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Nikolaeva/Tolskaya<br>A Grammar of Udihe

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## A Grammar of Udihe

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## Preface

This book is the first substantial reference grammar of Udihe (Udehe, Udeghe), a little studied language of the Tungus branch of Altaic. At present Udihe is spoken as a first language by about 100 people in the Russian Far East. The language lacks a standardized writing system, and is only occasionally taught in schools. This grammar describes the so-called Southern dialect of Udihe, spoken on the banks of the Bikin and Iman rivers. The Northern dialect, spoken on the banks of the Khor, Anyui and Samarga rivers, differs only slightly.

Most of the examples cited in the current study are the result of fieldwork conducted between 1989 and 1997 in the settlement of Krasnyi Yar on the river Bikin. They are largely excerpts from original Udihe texts. Others are sentences produced by native speakers either spontaneously or in response to questions posed in Russian by the linguist conducting the interview. Although the latter examples may not be spontaneous, we believe they nevertheless encapsulate an essential linguistic competence.

Although this study is not meant as a comparative grammar of the two Udihe dialects, we have also taken a few examples from the Northern dialect. They are used, firstly, to illustrate slight dialectal divergences, and secondly - if the dialects do not differ on the point in question - to provide particularly illustrative examples. Examples in the Northern dialect are taken from published materials, in which case the appropriate reference is provided. We have used the following abbreviations to cite some of the sources of the sentence examples, followed by the relevant page numbers.

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K = Kormušin (1998)
SK = Simonov and Kjalundzjuga (1998)
SKX = Simonov, Kjalundzjuga, and Xasanova (1998-1999)
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The materials of the Northern dialect are cited using a phonological transcription. This differs from the transcription originally used in the sources, which was partly phonetic and in most cases employed the Cyrillic alphabet.
Sentence examples are provided in phonological transcription with morpheme-by-morpheme glosses and functionally equivalent English translations. Words in the translations that are absent in the example are bracketed, except for personal pronouns. For the sake of economy, the personal pronouns, which are not marked for gender in Udihe, are all translated as 'he'. In the glosses the $1^{\text {st }}$ person personal pronoun is indicated as 'me'. Russian proper names, and other terms that remain untranslated, are cited in the international transliteration system, while local
names are transliterated into English as they are found in English-language geographical reference books. For polysemantic Udihe words the glosses give the meaning appropriate to the given context, so the same word may be glossed in several ways. For example, the Udihe word egdi may be glossed either as 'many' or as 'much', and the postposition edeisini may be glossed either as 'if' or 'when', depending on the context.

Morphemes are separated with hyphens in both the Udihe text and the glosses. Stems are glossed by English lexical words, while other morphemes are glossed with abbreviations of category labels. When more than one English word is required to translate a Udihe word, they are linked by a period. The grammatical category that is not expressed by means of a separate morpheme is not reflected in the glosses, partly for reasons of economy, and partly because the decision on the presence or absence of the morphological null may sometimes be controversial. However, when two separate morphs are contracted to one for phonological reasons, this is indicated by a period in the glosses. Thus in the following examples convention (a) will be used instead of (b), or (c).
(a) Sagdä-ŋi-mi mo: bede ute-ne:-mi (↔utene-e-mi). old-V-INF tree like rotten.tree-V.PAST-1SG 'I grew decrepit like an old tree.'
(b) Sagdä-ni-mi mo: bede ute-ne:-mi. old-V-INF tree:NOM:SG like rotten.tree-V:PAST-1SG
(c) Sagdä-ni-mi mo:- $\varnothing$ bede ute-ne:-mi. old-V-INF tree-NOM:SG like rotten.tree-V:PAST-1SG

The period is also used for those few "portmanteau" morphs that do not result from phonological contraction at the synchronic level, for example, -li <CC.SS> (Conditional converb, same-subject), and -lie <CC.SS.PL> (Conditional Converb, same-subject, Plural).

Examples that only make up a fragment of a sentence are glossed in arrow brackets. In the translations of some examples we have included a grammatical specification of the meaning in round brackets. This is not intended as a gloss, but rather to facilitate understanding of the translation, for example:
zugdi-tigi 'to the house (LAT)' or <house-LAT>
Unlike nominal stems, bare verbal stems are cited with a hyphen, for example $z u ̈:-$ 'saw' (a verb) versus zü: 'saw' (a noun). Embedded clauses are indicated by square brackets.

The grammar is intended to be a more or less comprehensive description. It follows the traditional structure: general introduction - phonology morphology - syntax - texts - vocabulary - indexes. Much use is made of cross-references between the various chapters and sections. The morphological description is organized around inflectional and derivational forms. The
functions of some of these may be addressed in separate sections within the corresponding chapters. The syntactic part is mostly organized around various syntactic units such as, for example, the noun phrase, relative clause, adverbial clause and so on, but in some cases we also follow the function-to-form approach.

The grammar is not biased towards any particular theoretical framework, although in several cases we choose to explain within the text the basis of the notions used in the description. The terminology is intended to be theoryindependent. The names of particular grammatical categories typical of Udihe are capitalized; adjectives derived from these, as well as general grammatical and semantic notions, are in lower case, for example, "Possessive suffix" (the suffix of the grammatical category Possessive) and "possessive construction", "possessive form", and "possessive meaning".

## Abbreviations

| A | Agent (semantic role) |
| :--- | :--- |
| ABL | Ablative case |
| ACC | Accusative case |
| ADJ | Adjectival derivational affix |
| AL | Alienable possession |
| AUG | Augmentative numeral |
| B | Benefactive (semantic role) |
| CAUS | Causative |
| CC | Conditional Converb |
| CIR | Circumstance (semantic role) |
| COL | Collective numeral |
| COM | Comitative |
| COND | Conditional |
| CONT | Contrastive focus particle |
| DAT | Dative case |
| DEC | Decausative |
| DES | Desiderative |
| DESN | Desiderative noun |
| DEST | Destinative case |
| DIV | Diversative |
| DIM | Diminutive |
| DIR | Directive |
| DIS | Disjunction |
| DIST | Distributive |
| DP | Destinative Participle |
| DUR | Durative |
| E | Essive (semantic role) |
| EV | Evidential |
| EX | Exclusive |
| EXP | Experiential |
| EXPR | Expressive |
| FOC | Focus |
| FUT | Future |
| FP | Future Participle |
| IC | Imperfective Converb |
| IM | Imperfective |
| IMI | Impersonal Infinitive |
|  |  |


| IMP | Imperative |
| :--- | :--- |
| IN | Inclusive |
| INC | Inchoative |
| IND | Indefinite pronoun |
| INF | Infinitive |
| INT | Intentional |
| INTN | Intensive |
| INTER | Interjection |
| INST | Instrumental case |
| HAB | Habitual |
| HORT | Hortative |
| L | Location (semantic role) |
| LAT | Lative case |
| LOC | Locative case |
| MULT | Multiplicative numeral |
| N | Nominal derivational affix |
| NEG | Negation |
| NOM | Nominative case |
| 0 | epenthetic vowel |
| O | Object (direct object) |
| ORD | Ordinal numeral |
| P | Patient/theme (semantic role) |
| PART | Partitive |
| PAS | Passive |
| PC | Perfective Converb |
| PERM | Permissive |
| PL | Plural |
| PP | Past Participle |
| PRES | Present |
| PROV | Pro-verb |
| PROL | Prolative case |
| PROP | Proprietive |
| PRP | Present Participle |
| PURP | Purposive Converb |
| REC | Reciprocal |
| REF | Reflexive |
| REP | Repetitive |
| RES | Resultative |
| REST | Restrictive numeral |
| S | Subject |
| SEM | Semelfactive |
| SING | Singulative |
| SUBJ | Subjunctive |
| SG | Singular |
|  |  |


| SS | Same-subject |
| :--- | :--- |
| V | Verb, verbal derivational affix |
| VOC | Vocative |

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## Plates



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2. Udihe women on the bank of the river Bikin

3. Nadežda Libatsanovna Martynova, a Udihe shaman

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5. Alexandr Egorovič Pionka with his wife


MAP 1: UDIHE CLANS

1. Xungake, 2. Uninka, 3. Xunka, 4. Bikinka, 5. Imanka, 6. Samarginka,
2. Namunka, 8. Kur-Urmi

## Chapter 1 <br> Introduction

### 1.1. The Udihe language and its genetic affiliation

Udihe (other spellings used are Udehe, Udegej, Udege, Udeghe, Udige, Udighe, Ude) is a Tungus language spoken as a first language by approximately 100 people, all over 50 years old, in the southern part of the Russian Far East (see 1.2.3 for more information on the number of speakers and 1.2 .4 on its geographical location). Udihe is divided into two dialects each with several local variants (1.3). Despite a lack of official status or written tradition, several attempts have been made to create a writing system for use in schools (1.6.2, 1.6.3).

The Tungus (Tungus-Manchu) language family is widely assumed to be a branch of Altaic. The scheme in (1) represents the classification of the Tungus languages as accepted in Vasilevič (1960) and Sunik (1962: 16-20, 1968: 54, 1997: 154). The alternative classifications either group together the Manchu and Southern Tungus languages (Cincius 1949; Benzing 1955: 9-10; Menges 1978: 370; Comrie 1981: 58) or treat Northern Tungus, Southern Tungus, and Manchu as three independent branches (Avrorin 1959-1961). On some other classifications and/or comparisons between them see Menges (1968: 25-30), Ikegami (1974), Doerfer (1978), Vovin (1993), and Miller (1994).
(1) Tungus-Manchu languages

Tungus languages
Northern (or: Siberian) group
Evenk, Even (Lamut), Solon, Neghidal
Southern (or: Amur, Nani) group
Nanai subgroup
Ulcha, Nanai, Orok
Udihe subgroup
Oroch, Udihe
Manchu languages
Manchu, Jurchen
The closest linguistic relative of Udihe is the Oroch language, spoken in roughly the same region. In fact, until the beginning of the twentieth century
the Udihe were thought to be part of the Oroch people, and were referred to as Orochs or Orochons (1.7.1). However, closer examination of the linguistic and anthropological data, as well as the oral tradition (see, for example, the collection of Oroch folklore in Avrorin and Lebedeva (1978)), suggests that they are in fact two different ethnic groups. On the phonetic and morphological correspondences between the Oroch and Udihe languages see Cincius (1949) and Kormušin (1998: 4-6).

### 1.2. The Udihe people

The modern Udihe live in settlements on the banks of the rivers of the Ussuri taiga. When first discovered, they were engaged in hunting, fishing, and the trading of furs (14.3). They subsequently took up agriculture, and in the second half of the twentieth century assimilated rapidly with Russian settlers, when their traditional way of life largely fell apart. However, elements of the traditional material culture survive, and many modern Udihe have retained animistic beliefs (1.4.5). Physically the Udihe are of Mongoloid anthropological type, and belong to the so-called Baikal type of the Mongoloid race. Certain southern (Manchu) anthropological components are also present.

### 1.2.1. The ethnonym Udihe

The Russian ethnographer Brailovskij was the first to suggest that the term Udihe be used as the official name of the people (Brailovskij 1901), see 1.7.1. It comes from the self-designation of the Udihe people in the northern dialect: udihe. In the southern dialect it corresponds to the word udie, from which originates another ethnonym sometimes used in the literature (Ude). On the different spelling variants see 1.1 .

The ethnonym udihe ~udie is of ancient origin and is attested in medieval Chinese sources (see Krušanov 1989 and references therein). However, its etymology is debatable. According to one opinion (Dolgix 1958), it goes back to the local hydronyms Ud, Uda, or Udil. Alternatively, it may be derived from the Jurchen udaga 'wild, barbaric, uncultured' (Arsen'ev 1916; Menges 1968: 130; Krušanov 1989). This name was used by Jurchens to refer to all the Tungus peoples of the Southern Primorje region who lived on the edge of the Jurchen empire (1.4.2). Is is also worth mentioning that phonetically similar tribal names are known for the neighboring Tungus peoples, for example, the Neghidal tribe Uddan, the Nanai tribe Udinka, and the Ulcha tribe Udi. Menges (1968) did not exclude the possibility that the component -dige/-dihe may be related to the Plural marker -ziga. Finally, Grebenščikov (1912) associated the
ethnonym Udihe with the name of a Manchu clan we-cze (wu-je) with the translation 'forest people', the idea being elaborated in Hiu Lie (1978).

### 1.2.2. Other names

When referring to the Udihe in the nineteenth century literature, the names Orochons, Oroches, and Tazes were mostly used. The term "Orochon", as well as the name of the related Tungus people Orok and Oroch, comes from the Tungus word oron 'reindeer' (Cincius 1977: 24-25). "Orochon" literally means 'reindeer-breeders' (-čen is a common Tungus suffix of Nomina actionis), although the breeding of reindeer was not an occupation characteristic of the Udihe.

The name Taz is used to refer to all groups of Udihe (for example, Brailovskij 1901). At present it is officially used only in connection with a group of people, numbering about 300 in the 1950s, who live in the Olginski district of the Primorje region. This group includes the Nanai and some of the southern Udihe, who have both undergone complete assimilation, first to the Chinese, and later to the Russians (Belikov and Perexval'skaja 1994). The ethnonym Taz goes back to the Chinese $t$ 'a cze 'aliens'(< Jü-pi T'a-cze 'fish skin aliens') (Menges 1968: 131) which the Chinese use to denote all the peoples of the Lower Amur.

The neighboring peoples refer to the Udihe by the various names cited in (2), after Krušanov (1989):
(2) people

Korean
Evenk
Nanai
Nivkh
Manchu, Nanai, Ulcha
name referring to Udihe
Olčan
Lamka, Lamunka
Namunka
Tozung
Kjaka, Kekar, Kjakar, Kjakala, Kjaxala

The ethnonym Kjaka, Kekar, Kjakar, Kjakala, Kjaxala, Kekal, etc. is known from Chinese sources, where it refers to the Tungus population of the Primorje region. It is also used to refer to one of the Oroch dialects. It most probably goes back to the name of a large Udihe clan, the Kä (see 1.2.5), and the common Tungus-Manchu stem xala 'family, clan, relatives' (Cincius 19751977: 459-460), see Krušanov (1989) and the references therein. According to another etymology (Menges 1968: 131) it may go back to the Nivkh kjeqär 'dwarf'. The words Lamunka and Namunka literally mean 'people living on the sea'.

### 1.2.3. Population figures

Exact data about the number of Udihe before the late nineteenth century is missing. It is known that the Udihe population was considerably reduced as a result of several epidemics in the second half of the nineteenth century (in particular the smallpox epidemic of 1877). The data of the official population censuses in the 20th century are presented in table 1 .

Table I. Population figures

| census | number of <br> Udihe in <br> Russia/the <br> USSR | number of Udihe <br> and Oroch <br> together | number of <br> speakers of <br> Udihe | number of <br> speakers for whom <br> Udihe is their first <br> language |
| :--- | :--- | :--- | :--- | :--- |
| 1897 |  | 2,407 |  |  |
| 1926 | 1,357 | 2,003 |  |  |
| 1959 | 1,444 |  | $937(63.8 \%)$ | $809(55.1 \%)$ |
| 1970 | 1,469 |  | $582(37.5 \%)$ | $480(31.0 \%)$ |
| 1979 | 1,551 |  | $528(26.2 \%)$ | $[100](5 \%)$ |
| 1989 | 2,011 |  |  |  |

No official data is available on the numbers who at present consider Udihe their first language. The number 100 is an informal guess (cf. 80 speakers suggested in Girfanova 1994).

On the sociolinguistic status of Udihe see 1.6.4.

### 1.2.4. Geographical location

In the nineteenth century the Udihe lived throughout a vast area between the rivers Ussuri and Amur, and the Sea of Japan. They live on the right-hand tributaries of the Ussuri (the Iman, Bikin, Khor, and Vaku), of the Amur (the Anyui and Khungari), and of the Tunguska (the Kur and Urmi), as well as on the sea shore and on some rivers that run into the Tatar Strait (the Samarga, Nelma, Edinka, etc.).

The Udihe no longer live in the coastal area, but are scattered over an extensive territory in the Khabarovsk region and on the Ussuri taiga, and in the northern part of the Primorje region. The distribution of the modern Udihe among the administrative regions is almost equal: in 1979 there were 660 people in the Primorje region and 609 people in the Khabarovsk region. Basically, the Primorje Udihe (with the exception of the Udihe from Agzu) speak the southern dialect, and the Khabarovsk Udihe the northern dialect (1.3.1). On the names of the Udihe villages, and the Udihe clans that live in them, see 1.2.5.

### 1.2.5. Udihe clans

In the nineteenth century, the Udihe used to live within eight territorial groups, each of which was subdivided into several clans. Most of the territorial groups took their name from the local river, adding the suffix - $\eta k A$. In the modern language this suffix still derives nouns with the meaning 'inhabitant of X ' (5.1.1.3). The tribal names are formed in the same way from the names of smaller rivers, or they may be formed with the Plural suffix -ziga (4.1.2.1). Nowadays these tribal names are used only as family names. According to Kormušin (1998: 6), the average membership of a clan was about 50 people.
Three of the territorial groups have ceased to exist, while the others are greatly mixed. The table below shows the territorial groups, the corresponding clans (clan names are given in transliteration from Russian), and the larger settlements of their modern descendants (adapted from Perexval'skaja 1994).

## Table 2. Udihe clans

| Group | territory | clans | modern settlements |
| :---: | :---: | :---: | :---: |
| Imanka | river Iman | Ajanka, Kja, Kjalunziga, Sigde, Kemenke | Vostretsovo, <br> Melnichnoye, <br> Novopokrovka, Dalni <br> Kut (Krasnoarmeisk district) |
| Bikinka | river Bikin | Ajanka, Kaza, Amaziga, Kimonko (moved from Khor), Suljajnziga, Suanka, Sigde (moved from Iman), Pionka, Kja, Kjalunziga | Krasnyi Yar, Yasenevyi, Sobolinyi, Luchegorsk (Pozharsk district) |
| Xunka | river Khor | Bese, Kimonko, Kjalunziga, Suljajnziga | Gwasyugi (Lazo district) |
| Uninka | river Anyui | Amulinka, Kimonko, Suljajnziga, Kjalunziga | Rassvet, Arsenyevo (Nanai district) |
| Samarginka | river Samarga | Ajanka, Kaza, Kamanziga, Kimonko (moved from Khor), Pudzja, Samanziga | Agzu (Ternei district) |
| Namunka | sea coast, Ternei district | Ajanka, Samanziga, Kja, Kemenke, Suljajnziga |  |
| Xungake | river Khungari | Amulinka, Kamanziga, Kanchuga, Kjalunziga |  |
| Kur-Urmi | rivers Kur and Urmi | Kjalunziga, Amulinka, Sigde | (Kukan) |

The Namunka and Khungake groups no longer exist, although they were mentioned by Schneider (1936) in the 1930s. Some of the coastal Udihe (the Namunka) assimilated to the Russians, while others moved to Bikin and joined the Bikin Udihe in the 1950s. Nothing is known about their language (or dialect). The Khungari group had apparently always been small, and assimilated to the Russian population. The Kur-Urmi group, which had always lived as close neighbors to the Nanai, Evenki, and others, is practically extinct as well: its only surviving members are two elderly brothers in the village of Kukan (Perexval'skaja 1994: 79).

There is some evidence that a small group of Udihe was found on Sakhalin island in the middle of the nineteenth century (see Podmaskin 1991: 3 and references therein), however, information about this is scarce.

### 1.3. Udihe dialects

Although there are so few speakers of Udihe, the language shows some dialectal division. Sunik (1968) noted that the divergence between dialects is significant, an idea that originated with the anthropologist Arsen'ev (19481949). In reality the divergences are minor (cf. Schneider 1936: 4) and the dialects are almost completely mutually intelligible. The greatest divergences are observed at the phonological and lexical levels (1.3.2), while the morphological and syntactic difference is insignificant.

Since there has been no standardization of the language, at present all the dialects have equal status. In the 1930s, when attempts were made to create a writing system, to publish textbooks and pieces of literature, and to teach Udihe in schools (see 1.6.2, 1.6.3), the Khor dialect was chosen as the standard literary language.

### 1.3.1. Dialect division

If we do not take into account the language of the two remaining speakers of the Kur-Urmi group (1.2.5), about which very little is known, the subdivision of the Udihe dialects may be represented as follows:
(i) The Southern dialect, that is, the dialect of the groups Bikinka and Imanka spoken in the Primorje region.
(ii) The Northern dialect, that is, the dialect of the groups Xunka, Uninka, and Samarginka spoken in the Khabarovsk region.

According to Sunik (1968: 231, 1997: 248), Girfanova (1994) and Simonov, Kjalundzjuga, and Xasanova (1998: 14), the main subdivisions of the Udihe dialects are as follows: (i) the dialect of Khor and Anyui; (ii) the dialect of Bikin and Iman; and (iii) the dialect of Samarga and Khungari. Kormušin
(1998) considers the language of Samarga, on the one hand, and of Bikin and Iman, on the other, as different local idioms of the same dialect. However, there are both linguistic and geographical reasons to believe that the language of the Khor, Anyui, and Samarga Udihe represents one dialectal system (cf. Perexval'skaja 1994) which differs in a number of linguistic features from the Bikin-Iman dialect (see 1.3.2). The Khungari group no longer exists (1.2.5).

### 1.3.2. Some divergent features of the dialects

### 1.3.2.1. Correspondence of the pharyngeal and laryngeal elements

The most important phonological difference between the dialects concerns the presence/absence of the postvocalic pharyngeal consonant $h$, which goes back historically to the intervocalic ${ }^{*}-s$ - (sometimes ${ }^{*}-x$-). This pharyngeal consonant is still preserved in the Northern dialect, although even there a tendency is observed to lose it (Kormušin 1998). The partial loss of the pharyngeal consonants was mentioned for the Northern dialect as early as Sunik (1968: 216). In the Southern dialect the pharyngeal consonant was lost with the compensatory lengthening of the preceding vowel; and as a result, secondary long vowels have appeared. Examples of the dialect correspondences are:

| Northern | Southern |  |
| :--- | :--- | :--- |
| ahnta | a:nta <br> imah | ima: |
| geh | ge: | 'snow' |
| imoh | imo: | 'bad' |
| imat' |  |  |

While the pharyngeal appears intervocalically in the Northern dialect, in the Southern dialect it falls out. The complex $V h V$ in the Northern dialect corresponds to a vowel cluster, or to a long vowel, cf.:

(4) | Northern | Southern |  |
| :--- | :--- | :--- |
| nühö | nüö $>$ nö: | 'sable' |
| ahikta | aikta | 'pine tree' |
|  | tehu | teu $>$ tu: | 'all'

The loss of the pharyngeal consonants in the Southern dialect has led to phonological changes in some grammatical morphemes. For example, the Northern subject agreement/possessive affix of the $1^{\text {st }}$ person Singular $-i$ and of the $2^{\text {nd }}$ person Singular -hi formally coincide in the Southern dialect (both sound $-i$ ). The Northern $2^{\text {nd }}$ person Plural inflection $-h u$ and $1^{\text {st }}$ person Plural

Inclusive $-u$ both correspond to Southern $-u$. In the Northern dialect the Past tense marker for verbal stems that end in a non-high vowel is $-h A$-, while in the Southern dialect the Past tense is marked by the lengthening of the stem-final vowel in this case (see 7.1.2), cf. the Northern olokto-ho-ni and the Southern olokto:-ni 'he cooked' (where olokto- is 'cook', -ho- is the Past tense marker, and $-n i$ is the $3^{\text {rd }}$ person Singular agreement marker). After $u$-final stems, the Northern Past marker -hA- (-he-) corresponds to the Southern -o:-, cf. the Northern bu-he-ni and the Southern bu-o:-ni 'he gave'.

Certain differences between the Northern and Southern dialects are also observed with respect to the realization of the laryngeal feature. Generally speaking, laryngealized ("creaky voice") vowels in the Southern dialect correspond to the complex "vowel+glottal stop". The system of correspondences is as follows:

| historical source | Northern | Southern |
| :--- | :--- | :--- |
| a. ${ }^{*}-k-$ | $a ?$ | ' $a$ ("creaky voice") |
| b. ${ }^{*}-s-,{ }^{*}-x-$ | $a h$ | $a:$ |

The Northern dialect thus preserves a more archaic system, where the laryngeal and pharyngeal elements, which historically go back to intervocalic consonants, are still consonantal segments. Note, however, that under a different analysis laryngealization and pharyngealization are realized even in the Northern dialect as vowel phonation types (for more information see 2.1.1.3.2).

### 1.3.2.2. Correspondences of affricates and sibilants

The Southern dialect has undergone a much stronger Chinese influence than the Northern (see 1.5.1). It has acquired more Chinese loanwords, and the phonological interference is stronger. In particular, apparently under Chinese phonological influence, the Southern dialect has developed alveolar affricates /c/ and $I z /$ instead of the original palato-alveolar affricates. In fact, as noticed in Kormušin (1998), alveolar pronunciation of affricates can also occur in some idiolects of speakers of the Northern dialect. The system of correspondences is as follows:
(6) Northern Southern

| 3 | $z$ | $<{ }^{*} 3$ |
| :--- | :--- | :--- |
| $\check{c}$ | $c$ (except before $i$ ) | $<{ }^{*} \check{c}$ |

The Northern palato-alveolar voiced affricate $/ 3 /$ corresponds to the alveolar non-anterior affricate $/ d{ }^{\prime} /$ in the dialect of Kur-Urmi (Elena Perexval'skaja, personal communication). Examples of dialect correspondence:
(7) Northern Southern
wakča
wač'a
zikte
zas'a
wakca-
wac'a
zikte
zas'a
'hunt' 'few'
'blueberry' 'cheap'

### 1.3.2.3. Lexicon

Examples of dialect divergences in the lexicon are in (8).

| Northern <br> moude | Southern <br> kuti | 'tiger' |
| :--- | :--- | :--- |
| mafa | songo | 'bear' |
| tali | wui | 'garden' |
| solodie | b'agdifi | 'hello' |
| xo:g3o | xo:ligi | 'yellow' |
| xu:-- | zü:- | 'saw' |
| ñog3o | ñoligi | 'green, blue' |
| bančau | olondo | 'ginseng' |
| utinge: | ugda | 'small boat' |
| kala | manguana | 'saucepan' |
| sañau | tuduze | 'potatoes' |

Sometimes the original Udihe word in the Northern dialect corresponds to the Chinese borrowing in the Southern dialect (see 1.5.1.2.1), while certain Northern words (for example xo:gzo 'yellow', or ñogzo 'blue, green') seem to be Nanai loanwords.

Idioms spoken on Samarga and Khor, on the one hand, and Bikin and Iman, on the other hand, have a number of local words unknown in another idiom within the same dialect. Some of them are mentioned in Simonov, Kjalundzjuga, and Xasanova (1998).

### 1.3.2.4. Morphology

The Northern dialect differs from the Southern dialect in the following morphological features.
(i) The absence of the marker -du- which in the Southern dialect serves as a $3^{\text {rd }}$ person Plural affix in some verbal forms.
(ii) The impersonal or Plural, in the interpretation of Schneider (1936) Infinitive formed with the suffix -mu (it is, however, present in some idiolects even in the Southern dialect, see 7.5.3.1.2).
(iii) The (same-subject) Perfective same-subject converb derived with the suffix -mdi/-mzi, for example, lagbana-mdi 'having stuck', za:-mdi 'having taken', te:-si-mdi 'having sat'(Kormušin 1998), yua-mzi 'having slept' (SK 671), dine-mzi 'having pressed' (SK 283).

| nene-mzi | zugdi-le | yeni-e-ni. |
| :--- | :---: | :--- |
| go-PC.SS | house-LOC | go-PAST-3SG |
| 'Having left she went home.' (K 177) |  |  |

Cf. the derivational nominal affix in the dialect of Bikin (5.1.3.15). These forms may ultimately go back to the Instrumental case of the Infinitive.
(iv) In the Northern dialect the Accusative remains morphologically unmarked under certain conditions (4.2.2.2); although this is also typical of the Southern dialect as well, in the Northern dialect the unmarked Accusative is far more regular.
(v) The Northern dialect possesses the special verbal forms in -t. They can be used as a same-subject perfective converb or as a finite verb, for example:

b. Sumu-we-ni käu käи zawa-t
sinew-ACC-3SG all all take-PC.SS
tagda-t sumu-we-ni. nigbi-nigbi
pull-PC.SS sinew-ACC-3SG strong-strong
tagda:-ni
pull.PAST-3SG
'Having taken hold of all his sinews, he pulled them very hard.'
(K 113)

| c.Gihe <br> other$\quad$ timana- $\boldsymbol{m i - n i}$ | mama |  |
| :--- | :---: | :--- | :--- |
| diga-la-ni | kiana | wah-t. |

'On the next day he killed an elk, so that the grandmother could eat.' (SKX 202)

Such forms typically express a sudden abrupt action. They are absent from the Bikin dialect.
(vi) On the difference in the formation of some types of numerals see 11.1.

Some other minor grammatical differences between dialects are mentioned in the text of the grammar.

### 1.3.3. The dialect described in the grammar

The present grammar is based on the Southern dialect of Udihe, namely the dialect of the Bikin Udihe as spoken in the settlement Krasnyi Yar (in 19891997). The settlement is located on the bank of the Bikin, the right tributary of the Ussuri, on its central stretch. It appeared in 1957 as a result of the integration of three settlements, Olon, Syain, and Metakheza. Later, some Udihe from Iman (the extinct settlement of Sanchikheza) also moved there.

Modern Krasnyi Yar is a multi-ethnic settlement. It numbers about 700 people, among whom about 455 (65\%) are from the various Tungus people (the Udihe, Nanai, Oroch, and Evenki). However, the exact number of Udihe among them is difficult to establish. Clearly, the number of ethnic Udihe is considerably less (probably, about 350), while only about a quarter of this number know the native language to some extent, and perhaps no more than 30 can be considered native speakers. Russian is apparently spoken by all Udihe, and generally by all inhabitants of Krasnyi Yar. About 10 people are trilingual Udihe-Chinese-Russian (normally ethnic Nanai who moved to Krasnyi Yar from the settlements Olon or Verkhni Pereval), and about 5 people are trilingual Udihe-Nanai-Russian. There is also a small group of native speakers of Chinese who do not know Udihe (ethnic Nanai).

The dialect used in Krasnyi Yar is also spoken in neighboring settlements in the Pozharsk district, such as Yasenevo, Sobolinyi, Verkhni Pereval, and Luchegorsk. So although the grammar describes the modern dialect of Bikin, the language it deals with may also reflect certain peculiarities of the dialect of Iman. In certain cases we also found it appropriate to refer to data from the Northern dialect, namely, the materials on the Khor dialect of Schneider (Schneider 1935a, 1936) and Simonov, Kjalundzjuga, and Xasanova (1998), and the Samarga materials of Kormušin (1998). The latter were recorded
between 1964 and 1974, while most of Simonov's materials were recorded between the 1960s and 1985.

### 1.4. Some remarks on Udihe history and ethnography

This section is meant to introduce some basic information about Udihe history and traditional culture, as well as to explain certain words that can be found in the Udihe examples throughout the grammar. The section is largely based on Krušanov (1989), Perexval'skaja (1994), Kormušin (1998), and Simonov, Kjalundzjuga, and Xasanova (1998).

### 1.4.1. Origin

The Udihe are not autochthonous in their present territory, but their origin is still disputed. Two hypotheses have been advanced: one is that their origin is to the north, the other that it is to the south of their present territory (cf. Podmaskin 1989). The Udihe and the Oroch bear conspicuously southern physical features, which stem from Manchuria and China. This has led certain scholars (Schrenk 1883; Brailovskij 1901; Schirokogoroff 1926; Arsen'ev 1948; Albert 1956) to the conclusion that the homeland of the Udihe is the territory of Manchuria or the border of Northern Korea.

The "northern" theory was first advanced by Sternberg (1933). He thought that the Udihe came to their modern territory from the Amur region, whither they migrated from a still more northern district. This view is confirmed by their cultural affinity to the Oroch, and their linguistic connection to other Tungus people. In particular, as was shown by Cincius (1978), Udihe and Oroch are closer to the Northern Tungus languages (Evenki and Even) than other languages of the Southern group. Kormušin (1998) argues that both Udihe and Oroch were originally Northern Tungus languages that underwent the substratum and contact influence of the Southern Tungus languages Ulcha and Nanai, as well as of Manchu. Certain archaeological evidence also suggests that the Siberian tribes penetrated into the Primorje region as early as the late Neolithic (the end of the $2^{\text {nd }}$ millennium BC) or the early Iron Age (the $1^{\text {st }}$ millennium BC) (Okladnikov and Derevjanko 1973). Since that time Tungus cultures have continuously been present in that region.

The oral tradition of the Udihe and the anthropological data also indicate a complex origin. There is reason to believe that the Udihe as an ethnos appeared as a result of the assimilation of a certain local population of unknown origin (probably the so-called Paleoasiatics) by Tungus tribes who came from the north to the modern Udihe territory. There may have been an Ainu component present in Udihe ethnogenesis (Lar'kin 1958: 7, cf. also Vasilevič 1960 on
possible linguistic contacts), and, according to some scholars, a perhaps Nivkh component as well.

### 1.4.2. Ethnic history

A more or less direct continuity can be traced between the modern Udihe and the Udihe of the southern Primorje region, who used to belong administratively to the so-called Golden Empire of the Jurchens (Manchuria, 1115-1234). The Jurchens-Udege were a settled people, having a well-developed culture. However, in 1233 the Jurchen Empire was overthrown by the Mongol invasion, and this led to the gradual disintegration of the Jurchen population. The ancestors of the Udihe were forced to escape from the Mongols to more northern territories, where they mixed with other Tungus tribes.

In the early seventeenth century the Manchu again won control of Manchuria and northern China. The Udihe, as well as the Nanai, Ulcha, and Oroch, are descendants of those Tungus people who lived in the Amur and Primorje regions, but did not enter the Manchu Empire. Accordingly, these people suffered from frequent and destructive Manchu invasions, which also contributed to the reduction of the population, the partial destruction of the original tribal system, and gradual assimilation. Until as late as 1858-1860 the Udihe territories were controlled by Chinese administors and traders (on contacts with the Chinese see 1.5.1.1), however, they were not formally part of the Chinese Empire.

In 1860 the whole Ussuri region was incorporated into the Russian Empire, and since then the Udihe territory has been part of Russia. In 1897 the territories of the Udihe extended to the southern tributaries of the Ussuri, and along the coast as far as modern Nakhodka. At that time the Udihe could also be found on the Khungari, the Tunguska, and the other tributaries of the Amur, as well as along the shore of the sea of Japan. The Northern border of the Udihe land was the river Botchi (Kormušin 1998: 3), which separated it from the Oroch territory. Until practically the beginning of the twentieth century the Udihe lived within several territorial groups (see 1.2.5) and had no common ethnic identity. Influenced by the Nanai, the first permanent settlements of the Udihe began to grow on the River Anyui as early as the nineteenth century.

More permanent Udihe settlements developed after the 1930s, when the forcible collectivization of households began. The process was completed in about 1937, and in the late 1950s the smaller settlements were integrated into larger multi-national villages. Resettlement caused many families to change their mode of living, for example abandoning hunting and turning to cultivation and animal breeding. This transformation was hastened by logging, which reduced the land available for hunting (especially in the Khabarovsk region).

This was also the reason for the constant resettlement of the Udihe from their native areas.

### 1.4.3. Traditional occupations

The main traditional occupations of Udihe were hunting and fishing. Unlike their neighbors, the Nivkh, Nanai, and other settled peoples on the lower Amur, the Udihe way of life was closely connected to the taiga forest. They used to hunt for deer, elk, boar, and smaller animals using bows and spears (later, guns) and different kinds of traps. The primary purpose of hunting was to gain furs and meat, though antlers were also sold to the Chinese. The Chinese also bought the root of the ginseng plant that grew in the Ussuri taiga. Searching for this plant was one of the important occupations of the Udihe.

Unlike other Amur peoples, fishing played a less important part in their life. A secondary role was also played by collecting edible plants, such as ferns, wild garlic and onion, various berries, and tree juice, as well as gathering certain other plants used for medical treatment. In the nineteenth century only the southern Taz group of the Udihe were involved in agriculture. They followed the example of the Chinese, tilling their fields in the coastal river basins. At the present time, agriculture is practiced by all Udihe groups.

Traditionally, only men were involved in hunting and fishing. The normal occupations of women were processing (braking) skin and leather (Udihe kaj-), making richly ornamented clothes (mainly traditional Udihe tege 'gowns' worn by both men and women) and boots from fur and skins, and making boxes and kitchenware from birch bark. Men used to make various wooden things (boats, sledges, some kitchenware, cradles) and small metal objects.

### 1.4.4. Way of life

Like most of the other peoples of Siberia, the Udihe were semi-nomadic. The constant search for new hunting territories necessitated a mobile lifestyle. The Udihe lived in widely dispersed family groups, and resettled often, according to the areas being hunted. In summer they lived in conical tents made of branches and tree bark, and in grass tents (aya, co:lo), in winter in rectangular houses made of tree bark (kawa) with the fireplace in the middle, as well as in earth-houses. Their mode of transport included two types of boats (the 'ana 'large hollowed boat with a flat nose' and the ugda 'small individual hollowed boat' often used while hunting), with sledges and skis in winter. The only domesticated animal was the dog, and no riding animals were known.

The Udihe used to live in family units with a patriarchal social organization. Although families used to live separately from one another, tribal
consciousness was extremely strong (see 1.2.5 on the names of the Udihe clans). The Udihe clans were strictly patrilocal; in marriage, the purchase or exchange of a bride between clans was widely practiced. Within every territorial group (1.2.5) there used to exist a division of 2-3 sub-groups, each of which included several clans. These sub-groups called $z a$ : in Udihe stood in exogamous relationship to each other (Krušanov 1989).

Individuals used to feel themselves members of the clan and not of the people (nation) in general. In practice, a man could not participate in social life without being part of a clan, could not get married, could not be protected by anybody, or have a hunting territory. Expulsion from the clan was therefore regarded as an extremely severe punishment. From the seventeenth century the original tribal organization began to be replaced by an organization based on territory (Podmaskin 1991: 4). However, the tribal consciousness is partly preserved. Of course many tribal customs (such as bride money or blood vengeance between the clans) are no longer practiced, but a certain mutual support between descendants of the same clan, and a half-hidden hostility towards representatives of other clans, can still be observed.

Since the Udihe did not undergo Christianization, their original anthroponymic system is preserved somewhat better than that of the other Siberian peoples. Traditional names are mostly based on kinship terms ( $\tilde{N}^{\prime} a ̈ z i g a$, literally 'the smallest child in the family'), certain individual qualities of a person (Alagdig'a, literally 'beautiful'), or "protecting" negative nicknames often referring to animals or negative qualities (G'aini, literally 'raven'), etc. (Podmaskin 1991: 37-38). At present, the Udihe have a first name, a patronymic, and a family name. For older people the first name may coincide with the traditional Udihe name, while the younger generation has Russian names. The family name normally goes back to the traditional tribal names (see 1.2.5).

### 1.4.5. Traditional beliefs

The traditional Udihe religion can be characterized as animism, coupled with the practice of shamanism. Like many other peoples, the Udihe represented the Universe as a layered structure with at least three levels. The upper world is inhabited by the sky people (bua ni:) and the gods (for example, Enduli the main god, Tagu-mama the God who sends children into the world, and Agdi the God of thunder). The lower world may itself have different layers, one of which is the place where people's souls go after their death (Bunige). The actual world corresponds to the middle world of the structured Universe, and as well as real people it is inhabited by numerous evil (ogzo, amba) and good spirits, and other supernatural creatures. Every animal or natural phenomenon (fire, river, water, etc.) possesses its own master spirit (cf. Puza fire spirit,

Oŋku mountain spirit, Ganixi water spirit, Olondo ezeni 'master of ginseng'). The bear and tiger were especially respected. The worship of their spirits was expressed in numerous hunting rites, rituals, tabooistic terminology, and prohibitions.

According to traditional animistic beliefs, the human soul descended from the upper to the middle world in the shape of a little bird (omö) and then existed as an invisible little man ( $x a \tilde{n}^{\prime} a$ ). After death it descended further into the realm of the dead in the form of a shadow, from where it could be reincarnated. In shamanic practice the soul of the shaman and/or his helping spirits also traveled through the different levels of the Universe. The most important function of shamans was to offer medical treatment.

In spite of the destructive influence of the socialist culture of the twentieth century, some elements of the animistic world outlook and the practice of shamanism are preserved among the older generation of Udihe.

### 1.4.6. Traditional folklore

The main traditional genres of Udihe folklore are teluyu 'legend' (the historical, shamanistic, or hunting legend), (n)imajku '(fairy) tale', and jexe 'song'. As distinct from teluru, (n)imayku is characterized by supernatural elements, by the use of certain words specific to folklore (for example, biatu 'bear' instead of the usual mafa), by some phonetic peculiarities, and by the use of traditional singing refrains. Typical characters found in the fairy tales (given here with very approximate translations) are jegdige or merge 'hero' (a brave young man, a good hunter), belie 'fairy' (a beautiful, clever girl or young woman, sometimes with supernatural powers), emende 'witch' (an ugly, lazy, and stupid girl or young woman), kanda mafa 'old man', and nauyzaka 'boy' (brave teenage boy, normally a younger brother of a belie). Many different musical genres were known, the lyric song being the most common. The Udihe used to play many string and wind instruments, the most important among them being the kuykai 'jaws harp'. Udihe folklore and its language is discussed in detail in Simonov, Kjalundzjuga, and Xasanova (1998).

### 1.5. The effect of language contacts on Udihe

At the present time, the Udihe do not have a single settled area. There are several ethnically pure Udihe settlements, and other settlements in which the Udihe are greatly mixed with the Nanai and to a lesser extent other Tungus people, as well as with Russians, Ukrainians, and some Chinese, Koreans, and Nivkh.

According to Belikov and Perexval'skaja (1991), throughout the last two centuries the Udihe territory was the location of a language area that included the following languages: Nanai, Udihe, Chinese, and Russian. This resulted in the process of pidginization, the most famous example of which is the emergence of the so-called Chinese-Russian pidgin, used at the end of the eighteenth century by Chinese and Russian traders and the local Tungus people (see, for example, Nichols 1980, 1986). According to this author, the dialect of Chinese-Russian pidgin spoken in the Ussuri area has undergone a secondary pidginization from the local Tungus-Manchu languages. The most striking example of a pidginization-driven phenomenon in Udihe grammar is the Past tense marker -lA (7.10.4.2). This marker can substitute (especially in the Iman dialect) for the regular Past tense without being followed by any agreement affixes. As argued in Perexval'skaja (1989, 1991e), this element is not original in Udihe, and presents a typical example of a so-called "double etymology": on the one hand, -le is a Perfective marker in Chinese, while on the other hand, $-l$ is the Past tense marker in Russian, so the exact origin of this element in Udihe is difficult to establish. If the Russian etymology is accepted, the vowel-final form $-l A$ in Udihe may be explained by the fact that Udihe does not generally allow consonant-final words (3.1.1), so -A- has here an epenthetic origin.

Menges (1968) also cites some hypothetical Korean and Mongolian loanwords in Udihe. The former are rare, and the latter were borrowed into Udihe through Manchu or other Southern Tungus-Manchu languages. Some Manchu etymologies are cited in 1.5.4. Certain plausible Nivkh parallels are mentioned in Kormušin (1998).

### 1.5.1. Chinese

### 1.5.1.1. Contacts with the Chinese people

Chinese-Udihe contact began through trade in the Middle Ages. Under the Ming dynasty (1368-1644) the Chinese gradually started building settlements in Udihe territories, and marrying local women (at that time Chinese woman were not allowed to leave the country). Until the second half of the nineteenth century the real rulers of the Primorje region were the Chinese traders of furs and ginseng, to whom many Udihe were hopelessly indebted. The relationship between the Udihe and the Chinese was generally hostile.

The Udihe acquired agricultural skills from the Chinese people, as well as such Chinese religious beliefs as could easily co-exist with their animistic world outlook.

The northern Udihe had fairly little contact with the Chinese people, but the influence of the Chinese on the southern Udihe groups was enormous. By the beginning of the twentieth century the most southern group (the Taz) had
become completely assimilated by the Chinese in their language and culture (see 1.2.2). The Chinese influence was strong among the Bikin Udihe and especially the Iman Udihe, for whom Chinese was the language of international communication. The children used to speak Chinese when outside the home, the native language only being spoken within the family. On the other hand, the local Chinese was influenced by the other languages of the area. Compared to standard Chinese, the local Chinese dialect is characterized by a reduced tonal system (two tones instead of four) and a much more limited vocabulary (Elena Perexval'skaja, personal communication).

### 1.5.1.2. Language contacts

### 1.5.1.2.1. Lexicon

We do not present here an exhaustive list of Chinese loanwords in Udihe, and further etymologies can be found in Menges (1968). For obvious historical-cultural reasons, Chinese loanwords in Udihe mostly fall into the following semantic groups: agricultural terms (11), household utensils (12), the requirements of modern culture and social life (13), cookery terms (14), kinship terms (15), and others (16). Below the translation of the Chinese word is given only if it differs from that of the Udihe word.

| Udihe <br> deuze <br> tuduze | 'beans' |
| :--- | :--- |
| cunge | 'potatoes' |
| sägguaza | 'onion' |
| sigua | 'melon' |
| gautu | 'watermelon' |
| xuangu | 'hoe' |
| zinmi | 'cucumber' |
| sandau | 'rice' |
| xuanmi | 'scythe' |
| 'millet' |  |
| la:mo: | 'mill' |

(12)

| jausu | 'key, lock' | jàoshi |
| :--- | :--- | :--- |
| zueze | 'table' | zhuōzi |
| deŋe | 'lamp' | dēng |
| co:クku | 'window' | cuängkön |
| säŋza | 'chest' | xiängzi |


|  | zipe | 'well (noun)' | jing |  |
| :---: | :---: | :---: | :---: | :---: |
|  | bayza | 'board' | bănzi |  |
|  | cuayza | 'kettle' | cháhú |  |
|  | la: | 'candle' | là |  |
|  | mayguana | 'pot, frying pan' | măn guàn | 'full jar' |
|  | keuzi | 'sack' | kŏu | 'mouth, opening' |
| (13) | хиесе | 'train' | huöche |  |
|  | fuetipe | 'plane' | feiji |  |
|  | $z a ̈$ : | 'money' | qián |  |
|  | рӧи | 'ticket, document' | piào |  |
|  | lauzi | 'worker, servant' | láo | 'work, labor' |
|  | тӥи | 'church' | miào |  |
|  | langui | 'counter' | gui | 'wardrobe' |
|  | guize | 'box' | guì | 'wardrobe' |
|  | tieze | 'money' | tiĕ | 'iron' |
|  | sänsei | 'teacher' | xiänsheng |  |
| (14) | bouze | 'steamed stuffed bun' | bāozi |  |
|  | sata | 'sugar' | sa-táng |  |
|  | sägza | 'stuffing' | xiāng | 'fragrant, scented' |
|  | lägcei | 'cold vegetables' | lëng | 'cold' + |
|  |  |  | cài | 'vegetable' |
| (15) | susu | 'father's younger broth | er' | shūshu |
|  | lauje | 'maternal grandfather' |  | lăoye |
|  | loulou | 'maternal grandmothe |  | lăolăo |
| (16) | xua | 'flower' | huā |  |
|  | zidi | 'purple' | $z i$ |  |
|  | kuaja | 'quick' | kuài |  |
|  | dunsi | 'thing' | dōngxì |  |
|  | sese bi:- | 'do one's best' | xixī̄n(de) | 'careful' |
|  | ganziya | 'clean' | gänjing |  |
|  | keje | 'language, word' | koŭyú | 'oral speech' |
|  | xeuze | 'monkey' | hóuzi |  |
|  | zaplana | 'cockroach' | zhangláng |  |
|  | sarxua | 'lunch, dinner' | cān | 'food, meal' |
|  | mo:go | 'mushroom' | mógu |  |
|  | gaja | 'steel' | gāng |  |
|  | ce: | 'carriage' | chē |  |

Chinese components are found in a large number of local toponyms, for example, dai (< dà) 'big', si (< xì) 'west', dun (< dōng) 'east', si (< shi) 'stone', bai (< bái) 'white', and sañ (< shān) 'mountain'.

Interestingly, for certain words lexical "doublets" are found when the original Udihe word co-exists with the Chinese loanword. See the following examples from the Bikin dialect: xua 'flower' (< Chinese) and Udihe ila: 'flower', deuze 'beans' (< Chinese) and Udihe tuli 'beans'; co: $\ddagger k u$ 'window' (< Chinese) and Udihe pa: 'window'. On the other hand, they may be distributed among dialects: cf. Northern xualibanza 'chipmunk' (<Chinese) and the native Udihe etungie 'chipmunk' in the Southern dialect; pauza 'roe' (< Chinese) in the Southern dialect and Udihe giusa 'roe', mostly used in the Northern dialect.

According to Menges (1968), certain Chinese words were borrowed into Udihe through Manchu: puza 'fire spirit' < Chinese fó-cze 'Buddha' through Manchu pusa; xu:ze 'Manchu robber' < Chinese hóng-hú-cze 'red beard' through Manchu xu $\boldsymbol{\eta}-x \bar{u}-z e$; koli 'law, custom' < Chinese gào-li 'high principle' through Manchu kōli.

### 1.5.1.2.2. Grammatical elements

The grammatical elements borrowed from Chinese are:
Plural suffix -ziga from the Chinese jĭ ge 'a few' (4.1.2.1);
additive focus particle $-d A(12.1 .1 .3)$ from the Chinese coordinator $d e$;
restrictive focus particle $m$ ' $e i$ (12.1.1.9) from the Chinese mei 'each, every';
universal quantifier teu (11.2.2.1) from the Chinese döu 'all';
additive focus particle xai(si) (12.1.1.1) from the Chinese hái 'still, as usual, yet';
superlative particle and degree adverb c'o (10.1.4.1) from the Chinese zui.

### 1.5.2: Russian

### 1.5.2.1. Contacts with the Russian people

The Udihe came into close contact with the Russians later than most Siberian peoples. The Udihe homelands were incorporated into Russia in 1860, and only then did Russians begin to appear. Russian peasants started to settle on the seashore sometime after 1883, but this colonization did not much concern the Udihe, who roamed deep in the forests. On the contrary, according to the observations of many travelers of that time, the Udihe attitude towards the Russians was remarkably friendly, since the Russians were displacing the exploitative Chinese traders. The Russian influence on Udihe folk culture was
also weaker than on other Amur peoples. The only Udihe greatly influenced by the Russians at this early date were those living near the sea (the Namunka).

The Udihe were not baptized, as were other Siberian peoples, and they traded with the Russians much less than they did with the Chinese. Russian was little spoken; contact with the Russians was normally in the Chinese-Russian pidgin (Nichols 1980, 1986). Russian was, however, the language of administration.

After the introduction of collective farms in the Soviet period (starting from the late 1930s) the influence of Russian has become more and more traumatic for Udihe language and culture. Its influence was exerted through a system of boarding schools, large multinational settlements, mixed marriages, etc. This led to a drastic deterioration in spiritual culture, reflected in a sharp decline in the number of native speakers of Udihe (see 1.2.3).

### 1.5.2.2. Language contacts

### 1.5.2.2.1. Lexicon

Udihe does not allow consonant-final words and tautosyllabic consonant clusters word-initially. Therefore Russian words ending in a consonant are borrowed in Udihe as vowel-final words ending with a vowel -A of epenthetic origin. As shown in 3.4.1.2, such a vowel is normally realized phonetically as $a$, see the example in (6a). However, the oldest $n$-final loanwords are borrowed into Udihe as a I-class $n$-final stems (for example, pisto( $n$ ) from the Russian piston 'percussion cap'). Word-initial consonant clusters are either separated by an epenthetic vowel (17b), or exhibit deletion of the first consonant (17c).

|  | Udihe | Russian |
| :--- | :--- | :--- |
| a.magazin-a <br> teatr-a | magazin <br> teatr | 'shop' |
| Iwan-a | Ivan | 'theater' |
| ris-a | ris | 'Ivan' |
|  | čaj-a | čaj |

The following phonological changes in Russian borrowings are also attested: (i) a change of prevocalic $p$ into $f(18 a)$, as is typical of original Udihe words as well (2.2.3.1); (ii) the replacement of the cluster $p k$ (or $f k$ ) by $k p$ (18b) (the
cluster $p k$ is prohibited in Udihe (3.2.1)); (iii) the replacement of the long palatalized consonant $\check{s c}$ and of $\check{c}$ by $s$ (18c).

|  | Udihe | Russian |  |
| :--- | :--- | :--- | :--- |
| a. | kanpetka | konfetka | 'candy' |
| b. | lakpa | lavka | 'shop' |
|  | kakpa | kapkan | 'trap' |
| c. | jaska | jaščik | 'chest, box' |
|  | bosko | bočka | 'barrel' |

Verbs are borrowed in the form of the Infinitive stem of the Russian verb augmented by the Udihe derivational suffix -lA- (see 8.1.1.3). This pattern is very productive:

```
Udihe
zawoni-la-
kopa-la-
samani-la-
karasi-la-
rubi-la-
tancewa-la-
nade-le
zari-la-
(kino) snima-la-
oxota-la-
```

Russian
zvoni- 'ring up'
kopa- 'dig'
samani- 'shamanize'
krasi- 'paint'
rubi- 'cut'
tancewa- 'dance'
nado 'must'
žari- 'fry'
snima- (kino) 'shoot (a film)'
oxoti- 'hunt'

### 1.5.2.2.2. Grammar

The modem Udihe use very many Russian words in their speech, and it is not clear whether these should be classified as loanwords or as phonological "quotations" from another language. Russian words are easily combined with Udihe grammatical morphemes. An example of such "macaronical" speech is the following sentence spontaneously produced by one of our informants (televizor and vkluči- are Russian words for 'television' and 'switch on', respectively):

Sikie televizora vekluči-la:-mi
evening television switch.on-V.PAST-1SG etete, timadule vekluči-la-isi ketu aja work morning switch.on-V-PC.1SG very good work-3SG 'I switched the television on in the evening and it did not work, in the morning I switched it on (again) and it worked very well.'

However, the influence of Russian on Udihe syntax at the structural level is surprisingly small compared to other minority languages of Siberia and the Russian Far East. The following points can be noted here:
(i) Younger speakers tend to follow the Russian word order. In particular, they place the focus object in a post-verbal position, which violates the major requirement of Udihe word order, namely, the preverbal position of the focus element (24.1.1). In general, the fact that verb-finality in modern Udihe is not rigid (24.1) may be due to the influence of Russian word order. The example below illustrates a non-head-final embedded clause generally disallowed in Udihe but which in this case appeared under Russian influence.

| Bagdi-mie bagdi-mie |
| :--- |
| live-INF live-INF |$\quad$| sa:-ni |
| :--- |
| know-3SG |$\quad$| namu tagiadi-ni |
| :--- |
| bi:-we-ni |
| be.PRP-ACC-3SG |
| 'He lived, lived, and learnt that there were seven girls on the other side |
| of the sea.' (SKX 216) |

(ii) Another violation of head-finality that may be due to influence of Russian word order is the postnominal position of proper name apposition (13.8.2) and the postverbal complement subordinate clause (Chapter 20).
(iii) Wh-words in Udihe are typically not used as subordinators, since clausal subordination is mostly expressed by non-finite verbal forms; their occasional use in this function, as in (22), is due to the Russian influence:

Ali ami-n(i) eme-gi-si-kce-i-we-ni when father-3SG come-REP-MUL-INT.PRP-ACC-3SG
tu: pala-wasi:-ni.
all distract-DIV-3SG
'When the father was going to come home, she distracted (her son).'
(iv) Certain sentence constructions may be influenced by the corresponding phenomenon in Russian, namely, the desiderative copular clauses with the Dative experiencer NP (17.2.3.2), the Impersonal construction (16.1.3), and the promotion of the nominal patient to the subject position in the Personal Passive clause (16.1.1).
(v) Cases of "semantic translation" from Russian may include the use of the interrogative pronoun jeu 'what' in tag questions, as in the meaning 'what for, why' (9.5.1.3), and the adverbial use of the universal quantifier teu 'all; all the time, always' (11.2.2.1.3).
(vi) Udihe has borrowed certain functional words from Russian (the conjunctions $i$ 'and', no 'but', $a$ 'and, but', and others) as well as many interjections.

### 1.5.3. Nanai

The history of the Nanai in the region in question is addressed in Sem (1976: 5-13). The Nanai lived on the banks of the Ussuri as early as the sixteenth century, and it was only as a result of the seventeenth century Manchu invasions that their population decreased. According to Sem, the Nanai appeared on the river Bikin at the end of the nineteenth century, when they moved there from the Ussuri. The Nanai in the Primorje region numbered about 300 people in 1970 (Sem 1976: 10), and spoke the so-called Bikin (or Ussuri) dialect.

The mutual assimilation of Nanai and Udihe as closely related languages is observed on the river Bikin. The variety of Nanai spoken there is influenced by Udihe (or perhaps by local Chinese) on the phonetic level. Compared to other Nanai dialects, it is characterized by the following features: (i) the alveolar affricates $/ d^{2} /$ and $/ c /$ instead of the palato-anterior $/ d^{z} /$ and $/ t^{s} /$, as in Udihe (1.3.2.2); (ii) the monophthongization of diphthongs (cf. the contraction of vowel clusters in Udihe, 3.2.2.2); (iii) the denasalization of nasal vowels; (iv) the deletion of final reduced vowels (cf. 2.1.5.3 for Udihe); (v) the epenthetic vowel that prevents consonant-final words (cf. 3.4.1.2 for Udihe); (vi) the deletion of the intervocalic $w$, as happened in the history of Udihe.

Certain examples of Nanai loanwords in Udihe are:
(i) dölbo- 'work' (in the Anyui dialect ) from the Nanai döbo (cf. Udihe etete 'work');
(ii) merge( $n$ ) 'hero' from the Nanai merge (cf. Udihe jegdige 'hero');
(iii) the component -xem in the compound particle dexem which forms indefinite pronouns with a universal meaning, $-d A$ is the Udihe focus particle (12.1.1.3) from the Nanai xem 'all'
(iv) banixe ~ banäxe 'thank you' is from the Nanai banixa: 'thank you' (cf. Udihe asasa 'thank you').
(v) mä:usa 'gun' through the Nanai mioča 'gun' (cf. the Udihe word mäunda 'gun' formed from the same stem as the original Udihe suffix -nda) from the Manchu mjočan 'gun'.
(vi) the word daysa 'book' is borrowed from the Chinese dàn-cze 'document, list' through the Nanai daysa 'book' (Cincius 1975-1977: 197).
(vii) The Udihe xaulie 'please' seems to be from the Nanai xawle 'anyhow, nevertheless'.

### 1.5.4. Manchu

On the relationship of Udihe with Manchu see 1.4.2. A Manchu origin for some Udihe words was suggested in Menges (1968, 1978: 369).

| Udihe |  |
| :--- | :--- |
| agba | 'state, country' |
| baita | 'fault' |
| zä: | 'money' |
| z'obo | 'difficult' |
| golo | 'land, country' |
| ninka | 'Chinese' |
| eze | 'master, chief, boss' |
| makta | 'praise' |
| menmu | 'silver' |
| palu- | 'exile, banish' |

Manchu
alban 'tribute, service'
bajta
zixa
3obo
golo
nikan
ezen
maktā-
mengun <Mongolian
fa-la- 'punish (in game)'

### 1.6. The status of the modern Udihe language

The Udihe language does not have an official status. It is used in everyday oral communication, in particular in family life, but normally only by elderly people. In the settlements Krasnyi Yar, Gwasyugi, and Agzu there exist so-called "national settlement councils" that are supposed to promote native culture and language. However, at present they deal at most with the economic needs of the native peoples.

### 1.6.1. Sociolinguistic status

As mentioned in 1.2.5, three groups of Udihe (the seashore Udihe, the Khungari Udihe, and practically all the Kur-Urmi Udihe) have been totally assimilated by neighboring peoples. The corresponding dialects are not preserved. The Anyui dialect is likewise almost extinct: in the late 1980s there were about 50 Udihe in the Rassvet settlement on the river Anyui, but some of them derive from those who moved from the river Khor (of the Gwasyugi settlement). Only a few old people remember the Anyui dialect. The Iman group of Udihe (about 100 people altogether) is dispersed among different settlements (see 1.2.5), and in all of them the Udihe are in an absolute minority, while the Russian population prevails. No data is available about the number of speakers of the Iman dialect, but it seems that a further assimilation of the Iman Udihe is inevitable.

At present only three territorial groups of Udihe live in compact groups. The Samarga group is concentrated mainly in the settlement Agzu, where, according to official census data, about 167 Udihe live (about $80 \%$ of the population of the settlement). However, most of the Agzu Udihe are not ethnically pure Udihe. According to Perexval'skaja (1994: 81), only about 120 persons ( $57 \%$ of the population of the settlement) represent the Samargian

Udihe ethnically, and among them only a few individuals still know the Samarga dialect. So the prognosis for survival of the Samarga dialect cannot be very optimistic.

The second settlement Gwasyugi includes about 160 Udihe ( $65 \%$ of the population of the settlement) representing the Khor group. This is where the Udihe language is best preserved. Not only the older generation but even the middle-aged normally have a good command of the language. Certain attempts are being made to preserve the language and national traditions, but this is limited to a few traditional branches of folk culture (leather, woodwork, and embroidery), as well as amateur folk art. At present the Gwasyugi settlement is the base of the amateur art group "Gäwa", the best known among the Udihe.

Thirdly, the 400 Udihe living in the neighboring settlements Krasnyi Yar and Olon ( $55 \%$ of the population of the settlements) represent the Bikin group and the Bikin dialect. Some work is in progress to preserve traditional culture, arts and crafts. There is a folklore group, and a museum of the Udihe people. However, the number of speakers of the Bikin dialect is definitely less than those knowing the Khor dialect. Here only a few people over about fifty years old still know the language.

In sum, most Udihe at present consider Russian their first language. In 1979 Russian was spoken fluently by as many as $94.1 \%$ of the Udihe, today this number is close to $100 \%$. In addition, $0.7 \%$ of ethnic Udihes speak a third language fluently (typically, Chinese or Nanai), as well as Udihe and Russian. Wherever the Udihe live today, the status of the Udihe language is much lower than that of Russian.

### 1.6.2. The teaching of Udihe

Schools for children were introduced in the late 1920s, with Russian being the language of instruction. Primary education in the mother tongue began in 1931, when the first school textbooks appeared in the Udihe language (the Khor dialect), compiled by Schneider (see 1.6.3). In 1931 the first Udihe teachers graduated from the Institute of the Northern Peoples in Leningrad. By 1936 the first two classes were supplied with textbooks in the native language, namely, the primary school book (Schneider 1932), the reading book for the first grade translated from Russian (Zulew 1933), the reading book for the second grade (Schneider 1934c), a grammar book for the first two classes (Schneider 1935c), and two arithmetic textbooks in Schneider's translation (Popova 1933, 1934), see also Schneider (1936: 3). Several manuals for teachers of Udihe were also published (Schneider 1934b, 1934c, 1935b).

Further work on textbook preparation was underway, but progress slackened in the late 1930s, as throughout the Soviet Union. In 1938 most of the books
already published were destroyed, the teaching of Udihe in schools came to an end, and Schneider himself was shot.

Since that time there has been no systematic teaching of Udihe, although there have recently been some attempts to introduce it as an optional subject. In the 1980s and early 1990s two courses in Udihe were taught in the kindergarten and primary school of the Agzu settlement, but both were discontinued. In the settlement Krasnyi Yar Udihe is still taught from time to time, but in an unsystematic way.

Some new teaching materials were recently created for the Bikin Udihe by Perexval'skaja as part of the "Udihe School" project sponsored by the Cultural Initiative Foundation (see Perexval'skaja 1989). These books, using a Cyrillic-based orthography, are designed for the kindergarten (Perexval'skaja and Tol'skaja 1991), and for the first grade (Perexval'skaja 1991a, 1991b, 1991c, 1991d). Unfortunately, a shortage of professional teachers means that they are only occasionally used.

In 1999 a publishing house in Khabarovsk published a primary school primer compiled in the Northern dialect by Valentina Kjalundzjuga (Kjalundzjuga 1999). This book uses the official Udihe orthography suggested by Simonov (see 1.6.3). Hopefully, the publication of this book will stimulate the interest in teaching and studying Udihe in schools. At the present stage, however, the prospects do not look very promising.

### 1.6.3. Orthography

The first Udihe orthography was compiled by Schneider in the 1920s on the basis of the Latin alphabet, and was used in several of Schneider's publications of school books (Schneider 1932, 1934a, 1934b, 1934c, 1935b), in reading books translated from Russian (Kulagin 1934; Čarušin 1935), in collections of Udihe tales (Schneider 1935a), and in a dictionary (Schneider 1936). Schneider's orthography was designed for the Northern dialect of Udihe. It was based on experimental phonetic work and the study of Udihe phonology (see 1.7.3), and seems to reflect the Udihe phonological system quite effectively. The orthography used the standard Latin alphabet with some additional symbols: schwa for the mid vowel (which we transcribe here as $e$ ), $\eta$ for the uvular sonant, $\boldsymbol{a}$ for the low front vowel ( $\ddot{a}$ ), $\boldsymbol{\theta}$ for mid front round vowel ( $\ddot{o}$ ), and 3 for the voiced affricate. The letter $y$ was used for the high round front vowel ( $\ddot{u}$ ), the symbol ' denoted laryngealization (the glottal stop), and vowel length was denoted by a horizontal stroke over the letter.

In 1938, as for the other minority languages of the USSR, the orthography based on Latin was transformed into one based on Cyrillic. Only one mathematics textbook was published in the new Cyrillic version, although it is no longer extant. The Cyrillic orthography of Schneider was used by the Udihe
writer Džansi Kimonko for his book Where the Sukpai flows written in the 1940s (Kimonko 1956) and translated from Udihe into Russian. His Cyrillic manuscript is still preserved.

There was another attempt to create a Udihe alphabet in the early 1980s. A Cyrillic transcription elaborated by Mixail Simonov, based on an experimental study of the Khor dialect (see Simonov 1988), was recognized in 1989 by the Khabarovsk authorities as the official orthography of Northern Udihe. This transcription was used in the large edition of Udihe folklore (Simonov, Kjalundzjuga, and Xasanova 1998) and the Udihe-Russian dictionary (Simonov and Kjalundzjuga 1998-1999). Simonov (1988) has rather greatly reinterpreted the system of vowels (see Chapters 2-3), and this is also reflected in his transcription and orthography. One formal difference between this orthography and other Cyrillic-based transcriptions lies in the notation for the pharyngealized (or: "intensive tense", in Simonov's terms) vowels typical of the Khor dialect (1.3.2.1): Schneider renders them with the symbol $h$, whereas Simonov uses circumflex-like diacritics. Simonov also records an $e$ instead of Schneider's schwa (as we do here) and does not recognize the vowels $\ddot{u}$, $\ddot{a}$, and $\ddot{o}$ as independent phonemes. Unfortunately, this orthography does not always indicate long vowels and vowels with the complex phonation type (laryngealized and pharyngealized).

An alternative Cyrillic-based Udihe orthography was created by Perexval'skaja for the dialect of Bikin as part of the project The Udihe School (1989-1993). It was accepted as the official orthography for the Southern Udihe by the Association of the Native Peoples of the Primorje Region in 1990, and is used in several schoolbooks and folklore editions (1.6.2). It basically goes back to Schneider's orthography, except that the author tries to follow Russian orthographic norms to make it easier for those Udihe children who can already read Russian. So vowel length is rendered not by a horizontal stroke but by an accent ("grave") in the same way as Russian stress, and the vowels $\ddot{u}$, $\ddot{a}$, and $\ddot{o}$ are rendered by the Russian "joticized" letters $r, \Omega$, and $\ddot{e}$ respectively.

Samples of various orthographies and transcriptions are presented in Chapter 25.

### 1.6.4. Literature

The only known professional Udihe writer was Schneider's student Džansi Kimonko (1905-1949). His book, Where the Sukpai Flows, written in the Udihe language, was translated and published in Russian (Kimonko 1956). Kimonko also produced some poetry in Udihe (Kimonko 1955; Simonov, Kjalundzjuga, and Xasanova 1998). The Khor Udihe Valentina Kjalunzjuga and the Nanai Nikolaj Dunkaj have taken part in collecting and recording
samples of folklore (Dunkaj 1961; Kjalundzjuga 1974; Simonov, Kjalundzjuga, and Xasanova 1998).

### 1.7. The study of Udihe

Although the Udihe are rather well described from an anthropological point of view (1.7.1), the Udihe language is perhaps the least studied of the Tungus languages. So far it lacks a comprehensive grammatical description and a dictionary exists only for the Khor dialect. The linguistic study of the Udihe language is addressed in 1.7.2 and 1.7.3.

### 1.7.1. Short survey of ethnographic work

The earliest information about the Udihe can be found in the 1850s in the works of occasional travelers and geographers such as Bošnjak, Nadarov, Maksimov, and others (see Krušanov 1989: 8-9 for a survey of the oldest sources on the Udihe). In the 1850s the ethnographer Schrenk conducted extensive work among the Tungus people of the Amur and Primorje regions (Schrenk 1883-1903). He produced the first classification of the Tungus people and languages. Stemberg was working on various Tungus people of the Far East, including the Oroch (1933), but did not write about the Udihe in particular. In the nineteenth century the Udihe were not generally distinguished from the Oroch.

Only towards the end of the century did Margaritov (1988), and especially Brailovskij (1901), who conducted the 1897 census, distinguish the southern group of Udihe from the Oroch. The River Botch was suggested as a boundary. Brailovskij (1901) created the first complete anthropological description of the Udihe, and was the first to use the term Udihe instead of Oroch or Orochon.

Although the use of the term "Udihe" was criticized, for example by the influential ethnographer Patkanov (1906) who proposed the term Kekar (see 1.2.2), the ethnonym Udihe was advocated by Vladimir Arsen'ev, the foremost specialist on Udihe culture. In 1916 he published a comparative work about the Udihe and the Oroch in which he showed that their cultures were significantly different (Arsen'ev 1916). This work also contains some linguistic comparisons between Udihe and Oroch. Arsen'ev, who spent many years among the Udihe in the first years of the twentieth century, collected much valuable information about the Udihe, as is reflected in his works, especially his book The Forest People Udihe (Arsen'ev 1948). But he had not completed a substantial study. Although most of Arsen'ev's materials are still unpublished, some appear in Simonov, Kjalundzjuga, and Xasanova (1998), together with an article on his work (see also the references therein). Arsen'ev's materials were used by Fridrich Albert in his ethnographical description of the Udihe (Albert 1956), in
combination with his own field materials dating from the beginning of the century.

In the second half of the twentieth century several different aspects of Udihe anthropology were studied. The most important works (those containing a representative bibliography) are the following: those of Starcev, dealing with history, material and non-material culture (Starcev 1996), those of Podmaskin on popular beliefs and customs (Podmaskin 1977, 1991), and the works of Smoljak on ethnogenesis and traditional culture (Smoljak 1980, 1984). Decorative art is studied in Bukatova (1972) and Osokina (1981), while musical culture and folklore are dealt with in Šejkin (1982a, 1982b) and Podmaskin (1987). Comprehensive ethnographic monographs on the Udihe are Lar'kin (1958), Krušanov (1989), and Perexval'skaja (1994).

It should be noticed that all the anthropological works contained a few Udihe words written in Russian (or Latin) transliteration. Only Arsen'ev tried to add additional symbols to render those Udihe sounds that did not exist in Russian (Arsen'ev 1926), although he was not consistent in this.

More detailed information on ethnographic work concerning the Udihe can be found in Simonov, Kjalundzjuga, and Xasanova (1998).

### 1.7.2. Nineteenth and early twentieth century dictionaries

During the nineteenth century practically nothing was written about the grammar of Udihe. The first attestations of the language date from the late nineteenth century and are of a lexicographical character. The following dictionaries and wordlists are the best known. The dictionary of Nadarov (1887), which contains about 250 words, appeared as a supplement to his ethnographic works. The Oroch dictionaries that include some Udihe material are those of the missionary Protod'jakonov (1888), which has about 1000 words, the dictionary of Margaritov (1888), which has about 400 words, and the dictionary of Leontovič (1896), which has about 2500 words. The most complete Udihe dictionary was that compiled by Brailovskij (1901), which contains about 1000 words placed alongside already published material about Oroch. The dictionary by Schmidt (1927) contains about 1000 Udihe and Oroch words. For further details see Simonov, Kjalundzjuga, and Xasanova (1998: 14-16).

### 1.7.3. Twentieth century linguistic work

Extensive linguistic work on Udihe was started by Schneider in the 1920s, who was also involved in developing school teaching and creating textbooks (see 1.6.2, 1.6.3). Schneider was the first to prepare a grammatical description of

Udihe, published as a supplement to his dictionary of the Khor dialect (Schneider 1936). The dictionary contains about 4200 words. Information on grammar is included in his books for teachers (Schneider 1934b, 1935b). A phonological description of the Anyui dialect supplemented by texts was published in 1937 but is only preserved in a few copies (Schneider 1937).

The phonological description made by Schneider was based on experimental phonetic work conducted in Leningrad with the participation of the experimental phoneticians Zinder, Matusevič, and Ščerba (see Schneider 1936; Kormušin 1998). This work, concentrating on the Khor dialect, revealed for the first time the presence of laryngeal and pharyngeal segments in Udihe. They were considered special types of vowels (see 2.2.2.3.2). The results of the experimental work were generalized in an unpublished manuscript of Zinder and Matusevič "The Phonetics of the Udihe Language", and were also used by one of these authors in a book on general phonetics (Zinder 1960). They are also a basis for the orthography developed by Schneider (1.6.3).

The phonological ideas and the transcription of Schneider were used by his student Elena Baskakova, who recorded folklore while working in Anyui and Samarga. Since she also was arrested in 1930s, the materials remained unpublished and preserved in the archives (some of them are published in Simonov, Kjalundzjuga, and Xasanova 1998). Since that time the same transcription has been used in all works on the comparative grammar of the Tungus languages, sometimes transliterated on a Cyrillic basis (Cincius 1949, 1975-1977; Novikova 1961, and others) or remaining in a transcription based on the Latin alphabet (e.g. Benzing 1956).

In the second half of the twentieth century Sunik conducted his own fieldwork among the Khor Udihe, which resulted in several short grammatical descriptions (Sunik 1958, 1968, 1997). He also used Udihe materials in his work on the comparative grammar of the Tungus languages (Sunik 1947, 1962, 1982). In respect of phonology, Sunik suggested three major modifications to the system of Schneider: (i) he treated Schneider's diphthongs, long vowels and pharyngealized and laryngealized vowels as biphonemic complexes; (ii) he introduced the opposition front-back for the high vowels: $/ i /$ and $/ i /, / u /$ and $/ i \ddot{ } /$, whereas in Schneider's description only $/ i /$ and $/ u /$ were present; (iii) he gave up treating long vowels as separate phonemes. On our interpretation of the vocalic system see 2.1.

The phonological approach of Sunik was developed in Kormušin (1998), where it was also motivated from a historical point of view; however, certain ideas (for example, concerning the non-phonemic status of long vowels) were rejected. See Chapters 2-3 for further detail.

Other linguistic works that deal specifically with Udihe are those of Girfanova on various questions of Udihe grammar and phonetics (Girfanova 1984, 1985; Atknin and Girfanova 1985) and specifically on verbal morphology (Girfanova 1988). Simonov (1988) suggested a new phonological
description that differed considerably from the conceptions of Schneider, Sunik, and Kormušin. His study is based on experimental phonetic work on the Khor dialect carried out in cooperation with Radčenko (see also Radčenko 1987, 1988). In recent years Simonov together with Valentina Kjalundzjuga, a Khor Udihe, and other colleagues published a large volume of Udihe folklore with ethnographic and folkloristic comments (Simonov, Kjalundzjuga, and Xasanova 1998) and a comprehensive three volumes Udihe-Russian dictionary of the Khor dialect (Simonov and Kjalundzjuga 1998). The dictionary additionally provides basic grammatical information. Other experimental-phonetic studies are Baicura (1978-9, 1989-91). The historical grammar of Udihe is quite poorly studied, exceptions being Menges (1968), Cincius (1949), and Kormušin (1998).

## Phonology

The phonology of Udihe is fairly typical of a language representative of the Uralo-Altaic language area. The phonemic system is characterized by the following features: voicing opposition for labial, dental and velar stops, and for the affricates, velar spirant $x$, palatalized $\bar{n}$, glides $w$ and $j$, velar $\eta$, and an eight member vowel system. The vibrant $r$ is highly marginal. Vowels have long and short counterparts. A peculiarity of Udihe phonology is that it exhibits a special class of "laryngealized" vowels phonologically opposed to regular vowels, which go back to the glottal stop and ultimately to the intervocalic *k. As distinct from regular short vowels, long and laryngealized vowels are associated with two moras and typically bear word stress. Vowel harmony is based on both height and rounding distinctions. High vowels are harmonyneutral.

An important syllabic constraint of Udihe is that it does not allow tautosyllabic consonantal clusters. Thus, clusters on word edges as well as three-consonantal clusters are ruled out. On the other hand, vocalic clusters, including those that have three vowels, are fairly frequent. In two-consonantal medial clusters, stops and affricates agree in voicing. Vocalic epenthesis prevents illegitimate consonantal clusters, as well as word-final consonants.

The stress is quantity-sensitive and falls on the most right bimoraic vowel or, in the absence of bimoraic vowels, on the most right vowel in the word. In affixes, word-final high vowels are extrametrical with respect to stress.

## Chapter 2 <br> Segmental phonology

The transcription used in this book is based on IPA, with the amendments described below. Certain conventions regarding the transcription of the allophonic variants accepted in this grammar are discussed in the appropriate sections.

### 2.1. Vowels

### 2.1.1. Inventory

The vowel inventory of the modern Southern dialects consists of 25 phonemes. The following types of vowels are phonologically opposed: short vowels (2.1.1.1), long vowels (2.1.1.2), and laryngealized vowels (2.1.1.3). The diphthongs mentioned by Schneider (1936) are treated here as biphonemic vowel clusters (see 3.2.2.2).

### 2.1.1.1. Short vowels

### 2.1.1.1.1. The system of short vowels

The system of short vowels includes eight vowels.
Table 3. Short vowels

|  | front |  | central | back |
| :--- | :--- | :--- | :--- | :--- |
|  | non-rounded | rounded | non-rounded | rounded |
| high | $i$ | $\ddot{u}$ |  | $u$ |
| mid |  | $\ddot{o}$ | $e$ | $o$ |
| low | $a$ |  | $a$ |  |

The symbols $\ddot{a}, \ddot{0}$, and $\ddot{u}$ are here used for IPA $æ, \phi$, and $y$, respectively. The vowel denoted here as $e$ corresponds to schwa in the transcription of Schneider and Perexval'skaja (1989 and other works) and to $\boldsymbol{э}$ in the Cyrillic-based transcription of Sunik (1968, 1997), Simonov (1988), and Kormušin (1998). As follows from the table above, it is a central non-rounded mid vowel, so its transcription as schwa is phonetically accurate. We choose to denote it as $e$
because this has been traditional among most authors dealing with the Udihe material, and it is convenient for technical reasons. On the phonetic realization of $\mathrm{le} /$, see 2.1.4.1.

The phoneme /ü/ is not recognized as such by Schneider, Sunik (1968, 1997), or Simonov (1988), although according to Schneider the vowel/u/ can be found within the diphthongs $\ddot{u} i$ and $\ddot{\ddot{u}}$ (Schneider 1936: 84). Kormušin notes that /ü/ is infrequent and only occurs word-medially (Kormušin 1998: 13-14). In most cases $/ u ̈ /$ is followed by another vowel, as in $u i i$ and $\ddot{u}$. Since Kormušin and this grammar treat vocalic clusters not as diphthongs but as biphonemic combinations of vowels (3.2.2.2), lül must be regarded as a separate phoneme. In the Bikin dialect there are certain words in which /iu/ occurs outside of vocalic clusters, for example: bogüso- 'torture', kuizü 'box, chest', lü-lü 'through (get wet)', sügmu 'dragon', sükpou 'a sharp stick for taking meat', tülo- 'get dirty', düce 'Chinese garlic', solügi 'orange', solümi 'dried fish'. For this reason it is assigned a phonemic status, although it is indeed marginal in the system of short vowels. In idiolects /ui/may be replaced by /i/: solügi ~ soligi 'orange', sükpou ~ sikpou 'a sharp stick for taking meat'.

The phoneme $/ \ddot{\partial} /$ is also infrequent, but it occurs more often than $/ u ̈ /$. Cf. the following minimal pairs:

$$
\begin{array}{lll}
\text { oloŋko } & \text { 'ford' } & \text { oloŋkë } \\
\text { sogdo }
\end{array} \text { 'steam' } \begin{array}{ll}
\text { sogd } \ddot{0} & \text { 'oak-tree' }
\end{array}
$$

### 2.1.1.1.2. Front mid vowel?

As mentioned in 2.1.1.1, the vowel here denoted as $/ e /$ is a mid vowel with central pronunciation. Other authors also mention a front mid non-rounded vowel, denoted as $e$ in Schneider (1936), Sunik (1968, 1997), and Kormušin (1998). Schneider actually discusses two short front mid vowels (/el and /ie/) and their long counterparts ( $/ e: /$ and /ie:/). Schneider's /e/ and short /iel, on the one hand, and the le:/ and 'long' lie:/, on the other, are each treated by Kormušin as a single phoneme. He shows that they do not contrast phonologically, and are close phonetically (Kormušin 1998: 14-15). So Kormušin's description includes short and long front mid vowels ( $e$ and $e:$ ) as well as the mid central short and long vowels.

In our opinion, there is no reason to assign a phonemic status to the front mid vowels. They are not opposed phonologically to other phonemes already present in the system, namely the front low vowel /äl and the diphthongoid $/ i e /$, respectively.

The short front mid vowel is, according to Schneider, infrequent. He recorded it in certain words where it precedes $/ \mathrm{ul}$ : geu 'oar', Geupka 'clan name', and geuka 'snag', and also in several words where it precedes /ä/, such as ameä 'back' (and its numerous derivatives), beä 'month', b'eäsa 'river', and

Duleä 'middle brother' (in his transcription). In the first case we have transcribed the cluster recorded by Schneider as eu with the notation äu, for example, gäu 'oar'. It may also correspond to io, cf. Gionka 'clan name'. Likewise, the cluster which Schneider recorded as eä appears to us, in the modern language at any rate, to be a long /ä:/ (bä: 'month', amä: 'back'). This can undergo secondary shortening, as in bäsa 'river' (see 2.1.1.2.3). In fact, Schneider himself treated the complex eä as a long vowel (not a diphthong), see Schneider (1936: 83).

Kormusin notices that the front mid vowel occurs only word-medially and word-finally (Kormušin 1998: 12). In the latter case it normally has a diphthongoid pronunciation (ie). In fact, in this case it is rather long, and develops as a result of expressive lengthening (2.1.5.2). It can be considered a diphthongoid /iel (2.1.1.2.1). Kormušin also cites two words where, according to him, the short word-medial $e$ developed from $/ i /$, but both are absent from the Bikin dialect. So there is no evidence for the presence of the short $e$, at least in the Bikin dialect. Within the vowel clusters it is not distinguished from /ä/, while when it appears word-finally it rather represents $/ i e /$.
As for the potential long /e:/, although Schneider cites it as a vowel phoneme it is not found in his dictionary (Schneider 1936). In all the cases where Kormusin has used $/ e: /$ we have found the pronunciation to be closer to the diphthongoid /iel, and it is so recorded in our transcription: for example, tie 'pair' is used for Kormušin's te:, and dieli- 'fly' for Kormušin's de:li-. Kormušin himself notes that /ie/ and /e:/ are positional variations of one long phoneme (Kormušin 1998: 15).

Thus, in our transcription Kormušin's /e/ will be recorded as /ä/, while /e:/, which is mostly pronounced as a diphthongoid, will be recorded as /iel.

### 2.1.1.2. Long vowels

### 2.1.1.2.1. The system of long vowels

Every short vowel has a long correlate, as in the table below; however, the long phoneme liel does not have a short counterpart (see 2.1.1.1.1).

Table 4. Long vowels

|  | front | central | back |  |
| :--- | :--- | :--- | :--- | :--- |
|  | non-rounded | rounded | non-rounded | rounded |
| high | $i:$ | ü: |  | $u:$ |
| mid | $i e$ | $\ddot{0}:$ | $e:$ | $o:$ |
| low | $d:$ |  | $a:$ |  |

The long vowel $/ \ddot{u}: /$, like its short correlate $/ \ddot{u} /$, is found in only a few words, such as kü: 'honey', sü: 'one year old boar', and $z u ̈:$ :- 'grind'. The front mid
long vowel is denoted as $/ i e /$ to distinguish it from the central mid long vowel le:/, and it does indeed have a diphthongoid pronunciation, see 2.1.1.2.2.

According to the experimental data, the long vowels are approximately 1.5 times as long as the short vowels (Radčenko 1988: 38), but they are pronounced slightly shorter in closed syllables. In his early work Sunik (1968) did not recognize long vowels and treated them as biphonemic complexes; see the criticism of this view in Kormušin (1998) and Simonov (1988: 54). Yet, in spite of the tendency for shortening (2.1.1.2.3), long vowels are present as independent phonological units, cf. the following minimal and quasi-minimal pairs that show the phonemic status of the long vowels:

| (25) | etete-mi | 'I work' | etete:-mi | 'I worked' |
| :---: | :---: | :---: | :---: | :---: |
|  | dili | 'head' | dili: | 'my head (1SG)' |
|  | ede | 'become' | e:de | 'blunt' |
|  | Ima | 'river Iman' | ima: | 'snow' |
|  | umu | 'belt' | u:mu | 'pile' |
|  | olo | 'here' | olo: | 'boiled fish' |
|  | bölo | 'knee' | mö:-lo | 'neck (LOC)' |

The stress placing rules (see 3.6.3.2) also clearly indicate that these are bimoraic vowel phonemes.

### 2.1.1.2.2. Diphthongoids

The long vowel /ie/ is in all environments pronounced as diphthongoid. It often appears as a result of the contraction of the short vowels $/ i /$ and $/ e /$ in the course of morphological derivation, for example, umi- 'drink' $+e$ (PAST) $\rightarrow$ umie-. The long vowel /ö:/ may often have a diphthongoid pronunciation $\ddot{\ddot{o}}$, and was recorded by Schneider as a diphthong in certain cases, for example, mö: 'neck' (< mü̈̈). The vowel /ä://, although normally going back to the diphthong $i \ddot{a}$, and recorded as a diphthong in Simonov (1988), seems to have lost the glide component in the modern Bikin dialect, and is pronounced as a monophthongoid. A word-initial $/ 0: /$ may be diphthongized and pronounced as ${ }^{u} o$. In a similar way, the initial /i:/ has a $j$-like component: ${ }^{j} \boldsymbol{i}$. (cf. 2.1.4.3).

### 2.1.1.2.3. Shortening

There is a clear tendency for long vowels to shorten. This tendency is reflected in free and idiolectal pronunciation variations, for example: abdä: and abdä 'leaf'. In some cases our records provide evidence of the process of vowel shortening. Schneider recorded a long vowel in the first syllable of the word bä:sa 'river', whereas the common modern pronunciation is for the first vowel
to be pronounced short, resulting in bäsa. This among other factors is indicated by the stress in that word, which now falls on the second syllable (if the first syllable were long, then it would bear the stress, see 3.6.3.2). Word-final long vowels that appear as a result of the contraction of two short vowels in the course of morphological derivation are regularly shortened in fast speech (2.1.5.3).

The long vowels that are found within grammatical morphemes do not typically shorten (for example, the long vowel that denotes the Past tense in the verb). However, the long /i:/ that developed as a contraction of two short vowels $/ i /$ at the boundary of the $i$-final verbal stem and the $3^{\text {rd }}$ Singular Present tense affix often undergoes shortening: igbe-si--ti (< igbe-si-iti <bath-IM-3PL>) 'they are bathing' $\rightarrow$ igbe-si-ti; eme-gi:-ni (< eme-gi-ini <come-REP-3SG>) $\rightarrow$ eme-gi-ni 'he is coming'. The long vowels that appeared by prosodic lengthening (2.3.4) do not shorten either.

### 2.1.1.3. Laryngealized vowels

Udihe possesses a special class of laryngealized vowels that are phonologically opposed to simple vowels. Laryngealization (or "creaky voice") is here a compound phonation type, characterized by complex articulation: one part of the glottis vibrates and produces voicing, while another part produces a creak.

Laryngealization causes a slight change in vowel quality. When laryngealized, non-front vowels tend to undergo partial fronting: $/$ ' $a$ / is almost identical phonetically to ['ä], l'ol to ['ö], and lel to ['e] (recall that the non-laryngealized $/ e /$ is a central vowel). This is confirmed by a preliminary instrumental-phonetic study of these vowels, according to which they show the consistent raising of the second formant compared to their non-laryngealized counterparts. Laryngealized vowels have a greater intensity and duration than short vowels and are phonologically bimoraic, as is indicated by the facts of stress placement (see 3.6.3.2).

Janhunen (1999) has suggested that the distinction between various phonation types in Udihe may be suprasegmental in nature. Four types of (Northern) Udihe vowels (short, long, laryngealized, and pharyngealized) may be characterized by four distinctive tones, which emerged under the influence of Chinese. This suggestion needs further investigation and will not be pursued here.

### 2.1.1.3.1. The system of the laryngealized vowels

Every non-high short vowel has a phonemic laryngealized counterpart. Laryngealization is denoted by an apostrophe before the corresponding vowel, for example: 'ana 'boat', tuk'ä 'run (PERF)', d'ofo 'inside', in'ei 'dog'. The
laryngealized vowel can precede another vowel, which is called a "laryngealized diphthong" in Schneider (1936), cf.: $\tilde{n}$ 'au 'hen', $k u$ 'ai 'ear', g'ai 'crow'. The high vowels $/ i /, / u /$ and $/ \ddot{u /} /$ never laryngealize, and neither does the diphthongoid long vowel /ie/. We also failed to find examples in which the vowel $/ \partial / /$ was laryngealized.
The inventory of laryngealized vowels is as follows:

Table 5. Laryngealized vowels

|  | front |  | central | back |
| :--- | :--- | :--- | :--- | :--- |
|  | non-rounded | rounded | non-rounded | rounded |
| high |  |  |  |  |
| mid |  |  | $e$ | $o$ |
| low | ' $\ddot{a}$ |  | $a$ |  |

The minimal and quasi-minimal pairs that show the phonological contrast between non-laryngealized and laryngealized vowels are presented below.

| (26)bono-ini 'hail (3SG)' b'ono-ini <br> bula 'catch up (3SG)'  <br>  'flat cake' bul'a | 'young ash-tree' |  |  |
| :--- | :--- | :--- | :--- |
| kua-i | 'plane, shave (2SG)' | ku'ai | 'ear' |
| kolo | 'beetle' | k'olo | 'mittens' |

The phonological contrast between laryngealized and non-laryngealized vowels is clearly seen in the opposition between the bare Present verbal stem and the $3^{\text {rd }}$ person Perfect form, since laryngealization of a stem-final non-high vowel is a marker of the Perfect tense (7.1.3.2):

| (27) | Present stem | Perfect |  |
| :---: | :---: | :---: | :---: |
|  | bunde | bund'e | 'add' |
|  | tukä | tuk'ä | 'run' |
|  | zawa | zaw'a | 'take' |
|  | oymo | oym'o | 'forget' |

It should be noticed that in the pronunciation of some speakers, especially those from the youngest generation, laryngealization is practically absent; nonlaryngealized vowels are pronounced instead.

### 2.1.1.3.2. The phonological status of laryngealization

There are two approaches in the literature to laryngealization in Udihe (the Northern dialect). First, the laryngealization was treated as additional phonation on the vowel. This conception was initiated by Schneider with respect to the Khor dialect. According to Schneider and his experimental data, laryngealized vowels (preryvistye, that is, 'interrupted' in his terms) are
pronounced with the glottal stop in the middle of the vowel duration, that is, for example, $/$ ' $a /$ is interpreted as [ $a$ ' $a$ ] phonetically. As a result, the pronunciation of the vowel is interrupted by a moment of a complete silence (Schneider 1936: 85). According to the experimental data of Zinder and Matusevitch (see Kormušin 1998: 20), the place of the articulation of the stop can vary among individual speakers without being opposed phonologically: it can be either a voiceless glottal stop or a voiced pharyngeal stop. The length of the vowel after the stop is approximately four time greater than the length of the vowel before the stop.

In a similar fashion, laryngealization is regarded as an additional suprasegmental feature of the vowel in Simonov (1988). In his conception, laryngealized vowels are called 'weakly-intensive interrupted' vowels (slabo-intensivnye otryvistye) and are characterized not by the glottal stop as such, but by a special articulation, namely, a change in the state of the pharynx: from tensed to not tensed. Such an articulation can be optionally accompanied by the glottal stop, especially in emphatic pronunciation. Simonov's conclusion is based on the experimental phonetic data of Radčenko (see Simonov 1988: 53; Radčenko 1988). According to this data, the glottal laryngeal (as well as the pharyngeal $/ \mathrm{h} /$ as present in the Northern dialect, see 1.3.2.1) can be of two types: in some cases it represents additional phonation of the vowel, while in other cases it can indeed correspond to a separate consonant phoneme (the glottal stop or laryngeal fricative). This later conclusion, although it may follow from the experimental data, is not supported by any purely phonological considerations.

On the other hand, certain scholars who studied the Northern dialect considered laryngealization as a realization of a separate consonant phoneme, a glottal stop. Similarly, pharyngealization in the Northern dialect was viewed as the separate consonant phoneme $/ \mathrm{h} /$. The glottal stop $/ \lambda$ and the pharyngeal $/ \mathrm{h} /$ as consonants are mentioned in Sunik (1968: 212, 1997) without any particular argumentation. According to this author, the glottal stop and the pharyngeal occur between two vowel phonemes of the same quality: $a$ ' $a$ and $a h a$. Kormušin (1998: 19-27) discusses this question in great detail. His conclusion on the consonantal character of the glottal stop is based mostly on its historical origin: the glottal stop / $\boldsymbol{\pi}$ goes back to the intervocalic $* k$ after the non-high vowels /ol, /a/ and /el (Cincius 1949b: 218-227). The complex $a^{\prime} a$ (or ' $a$ in the transcription of Schneider and in our transcription) is transcribed by Kormušin as $a^{\prime}$, that is, as a vowel followed by a glottal stop consonant. He also notices that the phenomenon Schneider described as an insertion of the glottal stop in the middle of the vowel is in fact the result of the inertial lengthening of the vowel followed by the glottal stop. It appears because the glottal stop cannot immediately be followed by a consonant for reasons of articulation.

As follows from 2.1.1.3, we share the first opinion, that is, we treat laryngealization as an additional feature of the corresponding vowel and not as a separate consonantal phoneme, at least for the modern Bikin dialect. Indeed
laryngealization goes back to the consonant ${ }^{*}-k$-, and it is not excluded that in the recent past (and perhaps in the modern Northern dialect as well) it was the consonantal glottal stop. However, historical origin cannot be an argument for phonemic status in the modern language, as Kormušin proposed. Our conclusion is rather based on the data of phonemic distribution. Although individually none of the arguments presented below prevents the treatment of the laryngeal as a consonantal element, in concert they considerably weaken such a hypothesis.
(i) The laryngealized vowel occurs in word-final position, for example: tal'a 'meal made of raw fish', gel'e 'he asked (PERF)', od'o 'grandfather', etc. If it is considered a consonant, as suggested in Kormušin (1998), the corresponding words should be re-interpreted as consonant-final (for example, odo') which contradicts the major phonotactic property of Udihe (3.1.1).
(ii) Similarly, if the glottal stop is regarded as a consonantal phoneme, this would mean that in certain cases three-consonantal clusters are present: ba'gdi (instead of b'agdi in our transcription) 'meet', ta'pti (instead of t'apti in our transcription) 'clay', xaña' $\eta k u$ (instead of $x a n ̃{ }^{\prime} a \eta k u$ in our transcription) 'mirror', etc. However, three-consonantal clusters are not otherwise possible in Udihe (3.2.1).
(iii) According to Kormušin, the glottal stop follows the vowel, as conditioned by its historical origin from an intervocalic *-k-. This means that it never occurs word-initially, although other consonants do.
(iv) The laryngeal opposition is limited to non-high vowels. If laryngealization were treated as a consonant, the fact that it never follows the vowels $/ i /$, $/ u /$, and $/ \ddot{i l} /$ would require some additional explanation.
(v) As Schneider had already pointed out (cf. also Simonov 1988: 53-54), the criterion for the mono-phonematicity of the laryngealized vowels is that they cannot belong to two different syllables. Thus, in the complex [a'a], the element 'a cannot constitute a separate syllable, as would be expected if the glottal stop were a separate consonant phoneme.
(vi) Finally, and most importantly, the laryngealized vowels behave as if they were bimoraic with respect to stress assignment, that is, they bear the primary stress (3.6.3.2). As argued in 3.6.2, coda consonants do not provide a mora in Udihe. If the laryngeal were a consonant it would be in a coda position in the syllable and would not project a mora. Therefore the attested stress pattern would remain unexplained.

The phonetic quality of laryngealized segments in the modern Bikin dialect also seems to suggest that we are here dealing with a special phonation type of the vowel rather than with the complex "a vowel + glottal stop". Although experimental study of the Bikin dialect has not been conducted, the auditory perception favors such an analysis. According to native speakers of the Bikin dialect, words with laryngealized elements are pronounced "differently" in their language compared to the language of the Khor and Samarga dialect. This might indicate that in the Northern dialect the glottal stop can indeed be
realized phonetically as a consonantal element, while in the Bikin dialect it is realized as a vowel phonation. But even for the Northern dialect Kormušin himself mentions that in swift speech the glottal stop is hardly present (Kormušin 1998: 24). Its presence is only noticeable by the laryngealized character of the preceding vowel. The glottal stop as such is only possible in slow speech when a speaker makes a deliberate attempt to highlight it.

### 2.1.2. Some remarks on the history of vowels

As discussed in Kormušin (1998), there are "primary" and "secondary" class vowels (osnovnye and neosnovnye in his terms). The primary vowels lal, lol, $|e|, / i /$, and $/ u /$ normally go back to the corresponding Proto-Tungus vowels (*a, *o, ${ }^{*} e,{ }^{*} i$, and ${ }^{*} u$, respectively). The primary vowels lack positional constraints, and appear more frequently than the secondary vowels $/ \ddot{i} /$, $/ a ̈ /$, and /ö/. The latter usually developed as a result of Umlaut-like changes in the quality of the primary vowel under the influence of the vowels in the following syllable (for example, $\ddot{a}<{ }^{*} i$, *a, etc.).

In most cases the original Proto-Tungus long vowels merged with the short vowels in Udihe (Cincius 1949b: 95-110; Menges 1968; Kormušin 1998: 5). In other words, the long vowels that underwent shortening serve as another historical source of both secondary and primary short vowels. Most of the long vowels present in the modern language are of secondary origin. The sources of secondary vowel length are as follows:
(i) the so-called "prosodic lengthening" of monosyllabic words (see 2.3.4);
(ii) in the Bikin dialect, the contraction that occurs with the pharyngeal $/ \mathrm{h} /$ (see 1.3.2.1);
(iii) historical contractions with other intervocalic consonants, such as $/ \mathrm{r} /$, $|g|,|j|, \mid w /$, for example: ga: < *gara 'bough', xu: < *xuwu 'saw', zo:- < *zogo- 'need';
(iv) the synchronic contraction of two identical vowels (2.3.1).

### 2.1.3. Allophonic variations

The short vowels $/ a /$ and $/ o /$ regularly change into $/ e /$ (phonetically, a schwa) before the high vowels $/ i /$ and $/ u /$, that is, within the vowel clusters, for example:

| zapta | 'arrow' | $\rightarrow$ | zayta-i | [zaytei] | 'my arrow' |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | zayta-u | [zayte-u] | 'your (PL) arrow' |
| oto | 'plate' | $\rightarrow$ | oto-i | [ote-i] | 'my plate' |
|  |  |  | oto-u | [ote-u] | 'your (PL) plate' |

This change is not reflected in the transcription used in this grammar.
The change of $/ a /$ and $/ o /$ into $/ e /$ before the high vowels only seems to take place in syllables other than the first; in the first syllable itself the original clusters ai, oi, au, and ou, are preserved, for example: aisi 'gold', daumi 'tobacco', pou-pou 'dark'.
Less regularly, the vowels $/ a /$ and $/ o /$ are pronounced as $/ e /$ when they follow the glide $/ j /$. This happens, for example, in the $2^{\text {nd }}$ Singular Imperative morpheme -jA: ana-ja ~ ana-je 'push (IMP.2SG)', daga-ja ~ daga-je 'burn (IMP.2SG)', oño-jo ~ oño-je 'write (IMP.2SG)'. Infrequently the vowel preceding $/ j /$ is also pronounced as lel, for example: zima-ja $\sim$ zima-je $\sim$ zime-je 'come to visit (IMP.2SG)'.

### 2.1.4. Free variations

### 2.1.4.1. The pronunciation of $/ e /$

The phonetic realization of the vowel/el is normally influenced by the quality of the other vowels within the word. When co-occurring with high vowels, the vowel $/ e /$ is pronounced as the narrower vowel $i$, for example: zile [ $z \nexists f$ ] 'anvil', neptige 'cartilage' [niptigf], etc. When /e/ is the only vowel within the word, it is usually pronounced as a wide (low) central vowel 3, for example: bede 'like', texe 'root', etc.

### 2.1.4.2. Alternation of high vowels

The high vowels $/ i /$ and $/ u /$ are often interchangeable. Normally the original vowel $/ i /$ assimilates to $/ u /$ if $/ u /$ is independently present in the adjacent syllable, cf. the following free variants: kuandugu and kuandigu 'ankle-bone', mun-tigi and mun-tugi (from mun-tigi) 'to us' <we-LAT>, also within the nominal suffix -gdugu/-gdugi (5.1.2.10).

The vowel $/ u /$ demonstrates a tendency to move to the front before the following $/ i /$, that is, often $u i \rightarrow u i i$. However, ui and $u i i$ contrast phonologically (see 3.2.2.1.1). A change into the front vowel often happens, for example, when the vowel $/ u /$ within the Dative morpheme $-d u$ is followed by the possessive affix $-i$ (1SG, 2SG, REF.SG): in'ei-du-i 'to my dog' <dog-DAT-1SG> can be realized phonetically as [in'ei-dü-i]. On the other hand, in the same environment the vowel /u/ can assimilate to /i/ completely, thus the pronunciation [in'ei-di:] (<in'ei-di-i) is also common.

The vowel /i/ may labialize if the word contains the vowel /ul, cf. lauli-mi ~ laulü-mi 'dancing (INF)', solümi ~ solimi 'dried fish', kuzi-mi ~ kuzü-mi 'bending (INF)'.

### 2.1.4.3. Dropping of the initial $/ j /$

The word-initial complex $j V$ is optionally replaced by the long vowel $/ i: /$. This is especially frequent in different forms of the interrogative pronoun $j$ 'eu and the pro-verb ja- (see Chapter 9), for example: $i$ :-le (< j'e-le) 'what (LOC)', $i:-m i$ 'why' from $j a:-m i$ (the Infinitive of the indefinite proverb). Cf. also $j i: n-\sim$ $i: n$ - 'enter'.

Less frequently the initial $/ j /$ is dropped before $/ u /$, which is fronted in this case: juøkala- ~ üŋkala- 'carry on a sledge'.

### 2.1.4.4. Labialization

For certain words the vowels $/ e /$ and $/ u /$ alternate freely in the first syllable, these are as follows:

| begdi | bugdi | 'leg, foot' |
| :--- | :--- | :--- |
| bebu | bubu | Evidential particle |
| meisi- | muisi- | 'think' |
| bubei | bubui | 'similar, alike' |
| wei | wui | 'garden' |

The presence of the round vowel/u/ instead of the original $/ e /$ seems here conditioned by the assimilatory influence of the adjacent labial consonant.

The vowel cluster $a u$ is optionally pronounced as $o u$, that is, $/ a /$ is labialized under the influence of the glide element, cf.: tauxi $\sim$ touxu $\sim$ touxi 'there', boulima ~ baulima 'corn', wa-u ~ wo-u 'you (PL) kill'.

The vowels $/ o l$ and $/ a l$ may be pronounced as $/ u /$ and $/ o l$ respectively in the position after $/ w /$, especially if they are followed by a high vowel, cf. wo-i wu-i 'makes (PRP)', wa-i ~ wo-i 'kill (PRP)', wa-ili § wo-ili 'he kills (3SG)'. Further reduction may lead to contraction into a long vowel: wo-ini 'he makes (3SG)' $\rightarrow o:-n i$ or $e:-n i$.

### 2.1.4.5. Reduction of word-final vowels

In rapid speech the word-final vowel may be deleted before the initial vowel of the next word, for example: omo aziga $\rightarrow$ om aziga 'one girl', solimi olokt'o $\rightarrow$ solim olokt'o 'he cooked dried fish'. As a result of such deletion two lexical words constitute a single phonological word with a single main stress (see 3.6.3 on stress placement rules).
$\begin{array}{ll}\text { a. } & \begin{array}{l}\text { Sagdi ede-ili } \\ \text { big become-3SG }\end{array} \\ \begin{array}{l}\text { 'He became big' }\end{array} \\ & \rightarrow \\ \text { sagded'eili }\end{array}$
b. bi a-wa $\rightarrow$ bäw'a
me that-ACC
'me that'
In (30b) the deletion of the word-final $/ i /$ leads to a change in the quality of the following vowel $a \rightarrow \ddot{a}$ with the regular palatalization of the preceding consonant (2.2.3.2). The same phenomenon is sometimes observed word-internally: sagda-li-e 'he grew up' <big-INC-PP> $\rightarrow$ sagda-lä.

### 2.1.4.6. Alternations of $/ i /$

In the word-final position the vowel /i/ in certain words undergoes a change in quality under the influence of the initial vowel of the next word. This, for example, is very typical of the demonstrative pronoun uti 'that', which may be pronounced as uta in the attributive function before an /a/ or $/ e /$ (uta aziga 'that girl', uta eni-ni 'that mother', uta eme-gi--si-ni 'when that one came' <come-REP-PC-3SG>). Cf. also: kotoi-ti eni-ni $\rightarrow$ kotoi-ta eni-ni 'the mother of the bald ones' <bald-3PL mother-3SG>.

In some other words the word-final li/ freely alternates with lal independently of position, for example: käfa ~ käfi 'tick', boulimi ~ boulima 'corn', jandasa ~ jandasi 'badger', agda ~ agdi ‘thunder', zala ~ zali ‘barn'.
In certain idiolects the short $/ \ddot{a} /$ is observed instead of original short $/ i /: b i \sim$ bä 'me', banixe ~ banäxe 'thanks', wopti ~ woptä 'door, lid', sagdi 'big, large' $\sim$ sagdä-ni- 'grow big'. Both vowels condition a partial palatalization of the preceding consonant (2.2.3.2). The variation in question is apparently related to the regular alternation $/ i / \sim / a / /$ observed in the Plural formation of some adjectives (6.1.2.1.1).

### 2.1.5. Stylistic variations

Certain variations are conditioned by the requirements of style and emphasis. According to Kormušin, we can even speak of three different registers (styles) of speech: normal, reduced, and expressive (Kormušin 1998: 52). This statement is perhaps too strong, since the difference between the styles concerns only a few phonetic points, namely, alternations of the vowel $/ i /$ and the pronunciation of vowel clusters (for the latter point see 3.2.2.1). The grammar describes the so-called normal style, while the so-called reduced and expressive styles are characterized by certain peculiarities mentioned below. In fact, the so-called reduced style predominates in the narrative texts.

In the examples throughout the grammar (except for the present section) the particularities of the reduced and expressive pronunciation are not marked, although they are noted in the texts (see Chapter 25).

### 2.1.5.1. Expressive diphthongization

The word-final $/ i /$ after a consonant may be lengthened into the diphthongoid liel (normally pronounced with a rising pitch, see 3.6.5) when the corresponding word is emphasized. According to the stress-placing rules (3.6.3.2), the diphthongoid $/ i e /$ is stressed in the word-final position.
a. Di:-za aya-nie b'agdi-e-mie four-ten year-3SG live-PAST-1SG omo-zie nuan-zi-ni. one-INST he-INST-3SG 'I lived for forty years with him alone.'
b. Kanda mafa gakti-e-nie. Kanda old.man freeze-PAST-3SG
'The old man Kanda got frozen.'
c. Weisi-ne-ze-fie!
rescue-DIR-SUBJ-1PL.IN
'Let us go to rescue (him)!'
d. Agda-mie sojo-li-ge.
be.glad-INF cry-INC-PERF
'He cried from happiness.'
e. Dian-a-mie yene:-ti zugdi-tigi.
say-0-INF go.PAST-3PL house-LAT
'They were going home talking.'
Expressive lengthening is regularly attested for the following forms: the Infinitive in $-m i$ (7.5.3.1) and the $3^{\text {rd }}$ person verbal affix $-n i$ (7.2.1). The corresponding word may be repeated twice. In these cases it may express the duration of time within which the action takes place:
a. Bi-mie bi-mie.
be-INF be-INF
'They were living, living'.
b. yene-mie yene-mie.
go-INF go-INF
'They are walking, walking'.
c. Ilisi:-nie ilisi:-nie.
stand-3SG stand-3SG
'He is standing, standing.'

In other cases expressive lengthening may render the intensity of the feature named by the corresponding word, either an adjective (33) or an adverb (34):
(33) Käya bui sagdie. deer animal big
'The deer is a very big animal.'
a. Wende-le caixie. throw-SEM far
'Throw (it) very far.'
b. Eke-zie tukä:-i! slow-INST run-IMP.2SG
'Run slower!'
c. B'azie eme-gi-je. early come-REP-IMP.2SG 'Come earlier.'

It is also frequent in addresses (see 12.2.1.2), especially in certain fixed expressions such as: sita-mie 'my son' <son-1SG>, b'ata baja-nie 'dear son' <boy deer-3SG>, gagda-nie baja-nie 'dear husband' <another-3SG dear-3SG>.

When the final /i/ follows a vowel, it is not lengthened into the diphthongoid /iel itself; the diphthongoid rather follows it. The segment $/ i /$ in this case appears in the syllable onset position and is realized as a consonant $/ \mathrm{j} /$ (see 3.2.3), that is, $V i \rightarrow$ Vjie. For example: kono-jie 'you get thin' (< kono-i <thin-2SG>); bi tekpu-jie 'my skin' (< tekpu-i <skin-1SG>). This also conditions the frequent variants of the $2^{\text {nd }}$ person Singular Imperative morpheme -i/j ~ -jie (7.4.1), for example: diga-i $\sim$ diga-je $\sim$ diga-jie 'eat' <eat-IMP.2SG>'.

### 2.1.5.2. Expressive lengthening

In certain cases the final $/ i /$ after a consonant is lengthened into $/ i: /$, especially in coordinating constructions where it can express continuous action.
a. Te:-mi: umi-mi: soktoi-mi: soktoi-mi.
sit-1SG drink-1SG get.drunk-1SG get.drunk-1SG
'I am sitting, drinking, getting drunk, getting drunk.'
b. Jaska-la-ni: kuizü-le-ni: galakta-i. chest-LOC-3SG box-LOC-3SG seek-PRP
'He is seeking (it) in the chest and in the box.'
In the expressive style the word-final /i/ may be followed by an Ich-Laut-type sound: imexi 'new’ $\rightarrow$ imexiç.

### 2.1.5.3. Reduction of $/ i /$

In rapid speech the word-final vowel $/ i /$ in the position after the consonant undergoes deletion. This leads to the emergence of consonant-final words otherwise forbidden by the phonotactic constraints of Udihe (see 3.1.1). The relevant contrast does not disappear, the vowel /i/ being preserved as a secondary articulation of the preceding consonant. The consonant preceding $/ \mathrm{i} /$, except for $/ \mathrm{m} /$, is palatalized (2.2.3.2). This mostly concerns the dentals $/ l /, \mathrm{ln} /$, $|s|$, $t \mid$, and optionally the labial $/ f \mid$, cf.:

| yene-ze-j | $\leftarrow$ | nene-ze-fi | <go-SUBJ-1PL.IN> |
| :--- | :---: | :--- | :--- |
| nixe:-m | $\leftarrow$ | nixe:-mi | <do-INF> |
| gagda-n' | $\leftarrow$ | gagda-ni | <another-3SG> |
| läs | $\leftarrow$ | läsi | 'very, a lot' |
| bi-s'e-s $^{j}$ | $\leftarrow$ | bis'e-si | <be-PERF-PC.SS> |

The consonant $/ s /$ within the disjunctive marker -As(i) ... -As(i) 'either ... or' (see 18.2.2.1) is not palatalized when the final vowel is dropped (a very frequent case), for example:

| Tuduze sagdi-es | nic'a:-s? |
| :--- | :--- |
| potatoes big-DIS | small-DIS |

'Is the potato big or small?'
Neither is palatalization present when the consonant which originally preceded /i/ appears before another consonant as a result of $i$-deletion. This second consonant may be within a clitic element, for example, a focus clitic $-d A$. This in fact constitutes an argument in favor of the inclusion of the clitic within a phonological word. Cf. examples (38a) where the consonant $/ n /$ is not palatalized after the deletion of $/ i /$ because of the assimilative influence of the non-palatalized $/ d /$ within the clitic, and example (38b) where the consonant $/ n /$ is palatalized because the phonological word boundary prevents the following $/ d /$ from influencing it.

$$
\begin{array}{ll}
\text { a. } & \text { belie-n-de (<belie-ni-de) }  \tag{38}\\
& <\text { fairy-3SG-FOC> } \\
\text { mö:-li-n-de (< mö:-li-ni-de) } \\
\text { b. } & \text { beck-PROL-3SG-FOC> } \\
\text { belie-n' }(<\text { belie-ni) dogdi: } \\
\text { fairy-3SG listen.PRP> } \\
& \text { 'the fairy is listening' }
\end{array}
$$ mö:-li-n-de (< mö:-li-ni-de) 'on his neck' (K 160)

When the 3rd person verbal inflection $-n i$ is followed by the disjunctive $-d A$ (18.2.2.1), the deletion of $/ i /$ is obligatory, but palatalization does not occur either, cf.:

| Nua-ni xauntasi-e-ni | Sonia skola-du |
| :--- | :--- |
| he-3SG ask-PAST-3SG | Sonia school-DAT |
| bi:-we-n-de | $e-i-w e-n-d e$. |
| be.PRP-ACC-3SG-DIS | NEG-PRP-ACC-3SG-DIS |
| 'He asked whether Sonia was at school or not.' |  |

The deletion of the word-final lil is often observed in infinitives that correspond to manner adverbs, for example: soyo-m $\leftarrow$ sono-mi 'crying (INF)', as well as in ideophonic adverbs (usually focused), for example: pukcel ${ }^{j} \leftarrow$ pukceli 'swollen'. In the latter case, consonant-final variants often lexicalize and become the only possible forms (see the list of ideophones in Chapter 26). The deletion of the verb-final $/ i /$ is fairly frequent in rhetorical questions (40a) or in the expression of fast or alternating actions (40b).

$$
\begin{array}{llll}
\text { a. } & \text { Ono } & \text { nixe-ze-m } & \text { bi? }  \tag{40}\\
& \text { how } & \text { do-SUBJ-1SG } & \text { me } \\
& \text { 'What shall I do?' } &
\end{array}
$$

b. Tukti-m tukti-m. climb-INF climb-INF
'He is climbing quickly.'
At least for one word, $i$-deletion in fast speech is regularly observed in the word-medial position: sta < sita 'child, son'.

### 2.2. Consonants

### 2.2.1. Consonant inventory

The consonantal system of the Southern dialect includes 17 phonemes.

### 2.2.1.1. System of the consonants

Only single (not geminated) consonants are phonologically present in Udihe. The system is presented below.

Table 6. Consonants
Labial Dental Alveolar Palatal Velar

| Plosives | Voiced | $b$ | d |  |  | $g$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Voiceless | $p$ | $t$ |  |  | $k$ |
| Fricatives | Voiced |  |  |  |  |  |
|  | Voiceless |  | $\boldsymbol{s}$ |  |  | $\boldsymbol{x}$ |
| Affricates | Voiced |  |  | $z$ |  |  |
|  | Voiceless |  |  | c |  |  |
|  | Nasals | m | $\boldsymbol{n}$ |  | $\tilde{n}$ | $\eta$ |
| Sonorants | Laterals |  | $l$ |  |  |  |
|  | Glides | w |  |  | $j$ |  |

The symbol $\tilde{n}$ represents IPA $\Omega, z$ stands for the voiced alveolar affricate $d^{z}$, and $c$ for the voiceless alveolar affricate $t$.

The voiced affricate $I z /$ may be pronounced as an affricate [ $d^{\chi}$ ], a dental fricative $[z]$ or the stop $d$, while the voiceless affricate $/ c /$ is always an affricate. The intervocalic glide /j/ sometimes has a semi-vowel articulation: aja or $a^{i} a$ 'good'. The word-initial stop $/ t /$ is aspirated before the back vowels $/ a /, / u /$ and $\mathrm{lo} /$. The lateral $/ \mathrm{ll}$ is slightly palatalized.

Simonov (1988: 55) also postulates the voiced velar fricative $\gamma$ (or the velar approximant) for the Khor dialect (see also Menges 1968: 138), however, there is no evidence for a phonological contrast between $g$ and $\gamma$ in the Southern dialect. On the spirantization of intervocalic stops see 2.2.4.5. The intervocalic $f$, represented as such throughout the grammar, is an allophonic variant of $/ p /$ (2.2.3.1).

### 2.2.1.2. Marginal consonants

Certain consonants are limited to a very specific lexical subsystem, namely ideophones and interjections, and are not therefore included in the consonantal system in 2.2.1.1. These are the consonants $h$ (41a), and especially $r$ (41b), and $\nu^{\prime}$ (41c). The latter two may be geminated in expressive speech.
a. $\quad s u ̈(h)$
b. mur-mur
borbosu
purk(e)
suar ~ suarr
xer-xer $\sim$ xeli-xeli
punärr
'shoo!'
'toothless'
'sound made by a hare'
'sound made by wings'
'babbling'
'very quickly'
'going up from the top of the house (of smoke)'

```
c. \(k \ddot{a} l^{j}-k a ̈ l^{j} \quad\) 'pale'
    sifal \(\sim \operatorname{sifal}^{j}{ }^{j}{ }^{j} \quad\) 'going up (about earth whipped up by the
    wind)'
```

The consonant $r$ is present within a few other words cited in Schneider's dictionary of the Khor dialect (Schneider 1936), sometimes freely alternating with $I l$, for example:

$$
\begin{align*}
& \text { ali } \sim \text { ari }  \tag{42}\\
& \text { alta } \sim \text { arta } \\
& \text { bultai } \sim \text { burtai } \\
& \text { olo } \sim \text { oro } \\
& -r A g d A, ~-r u g d u ~
\end{align*}
$$

```
'when'
'when'
'tin'
'forever'
'reindeer'
affix of de-numeral nouns
```

cf. also in the modern Bikin dialect the variants $d(u)$ rug'afa $\sim d(u)$ lug'afa 'in two, half' and eleči $\sim$ erči 'servant', as well as the Nanai loanword merge( $n$ ) 'hero'. The consonant $r$ here seems to have appeared as an expressive variant of $/ l /$. According to Kormušin, it has an apical articulation and is often voiceless (Kormušin 1998: 76). The word-final $l^{j}$ is typically the result of the palatalization of the corresponding non-palatal consonant after the deletion of the final il ( see 2.2.3.2).

The glottal stop $P$ as a separate phoneme is absent from the modern Bikin dialect (see 2.1.1.5.2). However, it may appear in idiolects as a free variant of $/ k /$ in certain consonant clusters (3.2.1.2) and in the word-final position within the suffix of the so-called Expressive Past (7.10.4.1).

Consonant gemination may sometimes be employed as an expressive tool, cf.: xoñieñie $\rightarrow$ xoñieññie 'very yellow', akki- 'sting, stab with a harpoon', čim $\rightarrow$ čimm 'streaming' (SK 770) and the following words from the Northern dialect: akku 'sting', nakki 'a kind of plant', and jakki 'wave'.

Recent borrowings from Russian may contain other consonants typical of Russian but not found in Udihe, such as $\check{s}$ and $\check{z}$.

### 2.2.2. Some remarks on the history of consonants

As a whole, the Udihe consonant inventory preserves the particularities of Proto-Tungus consonantism rather well. Apart from the change of certain intervocalic consonants into pharyngeal and laryngeal elements, on which see 1.3.2.1, the most important changes are the following:
(i) The original ${ }^{*} w$ - in the word-initial position is present in only one original word wa:- 'kill' (Cincius 1949b: 170). Otherwise the initial wappeared as a prothetic consonant, or developed from /ul (Kormušin 1998: 70). As noticed by this author, Schneider cites certain doublet forms with an initial $/ u /$ and $/ w /$ for the Khor dialect, such as uakta - wakta 'tree bark'.
(ii) The Proto-Tungus intervocalic $-{ }^{*} j-,-{ }^{*} g-,-{ }^{*} r$-, and $-{ }^{*} w$ - were lost, with a compensatory lengthening of the preceding vowel (see 2.1.2).
(iii) The Proto-Tungus palato-alveolar affricates ${ }^{c} c$ and ${ }^{*} d{ }^{*}$ correspond to the alveolar affricates $/ c /$ and $/ z /$ respectively.
(iv) The word-initial glide $/ j /$ usually has a prothetic origin and appeared before the original Ii/, cf. joxo < *ike 'pot' (Kormušin 1998: 79).
(v) The intervocalic $/ k /$ developed from the Proto-Tungus geminated ${ }^{*} * k k$ (Kormušin 1998: 81).
(vi) The velar fricative $/ x /$ is of secondary origin: word-initially it reflects the Proto-Tungus ${ }^{*} p$-, while in the intervocalic position and sometimes within a consonant cluster it goes back to -*k-.
(vii) The most typical changes in consonantal clusters are: ${ }^{*} n b>m,{ }^{*} p k>$ $k p, * l m>n m$, and the change of the consonant $* l$ into the velar $/ \mathrm{g} /$ or $/ \mathrm{kl}: * \mathrm{lb}>$ $g b,{ }^{*} l p>k p, * l g>g g>g$, etc.

### 2.2.3. Allophonic variations

### 2.2.3.1. Alternation $p \sim f$

Almost all intervocalic plosives are spirantized (see 2.2.4.5) but this varies among speakers. The only regular spirantization which leads to the development of an allophonic variant is the change $p>f$ in the intervocalic position. The consonant $f$ is treated as a separate phoneme in Schneider (1936) and Sunik (1968, 1997), and as a marginal phoneme in Kormušin (1998). Simonov accepts that $p$ and $f$ in Udihe are in complementary distribution (1988) but regards $p$ as an allophonic variant of $f$. We here employ a different solution, namely we regard $f$ as an allophonic variant of $/ p /$. This is mostly based on systemic considerations (the symmetry of the system of consonants).

The examples below illustrate the allophonic variants of the phoneme $/ p /$ : $p$ is word-initial and occurs within a consonant cluster (43a), and $f$ is in the intervocalic position (43b). Notice that here and hereafter we deviate from phonological transcription and record the allophonic variant $f$ when it is present.

| a. | pei | 'part' |
| :--- | :--- | :--- |
| zakpa | 'porridge' |  |
|  | paki | 'master' |
| kapta | 'parcel' |  |
|  | pa: | 'window' |
| igompo | 'bird cherry tree' |  |
| b.onofi <br> nifanda- <br>  <br> safani: | 'what sort of' |  |
|  | 'hit' |  |

In several words the intervocalic $-f$ - freely alternates with $-b$-, cf. lifakta $\sim$ libakta 'mud'. Furthermore, according to the general rule (2.1.5.3) the agreement affix -fi ( 1 PL IN ) may lose the final vowel. If it is followed by a consonant-initial clitic, the consonant within the agreement morpheme is pronounced as $/ b /$, cf.:
(44) Ge yeni-ze-b-ge.
well go-SUBJ-1PL.IN-HORT
'Well, let's go.' (K 197)
The word-initial $f$ and the intervocalic $p$ can be present only in certain recent borrowings from Russian or Chinese, for example:

| fuetine | 'airplane' | < Chinese |
| :--- | :--- | :--- |
| fabrika | 'fabric' | $<$ Russian |
| fuleye | 'southern' | < Chinese |
| kopala- | 'dig' | < Russian |

In more ancient borrowings the complementary distribution between $p$ and $f$ is preserved, cf.:

| (46)kofeika $<$ Russian kopejka <br> Pedä $<$ Russian Fedya$\quad$ propeck' |  |
| :--- | :--- | :--- |
|  |  |

In certain ideophones $f$ occurs in the word-final position, where it developed as a result of the deletion of the final vowel, for example: čif-čif 'wet through (with sweat)' cf. čifo-no- 'get wet'. Such ideophones may be followed by the clitic focus particle $-d A$, but the consonant $f$ is still preserved: def-def 'flapping its wings' + de (FOC) $>$ def-def-de (Simonov 1988: 74). For Simonov this is an argument in favor of treating $f$ as the underlying representation of the corresponding phoneme. However, in all other instances $f$ is realized as $p$ before a consonant, and a cluster that appears on the boundary between the word and the clitic cannot be considered a prototypical consonantal cluster.

### 2.2.3.2. Palatalization

Only the consonant $/ n /$ has a phonemic palatal counterpart $/ \tilde{n} /$ (see 2.2.1.1); minimal and quasi minimal pairs are presented below:

```
пати 'sea'
ne\etau 'younger sibling'
na: 'earth, ground'
```

ñamai 'warm'
ñeŋu 'wolf'
$\tilde{n} a \quad$ 'more, again'

However, $/ n /$ and $\mid \tilde{n} /$ do not contrast before the front vowels /i/, li:/, liel, löl, $/ \ddot{\partial}: /$, /ä/, and /ä:/ where only a palatalized $n^{j}$ is possible. In this case we transcribe it simply as $n$, for example: ninta 'man' [ $n^{j}$ inta], nö: 'sable' [ $n^{\prime} \neq: \ddot{:}$ ], nienesi 'get sweaty' [ $n^{j i}$ enesi], nä: 'skin' [ $n^{j} \dot{a}$ :]. Palatalization also occurs in the word anči 'no' [an'či], which contrasts to anci 'perhaps'.

Certain other consonants are allophonically palatalized before front vowels: the labials $|b|,|p|$, the dentals $/ s /,|l|$, and the velars $/ k|,|x|$ and $/ g|$. For example:

| bä: | 'month' | $\left[b^{\prime} \dot{a}:\right]$ |
| :--- | :--- | :--- |
| gida | 'spear' | $\left[g^{\prime}\right.$ ida $]$ |
| aisi | 'gold' | $\left[\right.$ ais ${ }^{\prime}$ i $]$ |
| uli-e-ni | 'sew' |  |
| tokö | 'cloud' |  |

The diphthongoid /iel causes the palatalization of every non-palatal consonant preceding it except $/ w /$, for example: umieni 'drink (PAST, 3SG)' [umien ${ }^{j} i$ ], dieleni 'because' [ $d^{i i}$ elen $\left.{ }^{j} i\right]$, tie 'pair' $\left[t^{j i} e\right.$ ]. Palatalization of this type is not reflected in our transcription.

In 2.1.5.3 we addressed the reduction of the word-final $/ i /$ that has led to the emergence of quite a few consonants that are distinctively palatalized.

### 2.2.3.3. Alternation $/ c / \sim / c \check{ } /$

The alveolar affricate $/ c /$ alternates with the palato-alveolar affricate $\check{c}$ before the front vowels $/ i /, / i: /, / i e l, / \ddot{\partial} /, \nmid \ddot{\partial}: /, / a ̈ /$, and $/ a \ddot{:} / /$. This alternation is reflected in the transcription throughout the grammar. Examples of words with $\check{c}$ are:

| čögki | 'juice of the tree' | čika- | 'gnaw' |
| :--- | :--- | :--- | :--- |
| anči | 'no' | činda | 'little bird' |
| čä:. | 'burbot fish' |  |  |

In a few words the change $c \rightarrow \check{c}$ is also observed before $/ u /$, for example: čuguse 'teal', čundie 'mole', Ka:nčuga 'clan name'. Before $/ o l$ and $/ a /, c$ is attested in ideophones and loanwords:

| čolon-čolon | 'limping' | čaja |
| :--- | :--- | :--- | :--- |
| guancou | 'spade' | 'tea' |
| časa | 'hour' |  |

See also a few exceptional words: ča:la- 'want, agree', čaza 'trap'. On the other hand, the alveolar affricate $/ c /$ may be present before $/ i /$ and $/ i: /$ in certain ideophonic words, such as cincaula 'large mosquito', ci:nge-ci:nge 'dangling'.

The allophonic variants $/ c / \imath / c \check{l}$ in the modern dialect reflect the phoneme $/ c /$, which in its turn corresponds to the Northern /c// (from Proto-Tungus ${ }^{c} \dot{c}$ ), see 1.3.2.2. They developed as a result of either the depalatalization of $/ c ̌ /$ before non-front vowels, or as a secondary palatalization of $/ c /$ before front vowels.

### 2.2.3.4. Velarization of $/ n /$

The nasal $/ n /$ changes into $/ \eta /$ in the position before $/ \mathrm{k} /$ and $/ \mathrm{g} /$. As a result, the consonant clusters $n k$ and $n g$ are not allowed (3.2.1.3), although the clusters $\eta k$ and $\eta g$ are fairly frequent. This alternation is present in the formation of the Past (7.1.2.2) and Perfect (7.1.3.2) of class II verbs that have an $n$-final stem. A stem-final consonant is represented by $/ \eta /$ before $/ k /$ :

| dian- | 'say' | Past stem <br> diaク-ki- | Perfect stem <br> diay-ka- |
| :--- | :--- | :--- | :--- |
| digawan- | 'feed' | digaway-ki- | digaway-ka- |

### 2.2.4. Free variations

### 2.2.4.1. Variation of $/ k /$

In a number of words the stops $/ k /$ and $/ p /$ freely alternate within a cluster when they precede $/ t /$ or $/ c /$, cf.: kekte- and kepte- 'lay down', wopti and wokti 'door', b'akta and b'apta 'smell', ukčiga and upčiga 'bird', xulepte $\sim$ xulekte 'ashes', cf. also the interdialectal correspondence tukti- (Bikin) ~ tupti- (Samarga) (K 172) 'climb'. The same alternation is observed within the Decausative affix -ktA-~ -ptA- (8.2.1.3).

The consonant $/ k /$ optionally spirantizes within the clusters $k t, k c$ and $k p$ in words with back vowel harmony. Examples: wakca- ~ waxca- 'hunt', gakpa ~ gaxpa 'shoot with an arrow', wokti ~ woxti 'door'. In certain cases the spirantization of $/ k /$ is observed in the initial position of words with back vowels: konz'oi ~ xomz'oi 'box, chest'.

### 2.2.4.2. Variation $/ s / \sim|x|$

In some idiolects the intervocalic $/ s /$ may be replaced by the velar fricative $/ x /$, at least in certain grammatical morphemes, for example: bi-si-ni $\sim b i-x i-n i$ <be-PAST-3SG>, eme-isi-ni ~ eme-ixi-ni <come-PC-3SG>, cf. also sita $\sim$ xita 'child, child'.

### 2.2.4.3. Variation $/ n /$ ~ /l/

Free variation between $/ l /$ and $/ n /$ is attested, especially, in the dialect of Iman. For example: banixe ~ balixe 'thank you', lali- ~ nali- 'starve', nifikti ~ lifikti 'cork', xunlepte ~xulepte 'ash', ninme- ~ linme- 'swallow', nuki ~ luki 'rope'. This variation is especially common for the $3^{\text {rd }}$ person Singular agreement marker -ini ~ -ili in the Present tense, for example: yene-ili 'goes', b'a-ili 'finds', gulin-e-ili 'leaves'. The variants with the agreement marker -ili are reflected in the texts (Chapter 25).

### 2.2.4.4. Loss of initial $/ \eta /$ and $/ n /$

The word-initial nasals $/ \eta /$ and $/ n /$ may be optionally lost before $/ i /$ and $/ u /$, cf.: nic'a ~ic'a 'small', nim'ayku ~ im 'anku 'tale', nixe- ~ ixe- 'do', yumnigele- ~ umnigele- 'screen oneself with a hand from the sun'.

### 2.2.4.5. Spirantization of intervocalic stops

The voiced stops $/ b /$ and $/ g /$ in the intervocalic position commonly undergo (partial) spirantization: $b \rightarrow \beta, g \rightarrow \gamma$, for example: obo [oßo] 'part', uga [uүa] 'voice', mogolie [moyolie] 'around'. According to Kormušin (1998), in the Northern dialect the intervocalic velar stop may completely sonorize. Spirantization of the intervocalic $/ \mathrm{g} /$ in the Southern dialect is often observed in the Lative case affix -tigi (see 4.2.2.4). Further development may lead to the complete loss of the intervocalic consonant, as happened, for example in the words dian- 'say' as pronounced by most speakers (cf. digan- in Schneider (1936)), suese 'axe' (cf. suyese ~ sugese in Kormušin (1998)), and siguli 'squash' (cf. sizuli ~ siuli in Kormušin (1998)). As mentioned in 2.2.1.1, Simonov (1988 and other publications) considers $\gamma$ a separate phoneme, but there is no evidence for this in the Southern dialect.

### 2.2.4.6. Deletion of $/ j /$

The intervocalic consonant $/ j /$ tends to be deleted before $/ i /$. This happens in particular in the affixes of the Present Passive particles -uji (for example, wa-uji or wa-u-i 'being killed'), cf. also buji and bui 'animal', weji and wei 'twenty'. In fact, in the modern language the pronunciation without $/ \mathrm{j} /$ predominates. At least historically, deletion of the intervocalic $/ j /$ was also present before other non-back vowels, cf. the personal pronoun bue-ni 'he/she' (9.1.1) that developed from the $3^{\text {rd }}$ person Singular possessive form of the noun meaning 'body' beje-ni.

### 2.3. Phonological alternations

### 2.3.1. Contraction of high vowels

In the course of derivation, two identical high vowels contract into a long vowel: $i+i \rightarrow i$ :, $u+u \rightarrow u$ : In word-final position, the contraction into /i:/ happens mostly when an $i$-final case affix (Prolative, Ablative, Lative) or stem is followed by the personal affixes of the $1^{\text {st }}$ and $2^{\text {nd }}$ person Singular or Reflexive Singular (52a). The contraction into $/ u: /$ occurs when the $u$-final stem or case affix (Dative) is followed by the 2nd person Plural or 1st person Plural Exclusive possessive marker -u (52b). The same alternations are typical of the declension of personal forms of participles (7.9.1).

| a. |  | $\leftarrow$ | dili-i | 'my head' |
| :---: | :---: | :---: | :---: | :---: |
|  | igi: | $\leftarrow$ | igi-i | 'self's tail' |
|  | <tail-REF> |  |  |  |
|  | xokto-li: <br> <road-PROL-2SG> | $\leftarrow$ | xokto-li-i | 'along your road' |
| b. | kodu: <br> <son.in.law-2PL> | $\leftarrow$ | kodu-u: | 'your son-in-la |
|  | keudidu: <br> <sack-DAT-1PL.EX | $\leftarrow$ | keudi-du-u | 'in our sack' |

The contraction is observed only when the word-final high vowel is stressed (on the stress rules see 3.6.3). An unstressed high vowel does not contract. When the stress falls on a non-final bimoraic vowel (3.6.3.2) the contraction is absent and the word ends in a short vowel, cf. (53a) and (53b). In the following examples stress is marked by the symbol '.
$\begin{array}{ll}\text { a. } & \text { dili: } \\ \text { b. } & \stackrel{\text { eme-isi }}{\leftarrow} \stackrel{\leftarrow}{\leftarrow} \\ & \text { <come-PC-1SG> }\end{array}$
a:nta-tigi $\leftarrow \quad$ 'a:nta-tigi-i 'to your woman'
<woman-LAT-2SG>
kawa-tigi $\leftarrow \quad$ kaw'a-tigi-i 'to your tent' <tent-LAT-2SG>

Note that in careful pronunciation contraction may be absent, while in the reduced style of speech long vowels are regularly shortened (see 2.1.1.2.3). Thus, three alternative pronunciations are in principle available.

|  | normal | reduced | careful speech |
| :--- | :--- | :--- | :--- |
| dili-i 'my head (1SG)' | dili: | dili | dilii |

In word-medial position, the contraction $i+i \rightarrow i$ : is common when the $i$-final verbal stem is followed by the $i$-initial agreement affixes -ini (3SG PRES) and -iti (3PL PRES): eme-gi-ini <come-REP-3SG> $\rightarrow$ eme-gi:-ni 'he returns', ise-si-iti <see-IM-3PL> $\rightarrow$ ise-si:-ti 'they are looking'. In line with a general tendency for shortening (2.1.1.2.3), the long vowels developed through contraction may be shortened in fast speech.

When an $i$ - or $u$-initial affix follows a vowel cluster that ends in a high vowel, the contraction is typically absent in fast speech: bi in'ei (< in'ei-i) 'my dog (1SG)', bu zeu (< zeu-u) 'our food (1PL.EX)'. In more careful pronunciation, however, the final vowel may be lengthened, cf.: xui: (< xui-i) 'is boiling (PRP)', mui: (<mui-i) 'my horse (1SG)'.

### 2.3.2. Labialization of $/ e: /$

The long /e:/ that appeared as a historical contraction with the pharyngeal -*hwithin the Past tense marker $-h A-\left(<-^{*} s a-\right)$ is labialized after $u$-final verbal stems: aju- 'love' + PAST $\rightarrow$ aju-o:- (< aju-e:- < aju-he-); akpu- 'sweep' + PAST $\rightarrow$ akpu -o:- (< akpu-e:- < akpu-he-).

When the stem-final $/ u /$ is preceded by another vowel or is long ( $/ u: /$ ), it appears in the syllable-initial (onset) position before the following $/ 0: /$ and is realized as the consonant $/ w /$, cf.: dau- 'cross the river' + PAST $\rightarrow$ daw-o:- (< dau-o:- < dau-e:- < dau-he-); eu- 'go down' + PAST $\rightarrow$ e-w-o:- (< eu-o:- < eu-e:- < eu-he-) Cf. also teu-gi- 'put back' (put-REP) and tew-o:-ni 'he put' (put-PAST-3SG). The same is observed in the Past tense of the Passive verbs (8.2.1.5) when the Passive marker - $u$ - follows a vowel-final stem: ise-w-o:- 'be seen' (< ise-u-o:- < ise-u-e:- <see-PAS-PAST>).

Verbs with an underlying long /u:/ undergo the same alternation in the Past tense (55a). On the other hand, verbs that end in an underlying short $/ u /$ that may be lengthened by prosodic lengthening (2.3.4) do not demonstrate the alternation $/ u / \sim / w /(55 b)$. In the examples below the bare stems of the verb 'die out, become dim' and 'give' end in the long /u:/, however, only for (55a) is it underlying, as is shown by the Future form. The underlying long /u:/ is represented by $u w$ before the Past tense marker $-o:-$, while the underlying short $/ u /$ is unchanged.

|  | bare stem | Future, 3SG |
| :--- | :--- | :--- |
| a. su: 'die out' | su:-zeje-ni | Past, 3SG |
| b. bu: 'give' | bu-zeye-ni | suw-o:-ni |

### 2.3.3. Prosodic lengthening

The prosodic structure of Udihe requires bimoraic feet (3.6.2). Since the minimal lexical word is universally known to be equal to a foot (McCarthy and Prince 1995), the Udihe minimal lexical word must be bimoraic. According to this principle, in a monosyllable with an underlying short vowel, the vowel necessarily lengthens. See, for example, the bare monosyllabic stems of the verbs 'kill' and 'give'. These exhibit a long vowel, whereas polysyllabic forms of the same stems have short vowels:
'kill'
bare stem
Future 3SG
Subjunctive 3SG
wa:
wa-zaya-ni
$w a-z a$
'give'
bu:
bu-zene-ni
bu-ze

Words with underlying long vowels do not demonstrate such alternations in vowel length (cf. 55a).

As shown in 3.6.3.3, the word-final syllable with a short high vowel (in inflectional affixes) is extrametrical with respect to stress placement rules. In bisyllabic words where the second syllable does not belong to the stem and has a short high vowel, the first syllable vowel is lengthened. This suggests that the word-final short high vowels do not provide the mora necessary to ensure bimoraicity of the prosodic word, and is in line with the analysis of these vowels as extrametrical, for example, wa:-mi 'kill (INF)'. Forms with the final postvocalic /i/ do not exhibit lengthening: wa-i 'kill (PRP)'.

### 2.3.4. Consonant deletion

On the deletion of the stem- or affix-final consonant $/ n /$ employed to prevent illegitimate consonant clusters, see 3.4.1.

## Chapter 3 <br> Phonotactics and prosody

### 3.1. Positional restrictions

This section deals with the phonotactic rules that condition the position of vowels and consonants with respect to the word boundaries.

### 3.1.1. Word-final position

The overwhelming majority of native (non-borrowed) words end in a single vowel (tege 'gown', ni:kte 'fern') or in a vowel cluster (ad'au 'twins', bei 'in vain'). On the possible vowel clusters, see 3.2.2. An important phonotactic restriction on the word-final position is the prohibition on consonant segments and, accordingly, consonant clusters.

Word-final consonants have a marginal status and occur only in the following three cases. They may appear as the result of the loss of final high vowels ( $/ i /$ or less frequently $/ u$ ), as discussed in 2.1.5.3. The loss of the final li/ leads to the palatalization of the preceding consonant (2.2.3.2). Second, word-final consonants are present in certain ideophonic adverbs. At least in some cases they seem to have emerged as lexicalized variants of their vowel-final counterparts. For a small group of words the two variants (consonant-final and vowel-final) are simultaneously present in the language (57a). In other cases only the consonant-final variant is preserved (57b). Those consonants found in the ideophones in the word-final position are $|n|,|n \bar{n}|,|l|$ (phonetically usually $\left.\left[l^{j}\right]\right),|r|,\left|s /\left(\left[s^{j}\right]\right),|f f, / m /,|\eta|\right.$, and $/ k /$.

| a. | tef-tef | 'soft' | tefu-tefu |
| :--- | :--- | :--- | :--- |
|  | cif-čif | 'completely (sweaty)' | cifu-čifu <br> taf |
|  | 'all through' | tafu-tafu |  |
|  | per-per | 'numb from sitting' | peli-peli |
|  | kef-kef | 'broken completely, | kefutu-kefutu |

```
pi\eta-pi\eta 'trodden' (SK 749)
logzo\eta-logzo\eta 'crooked' (SK 523)
```

Further examples can be found in the substantially complete list of ideophones in Chapter 26.

Finally, in a number of grammatical morphemes the variant with the word-final consonant has been generalized:

$$
\begin{align*}
& d e(x e) m(i) \text { 'any' }(9.6 .3)  \tag{58}\\
& \text {-As ... -As (rarely -Asi ... -Asi) 'either ... or' (18.2.2.1) } \\
& \text { the adverbial element } c \text { 'of (< c'ofu ) 'forever' } \\
& -k \text { Expressive Past (7.10.4.1) }
\end{align*}
$$

Recent borrowings from Russian may end in a consonant, while in older borrowings from Russian and Chinese an epenthetic vowel prevents a word-final consonant (1.5.2.2.1; 3.4.1.2).

### 3.1.2. Word-initial position

Restrictions on the occurrence of segments in the word-initial position are partly motivated by the phonotactic rules of the language.
(i) The so-called secondary vowels (2.1.2) $|a ̈ /,|\ddot{\partial}|,|\ddot{\prime}|$, as well as their long counterparts, do not occur word-initially.
(ii) Because of the historical sound change ${ }^{*} x i->s i$ - the initial string $x i$ is absent (Menges 1968; Kormušin 1998: 82).
(iii) The ban on tautosyllabic consonant clusters (3.2.1) motivates the absence of word-initial clusters.
(iv) Initial vowel clusters beginning with high vowels are not acceptable because an initial prevocalic glide is syllabified as syllable onset and is pronounced as a consonant: \#ua $\rightarrow$ \#wa, \#io $\rightarrow$ \#jo (3.2.3). Schneider and Kormušin cite variants in the pronunciation of the initial prevocalic $/ w /$ in the Northern dialect (uakta and wakta 'grass'). However, in the modern Bikin dialect only the consonant pronunciation of initial glides is possible.

### 3.2. Co-occurrence restrictions

This section deals with the co-occurrence of adjacent vowels and consonants. Vowel harmony is addressed in 3.3.

### 3.2.1. Consonant clusters

Udihe does not allow tautosyllabic adjacent consonants, therefore three-consonant clusters are not acceptable, and within a two-consonant cluster the syllable boundary is always located after the first consonant. Clusters that consist of two identical consonants are typically absent. Due to the fact that most morphemes are vowel-final (3.5), most consonant clusters occur morpheme-internally. A handful of exceptions to this generalization are provided by $n$-final nominal and verbal stems followed by a suffix that begins with a dental consonant (3.2.2). Thus, the only cluster allowed at a morpheme boundary is a cluster of type " $n+$ dental", while even after $n$-final stems other clusters are prevented either by epenthesis (3.4.1.1) or by consonant deletion.

The most important restriction on clusters of two obstruents is that they must agree in voicing. Voiced obstruents do not co-occur with voiceless obstruents within a cluster. Sonorants can be combined with both voiced and voiceless consonants. The spirants $/ x /$ and $/ s /$ as well as the sonorant $/ l /$ are not normally present within consonant clusters. The glides $/ w /$ and $/ j /$ only occur intervocalically, or in the word-initial position (see 3.2.3. for further details). Table 6 gives the possible combinations according to natural classes; details are discussed in the subsections. In the table the symbols +/- mark the presence/absence of the theoretical possibility of the corresponding cluster.

Table 7. The co-occurrence of consonants

|  | C2 | voiced stops and <br> affricates | voiceless stops <br> and affricates | $\mathrm{x}, \mathrm{s}, \mathrm{l}, \mathrm{w}, \mathrm{j}$ | other <br> sonorants |
| :--- | :--- | :--- | :--- | :--- | :--- |
| voiced stops <br> affricates | and | + | - | - | - |
| voiceless stops and <br> affricates | - | + | - | - |  |
| $\mathrm{x}, \mathrm{s}, \mathrm{l}, \mathrm{w}, \mathrm{j}$ |  |  |  |  |  |
| other sonorants | - | + | - | - | - |

In the following we give one example for each attested cluster.

### 3.2.1.1. Voiced clusters

| cluster | example |  |
| :--- | :--- | :--- |
| $b d$ | abdä: | 'leaf' |
| $b z$ | sebzeryke | 'interesting, funny' |
| $g b$ | dogbo | 'night' |
| $g d$ | agda- | 'get happy' |
| $g z$ | Agza | name of a village |

Clusters beginning with $/ d /$ are impossible. The cluster bg is occasionally attested in the Northern dialect as a result of the following development: $-f i$ (1PL.IN) $+\mathrm{ge}(\mathrm{HORT}) \rightarrow f g e \rightarrow p g e$, for example, yene-ze-b-ge 'let us go' <go-SUBJ-1PL.IN-HORT>.

### 3.2.1.2. Voiceless clusters

| cluster | example |  |
| :--- | :--- | :--- |
| $k t(x t)$ | zakta | 'millet' |
| $k c(x c, k s)$ | tukca $\sim t u k s a$ | 'hare' |
| $k p(x t)$ | $c u k p a$ | 'path' |
| $p c(p s)$ | tapči | 'full' |
| $p t$ | kepte | 'wall' |

Clusters $k t$ and $p t$, on the one hand, and $k c$ and $p c$, on the other hand, are in free variation in words with back vocalism (2.2.4.1). The spirants $/ s /$ and $/ x /$ do not participate in voiceless clusters. The only exceptions in our corpus are asta'release, let go', sta 'son' developed from sita, as well as the Northern kusta < kusikta 'cedar nuts' and meste < mesikte 'wild grapes'. We sporadically find $k s$ and $p s$ pronounced instead of $k c$ and $p c$, respectively. $x$-initial clusters can appear as the result of the optional spirantization of $/ \mathrm{k} /$ (2.2.4.1). $t$-initial clusters as well as the cluster ${ }^{*} p k$ are prohibited (cf. the replacement of the original $p k$ by $k p$ in the old Russian loan-word kakpa 'trap', 1.5.2.2.1).
There is a certain tendency to pronounce the first consonant in the clusters $k t$
 claws'.

### 3.2.1.3. Clusters with sonorants

In clusters that consist of a plosive and a sonorant, the sonorant may precede the plosive, but not vice versa. Since all consonant clusters with the sonorant /l/ have undergone phonological changes in the history of Udihe (2.2.2), $/ l /$ does not occur within consonant clusters, except in certain loan-words (zaylana 'cockroach' < Chinese, malta 'white whale' < Nanai (Schneider 1936: 49)). The sonorant $/ \eta /$ cannot be a second component of a cluster, and the sonorant $\mid \bar{n} /$ is limited to certain clusters.
3.2.1.3.1. Sonorant + voiceless plosive

| cluster | example |  |
| :--- | :--- | :--- |
| $\eta k$ | nim'aŋku | 'tale' |
| $\eta t$ | unta | 'boots' |
| $\eta c$ | guančou | 'spade' |
| $\eta p$ | jappa | 'shaman's belt' |
| $m t$ | amta | 'taste' |
| $m p$ | gampa | 'porridge' |
| $n t$ | a:nta | 'woman' |
| $n c$ | cincaula | 'large mosquito' |
| $m c$ | cimčei | 'finger' |

The spirants $/ x /$ and $/ s /$ do not occur after sonorants, other than in certain loan words (for example, the words dunsi 'things, belongings' and sayxua 'lunch, dinner' borrowed from Chinese). The cluster * $n k$ is not possible because $/ n /$ is velarized in the position before $/ k l: n k>\eta k$ (2.2.3.4). The clusters ${ }^{*} n p$ and ${ }^{*} m k$ also seem to be absent. The palatal $/ \tilde{n} /$ does not occur before voiceless plosives.

### 3.2.1.3.2 Sonorant + voiced plosive

| cluster | example |  |
| :--- | :--- | :--- |
| $\eta g$ | bongo | 'first, main' |
| $\eta z$ | janza | 'jewelry' |
| $\eta d$ | ondo | 'glutton' |
| $\eta b$ | wayba | 'tortoise' |
| $m d$ | kemdexi | 'fish tail' |
| $m z$ | bongomzi | 'main' |
| $m b$ | amba | 'evil spirit' |
| $m g$ | pamgu | 'Adam's apple' (K 277) |
| $n z$ | banza | 'board' |
| $n d$ | cinda | 'bird' |

The palatal $/ \tilde{n} /$ does not occur before the voiced stops $/ \mathrm{b} /, / \mathrm{d} /$, and $/ \mathrm{g} /$ and is occasionally present before $I z /$ in borrowed words (kuñzi 'ladle' < Chinese). The cluster ${ }^{*} n g$ is absent because of the $/ n /$ velarization: $n g \rightarrow \eta g$ (2.2.3.4). The cluster ${ }^{*} n b$ has undergone an historical transformation into $/ \mathrm{m} /$. An example of this historical sound change is the Accusative affix - $m A$ of the class II nominal stems (4.1.3): the stem-final $/ \mathrm{n} /$ and the affix-initial $/ \mathrm{b} /$ changed into $/ \mathrm{m} /$ (*xoton-bA <city-ACC> $\rightarrow$ xoto-mA).

### 3.2.1.3.3. Sonorant-only clusters

| cluster | example |  |
| :--- | :--- | :--- |
| $\eta m$ | ajma | 'mouth' |
| $\eta \tilde{n}$ | saŋña | 'smoke' |
| $\eta n$ | wayna- | 'go to kill' |
| $m n$ | kamnu | 'glue' |
| $m \tilde{n}$ | tamña | 'fog' |
| $m \eta$ | Kumnojko | clan name (Kormušin 1998: 6) |

$\tilde{n}$ - and $n$-initial clusters are absent.

### 3.2.2. Vowel clusters

The string of two or three non-identical adjacent vowels is traditionally treated either as a diphthong (triphthong) or as a bisyllabic (trisyllabic) cluster. The phonotactic restriction of vowel harmony (3.3) implies that only identical non-high vowels are present within a word. Therefore in bivocalic clusters only one non-high vowel may be present. For trivocalic clusters it is theoretically possible to have two identical non-high vowels separated by a glide; in practice, however, such clusters are never found and typically only one non-high vowel occurs within three-vocalic clusters as well.

In 3.2.2.1 we present a list of possible Udihe vowel clusters, while in 3.2.2.2 we discuss their phonological status, and the arguments in favor of their bi- and trisyllabicity. The argument that the high vowel within a cluster cannot be viewed as a glide consonant from a phonological point of view is covered in 3.2.3.

### 3.2.2.1. The system of vowel clusters

### 3.2.2.1.1. Bivocalic clusters

Bivocalic clusters consist of a short non-high vowel ( $/ o|,|e|,|a|,|\ddot{\partial} /| a ̈ /$,$) and a$ high vowel /i/, /u/ (rarely /ui/):
a. high vowel + non-high vowel

| cluster | example |  |
| :--- | :--- | :--- |
| ue | due | 'top' |
| ua | nuani | 'he' |
| uo | zuolo- | 'frolic' |


| b. non-high vowel + high vowel |  |  |
| :--- | :--- | :--- |
| cluster | example |  |
| $e u$ | leukte | 'water-plants' |
| $a u$ | daumi | 'bridge' |
| $o u$ | pou-pou | 'dark' (also pui-pui) |
| äu | bagäu | 'enemy' |
| oüu | zätöü | 'sparrow' |
| $a i$ | aisi | 'gold' |
| $o i$ | kotoi | 'bald' |
| $e i$ | ei | 'this' |
| $\ddot{a i}$ | tukä-i | 'run (PRP)' |
| $\ddot{o} i$ | mogö-i | 'my wooden bucket (1SG)' |

Clusters beginning with a glide followed by $/ a ̈ /$ or $/ \ddot{\partial} /$ are not found. The clusters $i e, \ddot{u} \ddot{0}$, and $i a ̈$ mentioned in Schneider (1936) and considered the only clusters with diphthong status in Simonov (1988) are absent from the modern Bikin dialects because they were transformed into the long vowel phonemes liel (with a diphthongoid pronunciation, see 2.1.1.2.2), lö:/, and lä:/, respectively. The cluster io is apparently very rare; in our material it is only found in three words: Pionka, Gionka (clan names), and miondo 'gun', but their pronunciation may vary (Piaŋka, Päyka, Gäuŋka, mianda, mäunda).

As discussed in 2.3.1, in some idiolects the vowels $/ \mathrm{el}, \mathrm{lol}$, and $/ \mathrm{lal}$ are neutralized before the high vowel, so the clusters $e u, a u$, ou, on the one hand, and $e i, a i$, oi, on the other hand, may be pronounced as phonetically identical. For such idiolects the original quality of the non-high vowel may be established on the basis of co-occurrence restrictions driven by vowel harmony (3.3).

Clusters that consist of two high vowels are the following:

| cluster | example |  |
| :--- | :--- | :--- |
| uii | züi | 'saw' |
| ui | zui | 'sour' |
| iu | giuse | 'roe' |

### 3.2.2.1.2. Clusters with long and laryngealized vowels

Laryngealized non-high vowels (66a) and long vowels (66b) may be present within vowel clusters as their first (but not second) component preceding a glide. The rare vowels $/ \ddot{o}: /$ and $/ \ddot{u}: /$ do not typically occur within such clusters. The clusters occur stem-internally and may appear in the course of morphological derivation.

| a. cluster | example |  |
| :---: | :---: | :---: |
| 'au | n'aula | 'young, youth' |
| 'ai | 'ai-ni | 'his elder brother (3SG)' |
| 'eu | em'e-u | 'we came' <come.PERF-1PL.EX> |
| 'ei | in'ei | 'dog' |
| 'ou | opmon'ouse | 'forgetful' |
| 'oi | koyz 'oi | 'box, chest' |
| 'äu | tuk'ä-u | 'we run' <run.PERF-1PL.EX> |
| 'äi | tuk'ä-i | 'you run' <run.PERF-2SG> |
| b. a:u | xula:-u | 'your blanket (2PL)' <blanket-2PL> |
| $a: i$ | xula:-i | 'your blanket (2SG)' <blanket-2SG> |
| $\ddot{a}: u$ | mä:usa | 'gun' |
| $\ddot{a}: i$ | tukä:-i | 'you run' <run.PAST-2SG> |
| o:u | imo:-u | 'your fat (2PL)' |
| o:i | imo:-i | 'your fat (2SG)' |
| $e: i$ | eme:-i | 'you came' <come.PAST-2SG> |
| e:u | eme:-u | 'you came' <come.PAST-2PL> |

### 3.2.2.1.3. Trivocalic clusters

Trivocalic clusters occur much more rarely. In native stems such clusters typically include one laryngealized vowel (67a). Trivocalic clusters may appear as a result of suffixation (67b).
a. $k u^{\prime} a i$
'ear'
cu'ai
'bird cherry'
b. jandau-i 'my sickle (1SG)'
bua-u
'our God (1PL.EX)'

### 3.2.2.2. The status of vowel clusters

Schneider $(1936,1937)$ was the first to qualify vowel clusters as diphthongs. Since any type of non-high vowel can be a component of a diphthong (short vowels, long vowels, laryngealized vowels and - in the Northern dialect pharyngealized vowels), this means that theoretically one would have to add an excessively large number of phonemes to the vowel inventory. Indeed, the number of vowel phonemes in Schneider's description is about 70.

Under another analysis (Sunik 1968, 1997; Simonov 1988; Kormušin 1998), vowel clusters are regarded as bisyllabic complexes. According to Simonov (1988: 70-71), the components of a vowel cluster may bear a different stress (secondary stress and primary stress), for example: bu'adu 'outside', and belong to different "rhythmic groups" within the word. On this ground they are
considered to be within different syllables. The main argument for the bisyllabicity of vowel clusters advanced by Kormušin (1998: 50) is of morphological character. Vowel clusters are treated as bisyllabic because the morpheme boundary may be located between their components: dala-u-si'feed (animals)' <lap-CAUS-IM>, eme-ini 'he comes' <come-3SG>, umi-ge-u 'we drank' <drink-PERF-1PL.EX>. An additional argument is historical: the components of vowel clusters go back to vowels within two different syllables, since the clusters developed as a result of the loss of the intervocalic consonant. Neither of these two arguments is convincing. In particular, the morphological criterion does not work because the morpheme boundary may also be located "within" a long vowel, although the monophonemic status of long vowels is uncontroversial and was recognized as such by Kormušin himself: dili: 'my head' ( $\leftarrow$ dili- $i$ <head-1SG>), ana:-ni 'he pushed' ( $\leftarrow$ ana-a-ni $<$ push-PAST-3SG>), zugdi-du: 'in our house' ( $\leftarrow$ zugdi-du-u <house-DAT1PL.EX>), etc.
We present below some phonological arguments that support the bisyllabicity analysis.

First, if vowel clusters are considered diphthongs, they must be analyzed as bimoraic. This follows from the fact that vowel clusters are found in structures (C)VV: au 'cap', g'ai 'crow', bui 'animal', bua 'God', loi 'nest', etc. As argued in 3.6.2, the prosodiced word in Udihe must be minimally bimoraic, thus, such words should be regarded as having two moras. The stress placement rules ensure that in polysyllabic words bimoraic segments are stressed (3.6.3.2). However, the vowel clusters do not receive a primary stress unless they occur on the last syllable of the word. Cf. (68a), demonstrating an unstressed vowel cluster, and (68b) which shows that bimoraic (long and laryngealized) vowels in the same position are stressed.

| a. daum'i | 'tobacco' |
| :---: | :---: |
| gauli | 'Korean' |
| bait'a | 'fault' |
| ais'i | 'gold' |
| deuz'e | 'beans' |
| guakt'a | 'moustache' |
| zaur'a | 'greenling (a sort of salmon)' |
| b. 'a:nta | 'woman' |
| 'e:de | 'stupid' |
| $b^{\prime \prime}$ ata | 'boy' |
| $g^{\prime}$ 'ala | 'shell' |

The contrast between (68a) and (68b) demonstrates that vowel clusters behave differently from bimoraic segments with respect to stress assignment, and therefore cannot be analyzed as prosodically equal. Since stress placement in (68a) does not differ from the pattern available for trisyllabic words without
vowel clusters, such as azig'a 'girl', and emugd'e 'stomach', it is logical to assume that vowel clusters are combinations of two monomoraic segments (on stress-placement rules see 3.6.3). Note that in clusters that contain a bimoraic (long or laryngealized) vowel as one of their components (3.2.2.1.3) this vowel is stressed according to the general stress rule: $\tilde{n}^{\prime \prime}$ aula 'young, youth', m'ä:usa 'gun'.

Second, in fast speech (which Kormusin terms the "reduced" style) the clusters may indeed be contracted into a long (bimoraic) vowel. Normally this happens in words with the structure (C)VV, and for some words the contracted forms seem to have become the standard pronunciation. For at least one word both contracted and non-contracted variants are generalized and differentiate the lexical meaning: cf. the contracted variant ba: that normally means 'place, nature; also as expletive subject' (14.1) and the uncontracted bua 'god'. Importantly, the contraction always takes place "in one direction": the resulting long vowel corresponds in quality to the second component of the cluster, independently of it being a high or non-high vowel, cf.:

| a. bua | ba: | 'place, nature' |  |
| :--- | :--- | :--- | :--- |
|  | zua | za: | 'summer' |
|  | nüö | nö: | 'sable' |
| b. | zeu | zu: | 'food' |
|  | teu | $t u:$ | 'all' |

The contraction of vowel clusters is observed in some derivational processes, for example, in the Passive formation (8.2.1.5): an-u:-mi < ana-u-mi 'I am pushed' <push-PAS-1SG>. Clusters with the vowel li/ do not normally contract, except for the cluster Ai that appears when the 3SG and 3PL Present affixes -ini and -iti follow the vocalic verbal stem. Such a cluster is sometimes contracted into the long /i:/, for example: ede-weni:-ni < ede-wen-e-ini 'make (something) become (something)' <become-CAUS-0-3SG>.

Since the second vowel in the cluster always preserves its quality, it is natural to assume that this vowel is stressed. Indeed, in careful speech the stress is present.
(70) a'uni 'his cap (3SG)'
lo'ini 'his nest (3SG)'
bu'a 'place, nature'
This stands in agreement with the stress rule that requires stress on the rightmost non-high vowel in bisyllabic words without bimoraic segments (3.6.3.2). Alternatively, if the vowel cluster were monosyllabic (a diphthong), we would expect its non-glide component to bear the stress and to preserve its quality after contraction. Since such forms (for example, *ze: instead of $z u$ : < zeu) are not attested, this supports the analysis of vowel clusters as a
combination of two vowels belonging to different syllables, while the second of them is stressed. In fact, in clusters where the first component is bimoraic (long or laryngealized) it bears the stress (3.6.3.2) and such clusters do not contract: $j$ 'eu 'what' (but not *ju:).

Thus, vowel clusters behave distributionally as bisyllabic. Indeed, as already noticed by Simonov, they sound and are perceived as bisyllabic in slow speech. Although they can contract into a diphthong or a long vowel (sometimes with a diphthongoid pronunciation, see 2.1.1.2.2), this is typical only for certain clusters, certain types of words, and certain pronunciation styles.

Note, finally, that all that has been said applies only to native (non-borrowed) words. Vowel clusters in those Chinese borrowings not yet completely integrated into the language are often pronounced as a diphthong (3.2.2.2).

### 3.2.3. Status of glides within a syllable

The intervocalic position is the only position where glides ( $/ \mathrm{j} /, / w /$ ) and high vowels ( $/ i /, / u /$ ) are in phonological contrast. High vowels may appear intervocalically, that is, within trivocalic clusters in the course of morphological derivation, although these cases are not frequent. According to the arguments presented in the previous section, they syllabify as syllable nuclei in this case (71a) while intervocalic glides syllabify as syllable onsets (71b). Dots are used below to indicate syllable boundaries.
a. se.u.i
'my oar (1SG)'
ga.u.i
'my pole (1SG)'
'a.i.u
'our vodka (1PL.EX)'
g'a.i.u 'our crow (1PL.EX)'
b. me.je
'mind'
ka.wa 'bark tent'

In the other positions high vowels and glides are in complementary distribution. In the word-initial prevocalic position only glides are acceptable:
(72) jayza 'jewelry’
we: 'mountain'
In other words, vowel clusters beginning with a high vowel do not occur word-initially. Word-medially, glides are not present when they are preceded by a consonant (cf. the absence of clusters * Cj and ${ }^{*} \mathrm{Cw}, 3.2 .1$ ) but there are clusters that begin with a high vowel (3.2.2).

In the preconsonantal position or word-finally glides are not found either (clusters ${ }^{*} j C,{ }^{*} w C$ are absent, see 3.2.1), while high vowels occur within
vocalic clusters (3.2.2). Although phonetically they may be realized as $/ w /$ and lj/ in some idiolects, there are distributional reasons to believe that phonologically they should be identified as vowels. First, the consonant $/ p /$ is realized as $f$ after this segment, as only occurs intervocalically (2.2.3.1), cf.: maifa 'a measure of length', tuiifaya 'plane (a tool)'. Second, triconsonantal clusters in Udihe are absent due to the ban on tautosyllabic consonantal clusters (3.2.1). However, the vowel cluster ending in a glide may be followed by two consonants. This shows that the second element in the cluster must be vocalic.

| waikta | 'nail' |
| :--- | :--- |
| deipti | 'cover, lid' |
| leukte | 'water-plants' |


| aikta | 'fir-tree' |
| :--- | :--- |
| kainku | 'brake for leather' |
| neigze | 'bright' |

Finally, the second component of the cluster may be word-final, although, according to the phonotactic rules of Udihe, word-final consonants are not otherwise accepted (3.1.1):

| $k u ' a i$ | 'ear' | teu | 'all' |
| :--- | :--- | :--- | :--- |
| $k u i$ | 'strength' | au | 'cap' |

### 3.3. Vowel harmony

Udihe has a system of dual harmony based on rounding and height distinctions. Only non-high vowels harmonize, while high vowels are harmony-neutral: on the one hand, they freely co-occur with all vowels, on the other hand, they block the spreading of the harmonic features. Non-high vowels are segregated into three distinct sets that share harmonic features: non-round low vowels (/a/, $/ a ̈ /)$, non-round mid vowels ( $/ e l, /$ lie $/$ ), and round mid vowels ( $/ o /, / \ddot{\partial} /$ ). Long and laryngealized vowels behave harmonically in the same way as their short versions.

The domain of harmony is the phonological word, including clitics (3.5.3.1). The harmony is root-controlled. An additional restriction is that vowels are only specified for backness in roots (on root structure see 3.5.1), while in affixal morphemes non-high vowels may only be non-front.

### 3.3.1. Roots

In bisyllabic and trisyllabic roots vowels are specified for backness. Non-high vowels harmonize for the feature of height and rounding. High vowels ( $\mathrm{i} / \mathrm{l}, \mathrm{lu} /$, and the rare $/ \ddot{i l}$ ) fail to harmonize.

### 3.3.1.1. Co-occurrence of vowels

The co-occurrence of vowels in roots can be represented by the following scheme:

| a. | $l a \mid$ | $\|a ̈\|$ | $\|i\|$ | $\|u\|$ | $\|\ddot{u}\|$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| b. | $l o l$ | $\|\ddot{l}\|$ | $\|i\|$ | $\|u\|$ | $\|u ̈\|$ |
| c. | lel | lil | $\|u\|$ | $\|u ̈\|$ | liel |

see examples
(76a)
(76b)
(76c)

Examples of bisyllabic and trisyllabic roots are in (76).

| a. | kapta | 'parcel' | aziga | 'girl' |
| :---: | :---: | :---: | :---: | :---: |
|  | bäs a | 'river' | gautu | 'hoe' |
|  | kali | 'sig (a kind of fish)' | ad'au | 'twins' |
|  | tukä- | 'run' | kuliga | 'snake' |
|  | susa- | 'escape' | lifakta | 'mud' |
| b. | solö: | 'Siberian weasel' | miondo | 'gun' |
|  | kömpo | 'thorn' | ilondo | 'minnow' |
|  | toni | 'lake' | kosolo | 'currants' |
|  | n'olö | 'caterpillar' | bogüso- | 'torture' |
|  | kodu | 'son-in-law' | mo:mugu | 'stack of firewood' |
| c. | sita | 'child' | emugde | 'stomach' |
|  | tekpu | 'skin' | kusige | 'knife' |
|  | tiu | 'pillow' | u:dugu | 'scraper' |
|  | cupe | 'onion' | zueze | 'table' |
|  | egdi | 'many' | tukulu | 'bottle' |
|  | dieli- | 'fly' | inini: | 'cold' |
|  | uli | 'water' | igisi- | 'keep, |
|  | eke | 'time' | degumu | bring up' |
|  | eke |  | degumu | drying fish |

### 3.3.1.2. Traces of high vowels harmony

Some traces of rounding harmony for high vowels can be noticed. First, in roots where only high vowels are present there is a certain tendency for them to correlate in rounding value; see also the types of affixes in 3.5.2. High vowels often assimilate to each other (2.1.4.2). Second, the round vowels $/ o /$ and $/ \partial /$ are more easily compatible with $/ u /$ than with $/ i /$; in fact, words where $/ i /$ and /ol (/̈̈l) co-occur are rare. They are cited below.

| (77) | koli | 'law, custom' | kico | 'upright' |
| :--- | :--- | :--- | :--- | :--- |
| kokpi- | 'open; have enough time' | igofo | 'bird cherry tree' |  |
| kokčili | 'curly' | silosi- | 'warm' |  |
| disokto | 'wild garlic' | oloxi | 'squirrel' |  |
| dogdi- | 'hear' | doxi | 'full' |  |
| olin- | 'instead' |  |  |  |

### 3.3.1.3. Disharmonic roots

In disharmonic roots each vowel is specified for a whole set of distinctive features. They are represented by recent Chinese and Russian borrowings.

| guančou | 'spade' |
| :--- | :--- |
| zätö̈u | 'sparrow' |
| kab'ou | 'bifurcated object' |
| laulou $\sim$ loulou | 'maternal grandmother' |
| nade | 'must' |

Disharmonic roots deviate from the harmonic principle of co-occurrence of vowels, but their effect on the harmony in affixes (3.3.2) is not haphazard: vowels in the affixes harmonize to the last non-high root vowel, according to the general rule.

### 3.3.2. Affixes

On the phonological structure of affixes see 3.5.2.

### 3.3.2.1. Harmony to the root

Non-high vowels in affixes and clitics (3.5.3) are specified as non-front but are underspecified with respect to height and rounding. Thus, the only non-high vowels that occur in the affixal morphemes are $\mathrm{la} / \mathrm{lol}$, and $\mathrm{le} /$, and their occurrence is conditioned by the harmonic feature of non-high root vowels, or the last non-high root vowel in the case of disharmonic roots (3.3.1.3) in the following way:

| root | suffix |
| :---: | :---: |
| lal /äl | lal |
| $101 / 01$ | 101 |
| lel li/ \|u| |ül | lel |

As can be seen from (79), when the root consists of only high vowels the vowel in affixes harmonizes as lel. Although the vowel li/ entirely shares the harmonic features of $/ e l$ (a non-round non-low vowel), $/ u /$ does not, because it is round. This shows that rounding harmony is localized in a subset of vowels, and must refer to height value: only mid vowels harmonize for rounding.

In the schematic representation of affixal morphemes throughout this grammar, underspecified non-high vowels are represented as $A$, while in the examples they are transcribed using their actual phonetic value ( $a, o$ or $e$ ). The examples below illustrate vowel harmony for the affixal morphemes -wA (ACC) and -lA (LOC).

| a. | 'ana | 'boat' | ACC 'ana-wa | LOC 'ana-la |
| :---: | :---: | :---: | :---: | :---: |
|  | kuliga | 'snake' | kuliga-wa | kuliga-la |
|  | abuga | 'father' | abuga-wa | abuga-la |
|  | zaךgä | 'chief' | zangä-wa | zangä-la |
| b. | zolo | 'stone' | zolo-wo | zolo-lo |
|  | ifokto | 'bird cherry' | ifokto-wo | ifokto-lo |
|  | tokö | 'cloud' | tokö-wo | tokö-lo |
|  | miondo | 'gun' | miondo-wo | miondo-lo |
| c. | neki | 'spring' | neki-we | neki-le |
|  | kusige | 'knife' | kusige-we | kusige-le |
|  | adili | 'net' | adili-we | adili-le |
|  | ataxi | 'spider' | ataxi-we | ataxi-le |

### 3.3.2.2. Blocking the harmony

Importantly, the high vowel located in the last syllable of the root or in the suffixes is opaque. It blocks any further process of harmonization, with the result that the following non-high vowels share its value for harmonic features, and are represented as $l e l$ independently of the harmonic feature of the preceding vowels. Examples (81a) show the opaque vowel at the end of the root, and examples (81b) demonstrate the opaque vowel in the affixal morpheme.
a. ataxi-we
paki-we
talu-we
agdi-we
'spider (ACC)'
'skillful (ACC)'
'birch tree (ACC)'
'thunder'
'his boat' <boat-AL-ACC-3SG>
'his stone' <stone-AL-ACC-3SG>

High vowels in the root that are not root-final do not block further harmony, cf.:

| aziga-wa | 'girl (ACC)' |
| :--- | :--- |
| uga-wa | 'voice (ACC)' |
| cinda-wa | 'bird (ACC)' |
| abuga-wa | 'father (ACC)' |

### 3.3.2.3. Violations

Vowel harmony in suffixes is subject to certain free and idiolectal variation. In some idiolects the harmony is completely suppressed and the only non-high vowel in suffixes is $/ e /$. In other idiolects $/ e /$ may appear instead of harmonic lol or $/ a /$ only in the unstressed position (on stress see 3.6.3).

Rounding harmony is violated fairly frequently, so that in the pronunciation of certain speakers the round vowel $/ o /$ may be replaced by $/ e l(83 \mathrm{a}$ ). This is especially common for clitics, cf. the Hortative clitic -zA (83b).
a. olokto-zene-ni~olokto-zono-ni 'he will cook' <cook-FUT-3SG>
b. olokto-zo ~olokto-ze 'cook (HORT)'

On the other hand, both height and rounding harmonies are sometimes attested in contexts when they would normally be blocked by the root-final high vowel (3.3.2.2), cf. ofodi-e ~ ofodi-ö 'plucked (PP)', guala-ini-e-ni ~ guala-ni-ä-ni 'he turned into' <turn-REP-PAST-3SG>. In these examples the fronting of the harmonizing vowels ( $/ o l \rightarrow \mid \ddot{\partial} /$ and $/ a / \rightarrow \mid \ddot{a} /$ ) can be motivated by the assimilative influence of the preceding $/ i /$ ).

Finally, there are some disharmonic affixes of the structure CiCa or CaCi , a list of which can be found in 3.5.2.2. The non-high vowel in these suffixes is fully specified as $/ a /$ and does not correlate with the harmonic value of the preceding vowels. These affixes are opaque with respect to harmony because although they do not harmonize themselves, they trigger the harmonization of the following vowels. After the affix CaCi the following non-high vowels are realized as $/ e /$ (84a), and after the suffixes CiCa they are realized as $/ a /$ according to the general rule (84b).
a. koyko-masi-zene-ti 'they will beat each other' <beat-REC-FUT-3PL>
b. zolo-ziga-wa <stone-PL-ACC>

```
'stones'
cf. zolo-wo 'stone (ACC)'
'songs'
cf.jexe-we 'song (ACC)'
```

    jexe-ziga-wa
    <song-PL-ACC>
    
### 3.4. Epenthesis

### 3.4.1. Vowel epenthesis

Vowel epenthesis applies in two cases: first, to prevent prohibited consonant clusters (3.4.1.1), second, to prevent word-final consonants (3.4.1.2). In both cases the epenthetic vowel is $A$, that is, a non-high harmonizing vowel. Since roots and affixes are normally vowel-final (3.5), epenthesis applies only after $n$-final roots (class II stems) and $n$-final affixes.

### 3.4.1.1. Word-internal epenthesis

### 3.4.1.1.1. Word-internal epenthesis and consonant deletion

In verbal inflection the epenthetic $A$ is inserted after class II $n$-final stems before a consonant-initial affix to prevent prohibited clusters such as $n m, n k$, and $n j$, but is absent when the following morpheme begins with a dental consonant. As a result, the cluster " $n+$ dental" is the only type of cluster possible at the morpheme boundary. A more detailed description of vowel epenthesis in verbal inflected forms, together with examples, is provided in 7.4 and 7.5 . In certain verbal forms consonant deletion preventing a consonant cluster is preferred to vowel epenthesis. Deletion applies in the Imperative before the following consonant $/ j /$ (85a), before the Imperfective affix -si(85b), before the Purposive Converb affix -lAgA- (85c), and before the Reciprocal -masi- (85d).
a. $i:-j e(<i: n-j e) \quad$ 'enter (IMP.2SG)'
b. dia-si-(<dian-si-) 'talk (IM)'
c. i:-lege-ni (<i:n-lege-ni) 'in order for him to enter'
<enter-PURP-3SG>
d. dia-masi- (<dian-masi-)
<say-REC>
In the formation of the Causative (8.2.1.2) and the Diversative (8.2.2.5) variants are attested: either vowel epenthesis or $n$-deletion applies, depending on the idiolect.

It is noteworthy that for certain speakers word-internal epenthesis in verbal forms is generalized and reinterpreted as part of the stem. For these idiolects the vowel $A$ appears after the stem-final $/ n /$ in all environments, and accordingly the stem moves to the morphonological class I (7.1).

For personal pronouns, the epenthetic $A$ is inserted after $n$-final stems before the Accusative marker $-w A$, since the cluster $n w$ is disallowed. The epenthetic vowel may in this case be realized as $/ a /$ in certain idiolects, cf.:

$$
\begin{array}{llll}
\text { sin-e-we } & \sim & \sin -a-w a & <y o u-0-A C C>  \tag{86}\\
\min -e-w e & \sim & \min -a-w a & <m e-0-A C C>
\end{array}
$$

According to Benzing (1956: 108), the vowel $A$ in the Accusative form of the personal pronouns is a reflex of the old (Partitive) case affix; however, even if this is correct, on the synchronic level it is better analyzed as epenthetic.

In the nominal, adjectival, and numeral declensions, the epenthetic vowel is not present because most case markers begin with dental consonants, and the cluster " $n+$ dental" is legitimate. The Accusative suffix attached to class II nouns demonstrates the historical sound change by which the stem-final $/ n /$ was lost and the suffix-initial $/ b /$ was sonorized: $n+b>m$ (see 3.2.1.3).

### 3.4.1.1.2. Epenthesis in loan-words

An epenthetic vowel prevents word-initial consonant clusters in Russian loan-words (1.5.2.2.1). The quality of this vowel is typically conditioned by the quality of the vowel in the first syllable, although variations are also possible, cf.:

Russian
xleb 'bread'
klub 'club'
kniga 'book'

Udihe
xeleba, xelebe kulube
kiniga

Word-medial epenthesis does not apply to recent borrowings: pampuška 'bun' (< Russian).

### 3.4.1.2. Word-final epenthesis

Word-final epenthesis is present after uninflected $n$-final verbal stems (88a) and in the Reflexive pronoun (88b).
a. dian-a
gun-e
digawan-a
b. men-e

$$
\begin{align*}
& \text { <say-0> }  \tag{88}\\
& \text { <say-0> } \\
& \text { <feed-0> } \\
& \text { <REF-0> }
\end{align*}
$$

The verb $i: n$ - 'enter, come' loses the stem-final consonant in the bare form ( $i$ : $<i: n$ 'enter'). This seems to be motivated by the fact that the stem contains a bimoraic long vowel, so the requirement for the word to be minimally bimoraic (3.3.2) is satisfied.

Nouns, adjectives, and numerals lose the word-final $/ n /$ in the bare forms (4.1.1.2), so in this case consonant-final words are prevented not by vowel epenthesis but by consonant deletion.

An epenthetic vowel is historically present in consonant-final loan-words: Iwan-a 'Ivan', Si Säy-a 'Si San', magazin-a 'shop', metr-a 'meter' (see 1.5).

### 3.4.2. Consonant epenthesis

Consonant epenthesis is not very typical, because Udihe freely allows bivocalic and trivocalic clusters (3.2.2). In some idiolects an epenthetic $/ w /$ may be inserted between the vowel-final verbal stem and the Passive marker $-u$-, although unepenthetisized forms are also possible (8.2.1.5):
zawa-w-u- <take-0-PAS> or zawa-u- <take-PAS> 'be taken'

### 3.5. Morpheme structure

All morphemes fall into three morphological classes: roots, affixes (suffixes), and clitics (enclitics).

### 3.5.1. Roots

Roots are normally vowel-final (the so-called I class stems) or $n$-final (class II stems). Class II stems may be augmented by an epenthetic vowel in certain environments (3.4.1). Further information on the inflectional difference between the two classes can be found in sections 4.1.1 and 7.1. Nominal and adjectival roots appear in a bare form in the Nominative Singular, and verbal roots have the bare form when they co-occur with the negative verb (7.1.5). Grammatical words are not discussed in this section.

Native (not borrowed) roots that have more than three syllables are absent; polysyllabic stems are always the result of a particular derivational process, either synchronic or historical. The root types of native words are presented below, according to their syllabic structure. Examples are only given for nominal and verbal roots; non-derived adjectives and adverbs follow the pattern of nouns.

### 3.5.1.1. Monosyllabic roots

The types of monosyllabic roots are: (i) roots equal to an open syllable with a bimoraic vowel (90a); (ii) $n$-final roots ( 90 b), and (iii) verbal roots equal to an
open syllable with a monomoraic vowel (90c). In the latter type the vowel undergoes prosodic lengthening in certain environments (2.3.4).
(90) a. (C)V:, (C)'V
nouns
$j a$ : 'cow'
mo: 'tree'
se: 'year, kind'
d'a 'cotton wool'
b. (C)Vn, (C)V:n
nouns
$x u(n)$ 'smell'
$x o:(n)$ 'top'
c. (C)V
verbs
bu- 'give'
wa- 'kill'
sa- 'know'
verbs
su:- 'die out'
te:- 'sit'
$b^{\prime} a$ - 'get, find'
verbs
gun- 'say'
i:n- 'enter'
3.5.1.2. Bisyllabic roots

Bisyllabic roots may be vowel-final (91) or $n$-final (92), and have various syllabic structures:
a. (C)VV
nouns
sue 'thin branch'
xиa 'flower'
b. (C)VC(C)V
nouns
dili 'head'
zeli 'barn'
činda 'bird'
c. (C)V:V, (C)'VV
nouns
g'ai 'crow'
ku:i 'strength'
verbs
пиа- 'sleep'
deu- 'get tired'
verbs
susa- 'escape’
jexe- 'sing'
xukti- 'jump'
verbs
k'ai- 'brake (skin)'
ze:u- 'sharpen'
d. (C)V:C(C)V, (C) ${ }^{2} \mathrm{VC}(\mathrm{C}) \mathrm{V}$
nouns
e:xi 'frog'
ni:kte 'fern'
$k$ 'olo 'mittens'
e. (C)VC(C)V:, (C)VC(C)'V nouns
od'o 'grandfather'
verbs
ili:- 'stand'
sikie 'evening'
abdä: 'leaf'
verbs
ča:la- 'want'
l'oso- 'hang'
b'agdi- 'meet'
$n$-final roots nouns xoto( $n$ )
ami(n)
kakt'a(n)
'city'
'father' 'half'
verbs
taun-
nuxan-
dian-
'count'
'dive'
'say'

### 3.5.1.3. Trisyllabic roots

Trisyllabic roots have the following structure:

| a. (C)VVV, (C)V'VV |  |  |  |
| :---: | :---: | :---: | :---: |
| $k u ' a i$ | 'ear' | kuai- | 'build a dwelling' |
| b. (C)VVC(C)V, (C)V:VC(C)V, (C)'VVC(C)V |  |  |  |
| nouns |  | verbs |  |
| cuanza | 'kettle' | xaunta- | 'ask' |
| mä:usa | 'gun' | sauli- | 'offer (food)' |
| c. (C)VC(C)VV, (C)VC(C)V:V, (C)VC(C)'VV |  |  |  |
| nouns |  |  |  |
| sukpai 'name of a river' |  |  |  |
| ad'au 'twins' |  |  |  |
| in'ei 'dog' |  |  |  |
| d. (C)VC(C)VC(C)V |  |  |  |
| nouns |  | verbs |  |
| emende | 'witch' | olokto- | 'cook' |
| mafasa | 'old man' | cajala- | 'sing' |
| zaplaya | 'cockroach' |  |  |

e. (C)V:C(C)VC(C)V, (C) ${ }^{\prime} \mathrm{VC}(\mathrm{C}) \mathrm{VC}(\mathrm{C}) \mathrm{V}$<br>da:nina 'patemal aunt'<br>i:bene 'Japanese'<br>$\tilde{n}$ 'ädiga 'youngest child'

Non-derived native trisyllabic roots with a bimoraic vowel in the second or third syllable seem absent. Non-derived class II roots are absent as well.

### 3.5.1.4. Polysyllabic roots

Native non-derived roots that have more than three syllables are absent. Words borrowed from Chinese may contain two biconsonantal vowel clusters, or a cluster and two further syllables. In conformity with the analysis of vowel clusters as heterosyllabic (3.2.2.2), such words may be interpreted as having four syllables. In practice, however, vowel clusters in Chinese borrowings are normally pronounced as diphthongs (3.2.2.2), so the words cited below may be considered trisyllabic or bisyllabic.

```
gua\etačou 'spade'
    guaizima 'Himalayan bear'
    gindaula 'dragonfly'
    säyguaza 'melon'
    loulou 'maternal grandmother'
```


### 3.5.2. Suffixes

Suffixes are monosyllabic (3.5.2.1), bisyllabic (3.5.2.2), or very rarely trisyllabic (3.5.2.3). Typically they attach to the root directly. In certain cases vowel or, less frequently, consonant epenthesis applies (3.4.2). Some (vowel-initial) suffixes influence the quality or quantity of the final segment of the root; these are addressed in 3.5.2.4.

### 3.5.2.1. Monosyllabic suffixes

The following types are possible.
(i) Suffixes that consist of a single vowel V. There are several homonymous suffixes:
(95) -i 1SG; REF.SG; ADJ; PRP
-u 2PL; 1PL.EX; PAS; CAUS; N; ADJ
-o $\quad \operatorname{PP}$ (for $u$-final verbs)
-e PP (for $i$-final verbs)
(ii) Suffixes CV where the vowel is high (96a) or is $A$, that is, a harmonizing non-high vowel (96b). This is the most frequent type.

| a. | $-l i$ | PROL; INC; V; ADJ | $-t i$ | 3PL; ADJ |
| :--- | :--- | :--- | :--- | :--- |
|  | $-d u$ | DAT | $-z i$ | INST |
|  | $-n i$ | 3SG | $-s i-$ | IM; V |
|  | $-\eta i$ | V; AL | $-g i-$ | V; REP |
|  | $-d i$ | V | $-m i$ | INF; ADJ |
|  | $-x i$ | ADJ; N | $-f i$ | 1PL.IN; ADJ |
|  | $-k i-$ | EXPR; PAST (class II verbs) |  |  |
|  |  |  |  |  |
| b. | $-w A$ | ACC | $-f^{\prime} A$ | N |
|  | $-z A-$ | SUBJ; N | $-m A$ | ADJ; V; N; IN |
|  | $-n A-$ | DEST; V; PL; DIR | $-s A$ | EXP; N; ADJ |
|  | $-s^{\prime} A$ | N; ADJ | $-t A$ | PERM; DIST |
|  | $-s A$ | N; ADJ | $-\eta^{\prime} A$ | N |
|  | $-f^{\prime} A$ | N |  |  |
|  | $-l A$ | LOC; V; N; ADJ; SING |  |  |
|  | $-k A$ | EXPR; PERF (class II verbs) |  |  |
|  | $-g A-$ | PERF (after high vowels) |  |  |

Two suffixes of this type contain a long vowel, although generally long vowels are not typical of suffixal morphemes:

$$
\begin{array}{ll}
-\eta A: & \mathrm{N}  \tag{97}\\
-\eta i e- & \mathrm{IC}
\end{array}
$$

The perfect affix -ge-, which only attaches to $i$ - or $u$-final verbal stems, lacks harmonic variants, because the harmony is blocked by the stem-final high vowel (3.3.2.2).
(iv) Only one suffix of the structure CVC is consonant-final:
(98) -wAn- CAUS
(v) Suffixes CCA (99a) or CCV where V is a high vowel (99b).

| a. | $-k c A-$ | DUR; INT | $-p t A$ | DEC; N |
| :--- | :--- | :--- | :--- | :--- |
|  | $-n d A-$ | SEM | $-n t A$ | N |
|  | $-k t A-$ | DIST; N; ADJ; V | $-m p A$ | N; ADJ; V |
|  |  |  |  |  |
| b. | $-k p i$ | DEC | $-k c ̌ i$ | DEST |
|  | $-\eta k u$ | PL | $-k t u$ | RES; N |
| $-m n i$ | N | $-m z i$ | N |  |
|  | $-n t i$ | $\mathrm{~N} ; \mathrm{ORD}$ | $-m t i$ | ADJ |


| $-n t u$ | ADJ | $-p t i$ | N |
| :--- | :--- | :--- | :--- |
| $-n t u$ | ADJ | $-g b i$ | V |

In some suffixes the high vowel and $A$ may alternate:
(100) $\left.\begin{array}{c}-g A /-g u \\ -k A /-k u\end{array}\right]$
N
N

- $n k A /-\eta k u$
N
$-g d A-/-g d i /-g d u-\quad V$


### 3.5.2.2. Bisyllabic affixes

Bisyllabic suffixes may be of the following types:
(i) CACA (101a) or $\mathrm{C}(\mathrm{C}) \mathrm{VC}(\mathrm{C}) \mathrm{V}$ where V is a high vowel (101b). As can be seen from (101b), only two identical high vowels may be present within such a suffix.

| a. | -zAnA- | FUT | -wAlA | ADJ |
| :---: | :---: | :---: | :---: | :---: |
|  | $-n \bar{n} \tilde{A} A$ | ADJ | -lAgA- | PURP |
| b. | -tigi | LAT | -mugu | N |
|  | -digi | ABL | -dugu | N |
|  | -ligi | ADJ | -dili | PROL |
|  | -yisi- | V | -lisi- | CC |
|  | -xiktu | ADJ | -ptigi | ADJ |

The two suffixes of the structure CVV are:
-ти:i
DES; ADJ $\quad-{ }^{\prime}{ }^{\prime} a i$
N
(ii) Bisyllabic suffixes of the structure $\mathrm{C}(\mathrm{C}) \mathrm{VC}(\mathrm{C})$ e, where V corresponds to a high vowel. As argued in 3.3, a high vowel is harmonically neutral and prevents a harmonic feature from spreading further, so after the high vowel all non-high vowels are realized as $|e|$. The alternation $|e| \sim \mid i /$ or $|e l \sim| u \mid$ is frequently observed in this type (103b) since the suffix-final vowel tends to assimilate to the first vowel of the suffix.
a. -nige
-mule
-fule-
-fine-

| N | -dule |
| :--- | :--- |
| $\mathbf{N} ; \mathrm{V}$ | -muse- |
| $\mathbf{V}$ | -kule- |
| V |  |

LOC
COND
V
b. --gdugu / -gduge
N
N

| -tigi/-tige | N |
| :--- | :--- |
| -gbile-- | V |

(iii) Suffixes $\mathrm{C}(\mathrm{C}) \mathrm{VC}(\mathrm{C}) \mathrm{V}$ where one of the vowels is the high vowel /i/ while another is $/ a /$. The vowel $/ a /$ is present either in the first syllable of the suffix (104a), or in the second (104b). These suffixes are exceptional with respect to vowel harmony, firstly because the non-high vowel fails to harmonize, and secondly because in type (104b) it triggers the harmonization of the following vowels as $/ a /$ (3.3.2.3). The reason for the exceptionality of these suffixes is not entirely clear. One possibility is that the adjacent consonant exerts an assimilatory influence on the non-high vowel: all the suffixes in question have a labial, velar, or uvular consonant adjacent to a non-high vowel, and this may condition its $a$-like pronunciation.

| a. | - wasi | DIV | - -masi- | REC |
| :--- | :--- | :--- | :--- | :--- |
|  | $-\eta a t i$ | N | $-l a \eta k i$ | ADJ |


| b. | -ziga | DIM; PL | -nina |
| :--- | :--- | :--- | :--- |
| -ndima | ADJ | -tuna | COM; COL |
| -gdiga | N | -cina | N |
| -gdig'a | ADJ |  |  |

(iv) Vowel-initial suffixes VCV or VV:

| (105) | $-u x e$ | ADJ | $-A u$ | ADJ |
| :--- | :--- | :--- | :--- | :--- |
|  | $-u s e$ | ADJ | $-i n i$ | 3SG |
|  | $-i t i$ | 3PL | $-u x i$ | LAT |
|  | $-i s i-$ | PC | $-u g u$ | N |
|  | $-u z e$ | N |  |  |

### 3.5.2.3. Trisyllabic suffixes

Trisyllabic suffixes are exceptional; only three examples are found:

| (106) | -ndimali | ADJ |
| :--- | :--- | :--- |
|  | $-n ' A u s e$ | ADJ |
|  | $-\tilde{n} A \tilde{n} A \tilde{n} A$ | ADJ |

### 3.5.2.4. Consonantal suffixes

Suffixes that consist of one consonant are not typical. There are only two exceptions: the $-k$ suffix of the Expressive Past (7.10.4.1), and the -m suffix of (ideophonic) manner adverbs (10.1.3.1.6, 10.1.3.2.2). Both occur only word-finally, and in both cases the absence of the final vowel may be conditioned by the expressive character of the word (cf. 3.1.1).

### 3.5.2.5. "Autosegmental" morphemes

Autosegmental morphemes are realized as phonological alternations in the base to which they attach: they change the length or the phonation type of the stem-final vowel. These are the following morphemes:
(i) The Past tense conditions a lengthening of the stem-final non-high vowel (see 7.1.2 for more detail).
(ii) The Perfect conditions laryngealization of the stem-final non-high vowel (7.1.3);
(iii) Some nominal and adjectival derivational affixes condition laryngealization of the stem-final non-high vowel: the nominal suffixes (')-i (5.1.1.6) and $-(') u$ (5.1.2.11), and the adjectival suffix and the suffix of converted nouns (')-use (6.4.1.4.1). The same applies to the Perfective same-subject converb in (')-si (7.5.2.3.2).
(iv) The disjunctive element $-A s(i)$ is contracted to the final vowel of the stem according to the same rules as the Past tense marker.

Only short vowels undergo changes conditioned by autosegmental morphemes. When the stem-final vowel is underlyingly long or laryngealized, it always remains unchanged. However, in the Perfect a long vowel changes into a laryngealized vowel, cf.:

| (107) $b$ ' $a-$ | 'get, find' | $b$ b'a | 'got' | <get.PERF> |
| :--- | :--- | :--- | :--- | :--- |
|  |  | $b$ b-ni | 'got' | <get.PAST-3SG> |
| te:- | 'sit' | $t e:-n i$ | 'sat' | <sit.PAST-3SG> |
|  |  | $t ' e$ | 'have sat' | <sit.PERF> |

### 3.5.3. Clitics

### 3.5.3.1. Definition

Clitics (enclitics) are characterized by the following properties, which differentiate them from independent words:
(i) Clitics do not bear a separate phonological stress, and are always unstressed.
(ii) Clitics are phonologically bound to the preceding word, and cannot be separated from it under any conditions.
(iii) Clitics enter the domain of vowel harmony, and therefore the usual harmonic conditions are imposed on the vowels within them (see 3.3). For example, the additive focus clitic $-d A$ 'and, too, as well' (12.1.1.3) is possible in the following three phonetic forms:
(108)

| tege-de | 'and the gown' |
| :--- | :--- |
| moxo-do | 'and the cup', |
| aka-da | 'and the back' |

(iv) As argued in 2.2.3.2, the clitic prevents the final consonant from palatalization after the loss of the final $/ \mathrm{i} /$. Since the consonant located at the right edge of the phonological word is normally palatalized after $/ i /$ reduction, this shows that the phonological word boundary is located not before but after the clitic.

Clitics differ in the following ways from other bound morphemes (suffixes):
(i) As distinct from regular affixes containing non-high vowels, clitics are opaque with respect to stress. Normally, in a word without bimoraic vowels the stress falls on the rightmost non-high vowel (109a), see 3.6.3; however, in a word followed by a clitic the stress falls on the syllable preceding the clitic (109b):
(109) a. abuga-l'a 'at the father (LOC)' tada-w'a 'arrow (ACC)'
b. abug'a-da 'and the father'
jaz'a-ta 'and of course'
(ii) Clitics do not count as syllables with respect to other stress-placement rules. A final syllable with a high vowel is unstressed (extrametrical) if it belongs to an inflectional morpheme (3.6.3.3). Importantly, it remains unstressed if followed by a clitic. This can clearly be seen from the fact that the unstressed high vowel $i /$ undergoes a reduction before the clitic just as it does word-finally (2.1.5.3), cf.:
(110) tada-w'a-n(i)-de 'and his arrow' olokt'o-m(i)-do 'and cooking'
<arrow-ACC-3SG-FOC>
<arrow-ACC-3SG-FOC>
<cook-INF-FOC>
<cook-INF-FOC>

This fact supports the analysis of clitics as morphemes invisible to stress rules.

### 3.5.3.2 Inventory

From a functional point of view, clitics typically express focus and are treated in the chapter on particles (Chapter 12). An important structural restriction on them is that they must be maximally one syllable long. The typical structure of a clitic is CA, rarely CCA. A fairly exhaustive list of clitics is presented below:

[^0]$-k A \quad$ focus (12.1.1.11.1), Indefinite pronouns (9.6.2)
$-n A \quad$ contrastive focus (12.1.1.5)

```
-lA contrastive focus (12.1.1.7)
-gdA contrastive focus (12.1.1.8)
\(-z A \quad\) Hortative (12.1.2.4.2)
\(-s A \quad\) focus (12.1.1.11.2)
\(-g A \quad\) focus, Hortative (12.1.1.11.2, 12.1.2.4.2)
\(-t A \quad\) focus (12.1.1.11.2)
-gu Indefinite pronouns particle (9.6.4.3)
```

Certain focus clitics are easily combined. Remarkably, when two monosyllabic clitics are combined this leads to the emergence of an independent word (particle). It receives a separate phonological stress on the second syllable, and loses the ability to harmonize. All vowels are represented by $/ e /$.
(112) kede Indefinite pronouns particle (9.6.4.1)
deke Indefinite pronouns particle (9.6.4.1)
gdele focus particle (12.1.1.8)
tene focus particle (12.1.1.5)
dele Indefinite pronouns particle, focus particle (9.6.4.2, 12.1.1.6)

### 3.6. Prosodic structure

### 3.6.1. Syllable

The most important syllable constraint operative in Udihe is the prohibition of tautosyllabic consonant clusters. This constraint has two surface consequences. First, it means that triconsonantal clusters are totally banned (cf. 3.2.1). The only word that exhibits a word-initial consonant cluster in certain idiolects is drug'afa 'in the middle' (<durug'afa < dulug'afa). Second, it ensures that consonant clusters are not found at word edges. On the other hand, Udihe easily tolerates onsetless syllables both word-initially and word-medially, with the result that heterosyllabic vowel clusters are allowed. On arguments in favor of the bisyllabic analysis of vocalic clusters see 3.2.2.2.

Long and laryngealized vowels may be present within the same types of syllable as short vowels. The structure of syllables acceptable in Udihe is as follows:

| a. | V | V: | 'V |
| :--- | :--- | :--- | :--- |
| b. | CV | CV: | C'V |
| c. | VC | V:C | 'VC |
| d. | CVC | CV:C | C'VC |

Syllables (113c) and (113d) do not occur word-finally (cf. 3.1.1); otherwise there are no restrictions on the position of syllables within a word.

Syllable boundaries need not coincide with morpheme boundaries. Examples of syllabification are as follows (syllable boundaries are shown with dots, morpheme boundaries with hyphens):

> ga.lak.ta.-za.na.-ni
> te.lu. nu.si-k.ce.-i
> e.u.-wo.:-ni
> je.-u.-de
> $\tilde{n}$ 'a.u.la
> a.n.ta

### 3.6.2. Moraic and foot structure

Syllables with long and laryngealized vowels pattern together with respect to stress assignment (3.6.3), and differ from syllables with short vowels. This motivates the analysis of long and laryngealized vowels as bimoraic. So syllables (C)V:, (C)'V, (C)V:C, (C)'VC have two moras, while syllables (C)V and (C)VC have one mora. Since the coda consonant does not project a mora, the syllable (C)VC does not count as heavy (bimoraic) and the syllables (C)V:C and (C)' VC are not counted as extraheavy.

The analysis of long and laryngealized vowels as bimoraic is confirmed by the structure of the minimal word. The minimal content word in Udihe is monosyllabic and bimoraic: ( C$) \mathrm{V}$ : or ( C$)^{\prime} \mathrm{V}$, monomoraic content words (C)V being absent (see 3.5.1 on the structure of roots). Such a situation is conditioned by the universal requirement for the minimal lexical word to be exactly one foot long, and for the foot to have a binary structure under a syllabic or moraic representation (McCarthy and Prince 1995). The foot in Udihe is binary on the moraic level, therefore the minimal word must be bimoraic. If two moras are assigned to long and laryngealized vowels, one mora is assigned to short vowels, and the coda consonant is treated as non-moraic, the absence of the monomoraic words CVC and CV is explained. It also explains quantitative variations in the stem, the so-called "prosodic lengthening", namely, the lengthening of short vowels in monosyllabic structures (2.3.4). The only monomoraic monosyllabic stems are $n$-final verbal stems (3.5.1); however, in the bare form such a stem is augmented by an epenthetic vowel (3.4.2).

Grammatical words can correspond to one monomoraic syllable CV. The possible reason for their exceptionality is that they typically constitute a single phonological (prosodic) word with the word that follows them.

| $\tilde{n} a$ | additive focus (12.1.1.4) | $s u$ |
| :--- | :--- | :--- |
| $b i$ | 'me' | you (PL)' |
| $s i$ | 'you' | $b u$ |
| 'we (EX)' |  |  |
|  | $n i$ | 'who' |

According to the stress placement rules (3.6.3.2) the final affixal syllable with a high vowel is extrametrical. The quantitative variations in the stem ("prosodic lengthening", 2.3.4) strengthen this analysis, because the root vowel lengthens to provide a second mora before a word-final affixal syllable with a high vowel. Cf. (116a), which demonstrates prosodic lengthening in bare monosyllabic stems, (116b) where the lengthening is absent because the word is bisyllabic and the second mora is provided by the second syllable, and (116c) where the word is bisyllabic, but the root vowel is still lengthened. This follows from the fact that the final high vowel does not project a mora, so the root vowel must lengthen to preserve the bimoraic structure.


### 3.6.3. Word stress

According to our preliminary analysis, Udihe has a quantity-sensitive stress system with a right-headed unbounded foot constructed from left to right. In the examples below, the (primary) stress is indicated by the symbol '.

### 3.6.3.1. Character of stress

There have been several attempts to analyze stress in Udihe. According to Schneider (1936: 92) and Sunik (1968: 213), stress in the Khor dialect falls on the first and the last syllable. The initial stress is dynamic, whereas the final stress is associated with a higher pitch. Schneider also notes that if a bisyllabic word is followed by a bisyllabic affix, dynamic stress is absent, but the pitch accent falls on the second and the last syllable: tada-tig'i 'to the arrow (LAT)'.

The same analysis is basically repeated in Simonov (1988: 77). However, Simonov states that the initial stress is normally only present in polysyllabic words. In bisyllabic words it is hardly noticeable, and may be completely absent: om'o and 'om'o 'one.' As for the final stress, Simonov's conception is excessively complicated, because he relies crucially on his non-standard classification of vowels. The basic point, however, is as follows. The so-called "final stress" does not automatically fall on any final vowel in the word, but is rather associated with the rightmost long vowel ("intensive" and "intensive tense" vowels in Simonov's terms): gel'e:ni 'he called' <call-PAST-3SG>.

In our material from the modern Bikin dialect we do not have any particular evidence for a dynamic stress on the first syllable, although it is not excluded that the first syllable in the word is marked by a greater loudness and intensity of sound than the other syllables. Besides, in expressive contexts the first vowel may receive the emphatic stress (3.6.5). The so-called "final" stress does not indeed always fall on the final vowel, its position is discussed in 3.6.3.2. This stress will be referred to as the "primary stress". The phonetic characterization of the primary stress is complicated. We will not discuss this matter here, and only note that it may be associated with greater intensity and sometimes with higher pitch, but not in every word: for example, sentence-final words do not demonstrate pitch raising. In addition, stress involves partial lengthening. According to the experimental data of Baicura (1989-91), in structures CVCV the second short (stressed) vowel is $53-90 \%$ longer than the first. He also notes that in polysyllabic words with short vowels the longest is typically the vowel of the penultimate syllable. This is because, given the frequent extrametricality of the final syllables (3.6.3.3), this vowel often bears the main stress.

Polysyllabic words also seem to have a secondary stress that is less intense than the primary stress. When the primary stress does not fall on the last syllable, the last syllable may receive the secondary stress (117a). Non-(primary) stressed bimoraic vowels also seem to bear the secondary stress (117b). The symbol, is here employed for the secondary stress.

> a. 'a:n.ta.zi.g, $a$
> t'o.si.we.ne.ke.z,em(i)
> <dream-CAUS-INTN-SUBJ-1SG>
b. t,'o.s'ie.mi
'women (PL)'
'I will make (them) dream'
<dream-PAST-1SG>
However, the precise rules for secondary stress are unclear, and we will not discuss this question here.

### 3.6.3.2. Stress-placement rules

The general rule for the assignment of primary stress is that it falls on the rightmost bimoraic vowel, otherwise the final vowel is stressed. Thus, stress on the final vowel is the default. Examples (118a) show words without bimoraic syllables where stress falls on the rightmost syllable. Examples (118b) demonstrate words with one bimoraic long vowel in a non-final position that bears the stress. In (118c) we present words with a non-final, stressed laryngealized vowel. Examples (118d) demonstrate that the closed syllable CVC behaves in the same way as the open syllable CV with respect to stress assignment: neither are stressed unless word-final. The facts in (118d) and
(118d) are the primary evidence for the bimoraicity of laryngealized vowels and the non-moraicity of the coda consonant, respectively. Finally, the examples (118e) show that vowel clusters do not constitute a bimoraic syllable (see also 3.2.2.2).

| a. uta.w'a | 'that (ACC)' |
| :---: | :---: |
| a.na.n'a | 'long ago' |
| ma.ma.sa.l'a | 'old woman (LOC)' |
| o.mo.m'o | 'one (ACC)' |
| b. 'a.n.ta.zi.ga | 'women (PL)' |
| e.m'e:.me.i | 'have come' <come-PP-ACC-2SG> |
| s'u:le.i | 'ill, sick' |
| c. b' 'a.ta.wa | 'boy (ACC)' |
| $k^{\prime \prime}$ o.lo.lo | 'in the mitten (LOC)' |
| d. dog.b'o | 'night' |
| zab.da.l'a | 'grass-snake (LOC)' |
| e.men.d'e | 'witch' |
| nip.ka | 'Chinese' |
| li.fak.t'a | 'mud' |
| e. na.un.za.k'a | 'boy' |
| zu.e.z'e | 'table' |

When the word contains more than one bimoraic syllable, the stress falls on the rightmost bimoraic syllable. However, this situation is rare, because the root typically contains no more than one bimoraic syllable, while most morphemes do not have bimoraic vowels at all (see the morpheme structures in 3.5). Two bimoraic vowels are present in the Past and Perfect verbal forms if the root initially has a bimoraic vowel, because the Past and Perfect markers cause a lengthening or laryngealization of the root-final vowel, respectively (3.5.2.4).

[^1]'he sat'
'he extinguishes'
'he salted'
<sit-REP-PAST-EXPR>
<extinguish-3SG>
<salt-PAST-3SG>

As argued in 3.5.3.1 clitics are outside the domain of stress assignment.

### 3.6.3.3. Extrametrical syllables

The assignment of stress also takes into account the character of the syllable. Crucially, word-final syllables with high vowels (/i/ and $/ u /$ ) are extrametrical with respect to stress assignment, that is, they do not bear the stress. In the absence of bimoraic vowels the stress falls on the penultimate syllable, as demonstrated in the examples below.
(120)
a.zi.g'a.ni
zo.m'i.mi
to.kö.w'o.ni
te.ge.w'e.u
a.i.si.gi.ze.ท'e.ni
sa.kin.de.z'e.mu
'his girl'
'stealing' <steal-INF>
'his cloud' <cloud-ACC-3SG>
'your gown' <gown-ACC-2PL> 'he will mend' <mend-REP-FUT-3SG> 'we will clap' <clap-SEM-SUBJ-1PL.EX>

The unstressed character of the word-final high vowel explains the fact that in fast speech it often undergoes complete reduction (2.1.5.3). However, in more distinct pronunciation (the "expressive style", in KormuSin's terms), the word-final high vowel may be lengthened (2.1.5.2) and in this case, of course, it is stressed in accordance with the general stress rule (3.6.3.2).
e.de.i.si.n'i: 'when, if'
bi.si.n'i: 'he was' <be-PAST-3SG>
se.u.ti.ge.n'i: 'his nut' <nut-3SG>
Importantly, the extrametricality of the final syllables with high vowels is only restricted to inflectional affixes, while the final vowel within the root (the bisyllabic or trisyllabic root) is stressed in the regular manner.
di.li
de.gu.m 'u 'poles for drying fish'
dog.d'i
a.di.li
'head'
'listen'
'net'

The contrast in stress placement between, for example, a.di.li 'net' and zo.m'i.mi 'stealing' <steal-INF> shows that it is indeed the status of the morpheme (root vs. affix) that accounts for the extrametricality/non-extrametricality of the rightmost syllable.

When the word ends with two syllables containing high vowels they are both extrametrical with respect to stress:
(123) am.b'a.tigi 'to the evil spirit (LAT)'
bom.b'o.li.gi 'round' <ball-ADJ>
a.zi.g'a.di.gi 'from the girl (ABL)'
b'u-ini 'he gives' <give-3SG>

This again applies only to affixes, cf. a.di.l'i 'net'. However, in the full pronunciational style the final high vowel may be associated with a secondary stress, cf.:
(124) am.b'a.tig, $i \quad$ 'to the evil spirit (LAT)'
a.zi.g'a.di.g, $i \quad$ 'from the girl (ABL)'

Exceptionally, the Dative affix $-d u$ typically bears the stress: $o-d$ ' $u$ 'here' <this-DAT>, zugdi-d'u 'in the house' <house-DAT>.

### 3.6.3.4. Alternation triggered by stress

Stressed and unstressed vowels demonstrate a different behavior in certain phonological processes. As was mentioned above (2.1.5.3), an unstressed final high vowel may be deleted while a stressed final high vowel is always preserved. Stress plays a certain role in the process of high vowel contraction (2.3.1).

### 3.6.3.5. Reduplications and stress

Like most Tungus-Manchu languages, Udihe is rich in (ideophonic) reduplicated adverbs (10.1.3.2). They appeared as a total reduplication of ideophonic stems, but the corresponding non-reduplicated variant is only attested for certain words in the modern language. In all cases both components of the reduplicated word bear a separate phonological stress according to regular rules. They are usually monosyllabic or bisyllabic; the latter type is illustrated below.
bokči-bokči ~ bokčom-bokčom
wekt'e-wekt'e
dand ${ }^{j^{j}}{ }^{-}$-dand ${ }^{\prime}{ }^{j}$
lenk'e-lenk'e
ling'a-ling'a
pic'e-pic'e

```
'wrinkled'
'together, in a pile'
'on end (of hair)'
'dangling'
'sticky'
'into smithereens'
```

Reduplicated ideophones will be treated as lexical items that consist of two phonological words. They are written and glossed with a hyphen throughout the grammar.

### 3.6.4. Sentence stress

Typically, the intonation falls at the end of the sentence. However in yes-no questions and disjunctive questions (23.1.2, 23.1.4) intonation rises considerably on the last word of the sentence. When the last word of a sentence is prominent, this may be expressed by a rising pitch on the stressed vowel. In the examples below an acute accent indicates a rising pitch.
a. Stepana eme-gi-e-ni. Ni
Stepan come-REP-PAST-3SG
who
eme-gi-e-ni? Stepán?
come-REP-PAST-3SG Stepan
'Stepan has come. Who has come? Stepan?"
b. Bi sin-du imasi-zé-mi?
me you-DAT tell.tale-SUBJ-1SG
'Shall I tell a tale to you?'

### 3.6.5. Emphatic stress

Emphatic stress is marked by a rising pitch on the first vowel of the corresponding word. If this vowel is originally short it may receive a partial secondary lengthening, and therefore bear the primary word stress. So the stress may shift from its regular position. The vowels that undergo partial secondary lengthening are shorter than the underlying long vowels, but longer than their short counterparts. Words that bear the emphatic stress are capitalized in the translation below.
a. Si jexe-mi
n' 'ó:ni (<n'on'i:)?
you sing-INF can.2SG
'CAN you really sing?'
b. Sagdi-zi ule-zene-ffi), s'á:gdi (< sagdi)
big-INST dig-FUT-1PL.IN
big
kuliga.
snake
'Let us dig more, the snake is BIG.'
c. Bi'o:no (<on'o) bagdi-ze-mi?
me how live-SUBJ-1SG
'HOW should I live?'
d. Sugzä-wa i:-le-de
fish-ACC what-LOC-IND
$e-s i-n i$
wa:, 'á:nči (<anči) sugzä.
kill no fish
'He hasn't caught fish anywhere, NO fish.'
e. Adi-adi zali t'á:pči (<tapči).
how.many-how.many barn full
'Several barns are FULL.'
"Stylistic variations" in the length and quality of the word-final /i/ (2.1.5) are also conditioned by emphatic stress. The lengthened final $/ i /$ bears the primary stress.

In general, the emphatic stress and the presence of different styles of pronunciation make the identification of stress exceedingly complicated.

## Morphology

Udihe exhibits a rather high degree of morphological synthesis. The inflectional grammatical classes have more than one morpheme per word. A number of grammatical morphemes are semantically equivalent to separate lexical items in the European languages, cf., for example, wakca-na-mu:i'want to go to hunt' where -nA- is the Directive verbal suffix which indicates movement in order to accomplish the action specified by the verbal stem, and -mu: $i$ - is the Desiderative affix. Yet a "polysynthetic" combination of a large number of morphemes within one word is not possible. Theoretically, the nominal word may include at most six morphemes (the root, the derivational affix, the Alienable Possessive suffix, the Possessive affix, the number affix and case affix), and the verbal word may include six or seven morphemes (the root, three or four derivational affixes, tense/mood, and agreement). In practice, however, such cases are rarely found, and the noun normally contains no more than three or four morphemes, and the verb contains no more than five morphemes.

The morphological structure of Udihe is characterized by a certain level of agglutination. Typically, the words can be easily divided into a linear sequence of distinct morphs, each of which has a fairly consistent shape and a single function. The agglutination, however, is not absolute; in many cases the boundaries between the morphemes are not clear-cut, and several grammatical meanings are combined within one "portmanteau" morph. This is mostly due to the various morphological alternations described in 2.3. One example is the frequent conflation of the $i$-final stem or affix with the following $i$-initial morpheme. Thus, the $1^{\text {st }}$ person Possessive affix -i (e.g. anda 'friend', anda-i 'my friend') conflates with the preceding $/ i /$ within the Lative inflection -tigi (anda-tigi-i <friend-LAT-1SG> $\rightarrow$ anda-tigi: 'to my friend'). This creates a 'portmanteau' morph -tigi: which indicates both the Lative and the $1^{\text {st }}$ person singular. Some morphemes, however, have several grammatical functions, and this is not a result of morphonological alternations (at least at the synchronic level). For example, the suffix (')-si marks both the Perfective Converb and the same-subject switch-reference relation (7.5.2.3.2).

The only type of affixes found in Udihe are suffixes, that is, all bound morphemes follow the root. Although synthesis predominates in the expression of grammatical meanings, a few analytical constructions are present. Certain aspectual, temporal, and modal categories are formed with the auxiliary verb (see Chapter 7). Other morphological processes are reduplication,
compounding and conversion. Overall, incorporation is not typical; some incorporation-like phenomena are addressed in 6.4.1.2.2, 8.3, and 10.1.3.1.1.

The major open word classes (nouns, verbs, adjectives and adverbs) can be easily distinguished by morphological and syntactic criteria.

## Chapter 4 <br> Noun inflectional morphology

Nouns are characterized by the grammatical categories of number, case, and possession. Syntactically they function as arguments (Chapter 14), adjuncts (15.3), modifiers (Chapter 13), or predicates in copular constructions (Chapter 17). The absolute majority of nouns in Udihe have the prototypical nominal meaning: they denote physical objects, either countable entities or uncountable mass notions. Very few nouns denote abstract notions, such as states, activities, results or qualities, cf.: teluyu 'story', jexe 'song, singing', boko 'color', and zima 'visit'. Normally words with abstract meanings correspond to adjectives or verbs in non-finite forms.

### 4.1. Nominal inflection

The order of inflectional morphemes in the nominal word is as follows:

$$
\begin{align*}
& \text { stem - (Plural) - (Alienable Possessive) - (Possessive Plural) - (case) }  \tag{128}\\
& \text { (Possessive) }
\end{align*}
$$

### 4.1.1. Nominal stems

Diachronically there were at least three different types of nominal stems, described in Schneider (1936) as vowel-final, $n$-final, and $l$-final stems. Vowel-final stems will be referred to as class I nouns and their declension will correspondingly be referred to as class I declension. The old $l$-final stems behave in the modern language like class I nouns, that is, they have become vowel-final (4.1.1.1). However, nouns whose stem ends in $/ n /$ preserve some peculiarities, and these will be referred to as class II nouns, while their declension will be called the class II declension. Generally speaking, the old system with three types of noun stems is at present in a state of collapse, but a final reduction to one stem type has not yet occurred. Some traces of the old system are still preserved, especially in the speech of the older generation. The class I and class II declensions are still clearly opposed, although the number of class II words is gradually declining. Below we present the paradigms that illustrate the difference between the declension of the class I and class II nouns.
(129) Examples of the case paradigms (non-possessive forms)

I class
NOM ugda 'boat'
ACC ugda-wa
DAT ugda-du
LAT ugda-tigi
LOC ugda-la
PROL ugda-li
ABL ugda-digi
INST ugda-zi

II class
nати 'sea'
namu-me
namun-du
namun-tigi
namun-dule
namun-duli
namun-digi
namun-zi

### 4.1.1.1. Class I nouns

In the absolute majority of cases, a Udihe nominal stem ends in a single vowel (for example, anda 'friend', bä: 'moon', weige 'floor', gob'o 'fly', dili 'head') or a vowel cluster (for example, in'ei 'dog', bui 'wild animal', ku'ai 'ear'). The class I nouns' vowel-final stem remains unchanged when inflected, cf.: anda 'friend' anda-wa (ACC), anda-tigi (LAT), anda-zi (INST), anda-digi (ABL), etc

### 4.1.1.2. Class II nouns

Class II nouns have $n$-final stems.

### 4.1.1.2.1. Particularity of declension

For the class $I I n$-final nouns, the stem-final $/ n /$ is not present in the Nominative, Partitive, and Accusative (both in the personal and impersonal forms); that is, in these cases the stem is vowel-final. In all other case forms, the stem ends in $/ n /$, cf.: xoto 'town (NOM),' xoto-mo (ACC), xoto-lo (PART) but xoton-tigi (LAT), xoton-zi (INST), xoton-digi (ABL), etc. While quoting the II class words, $n$ will be given in brackets.

The following are properties of the class II declension. Special case suffixes are used in the Locative and Prolative: -dulA (-dilA) and -duli (-dili) respectively (instead of the regular -lA and -li for the class I nouns). Class II nouns exhibit the Accusative suffix -mA instead of $-w A$ as used by the class I nouns (e.g. xu-me-ni 'smell' <smell-ACC-3SG>). In addition, the difference between the class I and class II declensions becomes apparent in the possessive forms of the $1^{\text {st }}$ person Singular and the $1^{\text {st }}$ person Plural Exclusive in the Nominative (see 4.1.4.1.1).

### 4.1.1.2.2. Some historical considerations

At first sight, the reason for such a distribution seems to be purely historical-phonological. The oblique $n$-final stem is a common Tungus feature. It appears that in Udihe (and other Southern Tungus languages) the stem-final $/ n /$ is preserved before the dentals, since all case inflections except the Accusative begin with a dental consonant (see 6.1.3). However, it is lost word-finally (in the Nominative) and before the labial / $w /$ (in the Accusative) in full accordance with the phonotactic rules of Udihe (Chapter 3). So if we take into account only case paradigms, the distribution $n / \varnothing$ appears in the modern language to be based on phonological grounds.

However, several considerations arise at this point. $N$-final stems are typical not only of nouns, but also of other grammatical classes: verbs (7.1), some pronouns (9.1, 9.2), postpositions (10.2), numerals (11.1), and adjectives (6.1.1). For some of these categories the stem-final $/ n /$ behaves in a slightly different way. Firstly, verbs show a distribution into two morphonological classes: vowel-final stems (class I) and $n$-final stems (class II). The class II verbs lose the stem-final $/ n /$ only before the old Past and Perfect markers -*s $V$ and $-* k V$ - respectively. However, in all other cases $/ n /$ is preserved, including the occasions when it is followed by a non-dental consonant. The epenthetic vowel $-A$ - is then inserted to prevent an impossible consonant cluster, for example: dian + -mi $\rightarrow$ dian-a-mi 'I say' <say-0-1SG> (see 7.1 for details). Thus, in the same environment, in verbs epenthesis applies to prevent an illegitimate cluster and not the deletion of the stem-final consonant $/ \mathrm{n} /$, as in nouns. The same is true for personal pronouns (9.1.1), which exhibit an epenthetic vowel after the $n$-final stem and before the Accusative suffix -wA, for example, min-e-we 'me' <me-0-ACC>, although in this case an historical explanation may be possible (see 3.4.1.1.1).

For some groups of words $/ n /$ is also preserved in the potential word-final position, and followed by an epenthetic vowel -A-, cf. the Nominative form of the Reflexive pronoun men-e (9.2), and the bare stems of the class II verbs that follow the negative auxiliary (7.1), such as dian-a. According to this, epenthesis is a more regular way to prevent consonant-final forms than the deletion of the consonant.

Finally, the stem-final $/ n /$ is not present before the nominal Plural suffix $-z i g A$, although it also begins with a dental, and the cluster $n z$ is perfectly legitimate in Udihe (Chapter 3), cf.: xoto-ziga 'towns' instead of the expected *xoton-ziga.

These pieces of evidence weaken the idea that the absence of the stem-final $\mathrm{ln} /$ in the Nominative and the Accusative of nouns is conditioned simply by phonological considerations. Note also that the $n$-final stems are typical of certain morphological groups, for example, Past active participles that decline in the same way as class II nouns (7.5.1.1.2). These participles historically ended in *xan (Benzing 1956). Most personal pronouns (9.1) and Cardinal
numerals (11.1.1) have $n$-final stems. This suggests that the distribution between class I and class II words may not have been entirely random.

### 4.1.1.2.3. Semantic groups

In Schneider's dictionary (Schneider 1936) about 20 nouns are in class II. All of them appear to belong to the native Udihe vocabulary, and they mostly denote very basic notions. In the modern language, they are even fewer. The reduction is likely to be motivated by the "analogy tendency", mentioned already in Schneider (1936: 93), which forces the generally non-numerous class II nouns to lose the stem-final $/ n /$ completely and be reinterpreted as class I nouns. For some words parallel forms such as ami-tigi and amin-tigi 'to the father' (LAT), xoton-du and xoto-du 'in the town' (DAT), belie-tigi and belien-tigi 'to the fairy' (LAT) appear. The variations are found among idiolects and dialects. Other words have completely undergone the transition to class I, such as, for example, the common Tungus word *samän 'shaman' (Cincius 1977: 59), which does not keep the historical stem-final $/ n /$ and appears in the modern language as a class I noun sama.

Among the class II nouns a small semantic group of kinship terms is notable for having special suppletive Nominative and Vocative forms (see also 12.2.1.3), while their case and possessive forms derive from a different $n$-final stem:

| Nominative | Vocative | declensio |  |
| :---: | :---: | :---: | :---: |
| abuga, amita | abuga-i | ami(n)- | 'father' |
| enipe | enipe-i | eni(n)- | 'mother' |
| nexuse | neضu-i | nenu(n)- | 'younger sibling' |
| ag'a | ag'a-i | 'ai(n)- | 'elder brother, |
|  |  | an addres | an by a child' |
| exe | exe-i | exi(n)- | elder sister, |

However, these two types of stem are often mixed in speech, and the Nominative stem also sometimes takes the Plural, case, and Possessive suffixes. For example, the old possessive forms, derived from the class II declension stem, such as ami-mi 'my father' and nenu-mi 'my younger sibling', can be replaced by the possessive forms, derived from the Nominative stem, such as abuga-i and neyu-i, correspondingly.

The names of the local rivers Xu:(n) 'Khor', Ima(n) 'Iman', and Biki(n) 'Bikin' belong to class II as well, cf. for example, the Locative form Xu:n-dile 'on the Khor'. This fact is reflected in the Russian form of the two of these hydronyms ending in $/ n /$ (Bikin and Iman). But the variants that follow the class

I noun declension pattern, such as Biki-le 'on Bikin' <Bikin-LOC>, are also often used.

The list of other nouns that generally preserve their class II peculiarities in the modern language is presented below.
xoto(n)
namu $(n)$
kakt' $a(n)$
namna( $n$ )
eni $(n)$

| 'town, city' $\quad$ belie(n) |  |
| :--- | :--- |
| 'sea' | xu(n) |
| 'half' | koso(n) |
| 'sky' | ogdo(n) |
| 'female (of hoofed animals)' |  |

'fairy girl'
'smell'
'angle'
'slope, side' (SK 370)

At the same time, grammatical classes other than nouns (numerals, Past Participles, certain quantifiers and postpositions), do not show such a strong analogy tendency if they belong morphonologically to class II. Basically they preserve the original class II declension rather well.

### 4.1.1.3. Traces of $l$-stems

One more consonant-final type of noun stem (historically ending in Ill) was described in Schneider (1936: 93, 103) as disappearing and vague. According to Schneider, the paradigm of $l$-final nouns included an Accusative ending in $-b A$, instead of $-w A$ - (for class I nouns) or $-m A$ (for class II nouns) and the special Plural possessive forms with a final -bi. Such forms are no longer found and their existence is denied by speakers of the Bikin dialect. The only traces of an $l$-final noun declension type can be found in some isolated irregular cases: the irregular old Accusative form of the numeral 'two' zu-be (see Chapter 10) derived from the stem $z u:$ ( $<z u: l<$ PTM $^{*} z u \bar{r}$ ) and in the isolated obsolete form $x a-b i$ ' my brothers and sisters' found in a folk-tale.

### 4.1.2. Number

The Singular of the noun is not morphologically marked. Plurality is not necessarily marked morphologically either (4.2.1.2), but can be encoded by special morphemes on the noun. Class I and class II nouns do not differ with respect to Plural formation.

### 4.1.2.1. Plural

Plurality is marked on the noun itself with the suffix -ziga. According to Schneider, this suffix follows vowel harmony and has the variants -zigal-zigel-zigo (Schneider 1936: 97). However, in the modern Bikin dialect this suffix does not harmonize (3.5.2.2) and occurs mostly in the form -ziga.

The form -zige is in a free variant after the $e$-final stems, for example, both exe-zige and exe-ziga 'elder sisters' are possible. In $a$-final and o-final stems the last vowel of the suffix -ziga clearly sounds as -a, e.g. tukca-ziga 'hares', $\tilde{n} a u l a-z i g a ~ ' c h i l d r e n ', ~ p a u z a-z i g a ~ ' r o e s ', ~ s o \eta g o-z i g a ~ ' b e a r s ', ~ o g b o ̈-z i g a ~ ' e l k s ', ~$ and oño-ziga 'letters'.

Within the nominal word the Plural affix -ziga immediately follows the root and therefore precedes all other inflectional morphemes (the case and Possessive affixes), cf.: giuse-ziga-ni-we-ni 'his roes (ACC)' (Schneider 1936: 103) <roe-PL-AL-ACC-3SG>.

### 4.1.2.2. Collective Plural

Collective plurality is expressed by the classifying bound word getu (4.2.1.3). This word immediately follows the host target and cannot be separated from it under any conditions. It is compatible with the animate nouns that denote human beings, for example $n$ 'aula getu 'youth, young people', or lusa getu 'the Russians'. It also indicates plurality in the impersonal forms of the active participles, for example zube ni: xudei getu 'two merchants', isene getu 'audience' (literally: 'seeing ones') (see also 7.5.1.1); as well as in the nominalized modifiers (adjectives, pronouns or quantifiers) within the headless noun phrase (22.2.3). The bound word getu inflects for case and possession while the host word remains morphologically unchanged, for example $\tilde{n}$ 'aula getu-we-i 'your young people (ACC, 2 SG)'. However, we have one example in which the host word takes a possessive affix.

```
    minti sagda-nta-fi
    we big-N-1PL.IN PL
    'our old men'
```

The bound word getu does seems to go back to the separate word getu 'friend, comrade, companion, relative' illustrated in (133). Also, a derived verb getu-le-ne-gi- 'bring somebody' <relative-V-V-REP> behaves as other regular verbs and takes a cognate object, as shown in (133b).
a. Bi getu-i anči.
me friend-REF
no
'I have no relatives (friends).'
b. Si getu-i getu-le-ne-gi-je.
you friend-REF friend-V-DIR-REP-IMP.2SG.
'Bring your relatives with you.'

### 4.1.2.3. Possessive Plural

Nouns denoting persons take the Possessive Plural affix -nA-. It follows the stem and is obligatorily followed by a Possessive inflection (134a). Class II nouns attach their special Accusative suffix -mA- after the Plural marker -nA(134b). Inanimate nouns do not normally take the Possessive Plural suffix -nAWhen the Alienable Possessive affix - $\eta i$ i- is present the Possessive Plural affix $-n A$ - follows it (134c).

```
a. bi getu-ne-tigi: 'to my friends'
    <me friend-PL-LAT.1SG>
    sita-na-zi-ti 'with their children'
    <child-PL-INST-3PL>
    b. exi-ne-me-ni 'his sisters'
    <sister-PL-ACC-3SG>
    ami-ne-me-ni 'his ancestors'
    <father-PL-ACC-3SG>
c. aziga-ni-ne-we-ti 'their daughters' (Schneider 1936: 103)
    <girl-AL-PL-ACC-3PL>
```

Schneider (1936: 103) hypothesizes that the Possessive Plural suffix -nAused to end in a consonant, presumably $/ l /\left(-n A-<^{*}-n A l\right.$ ). The evidence he cites for this is that the $1^{\text {st }}$ person Singular Possessive suffix used to appear in the form -bi after the Plural -nA-. As mentioned above (4.1.1.3), in Schneider's description this is a property of $l$-final stems. In the modern language the $l$-declension is lost, and the Possessive -bi does not occur. Instead the regular forms with the $1^{\text {st }}$ person Singular Possessive affix $-i$, such as bi sita-na-i 'my children', are found. Occasionally, the affix - $m i$ is used in this function as well, cf.: bi 'ai-ne-mi 'my brothers'. This may also indicate that $-n A-$ goes back to *nan (*nan + *bi>na-mi).

The suffix of the Possessive Plural $-n A$ - is formally identical to the Destinative case marker (4.1.3) and shows a certain closeness of meaning (an expression of possession). It has been suggested (Igor' Kormušin, personal communication) that they may have a common origin (cf. the Russian construction On mne brat 'He is my brother' literally 'He is a brother to me', where the destinative Dative form mne 'to me' expresses possession). Whatever their origin may be, in modern Udihe the Destinative and the Possessive Plural are clearly different categories. Besides, they differ formally. The $1^{\text {st }}$ person Singular and Singular Reflexive Destinative forms are $b i$ sita-na-mi 'child for me' and (men-e) sita-na-mi 'child for oneself', respectively. The corresponding Possessive Plural (non-destinative) forms are bi sita-na-i 'my children' and men-e sita-na-i 'one's own children'.

### 4.1.3. Case

The Udihe case system includes ten cases. A case inflection follows the Plural suffix and precedes the Possessive. In non-possessive forms the case suffix is the rightmost morpheme within the word. Some morphophonemic peculiarities observed in the declension of possessive forms are addressed in 4.1.4.1.2. Case inflection is fairly regular for all nouns, the only differences existing are those between the class I and class II declensions (4.1.1). The Nominative is zero-marked morphologically and coincides with the bare stem for class I nouns. For class II nouns the Nominative form is vowel-final, that is, the stem-final $/ n /$ does not appear. Likewise, in the Accusative and the Destinative class II nouns do not have the stem-final $/ n /$, while in all other cases the class II stem appears in its full $n$-final form (see 4.1.1 for further discussion and examples). The case suffixes for the non-possessive forms are presented below:

|  | I class | II class |
| :--- | :--- | :--- |
| NOM | - | - |
| ACC | $-w A$ | $-m A$ |
| DAT | $-d u$ | $-d u$ |
| LAT | - tigi | - tigi |
| LOC | $-l A$ | - dule $(-$ dile $)$ |
| PROL | $-l i$ | - duli $($ (dili) |
| ABL | - digi | - digi |
| INST | $-z i$ | $-z i$ |
| DEST | $-n A-$ | $-n A-$ |

Under certain conditions, the Accusative case remains overtly unmarked and coincides with the Nominative (4.2.2.2.2-4.2.2.2.5). The Locative and Prolative affixes for the class II nouns have two variants each, one with the high round vowel $/ u /$ and the other with the high vowel $/ i /$. Their distribution is conditioned by the tendency to assimilate the vowel /i/ of the suffix to the $/ \mathrm{i} /$ vowel of the stem. Thus the variants -dile and -dili are normally used if the last vowel in the stem is $/ i /$ (for example, amin-dili 'by the father' (LOC)), while the variants -dule and -duli are used in all other cases (for example, xa-dule 'by the brother' (LOC), namun-dule 'in the sea' (LOC), xoton-dule 'in the town' (LOC), etc.). This tendency, however, is not absolute in both directions. The Destinative case has a limited distribution: it must be followed by Possessive affixes and cannot co-occur with a Plural marker. For more on the form and the meaning of the individual cases, see 4.2.2.

### 4.1.4. Possessive

Possessive affixes attach to the head of the possessive noun phrase, the possessed noun (13.1). There are two types of Possessive suffixes: non-reflexive and reflexive. The Reflexive affixes mark the coreference of the possessor with the subject of the sentence (see 22.3 for details), while non-reflexive Possessive affixes indicate the lack of such coreference. The Possessive affixes are located at the right edge of the word, after all the other inflectional morphemes. Illustrative case paradigms for the possessive forms are presented below in 4.1.4.3.

### 4.1.4.1. Non-reflexive Possessives

The non-reflexive Possessive markers refer to the person and number of the possessor.

### 4.1.4.1.1. Possessive affixes

The case marker precedes the Possessive suffix, for example, nala-wa-i 'my hand (ACC)' <hand-ACC-1SG>. The non-reflexive Possessive affixes (for class I nouns) are as follows: $-i$ 1SG, $-i$ 2SG, $-n i$ 3SG, $-u$ 1PL EX, $-f i 1 \mathrm{IPL} \mathbb{I N}$ (including the listener(s)), $-u$ 2PL, $-t i$ 3PL. Possessive forms of class II nouns are derived from the vowel-final stem, the stem-final $/ n /$ is not present. The possessive forms of the class II nouns differ from those of class I nouns in the following two points:
(i) in the Nominative in the $1^{\text {st }}$ person Singular the affix -mi is used instead of $-i$ : bi nenu-mi 'my brother', but bi ugda-i 'my boat';
(ii) in the Nominative in the $1^{\text {st }}$ person Plural Exclusive the affix -mu is used instead of $-u$, for example: bu neŋu-mu 'our brother', but bu zugdi-u 'our house'.

Below we present examples of Nominative possessive forms for the class I noun moxo 'cup' and the class II noun neyu 'younger sibling'.

| 1SG | moxo-i | nenu-mi |
| :---: | :---: | :---: |
| 2 SG | moxo-i | neทu-i |
| 3 SG | moxo-ni | nemu-ni |
| 1 PL EX | moxo-u | neпu-mu |
| 1 PL IN | moxo-fi | neøu-fi |
| 2 PL | moxo-u | neru: |
| 3 PL | moxo-ti | nenu-ti |

These paradigms differ from those adduced for the Northern dialect (Schneider 1936; Sunik 1968; Girfanova 1988; Kormušin 1998) in their lack of the pharyngeal $/ \mathrm{h} /$ in the $2^{\text {nd }}$ person Singular and $2^{\text {nd }}$ person Plural markers. The authors mentioned above cite these affixes in the form -hi and -hu, respectively. Since in the Bikin dialect described here the laryngeal $/ h /$ was lost (1.3.2.1), the affixes -hi and -hu do not occur. Thus, unlike in the Northern dialect described by these authors, in the Bikin dialect the forms of the $1^{\text {st }}$ person Singular completely coincide with those of the $2^{\text {nd }}$ person Singular, and the forms of the $1^{\text {st }}$ person Plural Inclusive coincide with those of the $2^{\text {nd }}$ person Plural.

The possessive affix -ti may express plurality either of the possessor or of the possessed noun (13.1.4). Further, there are some rare examples where - $t i$ is used in the $1^{\text {st }}$ person Plural Inclusive function, cf.: bua- $\boldsymbol{i}$-ti 'our God' (SKX 264), minti nenu-ti 'our younger brother' (Schneider 1937: 74), and also mi(n)ti b'a-ti 'we have found' <we.IN find.PERF-3PL> (Schneider 1937: 46). The same affix is probably historically present within the $1^{\text {st }}$ person Plural Inclusive personal pronoun minti 'we'.

### 4.1.4.1.2. Declension

In the oblique cases the class II nouns attach the same personal affixes as the class I nouns. However, the case affixes themselves differ. The possessive forms of both class I and class II nouns use the case markers appropriate for the corresponding declension (4.1.3). For example, in all persons class II nouns have the Accusative suffix -mA-instead of $-w A$ - used in the possessive forms of class I nouns, cf.: si nenu-me-i 'your brother (ACC)' <younger.sibling-ACC-2SG> and si zugdi-we-i 'your house (ACC)' <house-ACC-2SG>. In practice, however, analogous forms such as si nenu-we-i 'your brother' (ACC) are also attested.

In the recent past, the markers of the Dative could have two variations, $-d u$ and -di-. The variant -di- is normally a result of the assimilation of the original Dative suffix -du- to the following Possessive suffix if the latter contains the vowel /i/ (2.1.4.2), for example:

| enipe-di: (<enine-di-i) | 'to my mother' |
| :--- | :--- |
| <mother-DAT.1SG> <br> in'ei-di: $(<$ in'ei-di-i) | 'to my dog' |
| <dog-DAT.1SG> <br> ti: ana-di-ni | 'last year' |
| <that year-DAT-3SG> |  |

This fact is mentioned in Schneider (1936: 98). The assimilated forms were still in use in the 70s, at least in the Northern dialect recorded by Kormušin (for example, pauza dili-di-ni 'to the roe's head' <roe-DAT-3SG>). In the modern

Bikin dialect, analogy is leading to the gradual disappearance of the variant $-d i$ in favor of $-d u$. Although the former can still be observed, forms such as enine-du-i 'to my mother' and in'ei-du-i 'to my dog' have become more and more widespread. At the same time, the transitional variant of this marker -dü(with the high front round vowel) is also heard before $/ i /$ in the $1^{\text {st }}$ and $2^{\text {nd }}$ person Singular Possessive affix (enine-dü-i 'to your/my mother' <mother-DAT-1SG>).

On other regular morphonological processes which occur in the declension of nouns see the section "Phonological alternations" (2.3).

### 4.1.4.2. Reflexive Possessives

Reflexive possessive forms are not opposed for different persons, but only for the Singular possessor and the Plural possessor.

### 4.1.4.2.1. Reflexive Possessive affixes

The marker of the Singular Reflexive is $-i$ for class I nouns, and -mi for class II nouns. The marker of the Plural Reflexive is $-f i$ for nouns of both classes (a reduced form of the earlier -fai attested by Schneider and in the modern Northern dialect). Examples of reflexive possessive forms for the class I noun moxo 'cup' and the class II noun nequ 'younger sibling':
SG moxo-i
nemu-mi
PL moxo-fi
neŋu-fi

### 4.1.4.2.2. Declension

Reflexive possessive forms take the Plural suffix -ziga, indicating the plurality of the possessee, and are declined in the standard way.

```
(men-e) kusige-du-i 'to one's own knife'
<REF-0 knife-DAT-REF>
kusige-tigi: (< kusige-tigi-i)
<knife-LAT.REF>
men-e in' ei-ziga-zi: (< in'ei-ziga-zi-i) 'with one's own dogs'
<REF-0 dog-PL-INST.REF>
```

The case paradigms of the Singular reflexive forms and the Plural reflexive forms are basically similar to those of the non-reflexive forms, of the $1^{\text {st }}$ or $2^{\text {nd }}$ person Singular and the $1^{\text {st }}$ person Plural Inclusive, respectively (see 4.1.4.3). However, the declension of reflexive possessive forms shows one important
peculiarity in comparison with the declension of the non-reflexive possessive forms. They do not take the Accusative suffix, thus the Accusative appears to be homonymous with the Nominative. More discussion of this matter can be found in 22.4.1.1.

### 4.1.4.3. Illustrative paradigms

Examples of case paradigms of the class I noun (ugda 'boat') and the class II noun (neyu 'younger sibling') in the possessive forms are presented below. The difference in the Accusative between the Singular Reflexive and the $1^{\text {st }}$ and $2^{\text {nd }}$ person Singular non-reflexive, on the one hand, and between the Plural Reflexive and the $1^{\text {st }}$ person Plural inclusive, on the other hand, is reflected in the paradigms. Reflexive forms are cited only if they differ from non-reflexive forms.

|  | 'my boat' bi ugda-i 'one's boat' | 'your boat' <br> si ugda-i | 'his/her boat' nuani ugda-ni |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 'one's boat' men-e ugda-i |  |  |  |
| NOM | egad-i | ugda-i | ugd |  |
| ACC | ugda-wa-i | ugda-wa-i | ugda-wa-ni |  |
|  | egad-i (REF) |  |  |  |
| DAT | ugda-du-i | ugda-du-i | ugda | u-ni |
| LAT | ugda-tigi: | ugda-tigi: | ugda | gi-ni |
| LOC | ugda-la-i | ugda-la-i | ugda | a-ni |
| PROL | ugda-li: | ugda-li: | ugda |  |
| ABL | ugda-digi: | ugda-digi: | ugd | igi-ni |
| INST | ugda-zi: | ugda-zi: | ugd |  |
| DEST | ugda-na-i <br> ugda-na-mi (REF) | ugda-na-i | ugda-na-ni |  |
|  |  |  |  |  |
|  | 'our boat' (EX) | 'our boat' (IN) | 'your boat' | 'their boat' |
|  | bu ugda-u | minti ugda-fi | su ugda-u | nuati ugda-ti |
|  |  | 'one's boat |  |  |
|  |  | (PL)' |  |  |
|  |  | men-e ugda-fi |  |  |
| NOM | ugda-u | ugda-fi | ugda-u | ugda-ti |
| ACC | ugda-wa-u | ugda-wa-fi | ugda-wa-u | ugda-wa-ti |
|  |  | ugda-fi (REF) |  |  |
| DAT | ugda-du: | ugda-du-fi | ugda-du: | ugda-du-ti |
| LAT | ugda-tigi-u | ugda-tigi-fi | ugda-tigi-u | ugda-tigi-ti |
| LOC | ugda-la-u | ugda-la-fi | ugda-la-u | ugda-la-ti |


| PROL | ugda-li-u | ugda-li-fi | ugda-li-u | ugda-li-ti |
| :--- | :--- | :--- | :--- | :--- |
| ABL | ugda-digi-u | ugda-digi-fi | ugda-digi-u | ugda-digi-ti |
| INST | ugda-zi-u | ugda-zi-fi | ugda-zi-u | ugda-zi-ti |
| DEST | ugda-na-u | ugda-na-fi | ugda-na-u | ugda-na-ti |


| 'my younger sibling' bi nemu-mi | 'your younger sibling' | 'his/her younger sibling' |
| :---: | :---: | :---: |
| 'one's younger sibling' men-e neฑu-mi | si neru-i | nuani neyu-ni |
| neru-mi | neŋu-i | nemu-ni |
| neyu-me-i <br> neŋu-mi (REF) | neŋu-me-i | nevu-me-ni |
| neףun-du-i | neךun-du-i | nepun-du-ni |
| nevun-tigi: | neŋun-tigi: | neŋun-tigi-ni |
| negun-dule-i | netun-dule-i | nepun-dule-ni |
| nequn-duli: | nejun-duli: | neyun-duli-ni |
| netun-digi: | neךun-digi: | negun-digi-ni |
| neøun-zi: | neŋun-zi: | neŋun-zi-ni |
| nevu-ne-mi | neŋu-ne-i | neワu-ne-ni |


| 'our younger <br> sibling' (EX) | 'our younger sibling' (IN) | 'your younger sibling' | 'their younger sibling' |
| :---: | :---: | :---: | :---: |
| bu neŋu-mu | minti neŋu-fi 'one's younger sibling (PL)' men-e neŋu-fi | su neŋu: | nuati neyu-ti |
| пепи-ти <br> пепи-те-и | nequ-fi <br> neŋu-me-fi <br> neŋu-fi (REF) | neэu: <br> пепи-те-и | nequ-ti <br> neŋu-ma-ti |
| netun-du: | neŋun-du-fi | nepun-du: | nemun-du-ti |
| neŋun-tigi-u | neךun-tigi-fi | neضun-tigi-u | neŋun-tigi-ti |
| neŋun-dule-u | netum-dule-fi | neэun-dule-u | nepun-dule-ti |
| netun-duli-u | neyun-dule-fi | nejun-duli-u | netun-duli-ti |
| nerun-digi-u | nevun-digi-fi | neyun-digi-u | nevun-digi-ti |
| nemun-zi-u | neтum-zi-fi | neŋun-zi-u | nevun-zi-ti |
| neףu-ne-u | neŋu-ne-fi | пеппи-пе-и | neŋu-ne-ti |

4.1.4.4. Alienable Possessive (the suffix -ni-)

We will here consider the suffix - $\eta i$ - as encoding the category of Alienable Possessive. It is glossed as AL. The name of this category is arbitrary to a
considerable extent (on its function see 4.2.4). Sunik (1968) and Kormušin (1998) consider this suffix to express alienable possession, while Schneider (1936) does not use this term and simply describes the groups of nouns that demand - $\eta i$ - in the possessive form.

The suffix - $\boldsymbol{\eta} \boldsymbol{i}$ - is attached immediately after the noun stem. It does not refer to the person or the number of the possessor, but indicates a special type of possession relationship. Therefore it cannot substitute or eliminate the encoding of the possessor, and must obligatorily be followed by the regular Possessive affix referring to the possessor of the possessive noun phrase. The case affixes, if present, are located between - $\eta i$ - and the Possessive suffix. The Possessive Plural affix (4.1.2.3) precedes the Possessive affix and follows the Alienable Possessive affix -ni-.

| nua-ni ja:-ni-ni <br> <he-3SG cow-AL-3SG> <br> xatala-- $\boldsymbol{n}$-we-u | 'his/her cow' |
| :--- | :--- |
| <girl-AL-ACC-2PL> <br> bi kuyka mo:-ni-ne-i <br> <be cedar tree-AL-PL-1SG> | 'your (PL) girl (ACC)' |

The only two cases where the suffix -ni- appears without being followed by the Possessive affix are: (i) in the Partitive and the Proprietive forms (see 4.3), and (ii) when the alienable possessive forms are used predicatively in the Nominative (see 17.2.2.3).

In Schneider (1936: 101) a variant $-\eta u$ - is also mentioned. In our materials this did not occur in the Bikin dialect, but it is found in the Northern texts recorded by Kormušin.
Ulikte-yu-we-ni zomo-si-e-ni. lard-AL-ACC-3SG steal-IM-PAST-3SG
'He $\mathrm{i}_{\mathrm{i}}$ has stolen his $\mathrm{l}_{\mathrm{j}}$ lard'. (K 125)

```

\subsection*{4.2. Functions of nominal inflectional categories}

This section deals with the function of the number (4.2.1), case (4.2.2), and possessive forms (4.2.3, 4.2.4). The corresponding categories of adjectives and participles are addressed in Chapter 6 and section 7.9, respectively.
4.2.1. Functions of the number forms

\subsection*{4.2.1.1. Singular}

Apparently, all nouns have Singular forms.

\subsection*{4.2.1.1.1. Singular objects}

Prototypically, nouns in the Singular are employed to refer to a single entity (in general or in circumstances in which entities can be counted), for example, zugdi 'house', naŋña 'sky'. They may also be uncountable mass nouns (such as uli 'water', nute 'resin'). The nouns that function as non-possessive modifiers within a noun phrase are always in the Singular (13.7).

\subsection*{4.2.1.1.2. Generic and Plural notions}

Singular forms may denote generic notions (mo: 'trees' in general) and Plural notions. In fact, the Udihe noun in the Singular form is neutral in respect to number. Its meaning can be both Singular and Plural and is greatly influenced by its co-occurrence with other elements indicating number. Thus, nouns in the Singular may also refer to many countable objects in an appropriate environment (see also 4.2.1.2).

\subsection*{4.2.1.1.3. Quantified noun phrase}

All quantifiers normally require the head noun to be in the Singular, although the Plural is not entirely ungrammatical. See 13.3 for details.

\subsection*{4.2.1.1.4. Pair objects}

The Singular may denote paired objects (k'olo 'mittens', bugdi 'legs', yala 'hands', \(k u\) 'ai 'ears', ja: 'eyes', weige 'earrings', upta 'boots'). If they function as a subject, the predicate agrees with them in number, that is, it also takes the Singular form. In this case, the exact interpretation with respect to number can only be deduced from the context, cf. (142a) and (142b) where in both cases the subject has a morphologically Singular form.
(142) a. Bugdi: kägda:-ni. leg.1SG cold.PAST-3SG 'My legs are cold.'
```

b. Bi ugdi: manga uni:-ni.
me leg.1SG strong ache-3SG
'My leg aches very much.'

```

\subsection*{4.2.1.1.5. Marked singularity}

Singularity may be emphasized by the numeral omo 'one' when the corresponding unmarked nominal is inherently dual (143) or is a mass notion, cf. (144a) and (144b). In the former case the numeral omo 'one' may be combined with the pronominal adjective gagda 'other, another'.

\begin{tabular}{llll} 
b. & \begin{tabular}{l} 
omo \\
one \\
'one eye'
\end{tabular} & \begin{tabular}{l} 
gagda \\
other
\end{tabular} & eye
\end{tabular}
\begin{tabular}{lllll} 
a. & Seutigi & diga-na:-ni. & Bu-je \\
\(\mathbf{t}\) & eat-DIR.PAST-3SG & give-IMP.2SG \\
min-du & seutigi-we. & Kenku & m'ei & seutigi.
\end{tabular} 'They went to eat nuts. "Give me (some) nuts." - "All the nuts are empty."' (K 137)
b. Tipmele:-n(i) omo seutigi. fall.PAST-3SG one nut
'One nut fell.'(K 137)
Other examples of the stressed singularity of countable notions corresponding to uncountable mass nouns are omo samikta '(one) eye-lash' and omo ñukte '(one) hair' whose uncountable counterparts are samikta 'eye-lash', nukte 'hair', respectively, cf.:
a. Nukte-ni c'a-ma ede:-ni.
hair-3SG white-ADJ become.PAST-3SG
'His hair became white.'
b. Moxo-tigi omo ñukte tipmele:-ni. cup-LAT one hair fell.PAST-3SG
'One hair fell into the cup.'
For some nouns denoting foods that consist of separate small pieces special counting words are used when a single part is referred to: tuli 'peas' and omo
tuli ikte-ni 'one pea' (literally: 'one pea seed'), tuduze 'potatoes' and tuduze bombo-ni '(one) potato' (literally: 'potato ball').

\subsection*{4.2.1.2. Plural}

Plurality is not obligatorily marked morphologically on nouns. Apart from being encoded by the Plural suffixes, it may be expressed by other means such as a quantifier (13.3), or by semantic agreement with the adjectival modifier (13.2.2.) and/or with the predicate (15.1.1.2.2). The Plural of the object or the subject can be marked with the Distributive derivational suffixes on the verb (8.2.2.6). The mass and uncountable nouns including nouns co-occuring with the collective word getu (4.1.2.2) are singularia tantum.

\subsection*{4.2.1.2.1. Plural and associative meanings}

Although this is not obligatory, the Plural can be morphologically marked by the suffix -ziga (4.1.2.1), cf.: tege 'gown' and tege-ziga 'gowns'. The Plural when applied to inherently dual objects signifies reference to multiple pairs: \(k\) 'olo-ziga 'several pairs of mittens'. The Plural suffix -ziga- is regularly used with proper (kin) names and then it means the members of one family (kin), see example (146). The traditional names of the Udihe kin groups in the Plural (e.g. Sulän-ziga, Pioŋka-ziga, Kälun-ziga) are now used as sumames (1.2.5).
(146) Uti Pionka-ziga zugdi-ti.
that Pionka-PL house-3PL
'This is the house of the Pionka (a family).'
The Plural may sometimes have an associative meaning. Thus, Kanda mafa-ziga means something like 'the house people of the old man Kanda; the old man Kanda and people associated with him' (Kanda refers to a class of folklore characters, mafa 'old man'), but not 'several old men Kanda', as could be expected; and g'ai-ziga is 'crow and its friends' (Schneider 1937: 64).
a. Mamaka-ziga-la diger-ki-ni. old.woman-PL-FOC hide-PAST-3SG
'The old woman and those who were with her have hidden.' (K 107)
b. Ele bude-mi, ama-ziga enie-ziga soon die-1SG father-PL mother-PL xokto-li-ti nene-mi. road-PROL-3PL go-1SG 'I will die soon, I will take the road of my ancestors.' (SK 1139)
c. Guatu-ziga

Guatu-PL
'Guatu and his family' (SKX 318)

\subsection*{4.2.1.2.2. Conditions on Plural marking}

The Plural is usually morphologically marked on nouns denoting persons or animals (when they act like people in tales). The corresponding noun phrase serves as the subject and there is no other indication of plurality. Generally speaking, the Plural of a subject, especially when denoting a person, is more or less regularly marked, whereas the Plural suffix of a direct object appears less frequently. The Plural forms with the suffix -ziga- are regularly used in addresses.
 'Sisters, sisters, where are you going?'

The morphological Plural of the other case forms and of inanimate nouns is rare in spontaneously generated texts, although speakers recognize such forms as the correct ones. Inanimate nouns and nouns in the oblique cases may take the Plural marker when plurality is stressed, for example:
Jegdige hero \(i: \eta-k i-n i\) enter-PAST-3SG
tukca-ziga-la.
hare-PL-LOC
'The hero entered the hares' (place).'

Thus, the occurrence of the Plural suffix -ziga- seems to correlate with two ultimately interrelated factors: the animacy of the referred entity and the syntactic role of the corresponding noun phrase in the sentence. For animate nouns and for syntactically more active elements (which are normally topical as well) the plurality is more likely to be morphologically marked. On the other hand, inanimate nouns and those that correspond to 'lower' grammatical relations (indirect and oblique objects, and adjuncts) are more likely to remain morphologically unmarked with respect to number, even when they denote several countable entities. The rationale behind this observation is perhaps that the Plural tends not to be overtly marked if the corresponding element has already been mentioned in the text in the Plural. See examples (150a) and (150b), which are taken from the same text.

\footnotetext{
a. Tuge-zi quick-INST
'The dogs are running quickly.'
}
tukä:-iti in'ei-ziga.
b. In'ei-we tindayi:-si yene:-ti caixi.
dog-ACC let-PC.SS go.PAST-3PL further
'Having loosed the dogs they went further.'

In (150a) the dogs are introduced into the text for the first time, and the corresponding (subject) noun phrase is in the plural. In (150b), which occurs later in the texts, the same dogs are mentioned in the Singular. Their number has already been established in the previous piece of discourse, and therefore the Plural marker would here be redundant. If we accept that new elements are normally introduced in the text as subjects, in particular, of presentational constructions as in (150a); this explains why the Plural marker mostly appears in subject noun phrases.

\subsection*{4.2.1.3. Collective plural}

The collective Plural word getu forms collective nouns only from nouns denoting persons. Collective nouns with the word getu refer to a group of individuals: ñaula getu 'youth', baja getu 'rich people' (as a class), ibene getu 'Japanese people' (as a nation), zima getu 'guests'. The resulting compound expressions denote a mass notion; that is why they cannot be used in contexts which require an individualization of each entity, for example, they cannot be arguments of the postposition agda-la-ni 'between': * \(\tilde{n}\) 'aula getu agda-la-ni is ruled out, while \(\tilde{n}\) 'aula-ziga agda-la-ni 'between the boys', where the noun takes the non-collective Plural affix -ziga, is allowed. Typically, collective nouns with the word getu do not co-occur with other markers of plurality (-ziga or \(-n A-\) ) and cannot be quantified, however cf. the Northern sita getu-zige 'children' (SKX 326), wakča-i getu-ziga 'hunters' (SKX 286), and other similar examples.

Collective compound expressions trigger Singular verb agreement (151a), but for the adjective in a predicative position the semantically motivated Plural form in \(-\eta k u\) (6.1.2.1.1) is required (151b).
a. N aula getu etete-zeje-ni. youth PL work-FUT-3PL 'The young people will work.'
b. Ei ni: getu manga-nku. his person PL strong-PL
'These people are strong.'

\subsection*{4.2.1.4. Possessive plural}

The Possessive Plural suffix -nA-is mostly compatible with a restricted class of words, mainly kinship terms (omölo 'grandchild', nequ 'younger sibling', a'i 'older brother', exi 'older sister', xanta 'relation', ami 'father' (the Plural form means 'ancestors')) and certain other nouns denoting persons. It is fairly regular with the following nouns: sagdinta 'old people' (often shortened to sayta), anda 'friend', getu 'comrade', and sita 'child, cub', cf.: keige sita-na-ni 'kittens' (literally: 'cat's children'). The Plural possessive nouns with -nAfunction as heads of a possessive noun phrase (13.1), that is, the Plural marker \(-n A\) - always co-occurs with a Possessive suffix within a word, cf.:


Within the quantified noun phrases the Possessive Plural affix generally follows the same rules as the non-possessive Plural marker -ziga (4.2.1.2). An example of the quantified Possessive Plural noun phrase is: zube exi-ne-ni 'her two sisters' <two sister-PL-3SG>.

In the fixed expression ama-na(-ti) enie-ne(-ti) 'the father and the mother' (SK 1139) the possessive Plural indicates duality. Here possessive markers are optional.

\subsection*{4.2.2. Functions of the cases}

\subsection*{4.2.2.1. The Nominative}

The Nominative forms coincide with the bare noun stem, therefore the Nominative is not indicated in the glosses. The Nominative noun phrase
typically corresponds to the subject argument of transitive and intransitive verbs (Chapter 14) including (the pronominal) subject of the Personal Passive, which encodes the patient/theme argument (15.1.1.2). On the syntactic properties of the subject see 15.1.1. The Nominative is also the case of the subject in most (though not all) copular constructions (17.2.2) and the only argument of the subjective and sometimes objective Resultative (17.2.2.5). Beside this, Nominative nouns have the predicative function (17.2.2.1.3) and may serve as the (new or non-specific) direct object (4.2.2.2).

The Nominative noun phrase functions as a modifier within a larger possessive noun phrase (13.1); it is also used in appositions (13.8), in addresses (12.2.1.1), and as a quotation and label form of a noun. A second or third (essive) argument of a small number of verbs corresponds to the Nominative noun phrase (see 14.3.9 and 14.4.8).

Most postpositions govern the Nominative case, for example: tenku wei-le-ni 'on the stool' (see more in 10.2.3). Nominative forms are used in some "frozen" adverbial expressions meaning duration of time or location in time: gä:pa ineyi-ni 'all day long', dogbo ineni 'through night and day', and other analogous expressions of time (15.4.2.8).

\subsection*{4.2.2.2. The Accusative}

In a non-reflexive noun phrase the Accusative is usually marked with the suffix -wA- or -mA-. For the reflexive noun phrases the Accusative is homonymous with the Nominative (4.1.4.2). The prototypical function of the Accusative is to denote a direct object. On the definition of the direct object see 15.2. In the direct object function the Accusative case is not always morphologically marked, and even for non-reflexive noun phrases can sometimes coincide with the Nominative. The issue is not entirely clear because the two likely causes of this behavior, the phonetic and the semantic, sometimes work in combination. In functions other than the direct object the non-reflexive Accusative is always morphologically marked, but there is also a tendency to omit the Accusative marker on the noun phrase that corresponds to the patient/theme argument in Passive and Agentless Passive constructions (16.1.1, 16.1.2).

\subsection*{4.2.2.2.1. Functions of the Accusative}

The Accusative noun phrase corresponds to the object argument of the transitive verbs with different semantic roles: patient, theme, content, goal, stimulus, etc. (14.3, 14.4). The case is inherited by the corresponding (non-pronominal) argument in passive constructions, as distinct from English and many European languages, both in the Passive (16.1.1) and Agentless Passive (16.1.2). The Accusative (or the Dative) marks the causee in the

Causative constructions (16.1.4) and the only argument of the objective Resultative (17.2.2.5.2). It is also used to indicate the addressee of the imperative in indirect speech constructions (18.4.4). The double object construction is addressed in 16.2.1.

A few nouns (13.6.2) and postpositions (10.2.3) take an Accusative argument. Adverbial elements are marked by the Accusative if they denote a span of time (15.4.2.6).

\subsection*{4.2.2.2.2. Phonetically-driven absence of the Accusative}

The Accusative marker -wA- can be dropped when speaking quickly, especially after the round vowels \(/ o /\) and \(/ u /\). For example, the Accusative form au-wa 'cap' is often replaced by the Nominative au 'cap'. The same occurs if the word ends in \(-w A\) and \(-f A\), for example mäwa 'heart', inofo 'bird cherry tree', mafa 'old man, bear' (which is rarely found in texts with the Accusative marker), or if the following word begins with wa-, such as the verb wa- 'kill'. Note, however, that the topicalized object that undergoes left- or rightdislocation is always marked by the Accusative, even if its non-topicalized counterpart is not.
(153) Nada au teti-gi-e-nie joxoso-mo
seven cap dress-REP-PAST-3SG kettle-ADJ
au-wa.
cap-ACC
'He put on seven caps, caps made of kettles.' (K 181)

\subsection*{4.2.2.2.3. Semantically-driven absence of the Accusative: non-specific objects}

There is a tendency to avoid the overt Accusative when the object has a non-specific reading. This tendency seems to be stronger in the Northern dialect than in the Southern dialect, though in neither does it approach a strict rule. The examples below are mostly from the Northern texts. They illustrate either the non-specific (in the sense of not necessarily existing) reading of the direct object (145), or its generic reading (146), or mass objects (147).
\begin{tabular}{llll} 
a. & Sugzä:-da & e-mu & diga \\
fish-FOC & NEG-1PL.EX & eat & meat-FOC \\
e-mu & diga. & & \\
NEG-1PL.EX & eat & & \\
& \\
& 'We eat neither fish nor meat.' (K 174) &
\end{tabular}
```

b. Bi sun-du gida bu-zene-i. me you-DAT spear give-FUT-1SG 'I will give you a spear.' (K 176)

```

\section*{c. We:-tigi nene-ze-fi seutigi}
forest-LAT go-SUBJ-1PL.IN nut
diga-na-za-fi.
eat-DEST-SUBJ-1PL.IN
'Let us go to the forest and eat some nuts.' (K 137)
a. \(\begin{array}{ll}\text { dai-wa-si-ze-i } \\ \text { why } & \text { drop.in-CAUS-MUL-SUBJ-2SG }\end{array} \quad n i:-l e . ~\)
man-CONT
'Why do you make people drop in?' (K198)
b. Uti sita-ni bui magi-e-ni.
that son-3SG animal kill-PAST-3SG
'Her son was killing animals.' (K 179)
a. Belie sutu akpu-nda:-ni.
girl rubbish sweep-SEM.PAST-3SG
'The girl swept out the rubbish.' (K 128)
b. Ba:-la to: ilani-e-ni. nature-LOC fire light.PAST-3SG
'She made a fire outside.' (K 193)
c. Xunepte läsi s'olo:-ni.
ash very scoop.PAST-3SG
'He scooped up very much ash.' (K 105)
4.2.2.2.4. Semantically-driven absence of the Accusative: specific new objects

In the Northern dialect specific nouns can also lack a morphologically marked Accusative. They are likely to be zero-marked in the object position if the corresponding participant is being introduced in the text for the first time, cf.:
a. Talu-ma birch.bark-AD
wo:-ni, make.PAST-3SG
 cradle make.PAST-3SG small cradle talu-ma emuge uta-du birch.bark-ADJ cradle that-DAT 'She made a birch bark cradle, a small birch bark cradle for him.' (K 181)
\(\begin{array}{lll}\text { c. Senmi gakpa:-ni } & \text { uta-wa agay-ki-ni. } \\ \text { arrow } & \text { shoot.PAST-3SG } & \text { that-ACC step-PAST-3SG }\end{array}\) 'He shot an arrow and she stepped over it.' (K 173)
\begin{tabular}{lll} 
d. Jegdige ba: xo:n-dule-ni & ule:-ni \(\quad\) agdu. \\
hero tace top-LOC-3SG & dig.PAST-3SG hole \\
'The hero dug a hole in the forest.' (K 132)
\end{tabular}
\begin{tabular}{lll} 
e. Xogdo \(\quad\) xebu-si-e-ni & we: \\
spear take-MUL-PAST-3SG & hill \\
dulanki-le-ni & asamu-o:-ni & xogdo-wo. \\
middle-LOC-3SG aim-PAST-3SG & spear-ACC \\
& 'He took a spear and aimed it at the middle of the hill.' (K 169)
\end{tabular}

Note also that the object is likely not to have the Accusative marker if the verb is in the Imperative. In fact, in this case the object is often appearing in the text for the first time.
a. Zekpu-ne-i
zeu.
eat-DEST-IMP.2SG
food
'Come to eat some food.' (K 117).
b. Čuige bu-je.
fire.stone give-IMP.2SG
'Give me a fire stone.' (K 120)

Finally, Accusative marking is more likely to be absent in a non-finite embedded clause than in an independent clause. In a non-finite embedded clause it may occur even if the object is formally definite.
\[
\begin{array}{llll}
\text { Mafa imo:-ni } & \text { bua } & \text { tue-ni } & \text { diga-mi }  \tag{159}\\
\text { bear fat-3SG } & \text { place } & \text { winter-3SG } & \text { eat-INF } \\
\text { ceani. } \\
\text { eat } & \text { enough-3SG }
\end{array}
\]

\subsection*{4.2.2.2.5. Interaction of several factors}

Thus, the Accusative marker can be absent for semantic and phonetic reasons. According to the semantic tendency, more fully manifested in the Northern dialect, the Accusative case marking is likely to be absent in the direct object noun phrase if it is: (i) non-specific (including generic and mass nouns); (ii) a specific count noun not mentioned previously in the text, and therefore indefinite. In all these cases, however, the morphologically marked Accusative is not ruled out either, for example (160a) shows a non-specific noun phrase in an object role which is inflected for the Accusative suffix -wA. Alternatively, specific and previously mentioned (definite) noun phrases may sometimes have
a bare form in the direct object role, which can hardly be explained phonologically, as in (160b).
\begin{tabular}{lll} 
a. \begin{tabular}{l} 
Ono bie \\
how be.PRES.HAB
\end{tabular}\(\quad\)\begin{tabular}{l} 
mamasa-wa \\
'Wife-ACC
\end{tabular} & \begin{tabular}{l} 
gele-i? \\
look.for.-2SG
\end{tabular} \\
'What sort of wife do you want?' (K 173)
\end{tabular}

Of course, several of the factors mentioned can work in parallel. In (161) the absence of the Accusative marker can be explained either by phonological considerations (the potentially adjacent syllable beginning with \(/ f /\) or \(/ w /\) ) or by the non-specific/indefinite character of the object, or by its co-occurrence with the Imperative verb.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{a.} & Omo & gagda nala-zi & oño & wo:-i. \\
\hline & 'She is mak & \multicolumn{2}{|l|}{'She is making ornaments with one hand.'} & \\
\hline \multirow[t]{2}{*}{b.} & Inofo & xoa-ja. & & \\
\hline & bird.cherry & cut-IMP.2S & & \\
\hline \multicolumn{5}{|c|}{'Cut a bird cherry tree.' ( \(\mathrm{K}^{\text {113) }}\)} \\
\hline \multirow[t]{3}{*}{c.} & nene-mi & ogbö wa:-ni. & & \\
\hline & go-INF & elk kill.PAST-3 & & \\
\hline & 'On the way & , he killed an elk.' ( & & \\
\hline
\end{tabular}

\subsection*{4.2.2.3. The Dative}

The Dative case marker is \(-d u\). The Dative expresses the semantic roles of benefactive/malefactive, recipient, goal, direction, and the like. It marks the recipient/benefactive/goal argument of two-place (14.3.7) and three-place (14.4.1) verbs. In some copular constructions (17.2.3) the Dative corresponds to the single experiencer animate argument of the experiential predicates (the desiderative state, physical or mental state). A specific function of the Dative is to encode the agent in Passive sentences (see 16.1.1) and the causee of causative verbs derived from transitives (16.1.4.3.2).

Furthermore, in spite of its conventional name, the Dative commonly expresses a local meaning. In this function it may be interchangeable with the Locative (see 4.2.2.5). Thus, in the valence patterns that require a Locative argument (14.3.6 and 14.4.7) the Dative is also possible for a certain group of verbs. As an adjunct, the Dative noun phrase can express the local relationship (15.4.1.5) including those adjuncts that are very commonly found in existential
sentences (17.2.1.3), as well as the temporal relationship (15.4.2.1), and goal/benefactive-type (15.4.4.2) adjuncts.

\subsection*{4.2.2.4. The Lative}

The suffix of the Lative is -tigi. This suffix is frequently phonetically reduced to \(-t i\) : because \(/ \mathrm{g} /\) may be pronounced as a non-occlusive \(\gamma\), and further reduction leads to the contraction of \(\gamma\) with the following vowel (tigi>tipi>tii: \(>t i\) ).

The prototypical function of the Lative case is to express direction ('toward, to'). The Lative noun phrase functions as an argument with this meaning in the valence patterns described under 14.3.3 and 14.4.4. Obviously, it also functions as a spatial adjunct (15.4.1.2). Its extended function as an adjunct is to express the final point of time (15.4.2.5) and, on an even more abstract level, purpose (15.4.4.1). The Lative also denotes the recipient argument (addressee) of some verbs of transfer of information, see 14.3.2 and 14.4.3. Such an argument corresponds to the grammatical relation of the indirect object (15.3).

\subsection*{4.2.2.5. The Locative}

\subsection*{4.2.2.5.1. Functions of the Locative}

The Locative suffix is \(-l A\) for the class I nouns and \(-d u l A /-d i l A\) for the class II nouns. The most common function of this case is to express spatial location (location in/on/at/by something and movement into something, as opposed to the Lative case which expresses rather the direction towards/to the object). The Locative noun phrase functions as an argument in the clauses where the predicate follows the valence patterns 14.3.6 and 14.4.7 and may correspond to the patient/theme argument in the so-called Locative object construction (16.2.4).

As an adjunct it can express location (15.4.1.1), a point in time (15.4.2.2) and, in its metaphorical function, the source of information (15.4.3.2), a cause (15.4.3.3), and a group of which some member is involved in the situation under discussion (15.4.3.2.1). Occasionally, the Locative expresses a possessor in copular constructions, such as 17.2.1.3, although in the majority of cases such constructions have an existential meaning and the Locative noun phrase in them functions as a place adjunct.

\subsection*{4.2.2.5.2. The Locative vs. the Dative}

In the local meaning (both as an argument and adjunct) the Locative noun phrase is often interchangeable with the Dative noun phrase. The Dative vs. Locative marking depends on the character of the noun phrase itself. For example, some verbs co-occur with the following Dative noun phrases: zugdi-du 'in the house', Bali-du 'in (the city of) Khabarovsk', kniga-du 'in the book', kluba-du 'in the club'. At the same time, they co-occur with the following Locative noun phrases: mo:-lo 'on the tree', namu-le 'at the sea'. The word zugdi 'house' in combination with the verb bagdi- 'live' takes the Locative if the house does not belong to the subject participant, cf. (162a) and (162b):
\(\left.\begin{array}{lllll}\text { a. } & \text { Bi xonto zugdi-le-ni } & \text { bagdi-mi. } \\
\text { me other house-LOC-3SG } & \text { live-1SG }\end{array}\right]\)\begin{tabular}{llll} 
& 'I live in somebody else's house.' & \\
b. & Bi ei \(\quad\) zugdi-du & ei-mi & bagdi. \\
Me this house-DAT & NEG-1SG & live \\
'I don't live in this house.' & &
\end{tabular}

The nouns that denote living people (and the personal pronouns) are normally in the Locative when they have the locational meaning, for example: Pakula-la 'at Pakula's', ni:-le 'at the man's', Koko-lo 'at Koko's'. In general, the Dative seems to be preferred in the meaning 'in' and the Locative corresponds more to the English prepositions 'on' or 'at'; compare: uli-du 'in the river (DAT)' and uli-le 'at the river (LOC)'. However, the distribution of the Locative and the Dative in the local sense does not follow any strict semantic or phonological criteria and has to be learned for each individual instance.

For certain verbs and constructions the Dative/Locative interchange is not possible, see 14.3.6.2. For example, the copular construction 'be married to someone' (of a woman) always requires a Dative argument (17.2.2.2.2).

\subsection*{4.2.2.6. The Prolative}

The Prolative is encoded by the suffix -li for class I nouns and -duli-dili for class II nouns. It functions as an argument for a few verbs (14.3.8) or as a spatial adjunct (15.4.1.4) and generally denotes movement along or through something. In the temporal use its meaning is something like 'day by day', 'week after week', etc. (15.4.2.7).

\subsection*{4.2.2.7. The Ablative}

The marker of the Ablative is -digi for both class I and class II nouns. Its prototypical meaning is to express movement away from or out of a location. As an argument of movement verbs it is found in the valence patterns 14.3.5 and 14.4.6. As an adjunct, the Ablative noun phrase can have spatial (15.4.1.3), temporal (15.4.2.3), or a metaphorical causal (15.4.3.3) meaning. A special use of the Ablative is within the comparative construction (6.3.4 and 10.1.7.3) where it denotes the standard of comparison.

\subsection*{4.2.2.8. The Instrumental}

The Instrumental case is marked by the suffix \(-z i\). As an argument and an adjunct, the Instrumental noun phrase can have a large range of meanings that can be covered by the general label 'circumstance' or 'means' (the means employed for the action). On valence patterns with the Instrumental case see 14.3.4 and 14.4.5. The Instrumental noun phrase can express the period of time (15.4.2.4). As a manner adjunct it denotes means of conveyance, price, instrument, circumstance, sometimes the cause, the way of transmission of information, the source of information, or the material used (15.4.3). The comitative meaning of the Instrumental noun phrase ('with somebody') is common. The Instrumental comitative noun phrase functions as a determiner within a larger noun phrase (13.6.1) or as a kind of a comitative adjunct (15.4.6). Besides, it can mark the counter-agent participant of a reciprocal situation (16.1.6.2.1, 14.3.4.2).

\subsection*{4.2.2.9. The Destinative}

The Destinative case marked with the suffix \(-n A\) - has a rather limited use. Generally speaking, it denotes either an object meant, designed, or destined for a particular person or another object, or a destination itself. In the first meaning, the destinative object noun phrase functions as a verbal argument (16.2.2). This has the following two consequences: first, the destinative object co-occurs only with a special class of verbs, namely, verbs of appearance and creation (see 14.2.1.3); second, its form should contain a reference to its potential 'recipient' (benefactive or goal). Indeed, as mentioned in 4.1.3, only possessive nouns take the Destinative case; so the Destinative form must necessarily contain a Possessive affix that agrees in person and number with the potential possessor (benefactive) of the destinative object.

In its second meaning, the destinative noun phrase functions as a clausal adjunct (15.4.4.3). In this case it expresses the destination of the object independently present in the clause and can be translated into English with 'as':
mamasa-na-ni 'as a wife for him'. Similarly, when used predicatively in certain copular constructions (17.2.2.2.1) the destinative noun phrase denotes not the object designated for a particular purpose, but the destination ('as something for somebody'). The benefactive participant is cross-referenced by the possessive affix on the destinative noun. Note that the Singular Reflexive Possessive affixes on the destinative noun do not in this case have a reflexive meaning, but are used to express general destination: kusige-ne-mi 'as a knife, for the knife' <knife-DEST-REF>.

\subsection*{4.2.3. Functions of the possessive forms}

The possessive forms head the possessive noun phrase (on its syntax see 13.1). The modifier of the possessed noun in such a construction is either a noun or a personal pronoun (which can be anaphorically dropped). Both non-reflexive (163a) and Reflexive (163b) Possessives are used in this case.
\(\begin{array}{lll}\text { a. (bu) zugdi-u } & \text { 'our (EX) house' } \\ & \text { giuse ule:-ni } & \text { 'roe's flesh' } \\ & \text { (bu) zugdi-u } & \text { 'our (EX) house' } \\ \text { b. } \begin{array}{ll}\text { (men-e) zugdi: (< zugdi-i) } & \text { 'one's house (SG)' } \\ & \text { (men-e) zugdi-fi }\end{array} & \text { 'one's house (PL)' }\end{array}\)

The possessive forms within a possessive noun phrase cover an array of functions.

\subsection*{4.2.3.1. Possessive function}

The prototypical function of the possessive construction is to express possession, both inalienable possession (body parts like bi gala-i 'my hand', in'ei igi-ni 'dog's tail' and kinship relations such as si sita-i 'your child', bi neyu-mi 'my brother') and ownership/belonging (mama tege-ni 'grandmother's gown'). Kinship terms mostly have possessive forms unless used in generic contexts. The presence of the possessive affix may affect the meaning of the word, cf. mafa 'old man' and mafa-i 'my husband, your husband', mafa-ni 'her husband', etc.

In this function the possessive affixes are used both for anaphoric and cataphoric relations. An example of backwards anaphora is as follows.
```

Sumuxi ag'a-wa-ni wentile-gi-e-ni
hazel.hen
emende-du.
witch-DAT
'He threw the witch her elder brother hazel-hen.' (SKX 114)

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\subsection*{4.2.3.2. Non-possessive function}

Besides the prototypical possessive function, the grammatical possessive relation is extended to express other semantic relations. Some of those meanings are marked in certain languages by the Genitive construction, which Udihe lacks. In Udihe the \(3^{\text {rd }}\) person Singular non-reflexive Possessive affix is employed here, while other Possessive affixes are not normally possible.

\subsection*{4.2.3.2.1. The part/whole relationship}

The part/whole relationship is expressed by a possessive construction. The part/whole relationship underlies the use of the 'spatial' words that are semantically dependent on another noun because they denote a certain part of it. Hence they cannot be used without a Possessive suffix, which indicates that relationship. Used with different local cases, they function as spatial postpositions (10.2.1).
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{(165)} & tege ukie-ni & 'sleeve of a gown' & tanki-ni & \multirow[t]{3}{*}{\begin{tabular}{l}
'its center' \\
'its edge' 'the edge of a bowl'
\end{tabular}} \\
\hline & olondo texe-ni & 'ginseng root' & kä:-ni & \\
\hline & pauza ule:-ni & 'roe's meat' & moxo kä:-ni & \\
\hline & dulanki-ni & 'its middle' & \(u l i ~ k a ̈:-n i\) & 'the bank of a \\
\hline & & & & river' \\
\hline
\end{tabular}

A kind of part/whole relationship holds between the object denoted by an uncountable mass noun and a countable entity which denotes a piece of \(i t\), for example: xauje pei-ni 'a sheet of paper'. Cf. also: buniga xokto-lo-ni 'on the road to the realm of death'<realm.of.death raod-LOC-3SG> (Schneider 1947: 42)

A subtype of the part/whole relationship is the relationship between a substance and its container, for example: 'ai bayka-ni 'a bottle of vodka', imo: namanki-ni 'a saucer of fat'. Such constructions denote the specific and definite substance that 'belongs' to the specific container. Therefore they cannot be used to express an abstract measure of substance, in which case the non-possessive quantified noun phrase is used (13.3). Compare (166a) where a
concrete bucket of water is meant and (166b) where the corresponding noun phrase is non-specific and therefore the Possessive affix is missing.
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
Mulexi uli-we-ni \\
bucket \\
mantila:-ti.
\end{tabular} \\
& water-ACC-3SG
\end{tabular}

\subsection*{4.2.3.2.2. Species relationship}

When a proper noun qualifies another noun, the latter takes the Possessive \(3^{\text {rd }}\) person Singular suffix, for example:
```

Kančuga se:-ni
udie a:nta-ni
Biki uli-ni
lusa $\tilde{n}^{\prime} a u l a-n i$
ninka sexi-ni
Laubelaza we:-ni
ibene golo-ni
lusa keje-ni
ninka golo-ni
Kungede bä:sa-ni

```

\author{
'kin (of) Kanchuga' \\ 'Udihe woman' \\ 'the river Bikin' \\ 'Russian boy' \\ 'Chinese cloth' \\ 'the hill Laubelaza' \\ 'Japan (Japanese country)' \\ 'the Russian language' \\ 'China (Chinese country)' \\ 'the river Kungede'(K 154)
}

In the latter case the proper noun Kurgede actually means 'empty': compare the corresponding adjectival construction without the Possessive marker kuygede \(b a ̈: s a\) 'empty river'. The possessive form Biki-ni '(the river) Bikin' (with the \(3^{\text {rd }}\) person Singular Possessive suffix) occurs as well and may be a reduced variant of the full construction Biki uli-ni 'the river Bikin'. A similar relationship holds between the names of the trees and the word mo:, for example: kujka mo:-ni 'cedar (tree)', talu mo:-ni 'birch tree' (literally: 'birch bark tree').

The possessive forms, however, are not used in the appositional constructions which denote a human being (13.8).

\subsection*{4.2.3.2.3. Gender relationship}

The possessive noun can mean 'female' or 'male'. Different words are used with respect to different types of fauna: for birds and fishes: eñece-ni 'female' and
amina-ni 'male', for small animals guas'a-ni 'female' and mugeti-ni 'male', for most hoofed animals eni-ni 'female' and logoso-ni 'male', for some other animals atiga-ni 'female' and zei-ni 'male'.
a. ñau (en'ese-ni)
ñau amina-ni
b. z'oto guas'a-ni
z'oto mugeti-ni
c. käŋa eni-ni
käya logoso-ni
d. nakta atiga-ni
nakta zei-ni

\author{
'hen' 'rooster' \\ 'otter female' \\ 'otter male' \\ 'deer female' \\ 'deer male' \\ 'wild sow' \\ 'wild boar'
}

The names of animal young are expressed by the possessive phrase as well: ñau sita-ni ‘chick' (literally: 'hen's child'), keige sita-ni 'kitten' (literally 'cat's child').

\subsection*{4.2.3.1.4. Quality relationship}

The noun-modifier of the possessive construction can express the quality or the attribute, and correspond to relational adjectives or compounds in the European languages, for example:
```

zube se: ule:-ni
zakta sile-ni
kü: gob'o-ni
'meat of two kinds'
'millet gruel'
'bee' (literally 'honey fly')

```

The semantic relationship between the components of such constructions is not specified within the construction itself, and their meaning varies largely. Note, however, that the type of material from which the object is made is expressed not with the possessive construction but with the relational adjectives (6.4.1.2.1).

\subsection*{4.2.3.1.5. Measure relationship}

Possessive nouns express a measure or feature of the object. The semantic structure of these nouns necessarily invokes some relation to another entity, therefore they are never used without a Possessive suffix.
gugdala-ni
boko-ni
dä:mila-ni
'its height'
'its color'
'its thickness'

\author{
sagdila-ni \\ bi cenele-i uli suntele-ni bayza eyme-le-ni umac'ala-ni \\ 'its size' \\ 'my weight' \\ 'the depth of the river' \\ 'the width of the board' \\ 'its length (of something short)' \\ (literally: its shortness)
}

\subsection*{4.2.3.3. Definiteness}

Apart from the possessive meaning (possession in the strict sense and also the non-possessive relation between two entities), the \(3^{\text {rd }}\) person Singular non-reflexive Possessive suffix -ni optionally encodes the definiteness of the corresponding noun. By definiteness we mean identifiability, that is, the ability of both the speaker and the listener to uniquely identify a corresponding concept and establish its clear reference to a particular extra-linguistic entity. The noun marked as definite by the \(3^{\text {rd }}\) person suffix \(-n i\) is not a head of a possessive noun phrase. It neither has an overt ("possessive") modifier, nor is there a possessor recoverable from the context.

\subsection*{4.2.3.3.1. Situational definiteness}

When the definiteness is set by the situation of speech itself, the Possessive suffix -ni denotes the definiteness of the corresponding noun, defined situationally. In examples (171) the potential possessor cannot be reconstructed at all, and the only function of the suffix -ni seems to be to encode situational definiteness. In (171b) the potential possessor of the object denoted by the word unta-ni 'his boots' is not known, and in any case has not been mentioned earlier in the text. Example (171c) describes a situation where the woman is dreaming about seven men she met earlier. They have been mentioned previously in the text, and the corresponding noun is marked by a Possessive suffix.
(171)
a. Ei mo:-wo-ni this tree-ACC-3SG kusige-zi
knife-INS \(e-z i\) tinda.
cut
'Do not cut these trees with knives.'
b. Xokto-wo b'a-ha-ni.
footprint-ACC
find-PAST-3SG
Gäya wanimi,
strides wide strides wide
\begin{tabular}{|c|c|}
\hline \begin{tabular}{l}
unta-ni sagdi \\
boots-3SG large
\end{tabular} & bi-si-ni. \\
\hline \multicolumn{2}{|l|}{'He found footprints. The strides had been long, and the boots had been large.' (Schneider 1935a: 4)} \\
\hline Mamasa-ni wife-3SG & t'osi: nada kotoi-ti emekte-iti. dream.PRP seven bald-3PI come-3PL \\
\hline \multicolumn{2}{|l|}{'His wife is dreaming: those seven bald men are coming.'} \\
\hline \[
\begin{array}{ll}
\text { Sei-ni } & \text { wac'a } \\
\text { salt-3SG } & \begin{array}{l}
\text { little }
\end{array}
\end{array}
\] & \\
\hline 'Not enough salt & \\
\hline
\end{tabular}

\subsection*{4.2.3.3.2. Situational definiteness in the expressions of time}

Situational definiteness underlies the use of the \(3^{\text {rd }}\) person Possessive suffix with some words expressing periods of time. The possessor in this case is not recoverable from the context. These are the following words:
(i) names of seasons: tue 'winter, in winter', zua 'summer, in summer', bolo 'autumn, in autumn', neki 'spring, in spring';
(ii) parts of the day: ineri 'day, in the day', dogbo 'night, at night', sikie 'evening, in the evening', etc.;
(iii) the year: apa 'year'.

In most cases these words must take the \(3^{\text {rd }}\) person Possessive affix, cf.:
\(t i: a \eta a-d u-n i\)
ana-ni bagdini
apa-ni malaktaini
gä:ŋך dogbo-ni
gä:クa ineni-ni
ti: aya-du-ni
neki-ni dexi
'last year'
'at the beginning of the year'
'at the end of the year'
'every night'
'every day'
'last year' <that year-DAT-3SG> 'until (this) spring' <spring-3SG till>

Here the Possessive affix seems to express situational definiteness. However, these words are also used without the Possessive affix, and in this case their meaning is non-specific, generic or indefinite. Compare (173a) with the definite interpretation, and other examples in (173) which do not refer to any specific time. In (173b) the word tue 'in winter' is in fact adverbialized (see 10.1.2.1).
\begin{tabular}{llll} 
a. \begin{tabular}{l} 
Bu-je \\
give-IMP.2SG \(\quad\) me-du
\end{tabular}\(\quad\)\begin{tabular}{l} 
kusige- \(i\)
\end{tabular}\(\quad\)\begin{tabular}{l} 
omo \\
zua-zi-ni.
\end{tabular} \\
summer-INST-3SG & \\
'Give me your knife for one summer.'
\end{tabular}
b. Tue mafa yua-ini. winter bear sleep-3SG. 'In winter (every winter) the bear sleeps.'
c. Bi neki-we aju:-mi. me spring-ACC like-1SG.
'I like spring (in general).'
d. Bi xusa-la bolo-wo ise:-mi. me picture-LOC autumn-ACC see.PAST-1SG 'I saw autumn in the picture.'

\subsection*{4.2.3.3.3. Contextual definiteness}

Definiteness may be defined through the context, namely, through a certain relationship with a previously mentioned element, which makes the corresponding noun definite as well. In (174a) the noun sugzä-ni 'fish' takes a Possessive affix showing that it is opposite to the 'animals' living near the stream because fish can be considered part of the river. In (174b) the noun tüe-ni 'the pole' takes a Possessive suffix because of its semantic relationship to the word eke-le-ni 'in this yard'.
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
Kungede bäsa-ni \\
empty river-3SG
\end{tabular} & \begin{tabular}{l} 
bui-de \\
animals-FOC
\end{tabular} & \begin{tabular}{l} 
egdi \\
suny
\end{tabular} \\
sugzä:-ni-de \(\quad\) egdi. & & \\
fish-3SG-FOC many & &
\end{tabular}
'This is the river named Empty, it has a lot of animals and a lot of fish.' (K 154)
b. Eke-le-ni yard-LOC-3SG \(b i-s i-n i\)
\(b e-P A S T-3 S G\) tüe-ni. Boxoso tüe-ni drug'afa pole-3SG hunchback pole-3SG in.the.middle climb-PAST-3SG 'In his yard, there was a pole. The hunchback climbed up to the middle of the pole.'

In both cases in (174) the relationship encoded with the Possessive suffix can perhaps be viewed as a part/whole relationship and it is difficult to distinguish it from the relational meaning described in 4.2.3.2. However, such an interpretation is problematic in certain examples, such as (175), unless we consider the hares as actually part of the willow thicket:
(175) sakt'ai tukca-na-ni
willow.thicket hare-PL-3SG
'the hares living in the willow thicket'

Examples such as (174) and (175) can be characterized as instances of "reference-point" constructions. As has been suggested in the literature (Langacker 1991: 67-180, 1993), reference-point constructions are based on "the ability to invoke the conception of one entity for the purpose of establishing mental contact with another, that is, to single it out for individual conscious awareness" (Langacker 1993: 5). The basic idea is that, for example, in (174b) the entity tüe-ni 'pole' is conceived through its particular relationship to a previously evoked concept 'the yard', and since the 'yard' in this context is definite, this makes the noun phrase tüe-ni definite as well. Cross-linguistically, possessive constructions are known to play a central role among reference-point constructions. Likewise, in Udihe the reference-point relationship is marked by the Possessive affix -ni.
The expression of the reference-point relationship is not grammatically obligatory in Udihe and ultimately depends on how the speaker perceives the situation. For example, in (174a) the word sugzä-ni 'fish' bears the Possessive suffix, and apparently the speaker wants to emphasize its relationship to a previously mentioned river. The following example is similar to (174), and is taken from the same text.
\begin{tabular}{llll} 
Dulumtu & bäsa-ni, & o-lo-do & bui anči, \\
Dulumtu & river-3SG & this-LOC-FOC & animal no \\
sugzä:-da & anči. & & \\
fish-FOC & no. & &
\end{tabular}
'(This is) the river Dulumtu, where there are neither animals nor fish.' (K 153).

In (176), which describes a situation identical to (174a), the word sugzä 'fish' is not marked by a Possessive suffix expressing the reference-point relationship, apparently because the speaker chose not to stress it.

Markers of contextual definiteness are fairly frequently hosted by the head of a relative clause, for example:
```

(177) A:nta e-iti teh ninta teh-i-ni
woman NEG-3PL sit man sit-PRP-3SG
bua-la-ni, sondo.
place-LOC-3SG sin
'Women do not sit on the place where men sit, it is a sin.' (SKK 314)

```

\subsection*{4.2.3.3.4. Partitive function}

The \(3^{\text {rd }}\) person Plural possessive suffix - \(t i\) may serve to select an object which is a part of a larger group of definite objects ('one of them'). Its usage in this
function seems to be restricted to kinship terms and substantivized adjectives and quantifiers.
\(\begin{array}{ll}\text { c'o ic'a-ni-ti } & \text { 'the youngest of them'<most small-AL-3PL> (K 139) } \\ \text { zune-ti } & \text { 'both of them' }\end{array}\)
See also the examples in 11.1.3.2.

\subsection*{4.2.4. Functions of the Alienable Possessive}

The suffix -ni- was conventionally said in 4.1.4.3 to express alienable possession. The alienable possessive forms marked with the suffix -ni- take an obligatory Possessive marker and are used as the head of the possessive noun phrase (on its syntax see 13.1). Thus, this suffix brings an additional meaning to the possessive construction. The meaning of the alienable possessive forms is not homogeneous, and clusters around five types: (i) temporary ownership (4.2.4.1); (ii) alienable possession (4.2.4.2); (iii) an abstract associative relationship through a certain activity (4.2.4.3); (iv) a substitutional meaning 'instead of something' (4.2.4.4); (iv) the predicative function (4.2.4.5).

\subsection*{4.2.4.1. Temporary ownership}

Generally speaking any noun (including proper names) can take the suffix - \(\eta\) iin certain contexts. This suffix indicates temporary ownership. Often the object used to be in the inalienable possession of another person (animal), but was produced, obtained, bought, stolen, won, or caught by the actual possessor. Thus, it is not the natural or primordial property of the present owner, but is rather an alienable possession.

For example, body parts are normally expressed by the regular possessive construction (4.2.3.1): bi dili: (< dili-i) 'my head' (1SG), nakta imo:-ni 'boar fat'. However, the ownership of somebody else's body part is expressed by the suffix - \(\eta i\) - on the possessed noun.
(179) bi nakta dili-ni: (<dili-ŋi-i) 'my boar head'
<head-AL-1SG>
si kuliga tekpu-ŋi: (<tekpu-ni-i) 'your snake skin'
<skin-AL-1SG>
bi imo:-ni: (< imo:- \(\eta i-i\) ) 'my (boar) fat'
<fat-AL-1SG>
The meaning of the suffix - \(\eta i\) - is here to encode the difference between these two cases. This suffix is often used with words referring to parts of an
(animal's) body or words such as ule: 'meat', imo: 'fat'. Fish and animals when considered as a fisherman's or a hunter's catch are usually regarded as alienable possessions, cf.: bi nakta-ni: imo-ni 'the fat of my boar'. This is especially common in situations connected with finding out or changing owners.


\subsection*{4.2.4.2. Alienable Possessive}

For several words the expression of alienable possession is practically obligatory. In this they differ from, for example, body parts, for which the marking by the suffix - \(\eta i\) - is conditioned by the situation (4.2.4.1). Most words denoting various types of (alienable) property do not require the suffix of the Alienable Possessive and take the regular Possessive morpheme, for example: nuani zugdi-ni 'his house', nuani tege-ni 'his gown'. These are words denoting the house itself and various objects of housekeeping: clothes, weapons, boats, domestic animals other than a cow, and so on. However, some words that denote alienable possession as such require the suffix - \(\eta i\)-; these are as follows:
(i) na: 'land' when it is regarded as somebody's property where the relationship between the elements na: 'land' and agba 'state' is not treated as a relationship of alienable possession, hence the regular possessive construction is used; cf. (181a) and (181b);
(ii) mo: 'tree', whereupon its meaning changes to 'firewood which belongs to somebody' or refers to a tree which, for example, grows by somebody's house (182c);
(iii) zä: 'money';
(iv) \(j a\) : 'cow'.
a. Bija:-ŋi: xonto ni: na:-ni-le-ni me cow-AL.1SG another man land-AL-LOC-3SG yene:-ni.
go.PAST-3SG
'My cow went onto somebody else's land.'
\begin{tabular}{lll} 
b. & Agba na:-di-ni & bagdi-mi. \\
state land-DAT-3SG & live-1SG \\
'I live on state land.' &
\end{tabular}
a. Mo:-ŋi-ne-mi gada:-ni.
tree-AL-DEST-REF buy.PAST-3SG
'He bought firewood for himself.'
b. Su mo:- \(\boldsymbol{-} i-u\) bie?
you tree-AL-2PL be.PRES.HAB
'Do you have some firewood?'
c. Bi mo:-ni-ne-i ketu uligdig'a.
me tree-AL-PL-1SG very beautiful
'My trees are very beautiful.'
Bi zä:-yi: xul'a-wa-ni
me money-AL.REF extra-ACC-3SG
neŋun-du-i
bu-o:-mi.
younger.sibling-DAT-REF give-PAST-1SG
'I gave my extra money to my brother'.
Nua-nibi ja:-ni-we-i gada:-ni. he-3SG me cow-AL-ACC-1SG buy.PAST-3SG 'He bought my cow.'

\subsection*{4.2.4.3. Associative relationship}

The suffix - \(\eta i\) i- does not necessarily express property, but can encode the connection of the corresponding element to another one (the 'possessor') which is realized through his/her activity.

\subsection*{4.2.4.3.1. Inanimate nouns}

The suffix - \(\eta i\) - encodes an associative relation through a different kind of action, cf.: I:bene la:-ni 'a Japanese candle' and I:bene la:-ni-ni 'the candle given by a Japanese'. In the former case, we deal with relational possessive constructions such as those addressed in 4.2.3.2, and the 'possessor' I:bene 'Japanese' here simply replaces a relational adjective. In the latter case the suffix - \(\boldsymbol{\eta} \boldsymbol{i}\) - indicates
the situational relationship between the head noun la: 'candle' and the element I:bene 'Japanese', both of which could participate in a hypothetical implied predication 'a Japanese gave a candle'.

This type of possessive construction is known in other languages (cf. the English John's book, which can not only mean possession, but also "the book which John reads, edits, sells, etc."), but is very regular in Udihe. In this case a situational non-possessive relation is presupposed between the 'possessor' and the head noun. The relationship can be established between virtually any two entities associated in the discourse. The exact form of this relation is not expressed overtly, and therefore the construction itself is semantically undetermined. For example, bi abuga-i käna-ni-ni 'my father's deer' <me father-1SG deer-AL-3SG> does not necessarily mean ownership, but may refer to 'the deer my father followed, about which he was talking, etc.'. As noticed by Taylor (Taylor 1989), the meaning of relation in this sort of construction can only be characterized in the context of a person's encyclopedic knowledge of the relevant words (that is, concerning typical actions involving the entity in question). It may also be added that, at least in Udihe, the meaning of the construction is normally deduced from the discourse; the context and the con-situation play an important role here, since they usually set the type of relation unambiguously. Referential conflict does not happen because, first, the type of relation is usually introduced in the context or is clear from the con-situation; second, the possessor is highly referential and definite, cf.:
\begin{tabular}{lll} 
a. & G'ai uli-qi-ni & xuili:-ni. \\
crow & water-AL-3SG boil-3SG
\end{tabular}

In this meaning the suffix - \(\eta i\) - often attaches to the words denoting geographical objects (places) such as uli 'river', bäsa 'stream, small river', xoto 'town', golo 'country', and bua 'country' and indicates the place of living, cf.:

Minti bäsa-ŋi-fi
we stream-AL-1PL.IN 'Our river is called Bikin.'
\(\begin{array}{ll}\text { gegbi-si:-ti } & \text { Bikin. } \\ \text { name-V-3PL } & \text { Bikin }\end{array}\)

\subsection*{4.2.4.3.2. Animate nouns}

As distinct from the regular Possessive suffixes, the suffix - \(\eta i\) - can be hosted by nouns that denote living persons related to the possessor through some activity or situation (common work, proximity, etc.).
minti zaŋä-ni-fi 'our chief'
<we chief-AL-1PL.IN>
minti lauzi-ŋi-fi 'our farm-laborer'
<we farm.laborer-AL-1PL.IN>
e:ci-ni-ni 'his servant'
<servant-AL-3SG>
\(n i:-\eta i-n i \quad\) 'his people'
<man-AL-3SG>

With proper names -ni- presupposes that the corresponding person is well known to both the speaker and the listener. See (188) where (188b) is a spontaneous phrase addressed by one of our informants to his wife, referring to our visit to her. In (188c) Sergei may be a relative or friend of the interlocutor, or a person often spoken about.


Kinship terms including the word sita 'child' do not usually take the alienable possession suffix - \(\boldsymbol{\eta}\)-, but the words b'ata 'boy' and aziga 'girl' do. In this case
they mean 'son' and 'daughter' respectively and so the semantic oppositions 'son/boy' and 'daughter/girl' are expressed morphologically.
\begin{tabular}{lllll} 
a. \begin{tabular}{lll} 
Bu-je & min-du & si \\
give-IMP.2SG & me-DAT & aziga- \(\boldsymbol{y}\) :. \\
& 'Give me your daughter.'
\end{tabular} & & \\
girl-AL.REF
\end{tabular}
\(\begin{array}{llll}\text { b. } & \text { Bi ze-i } & \text { b'ata- } \boldsymbol{\eta} i-n i & \text { jexe-ini. } \\ \text { me neighbor-1SG } & \text { boy-AL-3SG } & \text { sing-3SG } \\ & \text { 'My neighbor's son is singing.' } & \end{array}\)
The suffix - \(\boldsymbol{\eta} \boldsymbol{i}\) - can also be attached to the substantivized adjectives: \(c\) 'o \(i c\) 'a-ni-ti' 'the youngest (of them)' <most small-AL-3PL> (K 139).

\subsection*{4.2.4.3.3. Associative relationship and definiteness}

Remarkably, the alienable possession suffix - \(\eta i\)-, which expresses some kind of associative relationship (4.2.4.3.1 and 4.2.4.3.2), can co-occur with the \(3^{\text {rd }}\) person Possessive suffix marking the definiteness of the corresponding object (4.1.3.3).
\(\begin{array}{lll}\text { a. } & \text { Wayba-ni-ni } & \text { alasi:. } \\ \text { tortoise -AL-3SG } & \text { wait.PRP }\end{array}\) 'It (the squirrel) is waiting for the tortoise.'
b. Tukti-e-ni mafa mo:-ni-we-ni.
climb-PAST-3SG old man tree-AL-ACC-3SG 'The old man climbed up the tree.'

In (190) the \(3^{\text {rd }}\) person affix -ni cannot refer to the (covert) subject because this would require a Reflexive Possessive marker and not a regular \(3^{\text {rd }}\) person marker. This suggests that the \(3^{\text {rd }}\) person marker here reflects contextual definiteness (4.1.3.3.3), while - \(\eta i\) i- expresses an associative relationship between the two participants of the text in the sense of 4.2.4.3.2.

\subsection*{4.2.4.4. Substitutional meaning}

Another meaning of the Alienable Possessive suffix \(-\eta i\) i- is to denote a non-typical function of a thing or a person, which serves instead of another, usually in the subject or direct object function, cf.:
```

a. Bi-le bagdi: getu zugu-\etai-ni
me-CONT live.PRP PL otter-AL-3SG
o-zo-mi.
become-SUBJ-1SG
'I will become an otter for the people.' (K 126)
b. Bi tiu-\etai: bu-je bi
me pillow-AL.1SG give-IMP.2SG me
kapta-si:-le.
parcel-V.1SG-CONT
'Give me something as (instead of) a pillow so that I can roll it up.'

```

\subsection*{4.2.4.5. Predicative use of the Alienable Possessive}

Nouns marked by the suffix of Alienable Possessive are used as the predicates of the copular construction. In this case, unlike previously described in 4.1.4.4, this suffix - \(\eta i\) - attaches not to the possessed noun but to the possessor, cf.: b'ata- \(\eta i\) 'the boy's'. Such constructions are addressed at greater length in section 17.2.2.3.

\subsection*{4.2.4.6. Derivational use}

The alienable possession suffix may precede an adjectival derivational suffix \(-x i\). Such cases are discussed in 6.4.1.1.2.

\subsection*{4.3. Nominal mixed categories}

By "mixed categories" we mean special forms of nouns which demonstrate mixed behavior: their syntactic distribution is that of adjectives, but they show some "noun-like" properties as well. These forms are the Proprietive and Partitive. In their external syntax they behave like prototypical adjectives: they take a prenominal position within a noun phrase, they can be located discontinuously, they undergo modifier raising as do most adjectives (24.2.2.1.1), and may function as secondary predicates. These properties are not typical of nouns. However, in some other respects they behave like inflectional forms. Their underlying nouns preserve referentiality; therefore, they can head their own phrase, are compatible with some types of possessive marking, and are available for cross-reference later in the text. This indicates that the categorial status of the Proprietive and the Partitive cannot be determined unambiguously; they can be characterized as intermediate between inflection and derivation.

\subsection*{4.3.1. Proprietive}

The Proprietive is derived with the suffix -xi. A similar pattern is typical for all cognate languages and is very productive. The resulting forms have a possessive meaning 'with X ', denoting both alienable and inalienable possession. They can be derived from practically any noun.
\begin{tabular}{|c|c|c|c|c|}
\hline (192) & zali-xi & 'with a store-house' & zali & 'store-house' \\
\hline & mä:usa-xi & 'with a gun' & mä:usa & 'gun' \\
\hline & kusige-xi & 'with a knife' & kusige & 'knife' \\
\hline & guzakta-xi & 'with a beard' & guzakta & 'beard' \\
\hline & neŋu-xi & 'with a younger & neтu & 'younger \\
\hline & & sibling' & & sibling' \\
\hline
\end{tabular}

The suffix -xi may be hosted by a noun which bears the Alienable Possessive marker \(-\eta i\). Then it indicates the "associative" relation between the possessor (the head) and the possessed (the incorporated noun) according to the same principles which hold for the regular possessive construction (see 4.2.4), for example:
\begin{tabular}{ll} 
Belie- i- \(i\)-xi & bi-si-ni. \\
fairy-AL-PROP & be-PAST-3SG \\
'He had a fairy.' & (SKX 262 )
\end{tabular}

Like nouns, the Proprietive forms do not participate in a comparative or superlative adjective phrase, and do not take an adjectival Plural marker - \(\eta k u\). Further, they inherit the property of being modified by adjectives and numerals. In (194) an adjective modifies the noun incorporated into the Proprietive form. The modifying cardinal numeral here either takes the Instrumental case (195) or is in the Nominative (196).
a. Si wanimi
you long
bie?
be.PRES.HAB
'Do you have an axe with a long handle?'
\begin{tabular}{llll} 
b. & Sin-du \(\quad\) bie \(\quad\) xulaligi & waptä-xi \\
& you-DAT be.PRES.HAB red & & \\
& konz'o-i? & & \\
& lid-PROP
\end{tabular}
d. Nua-ni xulaligi xei-xi kusige-i
he-3SG red handle-PROP knife-REF
nodo:-ni.
loose.PAST-3SG
'He has lost his knife with the red handle.'
a. zu:-zi muze-xi tue-ze
two-INST beam-PROP winter-N
'a winter house with two beams' (K 25)

\section*{b}
di:n-zi
to:クdo
koso-xi
<four-INST straight angle-PROP>
'rectangle' (literally: 'the one with four right angles') (Schneider 1936: 26)
c. ila-zi igi-xi
three-INST tail-PROP
'with three tails' (SK 355)
a. Nua-ni zube ugda-xi bi:-ni. he-3SG two boat-PROP be-3SG 'He has two boats.'
b. Uta bede digan-a-mi Mejexi kä:-la-ni igi that like say-0-IMP Mejexi side-LOC-3SG tail lumbulilie sul'ai zu: igi-xi tukä:-ni. fluffy fox two tail-PROP run.PAST-3SG 'Having said that, a fluffy-tailed fox with two tails ran next to Mejexi.' (SKX 246)

The base noun may be modified by a reflexive possessive pronoun or a noun.
a. Bäsa
men-e-men-e eze-xi. river REC-0-REC-0 master-PROP
'Each river has its own master.' (SKX 308)
b. Teti-gi:-ni au-wa bui je-xi. dress-REP-3SG cap-ACC animal antlers-PROP 'He put on a cap with the deer antlers.' (SK 128)

When the Proprietive form incorporates a noun of inalienable possession, an additional modifier is strictly obligatory. Cf.:
a. alagdig'a ja:-xi aziga
<beautiful eye-PROP girl> 'the girl with the beautiful eyes'
b. *ja:-xi aziga
<eye-PROP girl>
(199)
a. Bi sagdi \(\eta \ddot{0}:-x i \quad b i-m i\). me big nose-PROP be-1SG 'I have a big nose.'
\(\begin{array}{lll}\text { b. } & \text { *Bi } \eta \ddot{i}--x i & b i-m i . \\ & \text { me nose-PROP } & \text { be-1SG }\end{array}\)

The noun underlying the Proprietive form can be anaphorically referred to in the following text.
\begin{tabular}{llll} 
a. & Uti zu ni: & xuñazi-xi & bi-si-ti. \\
that two man elder.sister-PROP & be-PAST-3PL \\
Uti 'ana-du & bi-si-ni. & \\
that boat-DAT be-PAST-3SG & \\
'These two men had an elder sister. She was in the boat.' \\
(Schneider 1937: 32)
\end{tabular}
b. Mafa-xi
husband-PROP me-FOC be-PAST cradle-ACC
o:-muse.
make-COND
'If I had a husband, he would make a cradle.' (SKX 170)
The examples below demonstrate the adjectival properties of the Proprietive forms. The sentences in (201) demonstrate the modifier raising construction. In this case the postnominal modifier is the locus of the case marking within a noun phrase. The postposed Proprietive forms are not marked by a possessive affix, but this is also typical of some adjectives (see 24.2.2.1.3).
a
\begin{tabular}{lll} 
a. Moxo konz'o wopti-xi-le & bi-s'e. \\
cup box cover-PROP-LOC & be-PERF \\
'The cup was in the box with a cover.' &
\end{tabular}
b. Bi konz'o-i wopti-xi do-lo-ni
me box-1SG cover-PROP inside-LOC-3SG
bi dei: bi:-ni.
me pipe.1SG be-3SG
'In my box with a lid there is my pipe.'
c. Min-dule in'ei zube sita-xi bie.
me-LOC dog two child-PROP be.PRES.HAB
'I have a dog with two puppies.'
d. Nua-ni alasi:-ni sul'ai-we zakpu-zi
he-3SG wait-3SG fox-ACC eight-INST
igi-xi-we.
tail-PROP-ACC
'He is waiting for the fox with eight tails.' (SK 351)
\begin{tabular}{llll} 
e. Omo aziga xulaligi & nukte-xi \\
one & girl red & nair-PROP \\
tukä:-ni. & \\
run.PAST.3SG & \\
'One girl with red hair came running.' (SKX 318)
\end{tabular}

In the following example the Proprietive form is clause-external and exhibits case agreement with the discontinuous "head", as is typical of regular adjectives (24.2.2.2.4).
(202) \begin{tabular}{l} 
Nua-ni alasi-ni \\
he-3SG wait-3SG
\end{tabular} \begin{tabular}{l} 
sul'ai-wa \\
fox-ACC \\
igi-xi-we. \\
tail-PROP-ACC \\
eight
\end{tabular}
'He is waiting for the fox with eight tails.' (SK 351)

The Proprietive forms in the copredicative function are illustrated below.
\begin{tabular}{lll} 
a. Bi ma:ma-i & tege-we & wo-ini \\
me grandmother-1SG & gown-ACC & make-3SG
\end{tabular} oño-xi-zi. ornament-PROP-INST
'My grandmother makes dresses (decorated) with ornaments.'
b. Nua-ni tutulu xuli:-ni jagdugu-xi-zi.
he-3SG always walk-3SG glasses-PROP-INST
'He always walks wearing glasses.'

\subsection*{4.3.2. Partitive}

The Partitive affix is \(-l A\) for both class I and class II nouns. The Partitive is basically restricted to only two functions. First, it is present in negative possessive constructions with the copula anči. Such constructions have a predicative (23.2.1.5.4) or attributive function (23.2.2.3) and can also function as a secondary predicate. In this function the Partitive is similar to the Proprietive. It is also compatible with the Alienable Possessive affix - \(\boldsymbol{\eta} \boldsymbol{i}-\), cf. (204), but not with the regular possessive affixes.
\(\begin{array}{llll}\text { (204) } & \text { Zä:-ni-le } & \text { anči } & b i:-n i . \\ & \text { money-AL-PART } & \text { no } & \text { be-3SG }\end{array}\)
Since nouns in possessive forms lack the Partitive, they co-occur with the copula in the Nominative form.
\begin{tabular}{lll} 
Omo ni: eme:-ni, & ikte-ni-de anči. \\
one man come.PAST-3SG & tooth-3SG-FOC no \\
'One man came, he had no teeth.'
\end{tabular}

Like adjectives, the negative Partitive forms may be postnominal (206) or discontinuous with their head (207). In both cases the negative copula takes a case inflection that indicates the role of the head noun in the clause.
Bi da:mpi mulex
me old
zikte bie.
berry be.PRES.HAB
'There are a lot of berries in my old bucket without a handle.'
\begin{tabular}{lll} 
a. & Bi in'ei-we & ise:-mi \\
me dog-ACC & see.PAST-1SG & igi-le \\
anci-we. & & \\
no-ACC & \\
'I saw a dog without a tail.' &
\end{tabular}
b. Bi kusige-i bu-o:-
me knife-1SG give-PAST-1SG man nukte-le anči-du.
hair-PART no-DAT
'I gave my knife to a bald person (a person without hair).'
The examples below demonstrate the negative Partitive forms in the function of a secondary predicate. The negative copula either takes the Instrumental form (208) or remains morphologically unmarked (209), cf. 19.6.2.

Bui-we-ni ku'ai-la anči-zi
animal-ACC-3SG ear-PART no-INST
b'a-kta-wan-ta-i-ze.
get-DEC-CAUS-PERM-2SG-HORT
'Make the animals not hear, (as if) they are deaf (literally: without ears).'

b. Sita-ziga tege-ne-ti oño-lo anči
child-PL gown-PL-3PL ornament-PART no
\(o:-t i\).
make-3PL
'They make children's gowns without ornaments.' (SK 117)
c. Ni: xaña-la anči bude-hi jaza. man soul-PART no die-PRP of.course 'Of course the man dies (when he is) without a soul.'
(Schneider 1937: 44)
The following example illustrates that the noun underlying the Partitive form may be modified by an adjective.
(210)
\(E i \quad i c ' a\) this small
ge-tini-ni
surface-LAT-3SG
'He does not go to the forest without this small axe.'
Second, the Partitive denotes the second argument of the adjective paki 'skillful'; on this see 6.3.2.

\section*{Chapter 5 \\ Nominal derivation}

Historically, Udihe was rich in nominal derivational patterns, but few of them are productive in the modern language. All derivational suffixes attach to the bare stem. Some of them have parallels among verbal (Chapter 8) or adjectival (6.4.1) inflectional affixes. Normally a noun has only one derivational affix. However, the Diminutive -zig'a is compatible with virtually all concrete nouns, including those that are morphologically derived by means of another suffix.

Compounding as a means of nominal word formation is absent. Sunik (1997: 247) cites examples of the lexicalization of the combination "adjective+noun": c'aligi sul'ai 'polar fox' <white fox>, cf. also kesi gele-yku 'place for sacrifices' <luck ask-N> (K 254), cf. also kuti mafa 'tiger' <tiger old.man>. However, the degree of their lexicalization is hard to estimate.

\subsection*{5.1. Derivational suffixes}

The following derivational suffixes are productive in modern Udihe.
\begin{tabular}{lll} 
(211) & suffix & semantics \\
-ziga & Diminutive & base words \\
\(-\eta a t i\) & Destinative & nouns \\
\(-\eta k A\) & origin & nouns \\
\(-\eta k u,-\eta k A\) & polysemantic & nouns \\
\(-\eta A:\) & 'former' & verbs and nouns \\
\(-(\eta)^{\prime} A i\) & mass nouns & animate nouns \\
& & nouns
\end{tabular}

Non-productive suffixes are presented below under 5.1.2.

\subsection*{5.1.1. Productive suffixes}

\subsection*{5.1.1.1. Diminutive suffix -zig'a}

The disharmonic Diminutive suffix -zig'a is the most productive of all nominal derivational suffixes and attaches to practically any noun with concrete semantics. The derived nouns have either a purely diminutive meaning (small quantity or size), or refer to toys or objects designated for children. In the word
the Diminutive suffix takes the rightmost position after the other derivational suffixes and before the inflectional markers, cf.:
(212) tukca-zi'ga 'a little hare, a toy hare'
b'ata-zig'a 'a little boy'
moxo-zig'a 'a little cup'
zolo-zig'a 'a small stone, pebble(s)'
With the uncountable mass nouns the Diminutive suffix denotes singularity, cf.: \(\tilde{n u k t e}\)-zig'a 'one hair' (nukte 'hair') samikta-zig'a 'one eyelash (samikta 'eye lashes').
It should be noticed that in the modern language the suffix -zig'a is often pronounced without laryngealization, that is, as -ziga. In this case it is homophonous with the Plural affix -ziga (4.1.2.1). They have a different origin, however: the Plural affix goes back to Chinese (1.5.1.2.2), while the Diminutive affix has Tungus parallels (Boldyrev 1987: 165).

For the words kasanziga 'puppy' and aziga 'girl' the underived base noun is unknown (cf., however, a:-nta 'woman' from Tungus-Manchu *asa), but the component -ziga can be assumed to go back to the Diminutive suffix. When these words are pluralized, the component -ziga can occur twice within one word: a-ziga-ziga 'girls'.

\subsection*{5.1.1.2. Destinative suffix -yati}

The general meaning of this productive suffix can be described as 'designated for \(\mathbf{X}\) ', where \(\mathbf{X}\) is an object signified by the base noun. Most commonly it derives nouns denoting materials; that is, raw material prepared for producing something. In this case it corresponds to the suffix -ing- in English words such as 'suiting, toweling, shirting' (213a). In two cases the derived noun denotes a person (213b).
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{5}{*}{a.} & upta-ทati &  & unta & 'boots \\
\hline & di-nati & 'building materials for a hous & zugdi & ouse \\
\hline & ugda-yati & 'a log for making a boat' & ugda & 'boat' \\
\hline & kusige-nati & 'materials for making a knife' & kusige & knife' \\
\hline & zali-nati & 'building materials for a barn' & zali & m \\
\hline & afa-pati & 'fiancé, bridegroom' & mafa & husband' \\
\hline & & & ma & \\
\hline
\end{tabular}

The nouns derived with the destinative suffix are close in their semantics to the Destinative Participles (7.6.1.3). However, as distinct from the latter ones they exhibit the syntactic and morphological properties of nouns, for example, they take personal affixes as demonstrated below.
Ei sexi bi tege-yati:.
this cloth me \begin{tabular}{l} 
gown-N.1SG
\end{tabular}
'This is my cloth for (sewing) a gown'.

\subsection*{5.1.1.3. The suffix of origin - \(\eta k A\)}

The suffix \(-\eta k A\) derives nouns with the meaning 'inhabitant of X , a person who originated in X , where X is a place name. Such nouns are old kin designations and nowadays often serve as surnames.
namu-ŋke
zugdi-ŋke
dä:-ŋke
ezie-ŋke
solo-yko
xu:-ŋke
biki-ŋke
sua-ŋka
xandau-ŋke
'inhabitant of the seashore' (cf. namu 'sea')
'household' (cf. zugdi 'house')
'inhabitant of a place located upstream'
'inhabitant of a place located downstream'
'inhabitant of a place located upstream'
'inhabitant of the Khor riverbank'
'inhabitant of the Bikin riverbank'
'inhabitant of the Suai riverbank'
'inhabitant of the Khandau riverbank'

This suffix is very productive and attaches to recent borrowings from Russian, cf jara- \(\eta k a\) 'inhabitant of the (comparatively new) Krasnyi Yar settlement' where it is hosted by the Russian word jar 'steep riverbank'. It may be etymologically related to the plolysemantic suffix \(-\eta k u,-\eta k A(5.1 .1 .4)\).

\subsection*{5.1.1.4. Polysemantic suffix \(-\eta k u,-\eta k A\)}

This is a very common Proto-Tungus suffix with a wide range of meanings.
(i) First and most regularly it derives deverbal nouns with the meaning of instruments, means, or tools.
kai-ŋku
akpu-ŋku
la:-ŋku
te:-ŋku
deu-ŋku
zawa-ŋku
kiga-ŋku
l'o-ŋku
oño-ŋku
punde-ŋku
weipti-ŋke
\begin{tabular}{lll} 
'brake for leather' & kai- & 'brake' \\
akpu- & 'sweep' \\
'broom' & akp- & 'gill' \\
la- & 'grind' \\
'bench' & te:- & 'sit' \\
'bridge' & deu- & 'cross' \\
'handle' & zawa- & 'take' \\
'razor' & kiga- & 'shave, mow' \\
'peg, rack' & l'o- & 'hang' \\
'pen, pencil' & oño- & 'write' \\
'camera' & punde- & 'blow' \\
'a lace for a plait' & weipti- & 'tie the plait'
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline \begin{tabular}{l}
kugesi-ŋku \\
te-ŋku
\end{tabular} & 'anvil' & & 'forge' 'sit' \\
\hline buni-yku & 'hunter's roar' & buni:- & \[
\begin{aligned}
& \text { 'roar'(of a } \\
& \text { deer) }
\end{aligned}
\] \\
\hline egde-pke & 'a (magic) means' & egde- & 'mean to do something' \\
\hline cenele-ŋku & 'weigh (measuring tool )' & cenele- & 'weigh' \\
\hline \(z i:-\eta k u\) & 'a low bench for cutting food' & \(z i:-\) & 'cut' \\
\hline xaya-ıku & 'a stone used by the shaman for guessing' & xaya-si- & 'guess' \\
\hline
\end{tabular}

If such nouns are derived from a transitive verb, they normally preserve the ability to assign the Accusative case.
in'ei-we xekesi-yku <dog-ACC tie-N>
mäga-wa la-ŋku
<flour-ACC grind-N>
g'obo-wo konko-si-ŋku
<fly-ACC beat-IM-N>
ima:-wa eisi- \(\eta k u\)
<snow-ACC shovel-N>
inme-we akinde-ŋku
<needle-ACC stick-N>
a mma-wa xukte-ŋku
<mouth-ACC wind-N>
uli-we gada-ŋku
<water-ACC carry-N>
'rope for tying down a dog'
'mill (a tool for grinding flour)'
'a tool for killing flies'
'a tool for shoveling the snow'
'needle-case'
'a gossip'
'bucket'
(ii) Second, the derived nouns may entail an abstract or resultative meaning.
\begin{tabular}{|c|c|}
\hline nima-ŋku & '(fairy)tale' \\
\hline nagbu-ŋku & 'riddle' \\
\hline \(c^{\prime} a-\eta k u\) & 'tickle' \\
\hline gegbe-yku & 'berries' \\
\hline bude-yke & 'death' \\
\hline maga-pka & 'murder' \\
\hline etete-ŋku & 'work' \\
\hline jexe-pku & 'song' \\
\hline
\end{tabular}
\begin{tabular}{ll} 
nima-si- & 'tell' \\
nagda- & 'guess' \\
c'a-si- & 'tickle' \\
gegbe- & 'gather' \\
bude- & 'die' \\
magi- & 'murder' \\
etete- & 'work' \\
jexe- & 'sing'
\end{tabular}
(iii) Third, nouns derived according to the pattern in question occasionally have a locative meaning and refer to places of action.
wakca-ŋku
au- \begin{tabular}{l} 
ku \\
deu-ŋku \\
dawasi-ŋku
\end{tabular}
'place for hunting',
'place for washing'
'bridge'
'place for fishing
salmon'

\author{
wakca- 'hunt' \\ au- 'wash' \\ deu- 'cross the river' \\ dawasi- 'fish salmon'
}

This locational meaning is very productive and can be derived from virtually all verbs, as illustrated in below.
\begin{tabular}{llllll} 
(220) & Ei-tene & \(b i\) & oño & wo- \(\eta k u-i\), & \\
this-CONT & me & ornament & make-N-1SG & \\
ei-tene & \(b i\) & \(\eta u a-\eta k u-i\) & \(b \ddot{a}-i\), & ei-tene \\
this-CONT me & sleep-N-1SG & bed-1SG & this-CONT \\
\(b i \quad\) deumpi- \(\eta k u-i\) & \(b \ddot{a}--i\). & & \\
me rest-N-1SG & bed-1SG & & \\
& 'This is my place for embroidering, this is my bed for sleeping, this is \\
& my bed for having a rest.' (K 182)
\end{tabular}

Some nouns derived from intransitive verbs assign the Nominative case: keku-ni do:- \(\eta k u\) 'cuckoo's perch' <cuckoo-3SG sit-N>.
(iv) Finally, for a closed class of words the suffix - \(\eta k u\) - denotes persons. Some of these nouns are derived from other nouns.
\begin{tabular}{|c|c|c|c|c|}
\hline (221) & degde-nku & 'a jolly person' & degde- & 'raise, lift' \\
\hline & gusi-ŋku & '(practical) joker' & gusi- & 'play' \\
\hline & boxoli-ŋku & 'humpbacked' & boxoli & 'humpback' \\
\hline & kedeli-ŋku & 'one-eyed' & cf. kede-ligi & 'stripy' \\
\hline & zo:-ŋku & 'poor person' & zo:- & 'need' \\
\hline & zeu-ŋku & 'bread-winner'(S & & 'food' \\
\hline & kaŋma-ŋku & 'evil sorcerer' & kayma- & 'practice evil \\
\hline
\end{tabular}

\subsection*{5.1.1.5. The suffix - \(\eta A\) : 'former'}

This suffix derives nouns from other nouns denoting living persons or adjectives characterizing them. Typically its semantics presupposes that the person named by the base noun was alive in the past but at the moment of speech no longer exists. Therefore the derived noun receives the meaning 'the late \(\mathbf{X}\); the deceased \(\mathrm{X} ; \mathbf{X}\) who is dead now', for example: sagda-ŋe: 'the one who was old', paga-ŋa: 'the one who was stupid'. In the few sentence examples we have at our disposal the derived noun always takes the subject role, and it is not clear if it can correspond to the other syntactic positions.
a. Ei zugdi-we Iwana-na: wo:-ni. this house-ACC Ivan-N make.PAST-3SG 'This house was made by the deceased Ivan.'
b. Anana ami-na:-i e bede kepte-i bi-s'e. long.ago father-N-2SG this like lie-PRP be-PERF 'A long time ago your deceased father was lying like this.' (K 107)
c. Wala-ŋa: upta-ni, imo-si: bebe. lucky.hunter-N boot-3SG fat-V.PRP EV 'It turns out that the boots belonged to the (deceased) lucky hunter, they have fat.' (K 199)

Remarkably, nouns in \(-\eta A\) : cannot refer to someone if the speaker does not know whether he is dead or not. For example, (223) cannot be used if you find a dead bear in the forest and do not know who killed it. But it can be used when speaking about a bear skin which has been lying on the floor of the house for many years if it is known that the hunter died a long time ago.
\[
\begin{array}{llll}
\text { Ei songo-wo } & \text { aja } & \text { wakca- } i & \text { ni:-pe: wa:-ti. }  \tag{224}\\
\text { this bear-ACC } & \text { good } & \text { hunt-PRP } & \text { man-N kill.PAST-3PL }
\end{array}
\]
'This bear was killed by men who were good hunters.'
This suffix is probably present in the word muda- \(\eta a\) : 'former wife' from muda 'end'. According to Simonov's and Kjalundzjuga's materials, it may also have a pejorative meaning: a:nta-na: 'damned woman (literally: former woman)' (SK 114), wali-ga: 'little raven' (SK 212).

The suffix \(-\eta A\) : exhibits a formal similarity with the marker of the Imperfective Converb (7.5.2.2).

\subsection*{5.1.1.6. The mass nouns suffix -( \(\eta\) ) ' \(A i \sim m^{\prime} A i /{ }^{\prime}-i\)}

One of the forms of this suffix is ' \(-i\), that is, it triggers the pharyngealization of the stem-final vowel followed by /i/ in this case. The derived nouns refer to a kind of thicket.
\begin{tabular}{lll} 
(225) labug'a-i & 'ground covered with moss' & labuga 'moss' \\
cafakt' \(a-i\) & 'birch thicket' & cafa-kta 'birch \\
talugd'a-i & 'birch thicket' & talugda 'birch tree' \\
sakt'a-i & 'willow thicket' & sakta \\
amigd' \(a-i\) & 'poplar thicket' & amigda 'poplar'
\end{tabular}

The suffix ' \(-i\) often co-occurs with the mass noun suffix \(-k t A\) (6.3.1.7), so that the resulting word ends in \(-k t^{\prime} A i\).
(226)
mo-kt'o-i
wo-kt'o-i
kömpo-kt'o-i
'brushwood'
'grass thicket'
'thorny thicket'
mo: 'tree'
wo-kto 'grass'
kömpo 'thorn'

Examples of the suffix \(-\eta\) ' \(A i\) with the same meaning are:
\begin{tabular}{|c|c|c|c|c|}
\hline (227) & küka-ŋ'ai, kunka-m'ai & 'cedar thicket' & kuyka & 'cedar' \\
\hline & xulugda-y'ai & 'aspen grove' & xulugda & 'aspen tree' \\
\hline & dikte-ŋ'ei & 'blueberry thicket' & dikte & 'blueberry' \\
\hline & köppo-ŋ'oi & 'dog-rose thicket' & körpo & 'dog-rose' \\
\hline & sakta-m'ai & 'willow thicket' & sakta & 'willow' \\
\hline & teukte-ท'ei & 'cowberry thicket' & teukte & 'cowberry' \\
\hline & isompo-ท'oi & 'bird cherry thicket' & isompo & 'bird cherry tree' \\
\hline & eigde- \({ }^{\prime}\) 'ei & 'lime tree grove’ & eigde & 'lime tree' \\
\hline & \(a i-\eta{ }^{\prime} a-i\), & 'fir tree thicket' & ai-kta & 'fir-tree' \\
\hline & \(a i-k t a-\eta{ }^{\prime} a i\) & & & \\
\hline & kusikta-ŋ'ai & 'Manchu nut thicket' & kusikta & 'Manchu nut \\
\hline
\end{tabular}

\subsection*{5.1.2. Non-productive suffixes}

Certain nouns derived with non-productive suffixes do not have a morphologically unmarked counterpart in modern Udihe, but the base stem is recoverable from related languages.

\subsection*{5.1.2.1. Diminutive suffix \(-s^{\prime} A /-s A\)}

This suffix has two phonological variants, one of which exhibits a non-laryngealized vowel -sA. These variants go back to two different affixes ( \(s A<{ }^{*} \dot{c} A: n, s^{\prime} A<{ }^{*} \check{c} A: k A: n\) ), but the semantics seems to be basically the same. The suffix has a vague diminutive (or affectionate) meaning, but is not productive and occurs only in the designations of some animals (often females) and persons, including relations. The base name is not always obvious: in (228a) we cite the derived nouns for which it is present in the modern language, in (228b) those for which derivational relations can only be established historically. In the latter case we cite reconstructions of Common Tungus protoforms for comparison.
a. kuliga-s'a 'small snake' kuliga 'snake' zoŋku-s'o 'poor man'
zoŋku 'poor'
\begin{tabular}{llll} 
mama-sa & 'wife' & mama & 'old woman' \\
puta-sa & 'small bag' & puta & 'bag' \\
joxo-s'o & 'small pot' (K 242) & \begin{tabular}{l} 
joxo
\end{tabular} & 'pot' \\
mafa-sa & 'old man' & mafa & 'old man, husband' \\
mungi-s'a & 'small shaman's beater' mungi & 'shaman's beater' \\
ina-s'a & 'nephew, niece' & ina-nta & 'nephew' (SK 374) \\
& & \\
gua-s'a & 'female of small animals' & *uke-če:n \\
nexu-s'e & 'younger sibling' & *neku:n \\
eñe-se & 'female of fish or birds' & eni-ne 'mother' \\
logo-so & 'male deer' & *löko-čo:n \\
janda-sa & 'badger' & *janda-čo:n \\
kä:-sa & 'sea eagle' & *kiya-ča:n \\
l'a-sa & 'bullhead (fish)' & *laka-ča:n \\
giu-se & 'roe' & *giw-ča:n \\
nuge-se & 'one-year-old boar' & cf. Manchu nuxen
\end{tabular}

\subsection*{5.1.2.2. The mass nouns suffix \(-k t A\)}

This suffix is common to all Tungus languages and used to be very productive, although in modern Udihe this is no longer the case. Generally speaking, it is used to derive uncountable mass nouns with different meanings, in particular those of the following groups.
(i) plants and fruits: mesi-kte~musu-kte 'grapes' (cf. Manchu muču), kusi-kta 'Manchu nut' (cf. Nanai koco), kö-kto 'dog-rose (hips)' (cf. Manchu k'o:k'o:n), teu-kte 'cowberries' (Proto-Tungus-Manchu *tewu), xai-kta 'dry grass put in boots for keeping warm' (cf. xai-gu- 'put grass into boots'), za-kta 'millet' (cf. Manchu ze), leu-kte 'a kind of water plant' (cf. Proto-Tungus-Manchu *lewe 'swamp').
(ii) body parts and related substances: ina-kta 'wool' (*sinja), ofo-kto 'feather' (cf. ofo-di:- 'pluck'), sami-kte 'eyelash' (< *sarmi- 'blink'), gua-kta (or guza-kta) 'beard'(*gurga-), sulu-kta 'gut' (*sila-), wai-kta 'nail; star' (< *xosi- 'scratch'), ni:-kta 'backbone' (*nierde-).
(iii) dry substances: oño-kto 'sand' (*xoŋñi-); wo-kto 'grass, hay; medicine, (gun)powder' (Proto-Tungus *oro-kto).
(iv) plentitude of small animals or insects: xumu-kte '(autumn) mosquito' (*punmi-), gawa-kta 'butterfly' (cf. Samarga gawa-da), sili-kte 'worm' (*sili-).
(v) abstract nouns: m'ai-kta 'energy, stamina' (K 307) ( \(m\) 'ai 'strong').

The same suffix is historically distinguished in the following words: wa-kta '(tree) bark' (*ura-), lifa-kta 'mud' (*lipa-), sie-kte 'thread' (*sire-).

\subsection*{5.1.2.3. Collective suffix -ntA}

The non-productive suffix -ntA occurs in a few words denoting either separate persons (229a) or a group of people (229b).
a. a:-nta
belie-nte
sagdi-nta
ni:-nta
ina-nta
b. xa-nta
za-nta
'woman'
'fairy'
'old man'
'man'
'nephew'
'relatives'
'cousins'
cf. \(a-z i g a\)
belie
sagdi
ni:
cf. ina-s'a
\[
\begin{align*}
& \text { 'girl' }  \tag{229}\\
& \text { 'fairy' } \\
& \text { 'big, old' } \\
& \text { 'man, person' } \\
& \text { 'nephew, } \\
& \text { niece' } \\
& \text { 'relative' } \\
& \text { 'cousin' }
\end{align*}
\]

The same suffix may also be present in the following words: xe-nte 'master', bäo-nta 'name of a people in fairytales'.

The suffix -ntA- was mentioned in Schneider (1936: 103) as a possessive Plural affix. However, it denotes the collective Plural in only a few words where it can be followed by other Plural suffixes, the general Plural -ziga or the possessive Plural -nA- (for example, belie-nte-ziga, za-nta-ziga, xa-nta-na-i). This shows that the forms with the affix -ntA- are lexicalized.

\subsection*{5.1.2.4. Locational suffix -(u)zA}

This suffix derives nouns from other nouns, pronouns, or locative adverbial stems. The derived nouns denote the corresponding place.
\begin{tabular}{ll} 
tue-ze & 'winter house' \\
solo-zo & 'upper side (about a stream)' \\
ezie-ze & 'the side down the stream' \\
do:-zo & 'inner side' \\
amä:-za & 'back side' \\
a:ya-za & 'right side' \\
a-uze & 'this side' \\
zulie-ze & 'place ahead' \\
ui-ze & 'place above' \\
zegei-ze & 'place beneath' \\
kä:-za & 'side' \\
ta-uze & 'that side, opposite side' \\
bagä:-za & 'opposite side' \\
die-ze & 'direction away from \\
& the river bank'
\end{tabular}
\begin{tabular}{|c|c|}
\hline tue & 'winter' \\
\hline solo- & 'upstream' \\
\hline ie- & 'downstream' \\
\hline :- & 'inside' \\
\hline amä:- & 'back' \\
\hline cf. aja & 'good, nice' \\
\hline cf.a- & 'this' \\
\hline zulie- & 'before' \\
\hline ui- & 'above' \\
\hline xegie- & 'under' \\
\hline kä: & 'edge' \\
\hline cf. \(t a\) : & 'that' \\
\hline bagä- & 'opposite \\
\hline & side' \\
\hline die- & 'place away \\
\hline
\end{tabular}
\[
\begin{array}{lll}
b a:-z a & \text { 'outer side' } & b a: \quad \begin{array}{l}
\text { 'nature, } \\
\text { space, sky' }
\end{array}
\end{array}
\]

Spatial nouns in -(u)zA, except for tue-ze 'winter house', are a base for the further derivation of spatial adverbs (10.1.1). In fact, they themselves exhibit a mixed behavior. On the one hand, they take certain adverbial case markers: the Accusative in '-fA instead of -wa, and the Ablative in - \(\eta A z i\) (10.1.1.1). However, they do not take the adverbial Ablative in -nigi, cf.:
di:-nigi 'far from the river (ABL)' (Adverb)
die-ze-tigi 'from the space away from the river (ABL)' (Noun)
They are also ambivalent with respect to their external syntax. They partly behave like nouns: they may be modified by demonstratives (232) and can function as attributes within the noun phrase (233).

> ta: die:-ze-tigi 'away from that bank'
a. a:ŋa-za ŋala-zi
<right-N hand-INST>
'with the right hand'
b. diene-ze e:-le-ni
<left-N side-LOC-3SG>
'to the left (side)'
c. Ta-uze xokto yene:-ni.
that-N way go.PAST-3SG
'He went that way.'
d. zueze ta-uze e:-le-ni
<table that-N side-LOC-3
'on the opposite side of the table'
e. ei mo: a:クa-za e:-tigi-ni
<this tree right-N side-LAT-3SG>
'to the right from this tree'
f. Biki uli-ni bagä:-za e:-digi-ni
<Bikin river-3SG opposite-N side-ABL-3SG>
'from the opposite side of the Bikin'
Yet, they are mostly found in adverbial functions in various local case forms, cf.:
\begin{tabular}{llll} 
a. & Bi \(\quad\) a-uz'e-fe & yene-ze-mi, si & ta-uz'e-fe \\
me this-N-ACC & go-SUBJ-1SG you & \\
jene-je. & \\
go-IMP. & \\
'I will go this way, you go there (that way).'
\end{tabular}
b. Zulie-ze-le igi, amä:-za-la igi. front-N-LOC tail behind-N-LOC tail 'Ahead is a tail, behind is a tail.'
c. Ui-ze-le
above-N-LOC
xegie-ze-le-de below-N-LOC become.PRP
d. Omo begdi ba:-za-la, omo begdi one foot place-N-LOC one foot do-zo-lo.
inside-N-LOC
'One foot outside, one foot inside.' (K 145)
e. diene-ze-li 'along the place on the left'
<left-N-PROL>
diene-ze-zi
<left-N-INST>
a:na-za-digi <right-N-ABL>

\subsection*{5.1.2.5. Resultative suffix -ptA-ktA, -pti(le)/-kti(le)}

The suffix derives resultative nouns from base verbs and nouns. It is likely to be connected with the Decausative verbal suffix -ptA-/-ktA- (see 8.2.1.3), cf. also the element -ptile found in the passive Past Participles of the negative verb (7.6.1.2.2).
\begin{tabular}{lllll} 
a. & kua-ktile & 'shavings' & kua- & 'shave' \\
& gi:-ptile & 'ends' & gi:- & 'cut out' \\
& tai-ptile & 'chips' & tai- & 'collect' \\
& cam-(p)tile & 'splinter' & camna- 'break' \\
b. & to:-pti & 'fireplace' & to: & 'fire' \\
& sana-pti & 'patch' & sana & 'hole' \\
& imo:-pti & 'epiploon' & imo: 'fat' \\
& euni-pti & 'cross-piece' & eu-nigi 'across' \\
& sili-pti & 'breast strap & sili & 'collar' \\
& ula:-pti & in a dog harness' & & \\
& 'soaked fish' & ula:- & 'soak'
\end{tabular}
\begin{tabular}{lllll} 
& su:-pti & 'leather rope'(SK 835) & sui- & 'tie' \\
c. & xule-pte & 'ash; remains' & xule & 'remainder' \\
d. & likpi-kti & 'cork' & likpi- & 'close' \\
& teusi-kti & 'container' & teusi- & 'keep'
\end{tabular}

Since consonantal clusters \(p t\) and \(k t\) tend to vary freely (2.2.4.1), the Resultative nominal suffix can have two forms: uña-pti and uña-kti 'ring' (cf. uña 'finger'), egbe-kti ~ egbe-pti 'roof' (cf. egbe- 'to cover, to roof') (K 312).

Several derived words deviate from the regular meaning and imply a certain association between the objects denoted by the base noun and the derived noun: dei-pti 'lead' (cf. dei-gi- 'cover with lead'), ada-pti 'sleeve-case' (cf. ada'join, put together'), \(t\) 'a-pti 'clay' (cf. \(t\) 'a 'fallen tree'). Certain deverbal nouns derived from transitives preserve the valence pattern of the base verb, cf.: banza moloko-wo teusi-kti 'bottle for keeping milk' <bottle milk-ACC keep-N>.

\subsection*{5.1.2.6. Qualificative suffix -lA}

This suffix derives denominal and deverbal nouns denoting people who can carry out a particular action perfectly. It can be translated as 'good at X, good at using X, can be featured by \(\mathrm{X}^{\prime}\), where X corresponds to the base stem. Cf. the Evenki -la:n- with the same meaning: oño-lo:n 'a good painter' from oño'paint, draw, write'. Examples:
\begin{tabular}{llll} 
aki-la & 'a (lucky) harpooner' & aki & 'harpoon' \\
wa-la & 'a (good, lucky) hunter' & wa- & 'hunt, kill' \\
jexe-le & 'a (good) singer'(Schneider 1936: 42) & jexe & 'song'
\end{tabular}

The same or a homonymous suffix could historically be present in the following words: xata-la 'girl', ñau-la 'boy, girl' (*ñaw-), ma:-la 'dried whole salmon' (cf. ma: 'whole').

The qualificative suffix - \(L A\) is also typical of adjectives (6.4.1.1.4), and it is not excluded that the nouns listed here are in fact substantivized adjectives. However, they presently behave as nouns, for example, they can be modified by an adjective.
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(237) Keige ketu aja wa-la.
cat very good kill-N
'Cats are very good hunters.'

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\subsection*{5.1.2.7. The suffix -xi}

This suffix is obviously connected with the adjectival possessive suffix -xi (6.4.1.2.2). It is mainly found in designations of animals, but the derivational relationships are not transparent in the modern language. Examples: olo-xi 'squirrel' (*xulu-), kuge-xi 'a sort of bird' (cf. Ulch kukaj), e-xi 'frog' (*xere-), tibze-xi 'lynx'(*tübze-). Note also the following words: sewe-xi 'idol' (cf. sewe- 'ghost'), mule-xi 'bucket' (*mu:-le- 'fetch water'), zele-xi 'hermine' (cf. Nanai zeli). The suffix -xi can also be suspected in sumu-xi 'hazel-hen', cende-xi 'crawfish', sene-xi 'hedgehog', nasa-xi 'heron'.

\subsection*{5.1.2.8. The suffix -(mu~bu)gA, -(mu~bu~u~tu)gu}

Examples for the suffix -(mu~bu)gA and -(mu~bu~u)gu with unclear semantics are presented in (238a) and (238b), respectively.
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{3}{*}{a. talu-ga}} & 'birch bark' & talu & 'birch' \\
\hline & & 'blind man' & bali & 'blind' \\
\hline & & \begin{tabular}{l}
'piece' \\
(Schneider 1936: 60)
\end{tabular} & p'ai & 'piece' \\
\hline & kumu-ge & 'louse' & kumu-di- & 'seek lice' \\
\hline & kuli-ga & 'snake' & *kuli- & \\
\hline & xalu-ga & 'hammer' & *palu- & \\
\hline & wai-ga & 'earring' & *xojpo- & \\
\hline & labu-ga & \begin{tabular}{l}
'moss' \\
(Schneider 1936: 47)
\end{tabular} & *law- & \\
\hline & begdi-ge & 'leg of a table, & begdi & 'leg' \\
\hline & takti-ga & 'yew-tree' & cf. Manchu & \\
\hline & oŋö-buga & 'snuff' (K 276) & onö- & 'snuff' \\
\hline & cige-muge & 'urinary bladder'
(K 310) & cige & 'urine' \\
\hline \multirow[t]{9}{*}{b.} & kayd-ugu & 'half' & *kondo & \\
\hline & safu-gu & 'chopsticks' & safu-li-ŋku & 'a box for chopsticks' \\
\hline & un-ugu & 'disease' & uni- & 'be sick' \\
\hline & zom-ugu & 'thief' & zomi- & 'steal' \\
\hline & kiso-bugu & 'quiver' (K 249) & kiso-fu & 'quiver' \\
\hline & saŋña-mugu & 'flue for smoke' & saŋña & 'smoke' \\
\hline & mo:-mugu & 'stack of & mo: & 'tree, wood' \\
\hline & & firewood' & & \\
\hline & ze:n-tugu & 'left-hander' & ze:-ทeze & 'left' \\
\hline
\end{tabular}

\subsection*{5.1.2.9. The suffix -mA}

This suffix occurs on only a few nouns. It is homophonous and may be connected etymologically with the polysemantic adjective suffix -mA (6.4.1.2.1).
(239) kä-ma
kali-ma
kakči-ma
laukta-ma
'rocky mountain'
(Schneider 1936: 45)
käi
kali
kakči-si-
cf. laukta
'hill'
'sig fish' 'bake'
(Bikin) 'water plants'
5.1.2.10. The suffix -gdugu, -gdigA

Examples:
(240) ipme-gdugu ja-gdugu
dami-gdugu
je-gdige
'box for keeping needles'
'glasses'
'tobacco'
'hero, young man'
\begin{tabular}{ll} 
inme & 'needle' \\
ja: & 'eye' \\
dami- & 'smoke' \\
cf. jeu- & 'grow'
\end{tabular}
5.1.2.11. The suffix (')-u

Examples:
ad'a-u
bagä:-u
bogöso-u
bagd-u
ze-u
gä-u
ami-kta-u
kakt'a-u
jat'a-u
'twins' ada-
'enemy' bagä:
'torturer' bogöso-
'village' bagdi-
'food'
'oar'
'sleepyhead'
'half'
'birth shelter'
cf. ze-mui
*ge:
cf. amai
kakt'a
cf. jata-si-
'join, put together'
'opposite'
'torture'
'live'
'hungry'
'another'
'sleepy'
'half'
'give birth'
5.1.2.12. The suffix of measures -lA

The productive suffix -lA derives abstract nouns of measures and parameters, usually from parametric adjectives or adverbs. The resulting noun always takes personal affixes (4.2.3.1.5).
(242)
\begin{tabular}{llll} 
enme-le-ni & 'width' & enme & 'wide' \\
egdi-le-ni & 'multitude' & egdi & 'many, much' \\
nemne-le-ni & 'breadth' & nemne-c'e & 'narrow' \\
dämi-la-ni & 'thickness' & dämi & 'thick' \\
sagdi-la-ni & 'size' & sagdi & 'big' \\
wani(mi)-la-ni & 'length' & wani-mi & 'long' \\
sunta-la-ni & 'depth' & sunta & 'deep'
\end{tabular}

The word cene-le-ni 'weight' is derived from the noun cene 'balance'.
For some nouns derived with the suffix -lA the meaning deviates from the usual pattern: zugda-la 'a house with a double sloped roof' (cf. zugdi 'house'), \(\tilde{n u x a-l a ~ ' s p r i n g, ~ s o u r c e ' ~(c f . ~ \tilde{n u x a n-~ ' j u m p ~ o u t ') . ~}}\)

The nouns of measure take the Accusative argument (17.2.2.1.3).

\subsection*{5.1.2.13. The suffix -mule}

The suffix -mule is obviously related to the comitative postposition mule 'with' (10.2.2.2.4). As distinct from the postposition mule, it is phonologically bound to the stem and does not bear an independent stress. However, it is disharmonic with respect to vowel harmony (3.3.2.3). The suffix derives the following closed class of nouns meaning close symmetrical relationship between two or more people:
\begin{tabular}{|c|c|c|c|c|}
\hline (243) & gagda-mule & '(married) couple' & gagda & 'the other' \\
\hline & anda-mule & '(married) couple' & anda & 'friend' \\
\hline & xunazi-mule & 'sisters' & xunazi & 'elder sister' \\
\hline & xa:-mule & 'brothers' & \(x a\) : & 'sibling' \\
\hline & zalä-mule & 'cousins' & \(z a\) & 'relatives' \\
\hline & nimenke-mule & 'neighbors' & nimenke & 'neighbor' \\
\hline & getu-mule & 'comrades' & getu & 'comrade' \\
\hline & sangita-mule & 'relatives by marriage' & sangita & 'relative' \\
\hline & bagäbu-mule & 'doubles' & bagäbu & 'similar' \\
\hline & 'aga-mule & 'brothers' & 'aga & 'elder brother' \\
\hline & neru-mule & 'younger siblings & neŋu & 'younger \\
\hline & & & & sibling' \\
\hline & uil'e-mule & 'wives of one man' & & 'a little girl \\
\hline & & & who live of her fu & house band' \\
\hline & zue-mule & 'wives of one man' & zue & 'a wife taken \\
\hline & & & from & clan \\
\hline
\end{tabular}

The words cited above are regular nouns, cf. the examples below where they appear in a case form (Dative in (244a), Accusative in (244b)), or are modified by an adjective (245) or a numeral (246). Example (246b) shows that they may refer to more than two people.
a. Unta tie-mule-du sije ono-no-mi boot pair-N-DAT mouse nest-DEST-REF wo:-ni.
make.PAST-3SG
'A mouse made a nest in the pair of boots.'
b. Bi ise:-mi
gagda-mule-we
uligdig'a-ŋku. me see.PAST-1SG other-N-ACC beautiful-PL 'I saw a beautiful couple.'

Bue-ti ketu aja anda-mule bi:-ti. he-3PL very nice friend-N be-3PL
'They are a very nice couple.'
a. Bagdi:-ti zu: 'aga-mule. live-3PL two elder.brother-N 'There live two brothers.'
b. ila xunazi-mule three sister-N 'three sisters'

The nouns derived with -mule take the regular Plural affix -ziga, for example, xa:-mule-ziga 'brothers' (SK 985). They are not present with regular possessive suffixes in our material, but used in the predicative function they are compatible with the Alienable Possessive suffix - \(\eta i(4.1 .4 .4)\).

Ni ugda-ni? \(\quad \mathrm{Zu}: \quad x a:-m u l e-\eta i\).
who boat-3SG two sibling-N-AL
'Whose is the boat? The two brothers.'
5.1.3.14. The suffix \(-g d A,-g d u\)

This denominal suffix derives certain tree names (248a) and some other nouns (248b), cf.:
a. talu-gda xulu-gda
'birch tree'
'aspen tree'
taku 'birch tree' xulu 'aspen tree'
\begin{tabular}{lll} 
b. \begin{tabular}{ll} 
kä-gda \\
dawama-gda
\end{tabular} & 'ice' & kä- \(\quad\) 'ngu 'slippery' \\
xo:-gdor salmon' & dawa 'salmon' \\
& 'upper part of a & xo:
\end{tabular}

\subsection*{5.1.3.15. The suffix -mzi,-mdi}

This is a common Tungus suffix rare in Udihe (cf. Ulcha beleči-mdi 'helper' from beleči- 'help', wa:iča-mdi 'hunter' from wa:iča- 'hunt'). It derives animate nouns from other nouns, adjectives, and adverbs, cf.:
(249) bongo-mzi 'leader, first dog in a team' bongo 'first, main' \(\tilde{n o}(l o)-m d i \quad\) 'leader'
sagdi-mdi, sagdi-mzi
'the oldest man'(SKX 308)
ño: 'ahead'
sagdi 'big'

The word tefesi-mzi 'leader' (from tefesi- 'lead') was created by Schneider (Schneider 1936) according to the existing pattern (which was apparently productive at that stage). Cf. also the same-subject Perfective Converb form with the suffix -mzi in the Northern dialect (1.3.2.4) and a number of Nomina agenti cited in Sunik (1968: 218).

\subsection*{5.1.3.16. Other suffixes}

Each of the following suffixes occurs in only a few words.
-mni-
bele-mni 'helper' (bele- 'help'); tatu-mni- 'teacher' (cf. tatusi- 'teach'); this suffix is very productive in other Tungus languages.
-mti
dulu-mti (or: dulu-mtu) 'the third finger; the middle prong of the harpoon' (cf. dulä 'middle brother'); japca-mti 'rudder' (cf. jayca- 'steer').
-ktu
zeŋme-ktu 'greedy-guts' (zenme 'greedy'), cem(i)ne-ktu 'liar' (cemne- 'lie'); this suffix denotes a person by a (negative) quality and is homophonous with the suffix of the Resultative Participles (7.6.1.4).
-mpA(i)
zegde-mpe 'burnt wood' (zegde- 'burn'), siza-mpa(i) 'young trees thicket' (siz'ai 'thicket') (K 284); ikte-mpei 'young fir tree thicket' (ikte 'young fir tree').
-tigi, -tige
mak-tigi 'tool for spinning rope' (< *makci- 'spin'); kefu-tige 'cartilage' (cf. kefu-ge- 'gnaw').
\(-f A\)
co-fo 'claw' (cf. cosu-le- 'scrape').
-dugu
\(u:-d u g u\) 'scratching tool' ( \(u\) :- 'scratch').
-nige
\(e\)-nige 'side prongs of the harpoon' ( \(e:-\) 'side'), bu-nige 'beyond the grave world' (cf. bu-de- ‘die').
-(či) \(\eta^{\prime} A\)
alagdi- \(>\) 'a 'beauty' (cf. alagdig'a 'beautyful'), pakči- \(\eta\) 'a 'master (cf. paki 'skilful').
-mAgdA
derives de-numeral nouns: ila-magda 'three (in games)' (ila ' 3 '), di:-megde 'four' (di: '4'), tura-magda 'five' (tuŋa '5'), ñuŋu-megde 'six’ (ñuŋu '6'), nada-magda 'seven' (nada '7').
-ntu
\(z e:-n t u\) 'left-hander' (cf. ze:-ŋeze 'left side').
\(-k A,-k u\)
mama-ka 'old woman' (mama 'grandmother'), puta-ka 'crop, craw' (K 279) (puta 'bag'), sou-ku 'tease, teaser' (K 287) (sou- 'pick on').

\subsection*{5.2. Zero-derivation}

By zero-derivation we mean a type of word formation by which a word is shifted into another grammatical class without morphological marking. In fact, this is not widely spread in Udihe. Besides, when a noun and a corresponding verb have the same stem, the direction of the derivational process is not easy to establish. We will start from the idea that in a pair "concrete noun - verb" the base word is typically a noun, while in a pair "abstract noun - verb" the direction is the opposite. In both cases, however, the decision is conventional. Noun-to-verb conversion is treated in 8.4.2. A few hypothetical cases of verb-to-noun conversion are presented below (5.2.1), together with participle-to-noun conversion (5.2.2), and adjective-to-noun conversion (5.2.3).

\subsection*{5.2.1. Verb-to-noun conversion}

Action nominals may be derived from the corresponding verbal stems through zero-derivation.
\begin{tabular}{lll} 
zima & 'visit, guests' & zima- \\
bude 'go on a visit' \\
bagdi 'death' & bude- & 'die' \\
tuké: & 'running' & bagdi- 'live' \\
tukä:- 'run'
\end{tabular}

The only function of converted nouns of this type is to fill the object valency of certain verbs listed in 14.3.1.4. In this case they take the Accusative affix -wA but do not inflect for person. With respect to their external syntax, they show some verbal properties, namely, they preserve the valencies of the corresponding verb (251) and can be modified by an adverbial (252). Note that the complements of these deverbal nouns either precede (251b, 251c) or follow them (251a). Example (251a) additionally demonstrates that the converted nouns can be derived from the verbal stem inflected with an aspectual (Repetitive) affix, while sentences (253) show the passive variants of the action nominals.
\begin{tabular}{lll} 
a. \begin{tabular}{l} 
Sagdi ma:ma \\
big \\
sita-wa. \\
child-ACC
\end{tabular} & \begin{tabular}{l} 
ča:la-ini
\end{tabular}\(\quad\)\begin{tabular}{l} 
bu-gi-we \\
grandmother \\
want-3SG
\end{tabular} \\
'The Great Grandmother agrees to give the child.' (SKX 296)
\end{tabular}
b. Bi sin-tigi dian-a-wa ei-mi ca:la. me you-LAT say-0-ACC NEG-1SG want 'I don't want to talk to you.'
c. Belie ča:la:-ni nexus'e jegdige-le fairy want.PAST-3SG younger brother-LOC mafa-la-wa.
husband-V-ACC
'The fairy agreed to marry the hero, the younger brother.' (SKX 230)
a. Od'o
grandfather
ba:-za ge-le-ni
place-N surface-LOC-3SG
bagdi-we aju-ini.
live-ACC like-3SG
'Grandfather likes to live in the forest.'
b. Nua-ni c̆a:la:-ni
he-3SG agree-PAST-3SG again sing-ACC
'He agreed to sing again.'
c. Bi ei-mi aju tuge-zi tukä:-wa.
me NEG-1SG like quick-INST run-ACC
'I don't like to run quickly.'
(253)
a. Ma:ma
grandmother
siekte-we
thread-ACC
ise-u-si:-ni ono-do
see-CAUS-IM-3SG how-IND
tompo-u-wa sumu-zi.
'Grandmother is showing how to twist threads with tendons.'
(SK 393)
b. Ise-we-je
ono gakpa-si-u-we. see-CAUS-IMP.2SG how arrow-V-PAS.PRP-ACC 'Show (me) how to shoot arrows.' (SKX 88)

Other nouns of this type seem to have undergone further substantivization, as, for example, the following:
\begin{tabular}{llll} 
telunu & 'story' & telunu- & 'tell' \\
jexe & 'song, singing' & jexe- & 'sing' \\
etete & 'work' & etete- & 'work'
\end{tabular}

They take all inflections typical of nouns and are modified by a demonstrative or an adjective, rather than by an adverb, cf.:
(255) \(B i \quad e i \quad e t e t e-w e ~ m e t u-z e \eta e-i . ~\)
me this work-ACC finish-FUT-2SG.
'I'll finish this work.'

\subsection*{5.2.2. Participle-to-noun conversion}

\subsection*{5.2.2.1. Destinative Participles}

The Destinative Participles with the suffix -kči (7.6.1.3) undergo substantivization. This process is fairly productive. The resulting nouns denote places, containers, or objects designated for a particular action.
\begin{tabular}{|c|c|c|c|c|}
\hline (256) & (zä:) nekce-kči & 'purse' & nekce- & 'keep' \\
\hline & (zä:) teuse-kči & 'purse' & teu- & 'load' \\
\hline & \(l a-k c ̌ i\) & 'mill' & la- & 'grind' \\
\hline & mule-kči & 'ice-hole' & *mu:-le- & 'fetch water' \\
\hline & kuge-kči & 'bellows' & kuge- & 'forge' \\
\hline & adamasi-kči & 'mountain pass' & adamasi- & 'cross the mountain' \\
\hline & dawasi-kči & 'place for fishing salmon' & dawasi- & 'fish salmon' \\
\hline & dausi-kči & 'river crossing' & dau- & 'cross the \\
\hline
\end{tabular}

The converted nouns demonstrate all the morphological and syntactic properties of regular nouns, however, they are able to assign the Accusative case, as are transitive base verbs, for example: dami-we teuse-kči 'snuff-box' (dami 'tobacco', teuse- 'keep').

\subsection*{5.2.2.2. Present active participles}

Some impersonal Present active participles form stable lexicalized expressions with the noun (257) or are substantivized by means of the Collective Plural word getu (258).
(257) wakca-i ni: 'hunter' (hunting man)
<hunt-PRP man>
xuda-si: ni: 'merchant' (selling man)
<fur-V.PRP man>
(258)
xuda-si: getu 'merchants'
<fur-V.PRP PL>
wakca-i getu 'hunters'
<hunt-PRP PL>
ise-ne-i getu 'audience (literally: seeing people)'
<see-DIS-PRP PL>

The participle can sometimes be postponed (raised), cf.:
(259) zube ni: xuda-i getu 'two merchants'
<two man fur-PRP PL>

\subsection*{5.2.3. Adjective-to-noun conversion}

Virtually every adjective may receive certain nominal properties within a headless noun phrase (22.2.3). When they refer to persons they can be pluralized with the collective word getu, see 6.1.2.1. Examples of lexicalized substantivized adjectives are: koto 'bald one' (cf. nada koto 'seven bald ones'), di:n-zi to: ydo koso-xi 'rectangle' <four-INST straight angle-ADJ> (Schneider 1936: 26), cf. also several substantivized adjectives originally derived with the suffix -mA (6.4.1.2.1) such as xala-ma 'two-teeth harpoon' (xala 'forked branch'), sigili-me 'thick soup' ( sigili- 'stir'), and kä-ma 'rocky mountain' (kä: 'edge'). Obviously nouns in -xi that denote animals (5.1.2.7) are also a result of such substantivization, as well as nouns in -(n'A)use (see 6.4.1.4.1). An example of lexicalized ideophonic adverb is montom-ziga 'circles (PL)'.

\section*{Chapter 6 Adjectives}

This chapter deals with the inflectional and derivational categories of adjectives. Unlike nouns and verbs, Udihe adjectives represent a rather vague grammatical class. In many respects they behave morphologically and syntactically like nouns and attributive verbs (participles).
Like nouns, adjectives function syntactically as attributive modifiers (13.2), or as predicates (17.2.2.1.1), and may sometimes function as arguments (see Chapter 14 and 22.2.3). Under certain conditions they demonstrate at least some of the properties of the noun phrase (24.2.1.1). Like nouns, in some syntactic positions they inflect for case and number and take possessive affixes. A formal distinction between nouns and adjectives can, however, be made, using the following criteria: (i) most attributive adjectives can undergo syntactic raising (24.2.1.1), whereas nouns in the attributive function never raise; (ii) certain classes of adjectives can function as the syntactic head of an adjectival phrase that includes degree adverbials and a standard of comparison (6.3.4), whereas nouns never can; (iii) plurality is expressed for adjectives by the morphological marker \(-\eta k u\), which is not used for nouns.

Adjectives and participles are similar with respect to their syntactic behavior as attributes: both these categories can raise within the noun phrase and acquire certain head properties (see 24.2.1.1 on raised adjectives and 19.2 on raised participles within the relative clause). The following are the formal criteria that separate adjectives from participles: (i) (active) participles are not used as independent finite predicates, whereas adjectives are; (ii) on the other hand, adjectives do not function as subordinate clause predicates; (iii) only a few adjectives (6.3.3) take more than one argument, whereas participles preserve the valence patterns of the corresponding verb; (iv) participles may not be modified by the noun phrase that corresponds to the standard of comparison; (v) participles do not take the Plural affix - \(\eta k u\), which is typical only of adjectives (plurality of participles is expressed by other means); (vi) participles follow the derivational morphology of verbs, whereas adjectives have special derivational affixes (6.4.1.1).

Adjectives fall into two large groups that are characterized by different syntactic and morphological properties: simple adjectives and compound adjectives. Their morphology is described in sections 6.1 and 6.2 respectively. The main properties of the adjectival phrase are discussed in 6.3; the formation
of adjectives is addressed in section 6.4, where 6.4 .3 deals specifically with compound adjectives.

\subsection*{6.1. Inflection of simple adjectives}

Simple adjectives either function as predicates (17.2.2.1.1), or in the attributive function (13.3). As will be shown in 13.2, within a noun phrase which is neutral with respect to information structure the adjective modifier is prenominal and does not take any morphological markers except for the optional Plural affix. When attributive adjectives undergo modifier raising (24.2.1.1), they are postnominal and inflected for case, number, and possession. When the head noun is not overtly present (22.2.3), or when the attributive adjective is located discontinuously with respect to it, the adjective takes case and number inflections. Independent adjectives in certain case forms function as arguments (Chapter 14) and function as temporal adjuncts (15.4.2.1). Used in the predicative function, adjectives inflect for number (17.2.2.1.4) and can sometimes take possessive affixes (24.3.2.1).

Information on the syntax of these constructions is provided in the corresponding sections. Here we only describe the peculiarities of the adjectival inflection.

\subsection*{6.1.1. Adjectival stems}

As shown in 6.4, adjectives do not constitute a uniform class with respect to their formation: they can be derived with numerous derivational affixes, by means of conversion and compounding. Morphologically simple adjectives seem to conform to the general property of nouns and verbs with respect to two classes of stems: they exhibit class I (vowel-final) stems and class II ( \(n\)-final) stems. Adjectives that have \(n\)-final stems follow the peculiarities of the \(n\)-declension typical of nouns (see 4.1.1). However, in the modern Southern dialect only a few adjectives belong to this morphonological class. These are the quantitative adjectives wac'a 'little, few', egdi 'many, much, numerous', and teu 'all' addressed in 11.2. Compare their Accusative forms demonstrating the affix -mA typical of the class II declension: wac'a-ma, egdi-ma, and teu-me-ni, correspondingly.

Other class II adjectives have undergone a process of unification with class I stems. For the following adjectives Schneider (1936) marks the class II declension: the quantifier \(x a-n i\) 'some', the adjectives ( \(\eta\) ) ic' \(a\) 'small' and inigi 'vivid'. At present, Accusative forms ending in -mA are no longer used for these adjectives by most speakers, although the variant ic'a-ma is not absolutely impossible, cf.:
(259)
\begin{tabular}{ll} 
Min-du & ic'a-ma \\
me-DAT & small-ACC
\end{tabular}
'Give me a small one.'
bu-je.
give-IMP.2SG

We can also hypothesize that the traces of \(n\)-final adjectival stems are present in \(n\)-initial derivational affixes that exhibit alternation, such as, for example, the affix -n'Ause ~ (')-use (6.4.1.4.1). Some other \(n\)-initial affixes (or those beginning with \(\eta\) before the velar) do not exhibit variations of this type, but the data from closely related languages demonstrates that initially the suffix did not begin with the nasal. So after the unification of the class I and class II adjectival stems in Udihe the morpheme boundary must have moved. Cf., for example, the Udihe suffixes -ndima (6.4.1.1.7) and - \(-\eta k u\) (5.1.1.4) and the comparative data from related languages.
a. Ulcha
\begin{tabular}{llll}
\begin{tabular}{l} 
nada(n) \\
duli(n)
\end{tabular} & \begin{tabular}{l} 
'seven' \\
a:ga
\end{tabular} & \begin{tabular}{l} 
'middle' \\
'(elder)
\end{tabular} & \begin{tabular}{l} 
nadan-duma \\
dulin-duma \\
ag-duma
\end{tabular}
\end{tabular} \begin{tabular}{l} 
'the seventh' \\
'the middle'
\end{tabular}

\subsection*{6.1.2. Inflectional categories}

The following inflectional categories of adjectives will be described here: number, case, and Possession. The order of morphemes in the adjectival word is as follows:
stem - number - case - Possessive

For example:
\[
\begin{equation*}
i c ' a-\eta k u \text {-we-ni ‘small’ <small-PL-ACC-3SG> } \tag{262}
\end{equation*}
\]

\subsection*{6.1.2.1. Number}

The Singular is not morphologically marked, while the Plural may be expressed with special morphological means (6.1.2.1.1). It can also be rendered by the restrictive particle m'ei 'all, entirely, only, exclusively' (12.1.1.9.3) when it immediately follows the adjective.

For substantivized adjectives referring to animate persons within headless constructions (22.2.3) plurality is marked with the Plural word getu compatible only with nouns, cf.: baja getu 'rich ones', sisiga getu 'diligent ones', and bali getu 'blind ones'.

\subsection*{6.1.2.1.1. Plural marker - \(\eta k u\)}

The Plural marker of the adjective is \(-\eta k u\). Normally only non-derived adjectives or adjectives derived with non-productive affixes take the affix \(-\eta k u\), for example: imexi-ŋku 'new (PL)', manga-ŋku 'strong (PL)', nemne-s'e-ŋku 'narrow (PL)'. In a few words the final \(/ i /\) of the stem changes to \(/ a /\) before \(-\eta k u\) (cf. 2.1.4.7).
(263) SG
sagdi
agbi
wani-mi
dämi

PL
\begin{tabular}{|c|c|}
\hline 'big' & sagdä-ŋku \\
\hline 'wide' & \(a g b a ̈-\eta k u\) \\
\hline 'long' & wanimä-ŋku \\
\hline 'thick' & dämä-пku \\
\hline
\end{tabular}

Adjectives of color (6.4.1.1.3), time (6.4.1.3.1), possession (6.4.1.2.2), and material (6.4.1.2.1), derived with the suffixes \(-l i g i\), \(-f i /-p t i,-x i\) and \(-m A\), respectively, do not take the Plural suffix - \(\eta k u\). Instead, they are often accompanied by the restrictive particle m'ei (see 12.1.1.9.3), which can signify plurality.

\subsection*{6.1.2.1.2. Function of adjective Plural forms}

As shown in 4.2.1, the expression of plurality in nouns is not grammatically obligatory and depends on how the situation is perceived by the speaker. Normally the exact interpretation of number can only be understood from the context. The adjective is more consistent in this respect: often it is marked for plurality even if the noun it modifies is not. Altogether, Plural agreement within the noun phrase with the adjectival modifier is not obligatory (see 13.2.2).

Most regularly, the Plural is morphologically marked on the adjective when the noun it modifies corresponds to the subject or the direct object role. Both the prenominal and postnominal (raised) adjective may be marked for plurality, cf.:
a. Min-du imexi-ŋku mo:-wo juykäla:-ti.
me-DAT new-PL tree-ACC fetch.PAST-3PL


When the head noun does not correspond to the subject or the direct object, the Plural marking on the adjective is rare with the exception of the copredicative adjective in the Instrumental (19.6). Cf., however, the following example:
\begin{tabular}{lll} 
Ic'a-yku & pei-zi & tokto-so. \\
small-PL & piece-INST & cut-PP.PAS
\end{tabular}
'It is cut into small pieces.'

In constructions with a discontinuous modifier (24.2.2.2), or with head noun ellipsis (22.2.3), the Plural marker - \(\eta k u\) is usually overtly present on the adjective.

Adjectives in the predicative function typically take the Plural marker which regularly signalizes plurality of subject. For further information on Plural agreement in copular adjectival constructions and examples see (17.2.2.1.4).

\subsection*{6.1.2.2. Case}

As argued in 13.2, under neutral communicative conditions an adjective in the attributive function does not inflect for case, so case agreement between the modifier and the head noun is absent (exceptions are certain quantificational adjectives, see 13.3.4). Adjectives take case affixes only when they belong to one of the following syntactic types:
(i) a substantivized adjective within a headless noun phrase (22.2.3);
(ii) a discontinuous attributive modifier (24.2.1.2);
(iii) a raised attributive modifier (24.2.1.1);
(iv) an independent copredicative adjective (19.6);
(v) adjectives in the Dative (14.4.1.2) and Instrumental (14.3.4.1) that take an argument position;
(vi) adjectives in the Dative that function as temporal adjuncts (15.4.2.1);
(vii) adjectives in the Accusative in a copular complement clause with an omitted copula (20.2.2.4).
Examples are presented in the corresponding sections.
The functions of the cases and case morphemes are the same for adjectives as for nouns (4.2.2). Most adjectives follow the type I declension, and only a few quantificational adjectives (see 6.1.1) belong to type II.

\subsection*{6.1.2.3. Possessive}

The Possessive as a grammatical category is typical of nouns. Possessive affixes on adjectives appear under special conditions:
(i) The \(3^{\text {rid }}\) person Possessive affix \(-n i\) is present on the raised attributive modifier (24.2.1.1); such a phrase then formally coincides with a possessive construction (13.1);
(ii) The \(3^{\text {rd }}\) person Possessive affix -ni may be present on the adjective in the predicative function under certain communicative conditions (24.3.2.1). Normally, the semantics of this construction presupposes a certain emphasis on the adjective and/or a high intensity of the feature named by the adjective, and the Possessive marker is the only means to signal this semantics.
(iii) In copular complement clauses the copula verb may be omitted and then the predicative adjective takes the Accusative case and the possessive affix referring to the subject of the complement clause (20.2.2.4).

Example (266a) illustrates the raised adjective, and example (266b) the predicative adjective with the possessive suffix.
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
In'ei \(\quad\) kuaja-ni \\
dog
\end{tabular} & \begin{tabular}{l} 
xukti-e-ni. \\
\\
'A very fast dog has run.'
\end{tabular} & \\
& run-PAST-3SG
\end{tabular}
b. Mäna ge:-ni.
flour bad-3SG
'The flour is (very) bad.'
Adjectives derived with the suffixes -ligi (6.4.1.1.3), -xi (6.4.1.2.2), -fi/-pti (6.4.1.3.1) and \(-m A\) (6.4.1.2.1) never take possessive affixes. On discontinuously located attributive adjectives (24.2.1.2) the possessive affixes are absent.

\subsection*{6.1.2.4. Emphatic form}

Certain (mostly parametric) adjectives have a special emphatic form marked with \(-i\). Although its status and meaning are not entirely clear, it seems to be present when the corresponding adjective is focused and/or its meaning is somewhat intensified. The emphatic form is compatible with adjectives both in the predicative and attributive function, and otherwise the construction remains unchanged. The adjectives that have an emphatic form in \(-i\) are:
(i) all adjectives derived with the Diminutive suffix \(-s^{\prime} A /-c^{\prime} A\) (6.4.1.1.2), including the quantificational adjective wac'a 'little, few' (11.2.1);
(ii) the following adjectives:
(267)
alagdig'a, uligdig'a
mogz'o
zongo
boxo
p'ala
bombolo
\begin{tabular}{lll} 
'beautiful' & koto & 'bald' \\
'naked' & gafa & 'prickly' \\
'naked' & xekui & 'hot' \\
'hunchbacked' & zas'a & 'light, pliable, cheap' \\
'black' (SK 742) & \\
'round' (SK 173) &
\end{tabular}

Examples of the use of the emphatic form are given below. In the glosses the emphatic/focus \(-i\) is represented as FOC, although this might not be completely accurate. When the adjective in the predicative function is followed by the focus particle \(-d A\), the emphatic form of the adjectives listed above is strictly obligatory (269).
a. Nua-ni alagdig'a-i a:nta bi-s'e.
he-3SG beautiful-FOC woman be-PERF
'She was a (very) beautiful woman.'
b. Ei a:nta alagdig'a-i bi-s'e. this woman beautiful-FOC be-PERF
'This woman was (very) beautiful.'
c. Čaja xekui:, eke umi-je.

Tea hot.FOC slow drink-IMP.2SG
'The tea is (very) hot, drink it slowly.'
d. Bi xekui: čaja-wa umi-kce:-mi.
me hot.FOC tea-ACC drink-INT.PAST-1SG
'I wanted to drink (very) hot tea.'
e. B'ata ic'a-i zä:-wa b'a-ni. boy small-FOC money-ACC find.PAST-3SG
'The boy found a small coin.'
a. Ei kuŋka mo:-ni nemnes'e-i-de.
this cedar tree-3SG slender-FOC-FOC
'This cedar is (very) slender.'
b. Lena jä:-ni uligdig'a-i-de.

Lena eye-3SG beautiful-FOC-FOC
'Lena's eyes are (very) beautiful.'
c. Ei moxo zas'a-i-de.
this cup cheap-FOC-FOC
'This cup is (very) cheap.'
d. Nua-ni nukte-ni wac'a-i-de.
he hair-3SG little-FOC-FOC
'He has little hair.'
Emphatic forms of adjectives do not occur with negation when the adjective corresponds to the finite predicate.
\(\begin{array}{clll}\text { (270) } \begin{array}{ll}\text { *Nua-ni } & \text { alagdig'a-i } \\ \text { he-3SG } & \text { e-ini } \\ \text { beautiful-FOC } & \text { NEG-3SG }\end{array} & \text { bie. } \\ \text { be.PRES.HAB }\end{array}\)
'She is not beautiful.'

\subsection*{6.2. Inflection of compound adjectives}

Compound adjectives do not inflect. Plurality may be expressed with the restrictive particle m'ei (12.1.1.9.3). The content element always immediately precedes the copula. When compound adjectives are used predicatively the copula must be overtly present in the clause either in the personal form or in the Habitual impersonal form bie (see 17.2.2.6 for further detail and examples). In the attributive function the copula corresponds to the Present active participle bi: or the Habitual Present Participle bie. Such a construction is formally similar to the internal (19.2) or external (19.1) relative clause, cf.:
\begin{tabular}{lll} 
a. & \begin{tabular}{l} 
kusige \(\quad\)\begin{tabular}{c} 
cem-cem \\
sharp-sharp
\end{tabular} \\
knife
\end{tabular} & \begin{tabular}{l} 
bi:-we-ni \\
be.PRP-ACC-3SG
\end{tabular} \\
'the sharp knife (ACC)'
\end{tabular}
b. Nua-ni aju-ini dogbo pou-pou
he-3SG like-3SG night dark-dark
bi:-we-ni.
be.PRP-ACC-3SG
'He likes the dark nights.'
\begin{tabular}{lll} 
c. & zugdi \(\quad\) ze:-li & bi:-we-ni \\
house & middle-ADJ & be.PRP-ACC-3SG \\
'middle-sized house (ACC)'
\end{tabular}
d. Bi ise:-mi tege-we ño:mi
me see.PAST-1SG gown-ACC blue
bi:-we-ni.
be.PRP-ACC-3SG
'I saw a blue gown.'
(272) a. Bi b'agdi-mi ze:li bi: zugdi-du.
me live-1SG middle be.PRP house-DAT
'I live in a middle-sized house.'
b. நafu-ñeñe bie guzakta-ni
dense-ADJ be.PRR.HAB beard-3SG
'his thick beard'
```

c. Min-du ono bi: dexem ic'a-\etaku sagdä-\etaku
me-DAT how be.PRP IND small-PL large-PL
ze:-li bi: moxo bie.
middle-ADJ be.PRP mug be.PRES.HAB
'I have all sorts of mugs-small ones, large ones, and middle-sized
ones.'

```

Note that simple adjectives are also compatible with the copula \(b i\)-. These cases are referred to as copular relative clauses (19.4).

\subsection*{6.3. General properties of the adjective phrase}

\subsection*{6.3.1. Adverbs within the adjective phrase}

Adverbial elements within the adjective phrase are the degree adverbs ketu 'very', asi 'very', läs(i) 'very', and some others (10.1.4.1). They always precede the adjective: ketu ganzinga 'very clean', asi seuni: 'very scary', läs(i) inini 'very cold'. The restrictive focus particle \(m\) 'ei seems to function as a degree adverb 'very, completely' when it follows certain parametric adjectives (see also 12.1.1.9):
\[
\begin{array}{ll}
\text { ge: m'ei (< 'bad' + m'ei) } & \text { 'very bad, nasty, disgusting' }  \tag{273}\\
\overline{n a} a \eta m u \text { m'ei (< 'clear' + m'ei) } & \text { 'completely clear (of the sky)' }
\end{array}
\]

\subsection*{6.3.2. Adjectives that take a second argument}

Only a few adjectives may (optionally) take a second argument apart from the subject. They are listed below, together with an indication of the case of the second argument:
go:
das'a
xonto
d'ofo
paki
bubei, bejeku, bu:f(e)i(ni), beptigi
\begin{tabular}{ll} 
'far' & ABL \\
'close' & LAT \\
'different' & ABL \\
'identical' & NOM \\
'skilful' & PART \\
'alike, similar' & NOM
\end{tabular}

Within the adjective phrase the argument noun phrase normally precedes its head.
a. Wanba j'eu-de bui-digi-ni xonto. tortoise what-IND animal-ABL-3SG different 'A tortoise is different from all other animals.'
\begin{tabular}{lllll} 
b. & Bi si & in'ei & bubui-we & \(s a:-m i\). \\
& me you & dog & similar-ACC & know-1SG
\end{tabular} 'I know a dog similar to yours.'
c. Bi ni:-we ise:-mi ami-mi bubui-we. me man-ACC see.PAST-1SG father-REF similar-ACC 'I saw a man looking like my father.'
d
\begin{tabular}{llll} 
d. & Xai & si & bu:fi b'a \\
again & you & similar find.PP & bi-s'e-i. \\
& be-PERF-1SG
\end{tabular}
'Again I have found (a girl) looking like you.'
e. Nua-ni tege-le paki.
he-3SG gown-PART skilful
'She is skilful at (making) gowns.'

\subsection*{6.3.3. Comparative adjective phrase}

Comparison is expressed within the adjective phrase only by means of the Ablative noun phrase that corresponds to the standard of comparison. The adjective itself does not take any special comparative morphemes. Since the Ablative noun phrase standard of comparison is always optional and its removal does not affect the grammaticality of the sentence, it is analyzed here as an adverbial element within the adjective phrase. The standard of comparison may precede the adjective (276) or follow it (277).
\begin{tabular}{llll} 
a. & Ussuri & Biki-digi & supta. \\
& Ussuri & Bikin-ABL & deep
\end{tabular}
'The Ussuri is deeper than the Bikin.'
b. Ei ogbö sebie wa:n-digi: sagdi. this elk earlier kill.PP-ABL.1SG big 'This elk is bigger than the one I killed earlier.'
c. Nua-ni ugda-ni si ugda-digi: aja. he-3SG boat-3SG you boat-ABL.2SG nice 'His boat is better than yours.'
d. Ei we: tauxi we:-digi j'eu this mountain that mountain-ABL what
ba:-la-ni gugda.
place-LOC-3SG high
'This mountain is much higher than that mountain.'
(277) a. Bi unta-i sagdi-ndima si unta-digi:. me boots-1SG big-ADJ you boots-ABL.2SG 'My boots are bigger than yours.'
b. Nina diliga Sweta-digi. Nina stupid Sveta-ABL 'Nina is more stupid than Sveta.'
\begin{tabular}{lllll} 
c. & Bi tege-i & imexi-ndima & si & tege-digi.: \\
me gown-1SG & new-ADJ & you & gown-ABL.2SG \\
'My gown is newer than yours.' & &
\end{tabular}

The standard of equative constructions may be expressed by means of the postposition bede 'like' (10.2.2.2.3). On equative comparatives see also 6.4.1.1.5.

\subsection*{6.3.4. Expression of measure}

A measure in comparative constructions is expressed by the Instrumental noun phrase (278), or - less frequently - by the Nominative noun phrase (279).
```

a. Bi sin-digi zube ana-zi-ni
me you-ABL two year-INST-3SG
sagdi bi-mi.
old be-1SG
'I am two years older than you.'

```
b. Nua-ni min-digi gugda ila santimetra-zi.
    he-3SG me-ABL tall three centimeter-INST
    'He is three centimeters taller than me.'
a. Bi abuga-i zube neni-ni ñondo
me father-1SG two day-3SG early
    enine-digi eme:-ni.
    mother-ABL come.PAST-3SG
    'My father came two days earlier than my mother.'
b. Nua-ni min-digi ila nina gugda. he-3SG me-ABL three finger tall 'He is three inches taller than me.'

\subsection*{6.3.5. Superlative adjective phrase}

Like the comparative degree, the superlative degree is not morphologically marked on the adjective but is expressed analytically by means of the superlative particle \(c\) ' \(o\) 'most' that precedes the corresponding adjective.
(280) a. Ei nakta c'o bogo. this boar most fat 'This boar is the fattest.'
b. c'o sagdi b'ata most big boy 'the biggest boy'
c. Nina c'o alagdig'a xatala-digi. Nina most beautiful sister-ABL 'Nina is the most beautiful of the sisters.'
d. Nua-ni wo:-ni zugdi c'o uligdig'a. he-3SG make.PP-3SG house most beautiful 'The house he made is the most beautiful.'

As demonstrated by (280c), the standard of comparison is marked by the Ablative case.

The high degree of the feature named by a (parametric) adjective may also be expressed by its repetition (cf. expressive repetition of adverbs in 10.1.6).

\subsection*{6.3.6. Adjectives that govern a subordinate clause}

The adjectives manga 'strong at, good at' and paki 'skilful at, good at' in the predicative position take a subordinate clause argument. The subordinate clause is expressed by the Present active participle with the personal marker referring to the subordinate clause subject. The latter is coreferential to the subject (the first argument) of the predicative adjective, cf.:
a. Kuti wakca-i-ni manga.
tiger hunt-PRP-3SG strong
'The tiger is good at hunting.'
b. Ei aziga jexe-i-ni-de paki
this girl sing-PRP-3SG-FOC skillful
uli:-ni-de paki.
sew.PRP-3SG-FOC skillful
'This girl can sing and sew skillfully.'
c. Sin-digi sigdi b'a-i-ni manga. you-ABL angry get-PRP-3SG strong
'He is very angry with you.'
d. Ei ja: ketuge: m'ei bi-s'e, this cow very bad only be-PERF ni:-we je-si:-ni manga bi-s'e. man-ACC but-MUL.PRP-3SG strong be-PERF
'The cow was very nasty, it butted people a lot.'

\subsection*{6.4. Adjectival derivation}

Udihe adjectives are very variable in respect of word formation. Some adjectives have no transparent derivational structure and correspond to the bare stem: baja 'rich', manga 'strong', sagdi 'big', imexi 'new', suyta 'deep', igdi 'loud', bogo 'fat' etc. Certain morphologically simple adjectives are borrowed from Chinese: kuaja 'fast', ganzina 'clean'. The majority of adjectives are formed with special derivational affixes. Adjectives are derived by means of suffixes from other morphologically more simple base adjectives (deadjectival derivation, 6.4.1.1), from nouns (denominal derivation, 6.4.1.2), from adverbs (de-adverbial derivation, 6.4.1.3), and rarely from verbs (de-verbal derivation, 6.4.1.4). In the adjectives with several derivational suffixes, suffixes of the deadjectival derivation follow the interclass derivation affixes.

Other means of adjective formation are conversion (6.4.2) and compounding (6.4.3).

\subsection*{6.4.1. Suffixation}

Suffixation is a principal means of adjective formation in Udihe. All adjectival suffixes are glossed as ADJ, independent of their meaning, except for the Diminutive suffix (6.4.1.1.1) for which the gloss DIM is accepted.

\subsection*{6.4.1.1. Deadjectival derivation}

This section describes the suffixes that attach to the morphologically simpler base adjective. Although, as mentioned in 6.3, the comparative and superlative degree is expressed only analytically and is not reflected in the form of the adjective, there is a large group of affixes of deadjectival derivation that intensify (strengthen) or deintensify (weaken) the meaning of the base adjective.

\subsection*{6.4.1.1.1. The Diminutive suffix -zig'a}

The Diminutive suffix -zig'a typical of nouns (5.1.1.1) is productive with adjectives as well. Structurally, the Diminutive follows the Plural affix: uligdig'a-ŋku-zig'a <nice-PL-DIM>. Most frequently the Diminutive co-occurs with parametric adjectives derived with the suffix \(-c^{\prime} A /-s^{\prime} A(6.4 .1 .1 .2)\) where it evokes the appearance of the so-called "emphatic form" ending in -i (6.1.2.4), for example: umac'a-i-zig'a 'short', enimac'e-i-zig'a 'light'.

The Diminutive attached to the adjective renders the meaning 'small, little' with respect to the noun it modifies, or to the subject noun if the adjective is used predicatively. Thus, (282a) and (282b) are synonymous.
a. Ei moxo-ziga uligdig'a-i-de. this cup-DIM nice-FOC-FOC 'This little cup is nice.'
b. Ei moxo uligdig'a-i-zig'a. this cup nice-FOC-DIM
'This little cup is nice.'

As with nouns, the Diminutive may have an affectionate rather than a purely diminutive meaning:
a. Käŋa sike-ziga.
deer young-DIM
'The deer is young.'
\(\begin{array}{lll}\text { b. } & \text { Ise-i, } & \text { ono-fi } \\ \text { see-IMP.2SG } & \text { how-ADJ } & \begin{array}{l}\text { kuaja uligdig'a-i-ziga! } \\ \text { butterfly nice-FOC-DIM }\end{array}\end{array}\)
'Look, what a nice butterfly!'
c. J'eu mamasa-na-m(i)
what wife-DIR-INF bi-mie?
be-INF
'How are you going to marry being so small?'

\subsection*{6.4.1.1.2. Diminutive adjectives with the suffix \(-c^{\prime} A /-s^{\prime} A\)}

Although these suffixes are not productive, they are present in many words. The suffixes are ultimately related to the nominal Diminutive suffixes \(-s^{\prime} A-/-s A-\) (5.1.2.1). In fact, two variants ending in \(-c^{\prime} A\) and \(-s^{\prime} A\) can often be found for one word (see the examples below). All the adjectives derived with the suffixes in question are parametric and denote a low degree of a measurable feature (remarkably, adjectives that denote a high degree of the same feature do not have any derivational resemblance). Only for some are the base or related words known (284a), while for others they are not present in the modern language (284b).
\begin{tabular}{ll} 
a. & nepte-s'e/nekte-s'e \\
nemne-s'e/nemne-c'e \\
uma-c'a \\
da:-s'a \\
emu-s'e, omo-s'o
\end{tabular}
\begin{tabular}{ll} 
'low' nepte-ligi & 'flat' \\
'thin nemne-le & 'breadth' \\
(of round things)' & \\
'short' umac'a-la & 'length' \\
'near' da:-la & 'near' \\
'alone, omo & 'one' \\
lonely, single' &
\end{tabular}
\begin{tabular}{ll} 
b. enima-s'a, enima-c'a & 'light' \\
(y)i-c'a & 'small' \\
wa-c'a & 'few, not numerous' \\
lima-s'a & 'thin (of voice)' \\
lämuge-s'e & 'high (of voice)' \\
nemuge-s'e & 'thin (of flat things)' \\
xayu-s'e xayu-c'e & 'shallow'
\end{tabular}

The suffix \(-s^{\prime} a /-c\) ' \(a\) can be repeated twice within the word ( \(\eta\) ) i-c'a 'small' which strengthens its meaning: ( \(\eta\) ) i-c'a-c'a 'very small'. The adjectives derived with the suffix in question have an emphatic form in \(-i\) which produces the same effect: ( \(\eta\) ) \(i-c\) 'a-i ' very small' (see 6.1.2.4).

\subsection*{6.4.1.1.3. Qualificative adjectives with the suffix -ligi}

This is a regular but unproductive suffix of adjectives derived from the morphologically bound stems that denote colors (285a). Sometimes it also derives adjectives meaning other external features, for example, shape (285b).
\begin{tabular}{|c|c|c|c|c|}
\hline a. & xuta-ligi (of animal's eyes) & 'red' & xuta-la & 'reddish' \\
\hline & \(\tilde{n o ̈-l i g i ~}\) & 'blue, green' & ño-lo & 'dark-green' \\
\hline & c'a-ligi & 'white' & c'a-la & 'pale' \\
\hline & xo-ligi & 'yellow' & xo-lo & 'yellowish' \\
\hline & pa-ligi & 'black' & pa-la & 'black' \\
\hline & xumna-ligi & 'gray' & xumne-li & 'pale' \\
\hline & gä-ligi & 'blue' & gä-la & 'bluish' \\
\hline & zü-ligi & 'stripy' & \(z u ̈\) : & 'stripe' \\
\hline & kede-ligi & 'stripy' & kede- & 'stripe' \\
\hline b. & bombo-ligi & 'ball-shaped' & bombo & 'ball' \\
\hline & monto-ligi & 'round' & monto & 'a round' \\
\hline & nepte-ligi & 'flat' & nepte-li & 'flat' \\
\hline & kico-ligi & 'with sharp top' & kico & 'top' \\
\hline & sembe-ligi & 'sparse, flimsy' & sembe-li & 'sparse, with hollows' \\
\hline & kokči-ligi & 'curly' & kokčil & 'curly' \\
\hline & topto-ligi & 'spotty' & topto & 'spot' \\
\hline & ñä-ligi & 'raw' & ñä:- & 'rot' \\
\hline & seze-ligi & 'shaggy' & seze-ñoño & 'shaggy' \\
\hline & kä-ligi & 'pale' & käl-käl & 'pale' \\
\hline & logzo-ligi & 'stooping' & logzog'oi & 'crooked' \\
\hline & zopgo-ligi & 'concave' & cf.zongo-lo & 'slightly \\
\hline
\end{tabular}
gikpe-ligi 'glittering' kumpu-ligi \begin{tabular}{l} 
'bulging, \\
prominent'
\end{tabular}

\subsection*{6.4.1.1.4. Deintensifying suffix -lA}

The fairly productive suffix -lA derives adjectives from adjectives, and expresses the incompleteness of a feature ('a little (too) ...'). The adjectives of color derived with this suffix (286a) are related to adjectives derived with the suffix -ligi (6.4.1.1.3), and the bare (underived) stem never occurs independently.
\begin{tabular}{lll} 
a. & pa-la & 'blackish' \\
& xo-lo & 'yellowish' \\
& xula-la & 'reddish' \\
& duyma-la & 'pink' \\
b. & sagdi-le & 'a little big' \\
& gugda-la & 'a little high' \\
& umac'a-la & 'a little short' \\
& saza-la & ''a little foolish' \\
& zongo-lo & 'slightly concave'
\end{tabular}
\begin{tabular}{ll} 
pa-ligi & 'black' \\
xo-ligi & 'yellow' \\
xula-ligi & 'red' \\
dunma-ligi & 'blue' \\
sagdi & 'big' \\
gugda & 'high' \\
umac'a & 'short' \\
saza & 'foolish' \\
zongo & 'concave'
\end{tabular}

Examples:
a. Xeku umac'a-la-da. rope short-ADJ-FOC 'The rope is a little too short.'
b. Bi tege-i ic'a-la me gown-1SG small-ADJ 'My dress got a little too small.'
c. Ei banza umac'a-la-da. this board short-ADJ-FOC 'This board is a little too short.'

Two following adjectives derived with the suffix -lA demonstrate irregular semantics: sagdi-la 'very big' and manga-la 'very strong'.

\subsection*{6.4.1.1.5. Equative adjectives with the suffix -lAyki}

This very productive suffix is added to qualitative adjectives. It normally renders an equative meaning in comparison (corresponding to 'as ... as ...'), but it may also simply intensify the meaning of the adjective (corresponding to 'such a ...' or 'so...').
(288) \(\begin{array}{ll}\text { gugda-layki } & \text { 'as tall as ..., such a tall' } \\ \text { egdi-layki } & \text { 'as many as ..., so many } \\ \text { go:- lonki } & \text { 'as far as, so far (K 188) }\end{array}\)

The derivatives can be used both predicatively and attributively.
\(\begin{array}{llll}\text { a. } & \text { Ei } & \text { mo: xaisi gug } \\ \text { This } & \text { tree also high } \\ \text { mo:-digi. }\end{array}\)
\(\begin{array}{lllll}\text { b. } & \text { I:-le } & \text { gene-se- } i & \text { si } & \text { ei } \\ \text { what-LOC } & \text { find-EXP-2SG } & \text { you } & \text { this lapki } \\ \text { many-ADJ }\end{array}\) činda-wa?
find-EXP-2SG you this many-ADJ
birds-ACC
'Where have you found so many birds?'
\(\begin{array}{llll}\text { c. } & \text { Ei paki-lapli } \quad \text { a:nta-wa } & \text { neni-wene:-i } & \text { bebu. } \\ \text { this skillful-ADJ woman-ACC } & \text { go-CAUS.PAST-2SG } & \text { EV } \\ & \text { 'You have let this skillful woman go!' (SK 742) } & \end{array}\)

\subsection*{6.4.1.1.6. Intensifying adjectives with the suffix -wAlA}

The productive suffix -wAlA strengthens qualitative features. It does not co-occur with the intensifying adverbs lä(si), asi 'very' which may otherwise be present within the adjective phrase, and seems synonymous with them. Unlike the intensifying suffix -ndima (6.4.1.1.7) it is not restrictive and is not used in comparative constructions. Adjectives derived with the suffix -wAlA can co-occur with the superlative particle \(c\) 'o 'most' (290a) but this is by no means obligatory in this case.
a. Ei c'o nemnes'e-wele xeku.
this most thin-ADJ rope
'This is the thinnest rope.'
b. Bi emei-wele suese-we-i i:-le me sharp-ADJ axe-ACC-1SG what-LOC nede:-i?
put.PAST-1SG
'Where have you put my (very) sharp axe?'
c. Uligdig'a-wala tege-we teti-je! nice-ADJ gown-ACC dress-IMP.2SG
'Put on a very nice gown.'
d. Wanimi-wele xeku-we zawa-ja.
long-ADJ rope-ACC take-IMP.2SG
'Take a (very) long rope.'
e. sagdi-wala anda
big-ADJ musk.deer
'the most important musk-deer' (SKX 78)

\subsection*{6.4.1.1.7. Intensifying adjectives with the suffix -ndima}

The suffix -ndima (Northern -dima) does not have any harmonic variants (3.5.1.2). It marks a high degree of a feature or marks the absolute degree of comparison used without an overtly expressed standard of comparison. The suffix is productive; it attaches to any qualitative adjective (except compound adjectives), and is subject only to semantic constraints.
a. Ei ule: pei-ni sagdi-ndima. this meat piece-3SG big-ADJ 'This piece of meat is bigger (than the other).'
b. Biki bäsa-ni eqme-ndima Xu: bäsa-digi-ni.

Bikin river-3SG wide-ADJ Khor river-ABL-3SG
'The river Bikin is wider than the river Khor.'
c. Ei moxo muj'ei-ndima-wa zawa-ja.
this cup whole-ADJ-ACC take-IMP.2SG
'Take this whole (unbroken) cup.'
d. Bi tege-we ise:-mi bi
me gown-ACC see.PAST-1SG me
tege-digi:-de uligdig'a-ndima-wa.
gown.1SG-ABL-PART nice-ADJ-ACC
'I have seen a gown nicer than mine.'
e. Si sine-i ugei-ndima, bi sine-i enimac'a.
you sack heavy-ADJ me sack-1SG light
'Your sack is heavier, my sack is light.'
Although adjectives with the suffix -ndima can be used in the comparative adjective phrase (see (291b) and (291d) above), they are not obligatory in this function.

Nouns that have a parametric component in their meaning take the affix -ndima, which converts them to qualitative adjectives.
\(\begin{array}{llll}\text { (292) 'ai-ndima } & \begin{array}{l}\text { 'the elder (brother)' } \\ \text { nenu-ndima }\end{array} & \begin{array}{l}\text { 'the younger } \\ \text { (sibling)' }\end{array} & \begin{array}{l}\text { nenu }\end{array}\end{array} \begin{aligned} & \text { 'elder brother' } \\ & \text { 'younger sibling' }\end{aligned}\)
\begin{tabular}{llll} 
exi-ndima & 'the elder (sister)' & exi & 'elder sister' \\
wala-ndima & 'the luckier (hunter)' & wala & 'lucky hunter'
\end{tabular}

For example:
(293)
a. neŋu-ndima aziga
younger.sibling-ADJ girl
'the younger sister'
b. Min-digi 'ai-ndima bi:-ni.
me-ABL elder.brother-ADJ be-3SG
'My brother is older than I am.'

\subsection*{6.4.1.2. Denominal derivation}

\subsection*{6.4.1.2.1. Relative adjectives with the suffix -mA}

This is a common and very productive Tungus-Manchu suffix that derives denominal relative adjectives. It has a wide array of meanings.
(i) In most cases the derived adjectives denote material:
\begin{tabular}{|c|c|c|c|c|}
\hline (294) & mo:-mo & 'wooden' & mo: & 'wood' \\
\hline & sugbu-me & 'made of fish skin' & sugbu & 'fish skin' \\
\hline & wokto-mo & 'made of grass' & wokto & 'grass' \\
\hline & ipakta-ma & 'wool(en)' & inakta & 'wool' \\
\hline & тепти-me & 'silver' & тепти & 'silver' \\
\hline & aisi-me & 'gold(en)' & aisi & 'gold' \\
\hline & ña:-ma & \({ }^{\prime}\) leather(n)' & ña: & 'leather' \\
\hline & kirpiči-me & 'made of bricks' & kirpiči & 'brick' \\
\hline & seule-me & 'made of silk' & seule & 'silk' \\
\hline & tuza-ma & 'made of lead' & tuza & 'lead' \\
\hline
\end{tabular}

Although this pattern is very frequent, it is not universal, for example, not all the nouns denoting kinds of trees allow it, cf.
\begin{tabular}{llll} 
talu mo:-ni & 'birch' & talu-ma & 'made of birch bark' \\
aikta mo:-ni & 'fir-tree' & \begin{tabular}{l} 
aikta-ma
\end{tabular} & 'made of a fir-tree' \\
kuyka mo:-ni & 'cedar' & 'kuyka-ma & 'made of cedar'
\end{tabular}

The meaning 'made of cedar' is expressed periphrastically:
\(\begin{array}{lll}\text { Tenku-we } & \text { kuyka } & \text { mo:-zi-ni } \\ \text { stool-ACC } & \text { cedar } & \text { tree-INST-3SG }\end{array}\)
'The stool is made of cedar.'
(ii) Some adjectives derived from base nouns denoting things or animals express the belonging to a certain class:
g'ai-ma anda
kuliga-ma sita
joxoso-mo au
xojo-mo nä:
sul'ai-ma atiga:
mafa-ma mafa-ni
sama-ma tege
ñono-mo suala
teuze-me zugdi
'the crow-friend'
'snake-son'
'a cap made of a kettle, kettle-cap'
'bulltrout skin' (K 145)
'fox-wife' (Schneider 1937: 88)
'her bear-husband' (SK 547)
'shaman gown'
'ski made with glue'
'winter house' (SKX 88)
<winter.house-ADJ house>

Nouns denoting nationality also follow this pattern. Adjectives derived from them denote features more abstract than those denoted by the corresponding possessive construction, cf. examples (298a) and (298b).
a. udie-me tege lusa-ma anda udie-me anda
b. udie tege-ni lusa keje-ni udie anda-ni
'a gown in Udihe cut (fashion)'
'a Russian friend (by nationality)'
'a Udihe friend'
'a real Udihe gown, a gown of a Udihe'
'Russian language (language of the Russians)' 'a friend of a Udihe'
(iii) Since kinship terms do not distinguish the gender of certain (usually younger) relatives (neyu 'younger sibling', sita 'child; son or daughter'), this meaning is rendered by means of adjectives with the suffix -mA.
\begin{tabular}{ll} 
b'ata-ma & 'male (about a younger relative or a doll)' \\
aziga-ma & 'female (about a younger relative or a doll)' \\
a:nta-ma & 'female (about an adult relative)' \\
ninta-ma & 'male (about an adult relative)'
\end{tabular}

Cf. also:
(300) b'ata-ma sita 'son' <boy-ADJ child> guas'a-ma in'ei 'bitch' <bitch-ADJ dog>
(iv) On rare occasions the suffix -mA is used to strengthen a feature, but this usage is not productive:

\footnotetext{
aja-la-ma
gugda-ma
```

'the best' (K 204)
'very high, enormous'

```
}
(v) Adjectives derived with the suffix -mA may express the meaning 'resembling X , looking like X ', for example:
a. miki-me kuliga adder-ADJ snake 'a snake resembling an adder'
b. ñoligi-me jä: ñoli, euge-me nala bead-ADJ eye green pincers-ADJ arm käu-käu, käfakta-ma uña käf-käf, squeak-squeak vice-ADJ finger crackle-crackle silou-me begdi cenceli,ku:ge-me roasting.spit-ADJ leg long bellows-ADJ emugde pukceli. belly swollen
'The eyes are green like (green) beads, the arms squeak like pincers, the fingers crackle like a vice, the legs are long like roasting spits, the belly is swollen like (a pair of) bellows' (K 104)
c. mäna-ma zaka
flour-ADJ new.snow
'new snow like flour'
d. oñokto-mo sata
sand-ADJ sugar
'granulated sugar'
Cf. also c'a-ma 'white (of hair)' and c'a-ligi 'white'.
A base noun within an adjective derived with the suffix -mA may sometimes act as the head of its own phrase.
\begin{tabular}{lllll} 
a. & Bi uli-e-mi & ninka seule-me & tege-we. \\
me sew-PAST-1SG & Chinese silk-ADJ & gown-ACC
\end{tabular}

However, periphrastic constructions are typically preferred in this case, such as, for example, the relative clause.
\(\begin{array}{llll}\text { Bi gada:-mi } & \text { kusige-we } & \text { aja } & \text { gana-zi } \\ \text { me buy.PAST-1SG } & \text { knife-ACC } & \text { good } & \text { steel-INST }\end{array}\)
wo-so-wo.
make-PP.PAS-ACC
'I have bought a knife made of good steel.'

\subsection*{6.4.1.2.2. Proprietive adjectives with the suffix \(-x i\)}

The suffix -xi derives denominal adjectives, normally with a proprietive meaning. As discussed in 4.3.1, the same suffix derives the Proprietive forms of nouns, which also has some adjectival properties but demonstrates a lesser degree of adjectivization. As distinct from the Proprietive forms of nouns, in the proprietive adjectives the original meaning of possession is typically preserved only metaphorically, and the adjective simply denotes certain abstract features.
\begin{tabular}{|c|c|c|c|c|}
\hline (305) & meje-xi & 'clever' & meje & 'mind' \\
\hline & kui-xi & 'strong' & kui & 'strength' \\
\hline & \(x u-x i\) & 'rotten' & \(x u\) : & 'smell' \\
\hline & unugu-xi & 'ill' & unugu & 'illness' \\
\hline & amta-xi & 'tasty' & amta & 'taste' \\
\hline & zuge-xi & 'on business' & zuge & 'business' \\
\hline & eke-xi & 'idle' & eke & '(spare) time' \\
\hline & kesi-xi & 'lucky' & kesi & 'luck' \\
\hline & sama-xi & 'with holes' & saja & 'hole' \\
\hline & gebu-xi & 'honored' & gebu & 'honor' \\
\hline
\end{tabular}

As distinct from the Proprietive form of nouns, proprietive adjectives behave completely like other qualificative adjectives: they may be modified by degree adverbs (6.3.1), take the Plural suffix \(-\eta k u\), and participate in comparative and superlative constructions. Further, these two types of forms are negated in different ways: the Proprietive forms of nouns are negated by means of the Partitive negative construction (23.2.1.5.4); while the proprietive adjectives are negated with the negative verb \(e\) - and the Habitual copula bie (23.2.1.5.3).

The nominal Proprietive forms are here glossed as PROP, while proprietive adjectives are glossed as ADJ (derived adjectives), although the border between the two is obviously not always clear-cut.

\subsection*{6.1.4.2.3. Adjectives with the suffix -( \(\left.n^{\prime} A\right) u(s e)\)}

The suffix in question has several phonetic variants illustrated below. Its general meaning is 'rich in'; i.e. it expresses to a large extent the possession of an object expressed by the base word. In this function it is fairly productive.
a. \begin{tabular}{lll} 
zolo-n'ouse & 'stony' & zolo \\
kada-n'ause & 'rocky' & kane' \\
sua-n'ause & 'teeming with fleas' & sua 'rock' \\
kumuge-n'euse & 'teeming with lice' & kumuge 'louse' \\
koto-n'ouse & 'scabby, mangy' & koto
\end{tabular} 'bald'
\begin{tabular}{llll} 
& ikte-n'euse & 'with large teeth' & ikte 'tooth' \\
b. oñokto-use & 'sandy' & oñokto 'sand' \\
c. amba-n'au & 'hellish' & amba 'evil spirit' \\
& ogzo-n'ou & 'hellish' & ogzo \\
& ugbe-n'eu 'evil spirit'
\end{tabular}

Some words derived with the suffix in question denote a negative or unusual feature (for example, an unusual appearance), cf. the homonymous suffix employed in the deverbal derivation (6.4.1.4.1).
\begin{tabular}{clll} 
(307) \begin{tabular}{ll} 
jagdugu-n'euse & 'wearing spectacles' \\
guakta-n'ause & 'with a beard'
\end{tabular} \begin{tabular}{l} 
jagdugu \\
guakta
\end{tabular} & 'spectacles' \\
unugu-n'ause & 'sickly' & unugu & 'sickness' \\
lawa-n'ause & 'failing' & lawa & 'failure' \\
pöngo-n'ouse & 'with pits' & pöngo & 'pit' \\
ami-kt'a-use & 'sleepy headed' & amai & 'sleepy' \\
kakt'a-use & 'with a harelip' & kakta & 'a half'
\end{tabular}

Examples are:
(308) ogzo-n'ou ba:
we: kada-n'ausa-ni
wokto-n'ousa biga
kada-n'ausa we:
on'okt'o-usa bugasa
zolo-n'ousa bugasa
jata-n'ou ikte-ni
'a hellish place'
'rocky hill'
'grassy clearing'
'rocky hill'
'sandy island'
'stony island'
'baby tooth'
cf. jata-si- 'give birth'

\subsection*{6.4.1.3. De-adverbial derivation.}
6.4.1.3.1. Temporal adjectives with the suffix -fi/-pti

This suffix forms a closed class of adjectives from adverbs that mostly have a temporal (including a calendar) meaning.
\begin{tabular}{|c|c|c|c|c|}
\hline (309) & eine-fi & 'today's' & einepi & 'today' \\
\hline & timana-fi & 'tomorrow's' & timana & 'tomorrow' \\
\hline & tine-fi & 'yesterday's' & tine-nepi & 'yesterday' \\
\hline & neki-fi & 'spring's' & neki & 'spring' \\
\hline & ali-fi & 'from when' & ali & 'when' \\
\hline & zulie-fi & 'former' & zulie & 'in front' \\
\hline & tama-fi & 'last year's' & tamati & 'yesterday' \\
\hline
\end{tabular}
\begin{tabular}{llll}
\begin{tabular}{lll} 
bolo-i-fi \\
ana-fi
\end{tabular} & 'autumn's' & \begin{tabular}{l} 
bolo \\
anana
\end{tabular} & \begin{tabular}{l} 
'autumn' \\
'before, in \\
the past'
\end{tabular}
\end{tabular}

Three more adjectives derived according to this pattern have a non-temporal meaning.
\begin{tabular}{llll} 
ono-fi & 'what kind' & ono & 'how' \\
utebe-fi 'such' & utebe & 'so' \\
bu:-fi & 'resembling' & cf. bubu & EV
\end{tabular}

The variant of the suffix in question, -pti~-kti, is only attested for some words, where it freely alternates with \(-f i\) (311). It is characteristic of the Northern dialect (Sunik 1968: 219) and seems to have a Nanai or Ulcha origin (cf. the Ulcha suffix -pti and the Nanai -pči with the same meaning).
\[
\begin{array}{ll}
\text { ana-pti } \sim \text { ana-kti } \sim \text { ana-fi } & \text { 'former, ancient' }  \tag{311}\\
\text { tine-pti } \sim \text { tine-kti } \sim \text { tine- } f i & \text { 'yesterday's' }
\end{array}
\]

\subsection*{6.4.1.3.2. Locational adjectives with the suffix - \((u) x e\)}

This suffix derives a closed class of adjectives from adverbial stems with a spatial meaning.
\begin{tabular}{|c|c|c|c|}
\hline (312) \(a m \ddot{a}-u x e\) & 'the last' & amä & 'back' \\
\hline \(a\)-uxe & 'located here' & \(a-u x i\) & 'here (LAT)' \\
\hline xegie-uxe & 'low' & xegie-ni & 'bottom' \\
\hline do-uxe & 'inner' & do:-ni & 'inner side' \\
\hline ezie-uxe & 'downstream' & ezi-nu & 'downstream' \\
\hline no:-xo, & 'first, forward' & no:-i- & 'go forward' \\
\hline ño-uxe & & & \\
\hline ojo-uxe & 'located on the surface' & ojo-ni & 'surface' \\
\hline zule-uxe & 'first' & zulie-du & 'in front (DAT)' \\
\hline solo-uxe & 'upper (up the stream)' & solo-zo & 'upper side' \\
\hline uje-uxe & 'upper' & ије-ze & 'top, upper side' \\
\hline wei-xe & 'upper' (SKX 324) & we-ixi & 'on the surface (LAT)' \\
\hline bagä-uxe & 'located on the opposite side' & bagä & 'the opposite side' \\
\hline die-uxe & 'far from the river bank' & ie-ze & \begin{tabular}{l}
'place far \\
from the bank'
\end{tabular} \\
\hline
\end{tabular}

\subsection*{6.4.1.4. Deverbal derivation}

The deverbal adjective derivation is atypical and non-productive: there are only a few examples.

\subsection*{6.4.1.4.1. Adjectives with the suffix -(n'A)use}

The suffix in question forms denominal (6.4.1.2.3) and deverbal adjectives expressing personal qualities that are negative or deviate from the "norm". The derived adjectives usually have witty or condescending connotations. They are often substantivized. The suffix has several phonological variants: - \(n\) 'Ause, '-use, -use.
sono-n'ouse
sokto-n'ouse
sulä-n'ause
zomi-n'euse
cemne-n'euse
'whining'
'heavy drinking'
'cunning'
'being a thief'
'gossipy'
'forgetful'
'eating greedily'
oymo-n'ouse
xerme-n'euse
\[
\begin{align*}
& \text { sono- 'cry' }  \tag{313}\\
& \text { sokto- 'get drunk' } \\
& \text { sulä- 'dodge' } \\
& \text { zomi- 'steal' } \\
& \text { cemne- 'gossip' } \\
& \text { oymo- 'forget' } \\
& \text { xeyme- 'eat greedily' }
\end{align*}
\]

For the following words the corresponding suffix has the form (')-use with the laryngealization of the stem-final non-high vowel.
(314)

> gänd'a-use
> yel'e-use
> zomi-use
> mud'a-use
'lazy, idle'
'cowardly'
'being thief'
'separated (spouse)' muda- 'pass, finish'

Examples of noun phrases where the adjective is prenominal and postnominal are:
a. gänd'a-use in'ei 'a lazy dog' <lazy-ADJ dog>
b. in'ei gänd'a-use-ni 'a lazy dog' <dog lazy-ADJ-3SG>

\subsection*{6.4.1.4.2. Adjectives with the suffix -mA}

A frequent adjectival suffix -mA (6.4.1.2.1) seems able to derive certain adjectives from verbs.
\(\begin{array}{lll}\text { xuili-me } & \text { 'boiling' } & \text { xui- } \quad \text { 'boil' } \\ \text { zegdeli-me } & \text { 'burning' (K 180) } & \text { zegde- 'burn' }\end{array}\)
kuai-ma 'log (Adjective)' kua- 'cut, make a frame'

\subsection*{6.4.1.5. Rare adjectival suffixes}

In this section we list the suffixes of adjectival derivation that are only represented by a few examples:
-mu:i
sigdi-mu:i 'angry' (cf. sigdi b'a- 'to be angry'), kogo-mu:i 'thirsty', a-mu:i 'sleepy' (cf. the Desiderative verbal affix -mu:i- (8.2.3.1)), sata-mu:i 'sweet' (sata 'sugar'), s'ai-mu:i 'salty' (s'ai 'salt');
-gdig'a
uli-gdig'a, ala-gdig'a 'nice, beautiful' (cf. Nanai ule:n 'nice');
\(-k t A\)
sagdi-kte 'enormous' (sagdi 'big, old'), aja-kta 'very nice, the nicest' (aya 'good, nice'), eje-kte 'fast-flowing' (of the river)' (cf. eje- 'flow');
-(')Au, -u
sagd-'au 'old (of animals, trees)', for example: sagd-'au songo 'old bear' (sagdi 'big, old'), käba-u 'narrow (of a place)' (cf. käba-si- 'throttle, strangle'), bogis-'ou 'terrorized' (bogisi- 'terrorize');
-ytu
kakca- \(\eta t u\) 'orange, brown' (cf. kakca-mpa(ma) 'orange, brown');
\(-m p A(m A)\)
kakca-mpa(ma) 'orange, brown' (cf. kakca-ytu 'orange, brown');
-mi
wani-mi 'long' (cf. wani-la-ni 'length'), dä-mi 'thick' (cf. dä-la-ni 'thickness'); the adjectives formed with this suffix take the Plural marker - \(\eta k u\) with the change of the final vowel into /ä/ (see 6.1.2.1.1);
-xiktu
degbe-xiktu 'wet' (degbe- 'get wet'), sana-xiktu 'holey' (saja 'hole'); apparently the suffix -xiktu is a compound and consists of the adjectival affix \(-x i\) (6.4.1.2.2) and the marker of the Resultative Participles -ktu (7.5.1.4);
-i:/-i (-ihi in Schneider 1936 and Kormušin 1998)
sagdi ‘big' (cf. sagda-yi- 'get old’ ), xaךkani: 'stuffy' (cf. xayka- 'suffocate'), bubu-i 'similar' (cf.bubu 'like');
\(-t i\)
omo-ti 'same, similar' (cf. omo 'one'), amä:-ti 'last' (amä:- 'behind, back') (SK 101);
-mti
gugda-mti 'very high' (gugda 'high'); zulie-mti 'front, fore-' (cf. zulie-ni 'in front of' (cf. the homonymous suffix on nouns which may be the result of substantivation of adjectives in 5.1.3.1.5);
-ptigi
kumte-ptigi 'turned upside down' (cf. kumte- 'turn over'), be-ptigi 'similar' (cf. bede 'like');

\subsection*{6.4.2. Zero-derivation}

Typical cases of conversion (adjectivization) are participle-to-adjective conversion and noun-to-adjective conversion.

\subsection*{6.4.2.1. Participle-to-adjective conversion}

\subsection*{6.4.2.1.1. Resultative Participles}

Certain Resultative Participles derived with the suffix -ktu (7.5.1.4) are adjectivized. As distinct from the base participle, the resulting adjective can be modified by degree adverbials (for example, \(c\) 'o 'most', belem 'even more') and head a comparative adjective phrase. Adjectives derived through conversion are:


Examples:
\begin{tabular}{lll} 
a. & Bi sono-ktu sita-i & susa:-ni. \\
& me whine-RES son-1SG & escape.PAST-3SG \\
& 'My whining son ran away.'
\end{tabular}
b. Ei ni: kojo-ktu, gagda ni: this man thin-RES another man belem kojo-ktu. even thin-RES
'This man is thin, that other man is even thinner.'

\subsection*{6.4.2.1.2. Active participles}

Certain adjectives seem to result from the historical conversion of Present active participles in -i (7.5.1.1.1).
(319) \begin{tabular}{lll} 
xeku-i & 'hot' & cf. \(x e k u-s i-\) \\
ñama-i & 'warm' & cf. \\
nama-si- & 'warm oneself' \\
su:le-i & 'ill' & cf. su:le-
\end{tabular} 'be ill'

\subsection*{6.4.2.2. Noun-to-adjective conversion}

Adjectives with the suffix \(-(g d u) g u\) are the result of the adjectivization of nouns derived with the nominal suffixes -gdugu, -gdigA (5.1.2.10) and -(u)gu (5.1.2.8).
(320)
ñä-gdugu 'stinking'
nele-gdugu 'timid, fearful' nuktu-gu
'moist'
\begin{tabular}{ll} 
nä- & 'to rot' \\
yele- & 'to fear' \\
\(\tilde{n u k t u-}\) & 'get wet'
\end{tabular}

Besides, nouns derived from other nouns and verbs by means of the suffix - \(\eta k u\), \(-\eta k A(5.1 .1 .4)\) can also undergo adjectivization.
(321)

'greedy'
'clumsy'
'jolly'
'strange, sly'
'interesting, jolly'
'first'
'timid' (SK 674)
diga-
sule- 'be ill'
degde- 'rise'
egde- 'wonder' sebu- 'wonder'
ño-
nelie-
'eat'
'be ill'
'rise'
'wonder'
'be in front' 'be afraid'

\subsection*{6.4.2.3. Infinitive-to-adjective conversion}

At least one adjective is derived through conversion from the Desiderative Infinitive in -mugdi (7.5.6.2):
(i)ñe-mugdi 'funny' iñe- 'laugh'

The example below illustrates this adjective in the attributive function.
\begin{tabular}{llll} 
Imasi-je & min-du & imanku & ñemugdi-we-ni. \\
tell-IMP.2SG & me-DAT & tale & funny-ACC-3SG
\end{tabular}
'Tell me a funny tale.'

\subsection*{6.4.3. Compounding}

Compounds are transitional in character between a syntactic phrase and a lexical element. There are two major types of compound adjectives in Udihe: compounds with semantically light adjectives, and compounds with the copula.

\subsection*{6.4.3.1. Compounds with semantically light adjectives}

Compounds of this type are stable lexicalized expressions that consist of a noun (sometimes in a possessive form) and semantically light (quantifying) adjectives. The following adjectives participate in such a compound: manga 'strong, very much', zas'a 'light', egdi 'many'.
\[
\begin{align*}
& \text { zä:(-ni) manga }  \tag{324}\\
& \text { zä:(-ni) zas'a } \\
& \text { tama(-ni) zas'a } \\
& \text { kui(-ni) manga } \\
& \text { egderke manga } \\
& \text { mäwa(-ni) manga } \\
& \text { meje egdi } \\
& \text { meje(-ni) ge: } \\
& \text { meje(-ni) mejeku }
\end{align*}
\]
'expensive'
'cheap'
'cheap' tama 'price'
'strong' kui 'strength'
'cunning'
'angry' (K 260)
'clever, intelligent'
'angry' (SK 87)
'stubborn' (SK 252)
\(z a ̈: \quad\) 'money'
kui 'strength' egdenke 'cunning'
mäwa 'heart'
meje 'mind'

Within the compound the noun must precede the adjective, which behaves morphologically and syntactically like a regular simple adjective, cf.:
\(\begin{array}{llll}\text { a. } & \text { Ei tege } & \text { zä:-ni } & \text { manga-la-da. } \\ \text { this gown } & \text { money-3SG } & \begin{array}{l}\text { strong-ADJ-FOC }\end{array}\end{array}\)
'This gown is very expensive.'
b. Ei tege zas'a, ta-uxi tege zä:-ni this gown cheap that-LAT gown money-3SG manga bi-s'e. strong be-PERF
'This gown is cheap, that gown was expensive.'
c. Si kui ketu manga, bi sin-digi
you strength.2SG very strong me you-ABL kui egdi bi-mi.
strength much be-1SG
'You are very strong, (but) I am stronger than you.'
d. Nua-ni meje-ni egdi.
he-3SG mind-3SG much
'He is clever.'
In the following examples the adjective egdi precedes the noun.
\begin{tabular}{lllll} 
a. & seuni: & egdi & tama-ni & tege-ni \\
& scary & much & price-3SG & gown-3SG \\
& 'a very expensive gown' (SK 861) &
\end{tabular}
```

b. wac'a tama
little price
'cheap' (SK 861)

```

\subsection*{6.4.4.2. Copular compounds}

As mentioned above, copular compounds consist of a content element and the copula verb bi- 'be' (sometimes also ede- 'become') in the corresponding form. The content element may be: (i) certain simple adverbs (6.4.4.2.1); (ii) bound adjectives derived with certain suffixes (6.4.4.2.2); or (iii) ideophonic adverbs (6.4.4.2.3). The content element within the copular compounds is morphologically unchangeable. It does not take a Plural, case, or possessive marker, and cannot be separated from the copula by other words. However, some of them can undergo raising and be used without a copula after the head nominal (24.2.1.1.3).

\subsection*{6.4.4.2.1. Copular compounds with adverbs}

The following are compound adjectives that include a simple adverb as the first component:
\begin{tabular}{llll} 
(327) \begin{tabular}{lll} 
bei bi- & 'simple' & bei
\end{tabular} & 'in vain' \\
ono bi- & 'what kind' & ono & 'how' \\
täsi bi- & 'full' & täsi & 'very, much' \\
do: bi- & 'close (of relatives)' & do:- & 'inside' \\
tue bi- & 'winter (of a skin)' & tue & '(in) winter' \\
zua bi- & 'summer (of a skin)' & zua & '(in) summer'
\end{tabular}

Cf. also ute bi- 'such' (ute 'that') and dulayki-le bi- 'middle (among siblings)' (SK 66).

\subsection*{6.4.4.2.2. Copular compounds with derived adjectives}

Adjectives derived with the suffixes \(-l i\) and \(-\tilde{n} A \tilde{n} A(\tilde{n} A)\) are not used independently and occur only within copular compounds.
(i) The suffix -li (sometimes also \(-l^{\prime}\) ) is synonymous to -ligi (6.4.1.1.3), but is less frequent. It derives the following adjectives found within the copular compounds.
(328)
\begin{tabular}{ll} 
pa-li & 'black' \\
nepte-li & 'flat' \\
xuyne-li & 'pale'
\end{tabular}
\(\begin{array}{ll}\text { cf. pa-m } \\ \text { nepte } & \text { 'black' }\end{array}\) 'pale'
\begin{tabular}{llll} 
kokčil' & 'curly' & cf. kokči-ligi & 'curly' \\
sembe-li & 'with holes, sparse' & cf. sembedeu & 'with holes' \\
seze-li & 'shaggy' & cf. seze-m & 'shaggy' \\
ze:-li & 'middle (sized)' & cf. ze: & 'middle' \\
egdene-li & 'cunning' & egdene & 'interesting, \\
& & & strange'
\end{tabular}
(ii) The suffix \(-\tilde{n} A \tilde{n} A(\tilde{n} A)\) has the following variants: \(-\bar{n} \bar{e} \bar{e} e,-\bar{n} a n ̃ a\) (often pronounced as -ñäñä), -ñoño (often pronounced as -ñöñ̈), and -ñeñeñe (the most emphatic variant). The distribution of these variants basically depends on vowel harmony (3.3). However, the variant -ñono seems to have been generalized and can replace other variants conditioned by the harmony. This suffix is an example of partial reduplication, and is very expressive (like most reduplications). It describes a situation when certain external features of an object are present to a great degree. It can be added to practically all stems denoting colors (329b) and in this sense it is productive.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{8}{*}{a.} & kede-ñeñe & '(very) stripy' & kede-ligi & 'stripy' \\
\hline & bakči-ñoño & '(very) wrinkled' & bakc̆a-m & 'wrinkled' \\
\hline & logbo-ñoño & '(very) thick (of fur)' & logbo-logbo & 'shaggy' \\
\hline & seze-ñeñe & 'shaggy' & seze-m & 'shaggy' \\
\hline & kölo-ñoño & 'trodden' & kölo-kölo & 'very smooth' \\
\hline & igbe-ñeñe- & 'soft' & cf. igbe-ne- & 'soften a skin' \\
\hline & ทafu-ñeñe & 'dense, thick' & ทаfu- \(\quad\) afu & 'bearded' \\
\hline & čili-ñeñe & \multicolumn{3}{|l|}{'smooth, flat (of a road)' \({ }^{\text {a }}\) '} \\
\hline \multirow[t]{6}{*}{b.} & xo-ñoño & 'bright yellow' & xo-lo & 'yellowish' \\
\hline & c'a-ñoño & 'dazzling white' & ca-ligi & 'white' \\
\hline & xuta-ñoño & 'bright red' & xuta-ligi & 'red' \\
\hline & pa-ñoño & 'absolutely black' & pa-ligi & 'black' \\
\hline & duøma-ñaña & 'pink' & duyma-la & 'pink' \\
\hline & kökto-ñoño & 'raven-black' & & \\
\hline
\end{tabular}

The suffix \(-\tilde{n} A \tilde{n} A \tilde{n} A\) is an expressive variant of \(-\tilde{n} A \tilde{n} A\) with the reduplication of the last syllable. Some examples are:
\(\begin{array}{ll}\text { a. } & \begin{array}{l}\text { Odo dili-ni } \\ \text { grandfather head-3SG }\end{array}\end{array}\)
tala-ñAñAñA bie.
bald-ADJ be.PRES.HAB
'Grandfather's head is (completely) bald.' (SK 857)
b. Bua kiau-ñañaña.
place clear-ADJ
'The sky is very clear.' (SK 179)

\subsection*{6.4.3.2.3. Copular compounds with ideophonic adverbs}

On the derivation and semantics of ideophones see 10.1.3.2; a list is given in Chapter 26. Ideophones mostly function as verbal modifiers (10.1.3.2.3) and as predicates (17.2.2.6). In the attributive function they are very rare, although not impossible. Attributive ideophones either behave as a compound adjective, that is, are accompanied by the copula verb (331), or as a single adjective (332). In the latter case they do not undergo raising and do not take the Plural inflection.
a. jene-i, jene-i, jene-i, omo pöloi go-PRP go-PRP go-PRP one trodden bi: xokto-wo b'a-ni sikie. be.PRP road-ACC find.PAST-3SG evening '(She) went (by and by) and in the evening she found a trodden path.'
b. Logbo-logbo osi-gi-e-ni
bent-bent become-REP-PAST-3SG
mamaka-la iv-ki-ni.
old.woman-LOC enter-PAST-3SG
'He came to a very bent old woman.' (SKX 150)
C
big elder.brother-3PL \(\quad\) bih
\begin{tabular}{l} 
čindem \\
thin.waisted
\end{tabular}\(\quad\)\begin{tabular}{l} 
story-V-INC-PAST-3SG \\
mamaka
\end{tabular}
xuli-se:-me-ni.
walk-EXP.PP-ACC-3SG
'The oldest brother started telling that an old woman with a very
thin waist had come.' (SK 1012)
(332)
a. cif-čif tege
wet-wet gown
'a gown that is wet through'
b. Bi se:-mi we: kei-kei-we-ni.
me ee.PAST-1SG hill steep-steep-ACC-3SG
'I saw a very steep hill.'
c. bakčam anta
wrinkled.faced woman
'a woman with a wrinkled face'
d. Zuke zuke kei-kei
hardly hardly steep-steep mountain-LAT
tukti-e-mi.
climb-PAST-1SG
'I barely climbed the steep mountain.'
e. čik-čik bo:lo-n(i) di:nki-ni tiny-tiny bird-3SG size-3SG 'as large as a small bird'
f. wanter-watter
bugdi-ni
bow.legged-bow.legged leg-3SG 'his bow legs'
g. Kiai-kiai sigbo-lo tukti-e-ti. steep-steep cape climb-PAST-3PL
'They climbed a very steep cape.' (SKX 326)

\section*{Chapter 7 Verbal morphology}

This chapter deals with the inflectional and derivational categories of the verb. The inflectional verb forms are divided into finite and non-finite forms. The former may express independent predication, whereas the latter are only found in an embedded clause. Formally, both finite and non-finite forms may be either analytic or synthetic. The synthetic forms are derived by adding a suffix to one of the verbal stems. The analytic forms include a content verb and a copula element (normally the auxiliary verb bi- 'be'), and both of these are inflected in some way.

Udihe verbs oppose the Indicative and the five non-Indicative moods. Indicative forms express a further aspectual opposition of the General, Habitual, and Progressive aspects, for each of which several temporal categories exist. Inflectional forms are marked for subject agreement (15.1.1.2) and distinguish between two numbers (Singular and Plural) and three persons ( \(1^{\text {st }}, 2^{\text {nd }}\), and \(3^{\text {rd }}\) ). Exclusive and inclusive forms are distinguished for the \(1^{\text {st }}\) person Plural. Non-finite verbal forms comprise participles, converbs, and infinitives. The synthetic finite forms are built according to the following morphological pattern:
(333) stem - (derivational affixes, valence changing affixes) - tense/mood person/number

In some forms the plural affix precedes the tense/mood marker (7.2).
All inflectional verbal forms are negated by means of the negative auxiliary verb \(e\)-, which takes a particular inflectional form, and is followed by the content verb. The normal word order is for the copula 'be' in the analytic forms to follow the content verb; however, the negative auxiliary usually precedes it.

Sections 7.1-7.5 describe the formal aspects of verbal inflection: the types of verbal stem and inflections, and the formation of particular inflectional categories, both finite and non-finite. In section 7.6 we present paradigms illustrating verbal inflectional morphology. Sections 7.7-7.10 deal with the functions of the verbal inflectional categories.

\subsection*{7.1. Verbal stems}

Verbs belong to one of the two major morphonological groups, class I and class II. Class I verbs have a vowel-final root, whereas the root of class II verbs is consonant-final (normally ending in \(-n\) ). The majority of verbs belong to class I.

All verbal synthetic forms are derived from one of three stems: the Present stem, the Past stem, or the Perfect stem, the formation of which differs for class I and class II verbs. The Present stem is the bare form, and coincides with the verbal root. The other two stems have a morphologically more complex form, and were historically derived from the Present stem (the verbal root). The Past stem added the suffix *-sa- (> Udihe hA), the Perfect stem the suffix *-ka- (> Udihe 'A). In the modern language the derivational relations are not clearly apparent because verbs no longer form their Past and Perfect stems in such a uniform way. Thus it is more convenient to discuss the three stems separately. A list of synthetic verbal forms, together with the type of stem on which they are based, is given below:

Present stem
Present
Future
Permissive
Imperative
Conditional
Subjunctive
Present Participle
Future Participle
Passive Participles
Destinative Participle
Resultative Participle
most converbs
Infinitives
Derivational forms

The bare Present stem is also used as the form of the content verb that is combined with the negative auxiliary in the negative conjugation, although it may be augmented by derivational affixes (Chapter 8).

\subsection*{7.1.1. Present stem}

Examples of Present stems:
(335)

Class I verbs
etete- 'work'
olokto- 'cook'
zawa- 'take, grab'
umi- 'drink'
bu- 'give'
tukä:- 'run'
dogdi- 'hear'

Class II verbs
ujan-(a-) 'float, swim'
nelewen-(e-) 'frighten'
gun-(e-) 'say'
in-(e-) 'come'
gulin-(e-) 'leave'

\subsection*{7.1.1.1. Class I verbs}

The Present stem is identical to the verbal root, which is always vowel-final for class I verbs. Generally, all vowels are possible stem-finally, although stems ending in a long or laryngealized vowel are infrequent. Verbs whose stem ends in a \(u\)-final vowel cluster exhibit the usual alternation discussed in 3.2.3. The syllable-final \(/ u /\) that occurs before a consonant is realized as \(/ u /\), while syllable-initially, before a vowel, it appears as the consonant /w/: deu-mi 'I get tired' <get.tired-1SG>, but dew-u-i 'one gets tired' <get.tired-PAS-PRP>.

\subsection*{7.1.1.2. Class II verbs}

Class II verbs have a consonant-final root. The most common root-final consonant is \(/ \mathrm{n} /\). In most forms based on the Present stem the root-final consonant \(/ n /\) is obligatorily followed by an epenthetic vowel \(A(/ a /, / o l\), or \(/ e /\), depending on vowel harmony, see 3.3). Among the forms derived from the Present stem the following require an epenthetic vowel after the root-final consonant for class II verbs:
form
Present and Present Participle
Imperative
Conditional
Purposive Converb
Resultative Participle
Destinative Participle
Imperfective Converb
Perfective Converb
Infinitive
\begin{tabular}{ll} 
example & \\
dian- \(a-m i\) & 'I say' \\
dian- \(a-j e\) & 'say' \\
dian- \(a-m u s e-i\) & 'if I say' \\
dian-a-laga- \(i\) & 'so that I say' \\
dian- \(-k t u\) & 'said' \\
dian- \(a-k c ̌ i\) & 'meant for saying' \\
dian- \(a-\eta i e-i\) & 'when I was saying' \\
dian- \(a-i s i\) & 'after I said' \\
dian- \(a-m i\) & 'saying'
\end{tabular}

Desiderative Infinitive
Causative and most derivational forms bare verbal stem with the negative verb
dian-a-mugdi 'wanting to say'
dian-a-mugdi 'wanting to say'
dian- aswan- 'cause to say' dian- \(a\) -

However, the following forms of class II verbs are derived from the Present stem without the presence of an epenthetic vowel:
form
Future and Future Participle
Permissive
Subjunctive
\begin{tabular}{ll}
\begin{tabular}{l} 
example \\
dian-zaya-i
\end{tabular} & 'I will say' \\
dian-ta-mi & 'I will say perhaps' \\
dian -zoa- \(i\) & 'I might say'
\end{tabular}
example dian-zaya-i 'I will say' dian-ta-mi 'I will say perhaps' dian-za-i 'I might say'

As follows from (336) and (337), an epenthetic vowel is inserted to prevent impossible biconsonantal clusters (such as \(n j, n w, n m, n \eta\) ) or a cluster of three consonants (3.2.1). It is also present in the bare stem combined with the negative verb, since the Udine word cannot normally end in a consonant (3.1.1). The epenthetic vowel is absent if the cluster which appears as a result of the suffixation of the \(n\)-stem is allowed by phonotactic rules (such as \(n z\) and \(n t\) ).

It should be noted, however, that although the system described above is motivated from the phonotactic point of view and is reflected in Schneider's (1936) materials, some of our informants insisted on the epenthetized forms of the class II verbs in all cases. For such speakers, the epenthetic vowel \(A\) appears even if the potential consonant cluster is otherwise acceptable, so the Future, Permissive, and Subjunctive forms of the verb dian- are dian-a-zana-i, dian-a-ta-mi, and dian-a-za-i, respectively. This clearly reflects an analogous tendency in verbal inflection, when class II verbs tend to move into class I and the epenthetic vowel is reanalyzed as part of the stem. In such cases we will hereafter place the epenthetic vowel \(A\) in brackets.

\subsection*{7.1.1.3. Old class II verbs}

Schneider (1936) also cites a few class II verbs that end in a consonant other than \(/ n /\). According to his description, such verbs attach the thematic syllable \(-d A-/-t A\) - when deriving the Present stem (but not other stems). For example, nag-da- is the Present stem of the verb nag- 'get in, reach' (cf. the Past stem nak-ki-); bap-ta- is the Present stem of the verb bap- 'understand' (cf. the Past form bak-pi- < bap-ki-). In the modern language, however, these verbs belong to the morphonological class I, since the old thematic syllable \(-d A-/-t A\) - has undergone inclusion into the root and at present appears in all verbal forms, not
only those that are based on the Present stem. So in the modern language we deal with the vowel-final class I verbs nagda-, bapta-

\subsection*{7.1.2. Past stem}

\subsection*{7.1.2.1. Class I verbs}

For class I verbs the Past stem is derived from the Present stem by lengthening
 This sound change developed historically as a compensatory lengthening after the loss of the pharyngeal \(/ \mathrm{h} /(2.1 .2\) ). The pharyngeal was present within the Past marker of the class I verbs -hA- in the Northern dialect recorded by Schneider (1936) and Kormušin (1998). Thus, the Past stems attested by Schneider are, for example, the following: etete-he-for the verb etete- 'work', olokto-ho- for the verb olokto- 'cook', and zawa-ha- for the verb zawa- 'take'.

Exceptions are the root-final high vowels \(/ i /\) and \(/ u /\). The vowel \(/ i /\), in addition to lengthening, also shows a change in quality, and becomes a diphthongoid: \(/ i / \rightarrow / i e /\). The vowel \(/ u /\) does not lengthen, but the Past morph has the form -o:- after it: \(u+\) PAST \(\rightarrow u o\) :. The verbal Present stems ending in a long or laryngealized vowel or a vowel cluster do not change in the Past, that is, for such verbs the Present and Past stems are identical to each other.

Class I verbs
\begin{tabular}{ll} 
Present stem & Past stem \\
etete- & etete:- \\
olokto- & olokto:- \\
zawa- & zawa:- \\
umi- & umi-e- \\
dogdi- & dogdi-e- \\
bu- & bu-o:- \\
tukä:- & tukä:-
\end{tabular}

If the stem ends in a glide-final cluster, the glide is realized as a consonant in the onset position: deu- \(\rightarrow\) dew-o:- <get tired-PAST>.

\subsection*{7.1.2.2. Class II verbs}

Class II verbs form the Past stem with the element \(-k i\) added to the verbal \(n\)-final root, which causes assimilation of \(/ n /\) into the velar \(/ \eta /\) (see 2.2.3.4).
\begin{tabular}{ll} 
Present stem & Past stem \\
dian-(a) & dian-ki- \\
ujan-(a) & ujay-ki- \\
yelewen-(e) & jelewen-ki-
\end{tabular}

In the modern language, especially in the dialect of Bikin, free variation is also possible: Past forms of the class II verbs can be heard that are derived in the same way as the Past of the class I verbs, that is, with the lengthening of the epenthetic vowel \(-A\)-, for example:

Present stem
Past stem
in-e-ine:- ~ in-ki-
gun-e-gune:- ~ guj-ki-
dian-a-diana:-~ diar-ki-

In the Northern dialect the Past stem of class II verbs derived with \(-k i\) is more regular. In this dialect, the suffix -ki derives the Past stem even for some class I verbs, such as, for example, the class I verb bude- 'die', which has two Past stems in free variation: buk-ki- and bude:-- In the Bikin dialect only the regular forms such as bude:- are attested for the class I verbs. The Northern dialect has also preserved to a greater extent the peculiarities of the old class II verbs (7.1.1.3), so they can form the Past tense with the suffix \(-k i\)-, cf. the Northern nag-da:-ni and nak-ki-ni 'he reached' <reach-PAST-3SG>. The form nak-ki-ni is obsolete for the dialect of Bikin, although it is easily recognized by the speakers.

\subsection*{7.1.3. Perfect stem}

\subsection*{7.1.3.1. Class I verbs}

For most class I verbs the Perfect stem is formed from the Present stem through the laryngealization of the stem-final vowel: \(|a| \rightarrow \mid\) 'al, \(|o| \rightarrow|' o l,|e| \rightarrow| ' e \mid\), \(|a ̈ / \rightarrow| ' a ̈ /\). The final vowels \(/ i /\) and \(/ u /\) do not laryngealize; the suffix -ge- is instead attached after them:
\begin{tabular}{ll}
\multicolumn{2}{c}{ Class I verbs } \\
Present stem & Perfect stem \\
etete- & etet'e- \\
zawa- & zaw'a- \\
olokto- & olokt'o- \\
tukä- & tuk'ä- \\
umi- & umi-ge-
\end{tabular}
\begin{tabular}{ll} 
dogdi- & dogdi-ge- \\
bu- & bu-ge-
\end{tabular}

\subsection*{7.1.3.2. Class II verbs}

For the class II verbs the Perfect stem is formed by adding -kA- to the \(\boldsymbol{n}\)-final root, which causes the assimilation of \(/ n /\) into \(/ m /\) :

Class II verbs
Present stem Perfect stem
dian- diaj-ka-
ujan- ujan-ka-
nele-wen- yele-wen-ke-

\subsection*{7.1.4. Irregular verbs (auxiliaries)}

Two verbs exhibit irregular stem formation: the copula bi- 'be' and the negative auxiliary \(e(i)\).. The Perfect and Past stem for these verbs are formed with an element \(s\) that goes back to the old *-s- (the etymological source of the pharyngeal \(/ \mathrm{h} /\) found within the old Past stem marker, see 7.1.2). The stem types of the irregular verbs are shown below:
\begin{tabular}{lll} 
& 'be' & negative auxiliary \\
Present stem & \(b i-\) & \(e-, e i-\) \\
Past stem & \(b i-s i-\) & \(e-s i-\) \\
Perfect stem & \(b i-s^{\prime} e-\) & \(e-s ' e-\)
\end{tabular}

For the negative verb the Present stem has two variations, ei- and \(e\)-. The stem ei- is used in some personal forms of the Present tense, and in the Infinitive. The element \(-i\) - here goes back to the regular Present tense marker also found in the \(3^{\text {rd }}\) person Present tense verbal inflection (7.2) and Present active participles (7.6.1.1.1). The stem \(e\) - is used for other forms that are based on the Present stem, and also for some Present tense personal forms (namely the \(2^{\text {nd }}\) Plural, the \(3^{\text {rd }}\) person, and the \(1^{\text {st }}\) Plural Exclusive).

Both auxiliary verbs also exhibit, in several other categories, stem patterns that are irregular. The verb bi- has the irregular Present Habitual bie (7.3.2.3). The form bie also functions as the stem that co-occurs with the negative auxiliary. The negative verb exhibits the irregular stem ata- in the Permissive and Subjunctive and the irregular Imperative (7.5.1). The irregular forms will be cited below when discussing the formation of inflectional categories.

It should be noticed that in the past the copula bi-could have a second stem be-. This can still be seen in the obsolete form be-s'e (Perfect) (SK 1091) and may be historically related to the postposition bede 'like'.

The negative copula anči is employed in negative constructions, mostly for existential negation (see Chapter 23) and is a component of several verbal compounds (8.3.3). It has the following temporal forms: anči for Present, anči bi-s'e or anči bi-si-ni for Past, anči bi-zene-ni for Future, anči bi-ze for Subjunctive. In some contexts (23.2.2.2.3) it can take personal affixes; otherwise it does not express subject agreement. On its case forms see 4.3.2 and 23.2.2.2.3.

\subsection*{7.1.5. Functions of the bare verbal stems}

The Present tense stem remains uninflected, first, when it follows the negative auxiliary verb (7.3), and second, in the continuative negative construction, when it co-occurs with the copula ede- 'become' (23.2.1.4). The bare Past stem coincides with the uninflected form of the Past active participle (7.6.1.1.2). The bare Perfect stem occurs in the periphrastic construction of alternating action (7.11.1). It also remains uninflected in the \(3^{\text {rd }}\) person Singular and Plural Perfect. Otherwise, all three verbal stems are always followed by at least one inflectional morpheme.

\subsection*{7.2. Personal inflections}

\subsection*{7.2.1. Types of personal inflections}

Depending on tense/mood categories, a verb can take six distinct series of subject agreement affixes. The following table presents personal affixes of each of the six paradigmatic types.
(344) \begin{tabular}{lllllll} 
1SG & I & II & III & IV & V & VI \\
2SG & \(-m i\) & \(-m i\) & \(-i\) & \(-i\) & \(-m i\) & - \\
3SG & \(-i\) & \(-i\) & \(-i\) & \(-i\) & \(-i\) & \(-j A,-i\) \\
1PL IN & \(-i n i,-i l i\) & \(\varnothing\) & \(\varnothing\) & \(-n i\) & \(-n i\) & - \\
1PL EX & \(-f i\) & \(-u\) & \(-i\) & \(-t i\) & \(-f i\) & \(-f i\) \\
2PL & \(-u\) & \(-u\) & \(-u\) & \(-u\) & \(-m u\) & - \\
3PL & \(-i t i\) & \(-u\) & \(-u\) & \(-u\) & \(-u\) & \(-j A u\) \\
& & \(-d u\) & \(-d u\) & \(-t i\) & \(-t i\) & -
\end{tabular}

As (344) demonstrates, inflections of type VI exist only for the \(2^{\text {nd }}\) Singular and Plural, and differ significantly from the other types. They are used only in the Imperative. The \(2^{\text {nd }}\) Singular and \(2^{\text {nd }}\) Plural inflections are the same for types I
through V, while other inflections vary according to the type. The type IV inflections are completely identical to the personal possessive affixes (4.1.4).

The \(3^{\text {rd }}\) person affixes -ini and -ili are free phonetic variations (cf. 2.2.4.3). Type I \(3^{\text {rd }}\) person Singular and Plural personal inflections begin with the vowel li/. Historically, the vowel li/ did not belong to the personal inflection and it does not show up with the same inflections -ni (3SG) and -ti (3PL) in type IV. It goes back to the Present Participle affix: \(-i\) is a regular marker of Present active participles (7.6.1.1.1). This indicates that the \(3^{\text {rd }}\) person Present forms originated as participles, although for the modern language we analyze the vowel /i/ as a part of the inflection. Note that the \(3^{\text {rd }}\) person Present tense forms are therefore formally indistinguishable from the Present active participles with the personal inflections of the \(3^{\text {rd }}\) Singular and Plural: wakca-ini 'he hunts' <hunt-3SG> and wakca-i-ni 'hunting' <hunt-PRP-3SG>, etc. However, for the Present active participle the suffix -i- is found in all persons and numbers and not only for the \(3^{\text {rd }}\) person (see 7.5.1.1.1) as for the Present tense finite forms. Thus, the whole Present tense paradigm cannot be completely associated with the participles, and only the \(3^{\text {rd }}\) person forms clearly have a participial origin.

\subsection*{7.2.2. Distribution of personal inflections}

Each of the personal inflection types appears in a number of particular inflectional categories. This dependency is shown below.
\begin{tabular}{ll} 
Type I & Present \\
Type II & Permissive, Subjunctive \\
Type III & Perfect, Conditional \\
Type IV & Future, Converbs, Present Participle, Future, Participle \\
Type V & Past, Past Participle \\
Type VI & Imperative
\end{tabular}

In a verbal form the tense/mood suffix or the marker of a certain non-finite form normally follows the stem immediately. Personal inflections usually occupy the rightmost position in the word, that is, they follow these affixes. The only exception is the \(3^{\text {rd }}\) person inflection \(-d u\) - in the II and the III paradigmatic types which immediately follows the verbal stem and therefore precedes the tense/mood marker, or the marker of the non-finite form, for example, etete-du-ze 'let them work' <work-PL-SUBJ>. Moreover, for class I verbs ending in \(-i\) or \(-u\) whose Perfect stem is derived by the element \(-g e\)-, the \(3^{\text {rd }}\) Plural inflection \(-d u\) - precedes this element -ge-. For example: umi-du-ge 'they have drunk' <drink-PL-PERF>.

Sometimes the \(3^{\text {rd }}\) person Singular inflection is absent in the Future: bi-zene 'he will be' <be-FUT> (SK 1107), e-zene b'a-gi 'will not find again' <NEGFUT find-REP>.

\subsection*{7.3. Negative conjugation}

The negative conjugation is periphrastic and can be formed in two alternative ways. First, most verbal categories are negated with the negative auxiliary verb \(e(i)\) - (7.1.4) in the corresponding temporal/aspectual/modal form followed by a bare Present stem of the matrix verb (see also 23.2). The negative verb \(e\) appears in a morphological form that reflects the role of the predicate in the sentence. Secondly, for other categories the negative construction has three components: the negative verb in a certain form + the bare verbal stem + the copula verb 'be' in a corresponding tense. These two types do not duplicate the opposition synthetic/analytic.

The content verb appears as a bare stem or as a stem augmented by derivational affixes. It may also take the suffixes \(-d u\) - in the Plural or the bound Plural word getu, although, like all other Plural markers, they are not obligatory. The stems of the negative verb are presented in (7.1.4) and its conjugation is exemplified in 7.3.

The examples below illustrate the different forms of the content verb in negative sentences: class I verbs (346), class II verbs for which the \(n\)-final stem appears in the epenthesized form (347), and stems augmented by the Plural affix \(-d u\) (348).
\begin{tabular}{lll} 
a. & Bi ei-mi & sa: \\
me NEG-1SG & know \\
& 'I don't know.' &
\end{tabular}
\begin{tabular}{lll} 
b. & Ine'i & \(e\)-ini \\
dog & NEG-3SG & nene. \\
& go \\
& 'The dog is not walking.' &
\end{tabular}
(347) Sin-tigi e-zene-i dian-a.
you-LAT NEG-FUT-1SG say-0
'I won't tell you.'
\(\begin{array}{llll}\text { Nua-ti } & \text { emne-de } & \text { namun-tigi } & e \text { es'e } \\ \text { he-3PL } & \text { once-FOC } & \text { sea-LAT } & \text { NEG-PERF }\end{array}\)
'They have not traveled to the sea even once.'

\subsection*{7.4. Formation of the Indicative tense/aspect forms}

The non-Indicative verbal forms are described in section 7.5; this section deals with Indicative categories. The Indicative distinguishes three types of aspectual forms: the General aspect, the Progressive aspect, and the Habitual aspect. In each aspect several tense categories are possible. The resultative aspect is not completely grammaticalized, and therefore is not addressed here. It is rendered
by means of a special copular construction (17.2.2.5). On derivational affixes with various aspectual meanings, see 8.2.2.

\subsection*{7.4.1. General aspect}

General aspect indicative forms are synthetic, except for the analytic pluperfect.

\subsection*{7.4.1.1. Present}

The Present tense does not have a special marker. It is formed by attaching type I personal inflections to the Present stem. For class II verbs an epenthetic vowel is inserted between the stem and the personal inflections.
\begin{tabular}{lll} 
wakca-mi & 'I hunt' & <hunt-1SG> \\
wakca-u & 'you hunt' & <hunt-2PL> \\
wakca-ini & 'he hunts' & <hunt-3SG> \\
dian-a-mi & 'I say' & <say-0-1SG> \\
dian-a-u & 'you say' & <say-0-2PL>
\end{tabular}

If the stem ends in \(/ i /\) or an \(i\)-final cluster, the \(3^{\text {rd }}\) person inflections lose their vowel /il: ekei- 'stop' \(\rightarrow\) ekei-ni (<ekei-ini) 'he stops' <stop-3SG>.

The Present tense forms are negated by the negative verb in the Present followed by the bare Present stem of the content verb: ei-mi wakca, dian-a 'I don't hunt, say' <NEG-1SG hunt, say-0>, e-u wakca, dian-a 'you (PL) don't hunt, say' <NEG-2PL hunt, say-0>, etc. Examples of the copular verb 'be' in the Present tense are bi-mi 'I am' <be-1SG> and bi:-ni 'he is' <he-3SG>; see 7.6 for the whole paradigm.

\subsection*{7.4.1.2. Past}

Likewise, the Past tense is not indicated by a special suffix. It is formed from the Past stem by attaching type I personal inflections.
\begin{tabular}{lll} 
wakca:-i & 'you hunted' & <hunt.PAST-2SG> \\
wakca:-fi & 'we hunted' & <hunt.PAST-1PL.IN> \\
diar-ki: & 'you said' & <say.PAST-2SG> \\
dian-ki-fi & 'we said' & <say.PAST-1PL.IN>
\end{tabular}

Class II verbs may also have alternative forms appearing as a result of analogy with class I verbs: diana:-ni 'he said' <say.PAST-3SG> ( \(-a\) - is an epenthetic
vowel that was reinterpreted as part of the stem and lengthened in the Past, like the stem-final vowels of the class I verbs).

In the negative conjugation a negative verb in the Past is followed by the bare Present tense stem of the content verb: e-si-mi wakca, dian-a <NEG-PAST-1SG hunt, say> 'I didn't hunt, say', e-si-u wakca, dian-a <NEG-PAST-2PL hunt, say> 'you didn't hunt, say', etc.

\subsection*{7.4.1.3. Perfect}

The Perfect forms are based on the Perfect stem, which in this case is followed by type III inflections (351a). The \(3^{\text {rd }}\) person Plural follows a different pattern: for \(i\) - and \(u\)-final verbs the inflection \(-d u\) precedes the marker of the Perfect stem -ge (351b). For the other class I verbs the personal inflection \(-d u\) follows the Present stem (that is, the root-final vowel is not laryngealized as in the Perfect stem (351c). For the class II verbs the inflection -du follows the root and the epenthetic vowel \(-A\) - and precedes the marker of the perfect stem, which is -ge in this case (351d).
\begin{tabular}{llll} 
a. & etet'e-i & 'I have worked' & <work.PERF-1SG> \\
& diag-ka-i & 'I have said' & <say-PERF-1SG> \\
b. umi-du-ge & 'they have drunk' & <drink-PL-PERF> \\
& bu-du-ge & 'they have given' & <give-PL-PERF> \\
c. jexe-du & 'they have sung' & <sing-PL> \\
wakca-du & 'they have hunted' & <hunt-PL> \\
d. dian-a-du-ge & 'they have said' & <say-0-PL-PERF> \\
& i:n-e-du-ge & 'they have entered' & <enter-0-PL-PERF>
\end{tabular}

The negative forms are derived with the Perfect of the negative verb and the bare present stem of the content verb: e-s'e etete, dian-a 'he has not worked, said' <NEG-PERF work, say-0>. The Perfect of the copula 'be' is formed from the stem bi-s'e, cf. \(b i-\)-s'e-du 'they have been' <be-PERF-PL>.

\subsection*{7.4.1.4. Future}

Future forms are derived from the Present stem with the future suffix \(-z A \eta A-\) followed by IV type inflections. Class II verbs have an optional epenthetic vowel after the stem in the Future. Examples: jua-zene-fi <sleep-FUT-1PL.IN>, dian-(a)-zana-fi <say-0-FUT-1PL.IN> 'we (IN) will sleep, say'. The negative forms include the Future of the negative verb and the bare present stem of the content verb: e-zene-fi pua 'we (IN) won't sleep' <NEG-FUT-1PL.IN sleep>.

\subsection*{7.4.1.5. Pluperfect}

The Pluperfect is the only analytic tense in the General aspect Indicative. It is formed with the Past Participle of the content verb followed by the copula bi(on the formation of the personal and impersonal Past Participles see 7.5.1.1.2). The Pluperfect may be formed in three different formal ways, which are in free variation and do not exhibit any apparent difference in meaning:
(i) impersonal Past Participle + copula in the Past
umi-e bi-si-mi 'I had drunk' <drink-PP be-PAST-1SG>
dian-ka bi-si-ni 'he had said' <say-PP be-PAST-3SG> camna: bi-si-mi 'I had broken' <break.PP be-PAST-1SG>
(ii) impersonal Past Participle + copula in the Perfect \(\begin{array}{lll}\text { umi-e } \text { bi-s'e-i } & \text { 'I had drunk' } & \text { <drink-PP be-PERF-1SG> } \\ \text { diay-ka } \text { bi-s'e } & \text { 'he had said' }\end{array}\)
(iii) personal Past Participle + copula in the \(3^{\text {rd }}\) person Perfect
(354) kogko:-i bi-s'e 'I had broken' <break.PP-1SG be-PERF> koyko:-ni bi-s'e 'he had broken' <break.PP-3SG be-PERF> koyko:-ti bi-s'e 'they had broken'<break.PP-3PL be-PERF>

Thus, personal inflections attach either to the copula (in the Past or Perfect) or to the content verb (Past Participle). The \(3^{\text {rd }}\) person (uninflected) Perfect copula that remains unchanged for the whole paradigm is also attested for other analytic forms (see 7.3.2 and 7.3.3).

In the negative conjugation, the negative verb is in the Past or Perfect, and the content verb has the form of the Past Participle: e-si-mi konko: 'I hadn't broken' <NEG-PAST-1SG break.PP>, e-s'e-i diay-ka 'you (SG) hadn't said' <NEG-PERF-2SG say-PP>, e-s'e-i ise: 'I hadn't seen' <NEG-PERF-1SG see.PP>, etc. The copula 'be', therefore, is replaced by the negative auxiliary.

\subsection*{7.4.2. Habitual aspect}

Habitual forms are analytic. They follow this general schema: impersonal Present Participle + copula bi- in the corresponding tense. The Present Participle is derived from the Present stem with the suffix \(-i\)-, for example, wakca-i 'hunting' <hunt-PRP>, dian-a-i 'saying' <say-0-PRP> (for more details see 7.6.1.1.1). The participle does not take personal inflections in the Habitual, and only in the \(3^{\text {rd }}\) person Plural can the Plurality marker \(-d u\) be added instead of the participial suffix -i: wakca-du 'hunting (PL)' <hunt-PL>,
dian-a-du 'saying (PL)' <say-0-PL>. However, in functions other than the Habitual -i- is obligatory for Present Participles in all inflectional forms, including the \(3^{\text {rd }}\) person Plural (see 7.5.1.1.1). In the Habitual the \(3^{\text {rd }}\) person Plural getu is sometimes used instead of the more regular \(-d u\).

\section*{(355) Egdi ni: wan-a-mi ei ñoni getu (or: ñoni-du). many man swim-0-INF NEG can PL (or: can-PL) 'Many people cannot swim.'}

\subsection*{7.4.2.1. Present Habitual}

In the Present Habitual the copula verb \(b i\) - is either overtly present, or it is not. Typically, in the Present the copula bi- is omitted, thus Habitual Present forms are identical for all persons and numbers except for the \(3^{\text {rd }}\) person Plural: \(b i\) wakca- \(i\) 'I usually hunt' <me hunt-PRP>, nua-ni wakca-i 'he usually hunts' <he-3SG hunt-PRP>, nua-ti wakca-du 'they usually hunt' <he-3PL hunt-PL>. Less frequently (and especially in the Northern dialect) the Present Habitual in the Singular is expressed by a bare Present stem rather than the Present Participle.
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{4}{*}{a.} & Su: käu-käu & calugo-won-o & ima:-wa-da \\
\hline & sun all-all & melt-CAUS-0 & snow-ACC \\
\hline & alugo-won-o & okto-do & bagdi-w \\
\hline & melt-CAUS-0 & grass-FOC & grow-CAUS-0 \\
\hline
\end{tabular}
'The sun melts everything, it melts the snow, and it makes the grass grow.' (K 124)
b. Su:-de su:-ne.
sun-FOC shine-V
'The sun is shining.' ( K 122)
However, it is difficult to decide on the basis of the existing recordings of the Northern dialect whether such forms do indeed represent the bare verbal stem, or are just an erroneous recording of the regular Present Habitual ending in -i. After a vowel, the word-final \(i\) is very much reduced (like \({ }^{i}\) ), and can easily be missed.

Occasionally the Present Habitual forms may include the impersonal Habitual copula bie (see 7.4.2.3). In this case, the Present Habitual becomes analytic in the same way as other tenses in the Habitual aspect. Such forms are completely interchangeable with the non-analytic Present Habituals, for example, nua-ni wakca-i <he-3SG hunt-PRPR> and nua-ni wakca-i bie <he-3SG hunt-PRP be.PRES.HAB> are synonymous, and both mean 'he usually hunts'. The content verb may occasionally take personal suffixes in this case:
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(357)
Sul'ai dian-a-ini
fox speak-0-PRP-3SG
bie uti.
'This is the fox speaking.' (K 158)

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\subsection*{7.4.2.2. Past and Future Habitual}

In the Past and Future the copula is not omitted (except for the negative forms, see below), and it takes personal agreement affixes. In the Past tense it can have the Past form, for example: wakca-i bi-si-mi 'I used to hunt' <hunt-PRP be-PAST-1SG>, wakca-du bi-si-ti 'they used to hunt' <hunt-PL be-PAST-3PL>. More often, however, it has the Perfect form: wakca-i bi-s'e-i 'I used to hunt' <hunt-PRP be-PERF-1SG>. The \(3^{\text {rd }}\) person Plural affix is attached to the content verb and not to the copula: wakca-du bi-s'e 'they used to hunt' <hunt-PL be-PERF>. Another example:
\begin{tabular}{llll} 
Anana & udie songo & sita-wa-ni & igisi-du \\
long.ago & Udihe & bear & son-ACC-3SG \\
keep-PL be-PERF
\end{tabular}

A few marginal examples were also found in which both the participle and the copula take personal inflections.
\begin{tabular}{lllll} 
Ag'a & zugdi: & wo-isi-ni & bu & belesi-u \\
brother & house.REF & make-PC-3SG & we & help-1PL.EX
\end{tabular}
bi-s'e-u.
be-PERF-1PL.EX
'When my brother built a house, we helped him.'
In the Future the copula has the usual Future form (see 7.4.1.4), for example: wakca-i bi-zene-i 'I will usually hunt' <hunt-PRP be-FUT-1SG>, wakca-du bi-zene-ti 'they will usually hunt' <hunt-PL be-FUT-3PL>.

\subsection*{7.3.2.3. Irregular verbs}

The copula verb bi- 'be' has special Habitual non-analytic impersonal forms in the Present and the Past. In the Present it has a special impersonal form bie 'there is/there are', which does not take agreement affixes. This form functions as an independent verb in some copular constructions (Chapter 17). It is also found within analytic verbal forms, where it substitutes for the regular (non-Habitual) Present tense of the verb 'be', for example, in the analytic Present Progressive (7.4.3), or Present Habitual (7.4.2.1). The Past Habitual of the verb 'be' is the impersonal form bi-s'e or bie bi-s'e 'used to be', while the

Future Habitual has regular forms inflected for person and number such as bie bi-zene-ni 'he will usually be' <be.PRP be-FUT-3SG>, etc. The form bi-s'e is in fact the bare Perfect stem of the verb 'be' (8.1.4), but it seems that for the Habitual copula the Past and the Perfect are neutralized: the form (bie) bi-s'e simply expresses past tense reference in the Habitual aspect.

In the negative conjugation in the Present tense the Negative stem ei (which in fact coincides with the Present Participle of the negative verb) is followed by the bare stem of the content verb: ei eme 'he does not usually come' <NEG come>, ei jene-du 'they do not usually go' <NEG go-PL>. In the Past and Future the negative verb \(e i\) is followed by the verbal stem and the Past (or Perfect) and the Future form, correspondingly, of the verb 'be': ei wakca bi-si-mi 'I did not usually hunt' <NEG hunt be-PAST-1SG>, ei wakca bi-zene-i 'I will not usually hunt' <NEG hunt be-FUT-1SG>. An example of the negative Past Habitual follows:


\subsection*{7.4.3. Progressive aspect}

Progressive forms are also analytic. They include the Infinitive of the content verb that has the suffix -mi (see 7.6.3.1), and the copula \(b i\) - inflected for the corresponding tense (Present, Past, or Future) and agreement.

\subsection*{7.4.3.1. Present Progressive}

In the Present the copula is usually omitted, although this is not necessarily so: wakca-mi (bi:-ni) 'he is hunting' <hunt-INF be-3SG>, wakca-mi (bi:-ti) 'they are hunting' <hunt-NF be-3PL>, etc. The copula is most likely to be omitted (and in fact must be omitted) when the final vowel of the infinitive form \(-i\) is pronounced with the "emphatic" lengthening \(-i \rightarrow-i e\) (2.1.5.1). Such lengthening occurs only in the Present tense progressive forms and usually encodes a particular emphasis on the verb. The verb itself is often repeated twice in this case to express the continuation of the action. Cf. (361) where (361a) is the traditional refrain of the Udihe tales.
(361) a. bi-mie bi-mie 'he/she (they) was (were) living, living' <be-INF be-INF>
b. nua-ni wakca-mie wakca-mie 'he is hunting, hunting' <he-3SG hunt-INF hunt-INF>

The impersonal Habitual copula bie (7.4.2.3) may be used instead of the regular Present tense copula (bi:-ni etc.). Such a copula cannot be omitted: zegde-mi bie 'it is burning' <burn-INF be.PRES.HAB> is synonymous to zegde-mi (bi:-ni) <burn-INF be-3SG>.

\subsection*{7.4.3.2. Past and Future Progressive}

In the Past the copula has either the Past form or the Perfect form, and these are used interchangeably and are never omitted. For example: umi-mi bi-si-ni <drink-3SG> or umi-mi bi-s'e <drink-INF be-PERF> 'he was drinking'. In the Future the copula takes the Future form and is not omitted: umi-mi bi-zene-ni 'he will be drinking' <drink-INF be-FUT-3SG>.

\subsection*{7.4.3.3. Negative forms}

Progressive forms are negated by the Infinitive of the negative verb followed by the verbal stem and the corresponding temporal form of the copula 'be', which is null in the Present tense, for example: bi ei-mi umi 'I am not drinking', ei-mi umi bi-si-mi 'I was not drinking' <NEG-1SG drink be-PAST-1SG>, ei-mi umi bi-zene-i 'I will not be drinking' <NEG-1SG drink be-FUT-1SG>.

\subsection*{7.5. Non-Indicative moods}

Non-Indicative moods comprise the Imperative, Necessitative, Conditional, Subjunctive, and Permissive. Note that given the partial intersection of their functions, all the terms used for the oblique moods are highly conventional. Oblique moods do not exhibit aspectual and temporal oppositions.

\subsection*{7.5.1. Imperative}

The Imperative exists only for the \(2^{\text {nd }}\) person Singular and Plural. These forms are derived from the Present tense stem by adding type VI inflections, which are characteristic only of the Imperative. Examples: diga-ja 'eat' <eat-IMP.2SG>, diga-ja-u 'eat (PL)' <eat-IMP-2PL>, dian-a-ja 'say' <eat-0-IMP.2SG>, dian-a-ja-u 'say (PL)' <say-0-IMP-2PL>. For the \(2^{\text {nd }}\) Singular it is also possible to use the bare Present stem without any personal inflection: diga 'eat'. Such forms are particularly expressive and are used to
give a categorical order. The \(e\)-final verbal stems occasionally exhibit the drop of the stem final vowel before the \(2^{\text {nd }}\) person Plural Imperative suffix, which shows up as -iu in this case, for example: gulini-u (< guline-je-u) 'go (PL)'. The \(i\)-final verbal stems often demonstrate contraction with the Imperative marker. The \(2^{\text {nd }}\) person Singular Imperative affix contracts with the stem final vowel so that the resulting form ends in the diphthongoid /iel ( \(<i\)-je) or the long \(i\) i:/ (< \(i i<i j<i\)-je), for example: bugie 'give (SG)' (from the verb bugi'give (back, again)'), gazi. 'take' (from gazi- 'take'). The \(2^{\text {nd }}\) person Plural affix can contract into -i:u, for example: gazi:-u 'take (PL)' <take-IMP.2PL>. Often the Imperative is followed by the Hortative particle \(-z A\). In such cases the \(2^{\text {nd }}\) Singular inflection can be shortened into \(-i\), for example: etete-i-ze 'work' <work-IMP.2SG-HORT>. The \(2^{\text {nd }}\) Plural inflection remains unchanged: etete-je-u-ze 'work (PL)' <work-IMP-2PL>.

The negative verb in the Imperative is \(e-z i\) (2SG) and \(e-z i-u\) ( 2 PL ), for example: \(e\)-zi etete 'don't work' <NEG-IMP.2SG work>. The form of the verb 'be' in the Imperative is bi-e 'be' or bi-je <be-IMP.2SG>.

\subsection*{7.5.2. Subjunctive}

The Subjunctive is synthetic. It is based on the Present stem followed by the suffix -zA- and type II personal inflections. Class II verbs show an optional epenthetic vowel after the stem.
\begin{tabular}{lll} 
wakca-za & 'let him hunt' & <hunt-SUBJ> \\
wakca-za-mi & 'let me hunt' & <hunt-SUBJ-1SG> \\
wakca-du-ze & 'let them hunt' & <hunt-PL-SUBJ> \\
dian-(a)-za-i & 'let me say' & <say-0-SUBJ-1SG>
\end{tabular}

Although the type III inflection of the \(3^{\text {rd }}\) person Singular is a morphological null (7.2), a few cases are also attested when the Subjunctive \(3^{\text {rd }}\) person form has the regular \(3^{\text {rd }}\) person affix -ni (as in the personal inflection types I, IV, and V), for example: bi-ze-ni 'let it be' <be-SUBJ-3SG>. This is not a frequent option, however. The negative verb forms in the Subjunctive are derived from the stem ata-, for example: ata-mi wakca 'let me not hunt' <NEG.SUBJ-1SG hunt>, ata wakca 'let him not hunt' <NEG.SUBJ hunt>.

\subsection*{7.5.3. Necessitative}

This category is analytic. Like another analytic form, the Pluperfect, it is formed in a number of alternative ways, which appear equivalent semantically. Generally speaking, the Necessitative is based on the Future Participle (see 7.6.1.1.3 for its formation) and the copula 'be'. The major formal (although not
semantic) difference is between the forms that exhibit subject agreement, and those that do not.

Non-finite Necessitative forms (participles and the conditional converbs) are also analytic and are described in sections dealing with non-finite forms (7.6).

\subsection*{7.5.3.1. Subject agreement forms}

The subject agreement Necessitative can be formed in several formal ways. The difference between them originates in the position of the personal inflections and the choice of the copula. The following options are available.
(i) impersonal Future Participle of the content verb and the copula bi- in the Past:
(363) wakca-zaja bi-si-ni 'he had to hunt' <hunt-FP be-PAST-3SG>
(ii) impersonal Future Participle and the copula in the Perfect:
(364) wakca-zaja bi-s'e 'he had to hunt' <hunt-FP be-PERF>
(iii) personal Future Participle and the Perfect copula in the \(3^{\text {rd }}\) person, which remains unchanged for all persons and numbers:
(365) nua-ni wakca-zana-ni bi-s'e 'he had to hunt'
<he-3SG hunt-FP-3SG be-PERF>
bi wakca-zana-i bi-s'e 'I had to hunt' <me hunt-FP-1SG be-PERF>

The copula bi- can be replaced by the copula nixe- 'do' in the Past tense. In the latter case the meaning may be intentional: wakca-zaja nixe:-mi 'I was going to hunt' <hunt-FP do.PAST-1SG>.

Negative forms are derived with the Future Participle of the negative verb e-zeye followed by the verbal stem and the verb 'be' in the inflected Past or Perfect form: e-zeye etete bi-si-mi <NEG-FP work be-PAST-1SG> or e-zene etete bi-s'e-i <NEG-FP work be-PERF-1SG> 'I didn't have to work'.

\subsection*{7.5.3.2. Forms without subject agreement}

Personal Necessitative forms that do not exhibit subject agreement seem to originate from the Impersonal Necessitative (16.1.2.5), and are in fact formally identical to it. They are formed with the passive Future Participle of the content verb (on these participles see 7.6.1.2) and the 3rd person Singular Past of the Perfect form of the verb 'be'. The only formal difference from the Impersonal

Necessitative construction is that the subject must necessarily be overtly expressed in the sentence. Thus, since the conjugated verb ('be') can take only the \(3^{\text {rd }}\) person agreement marker, the subject agreement is suppressed for the \(1^{\text {st }}\) and \(2^{\text {nd }}\) person subjects. Examples are:
bi etete-u-zeŋe bi-si-ni 'I had to work' <me work-PAS-FP be-PAST-3SG>
si gele-u-zene bi-si-ni 'you had to call'
<you call-PAS-FP be-PAST-3SG>
nua-ni gele-u-zene bi-si-ni 'he had to call'
<he-3SG call-PAS-FP be-PAST-3SG>
Negative forms are organized in a similar way:
(367) bi e-u-zene oño bi-si-ni 'I didn't have to write'
<be NEG-PAS-FP write be-PAST-3SG>
si e-u-zene gele bi-si-ni 'you didn't have to call'
<you NEG-PAS-FP call be-PAST-3SG>

\subsection*{7.5.4. Conditional}

The Conditional mood is synthetic and is derived from the Present stem followed by the Conditional suffix -muse- and type III personal suffixes, for example: wakca-muse- \(i\) 'I would hunt' <hunt-COND-1SG>. For class II verbs the epenthetic vowel \(-A\) - is inserted after the stem and before the conditional suffix: dian-a-muse-i 'I would say' <say-0-COND-1SG>. In the \(3^{\text {rd }}\) person Plural the personal inflection \(-d u\) - precedes the conditional suffix: wakca-du-muse <hunt-PL-COND>, dian-a-du-muse <say-0-PL-COND> 'they would hunt, say'.

Negative forms: e-muse-i wakca 'I wouldn't hunt' <NEG-COND-1SG hunt>, e-muse-u wakca 'we wouldn't hunt' <NEG-COND-1PL.EX hunt>, etc.

\subsection*{7.5.5. Permissive}

The Permissive is based on the Present stem, and has the suffix -tA- and type II personal inflections. For class II verbs an optional epenthetic vowel may be present.
jene-te-mi 'I will perhaps go'
<go-PERM-1SG>
zima-ta-u 'we will visit (you) sometime'
<visit-PERM-1PL.EX>
```

bu-te-u 'we (EX) will perhaps give'
<give-PERM-1PL.EX>
diga-ta 'he may eat'
<eat-PERM>
dian-(a)-ta-u 'we will perhaps say'
<say-0-PERM-1PL.EX>
dian-(a)-ta-mi 'I will perhaps say'
<say-0-PERM-1SG>

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Permissive forms are almost always followed by the hortative clitic particle \(-z A\) (see examples in section 7.9.5).

The negative verb in this mood has the non-standard stem ata- which is followed by type II personal inflections and the bare Present stem of the content verb: ata-mi mute 'I won't be able perhaps' <NEG.PERM-1SG can>. So, for the negative verb the Permissive and Subjunctive (7.5.2) are neutralized. The verb 'be' behaves like a regular verb in the Permissive, for example: bi-te-ze 'it will perhaps be' <be-PERM-HORT>.

\subsection*{7.6. Non-finite forms}

Non-finite forms do not normally express independent predication, but serve to express the predicate of the subordinate clause. In some cases certain types of participles and infinitives serve as finite predicates. However, they co-occur with the auxiliary verb bi- 'be', and therefore, strictly speaking, the participle or the infinitive itself does not take the finite position in the sentence. Analytic forms of that type are described in the sections on finite verbal forms (7.4 and 7.5), and on copula constructions (Chapter 17).

Although some of the non-finite verbal forms exhibit the morphological categories of a noun (case and possessive), all of them behave like verbs with respect to their internal syntactic properties. They keep the valence patterns of the verb, their arguments appear in the same form as the corresponding finite verb, and they cannot be modified by nouns or adjectives. However, they are compatible with a VP-adverb, as shown by the next example where the Purposive converb is modified by a qualificative adverb in -zi.
\begin{tabular}{lcc} 
Wo:-i & \(a:-z i\) & bi-lege-fi. \\
kill-IMP.2SG & \begin{tabular}{l} 
good-INST \\
ge-PURP-1PL.IN
\end{tabular} \\
'Kill (him) in order that we may be well.'
\end{tabular}

Non-finite verbal forms have an internally fixed tense/aspect/mood structure. Most of them are specialized in conveying a particular temporal and/or modal meaning, and all of them are easily compatible with aspectual (Aktionsart) and
valence-changing affixes, subject to the usual semantic restrictions (on them see Chapter 8), for example:
a. \begin{tabular}{l} 
Ise-we-je \\
see-CAUS-IMP.2SG \(\quad\) gakpa-si-u-we. \\
shoot-IM-PAS.PRP-ACC
\end{tabular}
'Show how one should shoot.' (SK 390)
\begin{tabular}{lllll} 
b. & Ni: & sugzä-wa & nagda-li: & zuleixi tukä:-iti. \\
man & fish-ACC & get-INC.PRP & forward run-3PL
\end{tabular}
'Those who struck the fish run forward.' (SK 337)
Certain non-finite forms have passive variants.
Udihe non-finite verb forms fall into three major classes on the basis of the inflectional categories they can express and the syntactic type of the subordinate clause in which they function: (i) participles; (ii) converbs; and (iii) infinitives. Participles express the relative clause, the complement clause, and sometimes, in combination with certain case suffixes or postpositions, the adverbial clause. Converbs prototypically express adverbial clauses of various semantics (and also, in some special cases, the complement clause). Infinitives form the complement clause or the adverbial clause of manner (for further details see section 7.10).

The following morpho-semantic subclasses of non-finite verb forms are further distinguished: for participles - active, passive, Resultative, and Destinative participles; for converbs - Purposive converb, Imperfective converb, Perfective converb, and Conditional converbs (including Realis Conditional converb, Irrealis Conditional converb for the Present and the Past and Necessitative Conditional converb); for Infinitives - Infinitive and Impersonal Infinitive. Infinitives are morphologically invariable. Participles, as opposed to converbs and infinitives, take a case inflection. Active participles in certain syntactic functions and most converbs take personal agreement morphemes which indicate the person and the number of the subject of the embedded clause. Such forms will be called personal. Impersonal forms of active participles are only inflected for number. Passive, Destinative, and Resultative participles do not have personal forms, that is, do not mark the person and the number of the embedded clause subject.

Personal forms of active participles and converbs usually encode not only information about the number and the person of the subordinate clause subject, but also information about its coreferential relations with the subject of the superordinate clause (switch-reference). In other words, these forms have special inflections, which indicate whether or not the subject of the subordinate clause is coreferential with the subject of the superordinate clause (for the notion of subject see 15.1.1). When there is coreference we will speak about same-subject (SS) markers; when there is not we will refer to different-subject (DS) markers. Different-subject markers are subject agreement markers, and therefore are distinguished for two numbers and all grammatical persons.

Same-subject markers have two number forms - Singular and Plural - but do not vary in person. Some generalizations on the system of switch-reference in Udihe can be found in 22.5.

The negative participles, converbs, and infinitives are formed in a regular way: with the help of the negative auxiliary verb \(e(i)\) - which takes all the corresponding morphological markers and the bare stem of the lexical verb which follows it, sometimes followed by the copula. Below we will cite for each particular category the corresponding form of the negative auxiliary verb.

The following summary table illustrates the system of the Udihe non-finite verb forms derived from the verbal stem nodo- 'lose' (the table does not include all personal forms for active participles and converbs, nor all case forms for participles; they are found in section 7.7).
(371) Participles

Active
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Personal forms DS 3SG} & SS SG & SS PL \\
\hline \multicolumn{2}{|l|}{Present nodo-i-ni} & nodo-i & nodo-i-fi \\
\hline Past noa & nodo:-ni & nodo:-mi & nodo:-fi \\
\hline Future noa & nodo-zojo-ni & nodo-zono-i & nodo-zono-fi \\
\hline Pluperfect nod & nodo:-ni & nodo:-mi & nodo:-fi \\
\hline & \[
b i-s i-n i
\]
nodo-zono & \[
b i-s i-m i
\] & \[
b i-s i-f i
\] \\
\hline Necessitative & \[
\begin{aligned}
& \text { nodo-zoŋo } \\
& \text { bi-si-ni }
\end{aligned}
\] & \[
b i-s i-m i
\] & nodo-zoyo
\[
b i-s i-f i
\] \\
\hline Impersonal forms & s SG & & PL \\
\hline Present & nodo-i & & nodo-i getu \\
\hline Past & nodo: & & nodo: getu \\
\hline Future & nodo-z & & nodo-zojo getu \\
\hline Pluperfect & nodo: & & nodo: getu bisi \\
\hline
\end{tabular}

Passive
Present
Past
Future
Necessitative
Resultative
Destinative
\begin{tabular}{llll} 
Converbs & DS 3SG & SS SG & SS PL \\
Purposive & nodo-logo-ni & nodo-logo-mi & nodo-logo-fi \\
Imperfective & nodo-nie-ni & nodo-nie-i & nodo- \(i\) ie-fi \\
Perfective & nodo-isi-ni & nod'o-si & nodo-du-ge-si \\
Conditional & nodo-lisi-ni & nodo-li & nodo-lie
\end{tabular}
nodo-so
nodo-u-zene
nodo-u-zeŋe bi-si-ni
nodo-ktu
nodo-kči
nodo-lie
\begin{tabular}{ll} 
Irrealis Present & nodo-i bi-si \\
Irrealis Past & nodo: bi-si \\
Irrealis Necessitative & nodo-zono bi-si \\
Irrealis Necessitative Passive & nodo-u-zeje bi-si \\
& \\
Infinitive & nodo-mi \\
Impersonal Infinitive & nodo-mu \\
Future Infinitive & nodo-zojo bi-mi \\
Passive Impersonal Infinitive & nodo-u-mu
\end{tabular}

Basically, all converbs, infinitives, and participles can be formed from all types of verbs. Certain semantic restrictions exist only for Resultative Participles (see 7.10.1.4).

\subsection*{7.6.1. Participles}

As was said above, participle forms inflected for person and number will be referred to as personal forms, as opposed to the impersonal forms which do not take personal affixes (but can be pluralized). Impersonal forms do not therefore encode the person of the subject of the embedded clause, as do personal forms. Active participles have both personal and impersonal forms, whereas other types of participles have only impersonal forms. For active participles, personal and impersonal forms differ in their syntactic usage: personal forms express the predicate either in the adverbial or complement clause, or in the relative clause which follows its head, while impersonal forms serve only in some types of prenominal relatives (for further details see Chapters 19-21). All types of participles inflect for case; active participles inflect for case only in the personal forms. Participles do not occur in the Destinative and do not have Partitive and Proprietive forms.

\subsection*{7.6.1.1. Active participles}

Active participles distinguish three tense forms - relative Present, Past, and Future. Formally the tense markers of the Active participles are mostly identical to the tense markers of the finite verbs (in the Present, Past, and Future tenses) and are added to the same type of stem as in the corresponding finite verb (see 7.4). Thus, both the Future Participle and the Future finite verb are derived by means of the Future marker \(-z A \eta A-\) attached to the Present stem. In the personal form the Future Participle takes type IV personal inflections, and so does the finite verb in the Future tense. Thus, jexe-zene-ni <sing-FUT-3SG> means both 'he will sing' and 'the one who will sing (3SG)'. The same is observed in the Past: jexe:-mi <sing.PAST-1SG>, meaning both 'I
sang' and 'I who was singing'. In the Present, strict homonymy does not exist because the finite forms only take the Present marker in the \(3^{\text {rd }}\) person (see 7.4.1.1). To avoid confusion, the glosses indicate the category of Participle (PP, PRP, and FP), as opposed to the finite verbs.

As was mentioned in 7.2.2, the \(3^{\text {rd }}\) person agreement morpheme -ni may be optionally omitted in some finite forms. The same is observed with active participles.

\subsection*{7.6.1.1.1. Present active participles}

Present active participles are derived from the Present stem with the suffix -i. For class II verbs this suffix follows the epenthetic vowel -A-. For class I \(i\)-final stems the participle suffix \(-i\) - is contracted with the stem final vowel into \(-i\) :. Impersonal Singular forms coincide with the bare participle form: wakca-i 'hunting' <hunt-PRP>, dian-a-i 'saying' <say-0-PRP>. In the Plural the impersonal forms take the Plural word getu, or - more rarely - \(d u\)-: wakca- \(i\) getu 'hunting (PL)' <hunt-PRP PL>, dian-a-i-getu 'saying (PL)' <say-0-PRP-PL>. The negative auxiliary impersonal form is ei. An example of the participle in the negative form is: ei jexe 'not singing (SG)', ei jexe getu 'not singing (PL)' <NEG.PRP sing PL>, ei ñoni getu 'not being able (PL)' <NEG.PRP can-PL>, ei sono-du 'not crying (PL)' <NEG.PRP cry-PL>.

For personal forms different-subject affixes coincide with regular possessive suffixes (or type IV inflectional affixes, see 7.2), for example: wakca-i-ni 'hunting (3SG)' <hunt-PRP-3SG>, wakca-i-ti 'hunting (3PL)' <hunt-PRP-3PL>, etc. In the Nominative for the \(1^{\text {st }}\) and \(2^{\text {nd }}\) persons the personal affix is contracted with the Participle marker: \(i\) [unstressed] \(+i \rightarrow i\), for example: wakca-i 'hunting (1SG, 2SG)' (< wakca-i-i <hunt-PRP-1SG, 2SG>). In the \(2^{\text {nd }}\) Plural and \(1^{\text {st }}\) Plural Exclusive the participle suffix \(-i\) - is missing, probably for the same phonetic reasons ( \(i+u \rightarrow u\) ): wakca-u 'hunting (2PL, 1PL EX)' (< wakca-i-u <hunt-PRP-2PL, 1PL.EX>). In the function of the same-subject affixes, the reflexive possessive affixes are used: \(-i\) (truncated in the Nominative) for the Singular and \(-f i\) for the Plural. Examples: wakca-i 'hunting' <hunt-PRP.SS>, wakca-i-fi 'hunting' <hunt-PRP-SS.PL>.

Personal forms always inflect for case. The case suffix follows the participle affix -i- and precedes the personal affix. Case affixes are the same as for the class I nouns (see 4.1.3) except that in the Dative case two suffixes are found, \(-d i\) - and \(-d u\)-. In fact, \(-d i\) is an assimilated variant of \(-d u\). It appears when the personal inflection that follows it contains the vowel /i/ (cf. 2.1.4.2). Thus, the affix -di is found in all personal forms except for the \(1^{\text {st }}\) person Plural Exclusive and \(2^{\text {nd }}\) person Plural, which contain the vowel \(/ u /\) and therefore do not assimilate the Dative suffix. The regular morphonological contraction takes place in the course of case inflection on the boundary of the case morpheme and the personal inflection (2.3.1), for example: wakca-i-digi \(\leftarrow\) wakca-i-digi-i
<hunt-PRP-ABL-1SG> 'I am hunting (ABL)'. For the same-subject participles the Accusative forms are homonymous with the Nominative forms. The illustrative case paradigms are presented in 7.7.

In negative personal forms personal inflections attach to the Present Participle of the negative verb: e-i-mi 1SG, etc. However, the behavior of the negative forms with respect to the case affix is flexible in the sense that in the syntactic positions that normally require case marking for the participle, the negative verb often does not take the case marker. The case marker then remains on the verbal stem. Compare, for example, (372a) where the negative auxiliary has the case suffix (Accusative) marking the semantic role of the relativized noun, and (372b) where the case suffix (Instrumental) is added to the verbal stem and not to the auxiliary.
```

(372) a. Bi sa:-mi gugda mo: ei-we-ni
me know-1SG tall tree NEG.PRP-ACC-3SG
bie.
be.PRES.HAB
'I know a tree which is not tall.'
b. Pakula diasi-e-ni gabzi ni: ei
Pakula speak-PAST-3SG happy man NEG.PRP
bie-zi.
be.PRES.HAB-INST
'Pakula was speaking with a man who was not happy.'

```

The copula verb 'be' has two Present active participles: bi: (sometimes also bei) and bie. The personal forms can only be derived from the participle bi:, the form bie corresponds to the impersonal Habitual copula (see 7.4.2.3).

\subsection*{7.6.1.1.2. Past active participles}

The Past active participle stem coincides with the usual Past stem. This means that for class I verbs it is formed by lengthening the stem-final vowel. Special cases are the \(u\) - and \(i\)-stems where the following sound changes are observed: \(u\) + PAST \(\rightarrow u o:, \quad i+\) PAST \(\rightarrow i e\). For class II \(n\)-final verbs, the Past stem is formed by the element \(-k i\) which assimilates the stem-final \(/ n /\) into \(/ \eta /\) (7.1.2).

The Impersonal Past Participle forms in the Singular are formally identical with the bare Past stem; in the Plural they are followed by the Collective Plural word getu, cf. wakca: 'who was hunting (SG)', wakca: getu 'who were hunting (PL)' <hunt.PP PL>. Negative auxiliary forms are \(e\)-si <NEG-PAST> for the Singular and e-si getu <NEG-PAST PL> for the Plural. An example of the Past Participle in the negative form is \(e\)-si umi 'who was not drinking (SG)' <NEG-PAST drink>.

Personal forms take personal suffixes that differ from the suffixes used for Present Participles, namely they attach type V inflections: wakca:-mi 'who was hunting (1SG)' <hunt.PP-1SG>, wakca:-mu 'who were hunting (1PL)' <hunt.PRP-1PL.EX>. The same-subject inflections also differ: in the Singular -mi is used instead of \(-i\), for example: wakca:-mi 'who was hunting (SS SG)' <hunt.PP-SS>. The Plural same-subject inflection is \(-f i\) : wakca:-fi 'who were hunting (SS PL)' <hunt.PP-SS.PL>.

Negative Past active participles in the personal forms are as follows: \(e\)-si-ni <NEG-PP-3SG>, e-si-fi <NEG-PP-1PL.IN>, etc. The auxiliary verb 'be' has the form \(b i\)-si-, which inflects for person and number.

When personal forms inflect for case, the case marker follows the Past stems and the personal inflection follows the case marker. When inflected for case, Past active participles behave as nouns of the morphonological class II: in all cases except for the Nominative and Accusative the consonant \(/ n /\) precedes the case inflection (see Chapter 4 on nominal inflection). This suggests that, like class II nouns, Past active participles have an \(n\)-final stem, but \(/ n /\) does not surface in the Nominative and Accusative. In participles derived from class I verbs there is no vowel lengthening, characteristic of the Past stem, before the surface \(/ n /\), for example: wakcan-zi-ni 'who was hunting' <hunt.PP-INST-3SG>. The participles derived from \(u\)-final and \(i\)-final verbs do not exhibit any vowel changes in cases other than the Nominative and Accusative, for example:

\section*{Lalin-zi bude:-ni. starve.PP-INST die.PAST-3SG \\ 'He died from hunger.'}

Class II verbs which form the Past stem with the element -ki- have in case forms the stem-final \(/ n /\) which follows -ki-, for example: dian-kin-zi: 'who said' <say-PP-INST.SS>. The negative verb also has an \(n\)-stem, for example: \(e\)-sin-zi-ni <NEG.PP-INST-3SG>.

The case paradigms are presented in 7.7. For Past Participles the Accusative suffix is - \(m A\) - (it is identical to the class II noun Accusative, see 4.1.1.2.1). Like other same-subject participles and reflexive noun phrases, same-subject Past Participles have homonymous Accusative and Nominative forms (cf. 22.3.2). The Dative inflection is either -di- or \(-d u\) - depending on the same conditions as apply to the Present active participles (7.6.1.1.1). In the Locative and Prolative, the Past active participles take the class II declension suffixes -dile- and -dili-, respectively (rather than class I declension suffixes -le- and -li-).
\begin{tabular}{lll} 
Si oloxi-we & \begin{tabular}{l} 
wan-dile-i \\
you squirrel-ACC
\end{tabular} & kill.PP-LOC-2SG \\
xokto-wo-ni & sable
\end{tabular}

\subsection*{7.6.1.1.3. Future active participles}

The marker of the Future Participle is the same as for the finite Future forms (see 7.4.1.4), that is, \(-z A \eta A\)-. This affix follows the Present stem (with the optional epenthetic vowel for class II verbs). In the impersonal forms inflection is missing, for example: wakca-zaya 'who will hunt' <hunt-FP>, dian-(a)-zaya 'who will say' <say-0-FP>. In the Plural, impersonal forms take the Plural word getu: wakca-zaya getu 'who will hunt (PL)' <hunt-FP PL>, dian-(a)-zaya getu 'who will say (PL)' <say-0-FP PL>. Impersonal Future Participle forms of the negative verbs are: e-zeje for the Singular and e-zene getu for the Plural. An example of the Future Participle in the negative form is: e-zeye diga 'who will not eat' <NEG-FP eat>.

Personal forms use the same set of different-subject and same-subject markers and case markers as the personal forms of the active Present Participles, that is, personal inflections of type IV. For example: wakca-zaya-ni 'who will hunt (DS 3SG)' <hunt-FP-3SG>, wakca-zaya-i 'who will hunt (SS SG)' <hunt-FP-SS>, wakca-zana-fi 'who will hunt (SS PL)' <hunt-FP-SS.PL>. Examples of negative personal forms of Future active participles are: e-zene-ni wakca 'who will not hunt (DS 3SG)' <NEG-FP-3SG hunt>, e-zene-i wakca 'who will not hunt (SS SG)' <NEG-FP-SS hunt>.

Case paradigms are presented in 7.6. The Dative case suffix is either -di- or \(-d u\) - as for the other participles.

\subsection*{7.6.1.1.4. Pluperfect active participles}

Pluperfect active participles seem to be fairly rare verbal forms that are gradually being replaced in function by Past active participles. They are analytical forms that consist of the personal form of the Past active participle of the content verb and the (personal) form of the Past Participle of the copula 'be': wa:-ni bi-si-ni 'the one who had killed' <kill.PP-3SG be-PP-3SG>, diay-ki-ni bi-si-ni 'the one who had said' <say-PP-3SG be-PP-3SG>.

The Pluperfect active participle in a subordinate clause expresses anteriority with respect to the situation of the superordinate clause.
\begin{tabular}{lcr} 
Bi \(\quad\) kuti-we & ise:-mi \(\quad\) ni:-we \\
me tiger-ACC & see.PAST-1SG \(\quad\) bi-si-me-ni. \\
sieni-e-ni & man-ACC \\
wound-PP-3SG be-PP-ACC-3SG \\
'I saw the tiger that had wounded a man.'
\end{tabular}

\subsection*{7.6.1.1.5. Necessitative active participles}

Necessitative Participles are analytic and derived with Future Participles in the impersonal form and the copula in the corresponding case and personal form of the Past Participle: wakca-zaya bi-si-ni 'who had to hunt (3SG)' <hunt-FP be-PP-3SG>, wakca-zaya bi-si-u 'who had to hunt (2PL)' <hunt-FP be-PP-2PL>, jexe-zene bi-si-mi 'who had to sing (SS SG)' <sing-FP be-PP-SS>. Necessitative Participles do not seem to have impersonal forms.

\subsection*{7.6.1.2. Passive participles}

Passive participles can be derived from practically all verbs, both transitive and intransitive. They have only impersonal forms, that is, they do not inflect for number and person. However, in a particular syntactic function they have case forms which are technically derived in the same way as the corresponding case forms of class I nouns (see 4.1.1.2.1). Case suffixes are attached in a way completely identical to class I nouns, therefore case paradigms are not presented below in section 7.7.

Present and Future passive participles are formed with two morphemes. The first is the Passive marker \(-u\)-, the second is the tense marker: either \(-j(i)\) for the Present tense (the forms with or without truncation of \(/ i /\) are free variations), or \(-z A \eta A\) for the Future. The Past passive participles have a special affix -se, which encodes both the tense and the voice status of the participle. All passive participles are derived from the Present verbal stem.

The copula verb bi- 'be' has neither Present nor Future passive participles.

\subsection*{7.6.1.2.1. Regular verbs}

Passive participles are presented below.

Class I verbs
Present passive
Past passive
Future passive
'hunt'
wakca-wakca-u-j(i)
wakca-sa wakca-u-zene
'give’
bu-
bu-j(i)
bu-se
bu:-zene
'drink'
umi-
umi-u-j(i)
umi-se
umi-u-zeŋe

Class II verbs
Present passive
Past passive
Future passive
dian- 'say'
diam-u-j(i)
dian-a-sa
diam-u-zene

For Present and Future passive participles, an epenthetic vowel is not present and the root-final consonant \(-n\) is changed into \(-m\). An epenthetic vowel is inserted before the suffix of the Past Passive participle.

\subsection*{7.6.1.2.2. The negative verb}

The negative auxiliary passive participle forms are:
\begin{tabular}{ll} 
Present & \(e-u, e-u-j(i)\) \\
Past & \(e-(u)-s e, e-p t i l e\) \\
Future & \(e-u-z e \eta e\)
\end{tabular}

The forms \(e-u\) and \(e-u-j(i)\) on the one hand, and \(e-(u)\)-se and \(e-p t i l e\) on the other, are in free variation. Examples of passive participles in the negative form are: \(e\) - \(u\)-ji diga 'which is not eaten' <NEG-PAS-PRP eat>, e-se diga 'which was not eaten' <NEG-PP.PAS eat>, e-u-zene diga 'which will not be eaten' <NEG-PAS-FP eat>. Example (378) shows two different forms of the Present passive participle of the negative verb, while examples (379) demonstrate the same for Past passive participles.
\(\begin{array}{llll}\text { a. } & \begin{array}{l}\text { O-du } \\ \text { this-DAT }\end{array} & \begin{array}{l}e-u \\ \text { NEG-PAS }\end{array} & \begin{array}{l}\text { damisi. } \\ \text { smoke }\end{array}\end{array}\)
'One does not smoke here.'
\(\begin{array}{lll}\text { b. Ei b'oto } & e-u-j i & \text { diga. } \\ & \text { this mushroom } & \text { NEG-PAS-PRP } \\ \text { eat }\end{array}\)
'This mushroom is not edible.'
\(\begin{array}{lll}\text { a. Ule:-we } & \text { e-u-se } & \text { olokto. } \\ \text { meat-ACC } & \text { NEG-PAS-PP cook }\end{array}\)
'The meat is not cooked.'
b. Ugda-wa e-ptile aisi-gi-se. boat-ACC NEG-PP.PAS mend-REP-EXP
'The boat is not mended.'

\subsection*{7.6.1.2.3. Passive Necessitative Participles}

Passive participial forms with the Necessitative meaning are analytic and include the passive Future Participle and the Past Participle of the verb bi- 'be' in the \(3^{\text {rd }}\) person, for example: wakca-u-zeje bi-si-ni 'what had to be hunted for' <hunt-PAS-FP be-PP-3SG>.

\subsection*{7.6.1.3. Destinative Participles}

Destinative Participles can be formed from virtually all verbs with the possible exception of the null-place verbs discussed in 14.1.1. They have personal and impersonal forms and are derived with the suffix -kči added to the Present verbal stem (which is followed by the epenthetic vowel for class II verbs). Case inflection occurs in the same way as with nouns and is therefore not illustrated in section 7.6. Destinative Participles cannot be pluralized. Examples:
class I verbs
bu-kči
umi-kči 'meant for drinking'
jexe-kči 'meant for singing' dian-a-kči 'meant for saying'
class II verbs
'meant for giving'

The negative auxiliary verb does not have a Destinative Participle. Destinative Participles are negated with the help of a periphrastic construction (see section 23.2 "Negation").

\subsection*{7.6.1.4. Resultative Participles}

Resultative Participles also only have impersonal forms. They inflect for case in the same way as class I nouns do. The suffix of the Resultative Participles is \(-k t u\) which is added to the Present tense stem (followed by the epenthetic vowel for class II verbs). Examples: class I verbs jexe-ktu 'sang', bu-ktu 'given', umi-ktu 'drunk'; class II verbs dian-a-ktu 'said' <say-0-RES>. Resultative Participles lack the morphological Plural. Plurality may be expressed with the restrictive particle \(m^{\prime} e i\), as for some adjectives (12.1.1.9.3).

Occasionally the Resultative Participle suffix is followed by the Past passive participle suffix -se, for example, kimpi-ktu-se 'closed' <close-RES-PP.PAS>. Such forms are usually only possible for transitives and do not differ in function from the usual Resultative Participles, so the Past passive participle affix is clearly redundant here. See example (381), which illustrates the use of such "combined" participles in the finite predicate position.
\[
\begin{align*}
& \text { Ei tuduze-we siki-ktu-se. }  \tag{381}\\
& \text { this potatoes-ACC wash-RES-PP.PAS } \\
& \text { 'These potatoes are washed.' }
\end{align*}
\]

As in the case of Destinative Participles, the negative auxiliary verb does not have Resultative Participle forms. To negate Resultative Participles a periphrastic construction is used (see 23.2.1.5.3).

\subsection*{7.6.2. Converbs}

Converbs are used to form subordinate (mostly adverbial) clauses. As was remarked above, they only have personal forms (except for the Irrealis Conditional Converb), which agree in person and number with the subject of the embedded clause (same-subject and different-subject forms are distinguished). Converbs do not inflect for case. Converb suffixes mark the semantic type of the converb and at the same time of the corresponding embedded clause. Personal affixes normally follow the converb affixes. There are two possible strategies to indicate switch reference, which depend on the type of converb. First, the same-subject and the corresponding different-subject converb can differ not only in personal inflections but also in the marker of the converb itself. This strategy is used in Conditional Converbs and Perfective Converbs. Second, the same-subject and the different-subject converbs can be formed by the same morpheme, but they differ in personal inflection. This strategy, also used for active participles (see 7.6.1.1), is applied in Purposive Converbs and Imperfective Converbs (see 22.5 for more discussion on the switch-reference system).

The suffixes of most types of converbs are added to the Present tense stem (followed by the epenthetic vowel for class II verbs). The only exception is the same-subject form of the Perfective Converb, which is based on the Perfect stem. Personal inflections are always of type IV for all converbs.

\subsection*{7.6.2.1. Purposive Converb}

The Purposive Converb marker is - lAgA- followed by a personal inflection of type IV. Like all converbs, Purposive Converbs are derived from the Present stem. Examples: wakca-laga-i 'so that I hunt' <hunt-PURP-1SG>, dian-a-laga-ni 'so that he says' <say-0-PURP-3SG>. For same-subject forms reflexive possessive markers are used (-mi for Singular, -fi for Plural): wakca-laga- \(i\) 'so that one (SS SG) hunts' <hunt-PURP-SS>, dian-a-laga-fi 'so that one (SS PL) says' <say-0-PURP-SS.PL>. In reduced speech the Purposive Converb suffix -lAgA- is often phonologically shortened and pronounced as
-lA:- or -lA-, for example, diga-la:-mi or diga-la-mi instead of diga-laga-mi 'so that I eat', etc.

The negative auxiliary Purposive Converb forms are derived from the stem \(e\)-lege- with personal different-subject or same-subject affixes, cf.:
\(\begin{array}{ll}\text { Bu e-lege-u } & \text { nua enine nimajku-we } \\ \text { we NEG-PURP-1PL.EX } & \text { sleep }\end{array}\)
nimasi-e-ni.
tell-PAST-3SG
'Our mother told the tale so we would not sleep.'

\subsection*{7.6.2.2. Imperfective Converb}

The marker of the Imperfective Converb is - \(\boldsymbol{y i e}\) - (Northern - \(\eta \mathrm{AgA}\)-), which follows the Present stem and precedes the personal same-subject or different-subject inflections. As for all converbs, different-subject inflections are type IV personal inflections, and the same-subject inflections are - \(m i\) for the Singular and \(-f i\) for the Plural. Examples: wakca-yie-i 'when I was hunting' <hunt-IC-1SG>, dian-a-yie-ni 'when he was speaking' <say-0-IC-3SG>, wakca-yie-mi 'when one was hunting (SS SG)' <hunt-IC-SS>. For class II verbs it is also possible to drop the stem-final consonant \(/ n /\) before the suffix of the Imperfective Converb: dia-nie-ni 'when he was speaking' <say-IC-3SG>.

Negative forms are derived from the negative auxiliary verbal form ei followed by the verbal stem and the Imperfective Converb of the verb 'be' with a same-subject or different-subject inflection, for example: ei jexe bi-nie-i 'when I was not singing' <NEG sing be-IC-1SG>, etc.

\subsection*{7.6.2.3. Perfective Converb}

For the Perfective Converb same-subject forms and different-subject forms are derived from different verbal stems.

\subsection*{7.6.2.3.1. Different-subject}

Different-subject forms are based on the Present stem (with the epenthetic vowel for class II verbs) to which the converb marker -isi- and type IV personal inflections are added. Examples: umi:-si-ni (< umi-isi-ni <drink-PC-3SG>) 'having drunk (3SG)', wakca-isi-ti 'having hunted (3PL)' <hunt-PC-3PL>, dian-a-isi (<dian-a-isi-i <say-0-PC-1SG, 2SG>) 'having said (1SG, 2SG)', wo-isi-ni 'having done (3SG)' <do-PC-3SG>.

The different-subject negative auxiliary forms are derived from the stem \(e\)-isi- with personal different-subject affixes, for example: \(e\)-isi-ni umi 'without
him having drunk' <NEG-PC-3SG drink>, etc. The Perfective Converb of the verb 'be' is bi:-si-ni 'having been (3SG)', etc.

\subsection*{7.6.2.3.2. Same-subject}

For same-subject forms the converb suffix is -si and it is added to the Perfect verbal stem. The same-subject Singular personal inflection is missing, so -si in this case is a "portmanteau" morpheme, which marks not only same-subject, but also the function of the converb and of the corresponding embedded clause. Examples: umi-ge-si 'having drunk (SS SG)' <drink-PERF-PC.SS>, wakc'a-si 'having hunted (SS SG)' <hunt.PERF-PC.SS>, dian-ka-si 'having said (SS SG)' <say-PERF-PC.SS>. In the Plural inflection -du- is inserted before the converb marker -si or precedes the Perfect stem marker -ge- of the \(i\)-final verbs: wakc'a-du-si 'having hunted (SS PL)' <hunt.PERF-PL-PC.SS>, umi-du-ge-si 'having drunk (SS PL)' <drink-PL-PERF-PC.SS>.
The negative auxiliary same-subject form is e-s'e-li, for example: \(e\)-s'e-li umi 'without having drunk (SS SG)' <NEG-PERF-PC.SS drink>, e-s'e-du umi 'without having drunk (SS PL)' <NEG-PERF.PC.SS-PL drink>. The forms of the verb bi- are: bi-s'e-si 'having been (SS SG)' <be-PERF-PC.SS> and bi-du-ge-si 'having been (SS PL)' <be-PL-PERF-PC.SS>.

At least one example is found in which the same-subject Perfective converb takes the Passive form encoded by the Passive marker - \(u\) - preceding the Perfect stem marker -ge-.
\begin{tabular}{lll} 
(383) & Kiliga-du & zabza-du \\
snake-DAT & grass.snake-DAT & mala-u-ge-si \\
eku-ze-mi? & & \\
go-SUBJ-1SG & & \\
& 'How shall I go being bitten by snakes and grass snakes?' (SKX 226)
\end{tabular}

\subsection*{7.6.2.3.3. Same-subject converb in -nA:}

The same-subject Perfective Converb in \(-n A\) : is obsolete and is actively used only with a closed class of verbs, such as zawa-na: 'having taken' (zawa'take'), xebu-ne: 'having brought' (xebu- 'bring'), gazi-na: 'having taken' (gazi- 'take'), wende-ne: 'having left' (wende- 'leave'), oymo-no: 'having forgotten' (onmo- 'forget'). Such converbs accompany verbs of movement.
\begin{tabular}{llll} 
Ise-si:-ni & eni-ni & b'ata-ni: & omo \\
see-IM-3SG & mother-3SG & boy-AL.REF & one
\end{tabular}
aziga-wa xebu-ne: eme-i-we-ni.
girl-ACC bring-PC.SS come-PRP-ACC-3SG
'His mother sees that her son came with some girl.'
b. Ge: in'ei xente wende-ne: jene:-ni. bad dog master throw-PC.SS go.PAST-3SG 'The bad dog left, abandoning its master.'
c. Bu etete-zene-fi ormo-no: 'ai-we m'ei we work-FUT-SS.PL forget-PC.SS vodka-ACC only umi-li-e-mu.
drink-INC-PAST-1PL.EX
'Having forgotten that we had to work, we started just drinking vodka.'
d. Bi abuga-i bi in'ei-we-i xebu-ne:
me father-1SG me dog-ACC-1SG take-PC.SS
jene:-ni.
go.PAST-3SG
'My father left, having taken my dog.'
e. Bi od'o-wo
me grandfather-ACC grandmother-ACC
enine-we wende-ne: jene:-mi.
mother-ACC throw-PC.SS go.PAST-1SG
'I went, having left the grandfather, the grandmother, and the mother.'

\subsection*{7.6.2.4. Conditional Converbs}

Conditional Converbs fall into two types: (Realis) Conditional Converbs which express factual condition (7.6.2.4.1) and Irrealis Conditional Converbs which express a counterfactual condition (7.6.2.4.2).

\subsection*{7.6.2.4.1. Realis Conditional Converb}

Different-subject forms of the Conditional Converb are formed with the suffix -lisi- followed by the different-subject markers (type IV personal inflections). Examples: wakca-lisi-ni 'if he hunts' <hunt-CC-3SG>, dian-a-lisi-ti 'if they say' <say-0-CC-3PL>. Same-subject forms use the suffixes -li for the Singular and -lie for the Plural. Examples: wakca-li 'if one (SS SG) hunts' <hunt-CC.SS>, dian-a-lie 'if one (SS PL) says' <say-0-CC.SS.PL>. All forms are derived from the present stem (with the epenthetic vowel for class II verbs).

Negative auxiliary same-subject forms are \(e\)-li for the Singular and e-lie for the Plural. For different-subject forms the negative auxiliary Conditional Converb is formed from the stem e-lisi- with the different-subject suffixes, for example: e-lisi-ni jexe 'if he doesn't sing' <NEG-CC-3SG sing>.

We also have at least one example in which the Conditional Converb has a passive form marked with the passive affix -u-.
(385) \begin{tabular}{ll} 
E-u-li & xugi \\
NEG-PAST-CC.SS & bude bude-ini. \\
tur
\end{tabular}
die
'If it is not turned (back), it dies.'

\subsection*{7.6.2.4.2 Irrealis Conditional Converbs}

Irrealis Conditional Converbs are analytic, they contain the impersonal active participle of the content verb and the copula bi-si, which does not change for different personal forms. The form \(b i\)-si is in fact the Perfective Converb of the verb \(b i\) - without personal inflections. Thus, the Irrealis Conditional Converb does not mark subject agreement; one form is used for all numbers and persons. Irrealis Conditional Converbs oppose two tenses, the Present and the Past formed with the Present and Past Participles, correspondingly, as well as the Necessitative, for which Future Participles are employed. The latter has the Passive form. Examples:
```

Irrealis Conditional Converb Present
i wakca-i bi-si 'if you hunted'
<you hunt-PRP be-PAST>
Irrealis Conditional Converb Past
si wakca: bi-si 'if you had hunted'
<you hunt.PP be-PAST>
Irrealis Conditional Converb Necessitative
si wakca-zapa bi-si 'if you had to hunt'
<you hunt-FP be-PAST>
Irrealis Conditional Converb Necessitative Passive
wakca-u-zeye bi-si 'if one had to hunt'
<hunt-PAS-FP be-PAST>

```

Negations are: si ei wakca bi-si 'if you didn't hunt' <you NEG hunt be-PAST>, si e-si wakca bi-si 'if you hadn't hunted' <you NEG-PP hunt be-PAST>, e-u-zene wakca bi-si 'if one didn't have to hunt' <NEG-PAS-FP hunt be-PAST>.

\subsection*{7.6.3. Infinitives}

Infinitives are morphologically invariable. They do not inflect for person/number or case. The Infinitives are formed with suffixes added to the Present stem (followed by the epenthetic vowel for class II verbs).

\subsection*{7.6.3.1. Infinitive}

The marker of this Infinitive is -mi. Examples:
\begin{tabular}{llll} 
Class I & & Class II & \\
\begin{tabular}{lll} 
jexe-mi & 'sing' & dian-a-mi
\end{tabular} & 'say' \\
bu-mi & 'give' & & \\
umi-mi & 'drink' & &
\end{tabular}

Class II verbs occasionally have the stem-final \(/ n /\) consonant dropped before the Infinitive affix; obviously the epenthetic vowel is not present in this case, for example: kepte-we-mi 'make somebody lie' <lie-CAUS-INF>.

As is usual with the final \(/ i\), the final vowel in the Infinitive suffix can often either be truncated or changed into ie, so forms such as diga-m ~ diga-mie ~ diga-mi 'eat' are variants that depend on the pronunciation style, the intonation, and the emphasis within the sentence (see also 2.1.5).

The negative Infinitive is formed from the negative auxiliary Present stem ei- by adding the Infinitive marker, for example: ei-mi jexe 'not to sing' <NEG-INF sing>.

\subsection*{7.6.3.2. Impersonal Infinitive}

The Impersonal Infinitive is available, but is infrequent in the modern Bikin dialect, although it is commonly used in the Northern dialect. Schneider (1936) referred to it as the Plural Infinitive (Gerund, in his terms) and recorded it with the suffix -mei, and so did Kormušin (1998) and Sunik (1968: 225). In the modern Bikin dialect it is formed with the affix -mu (probably a result of the historical contraction from -mei).
\[
\begin{equation*}
\text { Class I } \quad \text { jexe-mu } \quad \text { 'singing' } \tag{388}
\end{equation*}
\] Class II dian-a-mu 'saying' <say-0-IMD

\subsection*{7.6.3.3. Future Infinitive}

A few examples are found in which the Infinitive has a compound form: the Future Participle of the content verb is followed by the Infinitive of the copula
verb 'be' bi-mi, for example: jexe-zene bi-mi 'going to sing' <sing-FP be-INF>. The Future Infinitive expresses the Necessitative or the Future meaning.


\subsection*{7.6.3.4. Passive Impersonal Infinitive}

In the Northern dialect the Impersonal Infinitive has a passive variant, formed with the regular passive morpheme \(-u\) - (8.2.1.5.1) which precedes the Infinitive marker, cf.: diga-u-mu 'be eaten', nodo-u-mu 'be lost'. Examples of the Passive Infintive are:
a. Kusige-zi to:pti-tigi sondo bagaba-u-mu.
knife-INST heart-LAT sin poke-PAS-IMI
'It is a sin to poke a knife into (somebody's) heart.' (SK 135)


\subsection*{7.6.4. Inchoative non-finite forms}

Most non-finite verbs have analytic inchoative forms which indicate that the action denoted by the verb has just started or is about to start. Inchoative non-finite forms are built by means of the auxiliary o-/e-, osi(-gi)-/esi(-gi)'remain, become' (on this auxiliary see 17.1.3). The auxiliary is preceded by the corresponding non-finite form of the content verb, for example, a participle in (391a) and (391b) or the Infinitive in (391c). It may remain uninflected.
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
Ge \\
well \(\quad\) Boxo tene eme- \(i\)
\end{tabular} \\
\begin{tabular}{l} 
i:-zene-ni. \\
enter-FUT-3SG
\end{tabular} & & osi \\
become
\end{tabular}
'Well, as soon as Boxo comes, he will enter.' (SKX 278)
b. Anana sike bi-ŋe:-i manga deu-i earlier young be-IC-1SG strong get.tired-PRP
osi jua-i bi-s'e-i.
become sleep-PRP be-PERF-1SG
'Earlier, when I was young, when I was very tired I used to sleep.'
(SKX 222)
c. Min-e-we galakta-na-mi osi-gi ei
me-0-ACC seek-DIR-INF become-REP this
sue kakt'a-zi-ni min-e-we
whetstone half-INST-3SG me-0-ACC
b'a-gi-ze-i.
find-REP-SUBJ-2SG
'If you will go to look for me, you will find me by this half of the whetstone.' (SKX 192).

\subsection*{7.7. Illustrative paradigms}

This section presents illustrative paradigms of the following verbs: class I jexe'sing', bu- 'give'; class II dian(a)- 'say'; the auxiliary bi- 'be' and the negative auxiliary \(e(i)\). For the verb dian(a)- the epenthetic vowel is shown in brackets when it is optional. If for a particular category not all verbs are cited, this means that the remaining verbs exhibit an analogous pattern. For example, the conjugation of the auxiliary \(b i\) - is often similar to that of the negative auxiliary. Impersonal verbal forms (impersonal forms of participles and infinitives, Irrealis Conditional Converbs), as well as analytic forms, are not presented here; see the corresponding sections.

General aspect
Present
\begin{tabular}{llllll}
1 SG & jexe-mi & \(b u-m i\) & dian-a-mi & \(b i-m i\) & \(e i-m i\) \\
2 SG & jexe- \(i\) & \(b u-i\) & dian-a-i & \(b i:\) & \(e i\) \\
3 SG & jexe-ini & \(b u-i n i\) & dian-a-ini & \(b i:-n i\) & \(e-i n i\) \\
1 PL EX & jexe-u & \(b u:\) & dian-a-u & \(b i-u\) & \(e-u\) \\
1 PL IN & jexe-fi & \(b u-f i\) & dian-a-fi & \(b i-f i\) & \(e i-f i\) \\
2 PL & jexe-u & \(b u:\) & dian-a-u & \(b i-u\) & \(e-u\) \\
3 PL & jexe-iti & \(b u-i t i\) & dian-a-iti & \(b i:-t i\) & \(e-i t i\)
\end{tabular}

\section*{Past}
\begin{tabular}{|c|c|c|c|c|}
\hline 1 SG & jexe:-mi & bu-o:-mi & dian-ki-mi & \(e\)-si-mi \\
\hline 2 SG & jexe:-i & bu-o:-i & diay-ki: & \(e-s i\) : \\
\hline 3 SG & jexe:-ni & bu-o:-ni & diay-ki-ni & \(e\)-si-ni \\
\hline 1 PL EX & jexe:-mu & bu-o:-mu & dià-ki-mu & \(e\)-si-mu \\
\hline 1 PLIN & jexe:-fi & bu-o:-fi & dian-ki-fi & \(e\)-si-fi \\
\hline 2 PL & jexe:-и & bu-o:-и & diay-ki-u & \(e\)-si-u \\
\hline 3 PL & jexe:-ti & bu-o:-ti & diay-ki-ti & \(e-s i-t i\) \\
\hline
\end{tabular}

Perfect
\begin{tabular}{|c|c|c|c|c|}
\hline 1 SG & jex'e-i & bu-ge-i & diay-ka-i & \(e-s ' e-i\) \\
\hline 2 SG & jex'e-i & bu-ge-i & diaj-ka-i & \(e-s ' e-i\) \\
\hline 3 SG & jex'e & bu-ge & diay-ka & \(e-s ' e\) \\
\hline 1 PLEX & jex'e-u & bu-ge-u & diay-ka-u & \(e-s{ }^{\text {e }}\)-u \\
\hline 1 PL IN & jex'e-ti & bu-ge-ti & dian-ka-ti & \(e-s ' e-t i\) \\
\hline 2 PL & jex'e-u & bu-ge-u & diaj-ka-u & \(e-s ' e-u\) \\
\hline 3 PL & jex'e-du & bu-du-ge & diaj-ka-du & \(e\)-s'e-du \\
\hline
\end{tabular}

\section*{Future}
\begin{tabular}{|c|c|c|c|}
\hline 1 SG & jexe-zeŋe-i & dian-(a)-zana-i & e-zeje-i \\
\hline 2 SG & jexe-zeทe-i & dian-(a)-zaya-i & e-zeye-i \\
\hline 3 SG & jexe-zeŋe-ni & dian-(a)-zaya-ni & e-zene-ni \\
\hline 1 PL EX & јехе-zeŋe-и & dian-(a)-zaŋa-u & e-zeŋe-u \\
\hline 1 PL PL & jexe-zeŋe-fi & dian-(a)-zaŋa-fi & e-zene-fi \\
\hline 2 PL & jexe-zeทe-u & dian-(a)-zапа-и & е-zеде-и \\
\hline 3 PL & jexe-zeŋe-ti & dian-(a)-zaŋa-ti & e-zeŋе-ti \\
\hline
\end{tabular}

Imperative
\begin{tabular}{llll}
2 SG & jexe-je & dian- \(a-j a\) & \(e-z i\) \\
2 PL & jexe-je-u & dian- \(a-j a-u\) & \(e-z i-u\)
\end{tabular}

Conditional
\begin{tabular}{llll} 
1 SG & jexe-muse-i & dian-a-muse-i & \(e-m u s e-i\) \\
2 SG & jexe-muse-i & dian-a-muse-i & \(e-m u s e-i\) \\
3 SG & jexe-muse & dian-a-muse & \(e-m u s e\) \\
1 PL EX & jexe-muse-u & dian-a-muse-u & \(e-m u s e-u\) \\
1 PL IN & jexe-muse-ti & dian-a-muse-ti & \(e-m u s e-t i\) \\
2 PL & \begin{tabular}{l} 
jexe-muse-u \\
3 PL
\end{tabular} & \begin{tabular}{l} 
dian-a-muse-u
\end{tabular} & \(e-m u s e-u\) \\
jexe-du-muse & dian-(a)-du-muse & \(e-\) du-muse
\end{tabular}

Subjunctive
\begin{tabular}{llll} 
1 SG & jexe-ze-mi & dian-(a)-za-mi & ata-mi \\
2 SG & jexe-ze-i & dian-(a)-za-i & ata-i \\
3 SG & jexe-ze & dian-(a)-za & ata \\
1 PL EX & jexe-ze-u & dian-(a)-za-u & ata-u \\
1 PL IN & jexe-ze-fi & dian-(a)-za-fi & ata- \(i\) \\
2 PL & jexe-ze-u & dian-(a)-za-u & ata-u \\
3 PL & jexe-du-ze & dian-a-du-ze & ata-du
\end{tabular}

Permissive
\begin{tabular}{llll}
1 SG & jexe-te-mi & dian-(a)-ta-mi & \(a t a-m i\) \\
2 SG & jexe-te- \(i\) & dian-(a)-ta-i & \(a t a-i\) \\
3 SG & jexe-te & dian-(a)-ta & ata \\
1 PL EX & jexe-te-u & dian-(a)-ta-u & \(a t a-u\) \\
1 PL IN & jexe-te-fi & dian-(a)-ta-fi & \(a t a-f i\) \\
2 PL & jexe-te- \(u\) & dian-(a)-ta-u & \(a t a-u\) \\
3 PL & exe-te-du & dian-(a)-ta-du & ata-du
\end{tabular}

\section*{Participles}

Active participles
Present tense
Personal forms (Nominative)
SS
\begin{tabular}{lllll} 
SG & jexe- \(i\) & dian-a- \(i\) & bi: & \(e-i\) \\
PL & jexe-i-fi & dian-a-i-fi & bi:-fi & \(e-i-f i\)
\end{tabular}

DS
\begin{tabular}{|c|c|c|c|c|}
\hline 1 SG & jexe-i & dian-a-i & \(b i\) : & \(e-i\) \\
\hline 2 SG & jexe-i & dian-a-i & \(b i\) : & \(e-i\) \\
\hline 3 SG & jexe-i-ni & dian-a-i-ni & \(b i:-n i\) & \(e-i-n i\) \\
\hline 1 PL IN & jexe-i-fi & dian-a-i-fi & \(b i:-f i\) & \(e-i-f i\) \\
\hline 1 PLEX & jexe-u & dian-a-u & \(b i:-u\) & \(e-i-u\) \\
\hline 2 PL & jexe-u & dian-a-u & \(b i:-u\) & \(e-i\) \\
\hline 3 PL & jexe-i-ti & dian-a-i-ti & \(b i:-t i\) & \(e-i-t i\) \\
\hline
\end{tabular}

An example of the case paradigm (the verb bu- 'give'):
\begin{tabular}{|c|c|c|}
\hline & 1,2 SG & 3 SG \\
\hline ACC & bu-i-we-i & bu-i-we-ni \\
\hline DAT & bu-i-di: & bu-i-di-ni \\
\hline ALL & bu-i-tigi: & bu-i-tigi-ni \\
\hline LOC & bu-i-le-i & bu-i-le-ni \\
\hline ABL & bu-i-digi: & bu-i-digi-ni \\
\hline PROL & bu-i-li: & bu-i-li-ni \\
\hline INST & bu-i-zi: & bu-i-zi-ni \\
\hline & 1 PL IN & I PL EX, 2PL \\
\hline ACC & bu-i-we-fi & bu-i-we-u \\
\hline DAT & bu-i-di-fi & bu-i-du: \\
\hline ALL & bu-i-tigi-fi & bu-i-tigi-u \\
\hline LOC & bu-i-le-fi & bu-i-le-u \\
\hline ABL & bu-i-digi-fi & bu-i-digi-u \\
\hline PROL & bu-i-li-fi & bu-i-li-u \\
\hline INST & \(b u-i-z i-f i\) & bu-i-zi-u \\
\hline
\end{tabular}
\begin{tabular}{llll} 
& 3 PL & SS PL & SS SG \\
ACC & \(b u-i-w e-t i\) & \(b u-i-f i\) & \(b u-i\) \\
DAT & \(b u-i-d i-t i\) & \(b u-i-d i-f i\) & \(b u-i-d i:\) \\
ALL & \(b u-i-t i g i-t i\) & \(b u-i-t i g i-f i\) & \(b u-i-t i g i\) : \\
LOC & \(b u-i-l e-t i\) & \(b u-i-l e-f i\) & \(b u-i-l e-i\) \\
ABL & \(b u-i-d i g i-t i\) & \(b u-i-d i g i-f i\) & \(b u-i-d i g i\) : \\
PROL & \(b u-i-l i-t i\) & \(b u-i-l i-f i\) & \(b u-i-l i:\) \\
INST & \(b u-i-z i-t i\) & \(b u-i-z i-f i\) & \(b u-i-z i:\)
\end{tabular}

Past Participle
Personal forms (Nominative)
SS
\begin{tabular}{lllll} 
SG & jexe:-mi & bu-o:-mi & diaŋ-ki-mi & \(e-s i-m i\) \\
PL & \(j e x e:-f i\) & \(b u-o:-f i\) & diay-ki-fi & \(e-s i-f i\)
\end{tabular}

DS
\begin{tabular}{lllll} 
1 SG & jexe:-mi & bu-o:-mi & diaŋ-ki-mi & \(e-s i-m i\) \\
2 SG & jexe:-i & \(b u-o:-i\) & diaŋ-ki-i & \(e-s i:\) \\
3 SG & jexe:-ni & \(b u-o:-n i\) & diaŋ-ki-ni & \(e-s i-n i\) \\
1 PL IN & jexe:-fi & \(b u-o:-f i\) & diaŋ-ki-fi & \(e-s i-f i\) \\
1 PL EX & jexe:-mu & \(b u-o:-m u\) & diaŋ-ki-mu & \(e-s i-m u\) \\
2 PL & jexe:-u & \(b u-o:-u\) & diaŋ-ki-u & \(e-s i-u\) \\
3 PL & jexe:-ti & \(b u-o:-t i\) & diaŋ-ki-ti & \(e-s i-t i\)
\end{tabular}

An example of the paradigm (the verb bu:- 'give'):
\begin{tabular}{|c|c|c|c|}
\hline & 1,2 SG & 3 SG & 1 PL IN \\
\hline ACC & bu-o:-me-i & bu-o:-me-ni & bu-o:-me-fi \\
\hline DAT & bu-on-di: & bu-on-di-ni & bu-on-di-fi \\
\hline ALL & bu-on-tigi: & bu-on-tigi-ni & bu-on-tigi-fi \\
\hline LOC & bu-on-dile-i & bu-on-dile-ni & bu-on-dile-fi \\
\hline ABL & bu-on-digi: & bu-on-digi-ni & bu-on-digi-fi \\
\hline PROL & bu-on-dili: & bu-on-dili-ni & bu-on-dili-fi \\
\hline INST & bu-on-zi: & bu-on-zi-ni & bu-on-zi-fi \\
\hline & 1 PL EX, 2PL & 3 PL & \\
\hline ACC & bu-o:-me-u & bu-o:-me-ti & \\
\hline DAT & bu-on-du: & bu-on-di-ti & \\
\hline ALL & bu-on-tigi-u & bu-on-tigi-ti & \\
\hline LOC & bu-on-dile-u & bu-on-dile-ti & \\
\hline ABL & bu-on-digi-u & bu-on-digi-ti & \\
\hline PROL & bu-on-dili-u & bu-on-dili-ti & \\
\hline INST & bu-on-zi-u & bu-on-zi-ti & \\
\hline
\end{tabular}
\begin{tabular}{lll} 
& SS PL & SS SG \\
ACC & bu-o:-fi & bu-o:-i \\
DAT & bu-on-di-fi & bu-on-di: \\
ALL & bu-on-tigi-fi & bu-on-tigi: \\
LOC & bu-on-dile-fi & bu-on-dile-i \\
ABL & bu-on-digi-fi & bu-on-digi: \\
PROL & bu-on-dili-fi & bu-on-dili: \\
INST & bu-on-zi-fi & bu-on-zi:
\end{tabular}

Future Participle
Personal forms (Nominative)
SS
\begin{tabular}{|c|c|c|c|}
\hline SG & jexe-zeŋе-i & dian-(a)-zaya-i & e-zene-i \\
\hline PL & jexe-zèe-fi & dian-(a)-zaya-fi & e-zene-fi \\
\hline
\end{tabular}

DS
\begin{tabular}{|c|c|c|c|}
\hline 1 SG & jexe-zeŋе-i & dian-(a)-zapa-i & e-zene-i \\
\hline 2 SG & jexe-zene-i & dian-(a)-zaya-i & e-zene-i \\
\hline 3 SG & jexe-zene-ni & dian-(a)-zaya-ni & e-zene-ni \\
\hline 1 PL IN & jexe-zene-fi & dian-(a)-zapa-fi & \(e\)-zene-fi \\
\hline 1 PLEX & jexe-zeŋe-и & dian-(a)-zaya-u & e-zeэe-и \\
\hline 2 PL & јехе-zeŋе-и & dian-(a)-zaya-u & e-zeпе-и \\
\hline 3 PL & jexe-zeŋe-ti & dian-(a)-zaya-ti & \(e\)-zene-ti \\
\hline
\end{tabular}

An example of the case paradigm (the verb bu:- 'give'):
\begin{tabular}{|c|c|c|}
\hline & 1,2 SG & 3 SG . \\
\hline ACC & bu-zene-we-i & bu-zeŋe-we-ni \\
\hline DAT & bu-zepe-di: & bu-zeทe-di-ni \\
\hline ALL & bu-zene-tigi: & bu-zele-tigi-ni \\
\hline LOC & bu-zeŋe-le-i & bu-zeŋe-le-ni \\
\hline ABL & bu-zene-digi: & bu-zene-digi-ni \\
\hline PROL & bu-zene-li: & bu-zeทe-li-ni \\
\hline INST & bu-zeje-zi: & bu-zeye-zi-ni \\
\hline & 1 PL IN & 2PL, 1PL EX \\
\hline ACC & bu-zene-we-fi & bu-zene-we-u \\
\hline DAT & bu-zeŋe-di-fi & bu-zene-du: \\
\hline ALL & bu-zene-tigi-fi & bu-zeje-tigi-u \\
\hline LOC & bu-zeทe-le-fi & bu-zeךе-le-u \\
\hline ABL & bu-zene-digi-fi & bu-zeŋe-digi-u \\
\hline PROL & bu-zeŋe-li-fi & bu-zeŋe-li-u \\
\hline INST & bu-zeทe-zi-fi & bu-zeŋе-zi-u \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline & 3PL & SS PL & SS SG \\
\hline ACC & bu-zeŋe-we-ti & bu-zeךe-fi & bu-zeŋe-i \\
\hline DAT & bu-zeŋe-di-ti & bu-zeŋe-di-fi & bu-zene-di: \\
\hline ALL & bu-zeŋe-tigi-ti & bu-zeךe-tigi-fi & bu-zeŋe-tigi: \\
\hline LOC & bu-zeje-le-ti & bu-zeŋe-le-fi & bu-zeŋe-le-i \\
\hline ABL & bu-zeضe-digi-ti & bu-zeךe-digi-fi & bu-zeŋe-digi: \\
\hline PROL & bu-zeŋe-li-ti & bu-zeŋe-li-fi & bu-zeŋe-li: \\
\hline INST & bu-zeŋe-zi-ti & bu-zeŋe-zi-fi & bu-zeŋe-zi: \\
\hline
\end{tabular}

Purposive Converb

\section*{SS}
\begin{tabular}{llll} 
SG & jexe-lege-mi & dian-a-laga-mi & e-lege-mi \\
PL & jexe-lege-fi & dian-a-laga-fi & \(e\)-lege-fi
\end{tabular}

DS
\begin{tabular}{ll} 
1 SG & jexe-lege-i \\
2 SG & jexe-lege-i \\
3 SG & jexe-lege-ni \\
1 PL IN & jexe-lege-fi \\
1 PLEX & jexe-lege-u \\
2 PL & jexe-lege-u \\
3 PL & jexe-lege-ti
\end{tabular}

Imperfective Converb
SS
\begin{tabular}{lll} 
SG & jexe-nie-i & dia-nie-i \\
PL & jexe-nie-fi & dia-nie-fi
\end{tabular}

DS
\begin{tabular}{|c|c|c|}
\hline 1 SG & jexe-ทie-i & dia-nie-i \\
\hline 2 SG & jexe-ŋie-i & dia-ทie-i \\
\hline 3 SG & jexe-nie-ni & dia-nie-ni \\
\hline 1 PL IN & jexe-nie-fi & dia-ทie-fi \\
\hline 1 PL EX & jexe-pie-и & dia-ทie-u \\
\hline 2 PL & jexe-пie-и & dia-ทie-u \\
\hline 3 PL & jexe-mie-ti & dia-ךie-ti \\
\hline
\end{tabular}

\section*{Perfective Converb}

SS
SG jex'e-si bu-ge-si diay-ka-si bi-s'e-si
e-s'e-li
PL jexe-du-ge-si bu-du-ge-si dian-a-du-ge-si bi-du-ge-si \(e\)-du-ge-si

DS
\begin{tabular}{|c|c|c|c|c|}
\hline 1 SG & jexe-isi & dian-a-isi & \(b i:-s i\) & e-isi \\
\hline 2 SG & jexe-isi & dian-a-isi & \(b i:-s i\) & \(e\)-isi \\
\hline 3 SG & jexe-isi-ni & dian-a-isi-ni & bi:-si-ni & \(e-i s i-n i\) \\
\hline 1 PL IN & jexe-isi-fi & dian-a-isi-fi & \(b i:-s i-f i\) & \(e-i s i-f i\) \\
\hline 1 PLEX & jexe-isi-u & dian-a-isi-u & bi:-si-u & \(e-i s i-u\) \\
\hline 2 PL & jexe-isi-u & dian-a-isi-u & \(b i:-s i-u\) & \(e-i s i-u\) \\
\hline 3 PL & jexe-isi-ti & dian-a-isi-ti & \(b i:-s i-t i\) & \(e-i s i-t i\) \\
\hline
\end{tabular}

Conditional Converb

\section*{SS}
\begin{tabular}{llll} 
SG & jexe-li & dian-a-li & \(e-l i\) \\
PL & jexe-lie & dian-a-lie & e-lie
\end{tabular}

DS
\begin{tabular}{llll} 
1 SG & jexe-lisi: & dian-a-lisi: & e-lisi: \\
2 SG & jexe-lisi: & dian-a-lisi: & e-lisi: \\
3 SG & jexe-lisi-ni & dian-a-lisi-ni & e-lisi-ni \\
1 PL IN & jexe-lisi-fi & dian-a-lisi-fi & e-lisi-fi \\
1 PL EX & jexe-lisi-u & dian-a-lisi-u & e-lisi-u \\
2 PL & jexe-lisi-u & dian-a-lisi-u & e-lisi-u \\
3 PL & jexe-lisi-ti & dian-a-lisi-ti & e-lisi-ti
\end{tabular}

\subsection*{7.8. Functions of the Indicative tense/aspect categories}

Outside declarative sentences, the Indicative forms function in interrogative sentences (23.1).

\subsection*{7.8.1. General aspect}

The term "general aspect" is conventional. It is applied here to all verbal finite forms other than those characterized as Habitual or Progressive. It therefore embraces forms with a perfective and imperfective meaning.

\subsection*{7.8.1.1. Present}

The Present tense can be formed from all verbs with the exception of experiential verbs in -sA- (8.2.2.10) and intensive verbs in \(-k i\), \(-k A-\) (8.2.2.11.2) which, due to their semantics, occur only in one of the past tenses.

\subsection*{7.8.1.1.1. Progressive meaning}

Although the Habitual and Progressive are grammaticized in separate categories, the Present tense of the general aspect is used in both these functions. In fact, in both imperfective functions (the habitual and progressive), the Present is preferred to the specialized aspectual forms, the latter only being used if it is especially important to emphasize the aspectual meaning. Note also that telic verbs do not have Progressive forms (see 7.7.3) while the Present tense is possible for virtually all semantic types of verbs.

The Present refers to actions in progress at the moment of speaking. In addition, it expresses states that obtain at the moment of speech, when the progressive character is not necessarily specified.
a. Wasia mä:usa-wa zawa-ini.

Vasya gun-ACC take-3SG 'Vasya is taking/takes the gun.'
b. Eigaŋkini bi eke-le anči bi-mi. now me time-PART no be-1SG 'I do not have time now.'

\subsection*{7.8.1.1.2. Habitual meaning}

The Present may be used to express generalized situations without any specific time reference, cf.:
a. Zikte
zei limonika
züj.
blueberry sweet schizandra sour
'Blueberry is sweet, schizandra (a local creeper) berries are sour.'
b. Tani:-ni aja-zi.
read-3SG good-INST
'He reads well.'

\subsection*{7.8.1.1.3. Praesens historicum}

The Present is used in narratives with both perfective and imperfective meaning. Cf. (394) taken from folklore texts.


\subsection*{7.8.1.2. Past}

\subsection*{7.8.1.2.1. Perfective meaning}

The Past tense is the usual way to refer to time anterior to the moment of speech. Most commonly it refers to a perfective event in the past (395) or expresses a sequence of consecutive perfective actions in the past (396).
a. \(\quad N i\) who give-PAST-3SG
ei kusige-we sin-du?
'Who gave you this knife?'
b. Nina-de emegi-e-ni.

Nina-FOC come-PAST-3SG
'Even Nina came.'
(396)


\subsection*{7.8.1.2.2. Imperfective meaning}

The Past may also refer to an imperfective situation that obtains prior to the moment of speech.
a. Nua-ni sokto:-ni.
he-3SG drink.PAST-3SG
'He was drinking.'
b. Dogbo iŋeni uŋkäla:-ni.
night day carry.PAST-3SG
'He was carrying (them) for days and nights.' (K 170)

\subsection*{7.8.1.3. Perfect}

The Perfect is used to express an individual actualized situation in the past.

\subsection*{7.8.1.3.1. Resultative meaning}

The main function of the Perfect is to refer to a perfective event in the past. It therefore combines a time reference with an aspectual meaning. Like the Perfect in a number of other languages, the Udihe Perfect in this function triggers the implication of result, that is, the relevance of the past situation at the moment of speech (as opposed to the Past tense). Normally, only telic verbs are used in this function in the Perfect.

Clauses with the Perfect tend to be short. Typically they do not include any constituents other than the subject and the verb itself. This is probably related to the communicative function that is often associated with the verb in the Perfect. It tends to convey new (focus) information. With the assumption that each clause normally conveys one piece of new information, other non-verbal constituents are unlikely to co-occur with the focussed verb.
a. Bi emegi-ge-i.
me come-PERF-1SG
'I have come back.'
b. Where is your gun?

Nod'o-i.
lose.PERF-1SG
'I have lost it.'
c. In'ei-ziga susa-du-ge.
dog-PL escape-PL-PERF
'The dogs have escaped.'
\(\begin{array}{lll}\text { d. } & \begin{array}{ll}\text { Ge } & \text { zugdi } \\ \text { here } & \text { ise-pte-li-ge. } \\ & \text { house }\end{array} \text { see-DEC-INC-PERF }\end{array}\)
'Here it is, the house has appeared.'
e. Akandi ilaktay-ka gune.

Akandi appear-PERF EV
'(He sees:) here has appeared Akandi.' (K 121)
Often the resultative Perfect adds the semantic element 'already' to the description of the situation in the past, since a separate lexeme meaning 'already' does not exist in Udihe.
a. Bring some water.

Bi gayna-s'a-i.
me bring-EXP-PERF-1SG
'I have (already) brought it.'
b. Don't repeat it.

Bi egzegi-ge-i.
me understand-PERF-1SG
'I have (already) understood it.'
The Perfect verbs do not usually co-occur with definite time adverbials and with iterative adverbials. However, they are compatible with indefinite time adverbials and particles that characterize action from the aspectual point of view, and are also likely to signalize the focus function of the verb, such as ketige 'almost', ei 'just', and eifili 'more, again'.
(400)
a. Nua-ni ketige tinmel'e.
he-3SG almost fell.PERF
'He has almost fallen down.'
b. Bi ei dian-ka-i
me just say-PERF-1SG
'I have just said it.'
c. \(\begin{aligned} & \text { Eifili } \quad \text { em'e, }\end{aligned} \quad\) eifili em'e
more come.PERF more come.PERF
'He came (once) and then came again.'

\subsection*{7.8.1.3.2. Perfect in yes-no questions}

Close to the resultative function is the use of the Perfect in yes-no questions which refer to the situation in the past, whereas in wh-questions about an event in the past it is typically the Past tense that is used. In such an utterance the focus domain extends over the verb alone.
a. Sergei mamasa-l'a?

Sergei wife-V.PERF
'Has Sergei married?'
b. Iwana sin-du kusige-we bu-ge Ivan you-DAT knife-ACC give-PERF
e-si-ni bu-o:-s(i)?
NEG-PAST-3SG give-PAST-DIS
'Has Ivan given the knife to you or not?'
c. Si dian-ka-i
you say-PERF-2SG
enine-tigi:
geje jene-lege-mi
with walk-PURP-SS
mother-LAT.REF
min-zi
we-INST
ge-tigi-ni?
surface-LAT-3SG
'Have you said to your mother that you would go to the forest with us?'

\subsection*{7.8.1.3.3. "Hot news" meaning}

The Perfect can also be used in a "hot news" situation, or to report on an unexpected event (402). Compare (403a), produced in a situation when the speaker comes from outside and announces the news, with (403b) where the regular Past is used, which rather has a narrative or "descriptive" character.
a. Exe seuni: seuni: xuli-s'e. sister awful awful come-EXP.PERF
'Sister, an awful awful one has come.'( K 105)
b. jua-gi-si-ti, dogbo j'eu-dele komokto sleep-REP-IM-3PL night what-IND bell jaida-li-ge.
ring-INC-PERF
'They were sleeping again, and (suddenly) in the night a bell started ringing.' (K182)
a. Tigde-li-ge
ba:-la!
rain-INC-PERF place-LOC
'It has started raining outside!'
b. Ba:-la tigde-li-e-ni.
place-LOC rain-INC-PAST-3SG
'It started raining.'
However, the regular Past is not totally ruled out in the "hot news" situation either.
\begin{tabular}{llll} 
(404) \begin{tabular}{ll} 
Ag'a-i, & minti-le \\
brother-1SG & we-LOC \\
od'o-ko. & \\
come.PAST-3SG & omo \\
one
\end{tabular} \\
old.man-N & & \\
'Brother, an old man has come to us.' (K 170)
\end{tabular}

\subsection*{7.8.1.3.4. Experiential meaning}

In its experiential function the Perfect expresses the notion that an event occurred at least once prior to the moment of speech. This case applies not only to telic but also to atelic verbs. Verbs with the experiential suffix - \(s A\) - are often found in the Perfect (see 8.2.2.10), but this is not necessarily so, as (405) illustrates.
\begin{tabular}{lll} 
(405) & \begin{tabular}{l} 
Nua-ti
\end{tabular}\(\quad\) e-s'e & etete-du \\
he-3SG & NEG.PERF & work-PL
\end{tabular}

\subsection*{7.8.1.4. Future}

The Future tense can be formed from virtually all verbs except desiderative verbs in -mu:i- (8.2.3.1). The Future refers to situations that are in the future with respect to the moment of speech, both perfective (406) and imperfective (407). It may imply various modal nuances, such as promise, necessity, potentiality, and the like.
\(\begin{array}{lll}\text { (406) } \begin{array}{ll}\mathrm{N} a & \text { kumte-lisi-u } \\ \text { again turn.over-CC-2PL } & \text { nua-ni }\end{array} & \text { he-3SG } & \text { sun- } a \text {-wa } \\ & \text { you.PL-0-ACC }\end{array}\)
dukte-zene-ni.
beat-FUT-3SG
'If you turn over again, he will beat you up.'
(407)
a. Caixi yene-zene-fi. further walk-FUT-1PL.IN
'We will walk further.'
b. Ketu zei t'ala bi-zene-ni. very tasty food be-FUT-3SG 'It will be a very tasty meal (made of raw fish).'
c. Ñaula-ziga somo-zoyo-ti. child-PL cry-FUT-3PL 'The children will cry.'

\subsection*{7.8.1.5. Pluperfect}

The Pluperfect is an absolute-relative tense: it refers to situations in the remote past, and also expresses temporal precedence to another past situation.

\subsection*{7.8.1.5.1. Remote past}

The first meaning can be present on its own, as in the examples below. In this case the Pluperfect refers to an isolated perfective or imperfective situation in the remote past, normally with the implication that this situation does not obtain anymore.
a. Anana uti ni: min-e-we kojko:-ni
long.ago this man me-0-ACC beat.PP-3SG
bi-s'e.
be-PERF
'A long time ago this man beat me.'
b. Anana xuda-wa-fi ninka-du long.ago fur-ACC-REF Chinese-DAT xuda-si-e-mu bi-s'e.
fur-V-PP-1EX be-PERF
'A long time ago we used to sell fur to the Chinese people.'
c. Bi ñ’aula bi-nie-i xonto \(\tilde{n}^{\prime}\) aula-ziga
me child be-IC-1SG other child-PL
min-e-we kojko:-ti bi-s'e.
me-0-ACC beat.PP-3PL be-PERF
'When I was a child, the other children beat me.'
d. Anana nua-ni egdi-me umi-e-ni
long.ago he-3SG much-ACC drink-PP-3SG
bi-s'e.
be-PERF
'A long time ago he used to drink a great deal.'
e. Anana wakca-na-mi in'ei-we long.ago hunt-DEST-INF dog-ACC alau-ge-si xuli-e-u bi-s'e. harness-PERF-PC.SS go-PP-1PL.EX be-PERF
'A long time ago we used to go hunting, after having harnessed the dogs.'

\subsection*{7.8.1.5.2. Anteriority in the past}

Temporal precedence to another past event is illustrated below. In narratives, the Pluperfect is used to refer to an event prior to the main story line. In this case the Pluperfect typically refers to the perfective situation (409a-b), but the imperfective situation is also possible (409c).


In this function, the Pluperfect is normally used in indirect speech, if the speech verb refers to the past, cf.:
\begin{tabular}{lllll} 
a. & N'ädiga & muisi-e-ni & si & nuan-di-ni \\
Nadiga & think-PAST-3SG & you & he-DAT-3SG \\
kesi-we & bu-o: & bi-s'e-i & gumu. \\
luck-ACC & give-PP & be-PERF-2SG & EV \\
'Nadiga thought you had brought (good) luck for him.'
\end{tabular}
b. Bi xaundasi-e-mi si j’e-we b'a me ask-PAST-1SG you what-ACC find-PP bi-s'e-i
be-PERF-2SG
'I asked what you had found.'

\subsection*{7.8.2. Habitual aspect}

The Habitual aspect expresses an action which is regularly or consistently performed, and can be viewed as a characteristic of a certain period of time, rather than an accidental situation. The Habitual situation is possible in the
present, past, and future. Although the habitual forms are in principle available for atelic verbs, they are rather infrequent in this use.

\subsection*{7.8.2.1. The Present Habitual}

\subsection*{7.8.2.1.1. Habitual meaning}

The Present Habitual refers to a general timeless situation rather than the moment of speech. It expresses an action not localized in time. Thus, in answer to the question (411)
(411) Nua-ni j'e-we nixe-ini?
he-3SG what-ACC do-3SG
'What is she doing (now)?'
the Habitual is not acceptable, as illustrated in (412a). Only the Present tense of the general (412b) or Progressive (412c) aspect can be used:
a. *Čaja-wa umi:.
tea-ACC drink.PRP
'She is drinking tea.'
b. Čaja-wa umi:-ni.
tea-ACC drink-3SG
'She is drinking tea.'
c. Čaja-wa umi-mi.
tea-ACC drink-INF
'She is drinking tea.'
The examples below illustrate the use of the Present Habitual.
a. Lusa j'eu-j'eu xebu-i.

Russian what-what bring-PRP
'Russians (usually) bring everything.'
b. Umi-du-ge-si jexe-du nua-ti. drink-PL-PERF-PC.SS sing-PL.PRP he-3PL
'After having drunk they (usually) sing.'
c. Nua-ti dian-a-iti o-du songo bagdi: he-3PL say-0-3PL this-DAT bear live.PRP guni--ti.
say-3PL
'They say that a bear lives here.'


\subsection*{7.8.2.1.2. Progressive meaning}

The Udihe Habitual in the Present tense can sometimes have a progressive meaning. Only atelic verbs are compatible with this use. The verb is normally repeated twice to express the intensity and the repeated character of the action.
a. Bitukä:-i tukä:-i.
me run-PRP run-PRP
'I am running, running.'
\(\begin{array}{llllll}\text { b. } & \text { Te:-i } & \text { te:-i } & n i:-d e & e i & e m e . \\ \text { sit-PRP } & \text { sit-PRP } & \text { who-IND } & \text { NEG } & \text { come }\end{array}\)
'He is sitting, sitting, nobody comes.'
c. Utemi-de geun-de-i geun-de-i.
so-FOC pole-V-PRP pole-V-PRP
'So he is pushing with his pole, pushing.'

\subsection*{7.8.2.2. The Past and Future Habitual}

In the Past Habitual the verb often co-occurs with iterative adverbials such as anana 'long ago, before, previously', tutulu 'always', and mendele 'often'.

c. Bi ñaula bi-yie-i bi mafa-i
\begin{tabular}{llll} 
me child & be-IC-1SG & me & husband-1SG \\
mendele & konko-i & bi-s'e & min-e-we. \\
often & beat-PRP & be-PERF & me-0-ACC \\
'When I was young, my husband often beat me.'
\end{tabular}
d. Ninka xuda-wa gada-mi zä:-wa aja
Chinese fur-ACC buy-INF money-ACC good
bu:-i bi-s'e.
give-PRP be-PERF
'When buying the fur, the Chinese people used to pay well.'
\(\begin{array}{llll}\text { e. } & \text { Anana } & \text { ketu } & \text { sebzeyke-zi } \\ \text { long.ago } & \text { very } & \text { interesting-INST } & \text { imasi-du } \\ \text { tell-PL }\end{array}\) bi-s'e. be-PERF
'A long time ago they used to tell tales in a very interesting way.'
An example of the progressive meaning in the past is (416). When the content verb bears the Inchoative suffix -li the construction expresses the intention to perform the corresponding action, cf. (416b) and (416c).
a
a. Mafa-ni tene \(z^{\prime} e \quad o g b o ̈ ~ w a:-m i\)
man-3SG CONT soon elk kill-INF
si:-ni bi-si-ni.
skin-3SG be-PAST-3SG
'Her husband, having then killed an elk, was skinning it.'
b. Bi nua-li:
me sleep-INC.PRP
'I was sleepy.'
c. Nua-ni jexe-li: bi-si-ni.
he-3SG sing-INC.PRP be-PAST-3SG
'He felt like singing.'
An example of the Future Habitual is:
\begin{tabular}{llll} 
(417) & Nua-ni & udie keje-zi-ni & aja-zi \\
& he-3SG & Udihe language-INST-3SG & good-INST \\
& dian-a-i & bi-zene-ni. & \\
& say-0-PRP & be-FUT-3SG & \\
& 'He will speak Udihe well.' &
\end{tabular}

\subsection*{7.8.2.3. Habitual copula}

The Habitual impersonal copula bie (Present tense) and bi-s'e (Past tense) is largely used in existential copular constructions where it can be translated as 'there is/there are' (cf. French il y a, German es gibt). On these constructions see Chapter 17, especially 17.1.2. It is also found within the analytical verbal forms, such as the Habitual (7.4.2), Pluperfect (7.4.1.5), Necessitative (7.5.3), and Progressive (7.4.3). In this use it has lost its aspectual value and is completely synonymous with the Past tense copula.

\subsection*{7.8.3. Progressive aspect}

The Progressive expresses a process in progress at the time of reference: present, past, or future. Crucially, it indicates that the speaker or the main character of the text must witness the situation in person. Thus, the meaning of the Progressive is something like '(I/he see/witness/catch) him doing'. So the Progressive implies a certain unity of time and place between the referred situation and the situation of speech. This semantic component differentiates between the Present Progressive and the progressive use of the regular or Habitual Present. Cf. (418a) in which the Progressive is used in a situation when the speaker has returned home and witnessed the situation he describes, and (418b) which is produced when he is outside his home.
\begin{tabular}{lllll} 
a. & Bi xunazi: & tege-we & wo:-mi & bi:-ni. \\
& me sister.1SG & gown-ACC & make-INF & be-3SG \\
& 'My sister is making a gown.' & & \\
b. & Bi xunazi: & wo:- \(i\) & bi:-ni. & \\
& me sister.1SG make-PRP & be-3SG & \\
& 'My sister is sewing.' & &
\end{tabular}

Examples (419) illustrate the Present Progressive, examples (420) the Past Progressive, examples (421) the Future Progressive.
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{a.} & Nua-ni & eme-isi-ni & \(b i\) & ono-mi & \multirow[t]{3}{*}{be-1SG} \\
\hline & he-3SG & \multirow[t]{2}{*}{come-PC-3SG} & \multirow[t]{2}{*}{me} & \multirow[t]{2}{*}{write-INF} & \\
\hline & & & & & \\
\hline
\end{tabular}
b. Tukti-mi tukti-mi. climb-INF climb-INF 'He is climbing, climbing.'
c. Nada ñeque eme-i-we-ni duisi-mi bi-mi. seven ogre come-PRP-ACC-3SG hear-INF be-1SG 'I hear that seven ogres are coming.' (K 115)
\begin{tabular}{lllll} 
d & Anda-tigi: & dieli-e-ni & & \multicolumn{1}{l}{ dieli-e-ni } \\
friend-LAT.REF & fly-PAST-3SG & fly-PAST-3SG \\
& jene:-ni & anda-ni & zugdi & bi-mi \\
come.PAST-3SG & friend-3SG & at.home & be-INF \\
& bie & gune. & & \\
& be.PRES.HAB & EV & & \\
& & &
\end{tabular}
'He flew to his friend, he flew, he came, his friend is apparently at home.' (K 133)
a. Bi e-zeŋe-i jene gun-e-mi
me NEG-FUT-1SG
go say-0-INF
bi-s'e-i.
be-PERF-1SG
'I was saying: I won't go.'
\begin{tabular}{llll} 
b. & \begin{tabular}{ll} 
Nua-ti & wa:tani \\
he-3PL & oño-mi
\end{tabular} & \begin{tabular}{l} 
bi-s'e. \\
write-INF
\end{tabular} & be-PERF
\end{tabular}
c. Bi zugdi-tigi igi-si: ma:ma-i
me house-LAT enter-PC.1SG grandmother-1SG
čaja-wa olokto-mi bi-s'e.
tea-ACC cook-INF be-PERF
'When I entered the house, my grandmother had been making tea.'
\begin{tabular}{llll} 
d. & Iwana & eme:-ni & ekindi-ni \\
Ivan & come.PAST-3SG & during-3SG & me \\
diga-mi & bi-si-mi. & & \\
& \\
eat-INF & be-PAST-1SG & & \\
& 'When Ivan came, I was eating.' & &
\end{tabular}

Bi eme-gi:-si: si \(\quad\) sua-mi bi-zeŋe-i.
me come-REP-PC.1SG you sleep-INF be-FUT-2SG
'When I come back, you will be sleeping.'

\subsection*{7.9. Function of non-Indicative forms}

Non-Indicative moods (Imperative, Subjunctive, Necessitative, Conditional, and Permissive) express different types of irrealis modalities. The meanings of the Subjunctive, Permissive, and, partly, the Imperative, often overlap.

\subsection*{7.9.1. Imperative}

Null-argument verbs (14.1), desiderative verbs in -mu:i- (8.2.3.1), some modal verbs and psych-verbs (such as nixe- 'to be going to do something', c̆a:la-
'want'), and some one-argument verbs that express natural phenomena (for example, mude- 'come' (of water)) do not have the Imperative. In certain copular constructions (constructions expressing destination, desire, quantity, and experiential state, see Chapter 17) the verb 'be' cannot be used in the Imperative either.

The Imperative expresses the usual imperative nuances, such as order, request, command, etc. The hortative particle \(-z A\) serves to soften the tone of the request, as in (422c).
\begin{tabular}{ll} 
a. Baulima-wa & diga \\
corn-ACC & eat.IMP.2SG
\end{tabular}
'Eat the corn.'
b. そene-je-и.
go-IMP-2PL
‘Go away!’
c. M'a diga-i-za.
here eat-IMP.2SG-HORT
'Here it is, please, eat (it)!'
d. Min-du ule:-we xaulie bu-je me-DAT meat-ACC please give-IMP.2SG
'Please, give me some meat.'
In the prohibitive functions the negative forms of the Imperative are used.
a. E-zi mudi.
NEG-IMP.2SG
'Don't mumble.'
mumble
\(\begin{array}{llll}\text { b. } & \text { Ute } & \text { bede } & \text { e-zi-u } \\ \text { that } & \text { like } & \text { NEG-IMP-2PL } & \text { iñe-we-si. } \\ & \text { laugh-CAUS-IM }\end{array}\)
Imperative verbs often take the Directive derivational suffix -nA-'go and do something' (8.2.2.8), including the cases where the component 'go' is in fact redundant, cf.:
\begin{tabular}{|c|c|c|}
\hline Jegdige, & gu\%-ki-ni, & dau-ne-je. \\
\hline hero & say-PAST-3SG & carry.over-DIR-IMP.2SG \\
\hline 'She said & & \\
\hline
\end{tabular}

\subsection*{7.9.2. Subjunctive}

The Subjunctive has a wide range of non-indicative meanings, which can very generally be characterized as unreality. On the use of the Subjunctive in dependent clauses see 18.3.1.2.

\subsection*{7.9.2.1. Exhortation}

First, the Subjunctive expresses exhortations, in which case the verb takes any person and number forms, including the \(1^{\text {st }}\) person Singular (425), the \(1^{\text {st }}\) person Plural (426), and the \(3^{\text {rd }}\) person (427).
(425) a. Bi jexe-ze-mi.
me sing-SUBJ-1SG
'Let me sing.'
b. Bi molo-zo-mi.
me fetch.wood-SUBJ-1SG
'Let me fetch the wood.'
c. Bi teluyu-si-ze-mi.
me story-V-SUBJ-1SG
'Let me tell.'
(426)
a. Kawa-tigi neu-gi-ze-fi. tent-LAT take-REP-SUBJ-1PL.IN
'Let us take (it) back to the tent.'
b. ⿹ene-ze-fi amäixi.
go-SUBJ-1PL.IN back
'Let us go back.'
(427)

Ei ni: wakca-za.
this man hunt-PERM
'Let this man hunt.'
In the \(2^{\text {nd }}\) person the Subjunctive forms in this function express a less categorical imperative than the Imperative mood.
a. Min-du konfeta-wa gada-za-i. me-DAT candy-ACC buy-SUBJ-2SG 'What if you buy me some candy?'
\(\begin{array}{lcl}\text { b. } & \text { Mama, } & \text { xele-ze-i, } \\ \text { grandmother } & \text { hurry.up-SUBJ-2SG } & \text { gur-ki-ni. } \\ \text { say-PAST-3SG }\end{array}\)

The \(2^{\text {nd }}\) person Subjunctive forms are traditionally used in conjuration. The following example is a magical address to an arrow:
\begin{tabular}{lllll} 
Ni: & bi:-si-ni & nagda-za-i & mo: & bi:-si-ni \\
man & be-PC-3SG & reach-SUBJ-2SG & tree & be-PC-3SG \\
\(e-z i\) & \multicolumn{1}{c}{ nagda. } & & &
\end{tabular}

NEG-IMP.2SG reach
'If it is a man, get in him, if it is a tree, don't get in it.' (K 111)

\subsection*{7.9.2.2. Necessity}

In the \(1^{\text {st }}\) person Singular the Subjunctive also expresses an internal obligation, cf.:
a. Anda-tigi: zima-za-mi. friend-LAT.1SG visit-SUBJ-1SG 'I should visit my friend.'
b. Susa-gi-ze-mi escape-REP-SUBJ-1SG bi. 'I must escape.'

Other Subjunctive forms may express necessity or promise.
(431) To: puza-nie ende-u-ji, nua-ni
fire master-3SG wound-PAS-PRP he-3SG tagda-za.
get.angry-SUBJ
'One can wound the master of the fire, (and) he will (necessarily) get angry.' (SKX 306)

Sometimes the Subjunctive is also used in the apodosis part of the conditional sentence with a future time of reference, although in this function the Future Indicative is more regular. The Subjunctive here implies a necessity.

Nua-ni nua-lisi-ni teu eke dian-a-za-ti.
he-3SG sleep-CC-3SG all quiet say-0-SUBJ-3PL
'If he sleeps, everybody should speak quietly.'

\subsection*{7.9.2.3. Uncertainty}

The Subjunctive can be used in uncertain or doubtful statements. In this function it occurs in all persons and numbers. The examples below demonstrate that the uncertain statement expressed by the Subjunctive normally has a future
time reference. It is also possible to use the Subjunctive in uncertain statements that have a general timeless character (434).

a. Egdeye, ni:-xi-de bi-ze-ni.
interesting man-ADJ-FOC be-SUBJ-3SG
'It is interesting, apparently there are people.' (K 181)
b. Nua-ni ata-da ñoni uli-mi.
he-3SG NEG.SUBJ-FOC can sew-INF
'I doubt that she can sew.'

Cf. also the following contrast. (435a) is infelicitous because, according to the speaker, the situation of feeling bad is not predictable for certain, therefore it can be expressed only with the Subjunctive (435b) and not with the regular Future.
\begin{tabular}{lll} 
a. & \begin{tabular}{ll} 
Min-du ge: & bi-zene-ni. \\
me-DAT bad & be-FUT-3SG
\end{tabular} \\
& 'I will feel bad.'
\end{tabular}
b. Min-du ge: bi-ze.
me-DAT bad be-SUBJ
'I will feel bad.'
In embedded clauses the Subjunctive refers to the future with respect to the event described by the matrix clause. The matrix clause verb is in this case a non-factive verb, and can be either in the past or the present.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{5}{*}{} & \multicolumn{2}{|l|}{\begin{tabular}{l}
Bi muisi-e-mi \\
me think-PAST-1SG
\end{tabular}} & \begin{tabular}{l}
abuga-i \\
father-1SG
\end{tabular} & min-e-we \\
\hline & men-zi & geje & xebu-ze & gити \\
\hline & REF-INST & together & take-SUBJ & EV \\
\hline & \begin{tabular}{l}
wakca-na-mi. \\
hunt-DIR-INF
\end{tabular} & & & \\
\hline & \multicolumn{4}{|l|}{'I wanted my father to take me hunting with him.} \\
\hline \multirow[t]{4}{*}{b.} & Si muisi:-si you think-PC.2SG & ono how & \begin{tabular}{ll} 
nixe-ze & nag \\
do-SUBJ & reac
\end{tabular} & \begin{tabular}{l}
\[
-z a:-s
\] \\
SUBJ-DIS
\end{tabular} \\
\hline & ja-za:-s. & & & \\
\hline & PROV-SUBJ-DIS & & & \\
\hline & 'What do you think: & will he r & ach (the target), or & \\
\hline
\end{tabular}

\subsection*{7.9.2.4. Questions}

The Subjunctive can be used in deliberative questions, that is, questions about actions that the speaker himself is supposed to perform. In this function only \(1^{\text {st }}\) person forms occur.
a. Zugdi-tigi \(\quad i:-z e-m i\) ? house-LAT enter-SUBJ-1SG 'Shall I enter the house?'
b. Sin-du ule:-we gazi-ze-mi?
you-DAT meat-ACC bring-SUBJ-1SG
'Shall I bring you some meat?'
c. I:mi tagda-za-mi?
why be.angry-SUBJ-1SG
'Why shall I be angry?'
d. J'e-le b'a-za-mi ni:-we belesi-lege-ti? what-LOC get-SUBJ-1SG man-ACC help-PURP-3PL 'Where can I find people to help me?'

Questions about the future asked when there is some doubt about the reality of the situation are illustrated below.
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
Ono \(\quad\) metu-ze-m \((i)\) \\
how
\end{tabular} & finish-SUBJ-1SG & me \\
& 'How shall I finish it?' &
\end{tabular}
b. Ono jene-ze-i? how go-SUBJ-2SG
'How will you go?'
\begin{tabular}{lll} 
c. J'emi ata-mi & mute? \\
Why NEG.SUBJ-1SG & finish \\
'Why won't I be able?' &
\end{tabular}

\subsection*{7.9.3. Necessitative}

Necessitative forms with subject agreement (7.5.3.1) and without subject agreement (7.5.3.2) do not seem to differ in meaning. The Necessitative expresses different deontic meanings - such as obligation, necessity, promise, both in a factual and counterfactual situation. The modal state is always anterior with respect to the moment of speech.
a. Nua-ti anana jexe-zene bi-si-ti.
he-3SG long.ago sing-FP be-PAST-3PL
'They should have sung a long time ago.'
b. Si
nua-ti-we gele-zeye
you he-3SG-ACC call-FP
bi-s'e-i.
'You should have called them.'
c. Bi anana jene-u-zene bi-si-ni Moskwa-tigi.
me long.ago go-PAS-FP be-PAST-3SG Moscow-LAT
'I had to go to Moscow a long time ago.'
d. Bi oño-wo oño-zoŋo nixe:-mi.
me letter-ACC write-FP do.PAST-1SG
'I had to write a letter.'
e. Nua-ni wakca-na-zaya-ni bi-s'e.
he-3SG hunt-DIR-FP-3SG be-PERF
'He had to go hunting.'
f. Bu dian-a-zaךa bi-s'e-u.
we say-0-FP be-PERF-1PL.EX
'We promised to say (it).'
The Necessitative is possible in the epistemic function, however this is a fairly rare option.
\begin{tabular}{|c|c|c|c|}
\hline (440) & Nua-ni & nene-zene & \(b i-s ' e\). \\
\hline & he-3SG & go-FP-3SG & be-PERF \\
\hline & 'He mus & & \\
\hline
\end{tabular}

A necessitative situation that obtains at the same time as the moment of speech is expressed by the periphrastic construction (see 7.10.3). Note, however, that the passive Necessitative (16.1.2.5) distinguishes between the Present and Past tense.

\subsection*{7.9.4. Conditional}

The Conditional is used in the matrix (apodosis) clause of complex sentences that express a counterfactual condition. Occasionally a conditional embedded clause may be absent (442).
(441) Nua-ni o-du bi-si aja bagdi-muse-i.
he-3SG this-DAT be-PC good live-COND-1SG
'If he were here I would have lived well.'

For further information on conditional clauses, see 21.8.

\subsection*{7.9.5. Permissive}

The Permissive is a rarely used mood, since nearly all its meanings can be expressed by the Subjunctive or Imperative. The term Permissive is very conventional, because permissive is only one of several possible meanings. The Permissive has three rather different functions: permissive, uncertain Future, and deliberative questions. In fact, Schneider describes the Permissive as two different sets of forms, one for a type of Imperative (the \(2^{\text {nd }}\) person) and the other one as a remote Future (all personal forms). However, these two sub-paradigms exhibit a complete formal (and partly a semantic) parallelism, and are therefore here unified in one paradigm, that of the Permissive mood.

\subsection*{7.9.5.1. Permissive meaning}

First, the Permissive expresses agreement or permission oriented directly towards the addressee. In Schneider's description (Schneider 1936: 120), this
form is treated as a subtype of the Imperative, which expresses either exhortation directed to the immediate present moment, or a polite request, or the granting of permission. In these cases only the \(2^{\text {nd }}\) person Permissive forms are possible.
a. Gun-te-i-ze say-PERM-2SG-HORT dian-a-ta-i-ze. '(OK), say it, tell it.'
say-0-PERM-2SG-HORT
b. \(G e\)
gazi-mi-de
gazi-te-i-ze.
well take-INF-FOC take-PERM-2SG-HORT
'OK, if you take it, take it.' (K 113)
c. Wende-te-i-ze.
throw-PERM-2SG-HORT
'(OK), throw it.'
d. Nugasi-je bi tada-i duo-wo-ni kiss-IMP.2SG me spear-1SG end-ACC-3SG uta-digi min-e-we nuga-si-te-i-ze. that-ABL me-0-ACC kiss-IM-PERM-2SG-HORT 'Kiss the end of my spear, then you may kiss me.' (K 199)
e. Bi e-si-mi
\(b^{\prime} a-g i\)
kusige-we.
me NEG-PAST-1SG
find-REP knife-ACC
Amä:lie b'a-gi: bu-te-i-ze. later find-REP.2SG give-PERM-2SG-HORT 'I haven't found the knife. (OK), you will find it and give it back later.'

\subsection*{7.9.5.2. Uncertain Future}

Second, the Permissive is employed to express an uncertain future event, and probability. In this case Schneider referred to it as "remote future'. In this function the Permissive is possible in all persons and numbers.
a. yene-te-mi-ze.
go-PERM-1SG-HORT
'Perhaps I will go.'
b. Ge:-zi uli-se, amä:lie bad-INST sew-PP.PAS later uli-gi-te-mi-ze. sew-REP-PERM-1SG-HORT
'It is sewn badly, perhaps I will resew it later.'
Implications triggered by the Permissive are that of agreement (445) or promise (446).

> (445)
jene, jene! jene-te-m(i)-ze.
go go
go-PERM-1SG-HORT
'Go, go! - OK, I will go.'
a. Eke bi-li eme-te-m(i)-ze. time be-COND come-PERM-1SG-HORT 'If I have time I will come.'
b. Tondo-zi yene-mi nagda-ta-i-ze. straight-INST walk-INF reach-PERM-2SG-HORT 'By going on straight ahead you might reach (it).'
c. Xam'asi eme-te-mi-ze. later come-PERM-1SG-HORT 'I will come later.'

\subsection*{7.9.5.3. Deliberative questions}

The Permissive occurs in deliberative questions.
a. Ja-la-mi
wuende-te-mi?
PROV-PURP-SS throw-PERM-1SG
'Why should I throw (it)?'
b. J'eu sita a-ta what child NEG-PERM.3SG be.tired
'What child wouldn't be tired?' (K 128)

\subsection*{7.10. Function of the non-finite forms}

Non-finite forms are typically used in subordinate clauses; these are addressed at more length in Chapters 19-21. In the finite function the non-finite forms can be either a component of an analytical category, or of a copular construction (on copular constructions see Chapter 17). The table below summarizes the syntactic functions of the non-finite forms.
\begin{tabular}{lllll} 
& \multicolumn{3}{c}{ embedded clauses } \\
\multicolumn{1}{c}{ relative } & complement & adverbial & & main \\
& & + & + & + \\
Active participles & + & + & - & + \\
Other participles & + & + & + & - \\
Purposive Converbs & - & - & + & - \\
Other converbs & - & + & + & +
\end{tabular}

\subsection*{7.10.1. Participles}

Participles are similar to verbs in that they convey temporal, modal, aspectual and voice meanings. Active and Passive Present, Past, and Future Participles indicate a relative tense. Resultative and Destinative Participles express generic situations non-specified with respect to tense.

\subsection*{7.10.1.1. Active Participles}

Active participles are the most polyfunctional non-finite verbal category (see the table of syntactic functions of the non-finite forms in 7.10). They preserve the valence patterns of the base verbs.

\subsection*{7.10.1.1.1. Finite predicates}

Active participles in combination with the auxiliary verb 'be' are used as a finite verb. The Impersonal Present Participle with the copula 'be' expresses the Habitual aspect (7.4.2). The Past Participle in personal and impersonal forms in combination with the verb 'be' forms the Pluperfect tense (7.4.1.5). Future Participles (mostly impersonal, but in rarer cases also personal) in combination with the Past form of the verb bi- form the Necessitative (7.5.3). Active participles occur in the analytical Irrealis Conditional Converb (7.6.2.4.2).

It is not uncommon to use the Past and especially the Present active participles in their impersonal forms as finite predicates without a copula. They are synonymous with finite verbs in the Past and Present, cf.: nixe-ini <do-3SG> and nixe-i <do-PRP> 'he does', nixe:-ni <do.PAST-3SG> and nixe: <do.PRP> 'he does'. In fact, under Sunik's \((1968,1997)\) analysis, such forms are treated not as participles, but as \(3^{\text {rd }}\) person finite forms within the regular paradigm. This conclusion follows because Sunik did not recognize impersonal participial forms. Participles in finite positions are very frequent in the narrative genres (see the texts in Chapter 25) but occur rarely in everyday speech.

\subsection*{7.10.1.1.2. Relative clause}

As non-finite predicates, active participles in personal and impersonal forms serve to express a relative clause, cf.:
\begin{tabular}{lll}
\(n i:-w e\) & \(w a-i\) & \(a m b a\) \\
man-ACC & kill-PRP & spirit \\
the spirit who kills people &
\end{tabular}

Active participles may refer to any participant of the situation described by the relative clause.
a. \begin{tabular}{l} 
bi ag'a-i \(\quad\) xoton-du \(\quad\) bagdi-le-i-ni \\
me brother-1SG city-DAT \\
'in the city in which my brother lives'
\end{tabular} lioC-PRP-3SG
b. ta:mati bu-o: getu kusige last.year give-PP PL knife 'the knife which was given last year'

Since the Active participle is not semantically oriented to a particular function, this makes it possible to relativize several syntactic positions using Active participles. The ability of the Active participles in relative clauses to take case and personal suffixes depends on the structural and semantic type of the relative clause. Normally, if they precede the noun they do not inflect for case, but if they follow the relativized noun they take case affixes. Personal affixes on the participle cross-reference the relative clause subject (see Chapter 19 for more detail). The substantivized impersonal participles form a headless relative clause, cf.:
\begin{tabular}{llll} 
Ei zugdi-we & wo: & getu anana \\
this house-ACC & make.PP \(\quad\) PL long.ago \\
yene:-ti. & \\
leave.PAST-3PL \\
'Those who had made this house left a long time ago.'
\end{tabular}

In a relative clause participles generally have the same temporal meaning as the corresponding finite forms.

\subsection*{7.10.1.1.3. Complement clause}

As discussed in Chapter 20 in more detail, active participles in the Accusative are used to express complement clauses:
\[
\begin{array}{ll}
\text { Bi xono:-mi nua-ti } & \text { eme-gi-e-me-ti. }  \tag{452}\\
\text { me surprise.PAST-1SG he-3SG } & \text { come-REP-PP-ACC-3PL } \\
\text { 'I was surprised that they came.' } &
\end{array}
\]

In such clauses, the personal forms agree with the subject of the embedded clause in number and person. The impersonal forms entail the impersonal or generic interpretation of the embedded clause.

The tense forms of the participles have a relative temporal meaning, that is, they express the tense relative to the event described by the matrix clause, cf.
(453a), where the Past Participle expresses the relative past tense with respect to an event in the past, (453b), where the Future Participle expresses the future relative to the past, and (453c), where the Present Participle expresses the present relative to the past.
a. \begin{tabular}{ll} 
Bi sa:-mi & Iwana eme-gi-e-me-ni. \\
me know.PAST-1SG & Ivan come-REP-PP-ACC-3SG \\
'I knew that Ivan came.' &
\end{tabular}.
b. Bi sa:-mi Iwana ele eme-gi-zene-ni. me know.PAST-1SG Ivan soon come-REP-FP-3SG 'I knew that Ivan would come soon.'
c. Bi sa:-mi Iwana eme-gi:-we-ni me know.PAST-1SG Ivan come-REP.PRP-ACC-3SG 'I knew that Ivan is coming.'

Impersonal forms of participles may be used in a complement clause if its subject has a generic interpretation, cf.:

Uta bede
that like
niča-digi
small-ABL
xokčo-i-we-ni, attack-PRP-ACC-3SG how-FOC hunt-PRP-ACC 'Playing like this boys learn how each animal attacks and how one should hunt.' (SKX 302)

\subsection*{7.10.1.1.4. Adverbial clause}

With various case suffixes and postpositions, personal participle forms are used to express different types of adverbial subordination, for example:

Nua-ni
sono:n-zi cry.PP-INST.SS]
'After crying she fell asleep.'
These cases are described in more detail in Chapter 21.

\subsection*{7.10.1.2. Passive participles}

Passive participles have two distinct functions.
First, they are used as a finite predicate. In this case they express an impersonal situation in the Agentless Passive constructions. The agent of the action expressed by such a participle is understood as universal or indefinite, and the sentence has a generic reading, see 16.1.2. The passive participles are in the Present, Past, or Future and co-occur with the copula verb. Passive participles derived both from transitives and intransitives are used in this function.

Second, passive participles serve to express relative clauses. In this function the passive participles derived from transitives are mostly used, since the relativized noun corresponds to the patient/theme argument (see Chapter 19). These passive participles may express an impersonal meaning in this case as well.
a. Tugbu-se mo:-lo te:-mi. cut-PP.PAS tree-LOC sit.PAST-1SG 'I was sitting on the cut down tree.'
b. Mo:-wo tugbu-se-le te:-mi. tree-ACC cut-PP.PAS-LOC sit.PAST-1SG
'I was sitting on the cut down tree.'
Passive participles derived from intransitives are very rare in this function, however they are not totally impossible. The examples below demonstrate that they are available to express a generic situation, while the relativized noun corresponds to any non-subject constituent.


\subsection*{7.10.1.3. Destinative Participles}

Like passive participles, Destinative Participles have two syntactic functions: they are used as finite predicates or in a relative clause.

\subsection*{7.10.1.3.1. Destinative function}

In both functions the Destinative Participle expresses the action for which one of the participants of the sentence is destined, meant, or designed. They may be semantically oriented to the instrument (458a), location (458b), patient/theme (458c), and very rarely to the agent (458d).
a. wakca-kči
juosi-kči
b. olokto-si-kči
c. umi-kči
d. wa:-kči
'(designed) for hunting (with)'
'(designated) for cutting (with)'
'(designated) for cooking (in)'
'(designed) for drinking'
'(designated) for killing'

The Destinative Participle does not express time reference. The situation is understood as universal, cf.:
\begin{tabular}{llll}
\begin{tabular}{lll} 
Bu-je \\
give-IMP.2SG & min-du & in'ei-we egbesi-kči
\end{tabular} & \begin{tabular}{l} 
xeku-we. \\
me-DAT
\end{tabular} & dog-ACC tie-DP & rope-ACC
\end{tabular}
'Give me a rope to tie the dog.'
On finite copular constructions with the Destinative Participles see Chapter 17.

\subsection*{7.10.1.3.2. Past meaning}

In certain rare cases the Destinative Participle in the relative clause has a Past rather than a destinative meaning. It can then substitute for the Past Participle. Used in this function the Destinative Participles are subject-oriented and apparently available for all verbs. They may take personal inflections that refer to the subject of the relative clause (see Chapter 19 for examples and more discussion). In fact Schneider (1936) cited the forms that are described here as Destinative Participles as regular Past Participles.

\subsection*{7.10.1.3.3. Generalized relative clause}

Destinative Participles are employed as non-finite predicates in a generalized relative clause with a negative meaning (23.2.1.6.4). They are the only way to express this meaning.

\subsection*{7.10.1.4. Resultative Participles}

Resultative Participles are formed from all transitive and many intransitive verbs. Intransitive atelic verbs such as tukä:- 'run', ilana- 'shine', su:le- 'be ill', xeŋpi- 'snore', azana- 'be shy', agda- 'be happy', asigi- 'to be recovered', gända- 'be lazy', and ekisi- 'dream' do not have Resultative Participles.

Resultative Participles refer to a state that is a result of a previous situation. Formed from intransitive verbs, they express the subject-oriented resultative, that is, the single argument of the Participle (the subject of the resulting state) coincides with the subject of the prior action.
\begin{tabular}{ll} 
deu- & 'get tired' \\
auli- & 'swell' \\
su:- & 'go down (of light)' \\
xa:- & 'become shallow' \\
kimpi- & 'close' (Intransitive) \\
pama- & 'get lost' \\
zegde- & 'burn' \\
lali- & 'starve' \\
bogoli- & 'get frightened' \\
sabda- & 'drop' \\
sokto- & 'get drunk' \\
sono- & 'cry'
\end{tabular}
```

Transitives regularly form the object-oriented resultative. It expresses the state of the object of the previous situation.

| guzaga- 'tear' | guzaga-ktu | 'torn' |  |
| :--- | :--- | :--- | :--- |
| oño- | 'write' | oño-ktu | 'written' |
| siki- 'wash' | siki-ktu | 'washed' |  |
| cemine- 'deceive' | cemine-ktu | 'deceived' |  |

The Resultative Participle is used as a finite predicate in resultative copular constructions (17.2.2.5). In addition it serves to express the relative clause with a resultative meaning (see Chapter19). Both the subjective and objective Resultatives are used in both functions.

### 7.10.2. Converbs

The main function of converbs is to form an adverbial, and sometimes also a complement, embedded clause. A detailed description of converbial embedded clauses can be found in Chapters 20 and 21.

### 7.10.2.1. Purposive Converb

In the absolute majority of cases the Purposive Converb serves to form a purpose embedded clause (21.4). It is also used in a subordinate complement clause with subject control (same-subject forms, see 20.2.3.1) and object control (different-subject forms, see 20.2.3.2).

### 7.10.2.2. Imperfective Converb

The Imperfective Converb serves to express the adverbial temporal clause. The events described by the main clause and the subordinate clause both refer to the same moment in the past, and both verbal forms in this case have an imperfective meaning (21.3.2.1). Thus, the Imperfective Converb expresses simultaneity with respect to the situation in the past.

### 7.10.2.3. Perfective Converb

The Perfective Converb is used in the adverbial temporal clause (see 2.3.2.2). In contrast to the Imperfective Converb, it conveys a situation which is prior to the situation of the main clause, so it expresses the relative past tense with respect to the matrix clause. Often the Perfective Converb has an implicit additional meaning of cause.

### 7.10.2.4. Conditional Converbs

Conditional Converbs express a condition in a conditional subordinate clause (protasis). The condition may be factual (non-hypothetical), in the case of the Realis Conditional Converb, or counterfactual, in the case of the Irrealis Conditional Converb. For more detail see 21.8. Occasionally, an embedded clause with a Past Subjunctive Conditional Converb does not have a conditional meaning in the strict sense, but expresses a temporal meaning (21.3.2.3) or a non-specific adverbial subordination with different additional implications, for example, that of an unrealized action in the past:

| Bi sin-tigi | eme-kce-i | bi-si | eniye- $i$ |
| :--- | :--- | :--- | :--- |
| me you-LAT | come-DES-PRP | be-PAST | mother-1SG |
| e-ini | tinda. |  |  |
| NEG-3SG | let |  |  |

'I wanted to come to see you, but my mother does not let me.'

### 7.10.3. Infinitives

All types of infinitives express the general idea of action and do not refer to any particular time. Unlike most other non-finite verbs, the Infinitive has only same-subject forms.

The Infinitive has three different functions.
First, in combination with the auxiliary bi- it forms a finite predicate, namely, the Progressive aspect (7.4.3). Second, the Infinitive functions as a non-finite verb in certain complement embedded clauses with a subject (463a) or direct object (463b) meaning.
a. Min-du o-du te:-mi aja. me-DAT this-DAT sit-INF good 'It is nice for me to sit here.'
b. $\begin{array}{ll}\text { Iwana } & \text { wadi-e-ni } \\ \text { Ivan } & \text { stop-PAST-3SG }\end{array} \begin{aligned} & \text { jexe-mi. } \\ & \text { sing-INF }\end{aligned}$
'Ivan stopped singing.'
Chapter 20 provides further descriptions of such constructions.
Finally, it is used in an adverbial clause in which the subject is always co-referential with the matrix clause subject (21.1). In most cases the infinitival adverbial clause is non-specified semantically and expresses an associated situation. In some cases the clause is coordinated with the main clause rather than exhibiting syntactic embedding. It may also be used as an adverbial of manner (464a), or have an additional implied adverbial meaning, such as temporal, causal (464b), or concessive.

| a. | Nua-ni | nele-mi | susa-gi-e-ni. |
| :--- | :--- | :--- | :--- |
|  | he-3SG | get.frightened-INF | escape-REP-PAST-3SG |
|  | 'He escaped being frightened.' |  |  |

b. Aziga mafa-la-mi sono:-ni.
girl man-V-INF cry.PAST-3SG
'The girl was crying while (because of) getting married.'
The following sentence is an isolated example of the Infinitive in the Instrumental case form:

| Aziga-ziga $\quad$ gusi:-ti | ñah-wa | ehli-m(i)-zi. |  |
| :--- | :--- | :--- | :--- |
| girl-PL | play-3PL | skin-ACC | process-INF-INST |
| 'The girls play | while processing skins.' (SK 1112) |  |  |

The Impersonal Infinitive is only used in impersonal sentential subject clauses (20.1.1.1), cf.:

| (466) | O-du bagdi-mu <br> this-DAT live-MMI | nice |
| :--- | :--- | :--- |

### 7.11. Periphrastic tense/aspect/mood categories

In this section we address analytical verbal forms which do not include a standard auxiliary 'be' as their component, but rather other elements.

### 7.11.1. Alternating action

Alternating actions are expressed by a construction in which two different verbs have the bare Perfect stem, and the finite categories are expressed by the auxiliary wo:- or nixe- 'do' in the Present or in the Past. The situation accordingly pertains either to the Present or to the Past. The construction, therefore, includes three verbs. The two actions named by the two content verbs are perceived as quickly alternating with each other and as being performed by the same participant. The shared subject is expressed only once, cf.:


At least one example is also found in which the alternating action is performed by two different participants. They correspond to two subjects, both of which are followed by the content verb. The copula verb is present only once and demonstrates Singular agreement.


### 7.11.2. Immediate future

The Immediate future is expressed by a combination of the time adverbial ele (ele) 'in the nearest future, soon' and the Past or Perfect form of the content verb augmented by the Inchoative derivational suffix -li- (on this suffix see 8.2.2.1).
a. Ele ele kaktaga-li-e-ni.
soon soon burst-INC-PAST-3SG
'It will burst soon.'
b. Nua-ni ele eme-gi-li-ge.
he-3SG soon come-REP-INC-PERF
'He will return soon.'
c. Sele-we tausi:-ti ele c'aligi iron-ACC forge-3PL soon white ede-li-e-ni.
become-INC-PAST-3SG
'They forge iron, and soon it will become white.'
d. Inzala-ma gou-i ele ele buktag'a. fir.tree-ADJ pole-1SG soon soon break.PERF
'My pole made of fir tree is about to break.' (K 122)

### 7.11.3. Periphrastic Necessitative

The Periphrastic Necessitative construction is borrowed from Russian, as is one of its components. It uses the Russian loanword nade 'must', sometimes augmented by the derivational suffix -lA, that is, nade-le 'must' (on this suffix see 8.1.1.3). The content verb precedes the modal predicate nade(le) in the form of the Simple Infinitive (470a), the same-subject form of the Purposive Converb (470b), or the finite form in the Present tense (470c).
$\begin{array}{lll}\text { a. } & \begin{array}{ll}\text { Bi Olono-tigi } & \text { nene-mi }\end{array} & \text { nade } \\ \text { me Olon-LAT } \\ \text { 'I must go to Olon.' }\end{array}$

| b. | Men-e kainku-i <br>  REF-0 brake-REF.ACC | gene-gi-lege-mi <br> fetch-REP-PURP-SS | nade. |
| :--- | :--- | :--- | :--- | :--- |

The Periphrastic Necessitative refers to the obligation that obtains at the moment of the utterance. It therefore differs in time of reference from the regular Necessitative (7.5.3), which always expresses a modal situation in the past.

### 7.11.4. Expressive Past

Two impersonal verbal forms are used in the expressive style of speech to render a (perfective) situation in the past. These forms do not exhibit subject agreement, that is, each of them is used for all grammatical numbers and persons.

### 7.11.4.1. Expressive Past in $-k$

The impersonal Expressive suffix $-k$ (sometimes pronounced as $-\lambda$ ) may be related historically to the derivational Expressive affix $-k i-,-k A-(8.2 .2 .11 .2)$. However, synchronically their usage differs. The verbal forms with the $-k$ suffix are impersonal, and the action necessarily takes place prior to the moment of speech. They take neither any tense/mood/aspect markers nor any personal affixes and do not co-occur with negation. The intensive suffixes $-k i$-, $-k A$-, on the other hand, derive a fully inflected verb that has personal inflections and can have different temporal forms (excluding the Present). The suffix $-k$ attaches to the Past stem (7.1.2).
(471) Expressive
olokto:-k
agbu-o:-k
xuaji-e-k

| 'cooked' | bare stem <br> olokto- <br> agbu- |
| :--- | :--- |
| 'took out' | agaji- |
| 'cut' |  |

Past stem olokto:-agbu-o:-xuaji-e-

The forms in $-k$ have an intensive meaning, that is, they express an intensive and/or sudden action in the Past, cf.:
a. Nua-ni iligi-e-k.
he-3SG jump-PAST-EXPR
'He jumped up (suddenly).'


In folklore texts the impersonal intensive forms do not necessarily refer to an intensive or sudden action. Sometimes they can simply be used to refer to a single perfective situation in the past (473a), or, more frequently, to a sequence of several perfective events (473b), and they can easily be coordinated with the regular Past (473c). However, forms with the expressive suffix $-k$ are not regarded as "prestigious". Although informants often use them spontaneously when recounting folklore, upon inquiry they advise that these forms should be avoided.
a. Činda lagbana:-k. bird stick.PAST-EXPR
'The bird got stuck.'
b. Di:xi tanda:-k,
on.the.riverbank carry.PAST-EXPR water s'olo:-k, zugdi: neugi-se:-k, scoop.PAST-EXPR house.LAT take-EXP.PAST-EXPR sugese-i gazi-gi-se:-k. axe-REF bring-REP-EXP.PAST-EXPR
'She carried (it) to the riverbank, scooped out some water, took it home and brought an axe.' (K 191)
c. Ogdö-wo xoa-na:-k, zugdi-ti:
coffin cut-DIR.PAST-EXPR house-LAT
gada:-ni.
take.PAST-3SG
'He made the coffin and took it home.' (K 190)
The construction in question may in fact go back to the periphrastic construction in which a personal form of the verb wo:- 'do, make' in the Present, Future or the Past is employed together with the form in $-k$. Such a construction sounds archaic in the modern language, but still occurs, cf.:

[^2]| b. | Agdi thunder | sakine:- $k$, clap.PAST-EXPR | tigde-li-e-k <br> rain-INC-PAST-EXPR |
| :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { wo:-ini. } \\ & \text { do-3SG } \end{aligned}$ |  |  |
|  | '(Suddenly) the thunder broke, and it started raining.' |  |  |
| c. | Uta-wa that-ACC | mamasa-la:-k wife-V.PAS-EXPR | wo:-ni. <br> make.PAST-3PL |
|  | 'Then he got married.' |  |  |
| d. | Ete-k | o:-zono-fi. |  |
|  | win-EXPR | make-FUT-1PL.IN |  |
|  | 'We will w | n!' (SK 1141) |  |

On the other hand, the verb wo:- 'do, make' is compatible with the bare or inflected Past or (more seldom) the Present stem of the content verb. The resulting construction has the same meaning.

| a. | Umu-i | umu-le-gie |
| :--- | :--- | :--- |
| belt-REF | belt-V-REP.PAST | tege- $i$ |
|  | gown-REF |  | teti-gie o:-ni. dress-REP.PAST make.PAST-3SG

'He put on the belt and the gown.' (SKX 96)
b. Namu eh-le-ni nede:-ti o:-ti.
sea side-LOC-3SG put.PAST-3PL make.PAST-3PL
'They put him from the side of the sea.' (SKX 134)
c. Tu: č'asa-i o:-ti.
all tickle-PRP make.PAST-3PL
'They always tickled her.' (SKX 190)
d. Mamasa-la-ti o:-ti.
wife-V-PC.SS make.PAST-3PL
'They immediately got married.' (SK 704)

### 7.11.4.2. Expressive Past in -lA

The Present verbal stem can be augmented by the suffix -lA, e.g., yene-le 'went'. The resulting forms do not take agreement affixes. In colloquial speech they usually indicate the Past tense and apparently do not convey an additional meaning in comparison to the regular Past, but are more expressive. As argued in Perexval'skaja (1991e, 1997), they appeared as a result of double pidginization (1.5). Forms in -lA are typical of the dialect of Iman and only occasionally occur in the Bikin dialect.
(476) Gänd'a-use pala siki-le, su: gakpa-la. be.lazy-ADJ floor wash-PAST sun appear-PAST
'A lazy (woman) washed the floor, and the sun appeared.' (a proverb)

## Chapter 8 Verbal derivation

Verbs are formed with a large range of derivational affixes attached to a noun or an adjective, or to morphologically simpler base verbs. In the first case, suffixation marks the transition of a noun or an adjective to another grammatical class (the verb); in the second case, the grammatical class remains unchanged. In the verbal form the interclass derivational affixes immediately follow the verbal stem and precede the suffixes which form deverbal verbs. All derivational suffixes attach to the Present verbal stem. They are easily compatible with each other, and with various inflectional verbal categories. Non-finite verbal forms can easily host derivational verbal affixes. This refers not only to the affixes of the denominal derivation of verbs, but also to the affixes of deverbal derivation, including aspectual, modal, and valence-changing affixes (an exception is provided by the Passive, which is not compatible with all non-finite forms). This point is illustrated below. In the example below the Infinitive bears the Repetitive and Experiential aspectual markers.

Eme-gi-se-mi-de ei eme-gi.
come-REP-EXP-INF-FOC NEG come-REF
'He had to return but he didn't return.' (SKX 328)
Some of the verbal derivational affixes are very frequent and productive; the lists of verbs provided for each case in this section are not intended to be exhaustive. Yet, verbal derivation is typically restricted to a certain subset of verbal stems. Therefore, for example, the Passive, which is formed only from transitives (8.2.1.5), is regarded as an instance of verbal derivation and not as an inflectional category. Furthermore, unlike inflectional categories, verbal derivation can alter the argument structure of the initial verb. This criterion classifies, for example, the absolutely productive Causative suffix -wAn-, compatible with virtually every verb (8.2.1.2), as a derivational suffix. A formal criterion that allows us to distinguish between derivational and inflectional verbal affixes in Udihe is negation. Unlike inflectional morphemes, derivational suffixes are preserved in the bare stem of the content verb in the negative conjugation (23.2). The negative auxiliary verb does not take derivational affixes, with the exception of the Passive. The examples below
present the Reciprocal (478), the Causative (479), the Decausative (480), and the Repetitive (481).

| Nua-ti zuye $\quad$ ni:-de <br> he-3PL both <br> people-FOC | e-iti | NEG-3PL |
| :--- | :--- | :--- |$\quad$| dia-masi:-ti. |
| :--- |
| say-REC-3PL |


| a. | Xunazi-di-fi | $e-z i-u$ |
| :--- | :--- | :--- |
| sister-DAT-REF | NEG-IMP-2PL | eat-wen-e |
|  |  |  |

mafa ule:-we-ni. bear meat-ACC-3SG
'Don't let your sisters eat the bear's meat.' (K 131)
b. Uti jegdige bui-we e-ini
that hero animal-ACC NEG-3SG xuli-wen-e, g'ai-wa e-ini dieli-wen-e. go-CAUS-0 raven-3SG NEG-3SG fly-CAUS-0 'This hero does not let an animal walk, and does not let a raven fly.'
c. E-zene-i diga-wan-a sin-du.

NEG-FUT-1SG eat-CAUS-0 you-DAT
'I won't feed you.'

| Negze | ba:-la | käna | xokto-ni | aja | ise-pte |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| open | place-LOC | deer | footstep-3SG | good | see-DEC |
| mokt'oi-lo | käna | xokto-ni | ei | ise-pte. |  |
| bushes-LOC | deer | footstep-3SG | NEG | see-DEC |  |

'At the open place the tracks of the deer are seen well, in the bushes the tracks of the deer are not seen.'

| a. | Bu zugdi-tigi | e-zeye-u |
| :--- | :--- | :--- |
| we house-LAT | NEG-FUT-1PL.EX | eme-gi. |
| come-REP |  |  |

b. Nua-ti ugda-wa e-iti
he-3PL boat-ACC NEG-3PL 'They didn't mend the boat.'
aisi-gi.
mend-REP

Compounding is not a widely used verb formation process in Udihe. Some examples of noun/adjective-verb compounding are discussed in section 8.3.

### 8.1. Interclass derivation

Affixes of the interclass derivation (those that derive verbs from nouns and adjectives) are denoted as $V$ (verb) in the glosses. Most denominal verbal suffixes derive verbs that incorporate the base noun in their meaning, so the verb contains
the object in its own semantics. However, this does not normally lead to the suppression of the corresponding argument. For example, the suffix -lA- derives verbs from base nouns that are semantically the object of the corresponding verb: $a u$ 'cap' $\rightarrow a u$-la- 'put on a cap'. The verb au-la-behaves as transitive. Although the overt object need not be present in the sentence, it may be expressed by means of a separate word (482). A cognate object must be overtly present if it acts as a head of its own phrase and is modified by an adjective, as in (483a), a possessive phrase (483b), an adverb (483c), or if it includes a suffix-semantic modifier, such as the Diminutive suffix in (483d). This indicates that the derivation of most denominal verbs is opaque with respect to syntactic processes. A non-cognate object is obligatory (484).
a. Sama ulikte ulikte-si:-ni. shaman shaman.lard shaman.lard-V-3SG
'The shaman prepares the shaman lard.'
b. Ogdö-wo ogdö-ni-ze-fi.
coffin-ACC coffin-V-SUBJ-1PL.IN
'Let us make a coffin.' (K 190)
$\begin{array}{lll}\text { a. } & \begin{array}{l}\text { Imexi } \\ \text { new }\end{array} & \begin{array}{l}a u-w e-i \\ \text { cap-ACC-REF.ACC }\end{array} \\ \begin{array}{l}a u-l e-g i-j e \\ \text { cap-V-REP-IMP.2SG }\end{array}\end{array}$
'Put on a new cap.'
b. Bi au-we-i au-le-gi-je.
me cap-ACC-1SG cap-V-REP-IMP.2SG
'Put on my cap.'
c. $\begin{array}{lll}\text { Läs }{ }^{j} & \text { um'a-wa } & \text { um'a- } \boldsymbol{\eta} i s i-e-n i . \\ \text { many } & \text { hook } & \text { hook-V-PAST-3SG }\end{array}$
'He set up many (fish) hooks.' (K 141)
d. Au-ziga-wa au-le-gi:-ni. cap-DIM-ACC cap-V-REP-3SG
'He is putting on a little cap.'
sele-me joxo-wo au-le-gi-ge-si
iron-ADJ $\quad$ pot-ACC $\quad$ cap-V-REP-PERF-PC.SS
'having put an iron pot on as a cap' (K 181)

```

However, the base noun of at least some verbs seems to be accessible for syntax. In particular, it is possible to modify the base noun without repeating the object.

Omo yeni-ni nada-ma mo-mugu-ni-e-ni.
one day-3SG seven-ACC tree-N-V-PAST-3SG
'He produced seven piles of wood in one day.' (SKX 166)

The cognate object often (although not necessarily) remains morphologically unmarked and occurs in the bare form, especially in the Northern dialect, for which the morphological marking of the Accusative is less regular than for the Southern dialect (4.2.2.2). If the cognate object is not a direct object it is normally present in the sentence, for example, in (486) the cognate object of the denominal verb \(t\) ' \(a\)-la- 'walk along the fallen tree' (< \(t\) ' \(a\) : 'fallen tree') occurs within a postpositional phrase.
\begin{tabular}{lll} 
T'a & wei-le-ni & \(t ' a-l a-l i-e-n i\) \\
fallen.tree & on-LOC-3SG & fallen.tree-V-INC-PAST-3SG \\
oloxi.
\end{tabular}

Verbs derived from adjectives never require the repetition of the base adjective in a sentence.

Each suffix is normally used with a closed class of verbs.

\subsection*{8.1.1. Denominal derivation}

Typically, the noun from which the verb is derived corresponds to either a (direct) object or an instrument.

\subsection*{8.1.1.1. The suffix -mA-}

The suffix - \(m A\) - forms an intransitive verb with the prototypical meaning 'catch, hunt for' from a noun that names its object. This pattern is obviously restricted semantically, so in most cases only nouns that denote a potential object of hunting take this suffix.
\begin{tabular}{llll} 
sugdä: & 'fish' & sugdä:-ma- & 'fish' \\
l'asa & 'goby fish' & \begin{tabular}{l} 
l'asa-ma- \\
oloxi
\end{tabular} & 'squirrel' \\
oloxi-me- & 'catch goby fish' \\
olondo & 'ginseng' & olondo-mo- & 'hunt for squirrels' \\
a:nta & 'woman' & a:nta-ma- & 'womanize' \\
ila-ka & 'bast' & ila-ma- & 'bark lime-trees' \\
sine & 'mouse' & sive-me- & 'hunt for mice' \\
guese & 'pike' & guese-me- & 'catch pikes'
\end{tabular}

With some other nouns the same suffix is used when the base noun has an instrument role with respect to the action described by the derived verb (458a),
or when it has a different lexical meaning about which it is difficult to generalize (488b).
\begin{tabular}{lll} 
a. & dukta & 'ski' \\
to: & 'fire' \\
ikte & 'tooth' \\
& zege & 'reference- \\
b. & kakt'a & point' \\
& 'half' \\
& xoto(n) & 'city' \\
& a:da & \\
& & 'mountain \\
& pass'
\end{tabular}
\begin{tabular}{ll}
\begin{tabular}{l} 
dukta-ma- \\
to-mo- \\
ikte-me- \\
zege-me-
\end{tabular} & \begin{tabular}{l} 
'ski' \\
'warm on a fire'
\end{tabular} \\
'bite' \\
kakt'a-ma- & 'dientate oneself' \\
xoto-mo- & 'go to a city' \\
a:da-ma-si- & \begin{tabular}{l} 
'cross the mountain \\
pass'
\end{tabular}
\end{tabular}
8.1.1.2. The suffix \(-t A-,-d A-\)

Another suffix that derives verbs from nouns with an instrumental or related meaning is \(-t A-\) (489a) or \(-d A-(489 \mathrm{~b})\). The rules governing the distribution of these two variants are not clear.


\subsection*{8.1.1.3. The suffix -lA-}

A very frequent suffix - \(l A\)-incorporates into the verbal stem the noun that denotes a means employed for an action and has either a direct object (490a) or, more often, an instrumental meaning (490b). Some less predictable semantic results are also observed (490c).
(490)
\begin{tabular}{llll} 
a. anda & 'friend' & \begin{tabular}{l} 
anda-la- \\
au
\end{tabular} & 'cap' \\
aja & 'night shelter' & au-la- \\
ana-la- \\
sita & 'child' & sita-la- \\
abu & 'father' & abu-la-
\end{tabular}
'make friends'
'put a cap'
'make a night shelter'
'adopt'
'consider as a father'


Besides, the suffix -lA- is regularly hosted by verbal stems borrowed from Russian (1.5.2.2.1), and its function in this case is to adjust the Russian verb to the Udihe derivational system.

\subsection*{8.1.1.4. The suffix -li-}

The suffix -li- is specialized in marking the instrumental relationship between the base noun and the resulting verb, cf.:
(491) kuykai
sou \(\begin{aligned} & \text { 'jaws harp' } \\ & \text { scoop' } \\ & \text { soukkai-li- }\end{aligned} \quad\) 'play the jaws harp'
\(\begin{array}{llll}\text { sou } & \text { 'scoop' } & \text { sou-li- } & \text { 'scoop' } \\ \text { we: } & \text { 'mountain' } & \text { we:-li- } & \text { 'cross a mountain' }\end{array}\)

\subsection*{8.1.1.5. The suffix -si-}

This suffix is quite productive. It is available whenever the base noun signifies some kind of instrument. The instrumental suffix -si-additionally conveys the imperfective meaning (cf. the parallel deverbal derivation in 8.2.2.7). The corresponding verbs are aspectually opposed to the perfective verbs derived from the same nouns with the suffix -lA- (8.1.1.3): mäusa-la- 'shot (once)' and mäusa-si- 'be shooting'. Further examples are in (492).
\begin{tabular}{llll} 
(492) \begin{tabular}{lll} 
adili & 'net' & adili-si-
\end{tabular} & 'net' \\
gautu & 'hoe' & gautu-si- & 'use a hoe' \\
conki & 'tree juice' & conki-si- & 'collect tree juice' \\
dami & 'tobacco' & dami-si- & 'smoke' \\
okto & 'medicine' & okto-si- & 'get cured' \\
xaluga & 'hammer' & xaluga-si- & 'work with a hammer'
\end{tabular}

Examples of the non-instrumental meaning are:
\begin{tabular}{|c|c|c|c|c|}
\hline (493) & sul'ai & 'fox' & sul'ai-si- & 'lie' \\
\hline & amba & 'evil spirit' & amba-si- & 'be possessed' \\
\hline & tal'a & 'raw fish' & tal'a-si- & 'eat raw fish' \\
\hline & nakta & 'boar' & nakta-si- & 'play at being a boar' \\
\hline & ture & 'shaman pole' & tupe-si- & 'make a shaman pole' \\
\hline & songo & 'bear' & songo-si- & 'eat bear meat' \\
\hline & & & & (K 287) \\
\hline & ulikte & 'ritual lard' & ulikte-si- & 'play with ritual lard (of a shaman)' \\
\hline
\end{tabular}

This suffix is also attested in Schneider (1936) in the form -gAsi-: batu-gasi- 'go hunting' (derived from the verb batu- 'go hunting'), sunzu-gesi- 'offend, torture', teatri-gasi- 'act in a theatre' (teatri 'theatre'), cf. also mafa-g'asi- 'play bear hunting' (mafa 'bear') (SK 551) and bali-gasi- 'play blind man's buff' (bali 'blind').

\subsection*{8.1.1.6. The suffixes -ni- and -nisi-}

The suffixes \(-\eta i\) - or \(-\eta i s i\) - derive creation verbs from nouns that semantically function as an object of creation. They are exemplified in (494a) and (494b) respectively.
\begin{tabular}{lll} 
a. & xokto & 'road' \\
ogdö & 'coffin' \\
& momugu & 'firewood' \\
oño & 'ornament' \\
b. & co:lo & 'grass tent' \\
& cei & 'soup' \\
& kolo & 'mittens' \\
& suala & 'ski' \\
& zeu & 'food' \\
& site & 'child'
\end{tabular}
\begin{tabular}{|c|c|}
\hline xokto-ni- & 'make a road' \\
\hline dö-ni- & 'make a coffin' \\
\hline отиgu-ŋi- & collect firewood' \\
\hline oño-ŋi- & 'make ornaments' \\
\hline lo-yisi & 'build a grass tent' \\
\hline cei-nisi- & 'cook soup' \\
\hline kolo-yisi- & 'make mittens' \\
\hline suala-ทisi- & 'make a ski' \\
\hline zeu-yisi- & 'cook food' \\
\hline site-nisi- & 'hatch nestlings' \\
\hline
\end{tabular}
(SK 228)
\begin{tabular}{llll} 
lala & 'porridge' & lala- isisi- & 'cook porridge' \\
okto & 'medicine' & okto- isi- & \begin{tabular}{l} 
(Schneider 1937: 66) \\
'make some \\
medicine'
\end{tabular}
\end{tabular}

Some nouns allow two variants in the derivation of the verb of creation, with the suffix - \(\boldsymbol{\eta} i\) - and the suffix - \(\boldsymbol{\eta} \boldsymbol{i s i}\)-, for example:
au 'cap'
ana 'night shelter'
\begin{tabular}{|c|c|}
\hline \(a u-\eta i-\) & 'make a cap' \\
\hline au-pisi- & 'make a cap' \\
\hline \(a \eta a-\eta i-\) & 'build a night shelter' \\
\hline ana-yisi- & 'build a night shelter' \\
\hline
\end{tabular}

The element -si- within the suffix - \(\boldsymbol{\eta} i s i-\) is likely to be related to the imperfective verbal suffix -si- (8.2.2.7).

\subsection*{8.1.1.7. The suffix -nA-}

The resulting verb pertains to the acquisition of a particular state (normally of age).
\begin{tabular}{llll} 
sagdinta & 'old man' & sagdinta-na-gi- 'become old' \\
xatala & 'girl' & xatala-na- & 'become a girl' \\
ni: & 'man' & ni:-ne-gi- & 'come to life again' \\
lusa & 'Russian' & lusa-na- & 'become russified' \\
songo & 'bear' & songo-no- & 'become a bear' \\
mo: & 'tree' & mo:-no- & 'become a tree' \\
b'ata & 'boy, fellow' & b'ata-na- & 'become grown up \\
& & & (of a boy)' \\
ute & 'rotten wood' & ute-ne- & \begin{tabular}{l} 
'molder away, \\
become old'
\end{tabular}
\end{tabular}

This suffix also derives subjectless verbs that denote the appearance of a particular natural phenomenon. On subjectless constructions see 14.1.1 and 15.1.4.
\begin{tabular}{llll} 
(497) edi & 'wind' & edi-ne- & 'blow (of the wind)' \\
ima: & 'snow', & ima:-ne- & 'snow' \\
gäwa & 'dawn' & gäwa-na- & 'dawn' \\
tamna: & 'fog' & tamna:-na- & 'come (of fog)' \\
ñanma & 'cold' & nanma-na- & 'freeze' \\
sogdo & 'steam' & sogdo-no- & 'appear (of steam)' \\
sugala & 'northern wind' & sugala-na- & 'come (of the
\end{tabular}
\begin{tabular}{lll} 
jakpa & 'canyon' & jakpa-na(-gi)- \\
züö & 'southern wind' & züö-ne-
\end{tabular} \begin{tabular}{l} 
'appear (of a \\
canyon)'
\end{tabular}

\subsection*{8.1.1.8. The suffix -gi-}

The suffix -gi- is clearly identical etymologically to the repetitive suffix of the deverbal derivation (8.2.2.9). It also derives subjectless verbs from nouns with a meteorological or cyclic "calendar" meaning. The subject appears to be incorporated into the verbal stem. Examples are:
\[
\begin{array}{ll}
\text { poute-gi- } & \text { 'get dark' }  \tag{498}\\
\text { dogbo-gi- } & \text { 'come (of night)' } \\
\text { bolo-gi- } & \text { 'come (of autumn)' } \\
\text { tue-gi- } & \text { 'come (of winter)' } \\
\text { neki-gi- } & \text { 'come (of spring)' }
\end{array}
\]

\subsection*{8.1.1.9. The suffix -mu:i-}

The suffix -mu:i- is fairly productive. It express the meaning 'smell \(\mathbf{X}\) ' where \(\mathbf{X}\) corresponds to the base noun. Examples are presented in (499). Example (499b) shows the usage of such verbs.
\begin{tabular}{|c|c|c|c|c|}
\hline a. & sali & 'dead fish' & sali-mu:i- & 'smell dead fish' \\
\hline & sine & 'mouse' & sige-mu:i- & 'smell mice' \\
\hline & b'ata & 'boy' & b'ata-mu:i- & 'smell boys' \\
\hline & xuyna & 'mold' & xurna-mu:i- & \begin{tabular}{l}
'smell mold' \\
(K 307)
\end{tabular} \\
\hline & silie & 'gall' & lie-mu:i- & 'smell gall' (SKX 182) \\
\hline b. & Bi azi me gir 'I can sm & \begin{tabular}{l}
u:i-mi. SG \\
girls.'
\end{tabular} & & \\
\hline
\end{tabular}

Alternatively, the suffix -mu:i- may derive an unchangeable component of a complex predicate which co-occurs with the verb b'a-pta- 'smell' (from b'a- 'get' and -ptA-Decausative). This construction means 'it smells of', for example:
\(\begin{array}{lll}\text { a. } & \text { J'e-mi } \quad \text { aziga-mu:i } & \text { b'a-pta-ini? } \\ \text { what-INF girl-V } & \text { get-DEC-3SG } \\ \text { 'Why does it smell of girls?' (SKX 282) }\end{array}\)
b. Saŋña-mu:i-de smoke-V-FOC 'It doesn't smell of smoke.' (SKX 210)
b'a-pta. get-DEC

\subsection*{8.1.1.10. Rare suffixes}

Examples of non-productive rare suffixes of the denominal derivation of verbs are:
\[
-d i-,-z i-
\]
ogzo-di- 'drive away the evil spirit' (ogzo 'evil spirit'); kumu-di- 'look for fleas' (kumu 'flea'), ofo-di- 'pluck' (cf. ofo-kto 'feather'); songo-di- 'imitate a bear' (songo 'bear'), ceme-di- 'eat nuts' (ceme 'seed'), soydo-zi- 'be sinful' (sojdo 'sin') (SKX 388);
-(mu)ktA-
amu-kte- 'defecate' (amu 'excrement'); edi-mukte- 'be blown by the wind' (SK 1101) (edi ‘wind’);
-mule-
edi-mule- 'fly with the wind' (edi 'wind');
-fule-
xene-fule- 'kneel' (xeye 'knee');
- \(\boldsymbol{i t}\) ta-
lauzi-nita- 'take as a servant' (lauzi 'servant, farm worker') (SKX 320);
-gbi(le)-
\(j a:-g b i-\) 'start seeing, open eyes (for the first time)' (ja: 'eyes') (K 242), \(x u\)-gbi(le)- 'start smelling' (xu: 'smell'), texe-gbi- 'take root' (texe 'root').

\subsection*{8.1.2. Deadjectival verbs}

\subsection*{8.1.2.1. The suffix \(-n A-\)}

A fairly frequent suffix that derives verbs from adjectives is \(-n A\) - (sometimes in combination with the element -gi-). The derived verbs mean the acquisition of a quality or a state named by the base adjective.
\begin{tabular}{llll} 
(501) & sagdi & 'old' & sagdi-ne-gi- \\
baja & 'rich' & baja-na- & 'become old' \\
gabzi & 'cheerful' & gabzi-ne-gi- & 'become cheerful' \\
& manga & 'strong' & manga-na- \\
soligi & 'fair (of hair)' & soligi-ne- & 'become strong' \\
&
\end{tabular}
\begin{tabular}{llll} 
ede & 'weak' & ede-ne- & 'become weak' \\
wac'a & 'little' & wac'a-na- & 'become smaller' \\
c'aligi & 'white' & c'aligi-ne- & 'become white' \\
xutaligi & 'red' & xutaligi-ne- & 'become red' \\
xoligi & 'yellow' & xoligi-ne- & 'become yellow'
\end{tabular}

The same suffix also derives verbs from nouns (8.1.1.7).

\subsection*{8.1.2.2. The suffix -li-}

The suffix -li- expresses the beginning of the state described by the adjective (cf. the deverbal inchoative -li-, 8.2.2.1). Verbs in (502a) can take a subject; verbs in (502b) are subjectless.
\begin{tabular}{|c|c|c|c|c|}
\hline (502) a. & guači & 'bitter' & guači-li- & 'become bitter' \\
\hline & \(x u x i\) & 'smelling' & xuxi-li- & 'start smelling' \\
\hline & züi & 'sour' & zuii-li- & 'get sour' \\
\hline b. & ñamai & 'hot' & ñamai-li- & 'get warm' \\
\hline & xakti & 'dark' & xakti-li-(gi-) & 'get dark \\
\hline
\end{tabular}

\subsection*{8.1.2.3. Other suffixes}

Some suffixes used to make derivations from nouns (8.1.1) are also employed in the deadjectival derivation, for example:
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{3}{*}{manga
sagdi
umac'a} & 'strong' & manga-la- & 'get exhausted' \\
\hline & 'old, large' & sagdi-ni- & \multirow[t]{2}{*}{'get old'} \\
\hline & 'short' & umac'a-ทisi- & \\
\hline рои-pou & 'dark' & pou-te-gi- & 'get dark' \\
\hline diliga & 'foolish' & diliga-di- & 'do foolish things' \\
\hline \multirow[t]{2}{*}{\(g e:\)} & 'bad' & ge:-de- & 'feel bad' \\
\hline & & ge:- \(\quad\) nisi- & 'blame' (SK 266) \\
\hline gojou & 'crooked' & gojou-le- & 'make something crooked' \\
\hline \multirow[t]{2}{*}{ila} & 'three' & ila-u-gi- & 'do something \\
\hline & & & for the third time' \\
\hline xonto & 'another' & xonto-nisi- & 'transform' \\
\hline
\end{tabular}

\subsection*{8.2. Deverbal derivation}

Deverbal derivation of verbs typically involves a voice-related (8.2.1), an aspectual (8.2.2), or sometimes a modal (8.2.3) meaning. Some of the suffixes of deverbal derivation are very productive and attach to practically every verb. However, such suffixation lacks semantic regularity; it often results in unpredictable semantics, and therefore cannot be regarded as a grammaticalized process.

The deverbal affixes attach to a verbal stem in a particular order. With respect to their position in the verbal form five groups of affixes can be distinguished.
(504) I. Comitative, and Decausative
II. Durative, Semelfactive, and Singulative
III. Imperfective, Distributive, and Diversative
IV. Directive affix
V. other modal, Experiential, Reciprocal, Passive, and Causative

Within the verbal form the affixes from positional groups with a lower number are located to the left of those in the groups of a higher number. Typically, within a single word there are no more than two or three derivational affixes, and an affix from a group with a higher number cannot precede an affix from a group with a lower number.
(505) \begin{tabular}{ll} 
ikteme-'bite' & \begin{tabular}{l} 
ikteme-nde-si- 'bite a little many times' \\
Semelfactive II + Imperfective III
\end{tabular} \\
konko-'hit' & \begin{tabular}{l} 
konko-ndo-si- 'hit a little many times' \\
Semelfactive II + Imperfective III
\end{tabular} \\
wa- 'kill' & \begin{tabular}{l} 
way-na-sa- 'go to kill (at least on one occasion)' \\
Directive IV + Experiential V
\end{tabular} \\
mede- 'inform' \\
mede-mpe-ne- 'go to get informed' \\
Decausative I + Directive IV
\end{tabular}

Normally only one affix from each group is present in the word. However, sometimes two affixes from either group II, group III, or group V co-occur within one form.
(506) etige- 'jump' xetige-si-kte- 'jump many times (of several people)' Imperfective III + Distributive III
susa- 'escape' susa-kta-wasi- 'escape by running in different directions (of several people)'
Distributive III + Diversative III
bi- 'be' bi-we-kce- 'intend to cause to live'
Causative V + Intentional V
mamasala- 'marry' mamasala-wa-kca- 'intend to marry somebody' Causative V + Intentional V

Two suffixes (the Inchoative \(-l i\) - and the Repetitive \(-g i-\) ) do not belong to any positional group and tend to "float" in the word depending on their scope (8.2.2.9.3 and 8.2.2.1.2).

\subsection*{8.2.1. Valence-changing derivation}

Suffixation of voice or voice-like affixes changes the valence pattern of the base verb by adding a new argument or reducing existing arguments. The syntax of the voice-related constructions is described in section 16.1. Affixes that express voice distinctions are found within positional groups I and V in the word; that is, they occupy the leftmost (Decausative, Comitative) or the rightmost (Causative, Passive, Reciprocal) position among derivational morphemes. The following deverbal suffixes derive verbs with voice-like meanings.

\subsection*{8.2.1.1. Reciprocal}

Morphological Reciprocals are derived from a transitive and in some special cases from an intransitive base with the disharmonic suffix -masi- (3.5.1.2). The Reciprocal expresses a symmetrical situation, for at least two-place verbs. Reciprocalization causes a detransitivization of transitive verbs. On the syntax of the Reciprocal construction see 16.1.6.

\subsection*{8.2.1.1.1. Reciprocalization of the direct object}

Reciprocals can apparently be formed from most transitive verbs, if the reciprocalized direct object is animate (human). Thus the only constraint on reciprocalization is semantic.


\subsection*{8.2.1.2.2. Reciprocalization of other arguments}

A third argument of the transitive verbs (other than the direct object) is reciprocalized if it presupposes a human participant. The reciprocalized argument is usually Dative (508a), Lative (508b), or, less frequently, Ablative (508c), Locative (508d), or Instrumental (508e).
\begin{tabular}{|c|c|c|c|c|c|}
\hline (508) & a. & nexu- & 'bring to' & nexu-masi- & 'bring to each other' \\
\hline & & \(b\) & 'give to' & bu-masi & 'give to each other' \\
\hline & b. & jexe- & 'sing to' & jexe-masi- & 'sing to each other' \\
\hline & & kaja- & 'send to' & kaja-masi- & 'send to each other' \\
\hline & & teluru- & 'tell to' & teluru-masi- & 'tell to each other' \\
\hline & & xuli- & 'go to' & xuli-masi- & 'go to each other' \\
\hline & & dia- & 'say' & dia-masi- & 'talk to each other' \\
\hline & c. & gele- & 'ask from' & gele-masi- & 'ask from each other' \\
\hline & d. & moso- & 'fight with' & moso-masi- & 'fight with each other' \\
\hline & & xauntasi- & 'ask (about) & xauntasi-masi- & 'ask (about) from \\
\hline & & & from' & & each other' \\
\hline & & zima-si- & 'go on a visi & ' zima-si-masi- & 'go on a visit \\
\hline & & & & & to each other' \\
\hline
\end{tabular}

There seem to be no purely grammatical restrictions on reciprocalization. Not all intransitive verbs, however, reciprocalize, even if they involve animate participants and the corresponding reciprocal situation can be imagined. For example, morphological Reciprocals are not possible for the verbs nagda- 'get in' (Locative) and dekte- 'separate from' (Ablative): *nagda-masi-, *dekte-masi-. In general, the semantic condition on intransitive reciprocalization in Udihe is not entirely clear, but the restrictions do not seem to correlate directly with the argument/adjunct status of the secondary element involved in the reciprocal relationship.

\subsection*{8.2.1.1.3. One-argument verbs}

In some rare cases, one-argument verbs can undergo morphological reciprocalization with the suffix -masi-. The corresponding sentences do not have a reciprocal meaning in the regular sense, but rather describe an action that the two participants undertake alternately (509) or have a sociative meaning ('together'), as in (510).
a. Nua-ti etete-masi:-ti. he-3PL work-REC-3SG
'They alternate in their work (that is, one sleeps while the other works, and vice versa).'
b. Nua-ti utebe bagdi-si-masi:-ti. he-3PL so live-IM-REC-3PL 'They live at each other's place.'
(510) Teu-ni sauli-masi-li-e-ti. all-3SG have.feast-REC-INC-PAST-3PL
'All (of them) started having a feast.' (SKX 264)

\subsection*{8.2.1.2. Causative}

The affix -wAn-forms causative verbs that belong to morphonological class II (see 7.1). When class II verbs take the Causative suffix -wAn- two variants are possible: first, an epenthetic vowel may be inserted between the stem and the suffix (511a); second, the stem-final \(/ \mathrm{m} /\) may change into \(/ \mathrm{m} /\), while the Causative suffix appears in the form -uAn- (511b).
a. lagban-a-wan-<stick-0-CAUS>
b. lagbam-uan-<stick-CAUS>

The second option is the only one mentioned in Schneider (1936). Simonov and Kjalundzjuga (1998-1999: 515) record an intermediate variant lagbam-uwan-.

The causative derivation is absolutely regular and productive; there do not seem to be any semantic restrictions on the base verbs that allow causativization with the suffix -wAn-. It can be attached to any verb. It has a general causative meaning, that is, it introduces a new agent participant (the so-called "causer") but does not specify the type of causation. A non-productive Causative suffix -u- is addressed in 8.2.1.3.4. On the syntax of the Causative construction, see 16.1.4.

\subsection*{8.2.1.2.1. Single Causative}

Examples of Causatives:
\begin{tabular}{llll} 
a. \begin{tabular}{lll} 
etete- & 'work' & etete-wen-
\end{tabular} & 'cause to work' \\
su:le- & 'be sick' & su:le-wen- & 'make sick' \\
sono- & 'cry' & sono-won- & 'cause to cry' \\
tukti- & 'climb' & tukti-wen- & 'cause to climb' \\
sele- & 'wake up' & sele-wen- & 'wake somebody up' \\
zegde- & 'burn' & zegde-wen- & 'set fire' \\
i:n- & 'enter' & i:-wen- & 'let in'
\end{tabular}
\begin{tabular}{llll} 
b. \begin{tabular}{lll} 
jexe- & 'sing' & jexe-wen-
\end{tabular} & 'cause to sing' \\
nodo- & 'lose' & nodo-won- & 'cause to lose' \\
zawa- & 'take' & zawa-wan- & 'cause to take' \\
umi- & 'drink' & umi-wen- & 'cause to drink' \\
alasi- & 'wait' & alasi-wen- & 'cause to wait' \\
ise- & 'see' & ise-wen- & 'cause to see, show' \\
diga- & 'eat' & diga-wan- & 'cause to eat, feed' \\
sa:- & 'know' & sa-wan- & 'let know'
\end{tabular}

The Causative derivation from the intransitive verbs leads to transitivization (512a). However, Causative affixes attached to the null-argument meteorological verbs do not add a direct object (causee) valence, but only a causer valence that corresponds to a subject argument (see 14.1):
(513) tigde- 'rain' tigde-wen- 'make rain'

On the intransitive Causatives based on the decausative verbs see 8.2.1.3.1.

\subsection*{8.2.1.2.2. Double Causatives}

The only example found for the double Causative is nele-we-si-wen- 'cause to make afraid' <be afraid-CAUS-IM-CAUS>.

\subsection*{8.2.1.2.3. Causative -u-}

The non-productive Causative suffix \(-u\) - found in several verbs is etymologically related to the Passive affix (8.2.5.1). This suffix typically replaces the stem-final \(/ i /\) or \(/ e /\). Examples (514a) are attested in the modern Bikin dialect, examples (514b) are cited from Schneider (1936), Simonov, Kjalundzjuga, and Xasanova (1998), and Kormusin (1998) for the Northern dialect.



The Causative suffix - \(u\) - seems to precede other affixes of deverbal derivation in the verbal form. In this sense it is similar to the interclass derivation affixes, cf.:
```

    'feed (several animals)'
    <lap-CAUS-IM>
    sa-u-ne- 'go to inform'
    <know-CAUS-DIR>
    kes-u-li- 'start torturing'
    <suffer-CAUS-INC>
    sa-u-ne-gi- 'go to inform again'
    <know-CAUS-DIR-REP>
    eje-u-ke- 'make float' (SKX 224)
    <float-CAUS-INTN>
    ```

Note also that at least some verbs derived with the non-productive Causative \(-u\) - do not follow the regular syntactic pattern of the Causative constructions (16.1.4): as illustrated below, the second argument of the verb sa-u- 'let know, inform' is encoded by the Lative and not the Accusative.
'Ain-tigi:
brother-LAT.1SG
'Inform my brother.'
sa-u-je.
know-CAUS-IMP.2SG

\subsection*{8.2.1.3. Decausative}

The Decausative is formed with the suffixes \(-p t A-/-k t A\) - and \(-k p i\) - from transitives. The Decausative derivation reduces the valence pattern of the base transitive verbs by detransitivizing them. It is not productive and applies only to a closed class of verbs. The syntactic aspect of the Decausative construction is discussed in 16.1.5.

According to Schneider (1936: 141), the element -tA- within the Decausative (Reflexive in his terms) suffix -ptA- is in fact a Present tense suffix, and apparently (although Schneider does not cite examples for this) it is not present in
other temporal forms. Even if this account is valid historically, in the modern language the suffix -ptA- cannot be further segmented and appears in all tenses, as far as our material shows.

Note that reflexive verbs do not have any special morphological marking in Udihe, cf. asikta- 'to undress (oneself)', sele- 'to wake up', and digene- 'to hide oneself'.

\subsection*{8.2.1.3.1. Decausative meaning}

Normally the affixes -ptA- and -ktA- vary freely, for example: ise-pte- and ise-kte'be seen' (see 2.2.4.1 for phonetics). From some verbs two decausative verbs are derived, apparently with the same meaning, one with the affix -ptA-I-ktA- and another with the affix -kpi-, as shown in (517a). Other verbs (517b) allow only one formal type of the Decausative, either with \(-p t A-1-k t A-\) or with \(-k p i-\). In the examples below only the -ptA- variation is shown. However, in practically every case a counterpart with \(-k t A\) - is also possible.


An example of the decausativization of the causative verbs is in (518a) and examples of the causativization of the Decausatives are (518b) and (518c). In the latter case the resulting verb is intransitive but conveys an additional meaning 'appear'.
a. sa:-
sa-u-
sa-u-pte-
b. mantila-
mantila-pta-
mantila-pta-wan-
c. ise-
ise-kte-
ise-kte-wen-
```

'know'
'let know, inform' <see-DEC>
'be known' <know-CAUS-DEC>
'spill (transitive)'
'spill (intransitive)' <spill-DEC>
'appear to be spilled' <spill-DEC-CAUS>
'see'
'be seen' <see-DEC>
'appear' <see-DEC-CAUS>

```

\subsection*{8.2.1.3.2. Middle meaning}

Some verbs with Decausative suffixes have a middle meaning: the process they describe occurs without an external agent argument. For these verbs a corresponding non-derived base verb either does not exist, as shown in (519a), or is intransitive, as in (519b).
a. zala-pta- 'bend' (intransitive) ze-pte- 'eat greedily (German fressen)'
b. \(\tilde{n} a\) :
ŋиа
'get rotten'
'sleep'
ña-pta-
ŋua-pta-
'turn sour'
'feel sleepy'

\subsection*{8.2.1.3.3. Inchoative Decausative}

The suffix -gA-derives a Decausative counterpart of the transitive verbs with the Inchoative suffix -li- (see 8.2.2.1), while there is no morphologically unmarked counterpart. The Decausative verb also has the inchoative meaning; that is, it expresses the beginning of a particular state caused by the event signified by the corresponding transitive verb.
guza-li
bukta-li
xudu-li
\[
\begin{align*}
& \text { 'tear' }  \tag{520}\\
& \text { 'break in two' } \\
& \text { 'dislocate' }
\end{align*}
\]
guza-ga
'get torn'
bukta-ga-xudu-ge-
'get broken in two' 'get dislocated'

\subsection*{8.2.1.4. Comitative}

The Comitative suffix -nina-indicates that the action is performed by at least two equally involved participants together. The comitative verbs, therefore, take only Plural agreement affixes and normally co-occur with the subject in the Plural. The comitative suffix is normally followed by the Imperfective affix -si- (8.2.2.7). Examples for the \(3^{\text {rd }}\) person Plural are:
\begin{tabular}{|c|c|}
\hline gusi-nipa-si--ti & 'they play together' \\
\hline <play-COM-NUL-3PL> & \\
\hline dian-a-nina-si-li-e-ti & 'they started talking together' \\
\hline <say-0-COM-INC-PAST & 3PL> \\
\hline sojo-nipa-si:-ti & 'they cry together' \\
\hline jexe-nina-si:-ti & 'they sing together' \\
\hline umi-nina-si:-ti & 'they drink together' \\
\hline oño-nipa-si:-ti & 'they write together' \\
\hline ise-nina-si:-ti & 'they look together' \\
\hline te-nipa-si:-ti & 'they sit together' \\
\hline kakci-nina-si--ti & 'they fry together' \\
\hline tani-nina-si:-ti & 'they read together' \\
\hline
\end{tabular}

The affix -nin \(A\) - is etymologically related to the Collective affix employed for some quantifiers (11.1.3).

\subsection*{8.2.1.5. Passive}

\subsection*{8.2.1.5.1. Derivation}

The passive derivation is marked by the suffix -u- (formally identical to the unproductive Causative marker, 8.2.1.3.4). When the suffix -u-follows a vowel-final verbal stem it forms a vowel cluster with the stem-final vowel (522a). In the pronunciation of some speakers the vowel cluster tends to be avoided, and is prevented by an epenthetic \(/ w /\) (522b), see 3.2.3. In other idiolects the cluster contracts into a long /u:/, especially when speaking quickly, as shown in (522c). For \(n\)-final verbs the Passive suffix induces the alternation \(/ n / \rightarrow / m /\) (522d).
\begin{tabular}{llll} 
a. \begin{tabular}{lll} 
ana- & 'push' & ana-u-
\end{tabular} & 'be pushed' \\
ise- & 'see' & ise-u- & 'be seen' \\
wa:- & 'kill' & wa-u- & 'be killed'
\end{tabular}
\begin{tabular}{llll} 
d. & dian- & 'say' & diam-u-
\end{tabular}\(\quad\) 'be said',

When the Past tense suffix follows the Passive morpheme \(-u\)-, the latter changes into \(-w\) - in the intervocalic position (see 3.2.3), as in (523a) The non-intervocalic \(-u\) - is preserved (523b), while the long -u:- gets shortened (523c). Thus in the Past, as in the Present, various free and idiolectal variations occur.


The passive form of the verb wa- 'kill' may be wu:- (< wa-u-) in the pronunciation of some speakers.

In the linear order of derivational morphemes the Passive suffix belongs to the positional group V, cf. zawa-gi-w-o:-ni 'was taken back' <take-REP-PAS.PAST-3SG>. Yet, in at least two examples in our corpus it precedes an aspectual marker, the Inchoative suffix (524a) and the Experiential suffix (524b), which reflects the scope relationship between them.
a. Ele nada koto-du diga-u-li-e-mi.
soon seven bald-DAT eat-PAS-INC-PAST-1SG
'Soon the seven bald ones will start eating me.' (literally: soon I will start being eaten by seven bald men)
b. dogbo-u-se:-ni
night-PAS-EXP.PAS-3SG
'he has waited for the night to come' (SKX 182)
The order of the Passive and the Causative affix typically depends on the order in which the syntactic derivation takes place. In (525a) passivization "precedes" causativization, and in (525b) the relationship is the reverse.
a. \(\begin{aligned} & \text { ña:ma-u-wan- } \\ & \text { <curse-PAS-CAUS> }\end{aligned}\)
oño-u:- \(\eta\)-, oño-u-wen-
<write-PAS-CAUS>
b. eme-wen-e-u-
<come-CAUS-0-PAS>
'cause to be cursed'
'cause to be written'
'be sent' (SKX 308)
ende-wen-e-u- 'be touched' (SK 151)
<touch-CAUS-0-PAS>
However, this does not always hold; oño-u:- \(\eta\) - may also mean 'be caused to write'. Some sentence examples are cited in 6.1.4.4.

\subsection*{8.2.1.5.2. Function}

The passive derivation applies to transitive verbs. On the syntax of the Personal Passive construction see 16.1.1.

At least four passive verbs lack non-passive counterparts, these are dogbo-u'be caught by the night', sikie-u- 'be caught by the evening', tigde-se-u- 'be caught by rain', and gekti-u- 'be frozen', for example:
a. dogb-u-o:-mi 'I was caught by the night'
<night-PAS-PAST-1SG>
dogb-u-o:-mu 'we were caught by the night'
<night-PAS-PAST-1PL.EX>
b. sikie-u-ini 'he is caught by the evening'
(Schneider 1936: 65)
<evening-PAS-3SG>
c. Tonofo gekti-w-o:-ni.
pond freeze-PAS-PAST-3SG
'The pond got frozen.'
These verbs are obviously derivationally related to the null-argument meteorological verbs dogbo- 'come (of night)', sikie- 'come (of evening)', tigde- 'rain', and gekti- 'freeze' (cf. also the one-argument verb gekti- 'get frozen' used about non-natural objects) that conjugate as non-passive verbs (14.1). However, they lack non-passive transitive counterparts with the same meaning such as *'catch somebody (of night)' or *'freeze somebody'. Thus the passive derivation opens one additional valency for these verbs. The corresponding passive verbs take exclusively animate subjects (cf. adversative constructions in the related language Even, discussed in Malčukov (1995: 2126)).

\subsection*{8.2.2. Aspectual derivation}

Aspectual (Aktionsarten) suffixes express various aspectual modifications of the initial verb. They are not grammaticalized to the same extent as the regular aspectual distinctions, such as Progressive or Habitual, which can be derived from virtually all verbs. Aspectual suffixes produce different semantic results
depending on the semantic type of the base verb (telic vs. atelic, etc.) and normally only attach to a restricted class of verbs. They do not change the valence pattern of the verb.

As noted in 8.2, positional group II includes Durative, Semelfactive, and Singulative aspectual affixes. These affixes are therefore found directly after the verbal stem (or after interclass derivation affixes). The affixes of this group express the internal structure of the event to which the corresponding verb refers. Positional group III includes Diversative, Imperfective, and Distributive affixes. They all involve some kind of quantification of the situation. The Experiential suffix belongs to positional group V.

\subsection*{8.2.2.1. Inchoative}

The Inchoative affix -li- is fairly productive. Inchoative verbs can form a periphrastic construction of Immediate Future (7.10.2). Inchoative verbs in the Past are negated in two formally different ways depending on the scope of the negation (22.3.2.1.2).

\subsection*{8.2.2.1.1. Inchoative meaning}

Inchoative applies to the atelic verbs that denote an unbounded situation (a state or activity). The output of this operation expresses the bounding of the situation by indicating its starting point (527a). When applied to telic verbs, the Inchoative rather adds the meaning of expectation about the near future and the internal ability to perform the corresponding action (527b).
\begin{tabular}{lllll} 
a. & nousi- & 'smell' & nousi-li- & 'start smelling' \\
\\
tukti- & 'climb' & \begin{tabular}{l} 
tukti-li-
\end{tabular} & \begin{tabular}{l} 
'start climbing'
\end{tabular} \\
& ine- & 'dawn' & ine-li- & 'start dawning'
\end{tabular}

\subsection*{8.2.2.1.2. Position of the Inchoative suffix in the word}

The Inchoative affix -li- in a word normally follows the affixes from positional groups I (528a), II (528b), and III (528c).
a. ise-pte-li- 'start being seen'
<see-DEC-INC>
b. ise-kce-li- 'start looking (for a long time)'
<see-DUR-INC>
c. jeukte-si-li- 'start checking'
<check-IM-INC>
The mutual position of the Inchoative affix -li- and the Repetitive and the Causative suffixes depends on the scope of the Inchoative affix.
a. eme-gi-li-
'start coming back'
<come-REP-INC>
eme-wen-e-li-
'start causing to come'
<come-CAUS-0-INC>
tati-wan-a-li-
'start teaching'
<teach-CAUS-0-INC>
b. ise-pte-li-gi-wen-
'make it start being seen again'
<see-DEC-INC-REP-CAUS>
zegde-li-wen-
'cause to start burning'
<burn-INC-CAUS>

In (529a) the affix -li- takes scope over other affixes and occupies the rightmost position in the word; in (529b) the situation is the opposite.

\subsection*{8.2.2.2. Semelfactive}

The Semelfactive is built by means of the suffix -ndA-. Normally psych-verbs and verbs of emotions, such as aju- 'love', galu- 'hate', agda- 'be happy', etc., are not compatible with the Semelfactive affix -ndA-. The Semelfactive has several meanings.

\subsection*{8.2.2.2.1. Attenuative meaning}

The Semelfactive expresses that the action is only performed with a limited intensity and/or for a limited duration by bringing about meanings like 'a little, slightly, for a while', etc.
\begin{tabular}{llll} 
(530) \begin{tabular}{lll} 
zawa- & 'take' & zawa-nda- \\
xetige- & 'jump' & xetige-nde-
\end{tabular} \begin{tabular}{l} 
'touch a little' \\
tokto-
\end{tabular} 'hit' & tokto-ndo- a little' \\
akpu- & 'sweep' & akpu-nde- a little' & 'sweep a little' \\
belesi- & 'help' & belesi-nde- & 'help a little'
\end{tabular}
\begin{tabular}{lll} 
eme- & 'come' & eme-nde- \\
bi- & 'be' & bi-nde-
\end{tabular}

Attaching the suffix -ndA to the verb in the Imperative serves to soften the tone of the request, for example:
(531) Ag'a, düisi-nde j'eu nixe-ini ba:-la.
brother listen-SEM what do-3SG place-LOC
'Brother, please listen to what is going on outside.' (K 160)

\subsection*{8.2.2.2.2. Semelfactive meaning}

When hosted by transitive verbs the Semelfactive suffix expresses a small amount of the affected object:
\[
\begin{array}{llll}
\text { tama- } & \text { 'pay' } & \text { tama-nda- } & \text { 'pay a little' }  \tag{532}\\
\text { b'a-gi- } & \text { 'find' } & \text { b'a-gi-nde- } & \text { 'find a few things' }
\end{array}
\]

\subsection*{8.2.2.2.3. Punctual meaning}

On rare occasions the Semelfactive may express a punctual meaning ('at once').
(533) simpi- 'sneeze’ simpi-nde- 'sneeze at once'

\subsection*{8.2.2.3. Singulative}

The Singulative affix -lA- emphasizes that an action took place only once. It is only compatible with telic verbs that denote an internally bound event.
tipme- 'fall down
ikteme- 'bite'
xaluga- 'hit (with a hammer)'
tinme-le- 'fall down once'
ikteme-le- 'bite once'
xaluga-la- 'hit once with a hammer'

\subsection*{8.2.2.4. Durative}

The suffix \(-k c A\) - expresses the durative meaning. Prototypically, it denotes an action or state that is perceived as a protracted process, lasting for a considerable length of time. Obviously, such a meaning is possible only with atelic verbs. The Durative does not apply to Semelfactive and Singulative verbs.
\begin{tabular}{llll} 
umi- & 'drink' & umi-kce- & 'drink for a long time' \\
uli- & 'sew' & uli-kce- & 'sew for a long time' \\
tukti- & 'climb up' & tukti-kce- & 'climb up for a long time' \\
yousi- & 'smell' & nousi-kce- & 'smell for a long time' \\
cudi- 'water' & cudi-kce- & 'water for a long time' \\
uli- & 'sew' & uli-kce- & 'sew for a long time' \\
diga- 'eat' & diga-kca- & 'eat for a long time'
\end{tabular}

The Durative suffix is historically present in the word wa-kca- 'hunt' (from wa:'kill'), lexicalized in the modern language.

The Durative Infinitive regularly functions in certain types of complement embedded clauses (see 20.1).

\subsection*{8.2.2.5. Diversative}

The Diversative is marked by the non-harmonizing suffix -wasi- (3.5.2).

\subsection*{8.2.2.5.1. Variations in class II verbs}

The class II verbs exhibit free variation in the formation of the Diversative. They may demonstrate the following sound change: \(n+\) wasi \(\rightarrow\) masi. Thus, the Diversative suffix is for them homonymous with the Reciprocal (8.2.1.1). This option is illustrated in (536a). Alternatively, the Diversative -wasi- may attach to the \(n\)-final stem augmented with the epenthetic vowel, as in (536b).
> wajan- 'swim’
> a. waja-masi- 'swim in different directions' <swim-DIV>
> b. wajan-a-wasi- 'swim in different directions' <swim-0-DIV>

\subsection*{8.2.2.5.2. Function}

The Diversative is mostly compatible with motion verbs (all the examples present intransitive verbs) when it expresses (disorderly) movement oriented in various directions (537a). Diversative verbs other than verbs of movement express several identical situations that involve different participants, and probably take place in many different ways, or in different locations (537b).
\begin{tabular}{llll} 
a. pama- & 'get lost' & \begin{tabular}{l} 
pama-wasi- \\
tukä-
\end{tabular}\(\quad\) 'run' & tukä-wasi-
\end{tabular}
\begin{tabular}{llll} 
xuli- & 'walk' & \multicolumn{2}{l}{\(\begin{array}{l}\text { directions or around something' } \\
\text { xuli-wasi- }\end{array}\)} \\
susa- & 'escape' & \(\begin{array}{l}\text { directions' } \\
\text { susa-wasi- } \\
\text { directions' }\end{array}\) & 'walk in different
\end{tabular}\(] \quad\) 'escape in different

Examples of the use of the Diversative are:
\begin{tabular}{llll} 
a. & Bi & xunazi-le-i & eku-wasi-e-mi, \\
& me & sister-LOC-REF & stay-DIV-PAST-1SG \\
& sita-la-i & eku-wasi-e-mi. & \\
& son-LOC-REF & stay-DIV-PAST-1SG
\end{tabular}

\subsection*{8.2.2.6. Distributive}

Distributive suffixes typically express several instances of a situation within one period of time.

\subsection*{8.2.2.6.1. Distributive -nA-}

The domain of application of the Distributive suffix \(-n A-\) is restricted to intransitive verbs. In particular, it regularly applies to the inchoative decausative verb (8.2.1.3.3). It expresses plurality of subjects, or multiple occurrence of the action on the whole (surface) of one object, and in this sense the resulting verbs may be ambiguous.
\begin{tabular}{lll} 
tipme- & 'fall down' & \begin{tabular}{l} 
tipme-ne- 'fall down \\
(of several objects)'
\end{tabular} \\
bukta-ga- & 'break' & \begin{tabular}{l} 
bukta-ga-na- 'break (of several \\
objects)' or 'break in several places'
\end{tabular} \\
guza-ga- & 'get torn' & \begin{tabular}{l} 
guza-ga-na- 'get torn (of several \\
objects)' or 'get tom in several places'
\end{tabular} \\
kakta-ga- & 'crack' & \begin{tabular}{l} 
kakta-ga-na- 'crack (of several \\
objects)' or 'crack in several places'
\end{tabular}
\end{tabular}

For example:
a. Mo: kakta-ga-na:-ni.
tree crack-DEC-DIST.PAST-3SG
'The tree cracked in several places.'
b. Zanza teu tiyme-ne-ini.
fence all fall-DIST-3SG
'The fence is all falling down.'
On rare occasions -nA- signifies plurality of the subject: bagdi-ne-gi-e-ti 'they returned to where they lived' <live-DIST-REP-PAST-3PL> (SKX 212) or has an imperfective meaning: onmo-no- 'often forget' (onmo- 'forget'). When combined with the Imperfective -si- it creates a complex affix -nAsi-: um-nesi- 'drink (constantly)' (cf. umi- 'drink'); xuai-nasi- 'cut in several pieces' (SK 1002) (cf. xuai- 'cut').

\subsection*{8.2.2.6.2. Distributive -ktA-}

The suffix \(-k t A\) - is the most frequent Distributive suffix. It signifies that the situation involves several subject participants. The verb takes Plural agreement, so plurality is marked twice on the verb although the nominal Plural suffixes are not obligatory (see 4.2.1.2).
\begin{tabular}{llll} 
(541) eme- & 'come' & eme-kte- & 'come (of several people)' \\
bude- & 'die' & bude-kte- & 'die (of several people)' \\
gusi- & 'play' & gusi-kte- & 'play (of several people)' \\
deu- & 'get tired' & deu-kte- & 'get tired (of several people)' \\
do:- & 'perch' & do-kto- & 'perch (of several birds)'
\end{tabular}

The following examples illustrate this Distributive suffix encoding plurality of subjects.
\begin{tabular}{lllll} 
a & \begin{tabular}{ll} 
Abuga-da & anči \\
father-FOC & no
\end{tabular} & \begin{tabular}{l} 
enipe-de \\
mother-FOC
\end{tabular} & \begin{tabular}{l} 
anči \\
no
\end{tabular} & teu \\
all
\end{tabular} bude-kte:-ti. die-DIST.PAST-3PL
'No father, no mother, everybody died.'
b. Mogz'oi susa-kta:-ti gektin-zi naked escape-DIST.PAST-3PL bude-kte:-ti. die-DIST.PAST-3PL
'The naked (people) escaped and died from the cold.' (K 136)
The same affix may sometimes denote a plurality of objects: eje-u-kte- 'make many objects float' <float-CAUS-DIST> (SK 1116).

\subsection*{8.2.2.7. Imperfective}

For class II verbs the Imperfective suffix -si- is attached to the vowel-final stem, while the stem-final \(/ n /\) is dropped, cf.:
sa-
sa-wan-
sa-wa-si-
\[
\begin{align*}
& \text { 'laugh' }  \tag{543}\\
& \text { 'make laugh' } \\
& \text { 'make laugh (IM)' }
\end{align*}
\]

The Imperfective has a wide range of meanings depending on the semantics of the initial verb.

\subsection*{8.2.2.7.1. Continuous meaning}

For atelic verbs the Imperfective normally has a continuous meaning, that is, denotes a process in progress. In (544a) examples of a class I verb and examples (544b) of class II verbs are presented:
\begin{tabular}{llll} 
a. \begin{tabular}{lll} 
sono- \\
oño-
\end{tabular} & \begin{tabular}{l} 
'cry' \\
'write, decorate'
\end{tabular} & \begin{tabular}{l} 
sono-si- \\
oño-si-
\end{tabular} & \begin{tabular}{l} 
'be crying' \\
'be making \\
ornaments'
\end{tabular} \\
b. olokto- & 'cook' \\
dawan- & 'infect' & \begin{tabular}{l} 
olokto-si- \\
nele-wen-
\end{tabular} & \begin{tabular}{l} 
'frighten'
\end{tabular} \\
& & \begin{tabular}{l} 
dawa-si- cooking' \\
nele-we-si-
\end{tabular} & \begin{tabular}{l} 
'be infecting' \\
'be \\
frightening'
\end{tabular}
\end{tabular}

See also the examples in (545).
\begin{tabular}{llll} 
zawa- & 'take' & zawa-si- & 'hold' \\
ise- & 'see' & ise-si- & 'look'
\end{tabular}

\subsection*{8.2.2.7.2. Multiplicative meaning}

When applied to telic verbs the Imperfective suffix typically licenses the multiplicative meaning: it denotes that the situation is repeated several times, typically with the same participants.
(546) mägdagi- 'wake up’ mägdagi-si- 'wake up several
\begin{tabular}{llll} 
nagda- & 'guess; hit' & \begin{tabular}{l} 
nagda-si- \\
digaa-si-
\end{tabular} & \begin{tabular}{l} 
'hit several times'
\end{tabular} \\
digan- & 'talk' \\
xuine- & 'div' & \begin{tabular}{l} 
dive' \\
xuine-si-
\end{tabular} & 'dive several times'
\end{tabular}

\subsection*{8.2.2.7.3. Distributive meaning}

The Imperfective suffix -si- may also express several instances of a situation involving multiple participants, either subjects (547a) or objects of transitive verbs (547b).
\begin{tabular}{lllll} 
a. & camna- & 'break' & camna-si- & \begin{tabular}{l} 
'break (of several \\
things)'
\end{tabular} \\
& tipme- & 'fall' & tipme-si- & \begin{tabular}{l} 
'fall (of several \\
people)'
\end{tabular} \\
b. & nodo- & 'lose' & nodo-si- & \begin{tabular}{l} 
'lose many things'
\end{tabular} \\
& kakpali- & 'open (a jar)' & kakpali-si- & 'open (several jars)'
\end{tabular}

Thus, for transitive verbs ambiguity between different meanings may arise, cf. teti-si- 'dress many children' or 'dress one child many times' (from teti- 'dress'). Examples of the suffix -si- expressing plurality.
a Ni:-we wa:-si-se.
man-ACC kill-IM-PP.PAS
'Several people are killed.'
b. Mo:-wo anana tugbu-si-se. tree-ACC long.ago cut-IM-PP.PAS 'The trees were cut a long time ago.'

\subsection*{8.2.2.8. Repetitive}

The Repetitive affix -gi- is fairly productive in its repetitive meaning (8.2.2.8.1). Class II verbs demonstrate the contraction of the stem-final \(/ n /\) with the suffix-initial consonant \(/ g /\), so the Repetitive suffix has the form - \(\eta i\)-.
\begin{tabular}{ll} 
xektin- & 'jump', \\
i:n- & 'reach' \\
ejen- & 'float downstream' \\
ilaktan- & 'appear'
\end{tabular},\(\quad l\)
\begin{tabular}{ll} 
xekti- \(\eta i-\) & \begin{tabular}{l} 
'jump back' \\
i:- \(\eta i-\)
\end{tabular} \\
'reach on the way
\end{tabular}

\subsection*{8.2.2.8.1. Repetitive meaning}

Typically, the Repetitive verb expresses the meaning 'again' or 'one more time' for both telic and atelic verbs. Yet, it does not seem to be compatible with stative psych-verbs. Combined with negation it means either 'nevermore' or 'no longer'.
\begin{tabular}{llll} 
xauntasi- & 'ask' & xauntasi-gi- & 'ask again' \\
nodo- & 'lose' & nodo-gi- & 'lose again' \\
deu- & 'get tired' & deu-gi- & 'get tired again' \\
tukti- & 'climb up' & tukti-gi- & 'climb up again' \\
nodo- & 'lose' & nodo-gi- & 'lose again' \\
nua- & 'sleep' & nua-gi- & 'sleep again'
\end{tabular}

The Repetitive suffix is regularly used with verbs that denote putting on or taking off clothes or shoes (in this case these are clothes that have already been worn at least once, that is, are not new), as in (551).
\[
\begin{array}{lll}
\text { aula- } & \text { 'put on a cap' } & \text { aula-gi- }
\end{array} \begin{aligned}
& \text { 'put on a cap' }  \tag{551}\\
& \text { lukta }
\end{aligned} \text { 'take off clothes' } \quad \text { lukta-gi- } \quad \text { 'take off clothes' }
\]

The verb bagdi- 'live' augmented by the Repetitive suffix -gi- means 'be born' (bagdi-gi-).

\subsection*{8.2.2.8.2. Regressive meaning}

The repetitive verbs can mean returning to the previous stage (552a) or movement towards home (552b). This demonstrates that the situation described by the verb with the Repetitive suffix -gi- does not have to double completely the previous situation and its participants.
\begin{tabular}{llll} 
a. zawa- & 'take' & zawa-gi- & 'take back' \\
tama- & 'pay' & tama-gi- & 'pay debts' \\
te:- & 'sit down' & te-gi- & 'sit up'
\end{tabular}

\subsection*{8.2.2.8.3. Position of the Repetitive suffix in the word}

The Repetitive suffix follows most other derivational suffixes, for example, the Directive (553a), and the Semelfactive (553b). The mutual order of the Directive and the Repetitive suffixes is not influenced by their scope, for example egbesi-ne-gi- means both 'go again to swim' or 'go to swim again'.

However, the Repetitive precedes the suffixes from positional group V (modal and Causative suffixes), cf. (553c).
\begin{tabular}{|c|c|c|}
\hline \multirow[t]{2}{*}{a.} & \begin{tabular}{ll} 
etete- \\
ise- & 'work' \\
'see'
\end{tabular} & \begin{tabular}{l}
etete-ne-gi- 'go to work again' \\
ise-ne-gi- 'go to see again'
\end{tabular} \\
\hline & galakta- 'search' & galakta-na-gi- 'go back to search' \\
\hline b. & simi- 'suck' & simi-nde-gi- 'suck a little again' \\
\hline \multirow[t]{13}{*}{c.} & tigde-gi-kce-<rain-REP-INT> & 'the rain starts and stops again' \\
\hline & tukä-gi-mu:i- & 'want to run back' \\
\hline & <run-REP-DES> & \\
\hline & ili-gi-kce- & 'intend to get up' \\
\hline & <stand-REP-INT> & \\
\hline & ne-gi-kce- & 'intend to put back' \\
\hline & <put-REP-INT> & \\
\hline & ikteme-le-gi-wen- & 'again cause somebody to bite once \\
\hline & <bite-SING-REP-CAUS> & \\
\hline & lagba-yi-wen- & 'cause to glue something again' \\
\hline & <stick-REP-CAUS> & \\
\hline & bu-gi-wen- & 'cause to give back' \\
\hline & <give-REP-CAUS> & \\
\hline
\end{tabular}

If the scope of the repetitive meaning is wider than the scope of the modal meaning, the only possibility to express this situation is with an additive focus particle (Chapter 12).

Xai tukä-mu:i-mi
again run-DES-1SG
'I want to run again.'
When the scope relationship between two suffixes is irrelevant, both orders are equally possible (555a). Thus, the Imperfective suffix -si- either precedes or follows the Repetitive (555b).
a. eme-kte-gi- 'come again/back (of several people)' <come-DIS-REP> eme-gi-kte- 'come again/back (of several people)' <come-REP-DIS>
b. uli-si-gi- 'sew many times again and again' <sew-IM-REP> mägda-gi-si- 'wake up again many times' <wake.up-REP-IM> tagdi-gi-si- 'pull out again many times' <pull.out-REP-IM>

\subsection*{8.2.2.9. Experiential}

The only aspectual suffix that belongs to positional group V is the Experiential suffix -sA-

\subsection*{8.2.2.9.1. Function}

Experiential verbs express the notion that the event occurred at least once in the past. Consequently the experiential verbs are used only in the Past tense or the Perfect; the Present and Future forms are not acceptable, cf.:
a. Lali-mi-de
gekti-mi-de
bude-se:-i
starve-INF-FOC gun-e-mi.
say-0-1SG
'I thought you had died from hunger and cold.' (SKX 82)
b. Bi Iwana-wa b'agdi-se:-mi me Ivan-ACC meet-EXP.PAST-1SG '(Once) I met Ivan.'
\(\begin{array}{llll}\text { c. } \begin{array}{lll}\text { Nua-ni } & \text { wa:tani } & \text { xuli-s'e } \\ \text { he-3SG } & \text { just } & \text { come-EXP.PERF }\end{array} & \text { gene:-ni. } \\ & \text { go.PAST-3SG }\end{array}\) 'He has just come and gone.'
d. Bi xaundasi-na-sa:-mi.
me ask-DIR-EXP.PERF-1SG
'I was going to ask.'
e. Bi eme-gi-si: me come-REP-PC.1SG xuli-se:-ni go-EXP. PAST-3SG
nua-ni
he-3SG
xeleba-wa bread-ACC
magazina-tigi
shop-LAT
ganga-sa:-ni.
buy-EXP.PAST-3SG
'When I came back he had already gone to the shop and had bought some bread.'

The examples below demonstrate the negative forms of verbs derived with the Experiential suffix, which adds the semantic component 'never before'.
(557)
a.
\begin{tabular}{ll}
Bi & ali-de \\
me & when-IND
\end{tabular}
\(e-s i-m i\)
xuli-se
NEG-PAST-1SG go-EXP Moskva-la. Moscow-LOC 'I have never been to Moscow.'
b. \(\begin{aligned} & \text { Bi nua-ni } \\ & \text { me he-3SG } \\ & \text { dogdi-gi-se. } \\ & \text { hear-REP-EXP }\end{aligned}\)
'Since he left, I have not heard of him again.'

\subsection*{8.2.2.9.2. Regressive meaning}

Schneider (1936) cites examples of the regressive meaning of the suffix -sA-: when it denotes movement in reverse following the completion of a corresponding action.
(558) nexu- 'take away' nexu-se- 'come back after having taken away' ilama- 'bark a tree' ilama-sa- 'come back after having barked a tree'

Such a meaning of the suffix -sA- is not attested in modern Udihe. It may have been a misinterpretation by Schneider of the experiential meaning. However, it might arise as an accessory when the experiential suffix co-occurs with the Directive \(-n A-(8.2 .3 .1)\) within the same word, cf.:
a. gegbe-gegbe-ne-gegbe-ne-se'collect'
'go to collect'
'come back after collecting
(for example, mushrooms)'
b. wakca-wakca-na-wakca-na-sa-
c. zawa-zawa-na-zawa-na-sa-
'hunt'
'go to hunt'
'come back after hunting'
'take'
'go to take'
'come back after taking'

\subsection*{8.2.2.10. Intensive}

The intensive suffixes are available but are fairly rarely used. They are not easily combined with other derivational suffixes, including the affixes of deverbal derivation, so a definite conclusion about their positional status cannot yet be made.

\subsection*{8.2.2.10.1. Intensive -mA-}

The Intensive -mA- expresses the intensity of intransitive action.
\begin{tabular}{lll}
\begin{tabular}{ll} 
tukä- & 'run' \\
zomi- & 'steal'
\end{tabular} & \begin{tabular}{l} 
tukä-ma- \\
zomi-me-
\end{tabular} & 'run quickly' \\
'steal all the time'
\end{tabular}

With transitive verbs the same meaning is automatically perceived as referring to an action that affects many objects or a large number of uncountable objects:
\begin{tabular}{rlll} 
(561) diga- & 'eat' & diga-ma- & \begin{tabular}{l} 
'eat a lot or \\
everything'
\end{tabular} \\
ugdi- & 'warm up (water)' & ugdi-me- & \begin{tabular}{l} 
'warm up a lot \\
of water'
\end{tabular} \\
saula- 'light (a lamp)' & saula-ma- & \begin{tabular}{l} 
'light (many
\end{tabular} \\
kungede- 'fill in' & kungede-me- & \begin{tabular}{l} 
'fill in (many \\
lams
\end{tabular} \\
objects)'
\end{tabular}

\subsection*{8.2.2.10.2. Intensive -ki-, -kA-}

The Intensive suffixes \(-k i-,-k A\) - (the distribution of these two variants is not clear) expresses the meaning that a sudden action is carried out to a high degree of intensity. They seem to be formally related to the expressive affix \(-k\), which derives the impersonal perfective verbal forms in expressive speech.
\(\begin{array}{llll}\text { a. } & \text { Bi yene:-k } & \text { nakta-wa } & \text { ise-ki-e-mi. } \\ \text { me go.PAST-EXPR } & \text { boar-ACC } & \text { see-EXPR-PAST-1SG }\end{array}\) 'I went and saw a boar.'
b. Bi sin-e-we konko-ko-zoŋo-i. me you-0-ACC beat-EXPR-FUT-1SG 'I will beat you.'
c. Si jene-ke-zene-i bu-de xaisi you go-INT-FUT-1SG we-FOC also пепе-ke-zene-и. go-EXPR-FUT-1PL.EX 'You will leave and we will also leave.'

Example (563) suggests that the affix \(-k i,-k A\) is located after the Causative affix, that is, to the right of the affixes that belong to positional group V :
(563) T'osi-wen-e-ke-ze-mi.
dream-CAUS-0-EXPR-SUBJ-1SG
'I will make them dream.'

\subsection*{8.2.3. Modal derivation}

Affixes with a modal-like meaning belong to positional groups IV and V , that is, they always occupy the rightmost position among all derivational affixes. Like aspectual suffixes, they do not change the valence pattern of the base verb.

\subsection*{8.2.3.1. Directive}

Positional group IV includes the Directive suffix \(-n A-\), which is very productive and attaches to virtually every non-stative verb whenever this seems semantically plausible. It means movement directed to performing an action specified by the verb stem.
\begin{tabular}{llll} 
egbesi- & 'swim' & egbesi-ne- & 'go to swim' \\
buge- & 'bury' & buge-ne- & 'go to bury' \\
wakca- & 'hunt' & wakca-na- & 'go to hunt' \\
tama- & 'pay' & tama-na- & 'go to pay' \\
olokto- & 'cook' & olokto-no- & 'go to cook'
\end{tabular}

As already noticed by Schneider (1936: 141), the suffix -nA- expresses the general idea of movement, not necessarily walking. Therefore in some contexts, for example, the verb buge-ne- can be translated not as 'go to bury' but as 'fly to bury', 'swim to bury', 'run to bury', etc.

The verbs wa- 'kill', sa- 'know, learn', gun- 'say', and ja:- 'do what' have irregular Directive stems way-na- 'go to kill', say-na- 'go to learn', guy-ne- 'go to say', and jay-na- 'go to do something', respectively.

\subsection*{8.2.3.2. Desiderative}

The Desiderative -mu:i- typically expresses a wish or the internal (physical) necessity to accomplish a particular action. Most commonly it applies to a restricted group of verbs, that is, verbs that refer to some physical human activity (565a). However, other verbs are not completely excluded either. See (565b), in which case the Desiderative rather has an intentional meaning.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{a.} & umi- & 'drink' & umi-mu:i- & 'want to drink' \\
\hline & nene - & 'go' & эепе-mu:i- & 'want to go' \\
\hline & iñi- & 'laugh' & iñi-mu:i- & 'want to laugh \\
\hline b. & b'agdi- & 'meet' & b'agdi-mu:i- & 'want to meet' \\
\hline & tukä- & 'run' & tukä-mu:i- & 'want to run' \\
\hline & wakca- & 'hunt' & wakca-mu:i- & 'want to hunt' \\
\hline & gada- & 'buy' & gada-mu:i- & 'want to buy' \\
\hline
\end{tabular}

The subject of desiderative verbs is normally an animate noun. In some cases, however, the intentional Desiderative can pertain to a subjectless situation, as indicated by the next example.
(566) Tigde-mu:i-ni.
rain-DES-3SG
'It is going to rain.'
Desiderative verbs do not have a Future tense or Imperative.
Desiderative verbs have a special non-finite form which will be conventionally referred to as the Desiderative noun (DESN in the glosses). It is derived from the Present tense verbal stem with the affix -mugdi, which is probably a compound morpheme consisting of the desiderative affix -mu:i- and some kind of focus particle -gdi (cf. 12.1.1.8). Examples are:
(567) Class I
jexe-mugdi
bu-mugdi
Class II
dian-a-mugdi 'the one wanting to say' <say-0-DESN>

Desiderative nouns do not have a nominal inflection and are used only within copular desiderative constructions where they express a desiderative state (see 17.2.3.2).

\subsection*{8.2.3.3. Intentional}

The intentional suffix -kcA-has two rather different meanings.

\subsection*{8.2.3.3.1. Intentional meaning}

First, it expresses a modal meaning of intention to perform the action, or of being ready to perform it. The action expressed by intentional verbs can be of any character; the derivation in question applies whenever the verb denotes an action that can be carried on intentionally. As with Desideratives, the subject of intentional verbs tends to name a human being.
\begin{tabular}{llll} 
teti- & 'dress' & teti-kce- & 'intend to dress' \\
umi- & 'drink' & umi-kce- & 'intend to drink' \\
mä:usala- & 'shoot' & mä:usala-kca- & 'intend to shoot' \\
akinda- & 'pierce' & akinda-kca- & 'intend to pierce' \\
imana- & 'snow' & imana-kca- & 'be about to snow' \\
zegde-li & 'start burning' & zegde-li-kce- & 'be about to flare up' \\
sa:- & 'know' & sa-kca- & 'want to learn, to \\
& & & know'
\end{tabular}

The Intentional suffix is formally homonymous to the Durative suffix \(-k c A\) - (see 8.2.2.4), but clearly differs from it in semantics.

\subsection*{8.2.3.3.2. Alternating action}

Another function of the affix -kcA- is to express an action that takes place in an alternating way, which occurs several times in opposite directions, or stops and starts alternately and abruptly.

yele- 'be afraid' yele-kce- 'be afraid a little (without being sure)'

An example of the use of the intentional that expresses an action that started taking place, but suddenly stopped.
\begin{tabular}{lcl} 
Aisi-kca:-ni & kinde-kinde & kinde-si-e-ni. \\
mend-INT.PAST-3SG & break-break & break-IM-PAST-3SG \\
'As soon as he started mending (it), he broke (it) completely.' (K 111)
\end{tabular}

The derived verbs with the suffix \(-k c A\) - are often found in the periphrastic construction of alternating action (7.10.1), although the presence of this affix is then redundant.

\subsection*{8.2.4. Non-productive affixes of deverbal derivation}

\section*{Examples:}
-gde-, -gdi-
jexe-gde- 'hiccup' ( jexe- 'sing'); b'a-gdi- 'meet (each other)' (b'a- 'find, get');
-kule-
susa-kule- 'escape' ( susa- 'escape');
-mpA-, -mpi-
mede-mpe- 'ask, inform oneself' (mede- 'be informed'); nodo-mpi- 'throw away'
(nodo- 'lose') (SKX 80);
-lA-
aju:-le- 'admire' (aju:- 'like, love');
-fine-
ekei-fine- 'stop' (SK 1120) (cf. ekei- 'stop').

\subsection*{8.3. Verbal compounds}

Verbal compounding is not a common type of word formation in Udihe. One fairly productive pattern of compounding is the combination of the semantically "light" verb b'a- 'get, receive, find' with a noun or an adjective. Such compounds form fixed lexicalized expressions, which can exhibit non-compositional semantics.

\subsection*{8.3.1. Adjective \(+b^{\prime} a\) -}

The combination of \(b^{\prime} a\) - and certain adjectives produces intransitive compound expressions with the meaning of the acquiring or the beginning of a particular
state. The following list exemplifies all compounds of this type found in our materials:
\(\begin{array}{ll}\text { xekui b'a- } & \text { 'get warm, burnt' } \\ \text { ñamugdi b'a- } & \text { 'start laughing' } \\ \text { guzi b'a - } & \text { 'get in a good mood' }\end{array}\) baita b'ajemui b'asäkpa b'age: b'amanga b'a-
'become guilty' 'get sick'
'be beneficial' 'get offended' 'feel bad' (SKX 326)

Compound expressions of this type are one-place predicates with the experiencer valence; in the clauses the experiencer takes the subject role. The position of the adjective is always strictly before the verb \(b^{\prime} a\) - unless in a negative sentence where the negative auxiliary may intervene between the components of the compound expression (573).
\begin{tabular}{lll} 
a. & Pakula gu:zi \(\quad\) b'a-ni. \\
& Pakula good.moody get. \\
\\
'Pakula got in a good mood.'
\end{tabular}
\begin{tabular}{lll} 
b. & Nua-ni gili & b'a-ni. \\
he-3SG cold & get.PAST-3SG \\
'He got cold.'
\end{tabular}
(573) Zemиi e-ini b'a.
hungry NEG-3SG get
'He is not hungry.'
At least in one example the verb \(b^{\prime} a\) - is replaced by the copula ede'become': xanay ede-ini 'he became sick' <sick become-3SG>. In the expression yene-i b'a- 'prepare to leave' (SKX 126) the verb b'a- co-occurs with the impersonal form of the Present active participle of the verb nene- 'go'.

\subsection*{8.3.2. Noun \(+b^{\prime} a-\)}

Another compounding type is the combination of the verb b'a- 'get' with a noun in the Accusative form. In the Northern dialect, for which the unmarked Accusative is more typical than in the Bikin dialect (4.2.2.2), the object in the corresponding compounds is usually in the Nominative. There are two types of such compounds, which seem to differ in the status of the object noun.

\subsection*{8.3.2.1. Incorporated object}

Consider the following compounds:
a. xekui-we b'a-zuge-we b'a-ligba-wa b'a-simpi-we b'a-unuge-we b'a-
ñanu-wa b'a-
sie-we b'a-baita-wa b'a
b. bugdi-ne-mi b'a-
muje-ne-mi b'a-
beje-ne-mi b'a-

The object here demonstrates a certain independence and syntactic activity. It can sometimes be modified by an adjective (575a) and even by a relative clause (575b). Although the objects in such compounds tend to occupy a strictly preverbal position in the clause, they may be separated from the verb by other elements, or be postposed (575c).
\begin{tabular}{llll} 
a. & Sagdi \(\quad\) baita-wa & b'a-ni. \\
big & trouble-ACC & get.PAST-3SG \\
& 'He got into big trouble.' &
\end{tabular}
b. Manga bude-u-ji unugu-we b'a-mi.
severe die-PAS-PRP disease-ACC get.PAST-1SG
'I caught a severe, fatal disease.' (K 169)
c. Ali b'a-ni uti zuge-we?
when get.PAST-3SG that trouble-ACC
'When did this misfortune happen to him?'
However, these compounds differ syntactically from the regular combination of the verb with a direct object. The object in them does not passivize, does not control depictives and does not relativize, unlike a regular direct object (15.1.2). Unlike other objects, these compounds cannot be coordinated without repeating the verb. The personal affix can only attach to the object modified by the interrogative pronoun \(j\) 'eu 'which, what, what sort of', as is required by its grammar (see 9.5.1).

J'eu ñaŋu-wa-ni b'a-i.
what harm-ACC-3SG get.PAST-2SG
'What harm you cause.' (K 188)
Otherwise, these compound expressions do not allow a possessive object (except for those listed in (574b) which never occur without the reflexive possessive inflection and the Destinative case inflection).

These properties suggest that we are here dealing with an object characterized by a certain degree of incorporation, and that the compound expressions in (574) are transitional in character, being somewhere between a syntactic phrase and a lexical element.

\subsection*{8.3.2.2. Non-incorporated object}

The second type of "noun \(+b\) ' \(a\)-" compounds include the following ones:
b'ata-wa b'a- 'give birth to a boy'
aziga-wa b'a- 'give birth to a girl'
sita-wa b'a- 'give birth to a baby'
In all respects the object in such compound constructions behaves like a regular direct object (15.2). It can be modified by an adjective (578a), a numeral, or a relative clause. The object in these compounds takes personal reflexive inflections and the Destinative case (578b) and can also take the Alienable Possessive affix - \(\boldsymbol{\eta}\) - (578c).
\(\begin{array}{lll}\text { a. } & \text { Adau } & \text { b'ata-wa } \\ \text { twin } & \text { boy-ACC } & \text { be-ni. } \\ \text { get.PAST-3SG }\end{array}\)
'She gave birth to twin boys'.
b. Sita-na-mi b'a-ni.
child-DEST-REF
get.PAST-3SG
'She had a baby.'
c. B'ata-ni-we b'a-ti
boy-AL-ACC get.PAST-3PL
'They had a son.' (K 167)
The objects present in such compound constructions can be coordinated without the repetition of the verb b'a- (579), or they can be stranded (580) or they can relativize (581).
a. Omo
b'ata, omo
aziga b'a-ti. one boy one girl get.PAST-3PL
'They had one boy and one girl.' (K 167)
\begin{tabular}{llll} 
b. Aziga & b'ata & b'a-mi & bagdi-e-ti. \\
girl & boy get-INF & live-PAST-3PL \\
'They lived having a girl and a boy.' (K 141)
\end{tabular}
Si mamasa-i \(\quad\) j'e-we
you wife-2SG \(\quad\) what-ACC \(\quad\) get.PA
aziga-wa:-s \(\quad\) b'ata-wa:-s?
girl-ACC-DIS boy-ACC-DIS
'What did your wife have - a girl or a boy?'
\begin{tabular}{llll} 
a. \begin{tabular}{ll} 
Näzakta-la-i & b'a-ni \\
brother-LOC-REF & get.PAST-3SG
\end{tabular} & b'ata & j'eu \\
& boy what
\end{tabular}
aja bi-ze?
good be-SUBJ
'How would a boy born with a brother be nice?'
b. \(B i\) ise:-mi bi \(x a:-i\)
me see.PAST-1SG me relative-1SG
sita-wa b'a-ma-ni.
son-ACC get.PP-ACC-3SG
'I saw the baby my relative gave birth to.'
These syntactic properties suggest that the status of the object in (577) differs from that in (574). The former demonstrates greater syntactic activity and behaves like a regular direct object, while the latter presents an instance of an incorporated object.

\subsection*{8.3.3. Other compounds}

The compounds with the copula 'be' are given in (582a). In (582b) we present compounds with the element anči-gde < no-FOC>.
a. baita bi-
mende bi-
bagä+Possessive affix bi-
kesi gele-
sese bi-
bude bude-
gefuli-gde yene-
b. anči-gde ŋene-
anči-gde tukä-
anči-gde ise-
anči odo-
anči odo-won-
'have business with'
'be unbroken'
'hate'
'pray about luck'
'do one's best'
'die'
'disappear (completely)' (SK 243)
'disappear (walking)'
'disappear (running)'
'see something disappear'
'disappear' (SKX 240)
'destroy' (SKX 204)

\section*{Examples:}
a. Si Säga tene ketu ge: baita
Si San CONT very bad business bi:-ni zonku-ziga-du. be-3SG poor-PL-DAT
'And Si San does very bad business with the poor people.'
\begin{tabular}{llll} 
b. & \begin{tabular}{ll} 
Nua-ni & \(b i\)
\end{tabular} & bagä-i & bi:-ni. \\
he-3SG & me & hate-1SG & be-3SG
\end{tabular}
'He hates me.'
c. Xente-ne-ti kuti mafa aka-wa-ni
master-PL-3PL tiger old.man back-ACC-3SG
anči-gda ise:-ti.
no-FOC see.PAST-3PL
'Their masters saw the back of the tiger disappear.' (SK 314)

\subsection*{8.4. Zero-derivation}

\subsection*{8.4.1. Adjective-to-verb conversion}

Examples of suffixless verbal derivation from the adjectives are:
\begin{tabular}{ll} 
bogo & 'fat' \\
kono & 'thin' \\
manga & 'strong'
\end{tabular}
bogo- 'become fat'
kono- 'get thin'
manga- 'be bad weather, storm'

Such verbs may co-occur with a cognate adjective:
Ketu bogo-ŋku bogo:-ti.
very fat-PL fat.PAST-3PL
'They became very fat.' (K 191)

\subsection*{8.4.2. Noun-to-verb conversion}

As mentioned in 5.2.1, the direction of the verb-noun/noun-verb zero derivation can only be determined conventionally. The following verbs seem to be derived from nouns with a concrete meaning:
\[
\begin{align*}
& \text { jue 'file' }  \tag{586}\\
& \text { kuge 'bellows' } \\
& \text { sugbu 'fish skin' } \\
& \text { keku 'cuckoo' }
\end{align*}
\]
\begin{tabular}{|c|c|c|c|}
\hline miki & 'small snake' & miki- & 'crawl' \\
\hline tama & 'price' & tama- & 'pay' \\
\hline bono & 'hail' & bono- & 'hail' \\
\hline lada & 'rain with snow' & lada- & 'rain with snow' \\
\hline tigde & 'rain' & tigde- & 'rain' \\
\hline nayda & 'debt' & nayda- & 'borrow' \\
\hline gida & 'spear' & gida- & 'prick with a spear' \\
\hline
\end{tabular}

In the following pairs the nouns, which originally belonged to morphonological class II (4.1.1.2), seem to have lost the stem-final \(/ n /\) and moved to class I, while the corresponding verbs preserve the stem-final \(/ n /\).
(587) tikpe 'nail' tikpen- 'hammer in'
tau 'number' taun- 'count'

\section*{Chapter 9 \\ Pronouns}

This section is based on the following traditional semantic classification of pronouns: Personal pronouns (9.1), Reflexive pronouns (9.2), Reciprocal pronouns (9.3), Demonstrative pronouns (9.4), Interrogative pronouns (9.5), and Indefinite pronouns (9.6). Morphologically and syntactically pronouns fall into four classes: pro-nouns, pro-adverbs, pro-adjectives, and pro-verbs. Each class exhibits the same morphological categories as the regular corresponding grammatical class, as well as a similar syntactic behavior. In a clause, pro-nouns normally function as arguments, adjuncts or modifiers; pro-adverbs as adjuncts; pro-adjectives as modifiers; and pro-verbs are predicates. The latter class is actually very limited in Udihe: there is only one pro-verb.

\subsection*{9.1. Personal pronouns}

Personal pronouns are pro-nouns in a strict sense, that is, their morphological and syntactic behavior is similar to that of nouns. They inflect for case and an (Alienable) Possessive. In a sentence, they take an argument position, or function as determiners or adjuncts (rarely as predicates). In principle, their overt presence in the sentence is not obligatory in most functions; for further information on pronoun drop, see Chapter 22.

\subsection*{9.1.1. System of Personal pronouns}

There is only one series of Personal pronouns in Udihe: 1 SG bi 'me', 2 SG si 'you', 3SG nuani, bueni 'he/she', 1PL IN minti 'we (with you)', 1 PL EX bu 'we (without you)', 2 PL su 'you', 3 PL nuati, bueti 'they'. The pronouns bueni/bueti are typical only of the Southern dialect, where they can occasionally be pronounced bejeni/bejeti, respectively. Such a pronunciation harks back to their historical origin, from the nominal beje 'body' (beje-ni <body-3SG>, beje-ti <body-3PL>).

The \(3^{\text {rd }}\) person Personal pronouns normally refer only to humans, while non-human objects are referred to by Demonstrative pronouns (9.4). On the difference between the \(3^{\text {rd }}\) person pronouns nuani 'she/he', nuati 'they', on the one hand, and bueni 'she/he', bueti 'they', on the other hand, see 22.1.1.

The pronouns nua-ni and bue-ni are morphologically complex and include the \(3^{\text {rd }}\) person inflection -ni. In the Nominative, the form nua can occasionally be used instead of nua-ni 'he/she' in the Northern dialect, as illustrated in (588).
\begin{tabular}{lllllll} 
(588) & Ele & ele & \(e\) & bede & bi-mi nua & muisi:-ni \\
soon & soon & this & like & be-INF he & think-3SG
\end{tabular}
jegdige.
hero
'The hero immediately thought: this is she.' (K 144)

\subsection*{9.1.1.2. Case inflection}

Personal pronouns take regular case inflections, the paradigms are presented below.
\begin{tabular}{llll} 
& \begin{tabular}{l} 
bi 1SG \\
(also: \(s i\) \\
2SG)
\end{tabular} & \begin{tabular}{l} 
nua-ni 3SG \\
(also: bue-ni 3SG)
\end{tabular} & \begin{tabular}{l} 
bu 1PL EX \\
(also:su 2PL)
\end{tabular} \\
ACC & min-e-we & nua-ma-ni & mun-e-we \\
DAT & min-du & nuan-di-ni & mun-du \\
LAT & min-tigi & nuan-tigi-ni & mun-tugi \\
LOC & min-dule & nuan-dile-ni & mun-dule \\
INST & min-zi & nuan-zi-ni & mun-zi \\
PROL & min-dili & nuan-dili-ni & mun-duli \\
ABL & min-digi & nuan-digi-ni & mun-dugi
\end{tabular}

The declension of the pronouns minti and bue-ti is not shown here because it is completely identical to the regular declension of class I nouns (4.1.3). Although the pronoun bue-ti, historically includes the \(3^{\text {rd }}\) person Plural inflection \(-t i\), it does not insert case markers between it and the stem; the case markers rather follow the -ti. The pronoun bue-ni is declined in the same way as nua-ni, the pronoun \(s i\) is declined in the same way as \(b i\), and the pronoun su is declined in the same way as \(b u\). Therefore these pronouns are not presented in the paradigms either. The pronoun nua-ti 'they' typically behaves like morphologically simplex; so its Accusative form is nuati-we. However, it may sometimes decline like nua-ni, in which case the case affix is inserted before the \(3^{\text {rd }}\) Plural marker - \(t i\), so the Accusative nua-ma-ti is also acceptable.

Two Personal pronouns have a suppletive \(n\)-final oblique stem. For the pronoun \(b i\) ' I ' all non-Nominative cases are formed from the oblique stem min-, while for the pronoun bu 'we (without you)' the oblique stem is mun-. In the pronunciation of certain speakers the oblique forms of the pronoun bi 'me' are \(b\)-initial under the analogous influence of the Nominative: bin-e-we <me-0-ACC>, bin-dule <me-LOC>, etc. The pronouns si 'you (SG)' and su
'you (PL)' have non-suppletive oblique \(n\)-final stems, sin- and sunrespectively. All these oblique stems (min-, mun-, sin-, sun-) behave as class II \(n\)-final nouns (6.1.1) and take the same case inflections as class II nouns. In the Accusative the epenthetic \(/ e l\) is inserted between the stem and the case inflections. In the other cases the epenthetic vowel is not present.

For the morphologically complex pronouns nua-ni, bue-ni the \(3^{\text {nd }}\) person inflection -ni follows the case marker. Occasionally, however, a form such as bue-ni-we <he-3SG-ACC> may also occur. The \(3^{\text {rd }}\) person inflection may sometimes be absent, but this is rather infrequent: nuan-tigi (LAT) (SK 622), nuan-digi (ABL). The stem itself is also \(n\)-final (nuan- and buencorrespondingly) and behaves like regular class II stems: in the Accusative the stem-final \(/ n /\) is not present and the Accusative inflection is -me-, in other cases \(\ln /\) is overtly present before the case marker.

Personal pronouns lack the Destinative case for obvious semantic and formal reasons: the Destinative is necessarily accompanied by a possessive marker which refers to the potential recipient of the Destinative object (4.2.2.9), such a marker cannot attach to the pronoun, which bears a personal reference by itself. Quite predictably, the Partitive is also lacking; the corresponding meaning is expressed with the postposition gäundi-ni (see 10.2.1.3.2).

In the Northern dialect as recorded by Kormušin (1998) the frequent absence of the Accusative marker is attested for nouns (4.2.2.2). In the same way, the Accusative suffix -we on the pronouns bi 'me' and si 'you' may be omitted. The corresponding forms represent the oblique stem augmented by the epenthetic /el: min-e 'me (ACC)' and sin-e 'you (ACC)', cf.:
a. Min-e baysal'a.
me-0 kick.PERF
'He kicked me.' (K 112)
\(\begin{array}{llll}\text { b. J'eu } & \text { min-e } & \text { numkisi: } & \text { si? } \\ \text { what } & \text { me-0 } & \text { bewitch.2SG } & \text { you }\end{array}\)
'Why are you bewitching me?' (K 113)
c. Bi sin-e a:-zana-i ei-ke
me you-0 catch-FUT-1SG this-CONT
'I will catch you anyway.' (K 180)
Case forms of Personal pronouns have basically the same meanings as the corresponding case forms of nominals (4.2.2). As with nominals, Nominative forms can be used attributively, although they are often anaphorically dropped in this function (21.1).

\subsection*{9.1.1.2. Dual form}

The oblique \(n\)-final stem of the Personal pronoun bi 'me' followed by the element zuye 'two, in two, both' (11.1.3), which is phonologically bound and acts here rather as a suffix, produces a complex form min-zuye 'I with you, we, two of us'. Other pronouns are not attested in such a form. In the subject role the word min-zupe requires a \(1^{\text {st }}\) person Inclusive personal agreement on the verb, for example:
(591) a. Min-zūe zugdi-du amäsa:-fi. me-both home-DAT stay.PAST-1PL.IN 'We stayed at home with you.'
b. Min-zupe omo škola-la ñansule-fi. me-both one school-LOC study-1PL.IN 'We study with you in the same school.'

\subsection*{9.1.1.3. Possessive form}

The possessive forms of the Personal pronouns are: 1SG mini-ni 'mine', 2SG sini-ni 'yours', 3SG nua-ni, nua-ni-ni 'his, hers', 1PL \(\mathbb{I N}\) minti-ni 'ours', 1 PL EX muñu- \(\eta\) u 'ours', 2PL suñu- \(\eta u\) 'yours', 3PL nuati- \(\eta i\) 'theirs'. As can easily be seen, these forms are actually oblique pronominal stems, sometimes slightly modified phonologically, augmented by the suffix of Alienable Possessive - \(\eta\) i(4.1.4.3).

Possessive Personal pronouns are not used attributively, but only occur in the case position (argument or adjunct) within the headless noun phrase (22.2.3), or as predicative elements in the copular construction (17.2.2.3). They inflect for case in the same way as nouns, and their case forms have the same meanings as the corresponding case forms of nouns (4.2.2). Used as predicative elements in a copular construction, the possessive Personal pronouns are always in the Nominative.

\subsection*{9.2. Reflexive pronouns}

Reflexive pronouns belong to the class of pro-nouns. Like Personal pronouns, they are also found in possessive and non-possessive forms and inflect for case. Reflexive pronouns take as their antecedent the subject of the same clause and are obligatory to express coreference with the subject within the clause (see 22.3 for syntactic details and the conditions on reflexivization).

\subsection*{9.2.1. The Nominative form}

The Nominative form of the non-possessive reflexive pronoun is men-e 'oneself' in Singular and men-e-men-e 'themselves' in Plural (/e/ here is an epenthetic vowel). In the subject function the Singular form is often used in the Plural function, as subject agreement in number is not altogether obligatory in Udihe (15.1.1.2.2). In other functions Reflexive pronouns are consistently distinguished for Singular and Plural. The Nominative of the Reflexive pronoun has syntactic functions typical of the Nominative forms of nouns: it appears in the subject position, as a possessive modifier, and as the object of a postposition.

\subsection*{9.2.1.1. Emphatic reflexive function}

The Nominative form of the reflexive pronoun is used as an emphatic reflexive in the meaning 'by oneself, by themselves, on one's own'. It indicates that the agent acts independently, or on his/her own, or without being affected by anybody/anything, for example:
a. Men-e w'a-si j'eu gun-e-i?
self-0 kill.PERF-PC.SS what say-0-2SG
'What are you saying after having killed (him) yourself?' (K 195)
b. Men-e bagdi-ze-hi.

REF-0 live-SUBJ-2SG
'Live on your own.' (K 129)
c. G'ai-ni-ni men-e ise-si:-ni, tu: te-ini. crow-AL-3SG REF-0 see-IM-3SG all sit-3SG 'The crow is sitting (on its own) and looking.' (SK 582)
d. Ede, friend NEG-IMP.2SG bad do father-REF ani-mi, mother-REF
'Friend, don't do anything bad to you father and your mother, leave them alone.' (SKX 226)

The Plural reflexive pronoun in this function rather has a distributive meaning, that is, 'each (on one's own)'.

> a. Sita-na-ni-de men-e-men-e mamasa-la-gi-si-e-ti. child-PL-3SG-FOC REF-0-REF-0 wife-V-REP-IM-PAST-3PL
> 'Each of his children got married.' (SK 579)
b. Men-e-men-e
se: bede o:si:-ti.
REF-0-REF-0 clan like become-3PL
'Each of them became like a separate clan.' (Schneider 1937: 28)
c. Sita-na-ni-de men-e-men-e mamasa-la-gi-si-e-ti.
child-PL-3SG-FOC REF-0-REF-0 wife-V-REP-IM-PAST-3PL
'Each of his children got married.' (SK 579)

For an animate antecedent the reflexive pronoun men-e is normally followed by the emphatic reflexive element bejezi: ‘self' (< beje-zi-i 'body-INST-REF>). The resulting form men-e bejezi: 'oneself, by oneself' follows the nominal, or a Personal pronoun it modifies, and its exact interpretation ('myself', 'yourself', etc.) strongly depends on this head element.


The same meaning can be rendered by the word beje-ni 'self' (<body-3SG>).


\subsection*{9.2.1.2. Attributive function}

The Nominative form of the reflexive pronoun also functions as an attribute, while the head of the corresponding noun phrase bears the Reflexive Possessive suffix (4.1.4.2).
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
Bi men-e \\
me REF-0
\end{tabular}\(\quad\) ugda-na-mi & boat-DEST-REF & wo:-mi. \\
make.PAST-1SG
\end{tabular}

The Plural Reflexive pronoun in the attributive function may have a distributive (597) or non-distributive (598) interpretation.
\(\begin{array}{lll}\text { a. } \begin{array}{ll}\text { Men-e-men-e } & \text { zugdi-tigi } \\ \text { REF-0-REF-0 } & \text { house-LAT } \\ \text { 'They went each to his own house.' }\end{array} & \text { go.PAST-3SG }\end{array}\)
b. A:nta n'aula lauli:-ni men-e-men-e du:-zi.
woman child dance-3SG REF-0-REF-0 way-INST.REF
'Women and children are dancing, each in their own way.'
c. Men-e-men-e xokto-li-fai a:-ti. REF-0-REF-0 road-PROL-REF.PL chase.PAST-3PL 'They chased (them) each along his own road.' (SK 582)
\begin{tabular}{lll} 
Men-e-men-e & soktou-ne-fi & gada-iti. \\
REF-0-REF-0 & bedding-DEST-REF.PL & bring-3PL \\
'They bring bedding for themselves.' &
\end{tabular}

Like Personal pronouns, in this use reflexive pronouns can easily be dropped if not emphatic or contrastive (21.2.1).

\subsection*{9.2.1.3. Embedded clause subject}

In the embedded participial clause, namely in a relative clause (Chapter 19), a participial complement clause (Chapter 20), or a participial adverbial clause (Chapter 21), the Nominative reflexive pronouns can act as a subject coreferential with the superordinate clause subject, although it can also easily be omitted in this function.
a. Men-e bi-sin-tigi: eme-gi-kte:-ti.

REF-0 be-PP-LAT.SS come-REP-DIS.PAST-3PL
'They returned to where they used to live.' (SK 701)
b. Men-e teu egze-li:
[REF-0 all understand-INC.PRP.SS
xi-de tani-e-mi.
till-FOC] read-PAST-1SG
'I was reading until I understood everything myself.'
c. Men-e-men-e aja gun-ei-tigi:

REF-0-REF-0 good say-PRP-LAT.SS
nene-kte:-ti.
go-DIS.PAST-3PL
'They went where they wanted, each on his own.' (SK 932)

\subsection*{9.2.1.4. Reflexive pronoun with postpositions}

When a reflexive pronoun functions as the object of a postposition, the postposition takes a reflexive possessive affix.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{a.} & Men-e & kä:la-i & te:-i & ni:-we \\
\hline & REF-0 & side-REF & sit-PRP & man-ACC \\
\hline & ico-zi & isilo:-ni. & & \\
\hline & elbow-INST & touch.PAS & & \\
\hline & 'He touched & elbow a & tting ne & .' (SK 580) \\
\hline
\end{tabular}
b. Sugzä: susali-e-ni men-e amä:la-i
fish escape-PAST-3SG [REF-0 after-REF
ugda-wa
tayda-mi.
boat-ACC carry-INF]
'The fish escaped carrying the boat after itself.'
c. Sina-u-gi-e-ni men-e ojo-lo-i.
burden.frame-CAUS-REP-PAST-3SG REF-0 top-LOC-REF
'He put (it) on the burden frame on top of himself.'
(Schneider 1937: 80)

\subsection*{9.2.2. Case inflection}

Reflexive pronouns are not opposed for different persons. Cases other than the Nominative are derived from the stem \(m e(n)\) - followed by the case inflection (null for the Accusative) and the following personal inflections: \(-i\) or \(-m i\) in the Singular and \(-f(e) i\) in the Plural. The Singular personal inflection \(-m i\) is found in the Accusative and the Destinative; in the other cases the inflection \(-i\) is used, which often contracts with the preceding vowel \(/ i /\) (2.3.1). The inflections
\(-i /-m i(\mathrm{SG})\) and \(-f(e) i(\mathrm{PL})\) coincide with the regular reflexive possessive affixes of nouns (4.1.4.2). As distinct from nouns, the Destinative forms are morphologically based on the Dative case. The case paradigms of the reflexive pronouns are:

> SG

NOM men-e
ACC me-m(u)i
DAT men-di:
LAT men-tigi:
LOC men-dile-i
INST men-zi:
PROL men-dili:
ABL men-digi:
DEST men-di-ne-mi <REF-DAT-DEST-REF>

PL
men-e
me-f(e)i
men-di-fi
men-tigi-fi
men-dile-fi
men-zi-fi
men-dili-fi
men-digi-fi
men-di-ne-fi
<REF-DAT-DEST-REF.PL>

Most case-inflected forms of the reflexive pronouns take an argument position and generally cannot be omitted from the clause. Examples of the use of reflexive pronouns are presented in 22.3.1.1.

\subsection*{9.2.3. Possessive forms}

Like possessive Personal pronouns, possessive reflexive pronouns are used only in the non-attributive function, that is, mostly in the argument position within a headless noun phrase (22.2.3) or as a final predicate. In the argument position they take the case form of the corresponding argument, and in a predicate function they are used in the Nominative.

Morphologically, the possessive reflexive pronouns are derived from the stem meni-, followed by the affix of Alienable Possessive - \(\boldsymbol{\eta}\) - (4.1.4.4), and then the case affix (which is null for the Nominative and the Accusative), and the reflexive personal inflection ( \(-i\) for the Singular and \(-f(e) i\) for the Plural). The Nominative is identical to the Accusative and includes only the stem meni-, the affix -ni-, and the reflexive personal inflections. The Destinative case is lacking. The paradigms of the possessive reflexive pronouns are:
NOM-ACC
DAT
LAT
LOC
PROL

SG
meni-mi:
meni-ni-di:
meni-ni-tigi:
meni-ni-le-i
meni-ni-li:

PL
meni-ni-fi
meni-yi-di-fi
meni-mi-tigi-fi
meni-ni-le-fi
meni-gi-li-fi
\begin{tabular}{lll} 
ABL & meni-ŋi-digi: & meni-ŋi-digi-fi \\
INST & meni-ŋi-zi: & meni-ŋi-zi-fi
\end{tabular}

\subsection*{9.3. Reciprocal pronouns}

Reciprocal pronouns (pro-nouns) have only the Nominative and Accusative forms. In functions other than the direct object or the possessive modifier other means are used to convey a reciprocal meaning (on the syntax of reciprocalization see 22.4).


Morphologically, the Nominative is the reduplicated form of the reflexive stem \(m e(n)\) - and the Accusative goes back to its Accusative Plural form (9.2.2). Reciprocal pronouns must be overtly present in a sentence.

The Nominative reciprocal acts as the possessive modifier, while the Accusative reciprocal functions as the direct object or takes other roles (for further information see 22.4.1). Unlike the Nominative form of the Reflexive pronoun, the Nominative Reciprocal does not occur as a subject or an object of a postposition. It is used either as a possessive modifier (22.4.1.2) or adverbially with the meaning 'separately, each by himself', and 'in different directions', cf.:
```

a. Men-e-men-e bagdi:-ti.
REC-0-REC-0 live-3PL
'They live separately (each on his own).'
b. Bue-ti men-e-men-e yene:-ti.
he-3PL REC-0-REC-0 go.PAST-3PL
'They left separately.'
c. Teu men-e-men-e wesi-e-ti.
all REC-0-REC-0 throw.away-PAST-3PL
'They threw everything away in different directions.' (SKX 162)

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We also have a few examples where the Nominative Reciprocal pronoun indicates the reciprocalization of an oblique object, see 22.4.1.1. However, they do not seem to be regular.

Note that in the Northern dialect as recorded by Simonov and Kjalundzjuga, to the Reflexive pronouns may be derived not only from the reflexive stem men-e but also from the stem za:- by means of the reflexive possessive affix \(-f i\) and case affixes.
dog-PL REF-PL-REF-PL bite-REC-3PL
'Dogs bite each other.' (SK 354)
b. Za:-tigi-fi-za:-tigi-fi ana-masi--ti.

REF-LAT-REF-REF-LAT-REF push-REC-3PL
'They force each other (to do some work).' (SK 310)

\subsection*{9.4. Demonstrative pronouns}

Demonstrative pronouns behave morphologically and syntactically as pro-adjectives: they function either as an attributive modifier, or as a nominalized element within a headless noun phrase. In a modifier function they always precede the head noun and have the Nominative Singular form. On the demonstrative noun phrase see 13.4. The oblique case forms do not function as modifiers but are substantivized and take argument and adverbial roles. The local cases are used as independent local pro-adverbs, which is the only way to form deictic and anaphoric pro-adverbs in Udihe.

Semantically, demonstratives are divided into two major classes, the anaphoric-deictic class and the deictic class. Deictic pronouns cannot function as textual anaphors, while anaphoric-deictic pronouns are used both in deictic and anaphoric roles. In the latter case they have either resumptive or discourse-linking function. In this section we only cite examples for their deictic use, while section 22.1 .2 presents instances of anaphora. For both major classes two series are distinguished in terms of the distance from the point of reference: proximal deixis pronouns and distal deixis pronouns. So, Udihe demonstratives fall into four series.

Demonstrative pronouns exhibit case inflection similar to, though still somewhat different from, the inflection of nouns. The formal difference is attested in the Lative case, in which the pronouns have two forms: with the regular inflection -tigi or the adverbial Lative inflection -uxi, which is also used in adverbial expressions (Chapter 11). As distinct from nouns, demonstratives lack the Destinative and the Partitive case. The paradigms for the demonstrative pronouns are presented below:
(606) anaphoric-deictic pronouns deictic pronouns
\begin{tabular}{|c|c|c|}
\hline & proxima & distal \\
\hline NOM & ei, e: 'this' & uti, ute, utauxi 't \\
\hline ACC & a-wa & (u)ta-wa \\
\hline DAT & \(o-d u\) & (u)ta-du \\
\hline
\end{tabular}
\begin{tabular}{lllll} 
LAT & \(a-u x i\) & \((u) t a-u x i\) & & \\
& i-tigi & \((u) t a-t i g i\) & & \\
LOC & o-lo & \((u) t a-l a\) & te:ti-le & ta:ti-le \\
PROL & \(o-l i\) & \((u) t a-l i\) & & \\
INST & \(o-z i\) & \((u) t a-z i\) & & \\
ABL & \(o-d i g i\) & \((u) t a-d i g i\) & &
\end{tabular}

The anaphoric-deictic pronouns referring to persons have a Plural formed with the collective word getu, for example, ei getu 'these', uti getu 'those'. The Plural forms are attested only for the Nominative and the Accusative. The anaphoric-deictic pronouns can take personal inflections, for example: ei getu-we-fi 'these of ours (ACC).'

\subsection*{9.4.1. Anaphoric-deictic pronouns}

\subsection*{9.4.1.1. Proximal deixis}

As can be seen from the table in 9.4, the anaphoric-deictic pronouns of the proximal deixis have suppletive stems: \(e i\) in the Nominative, \(a\)-, \(i\) - or \(o\) - in other cases. The stem \(i\) - is likely to be the result of assimilation of the stem vowel to the following case inflection, containing the vowel \(/ i /\). The stem ei can perhaps be interpreted phonologically as ai or oi, since all non-high vowels are neutralized to \(/ e /\) in the position before \(/ i /\) (2.1.3). In this case the pronominal stem can simply be reconstructed as \(a \%\)-, and in the Nominative it appears to be augmented by a certain element \(-i\).

The pronouns of the series ei can be used anaphorically, although this is not their main function and textual anaphora is more often expressed by the uti/ute/tei/ti: pronouns (9.6.2). Examples of the anaphoric use of the pronoun ei are presented in 22.1.2.

Nominative forms can only function as modifiers or arguments of postpositions, for example, the postposition bede 'like'.
\begin{tabular}{llll} 
a. & Ei bede e-u & dian-a. \\
this like NEG-PRP.PAS & say-0 \\
& 'One shouldn't speak like this.' \\
b. & Ei egdi-lanki-ni & wa:-i. \\
& this much-ADJ-3SG & kill.PAST-2SG
\end{tabular}
'You have killed so much (of it).'
It is also found within several "frozen" expressions, such as ei zulieni 'up to now, so far' (zulie-ni <before-3SG>), ei dinki-ni 'this size', eineyi < ei neni-ni <this day-3SG>'today', and ei tene 'now' (tene is a contrastive particle, see 12.1.1.5).

The Nominative pronoun ei may have a non-demonstrative function and then pertain to the organization of the text or the utterance. In this case its closest equivalent in English would be 'now' or 'so'.
a. \(E i\)
nene-ze-mi
now go-SUBJ-1SG
bi anda-tigi:.
me friend-LAT.REF
'Now I will go to my friend.' (K 133)
b. \(E\)

> geje yene-zene-i Kanda mafa-tigi. now together go-FUT-2SG Kanda old.man-LAT 'Now you will go together (with me) to the old man Kanda.'

Oblique case forms are used in an argument position. Example (609) shows the Accusative case.
\(A-w a\)
this-ACC
\(e-z i\)
NEG-IMP.2SG
zawa.
'Don't take this.'
Local cases function as pro-adverbs o-du 'here', \(a\)-uxi 'to here', o-lo 'here', o-li 'here (along this place)', o-digi 'from here', cf.:
\(\begin{array}{lll}\text { a. } & B i & \text { o-digi } \\ & \text { me } & \text { this-ABL } \\ & \text { 'I went from here to there.' }\end{array}\)
ta-uxi jene:-mi.


\subsection*{9.4.1.2. Distal deixis}

These pronouns have two stems in all case forms, namely with or without the initial \(u\)-: uta-/ute/uti and ta-/ti:/tei. There is no apparent semantic difference between the pronouns based on these two stems. The stems uta- and ta-appear in the oblique cases, while the forms uti/ute (sometimes also uta) and tei/ti: show up in the Nominative and are completely interchangeable as free phonological variants.

The ute/uti/ti:/tei pronouns are the regular means of textual anaphora in Udihe. The anaphoric function of the pronouns ute/uti/ti:/tei is studied in 22.1.2. The local cases usually refer to inanimate objects, while the non-local cases may refer to animate objects as well.

Like the proximal pronouns, the distal deixis pronouns in the Nominative are used either as prenominal determiners or in the argument position. The first case is illustrated in (611), the second case is illustrated in (612).
\begin{tabular}{lll} 
Ti: moxo-zi umi-je. \\
that cup-INST & drink-IMP
\end{tabular}
that cup-INST
drink-IMP.2SG
'Drink from that cup.'
\(\begin{array}{llll}\text { a. } & \text { J'eu } & \text { bi:-ni } & \text { uti? } \\ \text { what } & \text { be-3SG } & \text { that }\end{array}\) 'What is that?'
\(\begin{array}{lllll}\text { b. J'eu } & \text { dele ni:-ni } & \text { eme:-ni? } & \text { Uza } \\ \text { what } & \text { CONT man-3SG } & \text { come.PAST-3SG } & \text { Uza } \\ \text { uti. } & \text { J'e-we-de } & \text { e-ini } & \text { sa: } & \text { uti. } \\ \text { that } & \text { what-ACC-ND } & \text { NEG-3SG } & \text { know } & \text { that }\end{array}\) 'Who was this person who came? This was Uza, he does not understand anything.' (K 112)

Case forms other than the Nominative cannot be used as attributes. Local cases function as pro-adverbs of distal deixis: (u)ta-uxi 'to there', (u)ta-du 'there', (u)ta-la 'there', (u)ta-li 'there (on that place)', (u)ta-digi 'from there'. Example (613a) illustrates the deictic use of the demonstrative pronoun in the Ablative. Example (613b) shows that the substantivized pronouns \(e i\) and ute are both in the Accusative case and are both used deictically, that is, with a direct indication of their extra-linguistic referents.
a. Ta-digi e-zi xebu. that-ABL NEG-IMP.2SG take 'Don't take it from there.'
b. \begin{tabular}{ll}
\(B i\) & \(a-w a\) \\
me this-ACC & xebu-zene-i \\
take-FUT-1SG & si
\end{tabular} you \begin{tabular}{l} 
uta-wa \\
that-ACC
\end{tabular} xebu-je. take-IMP.2SG 'I will take this one, you take that one.'

\subsection*{9.4.1.3. Non-demonstrative function}

Anaphoric-deictic pronouns of proximate and distal deixis are often used in parallel constructions that denote two identical situations. Their meaning in this case is not demonstrative.
\(\begin{array}{lll}\text { a. Ta-wa } & \text { tokto-nd'o } & a-w a \\ \text { that-ACC } & \text { hit-SEM.PERF } & \text { this-ACC }\end{array}\) tokto-nd'o.
hit-SEM.PERF
'He hits one, he hits another one.'
b. Te: bede tand'a e: bede tand'a. that like pull.PERF this like pull.PERF 'He pulled like this and like that.' (K 163)
c. I-la ta-la koskoskoskos this-LOC
that-LOC INTER dele etete-ini gune. IND work-3SG EV
'Here and there somebody is working making noise.' (K 144)
d. Te: bede e: bede dian-a-i.

That like this like say-0-PRP
'He speaks of one thing and another.'
The following parallel constructions are "frozen", so that the order of the elements cannot be changed: te:-le o-lo (LOC), au-z'e-fe tau-z'e-fe (ACC) or \(i\)-la ta-la (LOC) 'here and there'; ta-uxi a-uxi (LAT) 'hither and thither'.

\subsection*{9.4.2. Deictic pronouns}

Deictic pronouns are attested in our corpus only in the Nominative and Locative cases. They are only used deictically when pointing directly at an object. Syntactically, they behave either as spatial adjuncts (615) or (less frequently) as an attribute (616).
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{5}{*}{a.} & \multirow[t]{2}{*}{Xokto-li road-PROL} & cul & \multicolumn{2}{|l|}{ทene:-ni} \\
\hline & & straight & \multicolumn{2}{|l|}{go.PAST-3SG} \\
\hline & dieze-le-ni & ise:-ni & \multicolumn{2}{|l|}{mo:-wo.} \\
\hline & depth-LOC-3SG & see.PAST-3SG & \multicolumn{2}{|r|}{firewood-AC} \\
\hline & \multicolumn{4}{|l|}{'She went straight ahead along the road and over there in the she saw firewood.' (K 140)} \\
\hline b. & Sita eme & \(e-n i\) & bebi, & sita \\
\hline & n com & EP-PAST -3SG & EV & son \\
\hline & bebi te & & & \\
\hline & EV this & & & \\
\hline
\end{tabular}
'Our son came, apparently, apparently this is our son.' (K 199)
c. Te:ti-le bie
mo:
that-LOC be.PRES.HAB tree

There is a tree over here.'
\(\begin{array}{llll}\mathrm{Bi} & \text { ise:-mi } & \text { ta:ti } & \text { mo:-wo. } \\ \text { me } & \text { see.PAST-1SG } & \text { that } & \text { tree-ACC }\end{array}\)
'I have seen that tree.'

\subsection*{9.5. Interrogative pronouns}

Interrogative pronouns may be pro-nouns (9.5.1), pro-adjectives (9.5.2), pro-adverbs (9.5.3), and pro-verbs (9.5.4). This section deals only with their morphology and basic meanings; further examples of their use can be found in section 23.1 on questions.

\subsection*{9.5.1. Interrogative pro-nouns}

Two basic forms of Interrogative pronouns are \(j\) 'eu 'what' for an inanimate antecedent, and sometimes for an animate antecedent as well, and ni 'who', which is only used for an animate antecedent. The pronoun \(n i\) ' who' takes case forms completely identical to those of the almost homonymic noun ni: 'man' on which it is based. These forms are the regular case forms for class I nouns (see 4.1.3). Most case forms of the stem \(j\) 'e- are derived as regular class I nouns, with the exception of the Lative case which takes the adverbial inflection -uxi, the adverbial Ablative in -zeyezi, and the adverbial Accusative in ' \(-f e\). The case forms are:
            j'eu
            (NOM)
    j'e-we
    j'e-du
    j'e-le
    j'e-uxi
    je-digi
    j'e-zenezi
    j'e-li
(ACC)
'what'
'what; where, on which place'
'what'
'where'
'where'
'where to'
'from where'
'from what side'
'where (on which place)'
'what'
'what; where, on which place'
'what'
'where'
'where'
'where to'
'from where'
'from what side'
'where (on which place)'
    (ACC)
    (DAT)
    (LOC)
(LAT)
(ABL)
(ABL)
    (PROL)

The Destinative forms include different personal inflections, for example: \(j\) 'e-ne-mi 'what for oneself', \(j\) 'e-ne-fi 'what for themselves', \(j\) ' \(e-n e-i\) 'what for you', j'e-ne-ni 'what for him' etc. There is also the locational noun \(j\) ' \(e-z e\) 'what side', where \(-z e\) is a derivational suffix (5.1.2.4). Thus, the case paradigm of the pronoun \(j\) 'eu exhibits formal similarities with the adverbial case paradigms
(10.1). Other forms derived from the interrogative stem is the adjective ja-ma 'what sort of' (-ma is an adjectival derivational affix, see 6.4.1.2.1), and the noun \(j\) 'eu-ze 'which side' ( \(-z e\) is an nominal derivational affix, see 5.1.2.4).

In quick speech the \(j\) ' \(e\)-initial forms are often pronounced with an initial \(j i\) or simply as \(i\) :- (2.1.4.3). For example, the Dative form may be pronounced either as \(j\) ' \(e-d u\), or as \(i:-d u\), and the Locative form can be \(j\) 'e-le or \(i:-l e\), etc.

\subsection*{9.5.1.1. Interrogative function}

Interrogative pro-nouns function as wh-question words (23.1.1). Syntactically they may act as nominal modifiers within the wh-phrase. In this function they are uninflected and precede the head noun, which must take the \(3^{\text {rd }}\) person personal inflection -ni, similar to the possessive phrase with a nominal modifier (13.1). Attributive agreement in case or number is normally absent. However, we have one counter-example at our disposal (619).
\[
\begin{array}{lll}
\text { a. J'eu xokto-wo-ni } & \text { ise:-i si? }  \tag{618}\\
\text { what footstep-ACC-3SG } & \text { see.PAST-2SG you } \\
& \text { 'Whose footsteps did you see?' } &
\end{array}
\]
\begin{tabular}{llll} 
b. & \(\mathrm{Ni} \quad\) aziga-ni-ni \\
who & eme:-ni? \\
'Whose girl-AL-3SG came?' & \\
& come.PAST-3SG
\end{tabular}
\begin{tabular}{llll}
\begin{tabular}{ll} 
J'eu-zepezi & bi'asa-digi-ni
\end{tabular} & \begin{tabular}{l} 
o-lo \\
what-ABL
\end{tabular} & river-ABL-3SG & this-LOC
\end{tabular}\(\quad\)\begin{tabular}{l} 
ihn-e-i? \\
come-0-2SG
\end{tabular}
'From which river did you come here?' (SK 1108)
Used as independent wh-words interrogative pro-nouns inflect for case. Non-Nominative forms express various wh-questions in argument and adverbial positions (23.1.1). In the subject function the pronoun \(j\) 'eu 'what' in the Nominative triggers Singular agreement on the verb, while the pronoun ni 'who' may trigger both Singular and Plural agreement. Apart from its regular meaning ('to what'), the Dative form \(j\) ' \(e-d w i:-d u\) can mean 'why, what for'. The pronoun \(j\) 'eu 'what' in the Nominative also means 'why' or 'what for' (as in Russian where čto 'what' can mean 'why, what for' in a colloquial speech), cf.:


Repetition of the pronoun \(j\) 'eu or \(j^{\prime} e\)-we intensifies the question, cf.: \(j\) 'eu \(j\) 'e-le-ni 'where on earth' <what what-LOC-3SG>, j'eu j'e-we-ni 'what on earth' <what what-ACC-3SG> (SK 424), cf. also:

J'e-we jemi zexule-i?
what-ACC why behave.badly-2SG
'Why on earth do you behave so badly?' (SK 337)
The Lative form j'eu-xi may be used in the meaning 'which of (them)'.
J'eu-xi zauja?
what-LAT greenling
'Which of (these) greenlings?' (SK 345)

\subsection*{9.5.1.2. Universal meaning}

The repeated Interrogative pronoun \(j^{\prime}\) 'eu \({ }^{\prime}\) 'eu in a corresponding case form can have a universal meaning ('everything' as in (623)) or a 'free-choice' meaning ('whatever', as in (624)). Cf. also \(j\) 'eu j'eu \(i\) :-ni 'everything' where \(i\) :-ni can go back to the same interrogative stem \({ }^{\prime}\) 'eu.
a. J'eu j'eu wo-jo. what what do-IMP.2SG 'Do everything.'
b. Lusa j'eu j'eu xebu-i. Russian what what bring-PRP 'The Russians bring everything.'
c. J'eu j'eu kukpu-ni teu uti doni-ni what what bug-3SG all that in-3SG bie gune. be.PRES.HAB EV
'Apparently, there is everything, all sorts of insects inside it.' (K 191)
\begin{tabular}{|c|c|c|c|}
\hline \begin{tabular}{l}
J'e-we \\
what-ACC
\end{tabular} & \begin{tabular}{l}
j'e-we \\
what-ACC
\end{tabular} & \[
\begin{align*}
& \text { wo:-mi }  \tag{624}\\
& \text { do-INF }
\end{align*}
\] & ge: together \\
\hline \multicolumn{4}{|l|}{ge: wo:-ti.} \\
\hline \multicolumn{4}{|l|}{together do.PAST-3PL} \\
\hline \multicolumn{4}{|l|}{'Whatever they were doing, they were doing it together.' (K 114)} \\
\hline
\end{tabular}

The repeated interrogative adjective ja-ma means 'all, all sort of'.
\begin{tabular}{lll} 
Ja-ma & ja-ma & xazu-i \\
what-ADJ & what-ADJ & belonging-REF take-PRP
\end{tabular}
'They took all their belongings.'

\subsection*{9.5.1.3. Tag question function}

The pronoun j'eu in the Nominative can express a tag question. The verb may be either in the affirmative or in the negative form. The pronoun is typically used sentence-finally, however in (626e) it precedes the verb.
a. Em'e-i
j'eu?
come.PERF-2SG what
'You came, didn't you?'
b. \(\tilde{N} a \quad\) xonto-wo galakta-mi ge: j'eu? more another-ACC look.for-INF bad what
'It is not bad to look for another one, is it?' (K 174)
c. Emus'e bi: j'eu?
alone be.2SG what
'You live alone, don't you?' (SK 427)
d. Bi mamasa-i e-s'e-i ise j'eu? me wife-1SG NEG-PERF-2SG see what
'You didn't did my wife, did you?' (SK 428)
e. yene-mi j'eu manga bi-s'e?
go-INF what strong be-PERF
'It wasn't difficult to go (there), was it?' (SK 428)

\subsection*{9.5.1.4. Substantivization}

The pronoun \(j\) 'eu when substantivized can mean 'things, belongings, property', as illustrated in the following example:
\begin{tabular}{l} 
Sita-na-fi \\
child-DEST-REF.PL \\
ute-ne-fi \\
what-DEST-REF.PL bagdi-e-ti.
\end{tabular}
that live-PAST-3PL
bet-INF

\subsection*{9.5.2. Interrogative pro-adjectives}

Some of the interrogative adjectives are derived from the \(j\) ' \(e\)-base while others are from adverbial interrogative stems (9.5.3). These are:
(628)
adi
ja-ma
ono-fi
ali-fi
adi-(n)ti
adi(-ma)
adi-te
adi-t'e
adi-nina
wogdime
'how many, how much'
'made of what' <what-ADJ>
'what sort of'
'what sort of, from what time'
'which (in number)'
'how many, how much'
'how many to each'
'(only) how many'
'how many (together)'
'how many'
\[
\begin{aligned}
& \text { <what-ADJ> } \\
& \text { <how-ADJ> } \\
& \text { <when-ADJ> } \\
& \text { <how.many-ORD> } \\
& \text { <how.many-ADJ> } \\
& \text { <how.many-DIST> } \\
& \text { <how.many-REST> } \\
& \text { <how.many-COL> }
\end{aligned}
\]

Syntactically, these elements behave like other pronominal modifiers (13.4).
The repetition of the adjective adi(ma) causes the indefinite meaning: adi(ma) adi(ma) 'several', or the distributive meaning: adi adi 'how many to each'. Note also ono-bui-ono-bui 'various'.

\subsection*{9.5.3. Interrogative pro-adverbs}

Independent interrogative pro-adverbs are not formed from the stem \(j\) 'eu but have different bases. The following interrogative pro-adverbs are observed: ali 'when', ono 'how', adi-lie 'how many times' <how.many-MULT>, imi 'why', jay-na-mi 'what for' <what-DIR-INF> (the latter two perhaps go back to the Infinitive form of the interrogative pro-verb). Pro-adverbs are morphologically unchangeable. The adverb ono with the Present participle of the verb 'be' forms a frozen expression ono bi:, ono bie 'what sort of'.
```

(629) Ono bie mamasa-wa gala-i?
how be.PRES.HAB wife-ACC look.for-2SG
'What sort of wife are you looking for?' (K 173)

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\subsection*{9.5.4. Interrogative pro-verb}

The interrogative pro-verb (the only pro-verb found in Udihe) has a stem identical to the Interrogative pronouns: ja-/i:- 'do, do what' (glossed as PROV). Morphologically and syntactically it behaves completely as a verb. It has basically the same categories (mood, tense, aspect, etc.) as regular verbs (see Chapter 7). Further examples of the use of the interrogative pro-verb can be found in section 23.1.1.3.

Co-occurring with the Interrogative object pronoun the pro-verb often means simply 'do', while the pronoun means 'what' (630). However, Indefinite pronouns may be absent and then the interrogative verb itself takes the meaning 'do something, do what' (631).

J'e-we \(\quad j a:-i\) ?
what-ACC PROV.PAST-2SG
'What were you doing?


The fixed expression ono ja:-? (where ono 'how') usually means 'what's going on with ...?', 'what's happening with ...?'.
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{3}{*}{a.} & \multirow[t]{2}{*}{Si-ne you-CONT} & \multicolumn{2}{|l|}{ono ja:-i?} \\
\hline & & how PROV & ST-2SG \\
\hline & \multicolumn{3}{|l|}{'And what is going on with you?' (K 157)} \\
\hline \multirow[t]{2}{*}{b.} & Ono & ja:-ni & sul'ai? \\
\hline & how & PROV.PAST-3SG & fox \\
\hline \multirow{4}{*}{c.} & \multicolumn{3}{|l|}{'What happened to the fox?' (K 154)} \\
\hline & 'Aga & ono ja-za-fi? & \\
\hline & brother & how PROV-SUB & P.IN \\
\hline & 'Brother, w & hat will happen to us & 151) \\
\hline
\end{tabular}

Used in other morphological forms, the interrogative verb can add various nuances to the verbal phrase, such as 'what for', etc., see 23.1.1.3.

\subsection*{9.6. Indefinite pronouns}

Four regular series of Indefinite pronouns exist in Udihe: specific Indefinite pronouns, non-specific Indefinite pronouns, universal (free-choice) Indefinite pronouns, and negative pronouns. All of them are morphologically based on Interrogative pronouns (9.5). In most cases the interrogative elements are followed by the cliticized indefinite particles (on the definition of clitics in Udihe see 3.5.3.1).

\subsection*{9.6.1. Specific Indefinite pronouns}

Specific Indefinite pronouns are used if the referent of the pronoun is not known to the speaker and cannot be identified by him/her, or when the speaker does know the referent but prefers not to reveal it to the listener. Normally they correspond to the English Indefinite pronouns of the series some-, and to the Russian pronouns of the series -to.

Specific Indefinite pronouns are derived from practically all Interrogative pronouns (pro-nouns, pro-adjectives, and pro-adverbs) by means of the indefinite clitic particle \(-k A\) or \(-k A i\) (these forms are free variants), e.g.: j'eu-ke 'something', 'some', ni-ke 'somebody', adi-ke 'some quantity', imi-ke 'for some reason', etc. On the use of the particle \(-k A\) as a focus clitic see 12.1.1.11.1. The indefinite particle occurs before the Accusative case inflection: \(j\) 'eu-kei-we 'something (ACC)'. In the other cases it is located in the word after the case inflection, for example: \(j\) 'e-du-ke (DAT), ni-zi-ke (INST), j'eu-xi-ke (LAT), ni-du-ke (DAT).

The following examples illustrate the use of indefinite specific pronouns inflected for the Instrumental (633a) and (633b), the Lative (633c), (633d), and the Ablative (633e).
\begin{tabular}{lllll} 
a. & Nua-ni \(\quad\) ni-zi-ke & & dia-si--ni. \\
he-3SG who-INST-IND & say-IM-3SG
\end{tabular}

As in the case of the Interrogative pronouns (9.5.1), when an Indefinite pronoun functions as a modifier the head nominal takes a \(3^{\text {rd }}\) person possessive affix.
\begin{tabular}{lll} 
a. J'eu-ke ni:-ni & eme:-ni. \\
& what-IND man-3SG & come.PAST-3SG \\
& 'A certain person came.' &
\end{tabular}
b. 'Ana-zi ni-ke aziga-ni eme:-ni. boat-INST who-IND girl-3SG come.PAST-3SG 'A certain girl came by boat.'

Example (635) illustrates the use of an indefinite pro-adverb.
Od'o i:mi-ke gakti-e-ni.
old.man why-IND freeze-PAST-3SG
'The old man got frozen for some reason.'

\subsection*{9.6.2. Non-specific Indefinite pronouns}

Non-specific Indefinite pronouns are used when the speaker not only cannot identify the referent, but may not even be sure whether such a referent exists. Thus, they have a non-referential reading and can also refer to a potential class of objects, that is, they may have a generic interpretation. Such pronouns usually correspond to the English pronouns of the some- or -ever series, and Russian non-specific pronouns of the -nibud' or by ni series. They are not attested with a modifier function.

\subsection*{9.6.2.1. Derivation}

Non-specific Indefinite pronouns are derived from interrogative pro-nouns and pro-adverbs by means of the clitic -dA, e.g., ni-de 'somebody', j'e-le-de 'somewhere', ni-digi-de 'from somebody', ni-we-de 'somebody (ACC)'. This particle always follows the case inflection in the word. On \(-d A\) as an additive focus particle see 12.1.1.3.

\subsection*{9.6.2.2. Functions}

\subsection*{9.6.2.2.1. Indefinite function}

Since non-specific Indefinite pronouns, unlike specific Indefinite pronouns, do not presuppose the existence of the corresponding referent, they are preferably used in sentences marked for the future or irrealis modality (including the evidential). Alternatively, specific Indefinite pronouns are most often used in sentences where the verb takes the Present or Past Indicative form. Compare (636a) and (636b) in this respect.
\[
\begin{array}{ll}
\text { a. } & \text { Ni-de } \quad \text { eme-zene-ni. }  \tag{636}\\
\text { who-IND come-FUT-3SG } \\
\text { 'Somebody will come.' }
\end{array}
\]
b. Ni-ke
eme:-ni.
who-IND come.PAST-3SG
'Somebody came.'
More examples for the non-specific Indefinite pronouns follow.
a. J'eu-de
gada-la-mi
nixe-ini. what-IND
buy-PURP-SS
do-3SG
'He is going to buy something.'
\begin{tabular}{lll} 
b. & I:-le-de & nede:-ni \\
what-LOC-IND & put.PAST-3SG & bize. \\
& must
\end{tabular}
c. J'e-zi-de xuai-zene-i.
what-INST-IND cut-FUT-1SG
'I will cut (it) with something.'

Examples (638) demonstrates the generic reading of the non-specific Indefinite pronoun. In (638b) a universal meaning is rendered through the indefinite pro-verb ja- (9.3.4) combined with the clitic \(-d A\).
\begin{tabular}{lll} 
a. & \begin{tabular}{l} 
J'e-we-de \\
what-ACC-IND
\end{tabular}\(\quad\) zawa-ini & take-3SG \\
e-legu-mi \\
e-lege-ni & tagda-gi.
\end{tabular}
\begin{tabular}{lll} 
b. & Ono \(\quad\) ja:-ni-de & eme-gi-zene-ni. \\
how \(\quad\) PROV-3SG-IND & come-REP-FUT-3SG \\
& \\
& 'He will return, whatever happens.'
\end{tabular}

The generic interpretation of the non-specific Indefinite pronouns also arises within a generalized relative clause, a non-finite one (19.5), or a finite one (18.3.2.1). For example, in the embedded clause \(j\) 'e-digi-de emegisi: 'wherever I came from' the Indefinite pronoun \(j\) ' \(e\)-digi-de in the Ablative denotes the whole class of objects to which the corresponding predication may be applied. Further examples of this use can be found in the corresponding sections.

\subsection*{9.6.2.2.2. Interrogative function}

Non-specific Indefinite pronouns are used as Interrogative pronouns within embedded non-finite questions (see 23.1.4.2).

\subsection*{9.6.2.2.3. Negative function}

Negative pronouns and adverbs are morphologically identical to the non-specific Interrogative pronouns and adverbs formed with the particle \(-d A\), for example: ile-de 'nowhere', ali-de (or ali-ali-de) 'never', ni:-de 'nobody', \(n i\) :-zi-de 'with nobody', \(j\) 'e-uxi-de 'to nowhere' (LAT), \(j\) 'e-we-de 'nothing' (ACC). In other words, the polarity of the indefinite non-specific pronouns depends on the general polarity of the sentence in which they occur. On the use of the negative pronouns and adverbs, see 23.2.

Note also the negative adverb: emne-de 'not even once' (from emne 'once'). The numeral omo 'one' followed by the particle -do means 'not a single' under the scope of negation.
\[
\begin{array}{llll}
O-d u & \text { omo-do } & \text { g'aja } & \text { anči. }  \tag{639}\\
\text { this-DAT } & \text { one-FOC } & \text { duck } & \text { no }
\end{array}
\]
'There is not a single duck here.'

\subsection*{9.6.3. Universal (free-choice) pronouns}

The universal pronouns correspond to the English pronouns of the any- or every- series. They can express the possibility of choice ('any of') or they may have a generic meaning ('all', 'every').

\subsection*{9.6.3.1. Derivation}

The standard way of forming universal Indefinite pronouns is by adding the particle dexem(i) (its reduced form is dem) to the interrogative pro-nouns and pro-adverbs. Examples are: ni dexemi 'any, every, everybody', j'e-we dexemi 'any, every, everything', ali dexemi 'at any time', i:le dexemi 'everywhere', \(j\) 'e-uxi dexemi 'to everywhere', etc. The particle dexem(i) is not a clitic: it bears a separate phonological stress and does not follow the vowel harmony of the preceding word.

The universal expression ono bi: dexemi 'any, of any kind' contains the interrogative adverb ono 'how', the Present active participle of the copula verb \(b i\) :, and the universal particle dexemi. This expression structurally corresponds to a relative clause and functions as a modifier, as shown in (640).
(640) a. Bi ono bi: dexemi bui-we aju-mi. me how be.PRP IND animal-ACC like-1SG 'I like all animals.'
\(\begin{array}{llll}\text { b. } & \text { Eineyi ono bi: dexemi ni: } & \text { eme:-ti. } \\ \text { today how be.PRP IND man } & \text { come.PAST-3PL } \\ \text { 'Today all sorts of people came.' }\end{array}\)

\subsection*{9.6.3.2. Function}

For obvious semantic reasons, the sentences with universal pronouns in argument positions often involve the Habitual verbal forms, as in (641).
a. \(\begin{array}{ll}\text { I:-le } & \text { dexemi ima:-na. } \\ \text { what-LOC } & \text { IND snow-V }\end{array}\)
'There is snow everywhere.'
b. J'e-zi dexem(i) nele-ini.
what-INST IND be.afraid-3SG
'He is afraid of everything.'
c. \(N i\).
bejeku-ni
\(i:-l e\)
what-LOC
dem
man similar-3SG what-LOC IND
bie.
be.PRES.HAB
'There are people similar to other people everywhere.' (K 167)
\begin{tabular}{llll} 
d. J'eu dem j'e-ni & bie & gune. \\
what IND what-3SG be.PRES.HAB & EV \\
'Apparently, there are all sorts of things.' (K 191) &
\end{tabular}

In the subject position an indefinite universal pronoun normally triggers Plural agreement on the finite verb.
(642) \begin{tabular}{llll}
Ni & dexemi & teu & sa:-du. \\
who & IND & all & know-PL
\end{tabular}
'Everybody knows.'

\subsection*{9.6.4. Other types of Indefinite pronouns}

Some morphologically rare types of both specific and non-specific Indefinite pronouns are also based on the Interrogative pronouns, but include affixes other than those described in sections \(9.6 .1-9.6 .3\). Such pronouns can be illustrated only by occasional examples, and it is therefore difficult to draw a definite conclusion about their distribution and meaning. Here we will simply cite the relevant examples without commenting on them at length.

\subsection*{9.6.4.1. Indefinite pronouns formed with compound particles}

The indefinite (both specific and non-specific) meaning can be expressed by the pronouns derived with the complex particles deke or kede. These particles apparently appeared as a combination of the two indefinite clitics \(-d A\) and \(-k A\), but they do not behave as clitics themselves.
a. J'e-digi deke eme:-ni bize. what-ABL IND come.PAST-3SG must 'He must have come from somewhere.'
b. J'e-uxi deke jene-ze-mi. what-LAT IND go-SUBJ-1SG 'I will go somewhere.'
\(\begin{array}{llll}\text { c. } & \mathrm{Ni} & \text { deke } & \text { zawa:-ti } \\ & \text { who } & \text { IND take.PAST-3PL } & \text { bize. } \\ & \text { 'Somebody must }\end{array}\) 'Somebody must have taken it.'
d. Ari (<ali) deke mu:-ze-fi. when IND shamanize-1PL.IN 'One day we will shamanize.' (K 125)

Kanda mafa
bie \(i:\)-le
Kanda old.man be.PRES.HAB
'The old man Kanda lives somewhere.'
kede.
what-LOC IND

In a similar way, the specific and non-specific Indefinite pronouns are sometimes formed with the complex particle dele, which originates from the contraction of the indefinite clitic particle \(-d A\) and the contrastive clitic particle -lA (12.1.1.7).
a. I:-le dele kärkärkär wo:-ni. this-LOC IND INTER do.PAST-3SG
'Shaving (of wood) is happening somewhere.' (K 110)
b. J'eu dele etete-ini gune.
what IND work-3SG EV
'It looks like somebody (something) is working.' ( K 110 )
c. I:-le dele eke:-ni.
what-LOC IND get.stuck.PAST-3SG
'He got stuck somewhere.'
d. j'eu dele amba
what IND evil.spirit
'some evil spirit' (SKX 272)

\subsection*{9.6.4.2. Indefinite pronouns formed with the particle -gu}

The non-specific indefinite meaning seems to be rendered by pronouns derived with the suffix (or the cliticized particle) -gu from the interrogative stem \(j\) ' \(e\)-. Such pronouns are normally repeated twice.
a. Ono-gu ono-gu nixe-te-mi-ze. how-IND how-IND do-PERM-1SG-HORT 'Let me do it somehow.'
b. J'e-we-gu j'e-we-gu
what-ACC-IND what-ACC-IND
gada-ta-mi-ze.
buy-PERM-1SG-HORT
'Let me buy something.'
c. J'eu-gu j'eu-gu
diga-mi teu
what-IND what-IND
eat-INF all
bi-si-ni.
be-PAST-3SG
'He was living all the time, eating something.' (K 134)

\subsection*{9.6.4.3. Indefinite pro-verb}

The meaning of the indefinite pro-verb \(j a\) - is very general, and mainly depends on its morphological form. In (647a) the pro-verb is in the Subjunctive form meaning literally 'let it do something'. In (647b) the Infinitive can be translated approximately as 'doing something'.
a. Ja-za
PROV-SUBJ
mo:gosi-mi.
shamanize-INF
'OK, let us shamanize.' (K 155)
b. Xuli-mi-de ja:-mi-de j'eu
walk-INF-FOC PROV-INF-FOC what
ni: \(\quad\) gagpa-si:-ni?
man s hot-IM-PAST-3SG
'Walking or doing something, which man is shooting (with a bow)?' (K 111)

When co-occurring with the indefinite object pronoun \(j\) 'e-we the indefinite pro-verb means 'do' (648), while when used without the object pronoun under the scope of negation it can mean 'do nothing' (649).
\begin{tabular}{lll} 
a. J'e-we-de & e-si-mi & ja:. \\
what-ACC-IND & NEG-PAST-1SG & PROV \\
& 'I was not doing anything.' &
\end{tabular}
\begin{tabular}{llll} 
b. \begin{tabular}{lll} 
Eineri & ono-do & ja:
\end{tabular}\(\quad\)\begin{tabular}{l} 
b'ono-zo-mi. \\
today
\end{tabular} & how-IND & PROV & catch-SUBJ-1SG
\end{tabular}
'I will catch (you) today whatever happens.' (K 155)
Belie tene ei-de olokto ei-de ja:. fairy CONT NEG-FOC cook NEG-FOC PROV
'And the fairy does not cook, does not do anything.'
On the usage of the indefinite pro-adverb in alternative questions see 23.1.4.

\subsection*{9.6.4.4. The indefinite substitution word ani}

The element ani is a pronominal stem used when a speaker is looking for an appropriate word and cannot recollect it. The stem ani is inflected in exactly the same way as the corresponding constituent in the clause should be inflected. The word that actually has to be in the sentence is normally used within the same sentence immediately following the word ani and bears the same inflectional form. In (650a) the word ani is in the Nominative and replaces the subject (belie); in (650b) and (650c) it is in the Accusative because it replaces the direct object (zakta-wa and xulepte-we, respectively), in (650d) it replaces a verb in the Subjunctive, while in (650e) it replaces a nominal modifier (note the Plural marker -ziga which encodes the semantic plurality of the replaced noun Suajka 'the Suankas'). The element ani is glossed as IND (indefinite).

d. Ñanga-da sin-e-we ani-nde-ze-mi
little-FOC you-0-ACC IND-SEM-SUBJ-1SG
kese-li-nde-ze-mi.
torture-INC-SEM-SUBJ-1SG
'I will - what's the word - torture you a little.'
\(\begin{array}{llll}\text { e. Uti ani-ziga zugdi, Suanka } \\ \text { that } & \text { IND-PL } & \text { house } & \text { Suanka }\end{array}\)
'This is the house of those, the Suankas.'
In a number of cases the same element ani in a corresponding case form functions as an Indefinite pronoun.
a. Ani-le yene:-mi.

IND-LOC go.PAST-1SG
'I was walking somewhere.'
b. Ani-le b'a-mi bi.

IND-LOC find.PAST-1SG me
'I found it somewhere.' (K 111)

\subsection*{9.7. Other determiners}

Pronominal determiners are always used in preposition to the head noun.

\subsection*{9.7.1. Xonto 'another'}

The determiner xonto 'another, other' indicates a choice between several objects, cf.:
a. \(\begin{aligned} & \text { Bi ei in'ei-we xonto in } \\ & \text { me this dog-ACC other } \\ & \text { aju-mi. } \\ & \text { like-1SG }\end{aligned}\)
'I like this dog more than other dogs.'
b. Xoyto ba:-tigi wele-mi
other place-LAT cross-INF
kämbu-was-u-ji.
sacrifice-DIV-PAS-PRP
'Going to the other place (mountain), one makes a sacrifice.'
(K 123)

\subsection*{9.7.2. Gagda 'another, the other'}

The determiner gagda 'another, the other' means 'one of the pair', 'opposite', and expresses the idea of choosing between the two possible candidates. They may be paired objects, for example, body parts, and in this case the word gagda expresses singularity, often in combination with the numeral omo 'one' (4.2.1.1).

b. Omo
one
gagda
gagda
nala-zi hand-INST olokto-i, omo anothe another oño cook-PRP one nala-zi wo:-i.
'With one hand she is cooking, with the other hand she is making ornaments.' (K 165)
c. \(\tilde{N} a\) gagda
again opposite
bä:-tigi xetigene:-ni.
'She again jumped to the opposite bed.' (K 182)
d. Omo
gagda urta lo:-ni.
one half boot hang.PAST-3SG
'One boot was hung up.' (K 143)
Gagda may be used independently. Since it always presupposes a definite set of possible candidates, in this case it has the substantivized possessive form gagda-ni 'the other (of the two)'. The possessive \(3^{\text {rd }}\) person suffix -ni here expresses definiteness, as is typical of definite nominal expressions (4.1.3.3), cf.:
\begin{tabular}{lllll} 
a. & \(\tilde{N a} a\) & uti & omo-lo & zube \\
also & o-gi-e \\
that & one-CONT & two be-RE \\
ti: & omo & gagda-ni & somo-li-ge
\end{tabular}
c. Min-du zube ugda bie omo me-DAT two boat be.PRES.HAB one dampi, gagda-ni imexi. old another-3SG new
'I have two boats, one is old, the other is new.'

\subsection*{9.7.3. Gele~gere 'each, all'}

The determiner gele~gere 'each' is available but very infrequent, cf.:
a. Nua-ti gere ni: mefei sene aju-iti. he-3PL each man REF.ACC.PL only like-3PL 'Each of them likes only himself.'
b. gele golo 'all the countries'
gele xoto 'all the cities'
gele ni: 'all the people' (SK 262)

\subsection*{9.7.4. Pronominal determiners in temporal expressions}

The pronominal determiners gä:na 'every' and omo (... tei) 'whole' are compatible only with partly adverbialized temporal nouns in the Nominative or the Accusative, cf.:
a. Bi ma:ma-i me grandmother-1SG gä:ŋa neŋi-ni zugdi-du bie. be.PRES.HAB
'My grandmother is at home the whole day.'
\(\begin{array}{llll}\text { b. } & \begin{array}{ll}\text { Bi ta:mati } & \text { omo } \\ \text { me last.year } & \text { one } \\ \text { and } & \text { year-3SG }\end{array} \text { be.ill-PA }\end{array}\) 'Last year I was ill the whole year.'
c. omo dogbo
gä:ทa ana-ni
'the whole night'
omo zua
omo ñuทu-me neri-ni tei 'six whole days'
<one six-ACC day-3SG FOC>

\title{
Chapter 10 Adverbs and postpositions
}

\subsection*{10.1. Adverbs}

Adverbs function as verbal modifiers or clausal adjuncts; degree adverbs modify adjectives, nouns and other adverbs. Udihe seems to lack a class of sentence adverbs, with the exception of certain evidential (12.1.2.1) and epistemic (12.1.2.2) elements. Certain adverbs function as predicates in copular constructions (17.2.2.2) and some take sentential arguments (Chapter 20). Adverbs are always optional in the sentence, with the exception of copular constructions, in which they have a predicative function, and in constructions in which they are used in reply to adverbial wh-questions.

Most adverbs are morphologically unchangeable, although some have a transparent morphological structure and go back to nominal inflectional categories (case forms). Case-inflected form a deficient paradigm, but each member of the paradigm can be viewed as a separate lexical entry. Adverbs derived or converted from nouns may preserve certain nominal properties, such as being combinable with certain postpositions. In other syntactic properties they contrast with nouns: adverbs cannot be modified by an adjective or a possessive modifier, but only by other adverbs. A number of manner adverbs formally coincide with qualitative adjectives, or are derived from them. Some spatial adverbs have much in common with spatial postpositions, and are often based on the same stem (10.2). However, unlike postpositions, adverbs do not take nominal arguments that may be cross-referenced by personal inflections.

This section is based on a semantic classification of adverbs: spatial adverbs (10.1.1), temporal adverbs (10.1.2), manner adverbs (10.1.3), and degree adverbs (10.1.4). The semantic classification is highly conventional because a number of adverbs are polysemantic and render two or more meanings, e.g. tuge 'quickly' and 'soon' (a manner and temporal adverb); go: 'far away' and 'a long time' (a spatial, temporal, or manner adverb). The adverbial derivation is addressed within each particular section. Section 10.1.5 concentrates on "frozen" adverbial collocations; section 10.1.6 describes adverbial reduplications. The general properties of the adverbial phrase are discussed in 10.1.7.

On adverbs based on pronominal stems (pro-adverbs), see Chapter 9. Adverbial functions performed by nouns in different oblique cases are described under 15.1.4.

\subsection*{10.1.1.Spatial adverbs}

Spatial adverbs with locative, lative, ablative, and prolative semantics are derived from local cases of spatial nouns. Adverbs that denote the same localization and form various series of related words based on the same stem will be referred to as serial adverbs (10.1.1.1). There are no spatial adverbs that go back to the Nominative, Destinative, and Partitive case forms, and some other individual "lacunas" are possible. Furthermore, adverbial case inflections deviate slightly from nominal inflections (4.1.3).
\begin{tabular}{ll}
\multicolumn{1}{c}{ nouns } & adverbs \\
ACC \(-w A,-m A\) & \(-w A,(')-f A\) \\
DAT -du & \(-d u,-n u\) \\
LOC -lA, -dule & \(-l A\) \\
ABL -digi & - -digi, -nigi \\
LAT -tigi & \(-t i g i,-u x i /-i x i,-z A \eta A z i,-l i g d e /-\) lAgdA \\
PROL -li, -dili & \(-l i\) \\
INST -zi & \(-z i\)
\end{tabular}

The adverbial Ablative in \(-z A-\eta A z i\) seems to be derived from spatial nouns in \(-z A\) (5.1.2.3) with some kind of adverbial Ablative suffix. The Accusative adverbial marker (')-fA does not coincide with the nominal Accusative inflection, cf. \(w\) 'e-fe 'above' and we:-we-ni 'top, surface, upper part (ACC).' However, it is available for some adverbialized nouns, cf.: w'eh-fe b'äs'a-fa 'along mountains and rivers' (SKX 296). The adverbial Accusative forms in '-fA can function as postpositions without personal markers (see 10.2.2). The Ablative in -ligde/-lAgdA is attested only for a few adverbs. We do not have enough information to deduce how its meaning differs from that of the regular Ablative. As a rule the adverbial case suffixes tend to be replaced with standard nominal ones.

Non-serial spatial adverbs (10.1.1.2) are typically based on one 'frozen' case form, and do not make paradigms.

\subsection*{10.1.1.1. Serial adverbs}

Serial spatial adverbs are derivationally related to spatial adjectives in -uxe (6.4.1.3.2) and spatial nouns in \(-z A\) (5.1.2.3). The latter demonstrate some adverbial features.

Case forms of adverbs have basically the same meaning as the corresponding case forms of nouns (4.2.2), with the following adjustments. The Accusative denotes a very general location in space, for example, c'a-fa 'in the space behind', uig'e-fe 'in the space above', etc. The Instrumental is basically synonymous with the Prolative: both correspond to the meaning 'along the
place, through the place'. The Ablative in \(-z A-\eta A z i\) seems to express a more general destination ('from the space below') than the more finely specialized Ablative in -digi-nigi ('from below'); however, their distribution is not clear.

\subsection*{10.1.1.1.1. General orientation}

The table below presents the series of the most important spatial adverbs of general orientation; lacunas in the paradigms are shown with hyphens.

Table 8. Spatial adverbs of general orientation


As illustrated in the table, roots differ slightly from case to case, and the paradigms are incomplete. The adverbs go: 'far' and da:s'a 'near' can be used in an uninflected (Nominative) form. The following examples demonstrate the use of spatial serial adverbs.
a. \(\quad\) nene-ze-fi
go-SUBJ-1PL.IN
'Let us turn back.'
amä-ixi.
back-LAT
b. D'o-fo nagda:-ni inside-ACC get.PAST-3SG '(The fish) got into the mouth.'
c. Cai-le we: ise-pte. far-LOC hill see-DEC
'Far away a hill can be seen.'
d. Susa-gi-li, escape-REP-3SG back-ABL take.over-INC-3SG tokö. cloud
'He went back, the cloud began to overtake him from behind.'
e. Da:-la ana-mi-ze-i.
near-LOC night.shelter-V-SUBJ-IMP.2SG
'Stay nearby overnight.' (K 113)
Some spatial adverbs also have a temporal meaning (10.1.2.4.).

\subsection*{10.1.1.1.2. Orientation relative to the river or the fireplace}

Since the life of the Udihe people is closely associated with rivers, orientation relative to the river is the most detailed semantic field of adverbs. Generally speaking, adverbial series specialize in expressing three different localizations: relative to the direction of the stream, relative to the riverbank, and relative to the side of the river. As is typical of some other Siberian languages (for example, Selkup and Ostyak), the same system of spatial adverbs is also used to render orientation relative to the fireplace, as placed in a traditional dwelling. The parallelism of the "inner" world (the home with its center, the fireplace) and the "outer" world with its center, a river, is represented in Table 9.

Table 9. Orientation to the river and the fireplace
\begin{tabular}{lll}
\hline orientation to the river & orientation to the fireplace & adverbial stem \\
\hline \begin{tabular}{l} 
'riverbank, space on land near \\
the water' \\
'the opposite side of the river'
\end{tabular} & 'place near the fire' & 'the opposite side of the dwelling' \\
'space far from the river' & \begin{tabular}{l} 
'pagä:(za)- \\
slope of far from the fire, at the pitch
\end{tabular} & die-, di:- \\
\hline
\end{tabular}

In addition, two adverbial stems indicate orientation in relation to the flow of the river: soli-/solö- 'upstream' and ezi(ze)-lezie- 'downstream'.

The paradigms are given in the table below. Not all the forms theoretically possible are actually available.

Table 10. Adverbs of orientation to the river and the fireplace
\begin{tabular}{|c|c|c|c|c|c|}
\hline & 'upstream' & 'downstream' & 'river bank, fireplace' & 'far from the river or the fire' & 'across the river, the dwelling' \\
\hline ACC & solie-fe & ezie-fe & ク'ä-fa & di(g'e )-fe & bag'ä-fa \\
\hline DAT & soli-nu & \(e z i-n u\) & ŋä:-nu & di:-nu & bagä:-nu \\
\hline LAT & soloi-xi & eiei-xi & ndi-ixi & di:-xi & bagä-ixi \\
\hline LOC & soli-le & ezi-le & nä:-la & di:-le & bagä:(za)-la \\
\hline PROL & - & - & ŋä:-li & di:-li, die-li & bagä:-li \\
\hline INST & solö-zi & - & ŋä:-zi & - & bagä:-zi \\
\hline ABL & solö-nigi, solö-digi, solö-ze-yezi & \begin{tabular}{l}
ezize-digi, \\
ezi-ze-ทezi
\end{tabular} & nä:-nigi, クä:-digi & \begin{tabular}{l}
di:-nigi, \\
di:-ligde
\end{tabular} & bagä:-nigi, bagä:-lagda, bagä-za-nazi \\
\hline
\end{tabular}

The adverbs of the series bagä:(za)- also have the more general meaning 'opposite side'.
\begin{tabular}{lll} 
Z'oto & bagä:-za-la & te:-i. \\
otter & opposite-N-LOC & sit-PRP
\end{tabular}
10.1.1.1.3. Adverbial expressions with the stem ba:(za)- 'outside'

Compound adverbial expressions based on the noun ba: (bua) 'place, taiga, space, sky, outside place' or its nominal derivative ba:-za indicate orientation in the forest/taiga (remarkably, Udihe lacks a specialized noun with the meaning 'taiga'). Such expressions include the postpositional element xo:-ni 'top' or ge:-ni 'surface', inflected for the \(3^{\text {rd }}\) person Singular Possessive. The latter loses vowel length and independent stress, and is pronounced as a single phonological word with the element ba:-za. In the Accusative personal inflections are absent, as is otherwise typical of the Accusative postpositions (10.2.2). Prolative and Instrumental forms have not been attested.

Table 11. Adverbial expressions of orientation in the taiga
\begin{tabular}{lll}
\hline NOM & ba:-za ge-ni 'forest, taiga' & ba: xo:-ni 'forest, taiga' \\
\hline ACC & ba:-za g'e-fe & ba: \(x\) 'o-fo \\
DAT & ba:-zage-di-ni & ba: xo:n-dile-ni \\
LAT & ba:-zage-ti(gi)-ni & ba: xo:n-ti(gi)-ni \\
LOC & ba:-zage-le-ni & ba: xo:-le-ni \\
PROL & - & - \\
INST & - & - \\
ABL & \(b a:-z a g e-d i g i-n i ~\) & \(b a: x o: n-d i g i-n i\) \\
\hline
\end{tabular}

The two adverbial series in question seem to be synonymous when they concern orientation in the taiga, but the first series (ba:-za ge-ni) has in addition the more general meaning 'outside', cf. (660a).


\subsection*{10.1.1.2. Non-serial spatial adverbs}

In this section we shall confine ourselves only to some examples interesting from the derivational point of view.
(i) do-lo do-lo 'in the very middle' is the result of the repetition of the Locative form of the stem do:- 'inside' with a somewhat intensified meaning, cf.:
(661) Do-lo
inside-LOC inside-LOC
nede.
'Put in the very middle, deeply inside'.
(ii) The following two words are in transition from the class of nouns to the class of adverbs:
\begin{tabular}{lll} 
zukti(gi) 'home' & <zugdi-tigi & 'to the house' <house-LAT> \\
zugdu & 'at home' & <zugdi-du
\end{tabular} 'in the house' <house-DAT>

For the first word various phonetic forms (zuktifi, zuktigi, zugditigi, zugdi:, and zukti:) are used interchangeably.
a. Uta-digi jene:-ni jegdige zugdi-tigi. that-ABL go.PAST-3SG hero house-LAT 'Then the hero went home.'
b. Zugdi:
house.LAT
'He went home.'
nen'e.
go.PERF
(iii) The nominal stem uke 'doorway' takes the adverbial Dative suffix -nu, cf. \(u k e-n u\) 'in the doorway' (adverb) and \(u k e-d u\) 'by the door' (noun).

\subsection*{10.1.2.Temporal adverbs}

Adverbs of change and continuation as such are missing. The corresponding semantics ('already', 'still', etc.) are commonly rendered by focus particles that may have adverbial force (Chapter12), and by the universal quantifier teu in the adverbial function (11.2.2.1.3). The meaning 'already' may be implied by the Perfect verb (7.8.1.3.1).

\subsection*{10.1.2.1. Calendrical adverbs}

Examples of calendrical adverbs of different semantics, such cyclic adverbs (664a) and deictic adverbs (664b), are given below.
a. tue
timadule \(\leftarrow\) tima-dule
<morning-LOC>
sikie
sikiene (SKX 90)
b. ta:mati
te:meti (Schneider 1936: 71)
einen \(i \leftarrow\) ei nenini
<this day>
timana(ni) \(\leftarrow\) tima nerini
<morning day>
tineni \(\leftarrow t i:\) nenini
<that day>
ti:ñozi \(\leftarrow\) tineni ño:zi
'in the winter' 'in the morning'
'in the evening' 'early in the evening'
'last year' 'many years ago' 'today'
'tomorrow, the next day'
'yesterday'
'the day before yesterday'

Adverbs of season and most adverbs of time of day are morphologically the Nominative form of the temporal nouns. The Nominative form of these adverbs has the continuative meaning. The starting and the final point in time, its periodicity, and other more subtle nuances of temporal characteristics are
expressed by combinations with the temporal postpositions (10.2), and with the Ablative and Lative cases (15.4.2) in their temporal meanings.
timana(ni) ca:-la-ni <tomorrow after-LOC-3SG> aja teun-di-ni <year all-DAT-3SG>
nenini teun-di-ni <day all-DAT-3SG> timana dexi <tomorrow till>
'the day after tomorrow'
'every year'
'every day'
'till tomorrow'

The corresponding temporal nouns are mostly used deictically and have a definite interpretation (4.1.3.3.2).

\subsection*{10.1.2.2. General time adverbs}

General time adverbs may be deictic, or express indefinite time. Some of them are listed below.
```

anana $\leftarrow$ ana-ana (cf. ana-pti 'former') 'long ago'
bis'esi $\leftarrow b i$-s'e-si <be-PERF-PC> 'then, later'
imexizi $\leftarrow$ imexi-zi <new-INST> 'recently'
tugezi $\leftarrow$ tuge <quick-INST> 'soon'
w'atani $\leftarrow$ w'atanayi (cf. w'ata-pti 'recent') 'just, recently (today)'
xa:ndini $\leftarrow x a: n$-di-ni <some-DAT-3SG> 'sometimes'
bimi $\leftarrow b i-m i<b e-\mathbb{N F}>$

```
'long ago'
'then, later'
'recently'
'soon'
'just, recently (today)'
'sometimes'
'later, after a while'

Examples:
a. Mendele jexe-ini. often sing-3SG
'He often sings.'
b. Baita kimpi-gi-e:-ni. temporarily close-REP-PAST-3SG 'It is temporarily closed.'
c. Ele
čaja xuili-li-e-ni. soon tea boil-INC-PAST-3SG
'The tea is about to boil.'
d. Anana bi in'ei-we zawa-si-ge-i. long.ago me dog-ACC take-IM-PERF-1SG 'Long ago I took a dog.'

A number of time adverbs are derived through metaphorical transition from spatial adverbs based on the stems no:-, amä:-, da:s'a, go:, cai-.
\begin{tabular}{ll}
\begin{tabular}{l} 
da:s'a-zi \\
<near-INST> \\
go:(-zi) \\
<far-INST> \\
cai-xi \\
<far-LAT> \\
amä:-li
\end{tabular} & 'for a short time, briefly, shortly' \\
\begin{tabular}{l} 
<back-PROL> \\
amä-la-ni
\end{tabular} & 'long time' \\
\begin{tabular}{l} 
<back-LOC-3SG> \\
\(\tilde{n}\) 'o-fo \\
<before-ACC>
\end{tabular} & 'from this time onwards' \\
\begin{tabular}{l} 
no:(n)-du, \\
<bo:(n)-do \\
nofore-DAT> \\
no-li, non-dili, noxo-li \\
<before-PROL>
\end{tabular} & 'after, later'
\end{tabular}

Cf. the spatial (669a) and temporal use (669b) of the same adverb:
\begin{tabular}{llll} 
a. & Lučegor-tigi & nene-mi & ketu \\
Luchegorsk-LAT & go-INF & very & long
\end{tabular} 'It takes a long time to travel to Luchegorsk.'
b. Go:-tigi e-zi jene. long-LAT NEG-IMP.2SG go
'Do not go far away.'

\subsection*{10.1.3. Manner adverbs}

Manner adverbs are a morphologically and semantically heterogeneous class of verbal modifiers. They render various manner semantics and can possess additional meanings (temporal, causal, degree, limitational, etc.). Morphologically simple manner adverbs are presented in Chapter 26. We shall concentrate here on morphologically derived adverbs (10.1.3.1) and ideophones (10.1.3.2).

\subsection*{10.1.3.1. Derived adverbs}

Deadjectival derivation with the suffix \(-z i\) (10.1.3.1.1) through conversion of the bare adjective (10.1.3.1.2) is very productive; other derivational means
addressed under 10.1.3.1.3-10.1.3.1.7 lack productivity. Affixes specialized in adverbial derivation are glossed as ADV.

\subsection*{10.1.3.1.1. Adjectival adverbs in -zi}

Adjectival qualificative adverbs are derived through lexicalization of the Instrumental case of adjectives in -zi. This pattern can be used with practically any qualitative adjective (670a), adjectival quantifiers, and pronominal determiners ( 670 b ), for example:


Qualitative adverbs derived from adjectives are the principle means to express the qualificative characteristics of an action. They may be cognate with the verb they modify, cf. (671f).
a. Xokto-ni ge:-zi ise-pte-ini.
track-3SG bad-INST see-DEC-3SG
'The track is poorly visible.'
b. \(S i\)
paki-zi sugzä-ma:-i.
you skilful-INST fish-V.PAST-2SG
'You fished skillfully.'
c. \(B u \quad x u n ̃ a z i-z i-f i \quad\) sebzeŋke-zi
we.EX sister-INST-REF.PL interesting-INST
gusi-ge-u.
play-PERF-1PL.EX
'We were playing interestingly with my sisters.'
d. yene-je
eke-zi.
go-IMP.2SG slow-INST
'Go slow.'
e. Tukca manga-zi simpi-li-e-ni. hare strong-INST sneeze-INC-PAST-3SG
'The hare started sneezing very strongly.'
\(\begin{array}{llll}\text { f. } & \text { Bi anda-i } \quad \text { bou-zi } & \text { bogo:-ni. } \\ & \text { me friend-1SG } & \text { fat-INST } & \text { grow.fat.PAST-3SG } \\ & \text { 'My friend grew fat.' } & \end{array}\)

The same derivation is typical of adverbs derived from non-qualificative adjectives of nationality.
a. Ñoni: si ninka-zi can.2SG you Chinese-INST 'Can you speak Chinese?'
b. Ei ima-ŋku-we udie-me-zi ima-si-se. this tell-N-ACC Udihe-ADJ-INST tell-IM-PRP.PAS 'This tale is told in Udihe.'

In some cases the adverb in -zi co-occurs with a derived denominal verb and refers to the quality of the base noun incorporated into the verbal form.
\[
\begin{align*}
& \text { Bi čaligi-zi mo:pti-le-zene-i. }  \tag{673}\\
& \text { me white-INST scarf-V-FUR-1SG } \\
& \text { 'I will put on a white scarf.' (SKX 84) }
\end{align*}
\]

Adjectival adverbs derived with the suffix -zi show formal parallelism with the Instrumental forms of adjectives used as secondary predicates or depictives (19.6). Yet they contrast semantically and are restricted to a different set of syntactic environments: depictives characterise a subject or object participant and modify a noun phrase, whereas adverbs express the qualificative features of the action itself, and modify the verb. This difference is indirectly shown by the fact that depictive adjectives express Plural agreement with the corresponding argument (19.6.2.3), while adverbs are never morphologically marked for the Plural.
*Xul'a-ŋku-zi sei-de:-ni.
extra-PL-INST salt-V.PAST-3SG
'(She) put on too much salt.'

\subsection*{10.1.3.1.2. Adverbs derived through conversion}

It is noteworthy that adjectival adverbs may be derived simply through the conversion of the base adjective. In this case they correspond to the bare adjectival form.
a. Aja bagdi-e-ti.
good live-PAST-3PL
'(They) lived well.'
b. aja in'ei
good dog
'a good dog'

Adjectival adverbs derived from the Instrumental form in -zi (10.1.3.1.1) and those derived through the conversion of the bare stem seem to be used interchangeably. Examples of qualificative adverbs derived through conversion are presented in (676). Free variations in the use of these two types of adverbs are illustrated in (677).
a. Uta that soft go.PAST-EXPR
eke xebu-se:-k quite take-EXP.PAST-EXPR
kä:-tigi-ni, side-LAT-3SG 'Then (she) came quietly nearer and took the kerchief on the sly.'
b. Uligdig'a karasila-sa. beautiful paint-PP.PAS 'It is beautifully painted.'
\(\begin{array}{llll}\text { a. } \begin{array}{lll}\text { Nua-ni } & \text { min-digi } & \text { tuge-(zi) }\end{array} \quad \begin{array}{l}\text { gäna:-ni. } \\ \text { he-3SG } \\ \text { me-ABL }\end{array} & \text { fast-(INST) } & \text { walk.PAST-3SG }\end{array}\)
'He walked faster than I did.'
b. Si zä:-wa xul'a-(zi) bu-o:-i.
you money-ACC extra-(INST) give-PAST-2SG
'You gave extra money.'
10.1.3.1.3. Adverbs derived with the suffix \(-i\)

Certain manner adverbs that normally co-occur with motion verbs are derived with the suffix -i. Some of them represent converted forms of the Present active participles.
(678)
\begin{tabular}{ll} 
lofo-i & 'without skis' \\
sagba-i & 'barefoot' \\
kaydu-i & 'in two' \\
bigze-i & '(walk) bow-legged'
\end{tabular}
\begin{tabular}{ll} 
omoc'o-i & 'constantly' \\
nepte- \(i\) & 'unbuttoned' \\
kaydugu-i & 'a half' \\
xurte- \(i\) & 'headlong (fly)' \\
& (K 186)
\end{tabular}

Examples:
\begin{tabular}{lllll} 
a. & Tuxi \(\quad\) sikte-ni & kaydu-i & buktag'a. \\
sledge runner-3SG in.two-ADV & break.PERF
\end{tabular}
10.1.3.1.4. Adverbs derived with the suffix -pti(gi)

The suffix -pti(gi)~-ktigi derives manner adverbs often denoting spatial location from verbs and adjectives.
\begin{tabular}{|c|c|c|c|}
\hline wani-ptigi & 'widely' & wani-mi & 'wide' \\
\hline xugu-ptigi & 'inside out' & xugu- & 'turn inside out' \\
\hline nene-ptigi & 'sloping, awry' & nene- & 'go' \\
\hline kuzi-ktigi & 'prone' (K 252) & kuzi- & 'bend down' \\
\hline kuzu-ptigi & \begin{tabular}{l}
'on the stomach' \\
(Schneider 1937: 120)
\end{tabular} & & \\
\hline buli-ptigi & '(stroke) from head to tail' & bule- & 'stroke (an animal)' \\
\hline kumte-ptigi & 'upside down' & kumte- & 'overturn' \\
\hline ele-ptigi & \begin{tabular}{l}
'properly, normally' \\
(K 314)
\end{tabular} & ele- & 'be sufficient' \\
\hline ogdo-ptigi & 'from side to side' & ogdo & 'side' \\
\hline be-ptigi & 'alike' & bu:-fi & 'like' \\
\hline sebie-pti & 'last time' & sebie & 'before, earlier' \\
\hline
\end{tabular}

Examples:
\begin{tabular}{llllll} 
a. & Si \(\quad\) teu \(\quad\) kida-ptigi & m'ei & telupu-si.: \\
& you all vice.versa-ADV & only & tell-V.2SG \\
& 'You say everything vice-versa.' & &
\end{tabular}
b. yene-ptigi-le
tikpe-ne:-ni
go-ADV-CONT nail-V.PAST-3SG
'He hammered a nail awry.'
c. Tege-we xugu-ptigi teti-e-i
gown-ACC inside.out-ADV dress-PAST-1SG
'I put on the gown inside out'
\begin{tabular}{lllll} 
d. & Bugdi ebe nede-isi & wani-ptigi & nede-i-es \\
leg & so & put-PC & wide-ADV & put-PRP-DIS
\end{tabular}

\subsection*{10.1.3.1.5. Adverbs derived with the suffix -lV}

The following adverbs are derived with the suffix -löu-löi (682a) or -lie (682b). Whether these affixes are related is hard to say. The latter may go back to the Prolative affix -li.
a. logzo-löu 'arched one's back'
bugzali-löi 'hopping out'
zayzali-löu 'skipping'
tekce-löu 'like a black dot' (of an approaching arrow) (K 152)
b. monto-lie 'in a circle, around', cf. monto 'circle'
cagba-lie 'up, on end'
mogo-lie 'around', cf. mogüö 'round box made of birch bark'
čigdeme-lie 'with a thin waist' (SK 1070), cf. čindem
Examples:
\begin{tabular}{lll} 
a. & \begin{tabular}{l} 
Monto-lie \\
circle-ADV
\end{tabular}\(\quad\)\begin{tabular}{c} 
ana- \\
nisht.shelter-V-PAST-3PL
\end{tabular} \\
& '(They) lay down to sleep in a circle.'
\end{tabular}

\subsection*{10.1.3.1.6. Infinitive conversion}

Manner adverbs may be derived through the conversion of the Infinitive in -mi (7.5.3.1). The infinitival affix -mi is present in such a case in its reduced form \(-m\), as commonly occurs in the reduced style of speech (see 2.1.5.3 for phonetic detail). The infinitival form is normally repeated twice, or rarely three times, which brings additional expressivity to the construction in question.

The productivity and the degree of lexicalization of this derivational type is hard to estimate. In principle, virtually every verb can be used in such a way when it denotes an additional alternating or intensive action, cf. the following repeated Infinitives.
(684) akpunda-m akpunda-m
```

`sweeping'
'crying'

```
tukti-m tukti-m
xeti-m xeti-m
c'ofosi-m c'ofosi-m
t'oto-m t'oto-m
zigda-m sigda-m
'climbing'
'shouting'
'scratching'
'carrying on one's back' (K 174)
'glittering' (SK 324)

Examples:
a. Koikoikoi c'ofosi-m c'ofosi-m.

INTER scratch-INF scratch-INF 'He scratches very much.' (K 51)
b. Soŋo-li-e-ni,
cry-INC-PAST-3SG
sojo-m sojo-m
sono-m
tompo:-ni.
spin.PAST-3SG
'She began to cry, cried and spun around crying.' (K 113)
However, certain expressions of this type are definitely lexicalized as manner adverbs.
aja-la-m-aja-la-m 'properly, very well'
<good-V-INF-good-V-INF >
te-kce-m 'sitting for a long time, without moving'
<sit-DUR-INF>
kese-m (kese-m) 'hardly, with difficulty'
<suffer-INF>
iñe-m-iñe-m 'laughing much'
<laugh-INF-laugh-INF >
The compound idiomatic expression sadam-jadam 'in vain, to no purpose (about speaking)' seems to appear following the same morphological pattern from the verb sa:- 'know' and the indefinite proverb ja-. Examples are:
a. aja-la-m-aja-la-m aisigi- 'mend very well'
aja-la-m-aja-la-m kapta- 'wrap very well'
b. te-kce-m te-<sit-DUR-INF sit>
c. Kese-m-kese-m tuxi-we uŋkäla:-ni. suffer-INF-suffer-INF sledge-ACC carry.PAST-3SG 'He was carrying the sledge with difficulty.'
c. Kese-m-kese-m suffer-INF-suffer-INF
bagdi-mi.
live-1SG 'I live in torture.'
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{d.} & Sa-da-m & ja-da-m & tauximdu & \multirow[t]{4}{*}{\begin{tabular}{l}
dian-a-i \\
say-0-2SG
\end{tabular}} \\
\hline & know-V-INF & PROV-V-INF & at.random & \\
\hline & si. & & & \\
\hline & you & & & \\
\hline & 'You do not k & but speak at r & dom.' & \\
\hline
\end{tabular}

\subsection*{10.1.3.1.7. Other derived adverbs}

The (Instrumental) suffix -zi can derive manner adverbs from grammatical classes other than adjectives, such as nouns (688), numerals (689), and other adverbs (690).
\begin{tabular}{lll}
\begin{tabular}{ll} 
begdi-zi & 'on foot' \\
tege-zi
\end{tabular} & 'dressed' & <foot-INST> \\
<gown-INST>
\end{tabular}
\(\begin{array}{ll}\text { da:s'a } & \text { 'near' } \\ \text { go: } & \text { 'far' }\end{array}\)
da:s'a-zi
go:-zi
'briefly'
'a long time'

Other manner adverbs derived by various morphological means are listed under (691).
\begin{tabular}{llll} 
eu-nigi & 'across' & ei-nigi & <this-ABL> \\
pazi-g'e & 'separate(ly)' & pazi & 'separately' \\
xufa-lanzi & 'all together' & xufa & 'group' \\
drug'a-fa, dulug'a-fa & 'in two, half' & dul'ayki- & 'middle' + \\
& & & '-fa ACC
\end{tabular}

Examples:
(692) a. zomi-ndi diga-ini steal-ADV eat-3SG
'eats by stealth'
b. Zugdi-we-ni drug'a-fa mudi-li-e-ni. house-ACC-3SG middle-ACC flood-INC-PAST-3SG 'Half of the house was flooded.'
c. Sexi-we drug'a-fa xazala-ja. cloth-ACC middle-ACC cut-IMP.2SG
'Cut the cloth in two.'

\subsection*{10.1.3.2. Ideophones}

Ideophones are a large and distinctive class of manner adverbs in Udihe. They are very expressive and are meant to create a figurative image related to visual, audible or tactile impressions. For this reason they have a special stylistic burden and are typically used in the language of folklore, although some of them are also common in everyday speech. The class of ideophones is of ancient origin. There seem to be no Chinese or other loan words among the Udihe ideophones. Quite a number of them are of Tungus origin and are present in related Tungus languages. We will not attempt here to make any classification of ideophones with respect to sound symbolism and related topics, although obviously such a study would be legitimate. On certain phonetic peculiarities of ideophones see 2.2.1.2, 3.1.1 and 3.6.3.5.

In 10.1.3.2.1 we address the syntactic behavior of ideophones; in 10.1.3.2.2 certain derivational peculiarities are discussed. Their semantics and compatibility potential is addressed in 10.1.3.2.3. A representative list of ideophones is given in Chapter 26.

\subsection*{10.1.3.2.1. Syntactic function}

Under certain approaches (for example, Kile 1973; Avrorin 1961: 113), Tungus ideophones are treated as a separate part of speech. However, we find that their syntactic functions are shared by some other manner adverbs, and that there is no reason to analyze ideophones independent of them. Ideophonic adverbs have the following two major syntactic functions: (i) verbal modifiers, and (ii) components of compound adjectives that are mostly used in the predicative position but may function as an attribute as well. Some predicative ideophones take sentential arguments (20.1). In this chapter we address the first "adverbial" function of ideophones, which can be viewed as their prototypical function. Their "adjectival" uses are studied in 17.2.2.6 and 6.4.4.2.3.

Ideophones are sometimes based on onomatopoetic descriptions of sounds; however, they should be distinguished from what we call interjections (12.2.3). Interjections directly express an emotion or sound, and fail to integrate into the syntactic structure at all. Their position in the sentence is absolutely free. Ideophones, on the other hand, somehow characterize verbal action. They are clearly constituents of the clause: first, they can be questioned, and second, they have a rather strict linear position. In the adverbial function ideophones are almost always immediately preverbal or - rarely - immediately postverbal. Unlike interjections, they are compatible with clitic focus particles and in fact take them fairly frequently.
a. Dili-we-ni head-ACC-3SG mamaka
old.woman
'She sought lice, sought them, till the old woman fell asleep snoring.'
b. Tue-we teu tokto:-ni mer-mer-de. pole-ACC all chop.PAST-3SG chop-chop-FOC
'He chopped the pole to the ground.' (K 183)
c. Teti-gi-si-e-ni kur-kur-de. dress-REP-IM-PAST-3SG quickly-quickly-FOC
'He dressed quickly.' (K 183)
d. Xeke-je tie-IMP.2SG 'Tie tightly.'
e. Eme-gi-e-ni come-REP-PAST-3SG
'He came with noise.'
f. Uli-tigi tafak-da tinmele:-ni. water-LAT plump-FOC fall.PAST-3SG
'He fell into water with a plumping noise.'
g. Moxo täsi ule:-we nede:-ni bowl very meat-ACC put.PAST-3SG bogdo-bogdo-do. full-full-FOC
'She put too much meat in the bowl.'
The following example illustrates a rather infrequent word order: the ideophone is separated from the verb by Instrumental nouns.
(694) Zali piak-piak ule:-zi imo-zi sugza-zi barn full-full meat-INST lard-INST fish-INST
zalu-se bi-si-ni.
pack-PAS.PP be-PAST-3SG
'The barn was totally full with meat, lard and fish.' (SK 950)
Ideophones may modify an adjective (695a) or somehow characterize the object of the verb (695b).
a. Mamaka čindem nemnec̆'e bi-si-ni. old.woman with.thin.waist thin be-PAST-3SG 'The old woman had a very thin waist.' (SKX 252)
b. Gäya-gäŋa-gäŋa baŋcala:-ni.
whine-whine-whine kick.PAST-3SG
'He kicked (the dog) so that it whined.' (K 112)

\subsection*{10.1.3.2.2. Derivation}

Ideophones are not derived from a synchronic point of view, although quite a few of them end in \(-m\), which suggests that they may have appeared through the conversion of the Infinitive of ideophonic verbs not preserved in the modern language (cf. 10.1.3.1.2 on the conversion of Infinitives). A large number of ideophones have reduplicated forms, and may sometimes even be repeated three times. Since the non-reduplicated counterpart is typically absent, we will speak of reduplication as a derivational means in this case, as distinct from cases of the expressive repetition of adverbs (10.1.6). Each component of the reduplication bears a separate phonological stress (see also 3.6.3.5). Reduplicated ideophones are written with a hyphen.

In (696) below we present only those non-reduplicated (696a) and reduplicated (696b) ideophones that seem to have related words in Udihe. In (696c) the ideophones that have both a reduplicated and non-reduplicated stem are cited.
\begin{tabular}{ll} 
a. & seze-m \\
pa-m, pa-pa \\
c'a-m \\
kede-m \\
päktä-m
\end{tabular}
\begin{tabular}{lll} 
'shaggy' & seze-ñeñe & 'shaggy' \\
'black' & pa-ligi & 'black' \\
'white' & c'a-ligi & 'white' \\
'spotty' & kede-ligi & 'spotty' \\
'stuck' & päktäsi- & 'clap with
\end{tabular}
noise'
'a kind of
smoke' 'blood'
(SK 771)
\begin{tabular}{ll} 
'pale' & kä-ligi \\
'hardly' & zogbo \\
'stripy' & zü-ligi
\end{tabular}
'pale'
'hard' 'curled' bomboligi 'round' 'thick ŋafu-ñeñe 'thick' (of hair); complete' 'very black' jala:
'wet through' čifonoi
čifo-
bugdumce-bugdumce 'slippery'
lu-lu-lu
bugdu
lu
'coal'
'wet',
'get wet
through'
'slippery'
'quickly'
c. bokčom(-bokčom)
'wrinkled’ bakča 'wrinkle’
bokči(-bokči) 'wrinkled'
nir(-nir)
jig(-jiy)
tafu(-tafu)
'easy to peal'
'impudently'
'through' t'afa 'directly' (SK 867)

Some ideophones are derived by reduplication of the final syllable of the base word: jengute-te(-jengute-te) 'with rumbling', cf. jengute- 'rumble' (SK 71, 421). Generally speaking, expressive reduplication of the final syllable is very typical of ideophons, for example: lebdeli-li-li-li 'fluttering', peso-so 'the sound made by a drinking female deer', and počo-čo-čo 'hissing'.

A few ideophones form compound expressions with the word ja: 'eyes', but otherwise behave syntactically as all other ideophonic adverbs, these are:
\[
\begin{array}{ll}
\text { ja: bugdam } & \text { 'with round eyes' }  \tag{697}\\
\text { ja: pam } & \text { 'with black eyes' (from anger) } \\
\text { ja: } \text { kilum } & \text { 'with suspicious eyes' }
\end{array}
\]

Cf. also:
\(\begin{array}{llll}\text { Meje-i } & \text { pam } & \text { tagda:-ni } & \text { xuda-si: ni: } \\ \text { mind-REF } & \text { black } & \text { get.angry.PAST-3SG } & \text { fur-V.PRP man }\end{array}\)
'The merchant got very angry.'

\subsection*{10.1.3.2.3. Ideophones as verbal modifiers}

Ideophones seem to fall into two classes depending on the semantic burden they bear. Firstly, some ideophonic adverbs bear a certain content characterizing the action described by the verb. They are compatible with several verbs with various meanings. Such ideophones are presented below with a minimal context.
a. täk-täk gekti-täk-täk xeke-
täk-täk likpi-täk-täk zawa-täk-täk obo-lo-
b. cek-cek alasi-cek-cek zawa-si-
c. pali-pali zegde-
pali-pali tokö-no-
d. pete-pete te:gi-pete-pete wendi-le-
'deep freeze'
'tightly wind round'
'plug tight' (K125)
'hold tightly'
'lock fast'
'wait in readiness',
'hold something ready'
'burn till black'
'black cloudy'
'get up quickly' (K 196)
'throw quickly'
e. tey-tey nagbu-si-tey-tey olokto-
f. jin(-jin) kaja-jin(-jin) zawa-
'guess correctly'
'cook in time'
'send somebody impudently'
'take away impudently'

Cf. also the following ideophonic adverbs that occur in various contexts: don-dom 'upright, straightly', namu-namu 'neatly, cozy', \(t u(m)-t u(m)\) 'silently, quietly', cili-cili 'greasy', tafu(-tafu) 'through' (of movement), pafu-ŋafu 'completely', cem-cem 'sharp', and some others. A number of ideophones render the audible or visual impression of movement and are compatible with various motion verbs, such as xuli- 'walk', gäna- 'step', yene- 'go', dieli- 'fly', tipme- 'fell', tukä- 'run', and others. Examples:
\begin{tabular}{llll} 
a. \begin{tabular}{lll} 
Men-e zug-du-i & namu-namu & te:-mi. \\
REF-0 house-DAT-REF & cozy-cozy & sit-1SG
\end{tabular} \\
'I am sitting cozily at home.' & &
\end{tabular}
\begin{tabular}{lllll} 
b. & Uøna & neki & täk-täk & gekti:-ni. \\
& snow.crust & spring & strong-strong & freeze-3SG
\end{tabular}
'The snow crust in spring freezes fast.'
\begin{tabular}{lll} 
c. & \begin{tabular}{l} 
Mamaka \\
old.woman
\end{tabular} & \begin{tabular}{l} 
wopti-we \\
door-ACC
\end{tabular} \\
täŋ-tän \\
strong-strong
\end{tabular}
obo-lo-gi-e-ni.
lock-V-REP-PAST-3SG
'The old woman locked the door fast.'
d. Ba:-la pali-pali tokö-no:-ni.
place-LOC black-black cloud-V.PAST-3SG
'Very black clouds are outside.'
e. nafu-pafu bude-kte:-ti.
complete-complete die-DIS.PAST-3PL
'(They) all died out.'
(701)


On the other hand, most ideophonic adverbs have a very restricted distribution: each combines with a closed class of semantically similar verbs. Ideophonic adverbs of this type are semantically "light": when they co-occur with the verb their only semantic function is to denote a high degree of the realization of the action while the main semantic burden lies on the verb itself. In fact, they can be viewed as degree adverbs. Lacking a better option we may gloss them by the repetition of the verbal stem.
\(\begin{array}{ll}\text { a. } & \begin{array}{l}\text { Bäsa } \quad \text { kuakta-kuakta } \\ \text { stream dry-dry } \\ \text { 'The stream dried entirely.' }\end{array}\end{array}\)
\(\begin{array}{llll}\text { b. } & \text { Lumda-lumda } & \text { guza-li-e:-mi } & \text { bi }\end{array}\) tege-i. \(\quad\) torn-torn \(\quad\) tear-INC-PAST-1SG \(\begin{array}{ll}\text { me } & \text { gown-REF }\end{array}\) 'I tore my gown very much.'
c. Zeu-we kofi-kofi
food-ACC eat-eat eat.PAST-1SG
'I ate all the food completely.'
d. \(\begin{array}{lll}\text { Zugdi-ni } & \text { xaulum } & \text { mude:-ni. } \\ \text { house-3SG } & \text { flooded } & \text { flood.PAST-3SG }\end{array}\) liser
'The house was entirely flooded.'
Note, however, that when semantically light ideophones are used in the predicative function they are combined with semantically neutral copulas (bi'be', wo:- 'make', ede- 'become', nixe- 'do') and bear the semantic information on their own (17.2.2.6).

Below we present a list of collocations of degree ideophones with verbs, which to some extent constitute 'frozen' idiomatic combinations. On some occasions the ideophone may be cognate with the compatible verb (703b).
a. lü-lü ñukto-
zaŋa-zaŋa su:le-
zongo-zongo lukta-
čifu-čifu ñukto-
čif-čif nielesi-
dakcai-dakcai dieli-
sokcom tegi-
bom-bom bokčogi-
ko:yko-ko:ŋko dieli-
sou-sou eikpesi-
pigdäm nüxan-
sifall degde-
gäŋdu-gägdu xaji-
kulu-kulu tetu-
lokto-lokto tanda-
'get wet through'
'be ill (in bed)'
'strip to the skin'
'get wet through'
'bathe in sweat'
'fly flapping wings'
'stand on end (of hair, fur)'
'curl oneself'
'fly flapping wings (of large birds)'
'pant with running'
'stick inside'
'go up (of dust)'
'break completely'
'dress completely'
'torn off by jerks'
ojom tiyme-
pou-pou tamña-
xeku-xeku xetige-
gäll xui-
ceŋe-ceŋe lo:-
jifu-jifu deu-
nir(-nir) nene-
päktam lagbana-
xanga-xanga si:-
piek-čik tugbu-
kuak-kuak xuanti-,
kuak-kuak ŋua-
pice-pice tugbu-,
pice-pice cemne-wekte-wekte teu-,
wekte-wekte taigi-
gäga-gäga
(or zäka-zäka) e:me-
käl-käl nele-
kofi-kofi umi- or diga-
b. kinde-kinde kindesi-
čiŋu-čiŋu čiŋosi-
'fall off in shreds (of fur)'
'dark with fog'
'jump much'
'boil to pulp'
'hang swinging'
'get terribly tired'
'scale off easily (of fish skin)'
'stick immediately'
'squeeze till dry'
'fall with noise'
'sleep snoring'
'smash into smithereens'
'lump up to the top'
'show up from growling
(of dog's teeth)'
'become frightened so that one
gets pale'
'drink or eat something
without leftovers'
'break everything' (K 111)
'swing swinging' (K 122)

Examples:
(704)


\subsection*{10.1.4.Degree adverbs}

On focus particles as degree adverbs see Chapter 12; on ideophones functioning as degree adverbs in individualized verbal expressions see 10.1.3.2.3.
10.1.4.1. Degree adverbs in the adjectival or adverbial phrase

Degree adverbs used within the adjectival phrase (6.3) or adverbial phrase (10.1.7) are listed under (705).
(705) c'o
lä, läs(i), as(i)
belem
zuke
j'eu ba:la-ni
ñanga
cofu
ketu
cum
seuni:
'the most'
'very'
'(even) more; completely'
'hardly'
'much more, a lot'
'a little'
'completely'
'very'
'completely' (only of colors)
'terribly, very much'

C'o participates in the superlative adjectival and adverbial constructions (see 6.3.6 and 10.1.7.3). It may modify a few non-qualificative adjectives, cf.: \(c\) ' \(o\) noxo 'the very first', c'o amäi 'the very last'. The adverbial expression \(j\) 'eu \(b a:-l a-n i\) expresses measure in comparative constructions ( 6.3 .4 and 10.1.7.3). The element ba:-la-ni probably goes back to the \(3^{\text {rd }}\) person Singular possessive Locative form of the noun ba: 'place, nature'.


The adverb belem '(even) more' is also typical of adjectival and adverbial comparative constructions (707), normally when the standard of comparison remains unexpressed (708). It may also mean 'completely' (709). In the Northern dialect it seems to correspond to badi, as illustrated in (710).
(707) a. Bi ag'a-i belem sagdi min-digi-de. me brother-1SG more big me-ABL-FOC 'My brother is even taller than me.'
\begin{tabular}{llll} 
b. & Si egdi-lanki wa:-i & \(b i\) & sin-digi \\
you many-ADJ kill.PAST-2SG & me & you-ABL
\end{tabular}
belem egdi-me wa-zaya-i.
more many-ACC kill-FUT-1SG 'You killed very many (birds), and I will kill even more than you.'
a. Belem manga tigde-li-e-ni. more strong rain-INC-PAST-3SG 'It started raining even more strongly.'
\(\begin{array}{lll}\text { b. } & \text { Nua-ni belem igdi-zi } & \text { sono-li-ge. } \\ \text { he-3SG more loud-INST } & \text { cry-INC-PERF } \\ \text { 'He cried even more loudly.' }\end{array}\)
(709) Bi zugdi: belem da:mpi ede:-ni.
me house.1SG very old become.PAST-3SG
'My house became very (completely) cold.'
\(\begin{array}{lll}\text { Jegdige } & \text { badi } & \text { manga } \\ \text { hero } & \text { even } & \begin{array}{l}\text { tagda:-ni. } \\ \text { strong }\end{array} \\ \text { get.angry.PAST-3SG }\end{array}\)
'The hero got even more angry.' (K 149)
Degree adverbs \(c\) 'o 'the most' and belem 'completely' are compatible with some nouns that have parametric component in their semantics (see 13.8). The degree adverb lä 'very' in its different phonological forms modifies adjectives (711) and quantifiers (712). It also functions as a quantifier itself within a noun phrase (11.2.1) and as a verbal modifier (10.1.4.2).
a. Lä negze zugdi do-lo-ni very light house inside-LOC-3SG 'It is very light in the house.'
\(\begin{array}{ll}\text { b. } & \begin{array}{l}\text { asi kängas 'a } \\ \text { very narrow } \\ \text { 'very narrow' }\end{array}\end{array}\)
c. Nekiasi aja.
spring very good
'It is very nice in spring.'
(712)
\begin{tabular}{llll} 
a. & \begin{tabular}{ll} 
Läsi & egdi-we
\end{tabular}\(\quad\) zeu-we & olokto:-ti. \\
very much-ACC & food-ACC & cook.PAST-3PL \\
& 'They) cooked very much food.'
\end{tabular}
b. Läsi egdi tukca eme-kte:-ti. very many hare come-DIS.PAST-3PL 'There came very many hares.'

The adverb ñanga may modify other adverbs but not an adjective. Under the scope of negation it may have the meaning 'at all, not at the least', cf. (713c). On its quantificational function see 11.2.1.
a. \begin{tabular}{ll} 
Min-du mäna-wa nanga \\
me-DAT flour-ACC little & xul'a-ka \\
cengele-je. & \\
weight-MP.2SG & \\
& 'Weigh a little more flour for me,
\end{tabular}
b. Ñanga bazie eme bi-si! little early come be-PAST 'If only I had come a little earlier!'
\begin{tabular}{lllll} 
c. & \(E i\) & zikte & \(\tilde{n} a \eta g a-d a\) & \(e\)-ini \\
this & blueberry & little-FOC & NEG-3SG & zei. \\
& sweet
\end{tabular} 'This blueberry is not at all sweet.'

Zuke 'hardly' commonly serves as a verbal modifier (10.1.4.2), but can also be used with certain predicative adjectives, cf. zuke inigi 'hardly alive'. Ketu 'very' is compatible with adjectives (714), when it seems to be synonymous with \(l a ̈\), with adjectival adverbs (715), and quantifiers (716).
\begin{tabular}{lllll} 
a. & ketu inini & 'very cold' & & \\
b. & Käna & ule:-ni & ketu & xei. \\
& deer & meat-3SG & very & tasty
\end{tabular}
\begin{tabular}{lll} 
Bi ketu & \(g e:-(z i)\) & \(\eta u a-m i\). \\
me very & bad-(INST) & sleep-1SG
\end{tabular}
'I sleep very badly.'
\begin{tabular}{lllll} 
Si ono & wa:-i & ketu & läsi & čind'a-wa? \\
you how & kill.PAST-2SG & very & many & bird-ACC
\end{tabular}
'How did you (manage to) kill so many birds?'
The adverb seuni: 'very' goes back to the homophonous adjective meaning 'terrible, scary'. It functions as a degree adverb within the adjective or adverbial phrase (717) or as a quantifier 'very much, very many' (718).
a. seuni: ge: 'terribly bad' <terrible bad>
b. seuni: tuge-zi 'terribly quickly' (SKX 190) <terrible quick-INST>
(718)
\(\begin{array}{lll}\text { Bi emugde-di: } & \text { seuni: } & \text { sugzä } \\ \text { me stomach-DAT.1SG terrible } & \text { fish } \\ \text { bie. } & \\ \text { be.PRES.HAB } & \end{array}\)
'There are very many fish in my stomach.' (SKX 260)

\subsection*{10.1.4.2. Verbal modifiers}

Degree adverbs used as verbal modifiers are listed under (719).
\begin{tabular}{llll} 
näga & 'a little, slightly' & zuke & 'hardly' \\
näga ñanga(i) & 'a little bit' & ketige & 'nearly, almost' \\
läs(i), lä, as(i) & 'very' & belem & '(even) more' \\
elusim(e) & 'entirely, completely' & kufula & 'entirely' \\
kaydui & 'till half' & mende & 'as a whole' \\
durug'afa & 'partly, till half, in two' & \\
eledexi & 'very much (of eating)' \(\leftarrow\) ele dexi <enough till>
\end{tabular}

Combined with a verb belem expresses a high intensity with the presupposition that the action has already taken place (720). Najga and läsi are antonymous: the former denotes a little intensity (721) and the latter a high intensity (722) of the action.
a. Xuda-si: ni: belem tagda:-ni. fur-V.PRP man more get.angry.PAST-3SG
'The merchant got even more angry.'
b. yene-mie yene-mie belem amba-na:-ni.
go-INF go-INF more evil.spirit-V.PAST-3SG
'He was walking, walking and turning more and more into an evil spirit.' (SK 201)
\(\begin{array}{lll}\text { (721) } \mathrm{Bi} \text { uta-wa } & \text { kese-u-si-zene-i } & \tilde{n a \eta g a-d a . ~} \\ \text { me that-ACC } & \text { torture-CAUS-IM-FUT-1SG } & \begin{array}{l}\text { little-FOC }\end{array}\end{array}\)
'I will torture her a little.'
a. Ogbö läs(i) tukä-ini.
elk very run-3SG
'The elk runs quickly.
b. Bi men-e mamasa-i läs(i) aju-mi. me REF-0 wife-REF very love-1SG 'I love my wife very much.'
c. Läs(i) gakti:-ni.
very freeze-3SG
'It freezes very much.'
Ketige 'almost, nearly' signifies that the (perfective) event has not reached its natural limit (723). Examples of other degree adverbs are given under (724).
\(\begin{array}{llll}\text { a. } & \text { Ketige } & \text { wa:-ti } & \text { namakta, }\end{array} \quad\) namakta-zi susa-gi-e-ni. escape-REP-PAST-3SG
'The mosquitoes nearly ate (him), he barely escaped.'
b. Mokt'oi-le ketige ine:-ni.
forest-LOC almost enter.PAST-3SG
'He almost entered the forest.'
a. Kaydui ikte-me-ze.
till.half tooth-V-SUBJ
'You'll bite off half (of it).'
b. In'ei-de kaydui esi-gi-e-ni,
dog-FOC till.half become-REP-PAST-3SG
dili-ni belie.
head-3SG fairy
'Half (of her) became a dog, (but) her head is a girl's.' (K 110)
c. Zugdi-we-ni durug'afa mudi-li-e-ni.
house-ACC-3SG half flood-INC-PAST-3SG
'His house was flooded till half.'
d. omo siguli mende 'one whole squash'
<one squash whole>
e. Uti wayba-ni-ni zawa-mi
that tortoise-AL-3SG take-INF
ninme:-ni seutige-we mende-de,
swallow.PAST-3SG pine.cone-ACC whole-FOC
ninme:-ni mende-de.
swallow.PAST-3SG whole-FOC
'Tortoise picked it up and swallowed the whole pine cone, it swallowed it whole.'
f. Drug'afa xua-je.
half cut-IMP.2SG
'Cut in two.'
g. Drug'afa bu:-je \(\min -d u\).
half give-IMP.2SG
me-DAT
'Give me half (of it).'

\subsection*{10.1.5. Idiomatic adverbial expressions}

Spatial and temporal adverbs form fixed combinations in which the order of the adverbs cannot be violated. The following parallel constructions have roughly the same meaning. They denote the passage of time in traditional folklore, and can be rendered as 'some time passed; far and near; by and by; sooner or later'.
go: da:
we:-ke go:(-ko)
go:-lo da:-la
we:-de go:-do
go:-ko da:-ka
go:-mo da:-ma
```

<far close>
<top-FOC far-FOC>
<far-LOC close-LOC>
<top-FOC far-FOC>
<far-FOC close-FOC>
<far-ACC close-ACC>

```

The elements of idiomatic constructions may be combined with a verb in parallel use, as in (726c).
\begin{tabular}{llll} 
a. & Wo:-ko go:-ko & bi:, & bagdi:, \\
top-FOC far-FOC & be.PRP & live.PRR \\
& sita-na-mi-de & b'a-ti. & \\
child-PL-REF-FOC & get.PAST-3PL
\end{tabular} 'They lived for a time, and by and by they gave birth to children.'
b. We:-de
go:-do
bi-mi
ali-de \(\begin{array}{lll}\text { top-FOC } & \text { far-FOC } & \text { be-INF } \quad \text { when-IND } \\ \text { sin-e-we } & \text { b'a-gi: } & \text { xai diga-na-zana-fi. }\end{array}\) you-0-ACC find-REP.PRP still eat-DIR-FUT-1PL.IN 'Sooner or later we'll find you and eat you up anyway.'
c. Da:-la close-LOC nene:-ti-es go.PAST-3PL-DIS hill-LOC come-PAST-3PL 'They traveled far and near, until they came to a hill.'
yene:-ti-es \(\quad\) go:-lo
go.PAST-3PL-DIS far-LOC
we:-le \(\quad\) i: \(\eta\)-ki-ti.
hill-LOC come-PAST-3PL
and near, until they came to a hill.'

Cf. also a "frozen" adverbial expression go:-do ei(-mi) bie 'soon; near' <long-FOC NEG-INF be.PRES.HAB>.

Other idiomatic adverbial expressions used in everyday speech are as follows:
\[
(727)
\]
dogbo-ni ineni-ni timadula timadule
j'eu baita-ni j'eu zuge-ni

For example:
\begin{tabular}{llll}
\begin{tabular}{l} 
J'eu baita-ni \\
what reason-3SG
\end{tabular} & \begin{tabular}{l} 
j'eu \\
what
\end{tabular} & zuge-ni & business-3SG \\
'Why did he come?' & & & \\
come.-PAST-3SG
\end{tabular}

\subsection*{10.1.6. Reduplication of adverbs as a stylistic means}

A number of indefinite time and manner adverbs (other than the converted Infinitives, on which see 10.1.3.1.2) may be repeated twice. This reduplication cannot be viewed as a derivational process, since the regular manner and time adverbs normally occur in a non-repeated form. Accordingly, it is mot written with the hyphen here, as distinct from lexicalized reduplications. The reduplication in question is a stylistic means of expressivity. It is known cross-linguistically, but is especially frequent in Udihe. In the simplest case the meaning of the repeated adverb is simply intensified (729), or it may slightly change (730).
\begin{tabular}{llll} 
go: go: & 'very long' & go: & 'long' \\
bei bei & 'to no purpose' & bei & 'in vain' \\
xele xele & 'very quickly' & xele & 'quickly' \\
läta läta & 'very loudly' & läta & 'loudly' \\
tiezi tiezi & 'in pairs' & tie-zi & 'pair' \\
sila sila & 'hardly' & sila & 'hardly' \\
anana anana & 'long-long ago' & anana & 'long ago' \\
ñanga ñanga(i) 'very little' & nanga & 'a little' \\
mogolie mogolie 'around, & mogolie & 'around'
\end{tabular}
aja aja
ebede ebede
xaulie xaulie
ele-le (< ele-ele)
zuke zuke
\begin{tabular}{ll} 
'thoroughly, & aja \\
properly' & \\
'so and so' & ebede \\
'anyhow' & xaulie \\
'just' & ele \\
'with & zuke
\end{tabular}
'well'
'so'
'please'
'soon'
'hardly'
'a little'
'once'
'a little'
'a little'
'very
good'
dolo dolo 'in the very dolo 'inside'
middle'

Examples are presented below. Qualificative adverbs derived from adjectives with the Instrumental marker -zi sometimes undergo only partial repetition: the Instrumental marker is lacking on the first component, as shown in (731f).
a. Zuke zuke gäna-ini.
hardly hardly step-3SG
'He has difficulty walking.'
b. Tege go: go: teisi:-ni.
gown long long wear-3SG
'The gown can be worn for a long time.'
c. Mamasa emne emne tagd'a-si
old.woman once once get.angry.PERF-PC
bie.
be.PRES.HAB
'The old woman is angry sometimes.'
d. Ñanga ñangai ikte-me-nde:-ni.
little little tooth-V-SEM.PAST-3SG
'He bit off a little bit.'
e. Ñanga ñaŋga omo mo:-wo tinda:-ni. little little one tree-ACC cut.PAST-3SG
'He cut one tree a little bit.'
f. Mo: tene nemnec'e nemnec'e-zi ise-pte-ini.
tree CONT thin thin-INST see-DEC-3SG
'And the trees are seen very thin.'
10.1.7.General properties of the adverbial phrase
10.1.7.1. Position and co-occurrence of adverbials

In this section we address not only independent adverbs, but also noun phrases with an adverbial function (15.4) and postpositional phrases (10.2.3). In general, there is a certain freedom of adverbial positioning, as long as the main requirement of Udihe word order, the preverbal position of the focus element (24.1.1), is satisfied. Clausal adjuncts with a temporal or spatial meaning, as a rule, occur sentence-initially (732), although they may follow the subject (733). On the position of the adverbial subordinate clause see Chapter 21.
a. Mo:
due
g'e-fe
čind'a
ketu egdi
tree top surface-ACC bird very many do:-ti.
perch-3PL
'Many birds perched all over the top of the tree.'
b.
\begin{tabular}{llll} 
b. & Zua & jamakta & läsi \\
summer & mosquito & very & many
\end{tabular}
'There are a lot of mosquitoes in the summer.'
a. Ninka anana long.ago Udie-du
Chinese lihe-DAT
xuda-si-e-ni.
fur-V-PAST-3SG
'Earlier, the Chinese used to sell cloth to the Udihe.'
b. Udie maŋmu omo bua-du
Udihe Nanai one place-DAT
wakca:-ti.
hunt.PAST-3PL
'The Udihe and the Nanai used to hunt in the same place.'

There are no constraints on the co-occurrence of various types of adverbials, but seldom does more than one clausal adverbial occur in a sentence. Typically two spatial or temporal adverbs are present when one of them gives details about the meaning of the other.
\begin{tabular}{llll} 
a. Cana & g'e-fe & wei-xi gobod'o & xuli:-ni. \\
wall & surface-ACC & up-LAT fly & go-3SG
\end{tabular} 'A fly goes up the wall.'
b. Zueze
we:-li-ni
g'e-fe gobod'o
table
top-PROL-3SG
surface-ACC
fly xuli:-ni.
go-3SG
'A fly goes all over the table.'
c. Ta:mati tue-ni ima: wac'a bi-s'e.
last.year winter-3SG snow little be-PERF
There was not much snow last winter.'

There does not seem to be a neutral mutual order for temporal and spatial adverbials. The spatial adverbial may precede (735a) or follow (735b) temporal adverbial.
a. Minti
we.IN house-DAT-1PL.IN always very nice
'It is always very nice in our house.'
b. Bai zuke dogbo dulanki-le-ni zuk-tigi in.vain hardly night middle-LOC-3SG house-LAT eme-gi-e-ni.
come-REP-PAST-3SG
'In vain he returned home with difficulty in the middle of the night.'

Verbal modifiers typically stand before the finite predicate (736), which follows from their inherent association with a focus. Yet they may be separated from the verb by verbal arguments (737), and may even be postposed immediately after it when the verb itself bears the focus function (738).
a. Nua-ni
igdi-zi somo-li-ge.
he-3SG loud-INST
'He started crying loudly.'
cry-INC-PERF
b. Min-du zugdi-we pug'a wo:-ti. me-DAT house-ACC separately make.PAST-3PL
'They built a house for me separately.'
a. Bi endemi moxo-wo xajie-mi.
me by.accident bowl-ACC break-PAST-1SG
'I broke the bowl by accident.'
\(\begin{array}{llll}\text { b. } & \text { Kei } & \text { sin-tigi } & \text { tagda:-ni. } \\ \text { right } & \text { you-LAT } & \text { get.angry.PAST-3SG }\end{array}\)
'You deserve having him get angry with you.'
a. Kusige-we ziugi-e
aja-zi-de.
knife-ACC sharpen-IMP.2SG
'Sharpen the knife well.'
b. Ima-ŋku-we
tell-N-ACC
\(e\)-si-mi
NEG-PAST-1SG finish
'I told the tale until the middle, did not finish it.'
Two adverbs co-occur within one adverbial phrase when one of them modifies the other (10.1.7.2). Three adverbials within one phrase are allowed only in comparative constructions, when one of them corresponds to the standard of comparison and the other to the measure of comparison (see example (740b) below); otherwise, more than two adverbs within one phrase are not allowed.

\subsection*{10.1.7.2. Adverbial modifiers}

Degree adverbs that function as adverbial modifiers are listed in 10.1.4.1. Within the adverbial phrase the adverbial modifiers precede the head adverb whatever its position with respect to the main verb, cf.:

\section*{a. Etete-ini ketu siziga. work-3SG very diligent 'He works very diligently.'}
b. Bi läsi manga dew-o:-mi. me very strong get.tired-PAST-1SG 'I got very tired.'

The other acceptable types of secondary adverbial modification are focus particles with the meanings 'also', 'very' (on these see Chapter 12), some restrictive particles (12.1.1.11.4), and the noun phrase that corresponds to standard of comparison (10.1.7.3).

\subsection*{10.1.7.3. Comparative adverbial phrase}

Comparison within an adverbial phrase headed by a qualificative adverb is expressed by purely syntactic means, namely, with the Ablative case-marked noun phrase denoting the standard of comparison. As for adjectives (6.3.4), degrees of comparison are not encoded morphologically on the adverb itself. The standard of comparison most typically precedes the adverb (740) but may also be postponed to the postverbal position (741).
a. min-digi xegie-fe
me-ABL above-ACC
'higher than me'
b. Bi sin-digi j'eu ba:-la-ni
me you-ABL what place-LOC-3SG
ca-ixi xuli-se:-mi.
far-LAT go-EXP.PAST-1SG
'I have traveled much further than you.'
c. Nua-ni min-digi go:-lo xetigey-ki-ni.
he-3SG me-ABL far-LOC jump-PAST-3SG
'He jumped further than me.'
d. Bi ei in'ei-we xonto in'ei-digi aja
me this dog-ACC other dog-ABL good aju-mi.
love-1SG
'I love this dog more than the other.'
(741) Bi ei ketu aja-zi \(\quad\) yua-mi zulie-fi-digi. me this very good-INST sleep-1SG before-ADJ-ABL 'I sleep now better than before.'

The superlative degree is signified by means of the superlative degree adverb c'o 'the most':
a. c'o cai-xi 'farthest of all'
<most far-LAT>
b. Bi c'o ñoxo ili-mi. me most first get.up-1SG
'I am the first to get up.'
\(\begin{array}{llllll}\text { c. } & B i & \text { c'o } & \text { noxo } & \text { wa:-mi } & \text { käya-wa } \\ \text { me most } & \text { first } & \text { kill.PAST-1SG } & \text { deer-ACC } & \text { me }\end{array}\)
utelineni za: zakpu se: bi-s'e-i.
then ten eight year be-PERF-1SG
'I killed my very first deer when I was eighteen years old.'
d
d. C'o amä:-li omo sul'ai bie
most back-PROL one fox be.PRES.HAB
'The last one was a fox.' (SK 101)

\subsection*{10.1.7.4. Adverbs that take arguments}

Only a few adverbs take an argument. The argument normally precedes the adverb, but this is not necessary, cf. (743d).
a. Min-zi be-INST
go:-lo a-ta-u
NEG-SUBJ-2PL
'You won't escape far from me.' (SKX 110)
b. Uli kä:-digi-ni go:-lo jene-isi-ni mafa river side-ABL-3SG far-LOC go-PC-3SG bear Egule ilaktan-ki-ni.
Egule appear-PAST-3SG
'After he went far from the river bank, the bear Egule appeared.' (SK 245)
c. Nua-ni tu: yene-isi-ni mo:-tigi das'a he-3SG all go-PC-3SG tree-LAT close osi:-ni.
become-3SG
'He was walking, it was already close to the tree.' (SK 272)
d. Caixi
\(e-z i\)
xuli auna-digi.
far NEG-IMP.2SG go night.shelter-ABL 'Don't go far away from the night shelter.' (SK 252)

\subsection*{10.2. Postpositions}

Postpositions in Udihe are easily distinguished from case affixes as independent words: they do not follow vowel harmony, are longer and bear a separate phonological stress. Normally they have an internal morphological structure and can be stranded under coordination, as distinct from case affixes (10.2.3). Postpositions combine with a noun to make a larger constituent (a postpositional phrase), typically with an adverbial function. Formally they fall into two large classes: morphologically changeable (10.2.1) and morphologically unchangeable (10.2.2) postpositions. The formers have developed as a result of the grammaticalization of the case forms of (spatial) nominals, and preserve certain morphological categories of nouns (case, possessive). Typically the latter are without nominal counterparts. In the corresponding sections both types of postpositions are represented in fairly exhaustive lists. The general properties of a postpositional phrase are addressed in 10.2.3. On case marking of postpositions see 24.2.1.2.3.

\subsection*{10.2.1. Changeable postpositions}

\subsection*{10.2.1.1. Derivation}

Changeable postpositions go back to the possessive case forms of nouns. Typically they are derived from the same spatial stems that are employed in the adverbial derivation (10.1.1). Although for most postpositions the corresponding noun is not attested in the modern language, in certain cases the derivational relationship is still preserved. So some postpositions and base nouns coexist, but demonstrate different categorial properties. In particular, spatial nouns may take cases not typical of postpositions (the Accusative in \(-w A / m A\), the Nominative, and the Destinative) and may be modified like other nouns, which is absolutely impossible in the case of postpositions. As distinct from nominal stems, the changeable postpositions never occur without possessive inflections and case markers. Finally, nouns and the corresponding postpositions may differ slightly in meaning, the meaning of the postposition being more abstract, cf. examples (a) and (b) below.
\begin{tabular}{lll} 
a. & \(B i\) moxo- \(i\) & kä:-wa-ni \\
& me cup & edge-ACC-3SG
\end{tabular} 'They broke the edge of my cup.'
b. Eme-i bi kä:-la-i.
come-IMP.2SG me side-LOC-1SG 'Come up to me.'
\begin{tabular}{llll} 
a. & No:ndu & \(\tilde{n} u g a-s i-i e\) & \(b i\) \\
first & kiss-IM-IMP.2SG & me & arrow-isG \\
&
\end{tabular}
due-we-ni.
point-ACC-3SG
'First kiss the point of my arrow.'
b. Mo:
due-digi-ni eugi-e-mi.
tree top-ABL-3SG come.down-PAST-1SG
'I came down from the tree.'

Among postpositional stems quite a few belong to the \(n\)-final class II (746a), while others have a vowel-final stem (746b).
a. xo:n-
no:n-
agdan-
b. aka-
ca:-
e:-
'top'
'front'
'between'
'back', cf. the noun aka 'back (body part)'
'behind'
'near', cf. the noun \(e\) : 'side'

Some postpositions are derived from spatial nouns with the suffix \(-(u) z A\) (5.1.2.4).
```

solie-ze 'upstream'
ezie-ze 'downstream'
ta-uze- 'behind', cf. ta- 'that'
a-uze- 'this side', cf. a- 'this'

```

Other postpositions have derivational suffixes \(-\eta k i /-\eta k A\) (748a) and -tA (748b) with an unclear meaning. The morphologically unmarked counterpart may be absent.
a. ta-nki-le-ni
dula-nki-le-ni
ga-ŋki-ni
di:-ŋki-ni
\(x e:-\eta k i-n i\)
dali-ŋka-ndi-ni
b. zulie-te-li-ni
\(a m a ̈:-t a\)
'in the center', cf. Nanai tokon-doa-ni
'in the middle', cf. Nanai dolin-doa-
'during'
'as large as'
'nearly'
'thanks to', cf. dali-ndi-ni 'thanks to' 'before' zulie-te 'before'
'behind' amä:-la-ni 'before'

\subsection*{10.2.1.2. Inflection}

Spatial postpositions form case and possessive paradigms. Other changeable postpositions inflect for the possessive, but do not have extensive case paradigms and are usually present in one "frozen" case form.

\subsection*{10.2.1.2.1. Case inflection}

Changeable postpositions with a spatial meaning take the Dative, Locative, Lative, Prolative and Ablative cases. They are formed with regular nominal case suffixes of class I or class II, depending on the stem type (4.1.1), although, like for nouns, a certain inconsistency is observed, cf. xo:-lo-ni and xo:n-dule-ni 'on' <top-LOC-3SG>. In the Dative the adverbial suffix -ni may be present instead of the regular -du. The case forms have basically the same meaning as for nouns (4.2.2).

In the table below we present illustrative paradigms for certain spatial postpositions in the \(3^{\text {rd }}\) person Singular form. The declension of other postpositions is completely analogous. Lacunas are marked with a hyphen.

Table 12. Inflection of postpositions


\subsection*{10.2.1.2.2. Possessive inflection}

The changeable postpositions must be inflected with possessive affixes that refer to the argument of the postposition (see 10.2.3). The possessive markers are the same as those employed in the nominal declension (Chapter 4) and may undergo the same phonological contraction with the preceding vowel. Below is the personal paradigm of the postposition kä:- 'near' in the Locative.
\begin{tabular}{llll} 
(749) & 1SG & \(k \ddot{a}:-l a-i\) & 1PL.EX
\end{tabular} \begin{tabular}{lll} 
& \(k \ddot{a}:-l a-u\) \\
& & 1PL.IN
\end{tabular}

\subsection*{10.2.1.3. Semantic groups}

\subsection*{10.2.1.3.1. Spatial postpositions}

Spatial postpositions are cited here in the Locative \(3^{\text {rd }}\) person Singular form, on their inflection see 10.2.1.2.
amä:-za-la-ni
ca:-la-ni
aka-la-ni
do-lo-ni
agda-la-ni
due-le-ni
au-ze-le-ni
dulayki-le-ni
e:-le-ni
ezize-le-ni
ge:-le-ni
kä:-la-ni
nondu-le-ni
ogdo-lo-ni
solie-ze-le-ni
tau-ze-le-ni
tanki-le-ni
xegie-le-ni
xo:ndi-le-ni
zulie-le-ni
zoagda-nki-le-ni
```

'after'
'behind'
'behind'
'inside; among'
'between, in the middle'
'on the top of'
'close to, here, on this side'
'in the middle'
'on the side, close to'
'downstream'
'on'
'near, next to'
'before, in front of
'at the side'
'upstream'
'behind'
'in the middle, in the center'
'under, below'
'on'
'before'
'between'
we:-le-ni, wei-le-ni, ui-le-ni 'on the surface'
bagä:-za-la-ni
'across (the river), on the opposite side'

The postposition cu-li-ni 'along' has only the Prolative form. Examples:
(751) a. Xeigi:
trousers.1SG right-N side-LOC-3SG tear-DEC.PAST-3SG
'My trousers are torn on the right side.'
b.
me fallen.tree top-LOC-3SG sit-1SG
'I am sitting on a fallen tree.'
c. Ba: xegi-le-ni, na: ui-le-ni ono
place under-LOC-3SG earth top-LOC-3SG how
bi: demi ni: bie.
be.PRP IND man be.PRP.HAB
'Under the sky on the earth there are different people.'
d. Ic'a-i bäsa-wa xo:n-dili-ni
small-FOC stream top-PROL-3SG
xetigene-kce:-mi.
jump-INT.PAST-1SG
'I wanted to jump over the small stream.'
The postposition do-lo-ni 'inside' has a metaphorical partitive sense 'among, of', cf.:
a. Bi aziga-ma sita-na-i do-lo-ni
me girl-ADJ child-PL-1SG inside-LAT-3SG
emus'e Lena alagdig'a.
alone Lena beautiful
'Among my daughters only Lena is beautiful.'
b. Men-e tege do-lo-ni zube tege-we

REF-0 gown inside-LOC-3SG two gown-ACC
xebu-zene-i.
take-FUT-1SG
'I will take two of my gowns.'

### 10.2.1.3.2. Temporal postpositions

Temporal postpositions are based on a certain case form (the Dative, Locative or - rarely - the Prolative or Instrumental) of spatial postpositions (753a). Other temporal postpositions do not have a corresponding spatial meaning
(753b). For natural semantic reasons temporal postpositions mostly occur in the $3^{\text {rd }}$ person Singular, although other personal forms are not excluded either.
(753)
a. $\quad a m a ̈:-l a-n i$
zülie-ni, zülie-te
ño:n-dule-ni
b. geun-di(le)-ni,
geun-du-ni
Examples:

| a. | nexus'e | geun-di-ni |
| :--- | :--- | :--- |
| younger.brother | empty-DAT-3SG |  |
| 'while the brother is not at home' |  |  |

b

| bue-ni geun-dile-ni | eme:-mi. |
| :--- | :--- | :--- |
| he-3SG empty-LOC-3SG | come.PAST-1SG |
| 'I came while he was out.' |  |
| c.Bue-ni geun-di-ni <br> he-3SG empty-DAT-3SG | etete-mi. |
| 'I work without him.' |  |

d. Si geun-di:
zuge b'a-mu.
you empty-DAT.2SG trouble get.PAST-1PL.EX
'We had trouble in your absence.'
e. gäwa zulie-le-ni 'before the dawn'
<dawn before-LOC-3SG>
f. sanxua amä:-la-ni
<lunch after-LOC-3SG>
g. bolo-ni teun-dile-ni 'every autumn'
ana teun-di-ni 'every year'
dogbo teun-dile-ni 'every night'
ei ekin-di-ni
'after lunch, in the afternoon'
'at this time'
Some temporal postpositions take a subordinate participial clause as an argument, cf. (755a) and (755b). These are addressed at length in 21.3.1.
a. Dogbo ekin-di-ni wakca-na-ini.
night time-DAT-3SG hunt-DIR-3SG
'He goes hunting at night.'

| b. Xojo sol'o-i | ekin-di-ni | uma |
| :--- | :--- | :--- | :--- |
| salmon go.upstream-PRP | time-DAT-3SG | hook |
| egdi-we uma-nisi-je. |  |  |
| many-ACC hook-V-IMP.2SG |  |  |
| 'Set up many hooks when the salmon go upstream.' (K 146) |  |  |

### 10.2.1.3.3. Other postpositions

Other semantic groups are causal postpositions (756a), comparative postpositions (756b), and postpositions denoting substitution (756c).

| a. | die-(le)-ni | 'because of (LAT)' |
| :---: | :---: | :---: |
|  | dali(-nke)n-di-ni | 'thanks to (DAT)' |
| b. | di:nki-ni | 'as large as, of the size of' |
|  | $x e: \eta k i-n i$ | 'nearly' |
|  | $d u:(-z i)-n i$ | 'in the shape, in the form (INST)', |
| c. | $o-l i-n i$ | 'instead of (PROL)' |
|  | olin-di-ni | 'instead of (DAT)' |
|  | olin-dile-ni | 'instead of(LOC)' |
|  | emi-ni | 'instead of' |

Examples:
a. säysaya olin-dile-ni 'instead of the teacher'
<teacher instead-LOC-3SG>
b. mamasa die:-ni 'because of the wife'
<wife because-3SG>
c. Omo
one man kill.PP-3SG because-LOC-3SG this
a:nta läsi sita-wa sun-du b'a-zaya-ni.
woman many child-ACC you-DAT get-FUT-3SG
'Instead (literally: because) of the man who was killed, this woman
will give birth to many children for you.'
d. Ag'a min-zi kusige die-le-ni
brother me-INST knife because-LOC-3SG
ñaugda-masi-e-mu.
quarrel-REC-PAST-1PL.EX
'We had an argument with my brother because of the knife.'
e. Bi olin-dile-i xoyto ni: etete-zene-ni.
me instead-LOC-1SG other man work-FUT-3SG
'Another man will work instead of me.'
f. Si sita-i si di:nki ede:-ni.
you child-2SG you like.2SG become.PAST-3SG
'Your son became your size.'
g. Zangä jene-i-ni olin-di-ni ni: chief go-PRP-3SG instead-DAT-3SG who bi-ze?
be-SUBJ
'Who will be instead of the chief who left?'

The causal postpositions are compatible with the participial subordinate clause (21.1.3).

### 10.2.2. Unchangeable postpositions

The main formal feature of this class of postpositions is the absence of possessive suffixes. A few unchangeable postpositions assign a non-Nominative case to their argument nominal (see 10.2.3).

### 10.2.2.1. Derivation

A number of spatial and temporal postpositions have appeared as a result of the conversion of spatial and temporal adverbs. Quite a few spatial postpositions (see the list in (761a)) employ the adverbial Accusative marked with (')-fA (10.1.1). The Accusative postpositions express a general location or movement through, along or all over the space.
(758) a. ba: x'o-fo 'through the taiga' <place top-ACC>
b. 'ana ogd'o-fo 'near (along) the boat (if it is pulled)' <boat side-ACC>
c. xokto g'e-fe 'along the road' <road surface-ACC>
d. Zugdi g'e-fe sine egdi. house surface-ACC rat many 'There are many rats all over the house.'
e. Zueze
w'e-fe egdi moxo nede-se. table top-ACC many bowl put-PP.PAS. 'There are many bowls put all over the table.'

Temporal postpositions in (759a) have developed from "frozen" forms of the copula verb 'be'. Temporal and spatial postpositions in (759b) are lexicalized verbal forms. Postpositions in (759c) go back to various case forms augmented with the 3SG inflection -ni.
a. bi-si-ni
bi-s'e-si
bi:-ni
bi-mi
b. bagdi:-ni
malakta-ini
'ago'
'in'
'when'
'ago'
'in the beginning of' 'in the end of'
<be-PAST-3SG>
<be-PERF-PC>
<be-3SG>
<be-INF>
<live-3SG>
<finish-3SG>

```
c. agda-li-ni
    ekin-du-ni 'when, during (DAT)'
    'while' (PROL)
    ekin-du-ni 'when, during (DAT)'
    cf. eke 'time'
    teun-di-ni 'every (about time intervals) (DAT)'
    cf. teu 'all'
    e:lin-di-ni
    agda-du-ni
    'when, during (DAT)'
    cf.e:li 'time'
    'while (DAT)'
cf. agda-la-ni 'between'
```

Ssome other postpositions with a different derivational history are cited below.

10.2.2.2. Semantic groups
10.2.2.2.1. Spatial postpositions

a. $a m^{\prime}$ 'ä-fa<br>$a k ' a-f a$<br>agd'a-fa<br>auz'e-fe<br>bagä:z'a-fa<br>c'a-fa<br>d'o-fo<br>dulayki-fe<br>eziz'e-fe<br>k'ä-fa<br>ogd'o-fo<br>soliez'e-fe<br>t'a-fa<br>tauz'e-fe<br>xegie-fe

$x$ 'o-fo
w'e-fe zulie-fe
'e-fe
g'e-fe
b. egelie
bagdi:-ni
cul(i)
keilie
pui
malakta-ini
'(all) over, on the top'
'on the top, (all) over'
'before'
'on the side of'
'along, on the top, (all) over'
'around'
'in the beginning'
'right, straight'
'over'
'through'
'in the end of'

Examples:
(762)
a. La:mo
mill
egelie
around
'Spread (it) around the mill.'
b. Sagdi namu egelie egelie tukä:-ni.
large sea around around run.PAST-3SG
'He ran around the large sea.'
c. Joxo culi xuin-ki-ni
kettle right dive-PAST-3SG crow
'The crow dived right into the kettle.'
d. Xasa pui n'ädiga-mu:i-ini.
box through younger.son-V-3SG
'It smells of the younger son through the box.'
e. Mogzo 'e-fe solo-zo-fi. short.bank side-ACC move.upstream-SUBJ-1PL.IN
'We will float upstream near the short riverbank.'
f. uli bagdi:-ni 'in the beginning of the river'
xokto bagdi:-ni 'in the beginning of the road'
10.2.2.2.2. Temporal postpositions
(763)
ño:-zi 'before' (NST)
bi:-ni 'when'
dexi
bi-s'e-si
cai-xi
bagdi:-ni
bi-si-ni
malakta-ini
agda-du-ni
'until'
'in'
'further, next' (LAT)
'in the beginning'
'ago'
'in the end of'
'while' (DAT)

```
agda-li-ni 'while' (PROL)
ekin-du-ni 'when, during' (DAT)
edeisini 'when, during'
e:lin-di-ni 'when, during' (DAT)
t eun-di-ni 'every (about time intervals)'
bi-mi 'ago'
```

Examples:
a. A-wa cai-xi aja-zi bagdi-zeضe-fi. that-ACC far-LAT good-INST live-FUT-1PL.IN 'Let us go on living well from this day.'
b. Tuna-ma neyi bi-s'e-si xoton-tigi
five-ACC day be-PERF-PC city-LAT
jene-zene-i.
go-FUT-1SG
'I will go to the city in five days.'
$\begin{array}{llll}\text { c. } & \begin{array}{ll}\text { Zu: } & \text { neni-ni } \\ \text { two } & \text { day-3SG }\end{array} & \begin{array}{l}\text { bi-mi oño-wo } \\ \text { be-INF write-ACC }\end{array} & \begin{array}{l}\text { oño-so. } \\ \text { write-PP.PAS }\end{array}\end{array}$
'The letter was written two days ago.'
d. Puile
$b i:-n i$
te:-gi-zene-ni.
dawn be-3SG get.up-REP-FUT-3SG
'He will get up before sunrise.'
e. ana bagdi:-ni 'in the beginning of (each) year' apa-ni bagdi:-ni 'in the beginning of the year'
ana-ni malakta-ini 'in the end of the year'
The postposition dexi expresses a temporal limit; its argument may be represented by a nominal, a temporal adverb, or a participial clause (21.3.1.3), cf.:
a. siki-gi: dexi 'until the evening' <evening-REP.PRP until>
b. ei dexi 'until now' <now until>
c. sanxua dexi 'until noon' <lunch until>
d. bude dexi 'until death' <death until>

### 10.2.2.2.3. Comparative postpositions

(766)
bede
bejeku
bubu
d'ofo, do:
'like'
'(a)like, similar'
'similar to'
'exactly like', cf. d'o-fo 'inside'

| beptigi | 'similar' |
| :--- | :--- |
| xulemi | 'more than' |

Comparative postpositional phrases bear the predicative role in copular constructions (17.2.2.2.4), express the standard of comparative in equative constructions (6.3.3), function as adjuncts (767), or as secondary predicates (768).

b. Xuda-si: ni: tuxi-le mua-ini mafa fur-V.PRP man sledge-LOC sleep-3SG bear bede agdu do-lo-ni. like hole inside-LOC-3SG
'The merchant is sleeping on the sledge like a bear in a bear hole.'

| c.Songo sita-ni <br> bear child-3SG | teu <br> all | diga <br> eat | kasanziga <br> puppy | bede. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| like |  |  |  |  |

'The bear cubs are all eating like puppies.'
a. Zegde to: bede eme-ili.
burn fire like come-3SG
'He came (as if he were) like a burning fire.'
$\begin{array}{llll}\text { b. } & \begin{array}{lll}\text { Ni:-we } & \text { ba: } & \text { bui-we-ni }\end{array} \\ \text { man-ACC } & \text { place } & \text { animal-ACC-3SG } & \text { bede } \\ \text { meisi:-ti. } & & & \\ \text { think-3PL }\end{array}$
'He has grown up resembling his father.'


The postposition d'o-fo '(exactly) like' may sometimes take possessive affixes, cf. (769a) and (769b).
a. krokodila ayma-ni d'ofo-do
crocodile mouth-3SG like-FOC
'like the mouth of a crocodile'

| b. | Nua-ni | ami-mi | d'ofo-ni |
| :--- | :--- | :--- | :--- |
| he-3SG father-REF | like-3SG | bagdi-e-ni. |  |
| 'He was borm looking exactly like his father.' |  |  |  |

### 10.2.2.2.4. Comitative postpositions

Generally speaking, the meaning of the comitative postpositions is 'with'.
mende '(together) with' (with inanimate nouns)
mule 'with' (with animate nouns)
geje 'with' (with animate nouns)
zupe 'together with, both' (with animate nouns)
The postpositional phrase headed by the postposition mende 'with' most often denotes the entire object together with its parts:

a. | Nakta $\quad \tilde{n a-w a-n i ~} \quad$ imo: |
| :--- |
| boar mende |
| keli-nde-iti. |
| cut-SEM-ASG |
| 'They cut out the boar skin together with the fat.' | with

b. pauza dili je:-ni mende-de
roe head horn-3SG with-FOC
'the roe's head together with horns'
c. Tuduze ña:-ni mende olokto:-mi. potato skin-3SG with cook.PAST-1SG
'I cooked potatoes together with the skin.'
The comitative postpositions geje, mule and zure differ in syntactic functions and semantics. The postposition mule 'with', as distinct from geje and zuye, presupposes a close "inalienable" association between two participants, which must constitute a "natural" pair: a husband and wife, a mother and son, cf.: ogbö eni mule 'elk with female'. So (772a) below can only be understood as meaning that I climbed the tree with my own (and not somebody else's) younger brother. The postposition zupe 'together with, both' goes back to the Collective numeral 'both' (11.1.3) and always takes a Singular object. As
distinct from mule, it does not presuppose inalienable possession between two animate entities. The postpositional phrase with the postpositions mule or zupe has four syntactic functions. First, it can correspond to a postpositional modifier (such cases are addressed in 13.5.1). Second, it may be used as a predicate in copular constructions (17.2.2.2.4). Third, it encodes the counteragent participant in the context of formally or semantically reciprocal verbs (16.1.5.2, 16.2.3.1). Finally, it may function as the comitative adjunct, cf.:
(772)


The comitative postposition geje '(together) with' assigns the Instrumental case to its argument, which may be in Plural (see 10.2.3). It is not to be confused with the homonymous adverb geje 'together' illustrated below.
a. Minti
geje
zikte-we teini-ze-fi.
we together blueberry-ACC collect-SUBJ-1PL.IN
'We will collect blueberries together.'
b. Minti
etete-fi.
we together
work-1PL.IN
'We work together.'
c. Bula
mo:-ni
xulu
mo:-ni
poplar
tree-3SG
ash.tree
tree-3SG
geje bagdi--ti.
together live-3PL
'The poplar and the ash trees grow together.'

The postpositional phrase with geje functions as a modifier (13.5.1) or in copular constructions (17.2.2.2.4).

### 10.2.3. General properties of the postpositional phrase

Postpositional phrases express different adverbial meanings, mostly as clausal adjuncts but sometimes also as locational arguments (see Chapter 14). Some postpositions function as predicates in copular constructions (17.2.2.2.4), as a secondary predicate (10.2.2.2.3), or as a nominal modifier (13.5).

Postpositions do not take more than one argument. The argument immediately precedes a postposition and cannot be separated from it under any conditions. However, in coordinated structures postposition can be stranded, cf.:

| Mo: | bi | zugdi: | škola-u | zule:-ni |
| :--- | :--- | :--- | :--- | :--- |
| tree | me | house.1SG | school-1PL.EX | before-3SG |

bagdi-e-ni.
live-PAST-3SG
'Trees grew before my house and before our school.'
In the "modifier raising" constructions (24.2.1.1) the postposition immediately follows the modifier of the noun phrase that corresponds to its argument, cf. (775a) and (775b) with the same translation:
a. Bi guzakta-xi ni: kä:-du-ni
me beard-ADJ man near-DAT-3SG tei-mi.
sit-1SG
b. Bi ni: guzakta-xi kä:-du-ni me man beard-ADJ near-DAT-3SG sit-1SG 'I am sitting near a bearded man.'

The majority of postpositions take the Nominative argument, either a noun or a pro-noun. The pronominal argument may be omitted. Temporal postpositions are compatible with temporal adverbs (10.1.7.1). The argument is obligatorily cross-referenced by the possessive marker on the so-called changeable postposition (776). Unchangeable postpositions do not mark their argument morphologically, the syntactic relationship between them and their argument is a mere juxtaposition (777).
a. minti amä:ta-fi
<we behind-1PL.IN>
'behind (after) us'
b. bi abuga-i solieze-du-ni <me father-1SG upstream-DAT-3SG> 'higher up the stream than my father'
c. aziga-ziga kä:-la-ti <girl-PL side-LOC-3PL> 'near the girls'
$\begin{array}{llll}\text { d. } & \text { Sagdi } & \text { namu } & \text { kä:-li-ni }\end{array} \quad$ tukä:-ni.. run.PAST-3SG 'He ran along the large sea shore.'
(777)
a. zua dexi
b. mo: bede
c. bi bede
'until summer'
'like a tree'
'like me'
<summer until> <tree like> <me like>

Number agreement between the postposition and its argument basically follows the same rules as agreement between the elements of the possessive noun phrase (13.1).

There is a small group of postpositions that govern cases other than the Nominative. The choice of case is not determined by the verb.

> geje
> amä:ta
> asap-tigi
> beptigi
> taf(u)
> meŋde

| 'with' | INST |
| :--- | :--- |
| 'behind, after' | ACC |
| 'towards' | ACC |
| 'similar' | ACC |
| 'through' | ACC |
| 'with' | INST |

Examples:
a. Nina
Nina

| min-zi | geje <br> me-INST |
| :--- | :--- |
| together |  |

Bali-tigi
Khabarovsk-LAT
nene-ini.
go-3SG
'Nina is going with me to Khabarovsk.'
b. Bi abuga-zi:
geje
eme:-ni.
me father-INST.ISG together
come.PAST-3SG
'He came together with my father.'
$\begin{array}{llll}\text { c. } & \text { Ei aziga } & \text { sin-zi } \\ \text { this girl } & \text { you-IN }\end{array}$
geje
together
te:-ni
sit.PAST-3S
kuluba-du?
club-DAT
'Is this the girl who was sitting with you in the club?'
$\begin{array}{lllll}\text { d. } & \text { namakta } & \text { tege-we } & \text { taf } & \text { ikteme-li:-ni. } \\ \text { mosquito } & \text { gown-ACC } & \text { through } & \text { bite-INC-3SG }\end{array}$
'Mosquitoes bite through the gown.'
e. min-e-we asaptigi 'towards me' <me-0-ACC towards > Nina-wa asaptigi 'towards Nina' <Nina-ACC towards>

For the postposition mende 'with' the Instrumental marking of the object is optional, cf. the following example with (771) above.

| Ise-si:-ti | Sendule ami-ni | carawa-zi |  |
| :--- | :--- | :--- | :--- |
| see-IM-3PL | Sendule |  |  |
| meyde | agda | gune. |  |
| with moor | EV |  |  |
| 'They see that the father Sendule is mooring together with |  |  |  |
| his army.' (SKX 270) |  |  |  |

Postpositions can only be modified by focus particles (Chapter 12).

## Chapter 11 Numerals and quantifiers

Numerals and other quantifiers modify a nominal within a quantified noun phrase (13.3). On the headless quantified noun phrase see 22.2.3, on quantifier raising see 24.2.2.1.2, and on quantifier float see 24.2.1.2.2. On quantifiers in the predicative role see 17.2.2.1.2.

### 11.1. Numerals

Udihe uses decimal numeration. The formation of numerals is fairly regular, and can be described in terms of addition and multiplication. Russian numerals, especially those that denote large numbers, can easily be integrated into Udihe speech and are gradually replacing native numerals.

The following groups of numerals will be considered: Cardinal numerals (11.1.1), Ordinal numerals (11.1.2), Collective numerals (11.1.3), Multiplicative numerals (11.1.4), Distributive numerals (11.1.5), Approximate numerals (11.1.6), and Restrictive numerals (11.1.7).

### 11.1.1. Cardinal numerals

There is only one series of numeral stems used for counting different kinds of objects.

### 11.1.1.1. Derivation

11.1.1.1.1. Simple cardinal numerals


The Cardinals from 11 to 19 and from 30 to 90 are compound and based on a decimal system (see 11.1.1.2). Native non-derived numerals above 1000 are missing, Russian borrowings are used instead, for example, miliona 'million', miliarda 'thousand million'.

For numeral 2, the Nominative form zu: 'two' (adduced in Schneider 1936: 10 ) is more typical of the Northern dialect, whereas zube is characteristic of the Southern dialect, although $z u$ : is also an option. Zu -be is the 'frozen' Accusative form of $z u$ :, which suggests that the stem $z u$ : historically belonged to the $l$-final stems (see 4.1.1.3). Cf. the following examples from the Southern dialect:
(782) a. Min-du zube ugda bie.
me-DAT two boat be.PRES.HAB 'I have two boats.'
$\begin{array}{lllll}\text { b. Ei zube b'ata omo aya-ni } & \text { bagdi-e-ti. } \\ \text { this two boy one year-3SG } & \text { live-PAST-3PL }\end{array}$ 'These two boys were born the same year.'
$\begin{array}{lllll}\text { c. } & \text { Bi ise:-i } & \text { zu: } & \text { in'ei-we } & \text { xokto-lo. } \\ \text { me see.PAST-2SG } & \text { two } & \begin{array}{l}\text { dog-ACC }\end{array} & \begin{array}{l}\text { road-LOC }\end{array} \\ & \text { 'I saw two dogs on the road.' }\end{array}$
The numeral omo 'one' may be used sporadically as an indefinite article (13.4) or with the meaning 'only'.

```
(783) Tada-ni omo xunepte osi-gi-e-ni.
arrow-3SG one ashes remain-REP-PAST-3SG
    'Only ashes remained from his arrow.' (SKX 96)
```


### 11.1.1.1.2. Compound numerals

Numerals from 11 to 19 are formed as compounds with 10, whereas the operation of addition is morphologically unmarked. Each element of the compounds preserves its original phonological stress.

$$
\begin{array}{ll}
\text { za:-omo } & 11(10+1) \\
\text { za:-zube } & 12(10+2)  \tag{784}\\
\text { za:-ila } & 13(10+3)
\end{array}
$$

Numerals that denote tens, with the exception of wei/weji ' 20 ', are based on multiplication by ten. This operation is also morphologically unmarked, but the order of stems is reversed: the stem $z a$ : ' 10 ' takes the final position. It does not bear a separate stress in this case and is phonologically reduced to $z a$, so the
derivation of tens can be classified as a suffixation of an element $-z a$ 'ten' rather than a compounding.


Hundreds and thousands are also based on multiplication.
omo tangu
ila tangu
$z u:(b e)$ minga
$100(1 \times 100)$
$300(1 \times 100)$
$2000(2 \times 1000)$

Other compound numerals are formed by the mere juxtaposition of words denoting tens, hundreds, and thousands, and the numerals from 'one' to 'nine', cf.:
(787)
wei tura

$$
25(20+5)
$$

ila-za omo
omo tangu tuja-za nada
$31(30+1)$
$157(100+5 \times 10+7)$

### 11.1.1.1.3. Fractions

The use of fractions is very limited. Native means of denoting fractions are missing with the exception of the words kakt'a 'half' (divided in length, also in the abstract meaning), kaךdugu 'half' (divided in width), drug'afa 'half' (often in the abstract meaning, also as the adverb 'in two'). They may occur in the postnominal position (in a "raised modifier" construction), cf. (788a) and (788b). However, more typically they function as prenominal quantifiers, cf. (788c), (788d), and (788e). The meaning 'one quarter' may be expressed as 'half of the half', as in (788f), or periphrastically as 'divide in two twice', as in $(788 \mathrm{~g})$.
(788) a. zube časa kakt'an-du-ni 'at half past one' <two hour half-DAT-3SG>
b. Omo ogbö na:-ni kakt'a-zi-ni omo one elk skin-3SG half-INST-3SG one gagda-wa wo:-ni. other-ACC make.PAST-3SG
'He made one (boot) from half an elk's skin.'
c. Ei banza-la drug'afa 'ai bie. this bottle-LOC half vodka be.PRES.HAB 'There is half of the vodka in this bottle.'
d. Drug'afa tue-ni tukti-e-ni. half pole-3SG climb-PAST-3SG
'He climbed till half of the pole.'
e. kakt'a da: 'half a fathom'
kakt'a bä: 'half a month'
f. Kagdugu drug'afa xali-e min-du. half half pour-IMP.2SG me-DAT
'Pour me quarter (of it).'
g. Kandugu kandu-li-ge-si bu-o:-ni. half half-V-PERF-PC.SS give-PAST-3SG
'He gave one quarter.'
The meaning '(divide) into several equal parts' may be rendered by the combination of the corresponding Collective numeral (11.1.3) with the denumeral adjective omo-ti 'same, similar', cf.:

$$
\begin{array}{lc}
\begin{array}{l}
\text { zupe (tie) omo-ti } \\
\text { <both pair one-ADJ> } \\
\text { ilan-tuya omo-ti } \\
\text { <three-COL one-ADJ> }
\end{array} & \text { 'into two equal parts' }  \tag{789}\\
\end{array}
$$

Otherwise, Russian fractional expressions are used: tret' 'one third', četvert' 'one quarter', etc.

### 11.1.1.2. Inflection

The bare Cardinal numeral forms are used in the attributive (13.3) and predicative (17.2.2.1.2) function. Besides, like most other modifiers, the Cardinals may be used independently in an argument position (22.3.2). In the latter case they take case inflections, cf. (790a) and (790b):
a. Zakpu-ma b'a-gi-e-ni. eight-ACC find-REP-PAST-3SG
'He has found eight (badgers).' (K 150)
b. Ono ja:-i $\quad \begin{aligned} & \text { zube } \\ & \text { how tiu-zi } \\ & \text { eme-gi.? }\end{aligned}$
come-REP. 2 SG
'What has happened that you are coming back with two sticks?' (K 169)

An exception is the postnominal numeral within the Accusative noun phrase, which demonstrates obligatory attributive agreement in case (13.3.4).
The numerals tangu ' 100 ' and minga ' 1000 ' have vowel-final stems. Numerals from 'one' to 'ten' with the exception of zu:(be) 'two' and wei/weji 'twenty' have $n$-final stems and follow the declension regularities of class II nouns (4.1.1). The numeral zu: 'two' (typical of the Northern dialect) behaves like an old noun with an $l$-stem, that is, it takes the Accusative suffix -be (cf. 4.1.1.2.1). In the Southern dialects the secondary Accusative in -me has developed, cf. the form zu-be-me with two Accusative markers, the old suffix -be typical for $l$-type stems, and the "new" -me typical for $n$-type stems. "Double" Accusative has been also attested in tuna-ma-wa <five-ACC-ACC>. Other oblique cases are derived from the vowel-final stem zu:.

Table 13. Declension of the Cardinal numerals

|  | 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NOM | omo | zu:, zu(be) | ila | di: | tuya |
| ACC | omo-mo | zube(-me) | ila-ma | di:-me | tuja-ma |
| DAT | omon-du | zu:-du | ilan-du | di:n-du | tuyan-du |
| LAT | omon-tigi | zu:-tigi | ilan-tigi | di:n-tigi | tuyan-tigi |
| LOC | omon-dile | zu:-dile | ilan-dile | di:n-dile | tuyan-dile |
| PROL | omon-dili | zu:-dili | ilan-dili | di:n-dili | tuyan-dili |
| $\mathrm{ABL}$ | omon-digi | zu:-digi | ilan-digi | di:n-digi | tuyan-digi |
| INST | omon-zi | zu:-zi |  |  | tugan-zi |
|  | 6 | 7 | 8 | 9 | 10 |
| NOM | ñußu | nada | zakpu | jei, jeji | za: |
| ACC | nupu-me | nada-ma | zakpu-ma | jeji-me | za:-ma |
| DAT | ñugun-du | nadan-du | zakpun-du | jejin-du | za:n-du |
| LAT | ñugun-tigi | nadan-tigi | zakpun-tigi | jejin-tigi | za:n-tigi |
| LOC | nuugun-dile | nadan-dile | zakpun-dile | jejin-dile | za:n-dila |
| PROL | nupun-dili | nadan-dili | zakpun-dili | jejin-dili | za:n-dili |
| ABL INST | ñuŋun-digi | nadan-digi | zakpun-digi | jejin-digi | za:n-digi |
| INST | ñupun-zi |  | zakpun-zi | jejin-zi | za:n-zi |
|  | 20 | 10 |  | 1000 |  |
| NOM | wei, weji |  |  | minga |  |
| ACC | weji-me |  | -we | minga-we |  |
| DAT | wejin-du |  | -du | minga-du |  |
| LAT | wejin-tigi |  | -tigi | minga-tigi |  |
| LOC | wejin-dile |  |  | minga-la |  |
| PROL | wejin-dili |  |  | minga-li |  |
| ABL | wejin-digi |  | -digi | minga-digi |  |
| INST | wejin-zi |  | -zi | minga-zi |  |

In the compound numerals only the last component is inflected. The numerals denoting tens have vowel-final stems, cf. (791a).
(791)
a. ila-za-wa '30 (ACC)'
di:-ze-le '40 (LOC)'
nada-za-du '70 (DAT)'
b. omo minga jeji tangu ila-za di:n-tigi '1934 (LAT)'
(Schneider 1936: 113)
nada-za zakpun-du
'78 (DAT)'
omo minga jeji tangu ñuŋu-ze di:n-du '1964 (DAT)' (Sunik 1968: 219)

In certain contexts Cardinal numerals may take possessive affixes which typically express definiteness, cf.:
a. Ila-ni sin-e-we igisi-mi mute-ze. three-3SG you-0-ACC feed-INF can-SUBJ 'Three of them will be able to bring you up.' (SK 350)
b. Gä:wa-na-i-du-ni
gulin-ki-ti ilah-ni, dawn-V-PRP-DAT-3SG leave-PAST-3PL three-3SG jegdige, Zagi Jagini, Guas'a Zagilani. hero Zagi Jagini Guasa Zagilani
'At the dawn three of them left: the hero, Zagi Jagini, and Guasa
Zagilani.' (SKX 214)

### 11.1.2. Ordinal numerals

### 11.1.2.1. Derivation

The numerals 'one' and 'two' have suppletive ordinal stems.
$\begin{array}{llll}\text { (793) omo } & \text { 'one', } & \text { ñoxo } & \text { 'first' (literally 'foremost') } \\ \text { zu:(be) } & \text { 'two' } & \text { gagda(-ni/-ti) } & \text { 'second' (literally 'other') }\end{array}$
On the pronominal determiner gagda see also 9.7.2; example (794) demonstrates its use as an Ordinal numeral.
(794) Bi tatusi-mi gagda klasa-du.
me learn-1SG second class-DAT
'I go to the second class.'
The Ordinals beginning with 'three' are formed with the affix -eti/-äti/-iti (Northern dialect) or -nti/-intiti/-iti/-eti (Southern dialect).
(795)

|  | Northern | Southern |
| :--- | :--- | :--- |
| 'third' | ile-äti | ile-nti |
| 'fourth' | di:-eti | di:-nti |
| 'fifth' | tur-äti | tura-nti |
| 'sixth' | $\tilde{n u \eta u-e t i ~}$ | $\tilde{n u \eta u-i t i ~}$ |
| 'seventh' | nad(a)-ä:ti | nada-inti(ti) |
| 'eighth' | zakpu-eti | zakpu-iti |
| 'ninth' | jeji-eti | jeji-eti |
| 'tenth' | za:-eti | za:-eti |
| 'eleventh' | za:-omo-iti | za-omo-iti |
| 'twelfth' | za:-zu-eti | za:-zu-eti |

Northern
ile-äti
di:-eti
tur-äti
nüทu-eti
nad(a)-ä:ti
zakpu-eti
jeji-eti
za:-omo-iti
$z a:-z u-e t i$

Southern
ile-nti
di:-nti
tura-nti
nüu-iti
nada-inti(ti)
zakpu-iti
jeji-eti
za:-eti
za-oто-iti
$z a:-z u-e t i$

### 11.1.2.2. Inflection

Like other modifiers, Ordinals are mostly used in a bare form in the attributive position (796). On their attributive agreement see 13.3.5. When used independently within a headless noun phrase (22.3.2) Ordinals inflect for case (797).
a. Nua-ni ilie-nti zugdi-du bagdi:-ni. he-3SG three-ORD house-DAT live-3SG 'He lives in a third house.'
b
b. Nad-ä:ti namu-le seven-ORD sea-LAT come-0-PC-3SG hill xo:n-dile-ni bie gunei top-LOC-3SG be.PRES.HAB EV zugdi-ti.
house-3PL
'When he came to the seventh sea he saw their house on the hill.' (K 181)
take-REP-INF become.PERF again that one-LAT ile-äti-ni wende:-ni.
three-ORD-3SG throw.PAST-3SG
'He took (the knife) again, and threw it into a second (girl), and then a third.' (K 184))
$\begin{array}{lllll}\text { b. } & \tilde{N a} \quad \text { uti } & \text { die-ti } & \tilde{n} a & \text { utebe } \\ \text { again that } & \text { four-ORD } & \text { again } & \text { so }\end{array}$

It should be noticed, however, that to some extent the Cardinal numeral has taken over the functions of the Ordinal numeral in its attributive use, cf.:
(798) Tuŋa bä-du egdi käfa.
five month many tick
'There are a lot of ticks in the fifth month (in May).'
The Ordinal numerals inflect for case like regular vowel-final nouns (799a). However, certain cases are attested when the case affix is inserted between the stem and the Ordinal marker -ti (799b). This fact indirectly shows that the component -ti within the Ordinal numeral suffix may ultimately go back to the $3^{\text {rd }}$ person Plural possessive marker.
$\begin{array}{lll}\text { a. } & \text { dii--nti-tigi } & \text { 'to the fourth' } \\ \text { ile-nti-we } & \text { 'the third' } \\ \text { b. } & \text { tuna-wa-ti } & \text { 'the fifth' } \\ \text { nadä-ma-ti } & \text { 'the seventh' (SK 318) } \\ & \text { ilä-tigi-ti } & \text { 'the third' }\end{array}$
(Schneider 1936: 111)
<four-ORD-LAT> <three-ORD-ACC> <five-ACC-ORD> <seven-ACC-ORD> <three-LAT-3PL>

Ordinals are compatible with a personal inflection. Independently used Ordinals in the $3^{\text {rd }}$ person Instrumental form have a repetitive meaning.
$\begin{array}{ll}\text { a. ili-enti-zi-ni } & \text { 'third time' } \\ \text { gagdan-ti-zi-ni } & \text { 'second time' }\end{array} \begin{aligned} & \text { <three-ORD-INST-3SG> } \\ & \text { <second-ORD-INST-3SG> }\end{aligned}$
b. Emne paktina-si-e-ni, once hit-IM-PAST-3SG second-INST-3SG ili-enti-zi-ni.
three-INST-3SG
'He hit once, (then) a second time, (then) a third time.'

### 11.1.3. Collective numerals and quantifiers

Numerals as well as the universal quantifier teu (11.2.2.1) have a Collective form that is associated only with animate (human) participants. Collective numerals occur in the attributive position or - more often - as an independent quantifier. Collective numerals for counting inanimate objects are lacking.

### 11.1.3.1. Formation

Collective numerals from 'three' to 'ten' have two regular forms: the attributive form and the independent form. The independent form is derived
with the suffix -nina ( $-\eta A h A$ in the Northern dialect), while the attributive form is derived with the suffix -tuŋa, cf.:
(801) independent form
ila-nina
di:-nina
attributive form
ilan-tupa 'all three' di:n-tura 'all four'

Numerals above 'ten' do not seem to have Collective forms. Obviously, the numeral omo 'one' also lacks such a form. The independent Collective form of the numeral zu:(be) 'two' is zune 'both'; the form zu:-nina is recorded but obsolescent; there is no special attributive form for this numeral.

The Collective suffix -nina is also employed in several quantificational words with a collective meaning (802) and is likely to be etymologically equivalent to the Comitative verbal suffix (8.2.1.4).

```
xufa-ni\etaa 'all together' cf. xufa-lanzi,xufa 'group'
    teu-niga
'all'
teu
'all'
```


### 11.1.3.2. Inflection

The attributive Collective form is used in preposition to the head nominal and remains uninflected, cf.:

| Abuga-i ilan-tuya sita-na-du-i |
| :--- |
| father-1SG thee-COL $\quad$ child-PL-DAT-REF |
| bu-o:-ni. |
| give-PAST-3SG |
| gun-ACC |

'The father gave one gun (for the use of) all three of his sons.'

Independent Collective numerals inflect for case as regular vowel-final nouns, but have the adverbial Accusative in ' $-f e$ (cf. 10.1.1) together with the nominal Accusative in -wA, cf. (806a) and (804c).
a. Nada-nina-tigi tu: mogoliei xetige-si-e-ni. seven-COL-LAT all around jump-IM-PAST-3SG '(She) jumped on each of the seven (beds).' (K 182)
b. U:na-u-ze su bi aka-la-i bring-CAUS-SUBJ you me back-LOC-REF to:to teu-me-n(i)-de nada-nina-wa. on.back all-ACC-3SG-FOC seven-COL-ACC 'I'll take all of you on my back (over the sea), all seven.' (K 185)
c. Zūe eme-i, zawa-i nexu-mi. both come-PRP take-PRP younger.sibling-REF 'They both came and brought their younger sister.'

| d. Säta | saki-nde-zeŋe-i | uti | zupe-we |
| :--- | :--- | :--- | :--- |
| strong | clap-SEM-FUT-1SG | that | both-ACC |
| ani | belie-we. |  |  |
| IND | fairy |  |  |

'I will clap strongly both these fairies.'

The Collective form zuye 'both' is compatible with Plural possessive affixes with the meaning 'both of us', 'both of you', 'both of them', see (806). In (806c) it has an attributive function.

Nua-ni ketu aja wakca-ini minti zune-digi. he-3SG very well hunt-3SG we.IN both-ABL
'He hunts better than both of us (put together).'


### 11.1.3.3. Collective form of the universal quantifier

The Collective form of the universal quantifier teu-nina and the quantificational adverb xufa-nina correspond to the meaning 'we all (together)', 'you all (together)', or 'they all (together)'; their exact interpretation can be retrieved from the context and the verb agreement. They mostly function as an independent subject (807), while teu-nina may also be used as a prepositional modifier within the subject noun phrase (808).
$\begin{array}{lll}\text { a. Teu-niga } & \text { ba:-la } & \text { etete-u. } \\ \text { all-COL } & \text { place-LOC } & \text { work-1PL.EX }\end{array}$
'We all work outside.'

| b. nequ teu-nina all-COL | geje |
| :--- | :--- | :--- | :--- |
| wolf |  |
| together | buni:-ti. |
| 'Wowl-3PL |  |

### 11.1.3.4. Functions of the quantifier zuye 'two, both'

The Collective numeral zuje 'two, both' is used as an independent subject quantifier typically in morphological or syntactic reciprocal constructions (16.1.6) as well as with inherently reciprocal verbs (16.2.3). In this role it is compatible with personal pronouns in the Plural (su zuye 'you two').

Furthermore, the quantifier zuye 'both' may have a subject-coordinative function. On subject coordination in the context of naturally reciprocal verbs see 16.2.3. The examples in (809) present instances of subject coordination in non-reciprocal constructions.

b. Abuga sita zuye yene:-ti. father son both go.PAST-3PL
'The father and the son left.'
c. Bi od'o zuŋe ugda-zi eine-u. me grandfather both boat-INST float-1PL.EX 'I and my grandfather go on a boat.'
d. Ni: n'aula zuye mo:-wo le-iti. man boy both tree-ACC saw-3PL
'A man and a boy are sawing a tree.'

### 11.1.4. Multiplicative numerals

Multiplicative numerals are formed by means of the suffix -liel-lä: immediately attached to the numeral stem.

$$
\begin{array}{ll}
\text { zu-lie, zu-lä:, zö: } & \text { 'twice' }  \tag{810}\\
\text { ila-lie, ila-lä: } & \text { 'three times' } \\
\text { di:-lie, di:-lä: } & \text { 'four times' }
\end{array}
$$

The Multiplicative suffix is not compatible with the numeral omo 'one'; the corresponding meaning 'once' is rendered by the adverb emne, cf., however, emn'e-lihe in the Northern dialect (Sunik 1968: 219). For numerals above 'ten' the Multiplicative forms are in principle available, but in practice they occur very rarely.

Multiplicative numerals function adverbially, and lack a case and personal inflection, cf.:
a. Nada-lä keku-nde:-ni. seven-MULT cockoo-SEM.PAST-3SG '(It) cried 'cuckoo' seven times.' (K 196)
b. Aziga omo
neni-ni zube-lie girl one day-3SG two-MULT kala-gi. change-REP.PRP 'The girl changes (clothes) twice a day.'
c. Ei we:-tigi
wei-lie tukti-wasi-e-mi. this mountain twenty-LAT climb-DIV-PAST-1SG 'I have climbed this mountain twenty times.'

The number of times can also be rendered by means of the word muda 'time, occasion'.

| Nua-ni | ila | muda | xuli-s'e. |
| :--- | :--- | :--- | :--- |
| he-3SG | three | time | go-EXP.PERF |

'He has traveled three times.'

```

In the Northern dialect the multiplicative meaning may be expressed with the suffix \(-m d A \sim-m d u\), -mugda, cf. ila-mda 'three times', di:-mde 'four times', but also zu:-mde dogbo-ni 'two nights' (SK 359), adi-mugda 'several times' (SKX 148), and gagda-mdu 'the second time' (SK 283).

\subsection*{11.1.5. Distributive numerals}

\subsection*{11.1.5.1. Formation}

There are two formal types of Distributive numerals that do not show any apparent semantic distinction. The first type is formed by a reduplication of the
corresponding Cardinal numerals. The second type is derived from the Cardinal numeral stems with the suffix - \(t A\), cf.:
\begin{tabular}{lll} 
omo-omo & omo-to & 'one each; singly' \\
zube-zube & zu:-te & 'two each; in pairs' \\
ila-ila & ila-ta & 'three each; in threes'
\end{tabular}

Distributive numerals above 'ten' are infrequent in speech and are rapidly being replaced by the corresponding Russian construction with the preposition po 'each, in'.

\subsection*{11.1.5.2. Inflection}

In the attributive function the Distributive numerals are uninflected.
a. \(\begin{aligned} & \text { Zube-zube } \\ & \text { two-two knige-we } \quad \text { bu-o:-ni. } \\ & \text { (He-ACC gave two knives (to each of them).' }\end{aligned}\) 'HSG
b. Ila-ila cä:za-wa obolo:-ni. three-three money-ACC divide.PAST-3SG
'He distributed the money three rubles to each.'
Used independently the reduplicated Distributive numerals take a case inflection so that both components inflect for case in a regular way (815), while derived Distributive numerals remain uninflected (816).
a. Omon-zi-omon-zi obolo-iti. one-INST-one-INST divide-3PL
'They divided (it) one each.'
b. zube-me-zube-me two-ACC-two-ACC 'by two (each)'
c. G'ai-ziga susa-kta:-ti crow-PL escape-DIS.PAST-3PL
min-zi
me-INST zun-zi-zun-zi. two-INST-two-INST 'The crows escaped from me in pairs.'
d. Di:-zi-di:-zi nede:-ni. four-INST-four-INST put.PAST-3SG
'He put (it) in groups of four.'
\(\begin{array}{ll}\text { Zu:-te } & \begin{array}{l}\text { obolo-iti. } \\ \text { two-DIST }\end{array} \\ \text { divide-3PL }\end{array}\)
'They divide (it) into two for each.'
The Instrumental form of the Distributive 'one' omon-zi-omon-zi is adverbialized with the meaning 'one by one, one after another'.

Omon-zi-omon-zi teu wo-si-e-ni.
one-INST-one-INST all make-IM-PAST-3SG
'She made everything, one thing after another.' (K 191)

\subsection*{11.1.6. Approximate numeral tume}

The numeral tume has an approximate meaning 'ten hundred, thousand, very many'. Its more precise semantic interpretation depends on the context. Cf. Russian t'ma 'ten thousand', figuratively 'a lot, multitude' (borrowed from Turkic tuman).

In Schneider's materials from Anyui (Schneider 1937: 80) an approximate is rendered by the suffix -mbA, cf.: za:-mba 'ana 'approximately ten boats.'

\subsection*{11.1.7. Restrictive numerals}

Restrictive numerals are derived with the suffix \(-t\) ' \(A\) or \(-s^{\prime} A\) (for the numeral 'one'), cf.:
\[
\begin{array}{ll}
\text { omo-s'o, omo-t'o } & \text { 'only one' }  \tag{818}\\
\text { zube-t'e } & \text { 'only two' } \\
\text { ila-t'a } & \text { 'only three' }
\end{array}
\]

Restrictive numerals for numbers higher than 'ten' are available, but are very infrequent.

According to Schneider (1936: 111) and Sunik (1968: 220), in the case declension of the Restrictive numerals the Restrictive suffix follows the case inflection: ilan-tigi-t'e 'only to three (LAT)' <three-LAT-REST>. In our material the Restrictive numerals appear to be uninflectable, both in the independent function (819) and in the attributive function (820).
\begin{tabular}{llll} 
a. \begin{tabular}{lll} 
Eitene & \(\tilde{n} a\) & tipmele-isi-ni \\
now & again \\
ogi-e-ni.
\end{tabular} & \begin{tabular}{l} 
zall-PC-3SG \\
rema
\end{tabular} \\
remain-PAST-3SG
\end{tabular}
'Now when one more (gull) fell down, only two were left.' (K 187)
b. Uti omo-s'o omo ogi-e-ma-ni
this one-REST one remain-PP-ACC-3SG
diana-ini jegdige.
say-0-3SG hero
'The hero spoke to the single (gull) that was left.' (K 188)
a. Min-dule omo-t'o in'ei bie. me-LOC one-REST dog be.PRES.HAB 'I have only one dog.'
b. O-lo wei-t'e zugdi esi-gi-e-ni. this-LOC twenty-REST house remain-REP-PAST-3SG 'Only twenty houses are left here.'
c. Omo-s'o tukca-wa zawa:-ni. one-REST hare-ACC take.PAST-3SG 'He caught only one hare.'
d. Min-du omo-t'o tieze-we bu-o:-ni. me-DAT one-REST ruble-ACC give-PAST-3SG
'He gave me only one ruble.'

\subsection*{11.1.8. Augmentative numerals}

Augmentative numerals are antonymous to the Restrictive numerals and express the opposite qualificative evaluation of the quantity denoted by the numeral stem ('only, as few as' vs. 'as many as'). They are formed by means of the suffix -ndimali.
(821)
zube-ndimali '(as many as) two'
ila-ndimali '(as many as) three'
tuna-ndimali '(as many as) five'
The Augmentative suffix -ndimali is not compatible with the numeral omo 'one'.

The Augmentative numerals are fairly infrequent in speech and lack inflection, cf.:
\begin{tabular}{lll} 
a. Uti & min-e-we \(\quad\) yele-wesi--ti, \\
that & me-0-ACC get.frightened-DIV-3PL \\
uti & getu, nada-ndimali uti. \\
that \(\quad\) PL seven-AUGM that \\
'They frightened me, all seven of them.' (K 182)
\end{tabular}
\(\begin{array}{llll}\text { b. } & \text { Ise-si:-ni } & \text { i:-le } & \text { bie-de } \\ \text { see-IM-3SG } & \text { what-LOC } & \text { be.PRES.HAB-FOC } \\ \text { nada-ndimali } & \text { beliente } & \text { tene } & \text { gune. } \\ \text { seven-AUGM } & \text { fairy } & \text { CONT } & \text { EV }\end{array}\) 'He sees: where all seven (gulls) were there (now) are fairies.' (K 184)

\subsection*{11.2. Quantifiers}

In this section we characterize the scalar quantifiers (9.7.1) and the universal quantifiers (9.7.2) with respect to their meaning and basic functions. Quantifiers are morphologically and syntactically similar to adjectives, but differ from them in a number of properties.

\subsection*{11.2.1. Scalar quantifiers}

The following are the most important scalar quantifiers in Udihe:
```

egdi 'many, much, a lot'
adigende 'several (of animate objects)'
wac'a '(a) few, (a) litle'
xa:ni 'several (of inanimate objects)'
lä(si),tä(si) 'many, much, a lot'
nayga '(a) little, (a) few'
egdilenki 'multitude of'
adi adi 'some, several'
ei egdilenki 'that many, that much'

```

Scalar quantifiers function as prenominal uninflected modifiers within the quantified noun phrase (13.3). The quantifiers lä(si), tä(si) and napga also function as degree adverbs (10.1.4). Most scalar quantifiers may stand distantly from the modified nominal, thus, they may exhibit some sort of quantifier float (24.2.1.2.2).

The quantifiers egdi 'many, much, a lot' and wac'a '(a) few, (a) little' have a number of properties not typical of other quantifiers, but otherwise characteristic of adjectives. First, they may be nominalized and act as independent headless noun phrases (22.3.2). Second, they can undergo raising (24.2.1.1.2). Consequently, they are the only scalar quantifiers that take a case and possessive inflection. Notably, the quantifier wac'a belongs to morphonological class II; its oblique stem is wac'an-.

\subsection*{11.2.2. Universal quantifiers}

On the universal quantifiers gä: \(\eta a\) 'every' and omo 'whole' and the pronominal determiner gele 'each', see 9.7.

\subsection*{11.2.2.1. Universal quantifier teu 'all'}

The most frequent universal quantifier is teu 'everybody, everything; all', often phonetically reduced to \(t u\) :. In certain syntactic functions it takes case inflections following the pattern of class II nouns (6.1.1), that is, it has an \(n\) final stem (teun-) in cases other than the Nominative and the Accusative. On the collective form of the universal quantifier see 11.1.3.

\subsection*{11.2.2.1.1. Modifier function}

The universal quantifier acts as a prenominal modifier within a quantified noun phrase (824a). Like most other modifiers it occurs either in preposition or in postposition to the head noun; in the latter case it is substantivized and inflects for case and the \(3^{\text {rd }}\) person (824b).
a. teu ni:-du teu čind'a-wa
b. kusige teun-di-ni
kusige teu-me-ni
in'ei teu-ni

Constructions like (824b) are referred to as modifier raising. Quantified noun phrases with the prenominal universal quantifier are addressed in 13.3; on the postnominal universal quantifier (the instance of modifier raising) see 24.2.1.1.2.

In the quantifier float construction the universal quantifier has an uninflected form; such a construction is addressed in 24.2.1.2.2

\subsection*{11.2.2.1.2. Argument function}

The universal quantifier teu serves as an autonomous pronoun with the meaning 'everything, everybody'. Examples (825) and (826) demonstrate its use in argument position. In (825) it takes the subject position, while in (826) it corresponds to the direct object role and takes the Accusative case.
a. Kalima ule:-ni teu diga:-ti. whale meat-3SG all eat.PAST-3PL 'They were all eating whale meat.' (K 114)
b. Teu lagbana:-ti.
all get.stuck.PAST-3PL
'All (of them) got stuck.'
(826) a. Bi teu-me-ni sa:-mi.
me all-ACC-3SG know-1SG 'I know everything.'
\(\begin{array}{lll}\text { b. } & \text { Nua-ni teu-me-ni (~ teu) } & \text { gagi-e-ni. } \\ & \text { he-3SG all-ACC-3SG (all) } & \text { take.away-PAST-3SG } \\ & \text { 'He took everything away.' } & \end{array}\)
In the object role the morphological Accusative marking is optional, and the Nominative form can be used as well.
\(\begin{array}{lll}\text { a. } & \text { Nua-ni } & \text { alamasi-gi-e-ni. } \\ \text { he-3SG all } & \text { repeat-REP-PAST-3SG }\end{array}\)
'He repeated everything.'
b. Teu
guy-ki-ni exi-ni.
all tell-PAST-3SG elder.sister-3SG
'Her older sister told us everything.' (K 7)

\subsection*{11.2.2.1.3. Adverbial function}

The Nominative form of the universal quantifier always reduced in \(t u\) : in this function can be used as a continuative adverb with the meaning 'still, always, all the time.' A similar use is observed for the Russian universal quantifier vs'e.
a. Neŋu-ni
younger.sibling-3SG all hunt-DIR.PAST-3SG
'Her younger brother always goes hunting.' (K 127)
b. Adi-ma
how.many-ACC
aךа-ni
year-3SG
zomo-si-u
steal-IM-2PL
mun-e-we tu:-de?
we-0-ACC all-FOC
'How many years have you been robbing us all the time?' (K 180)
c. B'ata-iti-ti tu: wakca-i.
boy-AL-3PL all hunt-PRP
'Their son hunts all the time.' (K 189)

\subsection*{11.2.2.1.4. Meanings 'whole' and 'all'}

The quantifier teu can be associated with Singular countable nouns and mean 'whole, completely' (829) and with mass nouns and mean 'all' (830). As far as our material shows, such a meaning may only arise in quantifier float constructions, cf.:
\(\begin{array}{lllll}\text { a. } & \text { Bi tege-i } & \text { teu nukto:-ni. } \\ & \text { me gown-1SG all } & \text { get.wet.PAST-3SG }\end{array}\)
e. Nua-ni omo neni-ni teu bi-s'e.
he-3SG one day-3SG all be-PERF
'He was (here) the whole day.'
\begin{tabular}{llll} 
a. & Bi imo:-ni-we-i & teu & diga:- \(i\). \\
& me fat-AL-ACC-1SG & all & eat.PAST-2SG
\end{tabular}

\subsection*{11.2.2.2. Universal quantifier käu 'all'}

In the Northern dialect a universal quantifier käu (Kormušin) ~ kai tai (Simonov) 'all' has the distribution, morphology, and usage basically identical to that of the quantifier teu 'all'. Given that teu can also be found in the Northern dialect, it is unclear whether teu/käu are simply phonological variants, or they also differ in other respects. Example (831) illustrates the floated quantifier käu; examples (832) show it in the argument position. Yet the nonfloated quantifier käu in the modifier function does not seem to be allowed.

Tagixule kä:gdu kalima-la käu tagdimagi-e-ni. further coastal whale-CONT all pull.out-PAST-3SG 'He pulled out all the whales, the distant ones and the coastal ones.' (K 114)
a. Senke zeu käu zegdi:-ni. ledum food all burn-3SG
'The ledum, the food, everything is burning.' (K 123)
b. Su: maŋga käu-käu čaluga-wan-a. son strong all-all melt-CAUS-0 'The sun is strong, it melts everything.' ( K 124)
c. Käu gektin-zi buk-ki-ti.
all freeze.PP-INST die-PAST-3PL
'Everybody died from the cold.' (K 120)
d
d. Käи
\(b i:-n i\)
bubu.
all be-3SG EV
'Everything was there, apparently.' (K 109)
e. dogbo kai
night all
'all night' (SKX 316)
11.2.3. Reduplication of universal quantifiers as a stylistic device

Like adverbs (10.1.6), universal quantifiers are likely to be repeated twice, which somewhat intensifies their meaning.
a. Teu niyme-le-si-e-ni
all swallow-SING-IM-PAST-3SG
teu ñeŋue-we.
all ogre-ACC
'He swallowed everything (completely), all the ogres.' (K 118)
b. Dili-we-ni teu konko-mo-gi-e-ni
head-ACC-3SG all hit-INTN-REP-PAST-3SG
käu käu-de.
all all-FOC
'He hit all their heads (completely).' (K 111)

\section*{Chapter 12 \\ Particles and extra-clausal elements}

Particles addressed in 12.1 have no inflectional or derivational morphology. Extra-clausal elements discussed in 12.2 express various aspects of conversational interaction.

\subsection*{12.1. Particles}

This section addresses two major functional classes of Udihe particles, the focus particles (12.1.1) and the discourse particles (12.1.2). The frequency of particles of both classes in Udihe speech is fairly high, and the meaning of each particular particle is often difficult to describe and render accurately in European languages. We will characterize them only briefly, but give numerous illustrative examples. Particles used in questions ( \(-n A,-n u,-A s(i) . .\). \(A s(i),-n u \ldots-n u)\) and in conjunctive and disjunctive structures ( - As(i) ... -As(i) and \(-k A \ldots-k A\) ) are addressed in Chapters 23 and 18 respectively.

From a formal point of view, particles are either cliticized, or independent. Clitics immediately follow the element in their scope and are phonologically bound to it. On the definition of clitic in Udihe see 3.5.3.1. Clitic particles will be written with a hyphen. The non-cliticized particles are phonologically independent: they bear their own stress and behave as separate words with respect to vowel harmony, that is, have only one phonetic form. They also tend to immediately follow the word over which they take scope, although they can be separated from it under certain conditions. Most of the particles in Udihe are non-clitics. Note that clitics often co-occur. When two clitics are combined, the output form behaves as a complex independent particle (dele, deke, gdele), see 3.5.3.2.

Although particles and degree adverbs (10.1.4) have partially intersecting functions, they differ syntactically: as distinct from adverbials, particles are not constituents of the clause and cannot be questioned.

The clitic particles \(-d A,-k A\) and sometimes \(-l A\), as well as the independent particle de(xe)m, participate in a word-formation process: they derive indefinite pronouns. These cases are treated in 9.6.

\subsection*{12.1.1. Focus particles}

The focus particles indicate that the constituent in their scope bears a focus status (on the definition of focus see Chapter 24). We will distinguish between additive, restrictive, replacing, and contrastive focus. Focus particles either precede or follow the element within their scope; in the latter case they are either cliticized or phonologically independent. The preposed focus particles (xai(si) and \(\tilde{n} a\) ) tend to take scope over the predicate or the verbal phrase, while the postposed focus particles normally take scope over a NP, adjectival phrase, adverbial or postpositional phrase. However, this rule seems to be only a preference.

If the meaning of a focus particle is difficult to render, it is glossed as FOC. A few focus particles seem to be borrowed from the Chinese (1.5.1.2.2).

\subsection*{12.1.1.1. Additive particle \(x a i(s i)\)}

This particle has two variants, xai and xaisi, which seem completely interchangeable. It never has a NP in its scope, but always either a predicate (a verbal phrase), an adverbial phrase, or the whole sentence.

\subsection*{12.1.1.1.1. Meaning 'too, also'}

The particle \(x a i(s i)\) indicates the repetition of a situation, but possibly with a different subject. In this case it precedes the predicate (834a) or the verbal phrase (834b). Under the scope of negation the corresponding meaning is 'either' (835).
\begin{tabular}{llll} 
a. & Bi \(\quad\) zugdi: & sagdi & nua-ni \\
me \(\quad\) home.1SG large & he-3SG \\
zugdi-ni-de \(\quad\) xai(si) sadgi. & \\
house-SG-FOC also large & \\
'My house is large, his house is large too.'
\end{tabular}
 \(\begin{array}{llllll}\text { Aziga-ni-ni } & \begin{array}{l}\text { xaisi }\end{array} \text { ute } & \text { bede } & \text { e-ini } & \text { ča:la } \\ \text { girl-AL-3SG } & \text { either } & \text { that } & \text { like } & \text { NEG-3SG } & \text { want }\end{array}\) 'This girl does not want it either, like that one.'

\subsection*{12.1.1.1.2. Meaning 'again'}

With the meaning 'again (one more time)' (the complete repetition of a situation) the particle xai(si) has the whole sentence in its scope. Its position is then more or less free, but normally it tends to stand closer to the predicate, if not immediately preceding it. The meaning 'again' implies a perfective situation.
a. Timana-ni xaisi kaja-za-mi we:-tigi. tomorrow-3SG again end-SUBJ-1SG mountain-LAT 'Tomorrow I will send (him) to the mountains again.' (K 175)
\(\begin{array}{lll}\text { b. } & \text { Xai } & \text { ima:-zi } \\ \text { again } & \text { snow-INST } & \begin{array}{l}\text { buge:-ni. } \\ \text { cover.PAST-3SG }\end{array}\end{array}\)
'He covered it with snow again.' (K 179)
c. Tuxi xaisi kumteg'e. sledge again turn.over.PERF 'The sledge turned over again.'
d. Abuga xai nua-gi-e-ni. father again sleep-REP-PAST-3SG 'The father fell asleep again.'

Under the scope of negation the particle xai(si) corresponds to the meaning 'not yet' (837b) or 'not again' (837a).
\(\begin{array}{ll}\text { a. } & \text { Xaisi anči. } \\ \text { again no } \\ \text { 'It is not here again.' ( } & \text { ( 30) }\end{array}\)
b. Abuga xaisi e-si-ni

Father again NEG-PAST-3SG come-REP
'The father has not come yet.'
12.1.1.1.3. Meaning 'still, more'

When co-occurring with an imperfective verb, the particle xai(si) is likely to have a continuative meaning 'more, longer, still', as shown below.
a. \(\quad \mathrm{Xai}\)
go:go yua-za-ni.
more long sleep-SUBJ-3SG
'He will still sleep for a long time.'
\(\begin{array}{llll}\text { b. N'ädiga } & \text { wa:-la bi nuan-digi } & \text { xai } \\ \text { Nadiga } & \text { kill-N me he-ABL more } \\ \text { wa:-la } & \text { bi-mi. } & \\ \text { kill-N } & \text { be-1SG } \\ \text { 'Nadiga is lucky (in hunting) and I am more lucky than him.' }\end{array}\)

\subsection*{12.1.1.1.4. Meaning 'still, yet, anyway, although'}

A number of examples indicate that the particle xai(si) has an additional contrastive meaning. In this case it takes scope over a proposition which is contrary to certain expectations, and the best English equivalents are 'still', 'yet', 'anyway', or 'although'.
\(\begin{array}{lllll}\text { a. } & \text { Su: anči } & \text { bi-mi } & \text { xai } & \text { ñamai. } \\ \text { sun no } & \text { be-INF } & \text { still } & \text { warm }\end{array}\)
'There is no sun, yet it is warm.'
b. Bi läsi deu-mi xai zuliexi ŋene-mi. me very be.tired-1SG still further go-1SG 'I am very tired, still I go further.'
c. Nua-ni e-zene jene bi-si-ni xai(si) he-3SG NEG-FP go be-PP-3SG still nene:-ni.
go.PAST-3SG
'Although he didn't have to go, he still went.'
d. Bi xaisi xuli-zene- \(i\).
me still go-FUT-1SG
'I will go anyway.'
e. Zua-de xai injeni bie. summer-FOC even cold be.PRES.HAB 'Although it is summer, it is cold.'

\subsection*{12.1.1.1.5. Meaning 'same'}

Combined with anaphorical pronouns of the series (u)ti (9.4.1.2, 22.1.2.2) the particle xai(si) means 'same, very same'.
\begin{tabular}{ll} 
a. & Xaisi uta-du manda bi:-ni. \\
same that-DAT lie \\
'He is lying in the same place.'
\end{tabular}
\begin{tabular}{llllll} 
b. \begin{tabular}{l} 
Bi-de \\
me-FOC sai utelinie
\end{tabular} & \begin{tabular}{l} 
neni-ni \\
day-3SG
\end{tabular} \\
nene:-mi.
\end{tabular}

\subsection*{12.1.1.3. Additive clitic particle \(-d A\)}

This is the most frequent additive focus particle and the main means of expressing coordination in Udihe. The basic meaning is 'too', 'and', 'as well', or 'even'. It functions as a clitic and follows the word in its scope, most typically a noun. The particle \(-d A\) also has a word-formation function, see section 9.6 on indefinite pronouns. On the coordinative function of \(-d A\) see 18.1.

\subsection*{12.1.1.3.1. Meaning 'too, as well'}

The meaning 'too, as well' in non-coordinated constructions is illustrated in (841). Under the scope of negation its meaning is 'either', illustrated in (842).
a. \(A g^{\prime} a\) bi-de yene-ze-mi.
brother me-FOC go-SUBJ-1SG
'Brother, I will also go.' (K 111)
b. P'aligi mafa-da
wa:-ni
gida-zi.
black bear-FOC kill.PAST-3SG
spear-INST
'With his spear he killed the black bear as well.' (K 131)
(842) \(B i-d e\) me-FOC NEG-FUT-1SG 'I will not pour (water) either.'
kungede.
pour

\subsection*{12.1.1.3.2. Meaning 'even'}

In the meaning 'even' the particle \(-d A\) can take scope over practically every element of the clause. Example (843) illustrates the predicate within the scope of this particle, while example (844) shows the standard of comparison.
\begin{tabular}{llll} 
a. & Nua-tigi-ni & tagda-mi-de & wadi-e-ni. \\
& he-LAT-3SG & get.angry-INF-FOC & stop-PAST-3SG \\
& 'He even stopped being angry with him.'
\end{tabular}
b. Tani-mi-de
\(e\)-ini \(\tilde{n} o n i\). read-INF-FOC
NEG-3SG can 'He can't even read.'
c. Bi bejeku bi-si-ni-d
eki-je. me similar be-CC-3SG-FOC stay-IMP.2SG 'Even if she is similar to me, stay (with her).' (K 166)
\[
\begin{array}{lcll}
\text { Zugdi-digi-de } & \text { sagdi } & \text { ni: eme:-ni. }  \tag{844}\\
\text { house-ABL-FOC } & \text { big } & \text { man come.PAST-3SG } \\
\text { 'A man came who was even bigger than a house.' }
\end{array}
\]

\subsection*{12.1.1.3.3. The emphatic focus function}

The particle \(-d A\) can be used in order to emphasize the assertion associated with the corresponding element without bringing about the additive meaning. In other words, the element within its scope expresses new information that is not necessarily construed as "additive". Such a focus particle takes scope over any sort of constituent, for example, a subject (845), a predicate (846), and a postpositional phrase (847). It easily co-occurs with other elements that normally bear the focus in the sentence, such as the negative auxiliary (848a), a quantified NP (848b), or an emphatic reflexive pronoun (848c).
\begin{tabular}{lllll} 
Alagdig'a & bejeni & belie. & Uta-da & tonzilo:-ni \\
beautiful & very & girl & that-FOC & jump.PAST-3SG
\end{tabular}

Uza 'ai-ni-de.
Uza brother-3SG-FOC
'A very beautiful girl. Uza's brother jumped at her.' (K 110)
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{a.} & Nua-ni he-3SG & bogdolo-ni shoulder-3SG & \begin{tabular}{l}
eyme-de. \\
wide-FOC
\end{tabular} & \\
\hline & \multicolumn{4}{|l|}{'He has wide shoulders.'} \\
\hline \multirow[t]{4}{*}{b.} & Pakula Pakula & \begin{tabular}{l}
zo:ŋku \\
poor
\end{tabular} & bi-mi-de be-INF-FOC & zaja cheerful \\
\hline & bi-si-ni. & & & \\
\hline & be-PAS & & & \\
\hline & 'Althoug & akula was poor & e was chee & \\
\hline
\end{tabular}
c. Bi tani-e-mi
men-e teu
egzeli:
me read-PAST-1SG
REF-0 all
understand.PRP dexi-de.
until-FOC
'I kept reading until I understood everything.'
\begin{tabular}{cllll} 
Ono & tukä-u & guläku bede-de & asi & tuge-zi? \\
how & run-2PL & map like-FOC & very & quick-INST
\end{tabular}
'Why are you running very quickly, like mad people?'
a. Nua-ni Moskva-la e-si-ni-de i:n-e. he-3SG Moscow-LOC NEG-PAST-3SG-FOC come-0 'He didn't reach Moscow.'
b. Omo kusige-we-de one knife-ACC-FOC xebu-je. 'Take (at least) one knife.'
c. Jexe-zeŋe-ni men-e-de. sing-FUT-3SG REF-0-FOC 'He himself will sing.'

As a particle encoding the focus element in the sentence, \(-d A\) is often combined with other focus particles discussed in this section. In (849) it co-occurs with the restrictive focus particle m'ei 'only' (12.1.1.9) and in (850) it co-occurs with the additive particle \(\tilde{n} a\) 'more' (12.1.1.4).
a. Ei getu-we-fi
this PL-ACC-REF.PL emende kägampa-ni which lier-3SG m'ei-de bie only-FOC be.PRP.HAB PL shaman.pole-ACC teu tokto-gi-e-mi.
all cut-REP-PAST-1SG
'I have cut down their shaman pole intending to kill them, having very much believed the words of this witch-liar.' (K184)
b. Zugdi
do-lo-ni
house inside-LOC-3SG
aisi-gi-si-e-ni.
mend-REP-IM-PAST-3SG
'She arranged everything in the house, only in a different way.' (K 167)
```

(850) Tukti-je \tilde{n}a gugda-la-da.
climb-IMP.2SG more high-LOC-FOC
'Climb even higher.'

```

The focus particle \(-d A\) with an emphatic impact is commonly present on predicative adjectives within copular constructions (17.2.2.1.1) and on predicate adverbials, especially when they stand in the immediately postverbal position (see the examples in 10.1.7.1).

\subsection*{12.1.1.3.4. Exclamative function}

Often the emphatic focus particle \(-d A\) is used in exclamations like those presented in (851).


\subsection*{12.1.1.4. Additive particle \(\tilde{n} a\)}

The non-clitic additive particle \(\tilde{n} a\) is specialized in the meaning 'again, once more'. Normally its position is directly before the predicate or the verbal phrase.

\subsection*{12.1.1.4.1. Meaning 'again, once more’}

The semantic difference between \(\tilde{n} a\) and \(x a i(s i)\) is hard to estimate and in fact these two particles can co-occur. In (852) we present examples of the particle \(\tilde{n} a\) with the meaning 'again'.
\begin{tabular}{llll} 
a. & Bi \(\quad\) abuga- \(i\) & \(\tilde{n} a\) & nua-ini. \\
me & father-1SG & again & sleep-3SG \\
& 'My father is sleeping again.'
\end{tabular}
b. Ña eme-gi-zene-i.
again come-REP-FUT-1SG
'I will come again.'
c. \(\tilde{N} a\)
ilakta-ni-e-ni
again appear-REP-PAST-3SG
kalima-la.
whale-CONT
'The whale appeared again.' (K 117)
Within a negative polarity sentence the meaning of this particle is 'not anymore' (853). However, it cannot express the meaning 'not yet', as xaisi does (12.1.1.1.2).
a. \(\bar{N} a\)
e-zene-i
eme-gi.
again NEG-FUT-1SG
come-REP
'I will not come anymore.'
b. \(\tilde{N} a\)
ali-de again when-IND
e-zene-i nele.
'I will never be afraid anymore.' be.afraid

\subsection*{12.1.1.4.2. Meaning 'also, as well'}

It seems that the particle \(\tilde{n} a\) can correspond to the meaning 'also, as well' and express the repetition of the same situation by a different participant.
a. Gun-e-mi ña tinmel'e.
say-0-INF also fell.PERF
'Having said (that) she also fell down (as did someone else).'
(K 186)
b. Uta-digi na uti-de xai dian-a-ini. that-ABL again that-FOC again speak-0-3SG 'Then that one also spoke again.' (K 188)
\(\begin{array}{lll}\text { c. } & \tilde{N a} & \text { diga-la-ni } \\ \text { also } & \text { eat-PURP-3SG } & \begin{array}{l}\text { olokto-si-ze-ni. } \\ \text { cook-IM-SUBJ-3SG }\end{array}\end{array}\)
'She is also going to cook some food for them.'

\subsection*{12.1.1.4.3. Meaning 'more, another'}

When it precedes a noun phrase the particle \(\tilde{n} a\) also means 'more, another'. However, relevant examples are rather infrequent.
\[
\begin{array}{llll}
\text { a. } & \tilde{N a} \quad \text { omo } & \text { ige-le } & \text { i: } \eta \text {-ki-ni. }  \tag{855}\\
\text { more one village-LOC } & \text { come-PAST-3SG } \\
& \text { 'He came to one more village.' (K 120) }
\end{array}
\]


\subsection*{12.1.1.5. Contrastive particle tene}

The contrastive particle tene may have appeared as a contraction of two contrastive clitics \(-t A\) and \(-n A\). These clitics are not frequent. On the former see 12.1.1.11.2; the latter mostly occurs in the Northern dialect.

\subsection*{12.1.1.5.1. Meaning 'and, but, while'}

The contrastive particle tene is placed immediately after the focused element, normally a subject. It indicates that the whole situation is opposed to another situation, which necessarily has a different subject participant. Normally, the contrasting situation is explicitly expressed in the context as well. The two situations can be completely different, and be related only because they take place at the same time, as in (856). Alternatively, they can share the predicate and then, apart from involving different subjects, the two situations can also differ in time reference, as in (857).
a. Bi mama-i
me grandmother-1SG
tene zugdi-tigi
bude:-ni
bu

CONT house-LAT move-PRP be-PERF-1PL.EX
'My grandmother died while we were moving.'
b. Bi yene-isi nua-ti diga-mi
me go-PC.1SG he-3PL eat-INF CONT
metu-o:-ti
finish-PAST-3PL
'I came but they had already finished eating.'
c. \(S i \quad k u i-\eta i\) : egdi bi tene
you force-AL.2SG much me CONT
sin-digi tuge bi-mi.
you-LAT quick be-1SG
'You have a lot of strength, but I am faster than you.'
d. Yegdige tene zu: belie-zi mamasa-la:-ni hero CONT two girl-INST wife-V-PAST-3SG mamaka tene eni-ti o-isi-ni.
old.woman CONT mother-3PL became-PC-3SG
'The hero married the two girls, and the old woman became their mother.' (K 108)
a. Ekize ni-de e-s'e eme si
long who-IND NEG-PERF come you
tene eme:-i.

CONT come.PAST-2SG
'Nobody had come for a long time, and then you came.' (K167)
b. Bi tene ei dogbo-ni bude-zeŋe-i, me CONT this night-3SG die-FUT-1SG gur-ki-ni, bi neŋu-mi say-PAST-3SG me younger.sibling-1SG
tene timana dogbo-ni bude-zeye-ni. CONT tomorrow night-3SG die-FUT-3SG
'She said: I will die tonight and my sister will die tomorrow night.' (K 132)

\subsection*{12.1.1.5.2. Non-contrastive meaning}

The contrast may not be that explicit. In (858) the contrastive meaning of tene is not obvious, and it might simply indicate the introduction of a new participant into the text. Yet this is not a frequent option.

Seuni: seuni: xulis'e,
gur-ki-ni,
awful awful come.PERF say-PAST-3SG
tene-de.
CONT-FOC
'She said: an awful Zandalafu came.' (K 105)

\subsection*{12.1.1.5.3. Non-subject contrast}

In a few examples in our corpus the particle tene follows a non-subject element, and expresses contrastive focus.
a. Uta-digi tene wayba diga:-ni. that-ABL CONT tortoise eat.PAST-3SG
'And then (only then) the tortoise ate (not before).' (K 137)
b. Pakula men-e kawa-tigi: neu-gi-e-ni

Pakula REF-0 tent-LAT.REF put-REP-PAST-3SG
lonko-wo, käfakti-we tene mamasa-du-i
pot-ACC bell-ACC CONT wife-DAT-REF
bu-gi-e-ni.
give-REP-PAST-3SG
'Pakula put the pot in his tent and gave the bells to his wife.'
\begin{tabular}{llll} 
c. \begin{tabular}{ll} 
Zugdi & kä:-la-ni
\end{tabular} i:n-e-lisi-ni & tene \\
house side-LOC-3SG come-0-CC-3SG & CONT \\
ñ'aula-ziga & nemugdi & b'a-mi & \\
child-PL & cheerful & get-INF \\
xeuti-si-li-e-ti. & \\
shout-IM-INC-PAST-3PL \\
'When he was coming to the house, the children became cheerful \\
and started shouting.'
\end{tabular}

\subsection*{12.1.1.6. Contrastive particle dele}

This is not a very frequent particle. It apparently originates as a conflation of two clitic focus particles \(-d A(12.1 .1 .3)\) and \(-l A(12.1 .1 .7)\). The particle dele itself, however, is not a clitic: it bears its own stress and does not harmonize to the preceding word.

\subsection*{12.1.1.6.1. Meaning 'or else'}

This particle follows the predicate and expresses warning, namely, that the corresponding situation might result from another situation and is undesirable. An approximate English translation is 'or else, otherwise', and a close Russian equivalent is \(a\) to. Importantly, the two clauses are syntactically conjoined and share the subject. This can lead to the passivization or causativization of the second clause, as discussed in 22.2.1.2.
\begin{tabular}{lllll} 
a. & E-zi & te-wen-e & ei & tenku-le \\
NEG-IMP.2SG & sit-CAUS-0 & this chair-LOC
\end{tabular}

\subsection*{12.1.1.6.2. Emphatic questions}

In the Northern dialect this particle may attach to the wh-question word and add emphasis to the question.
\begin{tabular}{lll} 
J'eu & dele & \(n i-n i\) \\
what & CONT & man-3SG
\end{tabular}
'What sort of man came?' (K 112)

\subsection*{12.1.1.7. Replacing particle \(-l A\)}

The clitic particle - \(l A\) is characteristic of the Northern dialect, although it is occasionally found in the Bikin dialect as well. Its main function is to encode the new (replaced) topic, so it may be termed a replacing particle. Since the topic normally corresponds to the subject (Chapter 24), the scope of the particle \(-l A\) is usually a subject NP.

\subsection*{12.1.1.7.1. Replaced topic}

Normally the particle -lA signalizes the introduction of a new participant in the text, and is placed after the subject when it differs from the subject of the previous sentence (862a). The sentences where the subject is followed by the particle -lA may appear at the very beginning of the text. This, in fact, indicates that the function of this particle is to mark a new topic, whether it replaces the old topic or not. Example (862b) is the beginning of a folklore tale.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{a.} & nene-mi & \multicolumn{3}{|l|}{nene-mi molo-li-e-ni} \\
\hline & go-INF & go-INF & \multicolumn{2}{|l|}{cut.tree-INC-PAST-3SG} \\
\hline & exi-ni. & & Zaydalafu-le & eme:-ni. \\
\hline & elder.siste & 3SG & Zandalafu-CONT & come.PAST-3SG \\
\hline & 'Walking came Za & alking, th lafu.' (K & he elder sister start 104) & utting wood. And there \\
\hline
\end{tabular}
b. Neŋu-mule bagdi-e-ti belie-ziga-la. younger.sibling-N live-PAST-3PL fairy-PL-CONT
'There lived two fairies, two sisters.' (K 104)
The subject which introduces a new topic and takes the particle - \(l A\) often takes the last linear position in the sentence, which reflects the universal word order tendency for inversion to occur in presentational constructions (see 24.1.2.2); consider the following example.
-Aziga ... od'o dili-we-i
girl grandfather head-ACC-REF
kume-di-ne-fi, kume-di-ne-fi.
flea-V-DIR-1PL.IN flea-V-DIR-1PL.IN
Kume-di-li-e-ni belie-le.
flea-V-INC-PAST-3SG fairy-CONT
'Girl, come and let us look for fleas in grandfather's head. The fairy looked for fleas.' (K 105)
```

The particle -lA also marks the change of participant (the subject) in the focus of the speaker's attention, or the alternation of subject participants. Example (864b) presents a dialogue where the change of person speaking (Uza) is indicated by the particle -lA. In (864b) the same particle signalized the "shift" of attention from the subject (topic) of the first sentence (Uza) to the subject (topic) of the second sentence (Uza's brother).


### 12.1.1.7.2. Multiple occurrence of the particle - $I A$

When the particle -lA occurs twice within one sentence it is placed both after the subject and after the other element.
a. $E:$

INTER old.woman-CONT many kill.PAST-3SG
sugzä:-wa-la um'a-zi-le.
fish-ACC-CONT hook-INST-CONT
'The old woman caught a lot of fish with a hook.' (K 109)

| b. yene-ixi-ni-le | kalima-wa-la |
| :--- | :--- |
| go-PC-3SG-CONT | whale-ACC-CONT many |
| magi-e-ni | Uza-la. |
| kill-PAST-3SG | Uza-CONT |
| 'When he (another) was walking, (he saw that) Uza had killed |  |
| many whales.' (K 114) |  |

12.1.1.7.3. Predicate in the scope of -lA

The particle -lA is less regular and transparent within the domain of the predicate. Its meaning in this case may be merely emphatic, cf.:

```
Uza 'ai-ni gakpa:-ni-la uta-du.
Uza brother-3SG shoot.PAST-3SG-CONT that-DAT
'Uza's brother shot there with the bow.' (K 108)
```


### 12.1.1.8. Contrastive particles $g d e l e,-g d A,-g d u$

The contrastive clitic particle $-g d A,-g d u$ is easily combined with the contrastive clitic -LA (12.1.1.7), so we can speak here about the complex particle gdele. Its phonological variants are gdeli and gdali. The complex particle is mostly found in the Northern dialect, although occasionally it may also be present in the Bikin dialect.

The contrastive particle -gdA occurs in the negative construction expressing state (23.2.1.4).

### 12.1.1.8.1. Contrastive meaning

The meaning of the contrastive clitic particle $-g d A,-g d u$ is rather difficult to catch. In (867) it seems to be close to that of the particle tene, that is, it indicates the contrast between the two situations by attaching to the subject. Sometimes it seems simply to indicate assertive focus and/or emphasis, and in this case it can follow virtually any element of the sentence, not necessarily the subject, as in (868).
a. G'ai... tuge tuge yene-mi ja:-wa-ni raven quick quick go-INF eye-ACC-3SG tokto-mo:-ni, hit-INTN.PAST-3SG
ja:-wa-ni pusiewe:-ni, anda-i wa:-ni g'ai gdele. friend-REF kill.PAST-3SG raven CONT 'The raven, having come quickly, hit his eyes, pierced his eyes, the raven killed his friend.' ( $\mathrm{K}_{134}$ )
b.
Uti gdele
That CONT
'That was him.' (K 51)

```
Anči-gde susa:-ni.
no-CONT escape.PAST-3SG
'He escaped to nowhere.' (K 164)
```


### 12.1.1.8.2. Limitative meaning

The cltitic particle -gdA following certain adverbs, adjectival and nominal modifies their meaning by bringing to it an additional limitative component. It may follow an inflected (869a) or uninflected (869b) form.
a. bagä:-la-gda
na:-la-gda
ŋä:-la-gda
b. muda-gda
meje-gde
xutali-gda
aja-gda
'till the opposite side'
'to the ground'
'till the riverbank'
'till the end' (SK 567)
'till the end' (SK 577, 677)
'till it gets red' (SK 691)
'till it gets nice' (SK 697)

In the following examples the spatial meaning is almost masked by the limitative one:
a. Xegie-le-gde ute mo:-wo-ni below-LOC-FOC that tree-ACC-3SG tugbe:-k. chop.PAST-EXPR 'He chopped the tree completely (till the root).'
b. Xe:-gde umi-je.
below-FOC drink-IMP.2SG
'Drink (it) to the dregs (bottoms up).'


### 12.1.1.9. Restrictive particle $m^{\prime} e i$

The restrictive particle $m$ ' $e i$ 'only' is placed after the focused element.

### 12.1.1.9.1. Meaning 'only'

The element under the scope of the restrictive focus particle is normally a NP as in (871) or an adjectival phrase (872).

| a. | Nada-ma ana-ni | nemu-ni-le |  |
| :--- | :--- | :--- | :--- |
| seven-ACC year-3SG | younger.sibling-3SG-CONT |  |  |
| sapuligi-tigi | m'ei-de | teu | ise-si-e-ni. |
| box-LAT | only-FOC | all | see-IM-PAST-3SG |

'For seven years her younger sister looked only at the box.' (K 118)
b. Dili-we m'ei uji-e-ni in'ei-di:. head-ACC only pour.PAST-3SG dog-DAT.REF 'She poured (soup) for her dog, only from the (fish) heads.'
c. Gäma m'ei ede:-i. bone only become.PAST-2SG 'Only your bones are left.'

| d. | Bi zube | k'olo-wo |
| :--- | :--- | :--- |
| me two | mitten-ACC |  |
| $e:-n i$ | m'ei-de. |  |
| side-3SG | only-FOC |  |

'I found two mittens only for the left hand.'
(872)
$\begin{array}{llll}\text { a. } & \text { Teti-gi-si-e-ni } & \begin{array}{l}\text { imexi-we } \\ \text { dress-REP-IM-PAST-3SG } \\ \text { new-ACC }\end{array} & \begin{array}{l}\text { mei } \\ \text { only }\end{array}\end{array}$ teti-g-isi-e-ni. dress-REP-IM-PAST-3SG
'She dressed, she put on only new (clothes)'. (K 169)
b. Magazina-la
shop-LOC
da:mpi xelebe
m'ei bi-s'e.
old bread only be-PERF
'There was only old bread in the shop.'

### 12.1.1.9.2. Meaning 'all'

The particle m'ei may indicate that a certain predication holds over the entire set of available objects. Therefore the participant that corresponds to this set is represented by the NP, which is plural either formally or semantically, as in (873) below. The particle then takes scope over the predicate (normally, an adjective) and is placed after it. Its meaning in these cases is close to that of the universal quantifier 'all', or can be rendered as 'exclusively, solely'.
a. Moxo tegbeni m'ei.
cup
'The cups are all dirty (are only dirty).'
b. Bi kusige-i ic'a- $\boldsymbol{\eta} k u \quad m^{\prime} e i$.
me knife-1SG small-PL only
'My knives are only small (are all small).'
c. Kerku m'ei seutigi.
empty only nut
'All nuts are empty.' (K 137)
d. Nua-ti uligdiga-yku m'ei.
he-3PL beautiful-PL only
'They all are beautiful.'
When the particle m'ei meaning 'all' takes scope not over the whole NP but only over its modifier, there are two options for its position: it can follow this modifier as in (874a), or stand after the whole NP as in (874b).
a. Ei bi m'ei kusige-i. this me only knife-1SG 'These knives are mine alone (all of them are mine).'
b. Ei bi in'ei m'ei. this me dog.1SG only 'These dogs are mine alone.'

### 12.1.1.9.3. Plural meaning

The particle m'ei is used with particular regularity after adjectives that are unable to take the morphological Plural affix - $\eta k u$ (6.1.2.1), as well as with certain other determiners that do not take morphological Plural markers (cf. the

Resultative Participle in (877)). In such cases it seems to be the only available means to encode the grammatical meaning of plurality.

| a.Nua-ti ugda-xi m'ei. <br> he-3PL boat-ADJ  <br> 'All of them have boats.'  | only |
| :--- | :--- | :--- |
|  |  |

b. Nua-ni unäpti-ni aisi-ma m'ei. he-3SG ring-3SG gold-ADJ only 'Her rings are golden.'

Ei we: kei-kei
$b i$ :
this hill steep-steep
be.PPR m'ei.
'These hills are steep.'
Tu: zugdi kimpi-ktu m'ei.
all house close-RES only
'All the houses are closed.'
With regular adjectives the particle m'ei can replace the Plural marker -ŋku (878a), but can also co-occur with it (878b).
a. Mo: sagdi m'ei.
tree big only
'The trees are big.'
b. Bi moxo-i ic'a-ŋku m'ei. me cup-1SG small-PL only
'I only have small cups.'

### 12.1.1.9.4. Meaning 'exclusively'

When the particle m'ei takes scope over the predicate, it may be given an approximate translation of 'exclusively, nothing except, nothing other than, pure', cf.:

| a. | Bi Šarika-ni: | xukti:-ni | m'ei, | wakca-ini |
| :--- | :--- | :--- | :--- | :--- |
| me Sharik-AL.1SG | run-3SG | only | hunt-3SG |  | m'ei. only 'My Sharik does nothing other than running and hunting.'



### 12.1.1.9.5. Degree adverb function, 'completely'

The restrictive particle m'ei may have the adverbial force and express that the feature exists to a high degree ('very'). In such cases it co-occurs with an adjective or a qualificative noun.


### 12.1.1.10. Restrictive particle sene

The particle sene is used in a far more restricted set of syntactic environments, namely, in a NP.

### 12.1.1.10.1. Meaning 'only'

Basically the meaning of sene seems to be identical or close to that of the particle $m$ 'ei 'only'. However, it cannot take scope over the predicate as does m'ei (12.1.1.9.4).

| a. | $O-d u$ this-DAT |  |  | ñoni: can.2SC |  | jexe-mi. sing-INF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 'Only you can sing here.' |  |  |  |  |  |
| b. | Min-du me-DAT | $\begin{aligned} & \text { da:m } \\ & \text { old } \end{aligned}$ |  | kusige knife | sene only | bie. <br> be.PRES.HAB |
|  | 'I only hav | an | ife.' |  |  |  |

### 12.1.1.10.2. Meaning 'except for'

When co-occurring with negation, this particle means 'except for', as illustrated in (882).

| a. | Min-e-we | ni-de | e-si-ti |
| :--- | :--- | :--- | :--- |
| me-0-ACC | who-IND | NEG-PAST-3PL |  |
| tagda-gi | bi | od'o-i |  |
| recognize-REP me | grandfather-1SG | uti |  |
| sene that | tagda-gi-e-ni |  | min-e-we. |
| only recognize-REP-PAST-3SG | me-0-ACC |  |  |

b. Bi j'e-we-de
me what-ACC-IND $e$-si-mi zikte-we blueberry-ACC
sene
NEG-PAST-1SG
diga
diga:-mi.
'I did not eat anything except for blueberries.'
c. Ni-de zugdi-du anči Iwana sene
who-IND house-DAT no Ivan only
$b i$ :-ni.
be-3SG
'There is nobody at home except for Ivan.'

### 12.1.1.11. Rare focus particles

In this section we present examples for certain focus particles which occur rarely. It is difficult to generalize about their meaning, so no attempt is made to describe it. For more (focus) particles in the Northern dialect see Sunik (1968: 228), Kormušin (1998), Simonov and Kjalundzjuga (1998-1999), and Simonov, Kjalundjuga and Xasanova (1998).

### 12.1.1.11.1. The particle $-k A$

The particle $-k A$ normally functions as a word-forming element deriving Indefinite pronouns with a specific interpretation (9.6.1). Occasionally it is found in a contrastive focus function as well.

| a. | Bi-ke | e-zene-i |
| :--- | :--- | :--- |$\quad$| menze. |
| :--- |
| de-CONT |
|  |
|  |
|  |
|  |
| 'And I won't do housekeeping.' (K 105) |

$\left.\begin{array}{l}\text { b. Di: osi-gi-e-ni-ke. } \\ \text { four } \quad \text { become-REP-PAST-3SG-CONT }\end{array}\right] \begin{array}{ll}\text { 'Four (of them) remained.' (K 187) } & \\ \text { c. Ute düixi-ni } \quad \tilde{n} u x a:-n i & \text { bi-s'e-ke } \\ \text { this inside-3SG climb.PAST-3SG } & \text { be-PERF-FOC } \\ \text { nö:-ni-gdeli. } & \\ \text { sable-3SG-FOC } \\ \text { 'The sable must have climbed inside.' }\end{array}$

### 12.1.1.11.2. The particles $-s A, c^{\prime} e i$, $-g A,-t A$

Different focus nuances are rendered by the particles -sA (884a), c'ei (884b), $g A$ (884c), and $-t A(885)$ in the examples below.
a. Timanaye-ni
$t e: g ' e \quad$ Zugdeme-se dig'a. tomorrow-3SG wake.up.PERF Zugdeme-FOC eat.PERF 'The next day Zugdeme woke up and ate.' (K 145)
b. Yegdige
gakpa:-ni
sul'ai-wa, hero shoot.PAST-3SG fox-ACC begdi-we-ni c'ei-de nagda:-ni. leg-ACC-3SG FOC-FOC get.into.PAST-3SG
'The hero shot at the fox and hit its leg.' (K 152)
c. Bi-ne kektene-i-ge bie j'e-we? me-CONT lie-PRP-FOC be.PRES.HAB what-ACC 'And what happens if I lie down?' (K 161)
a. Si min-du bu-je xaulie-te. you me-DAT give-IMP.2SG please-FOC 'Give (it) to me, please.'
b. Si ise-si-e omo uligdig'a-ta! you see-IM-IMP.2SG how beautiful-FOC 'Look how beautiful!'
c. Safani:, j'eu jexe-i mendele-te! boring what sing-PRP always-FOC 'I am tired of you singing all the time!'

Additionally, the particle $-t A$ seems to render the restrictive meaning (cf. the suffix of the Restrictive numerals - $t$ ' $A$ in 11.1.7).

| a.Nua-ni o-lo omo neni-ni-te <br> he-3SG this-LOC one day-3SG-FOC <br> 'He spent only one day here.'   |  |  |
| :--- | :--- | :--- | :--- | :--- |

b. Bi emne-te xuli-s'e-i xoton-tigi. me once-FOC go-EXP.PERF-1SG city-LAT 'I have traveled to the city only once.'

### 12.1.1.11.3. The particle bejeni

The particle bejeni goes back to the noun beje 'body' in the $3^{\text {rd }}$ person personal form (cf. also the personal pronoun bueni 'he, she', see 9.1). Its function seems to be to add an emphatic impact to an adjectival modifier. It is normally used in exclamations (887) or with the meaning 'very' (888).

| a. | Ge: $\quad$ bejeni ni: uti. |  |
| :--- | :--- | :--- |
| bad | FOC man that |  |
|  | 'What a bad person he is!' | $(\mathrm{K} \mathrm{112)}$ |


| b. | Aja | bejeni | $n i$ : | eme:-ni. |
| :---: | :---: | :---: | :---: | :---: |
|  | nice | FOC | man | come.PAST-3SG |
|  | 'What a nice person came!' (K 110) |  |  |  |

Kada due-le-ni sagdi bejeni due-le-ni
rock top-LOC-3SG large FOC top-LOC-3SG
nene:-ni.
go.PAST-3SG
'(He) went to the top of a very large rock.' (K 113)

### 12.1.1.11.4. Restrictive particles in expressions of time

The postpositional particles sila, s'ei, z'ei, tei and kei follow an adverb or a NP with the quantifier omo 'one', which refers to the period of time. The examples are not numerous, so it is difficult to make a definite judgment on their semantics. Yet it seems that sila, z'ei, tei and kei tend to mean 'whole', while $s$ 'ei normally has a restrictive meaning ('only').

| a. Omo dogbo sila e-si-ni | nua-gi. |  |
| :--- | :--- | :--- |
| one | night whole NEG-PAST-3SG | nua-ep-REP |
| 'He didn't sleep the whole night.' |  |  |

$\begin{array}{lll}\text { b. Ineni } & \text { kei } & \text { gusi:. } \\ \text { day } & \text { whole } & \text { play.PRP }\end{array}$
'He is playing the whole day.'

| c.Omo sikie-ni <br> one <br> nele-we-si.: | z'ei |
| :--- | :--- | :--- | :--- |
| be.afraid-CAUS-IM.2SG |  |
| 'You frighten us the whole evening.' (K 158) |  |

J'eu-j'eu wo-jo omo dogbo s'ei.
what-what do-IMP.2SG one night only
'Do everything within only one night.'
12.1.1.11.5. The particle $z$ 'e 'as soon as'

Examples:

| a. | Z'e $\quad$ ugda-wa $\quad$ juyda-wan-a-isi-ni |
| :--- | :--- | :--- |
| soon | boat-ACC speed.up-CAUS-0-PC-3SG |
| ejekte $\quad$ ekti amäixi tanda-gi:-ni. |  |
| flow $\quad$ quick back carry-REP-3SG |  |


| b. | Z'e wokti-we | nientile:-ni | jegdige |
| :--- | :--- | :--- | :--- |
| soon door-ACC | open.PAST-3SG | hero |  |
| gida-la:-ni | mafa-wa. |  |  |
|  | spear-V.PAST-3SG | bear-ACC |  |

'As soon as (she) opened the door, the hero stabbed the bear with the spear.' (K 129)

| d. | Z'e | uta-la | i:n-e-isi-ni | nada-ni |
| :--- | :--- | :--- | :--- | :--- |
| soon | that-LOC | come-0-PC-3SG | seven-3SG |  |
| zimali | kil'ai ze | zomo-si--ti. |  |  |
|  | seagull | gull just | steal-IM-3PL |  |

'As soon as he came there, seven seagulls were just stealing (it).'
(K 179)

### 12.1.2. Discourse particles

The independent discourse particles include the evidential (12.1.2.1) and epistemic (12.1.2.2) particles, as well as the particles that express different nuances of the organization of the text (12.1.2.3) and the communication between the speaker and the addressee (12.1.2.4). Evidential and modal epistemic particles are normally (though not necessarily) placed at the very end of the sentence after the final verb, while most other discourse particles occur sentence-initially.

### 12.1.2.1. Evidential

The main common function of evidential particles is to indicate an indirect source of information as a ground for the assertion. What is meant by an indirect source of information, however, may vary. These particles are glossed as EV.

### 12.1.2.1.1. Hearsay evidential

The most typical evidential particles are gune, gunei, guykini, and gum(u). These three particles are clearly etymologically related to the verb of speech gun- 'say, tell'. The words gun-e and gun-e-i seem to represent the Habitual forms (with and without the Present Participle suffix -i). Gum-u may be an old Passive form, in which the stem-final $/ \mathrm{n} /$ was assimilated to $/ \mathrm{m} /$ before a round vowel. Such a sound change is mentioned in Schneider (1936), see also 8.2.1.5. Guy-ki-ni literally means 'he said' <say-PAST-3SG>. These forms seem to have lost their original meaning, and function simply as evidential particles. They are basically synonymous and indicate that the information about the corresponding event is obtained "second-hand", so they can be characterized as hearsay evidentials. Prototypically, the information about the event is obtained from another person when this person actually says it, as exemplified in (892).

$$
\begin{array}{lcc}
\text { Da:-la } & \text { gum }(u)-d e & \text { ana- } \quad \text { i-ze-i. }  \tag{892}\\
\text { close-LOC } & \text { EV-FOC } & \text { night.shelter-V-SUBJ-2SG } \\
\text { '(She says:) stay nearby for a night.' (K 113) }
\end{array}
$$

This case is analyzed in section 18.4 on direct speech and in section 18.3.1.3 on the finite complement clause governed by verbs of saying. Although not required by the grammar, the hearsay evidential particles are particularly common within the subordinate finite complement clause when the matrix verb is a verb of perception or saying. In the finite subordinate clause introduced with the verb of thinking muisi- 'think' the evidential particle gune is strictly obligatory (18.3.1.2).

### 12.1.2.1.2. Visual evidential

The same particles gune, gunei, gunkini, and also gum(u) are used if the information expresses somebody else's sensory perception, normally seeing. For example in (893a) below the particle indicates that the situation 'there is something black' is perceived not by the speaker but by the character of the text introduced in the previous sentence ('he'). The situation of 'seeing', however, does not have to be overtly expressed in the context.

| a. | Ei nene:-ni. | Te: | unakta |  |
| :--- | :--- | :--- | :--- | :--- |
| this go.PAST-3SG | well | river.stretch |  |  |
|  | due-le-ni | p'aga | bie | gune. |
|  | end-LOC-3SG | black | be.PRES.HAB | EV |

'So he went. Well, at the end of the stretch of the river something black is seen.' (K 111)
b. Akandi ilaktay-ka gune. Akandi appear-PERF EV '(He sees) Akandi has appeared.' (K 121)

$t a:-n i \quad g u n e$.
caught.PAST-3SG EV
'He went (and saw that) one (fish) was caught on his hook.' (K 29)
The information obtained through hearing can also be encoded with the evidential particles, although this case is less regular, and the direct statement can often be found in this situation (see the examples in section 18.3).

### 12.1.2.1.3. Mirative evidential

Mirative evidentials basically indicate that the speaker did not expect event described in the clause. They are often used in the context of coming to a new place, discovering something unexpected, entering a house, etc. Such particles correspond to the English evidential expressions 'it turns out that', 'apparently', 'it appears', and so on. In Udihe the mirative evidentials are bese and bubu (bebe, bube), often combined with the focus clitic -te (bese-te, bebe-te, bubu-te), cf.:
a. Uti
zueze bie
that table be.PRES.HAB

## bubu.

EV
'Here is the table (unexpectedly).'
b. Nua-ni emegi-e-ni $\quad$ bu
he-3SG come-PAST-3SG EV
'It turns out that he has already come.'
c. $\begin{aligned} & \text { Exe-le } \begin{array}{l}\text { amba } \\ \text { sister-CONT evil.sp }\end{array} \text { an }\end{aligned}$ bubu.
sister-CONT evil.spirit EV
'It turns out that his sister is an evil spirit.' (K 130).
d. Aziga eme-ini bebe-te.
girl come-3SG EV-FOC
'It looks like the girl is coming.'
e. Bi cawa-i muj'ei bubu-te.
me cup-1SG whole EV-FOC
'It turns out that my cup is not broken!'
The mirative evidential particle and the hearsay evidential particle can co-occur within one sentence, as shown in (895).

| a. Sana cul(i) | si:nde-ixi-ni zune-ti | belie |
| :--- | :--- | :--- | :--- |
| hole through | look-PC-3SG two-3PL | girl | $b i$ :-ti gunei bebu. be-3PL EV EV

'He is looking through the hole: the two, having become girls, are drying (his) boots.' (K 109)
b. nene:-ni nada-zi
go.PAST-3SG seven-INST all-all
maga:-ti gune bube.
kill.PAST-3PL EV EV
'She went (and saw that) all seven (of them) were killed.' (K 177)

### 12.1.2.1.4. Position of the evidential particles

The examples cited in this section show the sentence-final position of the evidential particles. In (896) it is placed sentence-internally, which is a much less common option.
a. $\tilde{N} a \quad$ xokono-li-ge gune uti omo.
also moan-INC-PERF EV that one
'That one also started moaning.' (K 187)
b. Nada-ti namu-la ji:n-e-isi-ni
seven-ORD sea-LOC enter-0-PC-3SG
käi xo:n-dile-ni bie gunei zugdi-ti.
hill top-LOC-3SG be.PRES.HAB EV house-3PL
'He entered the seventh sea and their house appeared on the top of the hill.' (K 181)

In the Northern dialect the evidential particle gune introduces a non-finite complement clause in the Accusative (see 20.2.2.6).

### 12.1.2.2. Epistemic particles

Some evidential particles can be used in the epistemic function, which seems to show that there is no strict border between these two categories. However, some epistemics have a specialized meaning which deviate from the evidential meaning as associated with evidential particles. Epistemic particles in a strict sense do not indicate an indirect source of information, as evidentials do, but rather the degree of the speaker's knowledge and belief about the event. Although the lack of the speaker's commitment to the truth of the proposition may be conditioned by the indirect source of information, this is not invariably the case. The most important epistemic particles in Udihe are saina 'perhaps' (12.1.2.2.2), bize 'must' (12.1.2.2.1), and j'aza 'of course' (12.1.2.2.3). The particle bize is strictly sentence-final; the other two particles are located fairly freely in the sentence.

### 12.1.2.2.1. The particle bize 'must'

The particle bize goes back to the Subjunctive $3^{\text {rd }}$ person form of the verb bi'be'. It expresses a fairly high degree of commitment to the truth of the proposition on the part of the speaker and will be translated and glossed as 'must', cf.:

| a. | Ei gegbenku guači <br> this berry$\quad$ bize. |  |
| :--- | :--- | :--- | :--- |
|  | bitter | must |

The examples in (898) below show that the use of the epistemic particle bize is often motivated by the fact that the speaker makes a logical inference on the grounds of a certain piece of evidence. Thus, in (898b) the fact that the tea is hot must have led the speaker to the conclusion that somebody had come and made it hot. Therefore the meaning of the particle bize is here practically indistinguishable from the inferential evidential meaning.
a. Bi begdi: eineri ketu aja, ele asigi-mi bize. me leg.1SG today very nice soon recover-1SG must 'My leg is well today, I must recover soon.' (K 154)
b. C'aja xekui ni-ke $\quad$ xuli-se:-ni $\quad$ bize.
tea $\quad$ hot who-IND $\begin{aligned} & \text { come-EXP.PAST-3SG EV }\end{aligned}$
'The tea is hot, somebody must have come.'

### 12.1.2.2.2. The particle saina 'perhaps'

The particle saina 'perhaps' is apparently etymologically related to the verbal stem sa:- 'know' augmented with the archaic converbial suffix -na, see 7.5.2.3.3. It expresses a low degree of the commitment to the truth from the speaker, and does not make any reference to the grounds for the assertion. This particle is normally sentence-initial and co-occurs with the verb in the Subjunctive (899a).

a. \begin{tabular}{l}

Saina nua-ni $\quad$| timana-ni |
| :--- |
| perhaps |
| eme-gi-ze. | <br>

he-3SG <br>
come-REP-SUBJ
\end{tabular}

'Perhaps he will come tomorrow.'
b. Min-du omo-to zä: sene me-DAT one-REST money only bu-o:-ni. Saina zä:-ŋi-le
give-PAST-3SG perhaps money-AL-PART $a n c ̌ i \quad b i:-n i$.
no be-3SG
'He gave me only one ruble. Perhaps he didn't have the money.'
12.1.2.2.3. The particle jaza(-ta) 'of course'

The particle jaza 'of course' goes back to the Subjunctive form of the interrogative proverb $j a$ - (9.3.4) and expresses confirmation. It is often combined with the focus clitic -ta.
(900) a. Uti wayba-yi-ni tagda-i jaza-ta. that tortoise-AL-3SG get.angry-PRP of.course-FOC
'Of course the tortoise was angry.'
b. Timana ña gulin'e jaza. morning again go.PERF of.course 'Of course in the morning he set out again.'

### 12.1.2.2.4. Mirative particles with an epistemic meaning

The mirative particles (12.1.2.1.3) may be used when the speaker is generally aware of the situation, while expressing some doubt. So here the meaning shifts into the purely modal sphere. The closest English equivalent would be 'apparently' or a tag question.


### 12.1.2.3. Discourse-linking particles

Discourse-linking particles express different strategies of the organization of the text by the speaker; that is, they serve speaker-text interaction.

### 12.1.2.3.1. The conclusive particles 'well, so'

There is a group of particles that indicate a certain conclusion or a period in the text, and these can be approximately translated as 'well' or 'so': te (902a), ta: (902b), and ke (839c). These particles are most typical of the Northern dialect and are normally sentence-initial.

| a. | Te jegdige $\quad$ meisi-e-ni. |
| :--- | :--- | :--- |
| so hero | think-PAST-3SG |
| 'So the hero thought.' (K 168) |  |

b. Ta: tagi-le i:y-ki-ni.
well middle-LOC enter-PAST-3SG
'Well, he reached its middle.' (K 187)
c. Ke beliente wa-gi-li-e-ni.
well fairy kill-REP-INC-PAST-3SG.
'Well, the fairy came to life again.' (K 189)
Another sentence-initial particle ge 'well' is extremely frequent in both dialects. In the Southem dialect the sentence-final particle eitene 'now' (from $e i$ 'this' and tene Contrastive focus) is also used.

| a. | Ge timana | eme:-ni | oloxi. |
| :--- | :--- | :--- | :--- | :--- |
| well tomorrow come.PAST-3SG | squirrel |  |  |
|  | 'Well, next day the squirrel came.' |  |  |

b. $G e$ well one old.man
bagdi-e-ni eitene. 'Well, now one old man lived.'
12.1.2.3.2. The conclusive particle daydile 'that is why, so'

The particle daydile has the resultative meaning and can approximately be translated as 'that is why, so, therefore' (Russian to to), although Simonov translates is as 'surprisingly'. Normally it introduces an event witnessed by the speaker, cf.:

a. | nala-i |
| :--- |
| hand-REF bukta-li-e-ni |
| break-INC-PAST-3SG so |
| 'He broke his hand, that is why he is crying.' |

b. Eme-gi-e-ti wakca-na: getu dandile
come-REP-PAST-3PL hunt-DIR.PP PL so
ule: olokto-si-du-ge.
meat cook-IM-PL-PERF
'The hunters have come back, that is why (I can see that) they have cooked meat.'

### 12.1.2.4. Addressee-oriented particles

Several particles directly express different aspects of the communication between the speaker and the addressee of the corresponding utterance.

### 12.1.2.4.1. The particle $m$ 'a 'here it is'

The particle $m$ 'a 'here it is (take it), here you are' (cf. Russian $n a$ ) is used when showing or offering something (905) or when describing a situation and
making an emphatic address to the addressee (906). Occasionally, it may be used in exclamations with the meaning 'what a' (907).
(905)
a. M'a uniza.
here spoon
'Here is the spoon (take it).'
b. M'a, Puza!
here Puza (name of the fire spirit)
'Here it is, Puza!' (an address to the fire spirit when feeding it).
c. M'a ini-zi ini-zi.
here tongue-INST tongue-INST
'Here it is, (try with your) tongue.' ( K 105)
(906) M'a yele-li-e-ni.
here get.afraid-INC-PAST-3SG
'Here it is, he got frightened.' (K 182)
(907) M'a paki a:nta bi:-ni bube-nu.
here skilful woman be-3SG EV-FOC
'What a skilful woman she turns out to be!' (K 182)

### 12.1.2.4.2. The hortative particles

The hortative clitic $-z A$ regularly accompanies the permissive verb (see the examples in 7.8.5) and is also compatible with the imperative verb, as illustrated in (908). Used in an independent way (not as a clitic) it can be translated as 'come on' (909).
a. Unta-i aikta, uke-tigi
boot-2SG take.off door-LAT
wende-ze.
throw.IMP.2SG-HORT
'Take off your boots and throw them to the door.' (K 109)
b. Aja, gazi-ze, gulini-u-ze.
good take-HORT go-IMP.2PL-HORT
'OK, take (her) and go (the two of you).' (K 159)
(909)

| Ganzipa clean |  | seudine-we | soktu-te-i-ze |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | kerchief-ACC | spread-PERM-2SG- | HORT |
| uta | mui | $z e$ | gun-te-i-ze. |  |
| that h | horse ${ }^{\text {' }}$ | HORT | say-PERM-2SG-HORT |  |
| 'Spread a clean kerchief, then say: Horse, come on!' |  |  |  |  |

The rare hortative particle $-g A$ is illustrated below.
a. Olono-tigi yene-ze-fi-ge. Olon-LAT go-SUBJ-1PL.IN-HORT 'Let us go to Olon.'
b. Olokto-zo-m(i)-ge ule:-we. cook-SUBJ-1SG-HORT meat-ACC
'Let me cook the meat.'

### 12.2. Extra-clausal elements

### 12.2.1. Addresses

Addresses naturally often co-occur with the Imperative verbs. On the Imperative clause see 15.1.2.

### 12.2.1.1. Nominative

A neutral address in Udihe is based on the Nominative form. The address word stands either at the beginning of the clause (911), in the middle of the clause (912), where it can be even inserted within a constituent (912b) or - more seldom - at the very end of it (913).
a. Čo gos'o, eme:-i j'eu. Chon uncle come.PAST-2SG what 'Uncle Chon, did you come!' (K 130)
$\begin{array}{llll}\text { b. G'ai } & a g^{\prime} a, & \text { eme:-i } & \text { j'eu? } \\ \text { raven } & \text { brother } & \text { come.PAST-2SG } & \text { what }\end{array}$
'Brother raven, did you come?' (K 132)
c. A: zeli alasi-nde. INTER bulltrout wait-SEM
'A, bulltrout, wait a little!'
d. Aziga-ziga eme-je-u.
girl-PL come-IMP-2PL
'Girls, come!'
(912)

b. Ketu
ag'a, aja gakpa-i. very brother good shoot-2SG 'Brother, you shoot very well.' (K 152)
c. Bu, emende,
go:-tigi
уепе-и. we witch
long-LAT
go-1PL.EX 'Witch, we are going a long way.' (K 171)
(913) Tinda-gi-je min-e-we aja ni.: et-REP-IMP.2SG me-0-ACC good man 'Let me go, nice man.'

### 12.2.1.2. Expressive lengthening

In an expressive address, especially when calling from a long distance, the word-final vowel exhibits a non-phonemic lengthening. An additional $e$ sound is pronounced with a raising intonation. For example, in one tale the address to a fox (sul'ai) is sul'aj-e, cf. also:

Kurk'ai cedar.thicket tukca-na-ni-e-e, sakt'ai
tukca-na-ni-e-e.
hare-PL-3SG
'Hares from the cedar thicket, hares from the willow thicket!'

### 12.2.1.3. Vocative

Apart from the Nominative used in addresses, the Udihe also possesses a special Vocative form. It is always pronounced at a higher pitch with respect to other elements of the same clause. Formally, the Vocative has much in common with the $1^{\text {st }}$ person Singular Possessive derived with the suffix $-i$ (6.1.4.1). In the Vocative form the vowel $/ i /$ follows the vowels $/ e /$, $/ a /$, $/ o /$, $/ u /$ in a regular way, so for the stems that end in these vowels the Vocative coincides with the $1^{\text {st }}$ person Singular possessive form. The relation of the Vocative with the $1^{\text {st }}$ person Singular Possessive is clearly seen from the fact that the Vocative is easily compatible with the $1^{\text {st }}$ person possessor: bi gagda-i 'spouse' (literally 'my spouse'). Besides, class II nouns have the mie-final Vocative form, which again may go back to their $1^{\text {st }}$ person Singular affix -mi (4.1.4.1.1): sita-mie 'child' (literally: 'my child').

However, for the $i$-final nouns, the Vocative form differs from the $1^{\text {st }}$ person Singular Possessive: the possessive forms end in a long li/, due to vowel contraction, while in the Vocative the stem-final vowel /i/ changes into a
diphthongoid /iel, so the word ends in -iei. After a consonant the Vocative ends in $-A i$, cf.:
(915) Susan
k'äsa
mamaka
baja mafa
boxos'o
zoŋkus'o

Susan-a-i
k'äsa-i
mamaka-i
baja mafa-i
boxos'o-i
zonkus'o-i
'Susan (a proper name)'
'eagle'
'old woman'
'rich old man'
'humpback'
'poor man'

The Vocative is the normal form of address to relatives; in this case the use of the Nominative is rare. The following are the forms of address used for the most important kinship terms. Note that a few of them have two suppletive stems: one is found in the function of address (either in the Vocative or in the Nominative), while another is used in the declension (4.1.1.2.3).
mamasa
mafa
xunazi
od'o
omölo
mama
gagda

See the examples.

| a. | Min-e-we$\quad$belesi-je <br> me-0-ACC | xunazi-ei. |
| :--- | :--- | :--- | :--- | :--- |
|  | help-IMP.2SG | sister-VOC |

### 12.2.1.4. Euphemistic address

When addressing relatives it is very common to treat them from the point of view of another person, normally a younger relative, a child, or a younger sibling. Thus a husband can address his wife as the mother of his children (of the first child), and vice versa, for example, Isimi ene (or: Isimi eni-ni) literally 'mother of Isimi' (K 129), Edika ami-ni literally 'the father of Edik', cf. also:

$$
\begin{array}{lccl}
\text { Ami-ti! } & \text { Sita-ni } & \text { tege-we } & \text { gele-li-e-ni. }  \tag{918}\\
\text { father-3PL } & \text { son-3SG } & \text { gown-ACC } & \text { ask-INC-PAST-3SG } \\
\text { 'Husband! (Our) son is asking for a gown.' } &
\end{array}
$$

Compare also the address to parents-in-law as grandparents (of your own children) mentioned in 12.2.1.3, the address to one's own mother literally as 'their mother' (enei-ti 'their mother'), apparently taking the position of the siblings, the address to one's own wife as mamasa-ti literally 'their wife', and to one's own sibling as nequ-ti 'their younger brother or sister'. Finally, a daughter-in-law (the youngest son's wife) can be addressed as omölo-tie literally 'their granddaughter' or neyu-ti mamasa-ni literally 'the wife of their younger brother'.

### 12.2.1.5. Affectionate address

In folklore tales and songs the word bajani or its expressive variant baja-nie (< baja-ni <dear-3SG>) can be used after the address itself. It goes back to the adjective baja 'rich', augmented with the $3^{\text {rd }}$ person Singular possessive suffix $-n i$. This word is approximately translated as '(my) dear'.

12.2.2. Routine formulaic expressions

By "routine formulaic expressions" we mean standard formulae used for conversational interaction. They are presented below with approximate translations.

```
(920) dogdi
sagdi asasa
solodi
xaulie
b'agdifi
aja
asasa
ge(le)
si asasa
banäxe, banixe
inke
ceze
äga
nä
e:,e
aja bimo:
aja yenemo:
```

'listen' (only to a spouse)
'thanks a lot'
'hello' (on Samarga)
'please'
'hello'
'OK, well, please'
'thanks'
'hey, hello'
'thank YOU'
'thank you'
'yes, right, OK'
'yes, right'
'well, OK'
'I don't know' (in an answer)
'yes, well, so'
'good bye (to somebody who remains)'
'good bye (to somebody who leaves)'

In the general meaning 'no' the negative copula anči can be used. However its usage is somewhat restricted, and it is more natural to use the corresponding form of the negative auxiliary verb instead (see 7.3.3.3). Some examples of the use of formulaic expressions are:
a. Gele zegdem guas'a. hey burnt bitch 'Hey, you burnt bitch!' (K 112)
b. Ge pauza-ziga sul'ai ketu uligdig'a hey roe-PL fox very beautiful tege-we b'a:-ni. gown-ACC find.PAST-3SG 'Hey, roes! The fox has found a very beautiful dress.' (K 161)
c. Ge, jegdige, inke, guy-ki-ni. well hero right say-PAST-3SG 'OK, this is right, the hero said.' (K 153)
d. Emus'e bagdi-hi-nu? alone live-2SG-CONT no sister mule bagdi-u. with live-1PL.EX
'Do you live alone? No, I live with my sister.' (K 156)

### 12.2.3. Interjections

Udihe is extremely rich in the ideophonic words that in some way characterize the action expressed by the verb. These words have an adverbial function and are internal to the clause. They are treated in Chapter10. In this section we will only cite interjections and onomatopoetic words that represent a direct "quotation" and function outside the clause. For more interjections and onomatopoetic words in the Northern dialect see Sunik (1968: 228-229), and text materials in Kormušin (1998) and Simonov, Kjalundzjuga and Xasanova (1998).

### 12.2.3.1. Interjections

Many interjections in use are borrowed from Russian. Native interjections are often based on the repetition of the same syllable. The following original interjections, which express various emotions and volitions, are found:
(922) aje: (with a high pitch at the end)
$a-t a-t a-t a, a-d a-d a-d a, e-d e-d e-d e(i)$
ge-ge-ge
sie
a-na-na
$s u ̈(h)$
baycai
ta-ta-ta
$x a-x a i$
jei
t'a
tui
saña(na)wo:ni
surprise, pity, admiration fear surprise, fear disappointment
pain
tiredness; driving away hens
joy when finding ginseng
driving on dogs
threatening, indignation
surprise
driving away dogs
'pah!'
'damn!’

### 12.2.3.2. Onomatopoetic words

The following are onomatopoetic words imitating sounds made by animals (923a) or other sounds (923b):

| a. | gabak |
| :---: | :---: |
|  | xai-gu-gu-gu |
|  | siñ-siñ |
|  | kor-kor, kärre-kärre a |
|  | ke-ku |
|  | хеи-хеи |
|  | kuptitiete-kuptitiete |

raven
hare
a little bird
crow
cuckoo, cf. keku-nde- 'cuckoo'
dog
turtledove

| todi-todi | a small bird |
| :--- | :--- |
| küi-küi-küi | a small bird |
| ko: $\eta$-ko: | raven |
| b. | pum-pum |
| tieun-tieun | shaman tambourine |
| ki-iñ | shaman tambourine |
| käk-cike | screaming of a baby |
|  | cracking noise |

Under (924) we list the traditional meaningless refrains used in folk songs.
(924) jawa-jawa
jewe-ju
zän-zän-zän
dele
ba-ba, baba-ju (cf. baba- 'rock to sleep')
beke-beke, beke-ju (cf. beke-gi- 'rock to sleep')

## Syntax

Udihe is a head-final SOV language. However, head-finality is not rigid. In some noun phrases, such as the possessive phrase, the head-final order is obligatory. Other noun phrases demonstrate a split in head properties: in certain constructions attributes may raise to the phrase-final position and receive some other head properties (24.2.1.1). Postpositional phrases and non-finite clauses are always head-final. In the matrix clause the word order is largely motivated by information structure. The most important requirement for word order at a clause level is the immediately preverbal position of the focus element (including the question words) (24.1.1).

Major grammatical relations, such as the subject, direct object, and indirect object, are rather easily identified by a cluster of grammatical properties (Chapter 15). In particular, the subject is a grammatical element associated with the highest syntactic activity and is the main controller of coreferential relations, both within the clause and clause-externally. The verb only agrees with the subject. A number of rules that change grammatical relations apply (Chapter16). The case marking patterns are uniformly based on the Accusative system with the following two exceptions. First, the direct object marked with the reflexive-possessive affix stands in the Nominative (22.3.2). Second, the single argument of certain constructions denoting state may be encoded by the Accusative noun phrase (17.2.2.5.2).

The subordinate clause mostly makes use of non-finite verbal forms, participles, converbs, and infinitives. Clause-chaining is organized around the switch-reference system, which opposes same-subject and different-subject relationships (22.5). They are morphologically encoded on the non-finite verbal forms employed in the subordinate clause. Relative clauses are formally patterned as attributive noun phrase (Chapter 19), complement clauses as possessive noun phrases with participles taking corresponding case and possessive affixes (Chapter 20).

## Chapter 13 <br> Noun phrase

A noun phrase consists of a head and an optional modifier. The following grammatical classes function as nominal heads: nouns and pro-nouns (personal pronouns, possessive pronouns, and indefinite pronouns, see Chapter 9). In headless noun phrases the head noun is omitted, while cardinal numerals, quantifiers, adjectives, pro-adjectives, and the relative clause undergo nominalization. These cases are not treated in this chapter (on the headless relative clause see section 19.5, and on the headless noun phrase see 22.2.3). Pro-nouns do not take a modifier, with the exception of the relative clause. Ordinary nouns may function as attributive forms only when there is a possessive relation between them and the head. Some exceptions are addressed in 13.7.

The following classes of modifiers are available: pro-nouns (that is, Personal pronouns), adjectives, pro-adjectives (Demonstrative and indefinite Pronouns), quantifiers, postpositional phrases, oblique-case noun phrases, and the relative clause. The relative clause is discussed in Chapter 19. Articles are missing, and definiteness may be expressed by means of $3^{\text {rd }}$ person possessive affixes (4.3.1.1). Head nominals cannot be modified by a simple adverbial. Adjectival modification may also be performed by the derivational affixes -ziga (5.1.1.1) and $-\eta A$ : (5.1.1.5).

The noun phrase is typically head-final. However, under certain information structure driven conditions the order within particular noun phrases is reversed: the modifier occupies the phrase-final position and is characterized by certain other head properties. This process will be referred to as "modifier raising" and is addressed in 24.2.1.1. As shown there, modifier raising is observed in the situation when the modifier and the head noun bear different information structure statuses. In this chapter we will only focus on noun phrases that are "neutral" (not partitioned) from the point of view of information structure, and that correspondingly do not demonstrate modifier raising. Yet, even in this case, head-finality is not rigid. Certain classes of modifiers - the postpositional phrase, the oblique-case noun phrase, and certain appositions - are always postnominal, independent of any information structure considerations, so head-finality is violated. Other modifiers (numerals and some other quantifiers) may be prenominal and postnominal without being raised. The word order within noun phrases with each individual modifier is discussed in the
corresponding sections, while section 13.10 focuses on word order within a noun phrase with several modifiers.

The syntactic relationship between the head and the modifier is encoded morphologically only in certain types of noun phrase: the possessive noun phrase (13.1) and the phrase where the modifier corresponds to the indefinite pronoun (9.6). Otherwise the modifier is merely juxtaposed to the head noun. The only lexical material that may be inserted between the head and the modifier are focus particles, cf.:

| (925)Sita-i <br> child-REF$\quad$ tene bugdi-le-ni | su:ne:- . |  |
| :--- | :--- | :--- | :--- |
|  | CONT leg-LOC-3SG | string.PAST-EXPR |

On discontinuous noun phrases see 24.2.1.2.
Attributive agreement in case is absent with the notable exception of some quantifiers (13.3.4), some types of appositions (13.8.2), and relative clauses (see Chapter 19). Attributive agreement in number is obligatory only when the head nominal is morphologically marked for plurality (13.2.2). In the "neutral" noun phrase discussed here the external syntactic role of the noun phrase is encoded by (case) markers on the head noun, for other cases see 24.2.1.1.

Below the noun phrases are presented according to the modifier types. For apposition see 13.9.

For the adjective phrase see 6.3, for the adverbial phrase see 10.1.7, and for the postpositional phrase see 10.2.3.

### 13.1. Possessive noun phrase

The most important formal characteristic of the possessive noun phrase is that the relationship between the modifier (the possessor) and the head (the possessed noun) is encoded by possessive affixes on the head. The only type of possessive noun phrase where the possessive affixes on the head noun are missing are reciprocal possessives (22.4.1.2).

As distinct from most other noun phrases, the possessive noun phrase has a fixed word order "modifier - head"; that is, it does not undergo inversion because of information structure.

Noun phrases in which the modifier corresponds to the interrogative pronouns (pro-nouns) $j$ 'eu 'what' or ni 'who' or the indefinite pronouns $j$ 'eu-ke 'something' and ni-ke 'somebody' are structurally organized in the same way as the possessive noun phrase with a nominal modifier (see 9.5.1.1).

### 13.1.1. Pronominal possessive modifier

The structure of the possessive (including Destinative) noun phrase with the pronominal modifier is as follows:
(926) (Personal pronoun in the Nominative/Reflexive pronoun men-e) - head noun + (Alienable Possessive affix) + (case affix that encodes its syntactic role) + Possessive/Reflexive affix that cross-references the Personal pronoun

Examples:

| (bi) anda-i | 'my friend' <me friend-1SG> |
| :--- | :--- |
| (nua-ni) anda-ni | 'his friend' <he-3SG friend-3SG> |
| (nua-ni) ja:-ni-ni | 'his cow' <he-3SG cow-AL-3SG)' |
| (men-e) k'olo-i | 'one's mittens' <REF-0 mitten-REF>. |
| (nua-ni) zugdi-du-ni | 'in his house' <he-3SG house-DAT-3SG> |
| (su) gegbenku-zi-u | 'with your berries' <you berry-INST-2PL> |
| (bi) kusige-ne-i | 'a knife for me' <me knife-DEST-1SG> |
| (men-e) 'ana-na-mi | 'a boat for oneself' <REF-0 boat-DEST-REF> |

On Personal pronouns see 9.1, on Possessive affixes see 4.1.4.
The pronominal modifier can be omitted under coreference, but is recoverable from the context or the communicative situation (928). As was discussed in 4.1.3.3, the $3^{\text {rd }}$ person personal affix -ni can encode (situational) definiteness. In this case the position of the possessor remains unfilled; for example, (929) refers to sleeves of a dress, which in this case are definite.

| a. In'ei ikteme-ne:-ni | pauza, | na:-wa-ni |
| :--- | :--- | :--- |
| dog $\quad$ bite-DIR.PAST-3SG | roe | skin-ACC-3SG |
| sie:-ni, | ule:-we-ni | pahintua:-ni, |
| skin.PAST-3SG flesh-ACC-3SG | eat.round.PAST-3SG |  |
| dili-we-ni | onmo:-ni. |  |
| head-ACC-3SG forget.PAST-3SG |  |  |
| 'Dogs have bitten the roe to death: they have skinned it and eaten |  |  |
| (its) flesh, but they have forgotten (its) head.' (K 138) |  |  |

b. Uga-i-de anči.
voice-1SG-FOC no
'I don't have a voice.'
$\begin{array}{llll}\text { c. } & \text { Koko } & \text { dili: } & \text { ugi-wen-e-ini. } \\ \text { Koko } & \text { head.REF } & \text { move-CAUS-0-3SG }\end{array}$
'Koko turns his head.'

$$
\begin{array}{ll}
\text { Uke:-we-ni } & \text { likpa-gi-je! }  \tag{929}\\
\text { sleeve-ACC-3SG } & \text { roll.up-REP-IMP.2SG } \\
\text { 'Roll up your sleeves!’ }
\end{array}
$$

### 13.1.2. Nominal possessive modifier

The structure of the possessive noun phrase with the nominal modifier is as follows:
(930) possessor noun in the Nominative - head noun + (Alienable Possessive affix) + (case affix that encodes its syntactic role) + Possessive/Reflexive affix that cross-references the possessor

Examples are:
tenku bugdi-ni aziga-ziga zugdi-ti in'ei ule:-ne-ni
'a leg of the stool' <stool leg-3SG> 'the house of the girls' <girl-PL house-3PL> 'meat for the dog' <dog meat-DEST-3SG>

As shown in 4.2.3, the relationship between the possessor and the possessed noun is not necessarily possessive but comprises different semantic types (gender, part-whole, quality, naming, etc.). When integrated in a sentence the head noun takes case markers which show its external syntactic role.

| a. | Bu Susana | zugdi-we-ni | ise:-mu. |
| :--- | :--- | :--- | :--- |
| we Susan | house-ACC-3SG | see.PAST-1PL.EX |  | 'We have seen Susan's house.'

b. Bi suese xei-we-ni me axe handle-ACC-3SG 'I broke the handle of the axe.'
c. Beliente nala-la-ni fairy hand-LOC-3SG tandana-gi-e-ni. pull-REP-PAST-3SG
'He took the fairy's hand and pulled it again.' (K 189)
The chain possessive construction involving multiple possessors arises when the possessor in its turn is modified by another possessive modifier (a noun or a personal pronoun). The maximal "depth" is three levels, while longer chains are typically avoided.

| (933) | $b i$ | sita-i | anda-ni friend-3SG |  |
| :---: | :---: | :---: | :---: | :---: |
|  | [me | child-1SG] |  |  |
|  | 'a friend of my son' |  |  |  |
|  | songo | nä:-ni | ingakta-ni |  |
|  | [bear | skin-3SG] | hair-3SG |  |
|  | 'the hair of the bear's fur' |  |  |  |
|  | $b i$ | keige-i | sita-ni | igi-ni |
|  | [[me | cat-1SG] | child-3SG] | tail-3S |
|  | 'my kitten's tale' |  |  |  |
|  | bi | abuga-i | anda-ni | 'ana-ni |
|  | [[me | father-1SG] | friend-3SG] | boat-3SG |
|  | 'the boat of my father's friend' |  |  |  |

### 13.1.3. "Double" possessive noun phrase

Since Udihe has two types of possessive constructions with two different meanings, the regular Possessive (4.1.4) and the Alienable Possessive (4.1.4.1), a situation may arise when one noun stands in two different possessive relationships to two possessive modifiers of different types. In this case the possessive marking on the head noun is subject to conflict. As demonstrated by (934b), the $3^{\text {rd }}$ person possessive affix that expresses the alienable possessive relationship, as in (934a), is suppressed and the head noun is only marked for regular possession. Yet, the marker of alienable possession is present.
a. nua-ni nakta dili-ni-ni <he-3SG boar head-AL-3SG> nua-ni kuyka mo:-ŋi-ni 'his cedar tree' <he-3SG cedar tree-AL-3SG>
b. bi nakta dili-ni:
<me boar head-AL.1SG>
bi küka mo:-ŋi: <me cedar tree-AL.ISG>
'his boar's head'
'my boar's head'
'my cedar tree'

### 13.1.4. Plurality within the possessive noun phrase

Expression of plurality is always optional in Udihe (4.2.1), thus, plurality of the head noun may remain unexpressed formally. However, within the possessive noun phrase with the pronominal possessor the plurality of the head noun can be encoded by the possessive Plural affix $-n A-(4.1 .2 .3)$.
a. Nua-ni men-e neŋu-ne-zi:
he-3SG REF-0 younger.sibling-PL-INST.REF.SG
b'agdi-e-ti. meet-PAST-3PL 'He met his younger siblings.'
b. bi mo:-ทi-ne-i
me tree-AL-PL-1SG
'my firewood'
$\begin{array}{llll}\text { c. } & B i \quad \text { N'ädiga } & \text { xanta-na-wa-ni } & \text { sa:-mi. } \\ \text { me Nadiga } & \text { relative-PL-ACC-3SG } & \text { know-1SG }\end{array}$ 'I know Nadiga's relatives.'
d. Udie ni:-ne-we-ni santa-na-wa-ni, Udihe man-PL-ACC-3SG old.people-PL-ACC-3SG a:nta-na-wa-ni,
ñaula-na-wa-ni
woman-PL-ACC-3SG child-PL-ACC-3SG
teluøu-si-du-ze. story-IM-PL-SUBJ
'Let them tell about the Udihe old people: men, women, and children.'

Although -nA- is preferable in this case, the regular Plural affix -ziga- is also available, cf.: su zueze-ziga-wa-u 'your tables' <you table-PL-ACC-2PL>, bi in'ei-ziga-wa-i 'my dogs' <me dog-PL-ACC-1SG>. Thus, for example, bi zube sita- $i$ <me two child-1SG>, bi zube sita-ziga- $i$ <me two child-PL-1SG>, and bi zube sita-na-i <me two child-PL-1SG> are synonymous and all mean 'my two children'. The Plural suffix $-n A$ - is restricted to noun phrases with a pronominal possessor. In the noun phrases with a lexical possessor only the suffix -zigamarks plurality, cf.: aziga anda-ziga-ni <girl friend-PL-3SG> 'friend of the girl', while *aziga anda-na-ni <girl friend-PL-3SG> is ruled out.

With Plural lexical possessors marked by the Plural affix the head noun takes either the Singular ( $-n i$ ) or Plural ( $-t i$ ) $3^{\text {rd }}$ person agreement: On the other hand, if plurality of the modifier is not expressed on it, it must be expressed by the $3^{\text {rd }}$ person Plural agreement affix on the head noun. Further, the $3^{\text {rd }}$ person Plural possessive affix -ti may express plurality of both the possessor and the possessed. although the former interpretation is preferable: mamasa-ti 'their wife' and 'his wives' (SK 539). Finally, the Singular head noun may be semantically Plural (4.2.1.1.2). Thus, the noun phrase is highly ambiguous with respect to number. Plural markers either on the head or on the modifier license different readings.

| possessor | head <br> SG | example |
| :--- | :--- | :--- |
| SG | sono sita-ni 'bear's cub, <br> bear's cubs, bears' cub, bears' cubs' <br> sono sita-ti <br> 'bears' cub, bears' cubs, bear's cubs' <br> sono-ziga sita-ni <br> sono-ziga sita-ti |  |
| SG | SG | 'bears' cub, bears' cubs' <br> sono sita-ziga-ni <br> 'bear's cubs, bears' cubs' <br> sono sita-ziga-ti <br> 'bears' cubs' |
| PL | PL | sojo-ziga sita-ziga-ni <br> sono-ziga sita-ziga-ti <br> 'bears' cubs' |

When the possessor noun functions as a head of its own possessive noun phrase with a pronominal modifier, its plurality may be expressed with the possessive Plural suffix -nA-:
[bi anda-na-i] zugdi-ti
[bi anda-na-i] zugdi-ni
'the house(s) of my friends'
<me friend-PL-1SG house-3PL> <be friend-PL-1SG house-3SG>

### 13.2. Adjectival modifier

The organization of the adjectival noun phrase is conditioned by information structure considerations (see 24.2), here we address only the prenominal noun phrase that is neutral with respect to information structure. On adjectives that take an oblique argument, and the organization of the adjectival phrase, see 6.3.

Pronominal adjectives (pro-adjectives), namely, the demonstratives ei 'this' and (u)ti 'that' (9.4), the interrogatives $j$ 'a-ma 'made of what', ono-fi 'what sort of', ali-fi 'what sort of, from what time', adi-ti 'which (in number)' (9.5.2), as well as the other pronominal determiners (such as xonto 'another', gagda 'another' and gere 'each', see 9.7) behave like other adjectives in the attributive function. However, they can only be prenominal, and never undergo modifier raising or discontinuous postposing.

### 13.2.1. The structure of the phrase

The structure of the adjectival noun phrase is:
adjective - head noun (+ case affix)
The head noun takes the case affixes indicating the syntactic role of the noun phrase, but there is no agreement in case between it and the attribute.


### 13.2.2. Plural agreement

Morphologically Plural head nouns always trigger number agreement, that is, if the head noun is marked with the Plural affix -ziga or the possessive Plural $-n A-$ the adjective must take the Plural affix $-\eta k u$, cf. examples (a) and (b) below:
a. Uligdig'a-ŋku
moxo-ziga bi-si-ti.
beautiful-PL cup-PL be-PAST-3PL
'There were beautiful cups.'
b. *Uligdig'a moxo-ziga bi-si-ti.
beautiful cup-PL be-PAST-3PL
'There were beautiful cups.'
a. nua-ni ila nic'a-yku sita-na-ni
he-3SG three small-PL child-PL-3SG
'his three small children'
b. *nua-ni ila nic'a sita-na-ni
he-3SG three small child-PL-3SG
'his three small children'
The reverse is not true: the adjective in the Plural does not entail a formally Plural head noun. Thus, the plurality of the head noun may be expressed solely by the Plural affix $-\eta k u$ - on the adjectival modifier, although, like other means of encoding plurality, it is optional.

| a. | Min-du | imexi-ŋku | mo:-wo | juŋkäla:-ti. |
| :---: | :---: | :---: | :---: | :---: |
|  | me-DAT | new-PL | tree-ACC | carry.PAST-3PL |
|  | 'They b | ght me new |  |  |


| b. | Bi weige-i | imexi- $\eta$ ku |
| :--- | :--- | :--- |
| me earring-1SG | new-ige. |  |
|  | new earrings (several pairs) are new.' |  |

The possible formal patterns for expressing plurality of the head noun within the adjectival phrase are as follows:

$$
\begin{align*}
\text { 'tall mountains' } & \text { gugda we: }  \tag{943}\\
& \text { gugda- } \eta k u \text { we: } \\
& \text { gugda- } \eta k u \text { we:-ziga } \\
& \text { }
\end{align*}
$$ SG-SG

PL-SG

PL-PL
SG-PL

The nominal head, therefore, must control number agreement on the adjectival modifier, although the head itself is not necessarily morphologically marked for plural.

Compound adjectives (6.4.4), pronominal adjectives, and some other adjectives (6.1.2.1.1) do not take Plural affixes under any conditions. For such a noun phrase plurality - if emphasized - may be expressed with the restrictive particle m'ei (12.1.1.9.3). However, in at least two examples at our disposal, a compound adjective bears the nominal Plural affix -ziga. Both cases involve ideophones in the attributive position, which either precede or follow the head.
a. xutam-ziga buŋčau red-PL ginseng '(a lot of) red ginseng' (SKX 318)
b. e:xi-ziga bigzam-ziga frog-PL bow.legged-PL
'bow-legged frogs' (SKX 232)

### 13.3. Quantified noun phrase

The following quantifiers are observed: quantificational nouns (13.3.3), universal quantifiers (13.3.2), scalar quantifiers (13.3.4), and numerals (13.3.5). The regular word order within the quantified noun phrase is
(945) quantifier - head noun (+ case affix)

A preposed quantifier has the bare form; the syntactic relationship between it and the head is not encoded morphologically. The universal quantifier teu 'all', as well as certain scalar quantifiers and quantificational nouns allow modifier raising (24.2.1.1). Most scalar and universal quantifiers participate in the quantifier float construction (24.2.1.2.2). Some scalar quantifiers and numerals may exhibit agreement in (the Accusative) case with the head (13.3.6). Together with the Accusative case agreement between the relative clause and its head (19.2.3), this is the only instance of attributive case agreement in Udihe. The number of the head noun is addressed in 13.3.1.

### 13.3.1. Number of the head noun

The head noun within the quantified noun phrase is normally in the Singular, that is, there is no grammatical requirement to express its plurality for any type of quantified noun phrase, cf.: teu in'ei 'all (the) dogs', egdi tukca 'many hares', zube časa 'two hours', etc. Although the Singular is regular, it is not ungrammatical for the Plural form to co-occur with a quantifier either. Plurality is morphologically marked on the head noun if it is emphasized, and there is a clear opposition between a single entity and many of them. Compare (946a) and (946b); in the latter plurality is marked with the suffix -ziga-. In (947) the Plural of the quantified noun is encoded by the possessive Plural marker $-n A$ because it also acts as the head of the possessive noun phrase.

| a. | Za: <br>  <br> four$\quad$ n'aula | w'ali-e-ti. |
| :--- | :--- | :--- | :--- |
| 'Four boys fought.' | fight-PAST-3PL |  |

(947) Odo
grandfather
nimasi-e-ni.
tell-PAST-3SG
'The grandfather told his two grandchildren a tale.'
When the quantified noun corresponds to the subject role, the verb may show Singular and Plural agreement (15.1.1.2.2).

### 13.3.2. Universal quantifiers

The universal quantifier teu 'all' was addressed in section 11.2.2.1 in its argument and adverbial functions. In a modifier function it occurs either in preposition or postposition to the head noun, being adjacent to it in both cases. Since such behavior is typical of other modifiers and is here referred to as "modifier raising" (24.2.1.1), we will not speak of quantifier float in this case. The instances of quantifier float as such are discussed in 24.2.1.2.2. Below we illustrate the prenominal universal quantifier in the bare form.
$\begin{array}{lllll}\text { a. } & B i \quad o-d u & \text { teu } & \text { ni:-we } & \text { sa:-mi. } \\ \text { me this-DAT } & \text { all } & \text { man-ACC } & \text { know-1SG }\end{array}$ 'I know every person here.'
b. Teu jandasi-wa gazi-e-ni.
all badger-ACC take-PAST-3SG
'He took away all the badgers.' ( K 150 )
c. $\begin{array}{lll}\text { Teu } & \text { wakca-i } & \text { ni: } \\ \text { all } & \text { hunt-PRP } & \text { manga-yku. } \\ \text { string-PL }\end{array}$.
'All the hunters are strong.'

### 13.3.3. Quantificational nouns

Within a noun phrase quantificational nouns express a certain quantity associated with the head noun. Certain quantificational nouns can undergo modifier raising, they are treated in 13.3.3.1. Other quantificational nouns never raise (13.3.3.2). Partitive meanings may be expressed by the possessive construction (xauje pei-ni 'a piece of paper' <paper piece-3SG>, sexi pei-ni 'a piece of cloth' <cloth piece-3SG>, etc.), on these see 4.2.3.2 and 13.1.

### 13.3.3.1. Quantificational nouns that can raise

Qantificational nouns that can undergo modifier raising are tie 'pair' which refers to paired objects and kaydugu 'half'. In non-raising constructions they precedes the head noun in the Singular.
a. tie unta 'the pair of boots'.
$\begin{array}{llll}\text { b. } \begin{array}{lll}\text { Omo } & \text { tie } & \text { weige-we } \\ \text { one } & \text { pair } & \text { earring-ACC }\end{array} & \text { gada:-mi. } \\ \text { buy.PAST-1SG }\end{array}$
'I bought a pair of earrings.'

| Jegdigesue <br> hero | kandugu-we-ni <br> whetstone <br> half-ACC-3SG | wente-mi <br> throw-INF |
| :--- | :--- | :--- |
| say-PAST-3SG |  |  |
| 'Throwing half of the whetstone the hero said ...' (SKX 240) |  |  |

On the raising construction see 24.2.2.1.2.

### 13.3.3.2. Prenominal-only quantificational nouns

Quantificational nouns that do not raise typically denote containers (for example, moxo 'mug, cup, bowl', mulexi 'bucket', adili 'net'), measurements, which are usually borrowed from Russian (metra 'meter'), and collections (tiemule 'pair'). In non-raised constructions they are preposed to the head noun in the morphologically bare form. Quantificational nouns, especially nouns of measurements (952) are normally modified by cardinal numerals.

| a. | Omo <br> one$\quad$ mulexi | uli-we | gacket | water-ACC |
| :--- | :--- | :--- | :--- | :--- |
| one | carry-3SG |  |  |  |

b. Bi zube moxo gampa-wa diga:-mi. me wo mug porridge-ACC eat.PAST-1SG 'I ate two bowls of porridge.'
$\begin{array}{llll}\text { c. } & \begin{array}{ll}\text { Bi omo tie-mule } & \text { k'olo-wo } \\ \text { me one pair-N } & \text { gada:-mi. } \\ & \text { mitten-ACC }\end{array} & \text { buy.PAST-1SG } \\ & \text { 'I bought a pair of mittens.' } & & \end{array}$

| a.Omo litra čaja-wa kungede:-ni. <br> one liter tea-ACC pour.PAST-3SG <br> 'He poured one liter of tea.'  |  |
| :--- | :--- | :--- | :--- |

b. Tüa kile ule:-we gazi-e-ni. five kilogram meat-ACC buy-PAST-3SG 'He bought five kilograms of meat.'

### 13.3.4. Scalar quantifiers

A number of scalar quantifiers undergo modifier raising (24.2.1.1) and quantifier float (24.2.1.2.2). Some scalar quantifiers may exhibit agreement in case with the head noun (13.3.5). On headless noun phrases with scalar quantifiers see 22.2.3. Examples of prenominal scalar quantifiers are:

| a. | Nua-ti $\quad$ täsi uli-we gada:-ti. <br> he-3PL much water-ACC bring.PAST-3PL |
| :--- | :--- | :--- | :--- |
| 'They brought a lot of water.' |  |

b. Läsi
ñono-wo wo:-ni.
much glue-ACC make.PAST-3SG
'He made a lot of glue.'
c. Ñanga okto-wo
kupede:-ni.
little medicine-ACC
pour.PAST-3SG
'He poured out a little medicine.'
d. Xa:ni mo: omo-t'o bagdi--ti.
several tree one-REST live-3PL
'Several types of tree grow separately.'
e. Nua-ti adi-gende ni:
he-3SG how.many-IND man go.PAST-3PL
'They went, several people.'
f. I:-le gene-se:-i
what-LOC bring-EXP.PAST-2SG
egdi-lepki činda-wa?
many-ADJ bird-ACC
'From where did you bring so many birds?'

### 13.3.5. Numerals

Numerals may precede or follow the head noun, but they do not undergo raising. Cardinal numerals in the nominal form act within the headless noun phrase (22.2.3).

Cardinal numerals (11.1.1), when used attributively, co-occur with the Singular form of the head noun (although the morphological expression of
plurality is not excluded either, see 15.1.1.2.2). Agreement in case is absent, cf.:


On other types of numerals see 11.1.
In some adverbialized temporal expressions in the Accusative (15.4.2.6) a numeral modifier may be the locus of the marking of the external syntactic relations of the phrase, while the head is uninflected (955). When the modifier corresponds to the numeral omo 'one' neither the modifier nor the head adverbial are usually marked for the Accusative case (956).

| a.Tunaza-ma aya-ni | geje bagdi-e-u. |  |
| :--- | :--- | :--- |
| fifty-ACC | year-3SG | together live-PAST-1PL.EX | 'We lived together for fifty years.'

$\begin{array}{lll}\text { b. } & \begin{array}{l}\text { Nada-ma apa-ni } \\ \text { seven-ACC year-3SG }\end{array} & \text { sapuli-tigi } \\ \text { box-LAT } & \text { tu: } \\ \text { all }\end{array}$
ise-si-e-ni.
see-IM-PAST-3SG
'For seven years she was looking at the box (for eating sticks).'
(K 118)
c. Nua-ni
he-3SG come-REP-PAST-3SG
ila-ma
three-ACC
neni-ni zulie-ni.
day-3SG before-3SG
'He arrived three days earlier.'
d. Tuna-ma neni zulie-ni five-ACC day before-3SG
nua-ni
xoton-du bi-si-ni.
city-DAT be-PAST-3SG
'Five days ago he was in the city.'
he-3SG
bagdi-e-mi.
live-PAST-1SG
$B i \quad o-d u \quad$ omo $\quad$ aya-ni
me this-DAT one year-3SG
'I lived here for one year.'
(956)

| f. | Nua-ni teu-me-ni <br> he-3SG all-ACC-3SG | ag'a-na-wa-ti <br> nigmele-si-e-ni. |
| :--- | :--- | :--- |
|  | swallow-IM-PAST-3SG |  |
|  | 'He swallowed all the elder brothers.' (SKX 112) |  |
| g. | Nadä-ma-ti $\quad$ kamisi-we | nientile:-ni. |
|  | seven-ACC-ORD bucket-ACC open.PAST-3SG |  |
|  | 'He opened the seventh bucket (made of birch bark).' (SK 591) |  |

a. Bue-ti gegbeŋku-we läsi egdi-we gada:-ti. he-3PL berry-ACC very many-ACC collect.PAST-3PL 'They collected very many berries.'
b. Udie keje-we-ni wac'a-ma egze-mi.

Udihe language-ACC-3SG little-ACC understand-1SG
'I understand Udihe (only) a little.'
c. Anana imajku-we egdi-me
long.ago tale-ACC many-ACC ima-si-e-ni.
tell-IM-PAST-3SG
'Earlier they told a lot of tales.'
d. Bi sita-wa-na-i
me child-ACC-PL 1 SG
$z a:-m a$
$b^{\prime} a$
bi-s'e-i.
be-PERF-1SG
'I gave birth to ten children.'
e. Čoxia Mätu ja:-wa-ni

Choxia Mjatu eye-ACC-3SG both-ACC-3PL
jakta-gi-e-ni.
open-REP-PAST-3SG
'He opened both the eyes of Choxia Mjatu.' (SKX 162)
f. Nua-ti teluyu-we egdi-me sah. he-3PL story-ACC many-ACC know.
'They know a lot of stories.' (SK 1098)
If the quantified noun phrase occupies a syntactic position different from that of the direct object, attributive agreement is normally absent. In the Northern dialect case agreement is optionally allowed for an Instrumental noun phrase, but this type of agreement is extremely rare.

| a. | Zu:-zie | xula-zie | Ketejie | ada-wa |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | two-INST | blanket-INST | Keteng | mountain.pass-ACC |  |
| ada-ma-za-mie. |  |  |  |  |  |
| mountain.pass-V-SUBJ-1SG |  |  |  |  |  |
| 'I will cross the Keteng mountain pass with two blankets.' (SKX 330) |  |  |  |  |  |
| b. | Zu:-zi | mamasa-zi | osi-gi-e |  | tene. |
|  | Two-INST | wife-INST | become |  | CON |
|  | 'He started | living) with t | wives.' |  |  |

### 13.4. Pronominal determiners within the noun phrase

Pronominal determiners within the noun phrase are the Demonstratives (9.4) and certain other determiners (9.6). Pronominal determiners always stand in preposition to the head. They never raise, and never show agreement with the head nominal. In the absence of the head, Demonstratives may substantivize (22.2.3). Examples of pronominal modifiers are presented in the corresponding sections in Chapter 9.

Udihe does not have articles. The numeral omo 'one' is often used as an indefinite article, but is by no means obligatory in this function.


### 13.5. Postpositional phrase as a modifier

Comitative and comparative postpositional phrases can function as nominal modifiers. In the absolute majority of cases the postpositional phrase is postposed with respect to the head noun, although certain postpositional phrases allow preposition as well.

### 13.5.1. Comitative postpositional phrase

As mentioned in 10.2.2.2.4, postpositional phrases with the comitative postpositions mule, geje, and zuye 'with' can function as as an independent adjunct (10.2) and as a nominal modifier. The distinction between these two
functions subsumes three formal factors. First, in clauses with comitative adjuncts the verb shows Singular agreement if the subject is in the singular. As an adjunct, the postpositional phrase can be removed from the sentence without affecting its grammaticality. On the other hand, when the comitative noun phrase modifies the subject, the verb always shows Plural agreement, independent of the number of the subject itself. Thus, if the subject is formally and semantically singular, the sentence will be ungrammatical without the postpositional phrase. Such a noun phrase also triggers Plural reflexive markers on a possessed noun.

```
(961) Kanda mafa mamasa mule alasi:-ti
    Kanda old.man wife with wait.PRES-3PL
    men-e sita-fai.
    REF-0 son-REF.PL
    'The old man Kanda and his wife are waiting for their son.' (SK 581)
```

Second, the postpositional noun phrase modifies a noun phrase that can basically correspond to any syntactic role. However, the postpositional phrase with an adverbial function characterizes the action by referring to the subject participants. Finally, the comitative adjunct occupies a relatively free position in the sentence, while the comitative modifier always immediately follows the head noun.

Examples of the comitative postpositional adjuncts are presented in 10.2. Examples of the comitative postpositional phrase in the modifier function are:

| a. | Ogbö | exi | zupe |
| :--- | :--- | :--- | :--- |
| elk | frog | with | live-PAST-e-ti. |
|  |  |  |  |

'The elk and the frog lived together.'
b. Bi aziga-ziga-zi
geje
together
yene-u.
me girl-PL-INST
go-1PL.EX
'I am going together with the girls.'

As argued in 10.2.2.2.4, the postpositional phrase with the postposition mule 'with' expresses close (family) association between two animate participants, cf.:
a. Bi anda mule jäixi jene-u.
me friend with to.the.river go-1PL.EX 'I go to the river with my friend.'
b. $\begin{array}{lll}\text { Ag'a } & \text { nequ } & \text { mule } \\ \text { elder.brother mo:-wo la-iti. } \\ \text { 'The elder brother and the younger brother are sawing a tree.' }\end{array}$

| c. Ja: sita mule wo:kto-wo | diga:-ti. |  |
| :--- | :--- | :--- | :--- | :--- |
| cow | child with grass-ACC | eat.PAS-3PL |
| 'The cow and the calf were eating grass.' |  |  |

With the postposition mule the possessive relationship as such is not formally expressed, although it is part of the inherent meaning of the postposition. When emphasized, it may be denoted by the possessive modifier, such as the reflexive pronoun men-e in (964), but even in this case possessive affixes on the argument of the postposition are absent. However, a sort of associative possessive relationship between the two participants that remains semantically unspecified may be encoded with the alienable possession affix - $\boldsymbol{\eta} i$ - (965).

| (964) Bi abuga-i | men-e | abuga mule |
| :--- | :--- | :--- |
| me father-1SG | REF-0 | father with |
| ana-du | bi:-ti. |  |
| night.shelter-DAT | be-3PL |  |
| 'My father lives with his father in a tent.' |  |  |

a. Ira-ŋi mule zima:-ti. Ira-AL with visit.PAST-3PL
'He went on a visit together with his Ira.'
b. Kanda mafa mamaka-ni mule bagdi-e-ti.

Kanda old.man wife-AL with live-PAST-3PL
'The old man Kanda lived with his wife.'
c. Belie Biatu-yi: mule
fairy Biatu-AL.REF with
sauli-masi-li-e-ti.
have.feast-REC-INC-PAST -3PL
'The fairy and her Biatu started having a feast together.' (SK 786)
When the head noun of the noun phrase modified by the comitative postpositional phrase bears a grammatical relation other than the subject, the construction is realized as a postnominal relative clause with the participle bi:'being'. As in regular internal relative clauses (19.2), it is not the head but the subordinate predicate that is marked for case.

| Nua-ni | sa-ini | mafa | mamaka | mule |
| :--- | :--- | :--- | :--- | :--- |
| he-3SG | know-3SG | old.man | old.woman | with |

bi:-we-ti.
be.PRP-ACC-3PL
'He knows an old man with the old woman.'
literally: 'He knows the old man who is with the old woman.'

### 13.5.2. Comparative postpositional phrase

Comparative postpositions such as bede 'like', di:yki- 'of the size of', and bubu 'similar to' with modifier function may be both in preposition (967) and in postposition (968) to the head noun.
a. $\quad B i \quad$ ise:-mi me see.PAST-1SG cat size-3SG rat-ACC 'I saw a rat the size of a cat.'
b. Mene mamasa-na-mi bä: bede belie-we REF wife-DEST-REF moon like fairy-ACC b'a-ni.
get.PAST-3SG
'He took a fairy like a moon as a wife.' (SKX 248)
(968) Bi solügi in'ei-we sul'ai bede ise:-mi. me orange dog-ACC fox like see.PAST-1SG
'I saw a dog that was orange like a fox.'

### 13.6. Oblique-case noun phrase as a modifier

Generally speaking, the oblique-case noun phrase in modifier function is not very common in Udihe. In a number of cases, as, for example, in (969), we do not have clear criteria for identifying the syntactic status of the oblique-case noun phrase (modifier vs. adjunct).
a. Bi bagdi-mi we:-le me live-1SG mountain-LOC ' $I$ live in a house on the mountain.'
b. Xaba-wa bayza-digi umi-e-ni. milk-ACC bottle-ABL drink-PAST-3SG
'He drank milk from the bottle.'


Normally the modifier meaning can be rendered by means of the copular relative clause with the participle bi:- 'being', where the oblique-case noun phrase functions as a predicative element:


Below we present only some relatively clear cases of the oblique-case noun phrase in the modifier function.

### 13.6.1. Instrumental noun phrase

The Instrumental noun phrase expresses the comitative meaning within the subject noun phrase. Although the subject itself is in the singular, the verb shows Plural agreement. The Instrumental noun phrase typically stands in postposition to the head nominal, but the pronominal subject itself may be omitted (972).
(971)

c. Bi od'o-i ei ninka-zi
me grandfather-1SG this Chinese-INST anana anda-mule bi-si-ti.
long.ago friend-N be-PAST-3PL
'Previously my grandfather was a friend of this Chinese.'
d. Nua-ti si sagdi sita-zi anda-mule
he-3PL you old son-INST friend-N
ede:-ti.
become.PAST-3PL
'They became friends with your elder son.'

| e. | Kuti | keige-zi | anana | aja | bi-si-ti. |
| :--- | :--- | :--- | :--- | :--- | :--- |
| tiger | cat-INST | long.ago | good | be-PAST-3PL |  |


| Pakula-zi | za:-mule | bi-u. |
| :--- | :--- | :--- |
| Pakula-INST | friend-N | be-1PL.EX |

'We are friends with Pakula.'

Note that although verbal agreement indicates plurality of the agent participants, the Instrumental noun phrase is not characterized by any subject properties, as they are identified in 15.1.1. For example, it cannot control the infinitival clause, as shown below.

$$
\begin{array}{lccl}
\text { Wakca-mi } & \text { Pakula } & \text { tukca-zi } & \tilde{n} a: m a-s i-e-t i .  \tag{973}\\
\text { hunt-INF } & \text { Pakula } & \text { hare-INST } & \text { quarrel-IM-PAST-PL } \\
\text { Pakula }_{\mathrm{i}} \text { and a hare }{ }_{\mathrm{j}} \text { had a quarrel while he } \mathrm{i}_{\mathrm{j} * \mathrm{j}} \text { was hunting.' }
\end{array}
$$

The Instrumental noun phrase in the function of the comitative adjunct is addressed in 15.4.5.7.

### 13.6.2. Accusative noun phrase

A few nouns assign the Accusative case to their argument. These are nouns converted from transitive verbs such as teluyu 'legend, story', jexe 'song' (5.2.1), instrumental and other nouns derived with the suffix - $\eta k u$, $-\eta k A$ (5.1.1.4), for example, nimanku 'tale', and the names of measures, both those borrowed from Russian, such as kile 'kilogram', kilometra 'kilometer', and those of native origin, derived with the suffix -lA (5.1.2.1.2). In the following sentences one Accusative noun phrase encodes the regular direct object, while another corresponds to its argument. The Accusative argument precedes the head.

```
(974) a. Bi sunzi: aju-ini songo-wo
me grandchild like-3SG bear-ACC
    teluyu-si-we.
    story-V-ACC
    'My grandchild likes a story about a bear.'
b. Bi e-si-mi oŋmo imajku-we
    me NEG-PAST-1SG forget tale-ACC
    tukca-wa.
    hare-ACC
    'I don't forget a tale about a hare.'
c Nua-ni songo-wo jimayku-we teluyu-si-e-ni.
    he-3SG bear-ACC tale-ACC story-V-PAST-3SG
    'He told a tale about the bear.'
```


### 13.7. Nominative noun phrase

A noun phrase where the modifier is expressed by the bare Nominative is very marginal in Udihe. In such a construction the head noun corresponds to the possessor role, while the modifier means some part of the head noun or its measurement. The phrase is head-final.


As can be seen, the modifier typically heads its own phrase. We have only a few examples where this condition does not hold.
seutigi mo: 'tree with pine-cones'
<pine.cone tree>
bua ege 'soul of the world' (SK 106)
<world soul>

### 13.8. Adverbials within a noun phrase

Adverbials rarely occur within a noun phrase. The most typical examples are the superlative adverb $c$ ' $o$ 'the most' and the degree adverb belem 'completely' which are compatible with some parametric nouns, as illustrated below.

```
(977) c'o sagdinta 'the oldest (man)'
    <most old.man>
    belem sagdinta 'completely old (man)'
    <completely old.man>
    c'o 'ai-ti 'their eldest brother' (K 117)
    <most elder.brother-3PL>
    c'o uke-le 'right next to the door' (SK 939)
    <most door-LOC>
    c'o neru-ti 'their youngest sibling'
    <most younger.sibling-3PL>
```


### 13.9. Apposition

Appositions are nouns that share a referent with the head. In Udihe they always take the Nominative form, independent of the case of the head noun, and can be both prenominal and postnominal.

### 13.9.1. Prenominal appositions

Most appositional nouns in Udihe are prenominal. They comprise the following types.
(i) Appositions involving a proper name when the head noun is a kinship term, as in (978). Note that otherwise the relationship between the proper and the common noun is expressed with the possessive noun phrase (4.2.3.2).
a. Koko od'o-tigi nene:-mi.

Koko grandfather-LAT
'I went to grandfather Koko.'
b. Ñ'ädiga susu ketu pakibi-s'e. Nadiga uncle very skillful be-PERF 'Uncle Nadiga was very skillful.'
c. Koja mamaka-la gene-gi-ze-mi.

Koja old.woman-LOC fetch-REP-SUBJ-1SG
'I shall take (it) back from old woman Koja.'(K 193)
(ii) Although the gender relationship is normally rendered by the possessive noun phrase (4.2.3.2.3), certain expressions require the appositional construction:
(979) ma:ma bui 'female of the tiger or bear' <grandmother animal>
etige bui 'male of the tiger or bear'
<male animal>
zauŋa en'ese 'female of a salmon fish'
<salmon female>
n'ädiga aziga 'girl, the youngest child'
<youngest.child girl
ogbö logoso
<elk male>
sie bui, sie mafa 'adult male of the bear' (K 13019)
<adult.bear>
(iii) Appositions may involve a species relationship between two nouns:

```
a. Bi sita-i kuliga guy-ki-ni.
    me child-1SG snake say-PAST-3SG
    'My snake son spoke.'
    b. xaŋa-ŋku zolo
    guess-N stone
    'a guessing (tool) stone'
    c. zimali kil'ai
    seagull gull
    'seagull' (K 179)
    d. labuga ima:
    snowflake snow
    'snowflake'
    e. sige mafa-i
    mouse old.man-VOC
    'old man mouse (addressing a mouse in a tale)'
    f. kanda mafa
    kanda old.man
    'the old man kanda' (kanda is a generic name for a class of folklore
    character)
```

Cf. also zima ni: 'guest' <guest man> (SKX 314), and nakta ni: 'boar-man (in a game)' <boar man>.

### 13.9.2. Postnominal appositions

Postnominal appositions modify a personal pronoun and do not involve a proper name.

(981) | Bu udie | o-du | bagdi-u. | Bu |
| :--- | :--- | :--- | :--- |
| we Udihe | this-DAT | live-1PL.EX | we |
| aja-zi | wakca-mi | $\tilde{n o n i}:-u$. |  |
|  | Udihe |  |  |
|  | good-INTR | hunt-INF | can-1PL.EX |
|  |  |  |  |
|  | We, Udihes, live here. We, Udihes, can hunt well.' |  |  |

In the language of the younger generation and apparently under Russian influence a proper name may be postposed after the kinship term and behave as a syntactic head (982).

| Bi men-e | anda- $\boldsymbol{i}$ | Susana-wa | aju-mi. |
| :--- | :--- | :--- | :--- |
| me REF-0 | friend-1SG | Susan-ACC | love-1SG |

'I love my friend Susan.'
In the Northern dialect postnominal opposition seems to be more widespread, cf.:
a. wakča-i ni: au-ni bogdo <hunt-PRP man hat-3SG bogdo>
b. bi mafa-i amba
<me husband-1SG evil.spirit>
'hunter hat "bogdo"'
(SKX 308)
'my evil spirit husband'
(SKX 82)

In this type of apposition case agreement is possible, cf.:
a. In'ei-we guasa-wa alau-gi-e-ti.
dog-ACC bitch-ACC harness-REP-PAST-3PL
'They harnessed the bitch dog.' (SKX 208)
b. Kanda mafa mamasa mule belie-we
kanda old.man old. woman with fairy-ACC Ajaula-wa tuxi-le te-wey-ki-ti.
Ajaula-ACC sledge-LOC sit-CAUS-PAST-3PL
'The old man Kanda with the old woman seated the fairy Ajaula on the sledge.' (SKX 210)


### 13.10. Word order in the noun phrase with several modifiers

Noun phrases including more than one adjective are very infrequent, although altogether not excluded. More than one attributive modifier of different types may precede a head noun, though the number of such modifiers almost never exceeds two at a time. When the head noun is preceded by two or more modifiers of different types their position with respect to each other is as follows: Demonstrative - possessive - quantifier - adjective - head. Thus, Demonstratives always precedes all types of other modifiers: ei bi anda-i 'this my friend' <this me friend-1SG>. The quantifier precedes the adjective (985a) but follows the possessive modifier (985b).
a. zube sagdi guese
<two large pike>
<two large pike>
b. bizu: ag'a-i
'two large pikes'
<me two brother-1SG>

Within the possessive noun phrase the adjective or the quantifier is located immediately before its head, cf.:
$\bar{N}$ 'ädiga imexi zugdi-ni <Nadiga new house-3SG> bi imexi upta-i
<me new boot-1SG> aja aziga anda-ni
<nice girl friend-3SG> aziga aja anda-ni <girl nice friend-3SG> tuja aziga abuga-ti <five girl father-3PL>
'Nadiga's new house'
'my new boots'
'a friend of the nice girl'
'a nice friend of the girl'
'the father of five girls'

However, certain examples are attested where the adjectives that modify the head noun precede the possessive modifier. Compare (987a) and (987b), where the adjective tipe-fi 'yesterday's' can be understood as referring to the head noun xokto-wo-ni 'his footsteps', although it does not precede it immediately. Some other examples are (988).
a. Wakca-i ni: sagdi hunt-PRP man big tiger footstep-ACC-3SG $b^{\prime} a-n i$.
find.PAST-3SG
'The hunter found the footsteps of a big tiger.'
b. Wakca-i ni: tiye-fi kuti
hunt-PRP man yesterday-ADJ tiger
xokto-wo-ni b'a-ni.
footstep-ACC-3SG find.PAST-3SG
'The hunter found yesterday's tiger footsteps.'
a. Sugbu-me
emende
tege-we-ni
fish.skin-ADJ
witch
gown-ACC-3SG
bu-gi-eni.
give-REP-PAST-3SG
'He gave the witch's gown made of fish skin back (to her).'
(SKX 230)
b. nada omoti sulai igi-we-ni
seven identical fox tail-ACC-3SG 'seven identical fox tails (ACC)' (SKX 244)

Relative clauses rarely admit other modifiers. In the following examples the external relative clause is preceded by the universal quantifier (989a) a possessive modifier, as in (989b), or followed by a numeral (989c).
a. Teu kapta-ktu dili-ni dayda-dayda.
all [wrap-RES] head-3SG wrapped-wrapped
'His whole head is wrapped up.' (K 107)

'And this is my place for braking and scraping the skins.' (K 182)
$\begin{array}{lllr}\text { c. } \begin{array}{lll}\text { Tokö } & \text { ojo-ni-ni } & \text { teh-i-we-ti }\end{array} \\ \begin{array}{lll}\text { cloud } & \text { top-DAT-3G } & \text { sit-PRP-ACC-3PL }\end{array} & \text { two } \\ \text { aziga-wa } & \text { ise-he-ni. }\end{array}$

## Chapter 14 <br> Verbal valence

This chapter presents lexical and syntactic information on the valence patterns of Udihe verbs. The adjectives that take a second argument are described in section 6.3.3, which deals with the adjectival phrase.

Valence patterns are presented in schemas that indicate the semantic role and the formal encoding of each argument. This is represented in the form "semantic role/case marking". For example, the sign A/NOM means that the verb assigns the semantic role of agent, and the corresponding argument is expressed by a nominal with the Nominative case marking. The semantic roles used in this chapter are largely conventional; the corresponding meaning should be clear from the translation provided. However, we have found it convenient to use several semantic labels to generalize the semantic content of typical arguments. The following semantic labels will be used:

A - agent (also includes experiencer, force, and other possible "agent-like" valences; corresponds to the single arguments of an intransitive verb);
E - essive (secondary predicate);
P - patient or theme and the related roles (stimulus, mental goal, content, etc.);

B - benefactive (includes recipient, goal, malefactive, and the like);
CIR - circumstance (includes comitative, manner, instrument, means, and the like);

L - location (this role includes the whole range of spatial meanings, not only the strictly locational but also the directional; their exact value is usually clear from the case and postpositional marking of the corresponding argument).

All valence patterns in this section reflect the direct voice constructions. This means that the element with the semantic role of agent (A) corresponds to the grammatical relation of the subject (see 15.1). Voice-related transformations of direct voice constructions, as well as other valence-changing operations, are addressed in section 16.1. The present chapter notes, for each group of valence patterns, the possible transformations of the original direct construction, but does not fully describe them.

The formal marking of the arguments is mostly presented in terms of case marking. The usual abbreviations are used for cases in the schemas, and they may be found in the abbreviation list. Other abbreviations are also used in the presentation of valence patterns. ADV stands for "adverbial marking". It indicates that the corresponding argument can be expressed by a postpositional
phrase (mostly with a location meaning) or by spatial adverbs. For example, the verb yene- 'go' takes the agent and location arguments, the latter being expressed by a nominal in the Lative case. This is rendered in a valence schema as A/NOM, L/LAT. However, the postpositional phrase or a spatial adverb can also express the second argument.

> Moskwa-tigi yene- 'go to Moscow'
> <Moscow-LAT>
> tauxi yene- 'go there'
> <go that-LAT>
> uli bagä:za-tigi-ni jene- 'go to the other side of the river'
> <river other-N-LAT-3SG>

The postposition and the adverb in this case are also of the Lative type (see Chapter 10). This option is marked in brackets in the schema, so the complete valence pattern for the verb jene- would be: A/NOM, L/LAT (ADV). Only the general semantic type of spatial postpositions and adverbs is shown here (Locative, Lative, Ablative, or Prolative), their actual forms are discussed in 10.1. Verbs that may take an adjectival argument as well as nominal arguments are not treated as a separate type. Some verbs govern a complement subordinate clause. This option is described in Chapter 20. The adverbial clause of space can substitute for most arguments with the semantic role of Location; this case is dealt with in section 21.2.

We present here valence patterns for null-argument verbs, one-argument verbs, two-argument verbs, and three-argument verbs. It is assumed that the verbs take no more than three arguments (15.3). The list of verbs that corresponds to each pattern is not exhaustive, unless indicated otherwise. For most patterns example sentences are provided.

### 14.1. Null-argument pattern

Null-argument verbs do not assign any semantic roles and normally describe natural meteorological or calendar phenomena. Constructions with these verbs do not allow any of the voice-related transformations described in Chapter 16 except for the Causative (16.1.4). Neither do they allow the Imperative. Null-argument verbs take only the $3^{\text {rd }}$ person Singular agreement markers. The difference between the three patterns described below is in the presence or absence of the semantically empty expletive subject, and in its form if it can be present. On copular subjectless expressions, see 17.2.1.

### 14.1.1. Null-argument verbs

The verbs that do not take the subject argument are non-derived verbs which express calendar and meteorological phenomena, for example:

| tigde- | 'rain' |
| :--- | :--- |
| lada- | 'rain with snow' |
| gekti- | 'frost' |


| bono- <br> ine- | 'hail' |
| :--- | :--- |
| gäwana- | 'dawn' |
|  | 'dawn |

Besides these, certain denominal "meteorological" verbs derived with the suffixes -gi-, -li- and -nA- (see 8.1.1) do not require a subject.

Subjectless sentences often include space, time, or manner adverbs. A frequently used spatial adverb in such sentences is ba:-la 'outside' (literally: 'in nature, in the place' <place-LOC>). Examples are:
a. Ba:-la place-LOC
ñama-li-e-ni.
get.warm-INC-PAST-3SG 'It got warmer outside.'
b. Sugala-digi edi-ne-ini. north-ABL wind-V-3SG
'The wind blows from the north.'
c. Lou-lou tamna:-na-ini.
dense-dense fog-V-3SG
'There is a dense fog.'
d. Täk-täk gekti:-ni.
hard-hard freeze-3SG
'There is deep frost.'

In sentences with an expletive subject (14.1.2) the spatial adverb ba:-la 'outside' does not occur.

The verbs ze-mu:i- 'be hungry' and kogo-mu:i- 'be thirsty' are derived with the Desiderative suffix -mu:i-, although the base stem occurs only in the bound form. They mostly function as one-place verbs, but can sometimes be used in subjectless constructions and take default $3^{\text {rd }}$ person agreement.

$$
\begin{array}{llll}
\text { (993) Ti: } & \text { ze-mu:i-ni, } & \text { ti: } & \text { kogo-mu:i-ni. } \\
\text { here } & \text { food-DES-3SG } & \text { here } & \text { drink-DES-3SG } \\
\text { 'I am hungry and thirsty.' (SKX 276) }
\end{array}
$$

### 14.1.2. Expletive subject

The Expletive subject is in no way required by the grammar, but may co-occur with null-argument verbs.

### 14.1.2.1. Expletive cognate subject

A number of verbs mentioned in section 14.1.1 as well as some other verbs allow an expletive Nominative subject cognate with the verb. These verbs are:
tigde tigde-
bono bono-
lada lada-
agdi agdi-
käŋgu kängu-
ine ine-
tamña: tamña:-na-
ima: ima:-na-
edi edi-ne-

```
'rain'
'hail'
'rain with snow'
'clap (of thunder)'
'be slippery'
'dawn'
'fog'
'snow'
'wind'
```

The expletive subject can be modified by an adjective (995a) or another noun (995b).
(995)
a. Bono sagdä- $\eta k u$ bono-ini. hail large-PL hail-3SG
'Large hail is falling.' (K 181)
b. Uligdig'a labuga ima: ima:-na-ini.
beautiful snowflake snow snow-V-3SG
'Snow is falling in beautiful snowflakes.'
Other subjectless verbs (that is, most verbs derived through suffixation) do not take an expletive subject.

### 14.1.2.2. Expletive $b a$ :

The following verbs take the expletive subject $b a$ : 'place, nature, God' (more seldom in the $3^{\text {rd }}$ person possessive form ba:-ni <place-3SG>). Most of them describe calendar and natural events. For example:
ba: bolo-gi-
ba: dogbo-gi-li-
ba: ìeñi-li-
ba: ine-li-
ba: gäwana-
ba: maga-
'come (of autumn)'
'come (of night)'
'get cold'
'dawn'
'dawn'
'bad weather, storm'

Verbs that allow the expletive subject ba: cannot have an expletive cognate subject and vice versa, but most verbs from both groups also follow pattern 14.1.1, that is, form subjectless constructions.

### 14.2. One-argument verbs (A/NOM)

Apart from the direct voice construction, one-argument intransitive verbs allow the Agentless passive (16.1.2) and Causative (16.1.3), some of them also undergo reciprocalization (16.1.5). However, the regular Passive is not possible.

The standard valence pattern for one-argument verbs is A/NOM, that is, the agent corresponds to the grammatical relation of the subject which has the Nominative form (on the definition and syntactic properties of the subject see 15.1).
(997) yene-/ŋeni-
'walk, leave'
iñi-
etete-
une-
'laugh'
'work'
'melt'

Many verbs derived from nouns and adjectives by means of interclass derivation suffixes (8.1.1) take only one argument, as do most $b$ ' $a$ - compounds (8.3). Some sentence examples are:
a. In'ei jene-ini.
dog go-3SG
'The dog is walking.'
b. N'aula-ziga gusi:-ti. child-PL play-3PL
'Children are playing.'
c. Bi ñamai-zi teti-gi-zene-i.
me warm-INST dress-REP-FUT-1SG
'I will dress warmly.'
d. Ei mo: anana degde:-ni.
this tree long.ago burn.PAST-3SG
'This tree burnt a long time ago.'
e. Bi nala- $i$ auli-e-ni.
me hand-1SG swell-PAST-3SG
'My hand has swollen.'

### 14.3. Two-argument verbs

Two-argument verbs can be transitive and intransitive. In the former case their second (non-agent) argument corresponds to the semantic role of the patient and to the syntactic role of the direct object (on the definition and syntactic properties of the direct object see 15.1.2). The transitive verb allows all the voice constructions described in section 16.1: Passive and Agentless passive, Causative, and normally also Decausative and Reciprocal (the latter two are restricted by the semantics of the verb). The second argument taken by intransitive two-argument verbs is not a patient and cannot be identified as a direct object. Intransitive verbs do not allow the Passive, but form the Agentless Passive, Causative, and sometimes Reciprocal.

### 14.3.1. A/NOM, P/ACC

14.3.1.1. Verbs with the theme argument

This is the typical pattern for two-argument transitive verbs with the theme argument such as the following:

| (999) | nodo- | 'lose' | ñientile- | 'open' |
| :---: | :---: | :---: | :---: | :---: |
|  | taulagi- | 'get' | belesi- | 'help' |
|  | gazi- | 'reach' | ise- | 'see' |
|  | dau- | 'cross (the river)' | ceze- | 'believe' |
|  | umi- | 'drink' | cenele- | 'weight' |
|  | ete- | 'cost' | säkpa b'a- | 'bring profit to' |

Following are examples of sentences with direct voice:

| (1000) a. | Bi xunazi: min-e-we $\quad$ e-ini | belesi. |
| ---: | :--- | ---: | :--- | :--- |
|  | me sister.1SG me-0-ACC NEG-3SG | help |

d. $\tilde{N} o$ :

| omo | tanu | tieze-we |
| :--- | :--- | :--- |
| one | hundred | ruble-ACC | ete-ini.

cost-3SG
'Sable skin costs a hundred rubles.'
$\begin{array}{llll}\text { e. } & \text { Bi puta-i } & \text { ila } & \text { kile-we } \\ \text { me bag-1SG } & \text { three } & \text { kilogram-ACC }\end{array}$
'My bag weighs three kilograms.'
f. Aziga xoŋto ni:-we säkpa b'a-ini, girl another man-ACC profitable get-3SG b'ata-ma boy-ADJ child father-REF fire-ACC-3SG ila-gi:-ni. kindle-REP-3SG
'A daughter benefits other people, a son keeps up the fire in his father's house.'

A further list presents transitive two-argument verbs for which the transitive character is not obvious cross-linguistically. In these the second argument often corresponds to the semantic role of location or goal (including some kind of mental goal), stimulus or cause of emotions. In Udihe, however, it is encoded as a direct object.

| (1001) buji- | 'sneak up to' | taf'äsi- | 'look after' |
| :---: | :---: | :---: | :---: |
| agda- | 'be happy about' | biulese- | 'be proud of' |
| egze- | 'understand, be an expert in' | wakca- | 'hunt for' |
| muñali- | 'feel sorry for' | tukti- | 'climb' |
| ma:- | 'scoop water out' | $z a: g i-$ | 'revenge |
|  |  |  | upon' |
| etete- | 'work as' | sebune- | 'be interested |

Sentence examples:


### 14.3.1.2. Verbs of speech and thought

A few verbs take the Accusative direct object argument expressing the topic of speech, thought or writing ('about').

| (1003) dian- | 'tell about' | teluyu- | 'tell about' |
| ---: | :--- | :--- | :--- |
| muisi- | 'think about' | xoizuyule- | 'gossip about' |
| jexe- | 'sing about', | t'osi- | 'dream about' |
| oño- | 'write about' |  |  |

For example:
a. Ma:ma teluru-si:-ni od'o mafa-wa.

grandmother | story-V-3SG |
| :--- |
| grandfather old.man-ACC |

'Grandmother is telling about a tiger.'
b. Nadga: getu-we gazieta oño-zoŋo-ni. reach.PP PL-ACC newspaper write-FUT-3SG 'They will write in the newspaper about those who reached (the target).'
14.3.1.3. Verbs of appearance and creation

The following are the transitive verbs of appearance and creation:
gada- 'buy',
ule- 'dig'
zawa- 'take'
gele- 'ask'
wo:- 'make, build, sew'
uli- 'sew'
olokto- 'cook'
$b^{\prime} a$ - 'find, get'
uli- 'sew'

Unlike other transitive verbs, these verbs allow a Destinative construction (16.2.2) and object depictives (19.6.2.2). In the former the second argument is encoded as the Destinative object.

### 14.3.1.4. Verbs that govern the deverbal noun

The following verbs
(1006) zafanda-aju-
ča:la-
ise-u-
'begin
'like'
'like, want, agree' 'show'
metu-
alamasi-
galu-
'finish' 'repeat' 'hate'
are combined with the abstract deverbal nouns derived through conversion (5.2.1). Such nouns express the secondary predication in the same-subject situation (1007); in a different-subject situation the corresponding complement is expressed by the participial subordinate clause (Chapter 20).

$$
\begin{array}{llllll}
\text { (1007) a. } & \begin{array}{lllll}
\text { Nua-ti } & \text { teluyu-we } \\
\text { he-3PL story-ACC }
\end{array} & \begin{array}{l}
\text { alamasi-e-ti. } \\
\text { repeat-PAST-3PL }
\end{array} & \\
& \text { 'They repeated the story.' } & & \\
\text { b. } & \text { Bi xunazi: } & \text { zima-wa } & \text { aju:-ini. } & \\
& \text { me sister.1SG visit-ACC } & \text { like-3SG } & \\
& \text { 'My sister likes visits.' } & & & \\
\text { c. } & \text { Lauzi } & \text { ei-ni } & \text { ca:la } & \text { Amerika } & \text { bede } \\
& \text { worker } & \text { NEG-3SG } & \text { want } & \text { America } & \text { like } \\
& \text { bagdi-we. } & & & & \\
& \text { live-ACC } & & & \\
& \text { 'The worker does not want life like in America.' }
\end{array}
$$

These verbs may also take a regular nominal object.

```
(1008)Ei keje-we alamasi-e-ni. this word-3SG repeat-PAST-3SG
'He repeated this word.'
```


### 14.3.2. A/NOM, B/LAT

These intransitive verbs having the semantic role of recipient as defined above (that is, including benefactive and other goal-like valences) and also that of stimulus. They take the Lative argument.


Some sentence examples are:
he-3PL get.accustomed-PAST-3PL this
'They got accustomed to this dog.'


### 14.3.3. A/NOM, L/LAT (ADV)

14.3.3.1. Verbs with the directional argument

These are Intransitive verbs for which a non-subject argument is expressed by a nominal in the Lative case, a Lative postpositional phrase, or an adverb, and corresponds to the semantic role of location. The argument has a directional meaning.

| (1011) yene-/yeni- | 'go to' | tunčile- | 'jump at' |
| :---: | :---: | :---: | :---: |
| xuli- | 'go, ride to' | tungale- | 'run against' |
| agda- | 'moor' | akanda- | 'lean against' |
| eme- | 'come' | emegi- | 'return' |
| iga:ma- | 'lean against' | tuøkila- | 'strike oneself against' |
| lagban- | 'get stuck to' | lukpe- | 'prick oneself on' |
| nu:- | 'go out to' | zima- | 'to go with a |
| tukti- | 'climb' |  | visit' |

For example:

| (1012) a. | B'ata <br> boy$\quad$ kepte-tigi wall-LAT | akanda-mi lean-INF |
| :--- | :--- | :--- | :--- | te-ini.

b. $\quad N i$
who
tukti-e-ni
climb-PAST-3SG
$e i$ this
we:-tigi?
mountain-LAT
'Who has climbed this mountain?'

```
c. Zaŋä-ziga Moskwa-tigi jene-zene-ti.
    boss-PL Moscow-LAT go-FUT-3PL
    'The bosses will go to Moscow.'
d. Bu gugda kektime-tigi agda:-mu
    we tall bank-LAT moor.PAST-1PL.EX
    'We moored to the high bank.'
e. Tuxi mo: texi-tigi-ni
    sledge tree stump-LAT-3SG
    tuŋkila:-ni
    run.against.PAST-3SG
    'The sledge ran against a stump'.
\(\begin{array}{llll}\text { f. } & \begin{array}{ll}\text { Bi } & \text { ana- } i\end{array} & \begin{array}{l}\text { nifuga-zi-ni } \\ \text { me }\end{array} & \text { boat-1SG }\end{array} \quad \begin{aligned} & \text { kektime-tigi }\end{aligned}\)
    tuŋkila-way-ki-ni.
    strike-CAUS-PAST-3SG
    'My boat struck the riverbank with its prow.'
```

g. Exin-tigi:
$\begin{array}{ll}\text { elder.sister-LAT.REF } & \text { visit.PAST-1SG } \\ \text { 'I visited my elder sister.' } & \end{array}$
'I visited my elder sister.'
zima:-mi.
kektime-tigi bank-LAT

```
tuŋkila-wan-ki-ni.
strike-CAUS-PAST-3SG
'My boat struck the riverbank with its prow.'
```

.

### 14.3.3.2. Location vs. goal

The semantic difference between the locational argument L/LAT taken by the verbs of this group and the benefactive-like argument B/LAT of the verbs from the previous group (14.3.2) is not always clear-cut. The formal criterion for differentiating them is reflected in the valence schemas: for the verbs discussed in this section, the second (locational) argument can be expressed by the postpositional construction or an adverb, while for the verbs in 14.3 .2 it normally cannot. For the list of Lative postpositions see 10.2 .1, for the list of Lative adverbs see 10.1 .1 . Examples of postpositional phrases as a second argument are:
(1013) a.

| Zueze | kä:-tigi-ni |
| :--- | :--- |
| table | side-LAT-3SG |

nene:-ni.
go.PAST-3SG
yene:-ni.
b. Uli bagä:-za-tigi-ni
go.PAST-3SG
'He went to the other side of the river.'
$\begin{array}{ll}\text { c. Ceradaka } & \begin{array}{l}\text { xo:n-tigi-ni } \\ \text { attic }\end{array} \\ & \text { top-LAT-3SG }\end{array}$
tukti:-ni.
climb-3SG
d. Bi zueze ogdo-tigi-ni
me table side-LAT-3SG
iga:ma:-mi.
'I leaned against the table.'
lean.PAST-3SG

### 14.3.4. A/NOM, CIR/INST

A/NOM, CIR/INST intransitive verbs take the Instrumental argument with the semantic role conventionally called the circumstance. In practice, the semantic role of this argument varies greatly.

### 14.3.4.1. Non-symmetrical verbs

For the following group of verbs the semantic role of the Instrumental argument is something like theme, or stimulus of emotions.

| (1014) ča:la- <br> mamasala- <br> azana- | 'marry (of a man)' | diasi- <br> iñe- | 'talk to' |
| :---: | :--- | :--- | :--- |
| elu- | 'be embarrassed about' | 'laugh at'- |  |

Sentence examples:


| f. | Ei teu $\quad$ kukpu-zi <br> this all bug-INST | gegbisi:-ni. <br> call-3SG |
| :--- | :--- | :--- |
| 'These are called bugs.' |  |  |

The verb wo:- in the meaning 'become' takes a second argument that is expressed by the adjective phrase in the Instrumental, cf.:
(1016)
$\begin{array}{ll}\text { Bi azig'a-i } & \text { alagdig'a-zi } \\ \text { me daughter- } 1 \mathrm{SG} & \text { beautiful-INST } \\ \text { 'My daughter is becoming beautiful.' }\end{array}$
wo-ini.
make-3SG

### 14.3.4.2. Symmetrical verbs

Verbs with an Instrumental argument may express a naturally reciprocal situation in which both participants are involved in the same way and perform the same action on each other. Note that such verbs are not formally reciprocal, that is, they do not undergo morphological reciprocalization with the suffix -masi- (8.2.1.1) and do not participate in the Reciprocal construction (16.1.5). Their meaning is inherently reciprocal since it is not possible to conceive of the situation they describe without the two participants acting symmetrically. Some examples of such verbs are:

```
(1017) anda-ta- 'be friends with'
    w'ali- 'fight with'
    b'agdi- 'meet with' diasi-
    xefisi- 'discuss with'
masoni- 'fight with
zuza-
'argue with'
diasi- 'talk to'
mamasa-ta-
```

'fight with
'argue with' 'talk to'
'live together with' (SK 541)

In a sentence such verbs are normally in the Singular.

```
(1018)a. Bi Iwana-zi masoni-mi.
    me Ivan-INST fight-1SG
    'I am fighting with Ivan.'
```

    b. Nua-ni ei b'ata-zi w'ali-e-ni.
    he-3SG this boy-INST fight-PAST-3SG
    'He was fighting with this boy.'
    Symmetrical verbs allow several alternative ways of expressing the second argument, and these are not related to voice transformations. They are described in 16.2.3.

### 14.3.4.3. Verbs with the instrumental argument

Another type of circumstance argument expressed by the Instrumental case has an instrumental or instrumental-like meaning, as is the case for the following verbs:

| (1019) daga- | 'burn oneself with' |
| :---: | :--- |
| unugu-le- | 'be ill with' |
| neme(gi)- | 'cover oneself with' |
| akpisi- | 'wipe oneself' |
| dian- | 'speak (a language)' |
| sule- | 'be ill with' |
| zelige-si- | 'play the traditional game zelige' |

Sentence examples:

| a. | Nua-ni | giripa-zi |
| :--- | :--- | :--- | | unugu-le-ini. |
| :--- |
| he-3SG |
| flu-INST |$\quad$ ilness-V-3SG

'He has the flu.'
b. Nua-ni udie keje-zi-ni he-3SG Udihe language-INST-3SG speak-0-3SG 'He speaks Udihe.'
c. Nua-ni ketu tuge nemegi-e-ni he-3SG very quick cover-PAST-3SG men-e xula-zi:. REF-0 blanket-INST.REF
'He covered himself with his blanket very quickly.'

### 14.3.5. A/NOM, L/ABL (ADV)

These are Intransitive verbs with a location-type Ablative argument that expresses movement away from the location:
(1021) tiyme-
$e u(g i)$ -
'fell out'
'go down from'
susa-
nene-/クeni-
'escape from' 'go from'

Sentence examples:
(1022) a. Bi kuti-digi susa:-mi.
me tiger-ABL escape.PAST-1SG
'I escaped from the tiger.'
b. Wakca-i ni: mo:-digi-ni
hunt-PRP man tree-ABL-3SG
eu-gi-e-ni.
climb.down-REP-PAST-3SG
'The hunter climbed down the tree.'

Examples of arguments expressed by the postpositional phrase:
(1023) a.
Zugdi
ogdo-digi-ni
house side-ABL-3SG
yene-ini.
go-3SG
'He is walking from the house.'
b. Čeradaka xo:n-digi-ni attic top-ABL-3SG $e u$-gi:-ni.
'He is going down from the attic'.

### 14.3.6. A/NOM, L/LOC (ADV)

Intransitive verbs with the Locative argument express different types of location.
(1024) bagdi-
tigi-
i:n-
nagda-
iga:ma-
u:na-
'live in'
'fit in'
'come to, reach'
'get in, reach'
'lean against'
'sit in (a boat), mount (a horse)'
etete- 'work at'
jene- 'reach'
eme- 'come to, enter'
tuge- 'lean against'
eku- 'stay with'

Sentence examples:

f. Zugdi-le
$i: \eta-k i-n i$. house-LOC come-PAST-3SG 'He entered the house.'

Some examples of postpositional arguments are:
a. Zueze
we:-le-ni table top-LOC-3SG tuge-ini.
'He leaned against the table.'
$\begin{array}{lll}\text { b. } \begin{array}{ll}\text { Zugdi } & \text { ogdo-lo-ni } \\ \text { house } & \text { side-LOC-3SG }\end{array} & \begin{array}{l}\text { iga:ma-ini. } \\ \text { lean-3SG }\end{array}\end{array}$
'He is leaning against the house.'
c. Bagä:-za e:-le-ni bagdi:-ni. other-N side-LOC-3SG live-3SG
'He lives on the other side (of the river).'
Some of these verbs, such as bagdi- 'live' or etete- 'work', also allow a Dative argument with a locational meaning, cf.:

| (1027) Bi enimi $\quad$ kluba-du | etete-ini. |  |
| :---: | :---: | :--- |
| me mum | club-DAT | work-3SG |
| 'My mum works in the club.' |  |  |

The type of the argument (Dative or Locative) is determined by the noun phrase itself (see 4.2.2.5). However, for some verbs the Dative is not interchangeable with the Locative. For example, the verbs mamasa-la- 'marry' (of a woman), nagda- 'get into, reach' and i:n- 'enter' always require a Locative argument.

### 14.3.7. A/NOM, B/DAT

These are the intransitive verbs for which the benefactive or goal argument can be expressed only by the Dative:


Sentence examples are as follows.

| (1029) a. | Si-Säna tene ketu ge: baita | bi:-ni |
| :--- | :--- | :--- | :--- | :--- |
|  | Si San CONT very bad business | be-3SG |
|  | zo:クku-ziga-du. |  |

### 14.3.8. A/NOM, L/PROL (ADV)

This is a rare valence pattern of intransitive verbs, with the locational argument expressed by the Prolative or the Prolative postpositional phrase or adverb:
(1030) i:n- 'come to, reach' we:li- 'cross (a mountain)'.

Sentence examples:

| (1031)a. | Bi Iwana zugdi-li-ni | $i: \eta-k i-m i$. |
| :--- | :--- | :--- | :--- |
|  | me Ivan house-PROL-3SG | reach-PAST-1SG |
|  | 'I reached Ivan's house.' |  |
| b. | $B u$ we:-li-ni | we:-li-e-mu. |
|  | we mountain-PROL-3SG mountain-V-PAST-IPL.EX |  |
|  | 'We crossed the mountain to the other side.' |  |

### 14.3.9. A/NOM, E/NOM

For the following two verbs the second argument functions as a secondary predicate and takes the Nominative case. These verbs are:
(1032) bagdi- 'grow into' ju:- 'grow into'

Examples are:

```
(1033)a. Seutige ku\etaka bagdi-ze\etae-ni.
    nut cedar grow-FUT-3SG
    'A nut will grow into a cedar.'
    b. yič'a b'ata-digi sagdi jegdije
    small boy-ABL big hero
    jewu-o-ni.
    grow-PAST-3SG
    'A small boy grew up into a big hero.' (SK 667)
```


### 14.4. Three-argument verbs

All three-argument verbs found in our material are transitive, that is, at least one of their arguments is a patient/theme that corresponds to the grammatical relation of the direct object (15.1.2) and is expressed by the Accusative in the direct voice construction. Consequently, these verbs permit all the voice transformations described in section 16.1. Apart from the patient, these verbs also take an agent argument that corresponds to the subject and a third argument with different semantic roles and a different formal marking.

### 14.4.1. A/NOM, P/ACC, B/DAT

### 14.4.1.1. Verbs with the benefactive argument

These are three-argument verbs of transfer of things or information with an agent, patient, and recipient that correspond to the Dative noun phrase:
(1034) bu:-
nandasi-
ge:ne- 'bring, take, fetch'
to:li-
muñali-

| 'give' | numnisi- | 'explain' |
| :--- | :--- | :--- |
| 'owe' | gazi- | 'bring' |
| 'bring, take, fetch' | dalusi- | 'feed' |
| 'serve (food)' |  |  |
| 'feel sorry about something for somebody' |  |  |

Sentence examples:
(1035) a. Bi sin-du xeleba-wa bu-o:-mi.
me you-DAT bread-ACC give-PAST-1SG
'I gave you (some) bread.'
b. Mafa xokto-wo aziga-ziga-du
old.man road-ACC girl-PL-DAT
ñumnisi-e-ni.
explain-PAST-3SG
'The old man explained the way to the girls.'
c. Min-du ila tieze-we najdasa-ini.
me-DAT three ruble-ACC owe-3SG
'He owes me three rubles.'
d. Bu kusige-fi omo mafasa-du
we knife-1PL.EX one old.man-DAT
bu-o:-mu.
give-PAST-1PL.EX
'We gave our knife to an old man.'

```
e. Mamaka mafasa-du gampa-wa to:li:-ni.
old.woman old.man-DAT porridge-ACC serve-3SG
'The old woman is serving porridge to the old man.'
f. Bi in'ei-du zeu xule-pte:-me-ni
me dog-DAT food remain-DEC.PP-ACC-3SG dalusi-mi.
feed-1SG
'I feed the dog with the remainder of the food.'
```

14.4.1.2. Verbs with the non-benefactive argument

The following verbs have the same valence pattern, however, the third argument can hardly be described as a benefactive; for the verb muisi- it is a copredicative element, while for the verbs obolo- and wo:- it is a kind of goal or essive.
(1036) muisi-
wo:- $\quad$ 'turn into' obo-lo- 'divide (into parts)'

Sentence examples:

```
(1037)a. Eni\etae obo-lo:-ni xeleba-wa ila
    mother part-V.PAST-3SG bread-ACC three
        obo-du.
        part-DAT
    'The mother divided the bread into three pieces.'
    b. Bi Šarika-wa in'ei aja-du muisi-mi.
        me Sharik-ACC dog good-DAT consider-1SG
        'I consider Sharik a good dog.'
\begin{tabular}{lllll} 
c. \begin{tabular}{llll} 
Belie & tene & dogbo ineni & na:-wa
\end{tabular} & eilisi:-ni \\
fairy & CONT & night day & skin-ACC & process-3SG \\
tege-du & & unta-du & wo-si:-ni. & \\
& gown-DAT & boot-DAT & make-MM-3SG &
\end{tabular}
'And the fairy processes the skins day and night and makes them into clothes and boots.' (K 30)
```

The third argument of the verb muisi- may correspond to the (substantivized) adjective. It is encoded by the Nominative form of the adjective followed by the evidential particle gumu (12.1.2.1). Such constructions seem to have appeared under the interfering influence of constructions with the verb muisiand the finite subordinate clause followed by the evidential particle (18.3.1.2), and here are not treated as a separate valence type. Alternatively, the third
argument may be expressed by an adjective in the Dative according to the general pattern, as in (1039).

a. | Nua-ni min-e-we nel'euse |
| :--- |
| he-3SG me-0-ACC coward | EV

muisi:-ni.
think-3SG
'He thinks of me as a coward.'

| b. | Teu uta-wa | muisi:-ti | gulälini | gumu. |
| :---: | :---: | :---: | :---: | :---: |
|  | all this-ACC | think-3PL | crazy | EV | 'Everybody thinks he is crazy.'


| (1039) Min-e-we $\quad$ p'aga-du | muisi:-ni. |
| :---: | :---: |
| me-0-ACC | stupid-DAT |
| 'He thinks I am stupid.' |  |

### 14.4.2. A/NOM, P/ACC, B/ACC

Only three verbs are found that exhibit this pattern with both non-subject arguments corresponding to the Accusative noun phrase:

| (1040) $\tilde{\text { numnisi- }}$ | 'teach something to somebody' |
| :---: | :--- |
| teti(-gi)- | 'dress, put something (clothes) on somebody' |
| (w)o:- | 'make, transform something into something' |
| igisi- | 'make somebody grow into somebody' |

Sentence examples:


| d. Uti lemekuliga$\quad$du-we-ni <br> that lard <br> snake | shape-ACC-3SG | o:-iti. |
| :--- | :--- | :--- |
| 'They transform that lard into the shape of a snake.' (SK 497) |  |  |

The verb tatusi- 'teach something to somebody' exhibits a similar pattern, but the Patient argument must be expressed either by the action nominal derived through conversion of the verbal stem (5.2.1) or by the impersonal Accusative form of the Present participle.

```
(1042)A:nta-ma aziga-wa tatusi-e-ti
    woman-ADJ girl-ACC teach-PAST-3PL
    oño-wa o:-i-we, \tilde{a}a:-wa eili-we,
    ornament-ACC make-PRP-ACC skin-ACC process-ACC
    sita-wa igi-si-we, siete-we
    child-ACC feed-IM-ACC thread-ACC
    tompo-i-we.
    twist-PRP-ACC
    'They used to teach girls to make ornaments, to process skins, to bring
    up children, and to twist threads.' (SKX 300)
```

The pattern presented here is the only one possible for the verbs in question and thus it differs from the double object constructions described in 16.2.1, which always allow an alternative expression of the arguments.

### 14.4.3. A/NOM, P/ACC, B/LAT

There are three argument verbs for which the third argument has a benefactive role and is expressed by the Lative noun phrase:
(1043) teluyu-si
gele-
'tell'
'ask from'
gun-
dian-
'ask from'
'feel sorry for something to somebody'

Sentence examples:

| (1044) a. | Enine sita-tigi-ni <br> mother child-LAT-3SG nimanku-we tale-ACC | telunu-si--ni. |
| :--- | :--- | :--- | :--- | :--- |
| story-V-3SG |  |  |

$\begin{array}{llcc}\text { c. } & \text { Kesi } & \text { gele-gi:-ti } & \text { Xutakta-tigi. } \\ \text { luck } & \text { ask-REP-3PL } & \text { Xutakta-LAT } \\ & \text { 'They ask again for luck from (the star) Xutakta.' (SKX 306) }\end{array}$
The second argument which in examples (1044) has the patient/theme role may also be expressed by the complement subordinate clause described in more detail in Chapter 20.

### 14.4.4. A/NOM, P/ACC, L/LAT (ADV)

This is a transitive verb pattern in which the third argument has a location role and is expressed by the Lative noun phrase, Lative postpositional phrase, or adverb:
(1045) nede- 'put'
kungede- 'pour'
neugi-
cudi-
'take, carry'
'pour'

Sentence examples are given in (1046). In (1046b) the third argument is expressed by the postpositional phrase with the Lative meaning.

b. Bi moxo-wo dieneze-tigi nede:-mi.
me cup-ACC left-LAT put.PAST-3SG
'I put the cup to the left.'

### 14.4.5. A/NOM, P/ACC, CIR/INST

This is a three-argument verb pattern where the third argument is expressed by the Instrumental noun phrase having the range of circumstance or instrument-like meanings. It occurs with the following verbs.
(1047) wakca- 'shoot at with'
da:wan- 'infect with'
gegbisi- 'name, call'
dakpi- 'cover with' tikpene- 'nail up'
tama- 'pay with for'
xua- 'cut with'
züile- 'saw'
mäundala- 'shot (with a gun)'
titimasi- 'argue with somebody about something'

For the verb bodo- 'consider' the third (Instrumental) argument can be expressed by an adjective. Sentence examples are:

```
(1048) a. Kolo n'aula-wa giripa-zi da:wa\eta-ki-ni.
    Kolo child-ACC flu-INST infect-PAST-3SG
    'Kolo infected a child with flu.'
    b. Bi men-e sita-i Maša-zi gegbisi-e-mi.
    me REF-0 child-REF Masha-INST name-PAST-1SG
    'I named my child Masha.'
c. Aziga-wa Roza-zi gegbi-e-ti.
    girl-ACC Roza-INST name-PAST-3PL
    'The (new-born) girl is named Roza.'
d. Zugdi bua-digi sagdi-zi- bodo-i j'eu?
    house place-ABL large-INST consider-2SG what
    'You consider the house larger than the world, don't you?'
    (Schneider 1937: 70)
```


### 14.4.6. A/NOM, P/ACC, L/ABL (ADV)

This is a three-argument pattern in which the third argument is locational and is expressed by the Ablative noun phrase, Ablative postpositional phrase, or Ablative adverb. It occurs with the following verbs:
(1049) agbugi
'pull out'
ga:gi- 'take out'
zawa-
'take from' uisigi- 'rescue from'

Sentence examples are in (1050). Sentence (1050c) is an example of an Ablative adverb as the third argument.

```
(1050)a. Bi od'o-i
    me grandfather-1SG
    agbugi-e-ni.
    pull.out-PAST-3SG
    'My grandfather pulled the boy out of the water.'
    b. Ñ'ädiga min-digi suese-we zawa:-ni.
    Nadiga me-ABL axe-ACC take.PAST-3SG
    'Nadiga took an axe from me.'
    c. Bi i\etame-we do-nigi
    me needle-ACC inside-ABL pull.out-PAST-1SG
    'I pulled the needle from inside.'
```


### 14.4.7. A/NOM, P/ACC, L/LOC (ADV)

A three-argument pattern in which the third argument is locational and is expressed by the Locative noun phrase, the Locative postpositional phrase, or the Locative adverb is typical of the verbs below.

| (1051) zo:mi- | 'steal from' |
| :---: | :--- |
| xauntasi- | 'ask from' |
| xapti- | 'complain about to' |
| ti:- | 'take away from' |
| nede- | 'put on' |
| igamusi- | 'lean something against' |
| ga:gi- | 'take from somebody/something' |
| gele- | 'ask something from somebody' |

Sentence examples:
(1052)

|  | Iwana | asi-e-ni |  | min-dule Petia-wa. |
| :---: | :---: | :---: | :---: | :---: |
|  |  | ask-PAST-3S |  | Pete-ACC |
|  | 'Ivan asked me about Pete.' |  |  |  |
| b. | In'ei dog | mun-du <br> we-DAT | sugzä:-wa <br> fish-ACC | $\begin{aligned} & \text { zomi-e-ni. } \\ & \text { steal-PAST-3SG } \end{aligned}$ |
| 'The dog stole the fish from us.' |  |  |  |  |
| c. | Nua-ni he-3SG | mendele always | zaŋä-la <br> boss-LOC | xaptisi:-ni complain-3SG |
|  | in'ei-we |  |  |  |
|  | 'He always complains to the boss about their dog.' |  |  |  |
| d. | Käsa | Pakula-la | pauza-wa | $t i:-n i$. |
|  | eagle | Pakula-LOC | goat-ACC | take.away-3SG |
|  |  |  |  |  |

Examples with postpositional phrases (1053) and adverbs (1054) are:
(1053)a. Bi zueze we:-le-ni (or: w'efe)
me table top-LOC-3SG (or: top-ACC)
kusige-we nede:-mi.
knife-ACC put.PAST-1SG
'I put the knife on the table.'
$\begin{array}{llll}\text { b. Caya ge:fe mo:-wo } & \text { igamusi:-ni. } \\ \text { wall against tree-ACC } & \text { lean-3SG } \\ \text { 'He leaned the logs against the wall.' }\end{array}$
(1054) J'e-we-de what-ACC-FOC
nede-ini gugda-zi. put-3SG tall-INST
'He is putting something more up.'

### 14.4.8. A/NOM, P/ACC, E/NOM

Two verbs are found which correspond to this pattern:
(1055) gun- 'call’ gegbi- 'call'

These verbs take three arguments: the agent is encoded by the Nominative, the patient (theme) is expressed by the Accusative, and the copredicative argument (conventionally referred to as essive) is also expressed by the Nominative. Sentence examples are:

| (1056) a. | Bi ei | n'aula-wa | Iwana anda-ni |
| :--- | :--- | :--- | :--- | :--- |
|  | me this child-ACC | Ivan friend-3SG |  |
|  | gun-e-mi. |  |  |
|  |  |  |  |
|  | say- $0-1 S G$ |  |  |
|  | 'I call this fellow Ivan's friend.' |  |  |

b. Ei xoto-wo ni: Xabarowska gun-e-iti. this city-ACC man Khabarovsk say-0-3PL 'People call this city Khabarovsk.'
c. Ei bui-we giuse gun-e-iti. this animal-ACC roe call-0-3PL
'They call this animal roe.'
The verbs gun-'call' and gegbi- 'call' can co-occur within one sentence, as in (1057).

| (1057)Ute bi:-we <br> that be.PRP-ACC$\quad$gegbisi--ti <br> call-3PL | Soykoi <br> Sonkoi | gun-e-iti. |
| :---: | :---: | :---: | :---: |
| say-0-3PL |  |  |

## Chapter 15 Grammatical relations

This chapter presents the major characteristics of Udihe syntax in terms of grammatical relations. Grammatical relations will be identified here as syntactic elements that exhibit certain grammatical properties. These properties concern, first, the form and position of the corresponding element in the clause, and second, its ability to determine the form and the position of other elements within the same clause or clause-externally. In this chapter, however, the position of the elements within the clause is not addressed. Word order in Udihe is conditioned by information structure rather than by grammatical relations and is dealt with in the chapter on information structure (Chapter 24).

Section 15.1 focuses on the most important grammatical relation, the subject. Section 15.2. deals with the direct object. Other arguments are briefly mentioned in 15.3 but are not dealt with in detail. They are described in Chapter 14 according to the valence patterns of the verbs. On the other hand, in section 15.4 we present a detailed description of clausal adjuncts according to their semantic types. Operations that alternate grammatical relations within the clause are addressed in Chapter 16.

### 15.1. Subject

In Udihe one noun phrase per clause can be identified as the subject. The grammatical properties that characterize the subject are summarized in 15.1.1. Section 15.1.2 deals with the subject of the Imperative clause. In section 15.1.3 we show that some subject properties are not exclusively typical of the subject but in fact characterize certain other elements, called "subjectoids". Finally, section 15.4 addresses subjectless clauses.

### 15.1.1. Subject properties

The Nominative case form (15.1.1.1) and the ability to trigger verbal agreement (15.1.1.2) unambiguously identify certain elements as subjects. These elements will be called the "Nominative subject" and be treated as the prototypical subject in Udihe. In subsequent sections we show that the Nominative subject is characterized by a cluster of other syntactic properties suggesting that the notion of subject is indeed relevant for Udihe grammar.

### 15.1.1.1. Nominative case

The following elements are encoded as the Nominative noun phrase:
(i) the first argument of the non-passive matrix clause (Chapter 14) which corresponds to the only argument of the intransitive verb or the agent argument of the transitive verb;
(ii) the same argument in the subordinate clauses (Chapters 19-21);
(iii) the pronominal patient/theme argument of the Passive constructions (16.1.1); note that the lexical patient/theme of the Passive is marked with the Accusative case and does not exhibit other subject properties (15.2.3, 16.1.1.2.2);
(iv) the only argument of most copular constructions (17.2.2).

As shown in Chapter 14, most verbs take the Nominative subject, the only exceptions being null-argument verbs (14.1). The Nominative noun phrase is absent in Agentless Passive sentences (16.1.2), in Passive sentences where the patient/theme is a lexical noun phrase (16.1.1.2.2), as well as in agentless non-passive sentences (16.2.5).

### 15.1.1.2. Agreement

The Nominative noun phrases listed in 15.1.1.1 all trigger agreement either on the matrix verb or on the subordinate non-finite verb within the subordinate clause. Subject agreement affixes are presented in 7.2 . Although subject agreement in person is obligatory (a few exceptions are presented in 15.1.1.2.1), agreement in number may be absent (15.1.1.2.2). Non-Nominative arguments never trigger verbal agreement and are not encoded in the verbal form.

### 15.1.1.2.1. Suppression of agreement

Subject agreement is suppressed in the following cases:
(i) In the negative generalized postnominal relative clause (23.2.1.6.4).
(ii) In the impersonal forms of the Necessitative (7.5.3.2).
(iii) In personal infinitival sentential subject subordinate clauses (Chapters 20 and 21).
(iv) In Irrealis Conditional Converbs (7.6.2.4.2).
(v) In most Habitual clauses (7.4.2).

In cases (i) through (iii) the verb exhibits the default $3^{\text {rd }}$ person Singular agreement, independent of the person and number of the Nominative noun phrase. In (iv) and (v) it is not inflected for person and number at all. The status of the Nominative noun phrase which does not trigger agreement within the clause, however, is not entirely clear. In particular it is not known whether it
exhibits all subject properties, as identified in this section. It cannot be coreferentially deleted and must be overtly present in the clause, unlike the regular Nominative subject. Yet, it can trigger reflexivization in the same way as subjects (15.1.1.4), as shown in the following example with the impersonal Necessitative.

```
(1058) Bi 'ana-i anana aisi-gi-u-zeye
    me boat-REF long.ago
                                    mend-REP-PAS-FP
    bi-si-ni.
    be-PAST-3SG
    'I had to repair my boat long ago.'
```


### 15.1.1.2.2. Number agreement

Number agreement is motivated semantically rather than by formal considerations. As was discussed in 4.2.1, morphological expression of plurality is not obligatory. If the subject has multiple referents but is morphologically Singular, plurality is typically encoded by Plural agreement affixes in the verbal form, so in this case agreement in number is formally suppressed.

```
(1059)a. I:mi e-si: dogdi, gun-e-ini,
    why NEG-PAST.2SG hear say-0-3SG
    uti c'asi:-we-ti.
    [that tickle.PRP-ACC-3PL]
    'She said: why didn't you hear them tickling (her).'
    b. \tilde{Namai ba:-du wakca-i ni: slono-lo}
    warm place-DAT hunt-PRP man elephant-LOC
    u:\eta-ka-si kuti-we wakca-iti.
    sit-PERF-PC.SS tiger-ACC hunt-3PL
    'In warm countries the hunters sitting on elephants hunt for tigers.'
    (Čarušin 1935:17)
    c. Xai \tilde{ na j'eu-ke j'e-we-ni}
    again again what-IND what-ACC-3SG
    b'a-ti uti.
    find.PAST-3PL that
    'They have found something again.'
```

However in some cases the verb is not marked for Plural either, cf.:

```
(1060) a. Anana mä:usa-ti anči bi-si-ni.
earlier gun-3PL no be-PAST-3SG
'Earlier they (the hunters) had no guns.' (SK 110)
```

$\begin{array}{lllll}\text { b. } \begin{array}{lll}\text { Anana } \\ \text { earlier }\end{array} & \begin{array}{l}\text { xuku } \\ \text { rope }\end{array} & \begin{array}{l}\text { anči } \\ \text { no }\end{array} & \begin{array}{l}\text { bi- } \\ \text { be-IC--IC-3SG }\end{array} & \text { ilakä-zi } \\ \text { bast-INS }\end{array}$ meli xeke:-ti. only tie.PAST-3PL 'Earlier there were no ropes and they used to tie (things) with bast.' (SK 116)

The verb normally takes Plural agreement when the subject is formally Singular but corresponds to a mass or abstract noun (1061) or has a collective interpretation (1062).

| (1061) Soyo | $\bar{n} a:-n i$ | ipakta-ni | wanimi-ŋku. |
| :---: | :---: | :---: | :---: |
| bear | skin-3SG | fur-3SG | long-PL |
| 'The f | fur of the be | is long.' |  |

(1062) a. Lusa sagdi xoton-du bagdi:-ti.

Russian big city-DAT live-3PL
'Russians live in big cities.'
b. Mo: abdä:-ni kogomoi b'a-iti.
tree leaf-3SG hirsty get-3PL
'The leaves of the trees are thirsty.'
c. Gele:-ni belesi-le:-1
ask.PAST-3SG help-PURP-3PL bird-ACC
'He called birds so that they help.' (SKX 76)
$\begin{array}{llll}\text { d. } & \text { Uti } \quad \text { xe } \quad \text { ki- } \eta k u \text {-du } & \text { Kimo } \begin{array}{l}\text { Kko }\end{array} \quad \begin{array}{l}\text { se:-ni } \\ \text { that }\end{array} \\ \text { clan-3SG }\end{array}$
On the other hand, when the subject is morphologically marked for plurality with the suffix -ziga, the verb typically takes Plural agreement (1063), although this rule is not strict either (1064).

| (1063)a. | Tuge-zi tukä-iti | in'ei-ziga. |
| ---: | :--- | :--- | :--- |
|  | fast-INST run-3PL | dog-PL |
|  | 'The dogs are running fast.' |  |
| b. | Th'aula-ziga | agda:-ti. |
|  | child-PL | get.happy.PAST-3PL |
|  | The children became happy.' |  |

(1064)Sita-u $\tilde{n} a:-w a-n i \quad$ daga-ili zube emende-ziga. son-1PL.EX skin-ACC-3SG burn-3SG two which-PL 'Two witches have burnt our son's skin.'

As was discussed in 13.3, the head of the quantified noun phrase is normally morphologically Singular. When the quantified noun phrase bears the subject role, the verb may be either in the Singular or in the Plural. This is shown in (1066a) and (1066b) taken from the same text, as well as in (1067a) and (1067b).

```
(1065)Egdi ni: eme:-ni.
    many man come.PAST-3SG
    'A lot of people came.'
\begin{tabular}{llll} 
(1066) a. & \begin{tabular}{l} 
Nada \\
seven
\end{tabular} & \begin{tabular}{l} 
neque \\
ogre
\end{tabular} & eme:-ti. \\
come.PAST-3PL
\end{tabular}
    'Seven ogres came.' (K 116)
    b. Nada ŋeचue eme-i-we-ni düisi-mi..
        seven ogre come-PRP-ACC-3SG here-1SG
    'I hear seven ogres coming.' (K 115)
(1067) a. W'ali-li-e-ti zu: mafa.
    fight-INC-PAST-3PL two bear
        'Two bears started fighting.'
    b. \(\mathrm{Zu}: \quad\) mafa eme:-ni.
        two bear come.PAST-3SG
        'Two bears came.'
```


### 15.1.1.3. Control of switch-reference

Most importantly, the notion of subject lies at the center of the switch-reference system which is addressed at greater length in 22.5 and illustrated in the chapters on subordinate clauses (Chapters 19-21). In conformity with this system, the non-finite verbs (participles and converbs) that form the subordinate clauses of different types carry personal affixes of one of two types: the so-called same-subject and different-subject. The former indicate the coreference of the subjects of the superordinate and the subordinate clause, while the latter indicates the lack of such coreference. The Nominative subject, as identified in 15.1.1.1 triggers the same-subject switch-reference affixes (examples can be found in 22.5), while other grammatical relations fail to do so. Example (1068) indicates that the subject of the copular construction controls the same-subject switch-reference markers (same-subject Perfective Converb):


### 15.1.1.4. Refexivization control

The Nominative subject controls reflexivization in the following two cases: first, Reflexive pronouns in different syntactic roles (22.3.1.1), and second, the Reflexive Possessive affixes (22.3.1.2) which indicate that the possessor within the corresponding noun phrase is coreferential with the subject. Grammatical relations other than the subject do not control reflexivization. See 22.3.3 for syntactic detail.

### 15.1.1.5. Impersonal forms of participles

When the Nominative subject is relativized, the active participle within the relative clause appears in its impersonal form (19.1.1, 19.1.2). On the other hand, when other syntactic positions are relativized, the participle takes the personal affix that refers to the subject of the relative clause.

### 15.1.1.6. Control of infinitival clauses

The Nominative subject determines particular non-finite forms in certain subordinate clauses (other than switch-reference markers). In particular, it controls the infinitival complement clause (Chapter 20) and the infinitival adverbial clause (Chapter 21).

### 15.1.1.6.1. Controllers of the infinitival clause

The infinitival clause, when its subject is referential, cannot be controlled by grammatical relations other than the subject, as illustrated below for the direct object (1069a) and the indirect object (1069b).


Examples (1070) demonstrate the infinitival advérbial clause controlled by the subject of the Passive, which in this case is coreferentially deleted (in the glosses this is marked by a zero).

```
(1070) a. Ma\etaga bi-mi i:mi likp-u-i
    [strong be-INF Ø] why close-PAS-2SG
    sama-du?
    shaman-DAT
    'Being strong, why can you be closed by the shaman? (to a hole)'
    (K 124)
    b. Manga bi-mi bua-du i:mi wu:-i?
    [strong be-INF Ø] God-DAT why kill.PAS-2SG
    'Being strong, why can you be killed by God?' (K 125)
c. Wakca-mi wa-w-o:-ni.
    hunt-INF kill-PAS-PAST-3SG
    'He was killed while hunting.'
When the agent of the subordinate infinitival clause does not correspond to the matrix clause subject, various strategies apply to avoid ill-formed structures. One option is the causativization of the subordinate clause.
```

```
(1071)Susana zug-tigi i:-wen-e-mi tu:
```

(1071)Susana zug-tigi i:-wen-e-mi tu:
[Susan house-LAT enter-CAUS-0-INF] all
[Susan house-LAT enter-CAUS-0-INF] all
xauntasi-li-e-ti.
xauntasi-li-e-ti.
ask-INC-PAST-3PL
ask-INC-PAST-3PL
'As soon as they let Susan into the house, everybody started asking him
'As soon as they let Susan into the house, everybody started asking him
(sic).'

```
    (sic).'
```


### 15.1.1.6.2. Different-subject infinitival clauses

Certain types of infinitival clauses may be controlled by the Dative experiencer noun phrase (20.1.1.3) and the Accusative causee in the causative constructions, which is an argument for their partial subjecthood (15.1.3). Further, infinitival clauses are allowed when the subjects of the two clauses bear a relationship of inalienable possession to each other. If the superordinate clause subject denotes a body part of the subject participant of the infinitival clause, a coreferential relationship between two subjects obviously does not hold, but the sentences are grammatical:

| (1072) a. | Ketu | egdi-me | ini-mi | emugde |
| :--- | :--- | :--- | :--- | :--- |
|  | $[\varnothing$ very | much-ACC | laugh-INF] | stomach |


| c. | Ei | banza-ma | korovati-le |
| :--- | :--- | :--- | :--- |
| [ $\varnothing$ this | board-ADJ | bed-LOC | sleep-INF] |
| ni: | beje-ni | teu uni:. |  |
| man | body-3SG | all hurt.PRP |  |
| 'When sleeping on this bed made of boards, the man's whole body |  |  |  |

Finally, the infinitival clause may be interpreted semantically as generic and lack a subject entirely.


### 15.1.1.7. Other control structures

The Nominative subject controls certain participial complement clauses (the so-called subject-control clauses (20.2.3.1)), as well as certain participial adverbial clauses (21.3.2.8).

### 15.1.1.8. Depictives

As demonstrated in 19.6, the Nominative subject controls secondary predicates (depictives). This property is also shared by some direct objects, but it is not typical of lower grammatical relations.

### 15.1.1.9. Coreferential deletion

The Nominative subject is a regular target of deletion under coreference (22.2.1). In particular, this concerns coreferential deletion across conjoined clauses, which is a property exclusively typical of subjects in Udihe (22.2.7.2).

### 15.1.1.10. Non-adjacent modifier

The subject together with the direct object seem to be the only grammatical relations that participate in certain constructions where an attributive modifier appears discontinuously with respect to its head: quantifier float (24.2.1.2.2), a non-adjacent relative clause (19.3) and adjectival determiner (24.2.1.2.1).

### 15.1.2. Imperative subject

The Imperative subject (the addressee of the Imperative clause) behaves in the same way as the ordinary Nominative subject.

### 15.1.2.1. Overt Imperative subject

In the most cases, the Imperative clause does not contain an overt subject constituent. However, the Imperative subject can be overtly present in the clause, especially when it is emphasized. So the rules for the overt presence of the Imperative subject do not basically differ from those for the non-Imperative subject, which is also normally omitted and is overtly present only when in focus (22.2.1). When the Imperative subject is overtly present, it is encoded by the Nominative noun phrase. Most frequently, its position is immediately after the Imperative verb (1074), but it can also be located clause-initially (1075).

| (1074) a. | Bu-je give-IMP. 2 | $\begin{array}{ll}  & s i \\ \text { SG } & \text { you } \end{array}$ | uta-wa. <br> that-ACC |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 'Give it.' |  |  |  |
| b. | Utemi therefore | min-tigi me-LAT | mafa-la-i <br> man-V-IMP.2SG | si. you |
|  | 'Therefore, | marry me.' |  |  |
| c. | Pigde inside | ñuхап-a-i-ze penetrate-0-I | P. 2 SG-HORT | si, you |
|  | ixompo. |  |  |  |
|  | bird.cherry | tree |  |  |
|  | 'Go inside, | bird cherry tree | '(SKX 160) |  |

```
(1075)a. Si boxoso eme-je.
    you humpback come-IMP.2SG
    'You, humpback, come in.'
b. Si
    you me-LAT first shoot-IMP.2SG [me
    ise-lege-i si ono-do
    see-PURP-1SG [you how-IND
    gakpa-i-wa-i.
    shoot-PRP-ACC-2SG]]
    'Shoot at me first, so I can see how you shoot.' (K 152)
```


### 15.1.2.2. Properties of the Imperative subject

The Imperative subject triggers agreement on the Imperative verb ( $2^{\text {nd }}$ person Singular or Plural) and seems to be characterized by all the subject properties described in 15.1.1. The most important are illustrated below. Examples (1076) demonstrates that it controls the infinitival subordinate clause; (1077) shows that it triggers same-subject switch-reference markers; in (1078) we illustrate that the Imperative subject controls coreferential deletion across the conjoint clause, while (1079) presents reflexivization.


| Zeu-we | diga-lie |
| :--- | :--- |
| [food-ACC | eat-CC.SS.PL |
| diga-ja-u. |  |
| eat-IMP-2PL |  |
| 'If you eat food, eat it in silence.' |  |

b. Min-du oloxi bu-je
me-DAT squirrel give-IMP.2SG [you
tipeni wa:-mi.
yesterday kill.PP-SS]
'Give me the squirrel you killed yesterday.'
$\begin{array}{lll}\text { c. } & \begin{array}{ll}\text { Sa-laga-mi } & \text { tani-je }\end{array} & a \text {-wa. } \\ \text { [learn-PURP-SS] } & \text { read-IMP.2SG } & \text { this-ACC }\end{array}$
'Read this in order to learn it.'

```
(1078)a. In'ei-we e-zi tuykala
    dog-ACC NEG-IMP.2SG touch
    iktemel-u-i.
    bite-PAS-2SG
    'Don't touch the dog, it will bite you.'
    b. Min-tigi e-zi pilaxi min-du
    me-LAT NEG-IMP.2SG tease me-DAT
    kogk-u-i.
    beat-PAS-2SG
    'Don't tease me, I will beat you.'
(1079)a. Unta-i-de men-e bei-zi:
    boot-REF-FOC REF-0 body-INSTR.REF
    e-zi wagi.
    NEG-IMP.2SG dry
    'Don't dry your boots yourself.' (K 109)
b. Gagda-na-m(i) galakta-na-i.
    another-DEST-REF seek-DIR-IMP.2SG
    'Go to seek a match (a wife) for yourself.'
c. Sul'ai
fox gown-REF.PL
'Fox, let us swap our clothes.' (K 164)
```


### 15.1.3. Subjectoids

Although no other syntactic units exhibit exactly the same cluster of properties as the Nominative subject, it is important to note that some of the properties addressed in 15.1.1 are shared by other elements. These elements will be called "subjectoids". Subjectoids do not take the Nominative case and do not trigger verbal agreement. However, they participate in certain (control) processes that are also typical of the subject. The following subjectoids share some subject properties: the Dative experiencer (15.1.3.1) and the Accusative noun phrase that corresponds to the causee argument of the causative constructions (15.1.3.2). We do not have enough material to address the behavior of these elements with respect to all subject properties, but each of subjectoids is characterized by at least one property, as opposed to lower grammatical relations.

### 15.1.3.1. Dative experiencer

The Dative experiencer is present in certain copular constructions (17.2.3) and demonstrates some subject properties. It controls the Infinitival complement
clause, as discussed in 20.1.1.3 (the so-called experiencer-controlled clause). Further, the Dative experiencer triggers the same-subject switch-reference affixes. This is illustrated in the following example, where the participle in the adverbial embedded clause is marked by the agreement morpheme - $i$ ambiguous between the same-subject and the $2^{\text {nd }}$ person Singular interpretation. The lack of the Accusative case marking on the embedded participle rather indicates that we deal here with the same-subject relation (cf. 22.5.2.2).


On the other hand, the Dative experiencer does not trigger verbal agreement, the impersonal participial forms when relativized or the other types of same-subject subordinate clauses mentioned in 15.1.1, and cannot be omitted under coreference. Unfortunately, we do not have material to show whether it can be an antecedent of a reflexive element.

### 15.1.3.2. The Accusative causee

The causee argument in the transitive Causative construction can be expressed either by the Accusative noun phrase or by the Dative noun phrase (16.1.4.3), and in intransitive Causative constructions only by the Accusative noun phrase (16.1.4.2).

The Accusative causee has several grammatical properties typical of subjects. First, it controls the infinitival clause as shown by the following example.

| (1081) Dami-we | damisi-mi | ni:-we | ede-ne-weni:-ni. |
| :--- | :--- | :--- | :--- |
| [tobacco-ACC | smoke-INF] | man-ACC | weak-V-CAUS-3SG |
| 'Smoking tobacco makes a man weak.' |  |  |  |

Second, like subjects, the Accusative causee is easily deleted under coreference with a previously mentioned element.
(1082)a.
Ogdö $\quad$ do-lo-ni
coffin inside-LOC-3SG
'We will put him to sleep in a coffin.'
yua-wan-za-fi.
coffin inside-LOC-3SG sleep-CAUS-SUBJ-1PL.IN
'We will put him to sleep in a coffin.' (K 190)

| b. | Yegdige | ba: | xo:n-dule-ni |
| :--- | :--- | :--- | :--- |$\quad$ ule:-ni

'The hero dug a hole in the forest and then put them to sleep.' (K 132)

Third, it can control the coreferential null across the conjoint clause.

```
(1083)a. Susa-gi-ze-mi bi, lä
    escape-REP-SUBJ-1SG me very
    uktu-wen-ze\etae tigde.
    wet-CAUS-FUT rain
    'I must escape, (otherwise) the rain will make me wet through.'
b. Nada-ma yeni nada-ma dogbo-ni
    seven-ACC day seven-ACC night-3SG
    sikisi-e-ni. mamasa-i, siki-e-k,
    wash-PAST-3SG wife-REF wash-PAST-EXPR
    aja-zi teti-gi-wene:-k.
    good-INST dress-REP-CAUS-PAST-EXPR
    'He was washing his wife for seven days and seven nights, he
    washed her and dressed her well.'
```

With respect to reflexivization, our evidence is controversial. Example (1084a) shows the null causee which corresponds to the coreferentially deleted Accusative noun phrase. This argument is shared by several conjoined causative verbs, some of which are originally intransitive and therefore allow only the Accusative causee (16.1.4.2.1), these are teti-gi-wen-' $e$ 'caused to put on', zawa-gi-wan-'e 'caused to take', iktemele-gi-wen-e:-ni 'caused to bite', and te-gi-wer-ki-ni 'caused to sit'. The possessive affixes on the words ono-wo-ni 'her kerchief' and dami-mi-we-ni 'her pipe', although they refer to the causee argument, are not reflexive. Moreover, in (1084b) the reflexive element on na:-ni-la-i 'on on your land' can refer only to the (imperative) subject but not to the causee.

| (1084) a. | Wo-zono-wo-ni | teti-wen-'e, | seuzine-le |
| :--- | :--- | :--- | :--- |
|  | [sew-FUT-ACC-3SG] | dress-CAUS-PERF | kerchief-FOC |
|  | oño-wo-ni | zawa-gi-wan-' $e$, |  |
|  | embroid-ACC-3SG | take-REP-CAUS-PERF |  |
|  | dami-mi-we-ni | iktemele-gi-wen-e:-ni, |  |
|  | pipe-AL-ACC-3SG | bite-REP-CAUS-PAST-3SG |  |
|  | dondom $\quad$ te:-gi-wey-ki-ni. |  |  |
|  | straight $\quad$ sit-REP-CAUS-PAST-3SG |  |  |

'He made her take what she will sew, gave her a kerchief to embroider, made her take a pipe with her teeth, and seated her straight.' (K 105)
b. Ma:ma, grandmother
na:-ni-la-i.
land-AL-LOC-REF
'Grandmother, let me perch on your land.' (SKX 326)

However, in the following examples the null Accusative causee does control the reflexive pronouns me-mi and men-tigi.

```
(1085) a. Amba-n'a-si
evil.spirit-V.PERF-PC.SS
kese-u-li-li-e-ni,
suffer-CAUS-INC-INC-PAST-3SG
bagdi: ni:-we
live.PRP man-ACC
me-mi
REF-ACC
wa-wan-a-ini.
kill-CAUS-0-3SG
'Having turned into an evil spirit he used to torture living people, he
forced them to kill themselves.' (SK 203)
b. Tada-zi men-tigi gakpa-wan-a-ini tipe arrow-INST REF-LAT shoot-CAUS-0-3SG chest t'afa.
straight
'He forces them to shoot at themselves straight in the chest.' (SKX 406)
```

It looks like both options are equally available.
On the other hand, the Accusative causee does not seem to have other subject properties, and behaves syntactically like a direct object (15.2). In particular, it can trigger passivization (16.1.4.4) and does not control switch-reference, cf.:
Diga-la:-ni
čaja umi-wen-e-i.
[ $\varnothing$ eat-PURP-3SG] tea drink-CAUS-0-PRP
'She made him drink tea so that he eats.'

```

\subsection*{15.1.3.3. The Dative causee}

The Dative causee does not exhibit any subject properties. In particular, it does not control the infinitival clause (1087a), the coreferential null, and reflexivization (1087b).
```

(1087)a. Eme-mi bi Iwana-du abuga-tigi
[come-INF] me Ivan-DAT father-LAT.REF
oño-wo oño-won-ki-mi.
letter-ACC write-CAUS-PAST-1SG

```

```

    b. Men-e j'e-le uni bi-si-ni uta-la
    REF-0 what-LOC hurt be-PAST-3SG that-LOC
    ni:-du begdi-le-ni nala-la-ni
    man-DAT leg-LOC-3SG arm-LOC-3SG
    auli-wa\eta-ki-ni.
    swell-CAUS-PAST-3SG
    'He made a leg or an arm of a man to swell at the (same place)
    where he himself felt pain.' (SK 955)
    ```

\subsection*{15.1.4. Subjectless clauses}

Although the notion of subject plays an important role in the Udihe grammar, subjectless clauses are possible. The absence of an overt subject in such a clause does not follow from coreferential deletion (as the one addressed in 22.2.1), but is non-referential.

\subsection*{15.1.4.1. Semantically-driven absence of subject}

An overt subject is absent in the subjectless non-copular (14.1.1) and copular (17.2.1) clauses with a null-argument verb. More detail can be found in the corresponding sections. The subjectless clauses normally describe natural environmental conditions. Matrix clauses with subject-control aspectual or modal verbs (20.2.1) are syntactically subjectless if the subordinate clause is subjectless for semantic reasons.


\subsection*{15.1.4.2. Voice-related absence of subject}

The surface subject is absent from some voice-driven constructions, namely, the Agentless Passive (16.1.2), the regular Passive with the nominal patient/theme argument (16.1.1.2.2), and the active agentless construction (16.2.5), including the impersonal subordinate infinitival clause (20.1.1.1). An example of a subjectless embedded clause formed with an impersonal participle is cited in 7.10.1.1.3. In all these clauses, the agent has a generic or indefinite interpretation, which conditions the suppression of the grammatical subject. They will be referred to as impersonal. The impersonal clauses differ from the semantically subjectless clauses (15.1.4.1). In impersonal sentences the subject participant, although suppressed from the surface clause structure and sometimes from the argument structure of the predicate, is present in the conceptual representation of the event. Therefore it can trigger certain syntactic processes. The examples below illustrate the Agentless construction. The "impersonal" null subject controls the reflexive elements, which in this case also receive a generic or indefinite interpretation (1089) and the same-subject switch-reference markers (1090).


The following examples demonstrate Agentless Passive clauses where the impersonal subject has the generic reading (1091) or the indefinite reading (1092), but controls the same-subject subordinate clause.
\begin{tabular}{llll} 
(1091) a. & \begin{tabular}{l} 
Soloixi
\end{tabular} ugda-zi & solo-mi & gäun-d-u-i. \\
& [upstream boat-INST float-INF] & pole-V-PAS-PRP \\
& 'When going upstream in the boat, one uses poles.'
\end{tabular}
\(\begin{array}{lll}\text { b. Xoyto } & \text { ba:-tigi } & \text { nene-mi } \\ {[\text { other }} & \text { place-LAT } & \text { go-INF] }\end{array}\)
kämbu-was-u-ji.
sacrifice-DIV-PAS-PRP
'One has to make a sacrifice going to another place.' (K 123)
c. Aisi-gi-mi e-u-zeףe mute uta-wa.
[mend-REP-INF] NEG-PAS-FT can that-ACC
'It is not possible to mend it.'
d. Ei-mi santi-si e-u ji: zuk-tigi.
[NEG-INF fist-V] NEG-PAS enter house-LAT
'One shouldn't enter the house without knocking.'
e. ñono-wo ñono-nisi-ge-si
[glue-ACC glue-V-PERF-PC.SS] much-ACC-FOC
mo:-wo tukti-mi tukti-mi ñoŋo-u-ji.
tree-ACC climb-INF climb-INF glue-PAS-PRP
'Having made a lot of glue, one should climb a tree and smear (it with the glue).' (SKX 258)
f. Xa:-mula bi-mi ono mamasa-la-u-ji?
[sibling-N be-INF] how wife-V-PAS-PRP
'How can you, being siblings, get married?' (SKX 310)
\(\begin{array}{llll}\text { (1092) a. } & \text { Zugdi-we } & \text { xeline-mi } & \text { wo-so. } \\ & \text { house-ACC } & {[h u r r y-I N F]} & \text { make-PP.PAS }\end{array}\)
'The house was built in a hurry.'
b. Tege-we
uli-mi
e-u-se
metu.
[gown-ACC sew-INF]
NEG-PAS-PP
finish
'They haven't finished sewing the gown.'

In the following sentence the main clause contains an impersonal expression whose "subject" controls the same-subject switch reference marker on the infinitive and the reflexive element within the subordinate complement clause.
```

(1093)Me-mi ge: aga-la-wan-a-mi.
[REF-ACC] bad [deception-V-CAUS-0-INF]
'It is bad to let (other people) deceive you.'

```

\subsection*{15.2. Direct object}

There is some syntactic evidence suggesting that the notion of the direct object is important in Udihe grammar. The element that can be identified as the direct object is the noun phrase that is marked by the Accusative case and corresponds to:
(i) the second (patient/theme) argument of the transitive verb in the non-passive matrix and subordinate clauses (the transitive verbs which take the direct object argument are addressed in Chapter 14);
(ii) the patient/theme in Agentless Passive transitive constructions (16.1.2);
(iii) the lexical noun phrase that corresponds to the patient/theme in Passive constructions (16.1.1.2.2).
(iv) the causee argument of intransitive and transitive causatives (16.1.4). The reflexive direct object is morphologically marked with the Nominative case (22.3.2), but syntactically it behaves in the same way as the Accusative object.

Udihe exhibits double object constructions in which more than one argument is encoded as the Accusative noun phrase (16.2.1). These constructions are not very frequent, and the grammatical relations borne by their elements are basically unstudied. Note however that both objects in such constructions undergo passivization, as is suggested by the data from the Causative double object constructions (16.1.3.4). In this section we will deal only with single object sentences.

\subsection*{15.2.1. Object properties}

The direct object is not characterized by the subject properties as identified in 15.1.1. It does not control reflexivization, switch-reference, or the infinitival subordinate clauses, and never triggers verbal agreement. However, it exhibits certain syntactic properties that differentiate it from lower grammatical relations (indirect and oblique objects and adjuncts).

\subsection*{15.2.1.1. Coreferential deletion}

Like the subject (though less regularly), the direct object can be coreferentially deleted under certain discourse conditions. In 22.2.2 examples of the coreferential deletion of the direct object are presented. On the other hand, direct objects, unlike subjects, do not control coreferential deletion across conjoint clauses.

\subsection*{15.2.1.2. Passivization}

The direct object is the only grammatical relation that can passivize (on possible exceptions see 16.1.1.3). In the Passive constructions (16.1.1) the correspondence between the agent and the subject is violated. The pronominal patient (that is, the direct object of the corresponding active construction) is promoted to the subject, while the lexical patient argument fails to do this. Importantly, only the direct object of the active construction can passivize, while, for example, the indirect object and lower grammatical relations cannot.

In 16.1.4.4 examples are presented for the passivization of the Accusative causee argument.

\subsection*{15.2.1.3. Depictives}

The direct object, as opposed to the other grammatical relations, but together with the subject, can control certain depictives, that is, secondary predicates (see 19.6).

\subsection*{15.2.1.4. Control structures}

The direct object is coreferential with the subject of subordinate clauses of certain types, the so-called "object-control" clauses (20.2.2.1 and 20.2.3.2).

\subsection*{15.2.1.5. Attributive case-agreement}

The direct object and subject are the only grammatical relations that trigger attributive case-agreement in the quantified noun phrase (13.3.6) and the relative clause (19.2.3).

\subsection*{15.2.2. Destinative object}

Apart from the Accusative direct object, characterized by the syntactic properties described in 15.2.1, the patient/theme argument may be encoded by the destinative object (16.2.2). The destinative object corresponds to a possessive noun phrase whose head is marked by the Destinative case and the possessive affix. The head noun denotes an object designated for a particular person (benefactive) or purpose, which, in its turn, can be encoded by the modifier noun and is cross-referenced by the personal affix.

Similarly to the regular direct object (19.6), the destinative object can control depictives, as illustrated in (1094).
\begin{tabular}{llll} 
(1094)a. & \begin{tabular}{l} 
Sul'ai \(\quad\) tege-ne-ni
\end{tabular} & wo:-jo \\
& fox \\
& uligdig'a-zi. & \\
& beautiful-DEST-3SG & \\
& make-IMP.2SG
\end{tabular}
```

b. Sita-ziga tege-ne-ti wo:-ti
child-PL gown-DEST-3PL make.PAST-3PL
uligdig'a-zi-de.
beautiful-INST-FOC
'They made beautiful gown for the children.'

```

However, in its other properties it differs from the regular object. It cannot passivize or be coreferentially deleted across conjoint clauses, does not control subordinate clauses, and does not trigger attributive case-agreement. This suggests that the destinative object may have a special grammatical status, differing from that of the regular direct object.

\subsection*{15.2.3. Direct object in Passive constructions}

As shown in 16.1.1, in the Personal Passive clauses the element that corresponds to the direct object of the active counterpart construction, normally, the patient or theme, is encoded by the Accusative noun phrase, if it is a noun (not a personal pronoun). In a similar fashion, the patient/theme argument of the transitive Agentless Passive is marked for the Accusative case (16.1.2). The crucial question is whether these elements can be identified as subjects. The syntactic tests, described in section 15.1.1, show that the Accusative noun phrases in passive constructions do not exhibit the cluster of subject properties typical of the Nominative subject. In particular, they do not control reflexivization, cf. (1095a) and (1095b); do not trigger same-subject switch reference markers (1096); do not control the coreferential null across the conjoined clause (1097), and do not participate in other control structures.
\begin{tabular}{|c|c|c|c|c|}
\hline (1095) a. & Omo one & \begin{tabular}{l}
n'aula-wa \\
boy-ACC
\end{tabular} & \begin{tabular}{l}
bue-ni \\
he-3SG
\end{tabular} & \begin{tabular}{l}
mäunda-zi-ni \\
gun-INST-3SG
\end{tabular} \\
\hline & \begin{tabular}{l}
wa-sa \\
kill-PP
\end{tabular} & & & \\
\hline & 'One b & s killed fro & s own & \\
\hline b. & *Omo one & \begin{tabular}{l}
n'aula-wa \\
boy-ACC
\end{tabular} & \begin{tabular}{l}
bue-ni \\
he-3SG
\end{tabular} & mäunda-zi: gun-INST.REF \\
\hline & wa-sa. & & & \\
\hline & kill-PP & & & \\
\hline & 'One b & silled from & own gu & \\
\hline (1096) & Uti \(n i\) & sa-w & & ba:-za \\
\hline & that m & & AS-2SG & [place-N \\
\hline & ge-le & & & \\
\hline & surface & -3SG NEG & P-ACC-3 & \\
\hline & 'You & ognize the m & who (nev & to the forest.' \\
\hline
\end{tabular}

\author{
(1097) a. Petro-wa Iwana-du konko-wo:-ni Petro \\ Peter-ACC Ivan-DAT beat-PAS.PAST-3SG Peter \\ クепе:-ni. \\ go.PAST-3SG \\ 'Peter \({ }_{i}\) was beaten by Ivan \(_{j}\) and he \({ }_{i \cdot j}\) left'. . \\ b. *Petro-wa \\ Peter-ACC Ivan-DAT beat-PAS.PAST-3SG \(\varnothing\) \\ クene:-ni. \\ go.PAST-3SG \\ 'Peter \({ }_{i}\) was beaten by Ivan \({ }_{j}\) and he \({ }_{i / j}\) left'.
}

\subsection*{15.2.4. Summary of grammatical properties}

The comparative table 14 illustrates the syntactic properties of the higher grammatical relations in Udihe; the question mark indicates lacunae in our material. The table shows that, as expected, the most syntactically active element is the subject. The direct object and certain subject-like elements (subjectoids) share some of the subject properties, while other grammatical relations (represented by the Dative causee here) are syntactically inert.

Table 14. Grammatical relations
\begin{tabular}{lllllll}
\hline \begin{tabular}{llll} 
grammatical \\
properties
\end{tabular} & \begin{tabular}{l} 
NOM \\
subject
\end{tabular} & \begin{tabular}{l} 
ACC \\
causee
\end{tabular} & \begin{tabular}{l} 
DAT \\
experiencer
\end{tabular} & \begin{tabular}{l} 
ACC \\
object
\end{tabular} & \begin{tabular}{l} 
DEST \\
object
\end{tabular} & \begin{tabular}{l} 
DAT \\
causee
\end{tabular} \\
\hline Nominative & + & - & - & - & - & - \\
Agreement & + & - & - & - & - & - \\
Switch reference & + & - & + & - & - & - \\
\begin{tabular}{l} 
Reflexivization
\end{tabular} & + & \(+/-\) & \(?\) & - & - & - \\
\begin{tabular}{l} 
Control of
\end{tabular} & + & - & - & - & - & - \\
\begin{tabular}{l} 
Impersonal
\end{tabular} & & & & & & \\
\begin{tabular}{l} 
participles
\end{tabular} & & & & & & - \\
\begin{tabular}{l} 
Deletion across \\
conjoint clauses
\end{tabular} & + & + & - & - & - & - \\
\begin{tabular}{l} 
Control of \\
infinitival \\
clauses
\end{tabular} & + & + & + & + & - & - \\
\begin{tabular}{l} 
Other control \\
structures \\
Depictives \\
Non-adjacent \\
modifier
\end{tabular} & + & + & + & - & + & + \\
\begin{tabular}{l} 
Attributive \\
case-agreement
\end{tabular} & + & + & - & + & + & - \\
Passivization
\end{tabular}

\subsection*{15.3. Other arguments}

Grammatical relations other than subjects and direct objects were not studied syntactically in detail, and in their identification we will rely only on their semantics and their morphological marking. The verbal valence patterns in the active constructions are described in Chapter 14, where the morphological marking of the arguments is also addressed. It should be noticed, however, that arguments other than the subject and the direct object demonstrate considerably lower syntactic activity: they do not control reflexivization, switch-reference, depictives, and the infinitival clause, do not passivize, and do not trigger verbal agreement. Among the lower grammatical relations only the Lative indirect object functions as a syntactic controller of certain types of subordinate clauses (20.2.2.1.1, 20.2.3.2.2) and can be passivized (16.1.1.3). However, its other properties are unstudied.

As distinct from the higher grammatical relations of the subject and the object, other arguments cannot normally be coreferentially deleted. On the other hand, unlike adjuncts (15.4), they do not control the non-referential null and cannot be removed from the sentence without affecting its well-formedness (see section 21.2). Thus some verbs are likely candidates for more than three semantic arguments, although syntactically they might only be two-place. Examples are the verbs xudasi- 'sell' and gada- 'buy'. Although in a particular sentence three (1098a) or four (1098b) nominals bear a specific grammatical and semantic relation to them, for the well-formed structure only two arguments (the agent and the patient) must be overtly present or referentially implied (1098c).
\begin{tabular}{llllll} 
(1098)a. & Bi & gada:-mi & xeleba-wa & ila & tieze-zi. \\
& me buy.PAST-1SG & bread-ACC & three & ruble-INST
\end{tabular}

\subsection*{15.4. Clausal adjuncts}

Like all other grammatical relations, adjuncts can relativize (Chapter 19) but are syntactically inert with respect to controlling properties. Since adjuncts are not obligatory in the semantic representation of the clause, as distinct from
arguments, they can easily be dropped from a sentence with a non-specific interpretation. However, they are not normally able to control a referential null.

Adjuncts are described below from the point of view of their semantics and formal expression; the section is structured around their semantic types. In this section we only concentrate on those adjuncts that are encoded by oblique-case noun phrases, but naturally, adverbs and postpositional phrases express various adverbial meanings, see Chapter 10. We do not deal here with adjuncts in voice-related constructions, they are addressed in Chapter 16. Adverbial subordinate clauses are discussed in Chapter 21. Only the immediate constituents of the clause are treated here; on adverbs within the adjective and adverbial phrase, see \(6.3,10.1 .4\).1, and 10.1.7.2.

\subsection*{15.4.1. Spatial adjuncts}

\subsection*{15.4.1.1. Locative noun phrase}

Basic meaning: location, place in space ("in", "by" or "on"), cf:
\[
\begin{array}{llll}
\text { (1099) a. } & \text { Biki-le } & \text { sugzä: } & \text { egdi. } \\
& \text { Bikin-LOC } & \text { fish much }
\end{array}
\]
'There is a lot of fish in Bikin.'
b. Suanka Suai bäsa-la-ni bagdi-e-ti.

Suanka Suai stream-LOC-3SG live-PAST-3PL
'The Suankas lived by the stream Suai.'

\subsection*{15.4.1.2. Lative noun phrase}

Basic meaning: direction of movement, place of destination ("into", "onto" or "to"), cf.:
```

(1100)a. Bi

```
a:pa-za
right-N
me
wende-le:-mi.
hrow-SING.PAST-1SG
'I threw the stone to the right.'
b. Sine
mouse REF-0 hole-LAT.REF
susa-gi-e-ni.
escape-REP-PAST-3SG
'The mouse escaped to its hole.'
me \begin{tabular}{r}
\(a: \eta a-z a\) \\
right-N
\end{tabular}
e:-tigi-ni
side-LAT-3SG
zolo-wo
stone-ACC
\(\begin{array}{llll}\text { c. } & \text { Pakula bita-tigi } & \text { xetigene:-ni. } & \\ & \text { Pakula spit-LAT } & \text { jump.PAST-3SG } & \\ \text { 'Pakula jumped on the spit.' } & \\ \text { d. } & \text { Xuda-si: } \quad \text { ni: } & \text { dili-zi: } & \\ \text { fur-V.PRP } & \text { man } & \text { head-INST.REF } & \text { ima:-tigi } \\ \tilde{n} u x a \eta-k i-n i . ~ & & & \\ \text { dive-PAST-3SG } & & \\ \text { 'The merchant dived head first into the snow.' }\end{array}\)

\subsection*{15.4.1.3. Ablative noun phrase}

Basic meaning: starting point of movement ("from"), cf.:
(1101) a. Bu Yara-digi Xabarovska-tigi jene:-mu. we Yar-ABL Khabarovsk-LAT go.PAST-1PL.EX
'We went from Yar to Khabarovsk.'
b
b. Keige
cat
mo:-digi-ni
tree-ABL-3SG
'The cat came down the tree.'
c. Bi xonto škola-digi oño-wo b'a-mi.
me other school-ABL write-ACC ge.PAST-1SG 'I got a letter from another school.'
eu-gi-e-ni.
come.down-REP-PAST-3SG

\subsection*{15.4.1.4. Prolative noun phrase}

Basic meaning: the place through which or along which movement progresses (cf.: conku-li 'through the window', uli-li 'along the river'). More examples:
(1102) a. Nemnes'e xuku-li ataxi xuli:-ni.
thin rope-PROL spider go-3SG
'A spider is moving along a thin rope.'
b. \(N i\).
wopti-li xuli:-ti.
man door-PROL go-3PL
'People are walking through the door.'
c. Ñ'aula men-e bugdi-zi
bugdi-li:
\(\begin{array}{lll}\text { child } & \text { REF-0 leg-INST leg-PROL.REF }\end{array}\)
bugdi-li: konko-do-gi:-ni.
leg-PROL.REF beat-SEM-REP-3SG
'The child is (playing) with his legs, beating one leg against another.'
d. Xokto-li uli-le nene:-fi,
road-PROL water-LOC go.PAST-1PL.EX
uli-li
water-PROL
'ana-zi
boat-INST
go.PAST-1PL.EX
ŋene:-fi.
go.PAST-1PL
'We went to the river along the road, and along the river we went by boat.'
15.4.1.5. Dative noun phrase

Basic meaning: place in space ("in" or "on"). On the difference between the Dative and the Locative see 4.2.2.5.2. Examples:
```

(1103)a. Oloxi men-e xui-du-i tue-ini.
squirrel REF-0 hole-DAT-REF winter-3SG
'A squirrel passes winter in its hole.'
b. Bi škola-du tatusi-mi.
me school-DAT study-1SG
'I sstudy at school.'
c. Udie ma\etamu omo ba:-du wakca:-ti.
Udihe Nanai one place-DAT hunt.PAST-3PL
'The Udihe used to hunt in the same place as the Nanai.'

```

\subsection*{15.4.2. Temporal adjuncts}

Quite a few time expressions are borrowed from Russian, those for the time of day (časa 'hour', minute 'minute'), days of the week (sereda 'Wednesday'), and months of the year (marta 'March'). Months of the year may also be expressed periphrastically as 'the first month', 'the second month', and so on. These expressions are used adverbially in various case forms (see below). The names for periods of the day and the seasons are native and when they express location in time they behave as uninflected adverbs (10.1.2). Certain temporal meanings (punctual, anterior, and posterior) are expressed by postpositional phrases, on which see 10.2.

\subsection*{15.4.2.1. Dative noun phrase}

The Dative noun phrase or the Dative adjectival phrase may express temporal meaning by describing the time of the event through a set of circumstances, often natural phenomena, such as xekui-du or zexui bua-du 'when it is hot', tigde-du 'when it rains', mude-du 'during the flood'. The temporal adjunct bears the secondary predicative function.


The Dative noun phrase can express the additional meaning of a condition (1105a) or cause (1105b).
(1105) a
Egdi
many \(\quad b\)
\begin{tabular}{ll} 
b'oto-du & tei-mi \\
mushroom-DAT & gather-INF
\end{tabular} tuge. many gather-NF quickly. If there are many mushrooms one can gather them quickly.'
\begin{tabular}{lllll} 
b. & Su: manga xekui-du ugda & kaktaga:-ni. \\
sun very hot-DAT boat & crack.PAST-3SG \\
'The boat cracked with the strong sun.'
\end{tabular}

Furthermore, the Dative regularly marks the noun phrase that names the months (di: bä:-du 'in April (in the fourth month)), years (ti: aja-du-ni 'last year'), days (vetornika-du 'on Tuesday'), and hours (zube časa-du 'at two o'clock').
(1106) a. Bi ila bä:-du eme-zene-i.
me three month-DAT come-FUT-1SG
'I'll come in March (the third month).'
b. Di: bä:-du egdi küfa.
four month-DAT many tick
'There are many ticks in April (the fourth month).'

\subsection*{15.4.2.2. Locative noun phrase}

Locative noun phrases express location in time, for example, at a particular hour: tuya časa-la 'at five o'clock', as well as the time when somebody was of particular age: za: se:-le-i 'when I was ten' <ten age-LOC-1SG>. The time of day may be also expressed by the Dative (15.4.2.1).

\subsection*{15.4.2.3. Ablative noun phrase}

Ablative noun phrases express the starting point in time: ic'a-digi 'since childhood', subota-digi 'since Saturday, from Saturday', and also:
\begin{tabular}{ccl} 
(1107) Zube ana-ni & uta-digi & wadi-du-ge. \\
two year-3SG that-ABL & finish-PL-PERF \\
'Two years have passed since then.' &
\end{tabular}

\subsection*{15.4.2.4. Instrumental noun phrase}

The Instrumental noun phrase expresses a period of time, usually when the sentence refers to the future (1108) or somehow expresses the future in the past (1109).
(1108) \(\mathrm{Za}: \quad\) neضi-zi eme-zene- i .
ten day-INST come-FUT-1SG
'I will go away for 10 days.'
(1109) a. Nua-ni eme-gi-e-ni zube
he-3SG come-REP-PAST-3SG two
neni-zi-ni.
day-INST-3SG
'He came for two days'.
b. Bue-ni min-du kusige-i
he-3SG me-DAT knife-REF
bu-o:-ni omo zua-zi-ni.
give-PAST-3SG one summer-INST-3SG
'He gave me his knife for the summer.'
15.4.2.5. Lative noun phrase

The Lative noun phrase denotes the final point in time: subota-tigi 'until Saturday', vetornika neri-tigi-ni 'until Tuesday' (literally: 'until the Tuesday day').

\subsection*{15.4.2.6. Accusative noun phrase}

The Accusative noun phrase, when it functions as a temporal adjunct, expresses a period of time (duration) in the past or the present.
```

(1110)a. Nua-ni ila-ma ne\etai-ni o-du
he-3SG three-ACC day-3SG this-DAT
bi-si-ni.
be-PAST-3SG
'He was here for three days.'
b. Bi xoton-du lll
me city-DAT two-ACC day-3SG
bi-si-mi.
be-PAST-1SG
'I was in the city for three days.'
c. Ei bi in'ei tu\etaa-ma a\etaa-nibi:-ni.
this me dog five-ACC year-3SG be-3SG
'I have had this dog for five years.'

```

\subsection*{15.4.2.7. Prolative noun phrase}

Certain Prolative noun phrases express the frequency with which an action is repeated: neyi-li neri-li 'day by day', ana-li-ni ana-li-ni 'one year after another'. It may also denote a period of time (1111b).
(1111) a. Jegdige manga-na-li-ge, neni-li
hero strong-V-INC-PERF day-PROL
neri-li tu manga-na-li-ge.
day-PROL all strong-V-INC-PERF
'The hero began to get stronger, day by day he grew stronger.'
(K 193)
b. Jei ze: seh-lie bagdi-e-ni.
nine ten year-PROL live-PAST-3SG
'He has lived for ninety years.' (SK 1069)

\subsection*{15.4.2.8. Nominative noun phrase}

The Nominative noun phrase may express the duration of time in certain partly adverbialized expressions, cf.: zube aya-ni 'two years', ei dogbo-ni 'this night'. Here they are not viewed as "real" adverbs because they preserve some nominal properties, such as the ability to be modified by a pronominal determiner (9.7.4) or a Possessive affix. The latter encodes situational definiteness (4.1.3.3.2). See also the following example.
\begin{tabular}{llll} 
Uti \(\quad\) ina:-ni & omo & ana-ni. \\
that & last.PAST-3SG & one & year-3SG \\
'It lasted one year.' (SK 120) &
\end{tabular}
15.4.3. Source and cause adjuncts

\subsection*{15.4.3.1. Source of information}

The source of knowledge or information is encoded by the Locative noun phrase, cf.:
\begin{tabular}{rlrl} 
(1113) a. & \begin{tabular}{l} 
Bula \\
ash.tree
\end{tabular}\(\quad\)\begin{tabular}{l} 
mo:-ni \\
tree-3SG
\end{tabular}\(\quad\)\begin{tabular}{l} 
wakta-la-ni \\
bark-LOC-3SG know-PAS-PRP
\end{tabular} \\
& 'An ash tree can be recognized by its bark.'
\end{tabular}

\subsection*{15.4.3.2. Partitive meaning}

Apart from the means described below, partitive meaning may also be rendered with the postposition do-lo-ni (10.2.1).

\subsection*{15.4.3.2.1. Locative noun phrase}

The Locative noun phrase denotes a group of objects, one of which participates in the situation described by the clause.
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline (1114) a. & Ila three & & & & omo one & \begin{tabular}{l}
moxo \\
cup
\end{tabular} & \begin{tabular}{l}
camna:-ni. \\
break.PAST-3SG
\end{tabular} \\
\hline & 'One of the & three & cups & s has & broken.' & & \\
\hline b. & Ei tege-le this gown- & OC & & omo-t
one-R & EST & c'aligi. red & \\
\hline & 'Only one of & \(f\) thes & gow & wns is & s red.' & & \\
\hline c. & Minti-le & \(g e:\) & & \(n i\) : & \(a n c ̌ i\). & & \\
\hline & we-LOC & bad & & & & & \\
\hline & 'There are & bad & eop & ople a & ong & & \\
\hline
\end{tabular}
\begin{tabular}{llll} 
d. \begin{tabular}{l} 
Omo \\
one
\end{tabular}\(\quad\) zugdinke-le & bi & omus'e \\
esi-ge:-mi. & & me & \\
alone
\end{tabular}

\subsection*{15.4.3.2.2. Nominative noun phrase}

The same function is fulfilled by the Plural Nominative noun, often followed by the quantifier egdi 'many, much, a lot' in a bare form (1116). The whole noun phrase has a partitive meaning.
(1115) Bi men-e tege-i zube-me xebu-zene-i.
me REF-0 gown-REF two-ACC take-FUT-1SG
'I will take two of my gowns.'
\begin{tabular}{llll} 
Bi sita-na-i & egdi & Iwana aja-zi \\
me child-PL-1SG & many & Ivan good-INST \\
\(\tilde{n}\) ansule-ini. & & \\
study-3SG & \\
'Among my children (only) Ivan studies well.'
\end{tabular}
egdi Iwana aja-zi
many Ivan good-INST
study-3SG
'Among my children (only) Ivan studies well.'
b. Zugdi egdiomo-so zugdi aja. house many one-REST house good 'Among (these) houses, only one house is nice.'

\subsection*{15.4.3.3. Cause}

The causal meaning is usually rendered by the Lative (1117), the Ablative (1118), or the Locative (1119).
\begin{tabular}{|c|c|c|c|}
\hline \[
\begin{align*}
& \text { Ugda }  \tag{1117}\\
& \text { boat }
\end{align*}
\] & timadule morning & \begin{tabular}{l}
silie-tigi \\
dew-LAT
\end{tabular} & teu
all \\
\hline \begin{tabular}{l}
nukto:-ni \\
get.wet.PP-
\end{tabular} & 3SG & & \\
\hline 'In the mor & g, the & all wet fr & \\
\hline
\end{tabular}
b. Manga su:-tigi ektine:-ni.
strong un-LAT faint.PAST-3SG
'He fainted because of the sun.'
c. imo: xun-tigi-ni bi begdi: tuge
fat smell-LAT-3SG me leg.ISG soon
a:si-lege-ni
get.better.PAST-3SG
'so that my leg gets better soon thanks to the flavor of fat' (K 153)
\(\begin{array}{llll}\text { d. } & \text { B'ata } & \text { zolo-tigi } & \text { bugdi: }\end{array} \quad\) wa:-ni. \(\quad\) boy \(\quad\) stone-LAT \(\quad\) foot.REF \(\quad\) kill.PAST-3SG
'The boy hurt his leg against a stone.'
f. Depe-digi asi neigze.
lamp-ABL very bright
'It is very bright from the lamp.'
(1118)Abdä: edi-tigi tigme-ne:-ni.
leaf wind-LAT fall-DIST.PAST-3SG
'Leaves fell down from the wind.'
(1119)
\begin{tabular}{llll} 
Egdenke, & j'eu & manga-la-ni & eme:-i, \\
interesting & what & stong-LOC-3SG & come.PAST-2SG \\
jegdige? & & & \\
hero & & &
\end{tabular}
'I wonder, because of which difficulties did you come, hero?'
(SKX 200)
In addition, the Locative noun phrase may render 'for' or 'instead' meaning, cf.:
(1120) Bajta-la-ni
crime-LOC-3SG
'He took one for his crime.' (SKX 144)
zawa:-ni.
take.ACC-3SG
15.4.4. Adjuncts of purpose and destination
15.4.4.1. Lative noun phrase

A Lative noun phrase may express a general purpose.
(1121) a. Ule xun-tigi-ni in'ei dog come.PAST-3SG meat smell-LAT-3SG
'The dog came to the smell of meat.'
b. Ugda-tigi tugbu-lege-mi nixe-mi. boat-LAT cut.tree-PURP-SS do-1SG 'I am going to cut trees for the boat.'

\subsection*{15.4.4.2. Dative noun phrase}

The Dative noun phrase expresses either the recipient/benefactive (1122), or the purpose of a certain creative activity (1123).
\begin{tabular}{rll} 
(1122)a. & \begin{tabular}{l} 
Nua-ni mamasa-du-i
\end{tabular} & \begin{tabular}{l} 
tege-we \\
\\
\\
he-3SG wife-DAT-REF
\end{tabular} \\
& gada:-ni. & \\
& buy.PAST-3SG & \\
& 'He bought a dress for his wife.' \\
b. & Xala-ja \(\quad\) min-du. & \\
& \begin{tabular}{l} 
pour-IMP.2SG \(\quad\) me-DAT
\end{tabular} \\
& 'Pour (some) for me.'
\end{tabular}
(1123) a. Od'o grandfather
mo:-wo tree-ACC

\section*{emuge-du} cradle-DAT
\(u\)-wen-e-ini.
bend-CAUS-0-3SG
'Grandfather bends the wood for (to make) a cradle.'
b. Nakta
\(\tilde{n} a:-w a-n i\)
boar skin-ACC-3SG
eilisi:-ni unta-du.
scrape-3SG boots-DAT
'(She) scrapes the boar skin for boots.'
c. Tikpe-we zueze-du gazi-e-ni.
nail-ACC table-DAT bring-PAST-3SG
'He brought some nails for the table.'

Adjectives that denote size (of clothes), such as ic'a 'small', nektes'e 'narrow', umac'a 'short', sagdi 'large', and eqme 'wide' are regularly combined with the Dative noun phrase that expresses the person for whom the size is measured, cf.:
(1124) a.
\begin{tabular}{llll}
Ei & aula & sin-du & \(i c^{\prime} a\). \\
this & cap & you-DAT & small
\end{tabular}
'This cap is small for you.'
b. Ei aziga-du tege umac'a.
this girl-DAT gown short
'The dress is too short for this girl.'
c. Teu-ni-du na: jič'a odo-li-e-ni.
all-3SG-DAT earth small become-INC-PAST-3SG
'The earth became small for everybody.' (SK 666)

\subsection*{15.4.4.3. Destinative noun phrase}

The destinative noun phrase can function in a sentence as an argument (the destinative object). Such cases are addressed in 16.2.2. Alternatively, it may correspond to the adjunct element that denotes the destination/purpose or has a substitutional meaning ('as something or somebody for somebody'). Like other adjuncts and unlike the destinative object, destinative adjuncts can easily be removed from the sentence.

In sentences with the destinative adjunct, the direct object is either encoded in a regular way with the Accusative noun phrase (1125), or is dropped under coreference (1126).

c. Ei mo: ñaktu-se-we-ni j'e-ne-mi
this tree rot-PP.PAS-ACC-3SG what-DEST-REF
gazi-e-i? Sayminku-ne-mi.
bring-PAST-2SG smoke-DEST-REF
'Why did you bring this rotten tree? For (making) smoke.'

\subsection*{15.4.5. Manner adjuncts}

Manner adverbials render various semantic nuances, and it is only by convention that they can be unified semantically. They are usually expressed by instrumental noun phrases with the different interpretations exemplified below.
15.4.5.1. Means of transportation

Examples: ugda-zi 'by boat', fuetiye-zi 'by plane', begdi-zi 'on foot', di:n-zi begdi-zi 'on all fours' <four-INST leg-INST>.
(1127) a. Ugda-zi neugi-e-ti.
boat-INST take.back-PAST-3PL
'They took it back by boat.'
\(\begin{array}{llll}\text { b. } & \begin{array}{ll}\text { Tue } & \text { käsa-zi } i\end{array} & \text { dieli-gi-e- } i & e i \\ \text { winter } & \text { eagle-INST } & \text { fly-REP-PAST-1SG } & \text { this } \\ \text { tene } & \text { zeli-zi } & \text { sologi-e- } i . & \\ & \text { CONT } & \text { bulltrout-INST } & \text { go.upstream-PAST-1SG }\end{array}\)
'In the winter I came flying on an eagle, but now I have come upstream on a bulltrout.'
c. \(B i \quad x u k u-z i\) mo:-digi eu-gi-mi. me rope-INST tree-ABL come.down-REP-1SG 'I am going down the tree using a rope.'
\(\begin{array}{lll}\text { d. } & \text { Motora-zi } & \text { yene-mi } \\ \text { motor-INST } & \text { go-INF } & \text { eke. } \\ & \text { easy }\end{array}\)
'It is easy to go by motor boat.'

\subsection*{15.4.5.2. Instrument}

Examples:
(1128) a.
\begin{tabular}{llll} 
Loxo-zi & mafa-wa & wa:-mu & g'e: \\
saber-INST & bear-ACC & kill-IMI & bad \\
so:ndo & bi:-ni, & gida-zi & tada-zi \\
\begin{tabular}{llll} 
sin be-3SG & spear-INST & arrow-INST & \\
mä:usa-zi & wa:-mu & aja. & \\
gun-INST & kill-IMI & good &
\end{tabular} \\
\hline
\end{tabular}
'It is a sin to kill a bear with a saber; to kill it with a spear, with an arrow, with a gun is good.' (K 176)
b. Мепти-тe
silver-ADJ
min-e-we
moxo-zi
cup-INST
aisi-me uniŋa-zi
me-0-ACC
diga-wan-a-ja.
eat-CAUS-0-IMP.2SG
'Feed me from a silver cup with a gold spoon.'
c. Ň'aula zolo-zi wa-si:-ti.
boy stone-INST kill-IM-3PL
'Boys are fighting with stones.'

\subsection*{15.4.5.3. Material}

Examples:
(1129) a. Niyka seule-zi-ni

Chinese silk-INST-3SG
teisi:-ni.
wear-3SG
'A gown (made) of Chinese silk is worn for a very long time.'
b. Ei unina-wa j'e-zi wo-so?
this spoon-ACC what-INST make-PP.PAS
'What is the spoon made from?'
The instrumental adjunct denoting the material from which a certain object is made may co-occur with a verb of creation even in the absence of the object noun phrase itself. In such a case, the instrumental adjunct actually refers to the characteristic of the object, incorporated into the verbal form (on this see 8.1.1), rather than to a characteristic of the process itself.
\begin{tabular}{lll} 
Käna & jä:-zi-ni & okto- \(\boldsymbol{\eta i s i s i - t i . ~}\) \\
deer & antler-INST-3SG & medicine-V-3PL
\end{tabular}
\begin{tabular}{llll} 
b. & \(\tilde{N} o ̈:\) & \(\tilde{n} a:-z i-n i\) & au- \(n i s i-e-n i\).
\end{tabular}
15.4.5.4. Measure, price, value

Examples:
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{(1131) a.} & \begin{tabular}{l}
Bue-ni \\
he-3SG
\end{tabular} & \(\min -d u\) me-DAT & \multicolumn{2}{|l|}{xudasi-e-ni sell-PAST-3SG} \\
\hline & kusige-i & zu: tieze & \multicolumn{2}{|c|}{tieze-zi.} \\
\hline & knife-REF & two rubl & NST & \\
\hline & \multicolumn{4}{|l|}{'He sold me his knife for two rubles.'} \\
\hline \multirow[t]{4}{*}{b.} & Xuda-si: sell-IM.PRP & \(n i\) : man & \begin{tabular}{l}
nayda-wa \\
debt-ACC
\end{tabular} & no:-zi sable-INST \\
\hline & ga:gi-e-ni. & & & \\
\hline & collect-PAS & T-3SG & & \\
\hline & \multicolumn{4}{|l|}{'The merchant collected his debts in sables.'} \\
\hline \multirow[t]{5}{*}{c.} & Ei zugdi-z & iga-wa & sagdi-le-w & \\
\hline & this house-P & L-ACC & big-N-AC & \\
\hline & adi & metra-zi & wo:-ti? & \\
\hline & how.many & meter-INST & make.PAS & \\
\hline & 'How many & meters long & they make & houses?' \\
\hline
\end{tabular}

\subsection*{15.4.5.5. Manner}

Different types of manner meanings are described by the Instrumental noun phrase: paig'a-zi gusi-ni 'play cards', koxo-zi su:le-ini 'is ill with furunculosis', and tege-zi 'with one's clothes on', sewe-zi 'in the shape of a spirit'. It also expresses the manner of speaking (1132a), the part of the body employed for an action (1132b), the basis for making a judgment (1132c), the manner of living (1133), and the cause (1134).
(1132) a. udie keje-zi 'in the Udihe language'.
b. Bi men-e
\(j a:-z i\)
ise:-mi,
me REF-0 eye-INS.REF see.PAST-1SG
\(\begin{array}{lll}\text { men-e } & \text { ku'ai-zi } & \text { dogdi-e-mi. } \\ \text { REF-0 } & \text { ear-INST.REF } & \text { hear-PAST-1SG }\end{array}\)
'I saw (it) with my own eyes and heard with my own ears.'
```

c. Nua-ni koli-zi dia\eta-ki-ni.
he-3SG law-INST say-PAST-3SG
'He was speaking according to the law.'
(1133)a. Udie tue-ze-zi bagdi-e-ti.
Udihe winter-N-INST live-PAST-3PL
'The Udihe lived in winter huts.'
b. Anana kawa-zi bagdi-e-mu.
long.ago tent-INST live-PAST-1PL.EX
'Before we used to live in (grass) tents.'
(1134)B'ata jausala:-ni gegbuyku-zi.
boy poison.PAST-3SG berry-INST
'The boy poisoned himself with berries.'

```

\subsection*{15.4.5.6. Circumstance}

The Instrumental noun phrase encodes adjuncts that denote various circumstances accompanying the situation, particularly a secondary object that is involved.

'I went with my own gun.'
15.4.5.7. Comitative

Comitative adjuncts denote the accompanying person and so correspond to animate nouns. They are encoded as an Instrumental noun phrase, which may also function as a modifier within a noun phrase. On the systematic difference
between comitative modifiers and adjuncts see 13.5.1. The comitative adjunct is semantically associated with the subject participant. The verb demonstrates Singular agreement (1136). Plural agreement is possible only when the subject is formally or semantically Plural (1137).
\begin{tabular}{llll} 
Nua-ni alagdig'a aziga-zi & yene:-ni. \\
he-3SG beautiful & girl-INST & go.PAST- \\
'He was walking with a beautiful girl.' \\
Nua-ni ei b'ata-zi & eme:-ni. \\
he-3SG this boy-INST & come.PAST-3SG \\
'He came with this boy.' &
\end{tabular}
c. Bi xunazi: keige Wasia-zi gusi:-ni.
me sister.1SG cat Vasja-INST play-3SG
'My sister is playing with the cat Vasja.'

(1137) Ogbö eni-zi: moose female-INST.REF
buga-du oŋk'o-iti. 'The mooses graze with their females in a clearing.'

\section*{Chapter 16 Valence-changing operations}

In Chapter 14 the verbal valence patterns were described according to the semantic arguments of the corresponding verb. Each semantic argument was placed in a one-to-one correspondence with a syntactic argument that has to be overtly present in a sentence or can be recovered through coreference with a previously mentioned element. However, more than one correspondence between semantic roles and grammatical relations is possible. We will refer to these as different sentence constructions. So by construction we mean a syntactic structure that encodes a certain mapping relationship between semantic roles and grammatical relations. This chapter addresses the syntactic operations that change the sentence construction. When such an operation is also morphologically marked in the verbal form itself we will refer to different voice constructions (16.1). Yet, the alternative encoding of semantic roles by grammatical relations is sometimes not accompanied by special morphological markers in the verb; such constructions are addressed in 16.2 .

\subsection*{16.1. Voice constructions}

Sentence constructions that correspond to the valence patterns described in Chapter 14 involve, conventionally speaking, the direct voice characterized by two properties. First, the number of semantic arguments (semantic roles) is exactly equal to the surface number of syntactic arguments. In other words, all arguments must be either overtly present or retrieved from the context. Second, in the direct voice constructions the agent argument corresponds to the grammatical relation of the subject, as identified in 15.1.1. Voice constructions that violate at least one of these conditions will be called indirect. The following indirect voice constructions will be addressed here: Passive, Agentless Passive, Causative, Decausative, and Reciprocal. In each of them the verb is characterized by a special morphological marking that encodes the corresponding indirect voice.

Obviously, different indirect voices cannot co-occur with each other and with the direct voice within one clause. The only exception is the Causative, which co-occurs with another indirect voice. This is because the Causative is the only indirect voice that increases the verbal valence. Below we cite the examples that show the Causative co-occurring with the Agentless Passive. On the passivization of causative constructions see 16.1.4.4.
```

(1138)
B'ata-wa diga-wan-a-sa.
boy-ACC eat-CAUS-0-PP.PAS
'The boy is fed.'

```

\subsection*{16.1.1. Passive}

The Passive is only allowed for transitive verbs. As was mentioned in 15.2.1.2, mostly direct objects are passivized in Udihe, on possible exceptions see 15.1.1.3. Several passive verbs do not have a non-passive equivalent (8.2.1.5.2).

The meaning of the Passive in Udihe is actional. Compared to certain other languages that have the Passive, the Udihe Passive is used rather rarely. Some functions which cross-linguistically are typical of the Passive are fulfilled by the Agentless Passive construction (16.1.2). The only use of the Personal Passive is for the topic-promoting of the patient argument, although other strategies are available for this as well (see Chapter 24). De-emphasizing the agent, which is universally known to be another function of the Passive, is a function of the Agentless Passive in Udihe (16.1.2).

In the Passive construction the agent participant does not correspond to the grammatical relation of the subject. The passive agent is marked by the Dative and bears the grammatical relation of adjunct. It is normally overtly present; however, removing it from the sentence does not yield ungrammaticality. A certain split is observed in the grammatical encoding of the patient/theme argument, depending on its deictic status.

\subsection*{16.1.1.1. Passive constructions with the Nominative subject}

The pronominal patient corresponds to the Nominative subject, that is, to the nominatively marked noun phrase which is characterized by a certain cluster of grammatical properties (15.1.1). The Nominative subject may be encoded by the overt personal pronouns of the \(1^{\text {st }}, 2^{\text {nd }}\), or \(3^{\text {rd }}\) person (1139), but is even more likely to be coreferentially deleted (1140). In both cases it triggers subject agreement on the passive verb.
\begin{tabular}{rlrl} 
(1139) a. & \begin{tabular}{ll} 
Si min-du \(\quad\)\begin{tabular}{l} 
gida-si-u-zene-i. \\
sou me-DAT
\end{tabular} & \\
& spear-V-PAS-FUT-2SG
\end{tabular} \\
'You will be killed by me.'
\end{tabular}
'You will be stabbed by me with the harpoon.' (K 149)
```

c. Bi eni\etae-du-i abuga-du-i
me mother-DAT-1SG father-DAT-1SG
wende-le-wo:-mi.
throw-SING-PAS.PAST-1SG
'I am abandoned by my mother and father.'
(1140) a. Toxö-du imi bugo-wu-i?
cloud-DAT why covered-PAS-2SG
'Why are you covered with clouds?' (K 124)
c. J'eu-du mag-u-o:-u?
what-DAT kill-PAS-PAST-2PL
'Who killed you?'(K 178)
d. Agdi-du \etaele-we-si-u-i.
thunder-DAT be.afraid-CAUS-IM-PAS-1SG
'I am frightened by thunder'.
f. Buk-ki-ni Uza, kalima-du
die-PAST-3SG Uza whale-DAT
xuktu-wo:-ni.
carry.away-PAS.PAST-3SG
'Uza died, he was taken away by the whale.' (K 114)

```

\subsection*{16.1.1.2. Subjectless passive constructions}

A non-pronominal (lexical) patient argument is encoded by the Accusative noun phrase. In section 15.2.3 it was shown not to have any subject properties and to correspond to the grammatical relation of the direct object. It does not trigger verbal agreement. Thus, although the agent is demoted to the adjunct role, the nominal patient argument is not promoted to the subject, and the whole construction is characterized as subjectless.
```

(1141)a. Ei lenta-wa sin-du eni\etae-du
this ribbon-ACC you-DAT mother-DAT
bu-wo:-ni.
give-PAS.PAST-3SG
'This ribbon is given to you by the mother.'
b. Songo ule:-we-ni diga-wu-ini in'ei-du.
bear meat-ACC-3SG eat-PAS-3SG dog-DAT
'The bear meat is being eaten by dogs.'
c. J'e-we diga-wo:-ni?
what-ACC eat-PAS.PAST-3SG
'What was eaten?'

```


There is a certain tendency (especially among younger speakers) to omit the Accusative marker on the noun phrase with the patient meaning even when it is a lexical noun. This tendency seems to have developed under the influence of the Passive construction in Russian, where the corresponding noun phrase is always encoded by the Nominative, and perhaps under the analogous influence of the pronominal pattern (16.1.1.2.1). Sometimes the Accusative affix is missing for purely phonetic reasons (see 4.2.2.2.2). An example is:
\begin{tabular}{lll} 
Uti tene & oloxi-gde & \begin{tabular}{l} 
zaw-u-o:-ni \\
this CONT \\
b'ata-du.
\end{tabular} \\
squirrel-FOC & \\
catch-PAS-PAST-3SG
\end{tabular}

\subsection*{16.1.1.3. Passivization of the indirect object}

We do not have enough evidence for the passivization of the indirect object marked with the Lative affix -tigi; certainly it is not a frequent option. However, the following example suggest that it is not impossible, at least by passivization of a causative verb, cf. (1143a) and (1143b). In the latter the passive subject is not overtly present, but the verbal agreement indicates that it is \(1^{\text {st }}\) person Plural Exclusive.
```

(1143)a. Uli min-tigi eme:-ni.
water we-LAT come.PAST-3SG
'Water came to us.'
b. Ele uli-we eme-wen-e-u-mu.
enough water-ACC come-CAUS-0-PAS-1PL.EX
'It is enough for us to be sent with water.' (SK 1122)

```

\subsection*{16.1.2. Agentless Passive}

The Agentless Passive is very frequent both in transitive and intransitive clauses. Its main function is to eliminate or demote the agent, while the communicative status of the direct object (in transitive clauses) remains basically the same as in the original direct construction.

The meaning of the Impersonal Passive is actional; it may also render the habitual meaning or a whole array of modal meanings. Its arguments are often semantically non-referential.

\subsection*{16.1.2.1. Morphology}

The Impersonal Passive verbal forms are analytic; they consist of the content verb and, optionally, the copula 'be' in a certain temporal form. The copula takes \(3^{\text {rd }}\) person Singular agreement affixes, and, according to the general rule (17.1.1.2), it is normally omitted in the Present tense. The content verb appears in the form of passive participles (7.6.1.2), either of the Present, or the Past, or the Future tense.

The Impersonal Passive opposes two moods, the Indicative and the Necessitative. In the Indicative the content verb is represented by Present passive participles (the imperfective Agentless Passive) or Past passive participles (the perfective Agentless Passive). The two aspectual forms indicate respectively whether the event is in progress at the time of reference or has finished by the time of reference. The Necessitative Impersonal Passive is formed with the Future passive participles.

The time reference of the whole construction is determined by the tense of the copula 'be', namely, either the Present tense (in which case the copula is optional), the Past or Perfect tense, or the Future tense. For the imperfective and the Necessitative Passive, Future tense forms are not found. Neither have we the complete paradigm for the negative forms.

The table below presents the system of Agentless Passive for the verb zawa'take', with approximate translations. The passive participle forms of this verb, which participate in the Agentless Passive constructions, are zawa-u-i 'being taken' (passive Present Participle), zawa-sa 'taken' (passive Past Participle), and zawa-u-zele 'which had to be taken' (passive Future Participles).
tense of the copula
Present
Indicative
Imperfective
\begin{tabular}{ll} 
zawa-u-i (bi:-ni) & \begin{tabular}{l} 
zawa-u-i bi-s'e \\
'is being taken' \\
'is taken'
\end{tabular} \\
\begin{tabular}{l} 
zawa-u-i bi-si-ni \\
'was being taken' \\
'was taken'
\end{tabular} \\
\begin{tabular}{l}
\(e-u\)-ji zawa \\
'is not being taken'
\end{tabular} & \begin{tabular}{l}
\(e-u-j i\) zawa bi-s'e \\
'was not being taken'
\end{tabular}
\end{tabular}

\section*{Perfective}
\begin{tabular}{lll} 
zawa-sa (bi:-ni) & \begin{tabular}{l} 
zawa-sa bi-s'e \\
zawa-sa bi-si-ni \\
'had been taken'
\end{tabular} & \begin{tabular}{l} 
zawa-sa \\
bi-zene-ni \\
'will be taken'
\end{tabular} \\
'was taken' & \\
'is taken' & \\
'has been taken' & \\
e-u-se zawa, & \\
e-ptile zawa & \\
'was not taken' \\
'is not taken' & \\
'has not been taken' &
\end{tabular}

Necessitative
\begin{tabular}{ll} 
zawa-u-zeqe (bi:-ni) & zawa-u-zeje bi'-se \\
'has to be taken' & zawa-u-zeje bi-si-ni \\
& 'had to be taken'
\end{tabular}
e-u-zeŋe zawa
'has not to be taken'
The Agentless Passive occurs in participial subordinate clauses. The example below presents an adverbial postpositional clause, based on the Present passive participle.
\begin{tabular}{lllll} 
Zeu-we & bu:-ji & edeisini & eitene & teu \\
food-ACC & give.PAS-PRP & when & now all \\
diga-zaya-ni. & & & \\
eat-FUT-3SG & \\
'When the food is given, he will eat it all immediately.'
\end{tabular}

\subsection*{16.1.2.2. Sentence construction}

As was mentioned above, the primary pragmatic function of the Impersonal Passive is to encode the "de-emphasized" status of the agent, which may be semantically indefinite, universal, non-specific, or generic. Hence the agent argument is absent, and so is the grammatical subject. Only a few examples are found where the agent is expressed lexically by the Dative noun phrase, such as (1146), but they are extremely rare and not accepted by all speakers. They obviously appeared under the influence of the regular Passive (16.1.1).
(1146)
Ei oloxi-we
this squirrel-ACC
b'ata-du zawa-sa.
'This squirrel is caught by the boy.'

In Agentless Passive constructions the direct object retains the function, case marking, and syntactic properties of the direct object (15.2). However, the morphological Accusative is sometimes absent. This reflects the general tendency to omit the Accusative marker (4.2.2.2), as shown in the following free variants:
(1147) Ule:(-we) zi:-se.
meat(-ACC) cut-PP.PAS
'The meat is cut.'

Agentless Passive constructions with intransitives naturally lack the direct object argument. In some rare cases, the object is not present even if the verb is transitive. It then has an indefinite interpretation, cf.:
(1148) Zugdi koso-lo-ni
xula-zi
dai-sa.
house comer-LOC-3SG
blanket-INSTR cover-PP.PAS
'Something is covered with the blanket in the corner of the house.'
(K 156)

\subsection*{16.1.2.3. Imperfective Agentless Passive}

\subsection*{16.1.2.3.1. The meaning of temporal forms}

The Imperfective Agentless Passive describes a situation simultaneous with the time of reference, which in its turn is expressed by the copula. Present and Past forms of the Imperfective Agentless Passive are exemplified in (1149a) and (1149b) respectively.
\begin{tabular}{|c|c|c|c|}
\hline & Nuan-di-ni he-DAT-3SG & egdi-me bu:-much-ACC give & bu:-ji. give.PAS-PRP \\
\hline & \multicolumn{3}{|l|}{'A lot is given to him.'} \\
\hline b. & Anana dawa before salmon & namikta-wa-ni dried.fish-ACC-3SG & \[
\text { läs }(i)
\]
very \\
\hline & wagisi-u-i & bi-s'e. & \\
\hline & dry-PAS-PRP & be-PERF & \\
\hline & \multicolumn{3}{|l|}{'Long ago people used to dry salmon.'} \\
\hline
\end{tabular}
16.1.2.3.2. Modal meaning

In Udihe the Present tense is employed to express a timeless universal situation (7.8.1.1.2). This is also true in the case of the imperfective Impersonal Passive in
the Present tense, as is demonstrated in the following examples. An additional implication might also be that of possibility or necessity.
```

(1150) a.
Ei b'oto-wo
this mushroom-ACC
'This mushroom is edible.'
b. Suese-we e-u-ji
axe-ACC NEG-PAS-PRP
aisi-gi.
mend-REP
'You can't mend this axe.'
c. Čaja-wa olokto-u-ji.
tea-ACC boil-PAS-PRP
'One boils tea (tea should be boiled).'
d. Ei mäunda-zi bui-we wakca-u-i.
this gun-INST animal-ACC hunt-PAS-PRP
'One kills animals with this gun.'
e. Ule:-we olokto-u-ji.
meat-ACC cook-PAS-PRP
'One cooks meat (meat should be cooked).'
f. Wa: ni: ni:-we wa-u-i.
kill.PP man man-ACC kill-PAS-PRP
'Who killed a man must be killed.' (SK 202)

```

\subsection*{16.1.2.4. Perfective Agentless Passive}

The Perfective Agentless Passive indicates that the event took place and was finished prior to the time of reference, be it present, past, or future. The construction describes the event itself and not the resulting state, as does the resultative construction (17.2.2.5). This can be seen from predicate adverbials that characterize verbal action. This is shown in (1151) where the time adverb tineyi 'yesterday' refers to the actual time when the letter was written.

(1151) Ei oño-wo
this letter-ACC
tuge / tineri
quick/yesterday
'This letter was written quickly/yesterday.'
oño-so. write-PP.PAS

The Present tense forms indicate that the action took place in the past with the implication that its result is relevant to the present. It can be translated into English with the Present or the Past Passive (1152). The perfective Past Impersonal Passive is similar in meaning to the Pluperfect in Udihe (7.8.1.5). It indicates that the action took place in the past and was finished prior to another moment in the past (1153a) or a long time ago (1153b). The closest English equivalent would be the Pluperfect Passive. The Future indicates that the action will take place in the future (1154).
\begin{tabular}{|c|c|c|c|}
\hline (1152) a. & \begin{tabular}{l}
Ei unina-wa \\
this spoon-ACC
\end{tabular} & \[
\begin{aligned}
& j ' e-z i \\
& \text { what-INST }
\end{aligned}
\] & \begin{tabular}{l}
wo-so? \\
make-PP.PAS
\end{tabular} \\
\hline \multicolumn{4}{|c|}{'What is/was this spoon made of?'} \\
\hline b. & Oño-wo & oño-so & (bi:-ni). \\
\hline & letter-ACC & write-PP.PAS & be-3SG \\
\hline & \multicolumn{3}{|l|}{'The letter is/was written.'} \\
\hline
\end{tabular}
c. \begin{tabular}{ll} 
Zueze egelie & te:-se. \\
table & around
\end{tabular} sit-PP.PAS
'People have sat down around the table.'

\begin{tabular}{rll} 
(1154) 'Ana-wa & wo-so & bi-zene-ni. \\
boat-ACC & make-PP.PAS & be-FUT-3SG
\end{tabular}
'The boat will be made.'

\subsection*{16.1.2.5. Necessitative Agentless Passive}

The Necessitative Agentless Passive is formed with the Future passive participle and the copula in the Present (optionally) or in the Past. So in the Agentless Passive the Present and Past forms of the Necessitative are opposed, while the active Necessitative has only past reference (see 7.9.3). Both transitive and intransitive verbs occur in these constructions.

The Present tense expresses the universal possibility or necessity to perform the action named by the verb, and the modal state is of a general timeless character (1155). The Past tense expresses necessity or obligation that pertains to the time prior to the moment of speech (1156).

```

    c. O-du zugdi-we wo-u-ze\etae.
    this-DAT house-ACC make-PAS-FP
    'Here a house should be built.'
    (1156)

| a. Tiŋeni | oño-u-zeŋe | bi-si-ni |
| :--- | :--- | :--- |
| yesterday | write-PAS-FP | be-PAST-3SG |

```
oño-wo.
```

    letter-ACC
    'The letter had to be written yesterday.'
    | b. Sin-e-we | anana | konko-u-zene | bi-si-ni. |
| :--- | :--- | :--- | :--- |
| you-0-ACC | long.ago | beat-PAS-FP | be-PAST-3SG |

    'You had to be beaten a long time ago.'
    c. Anana jene-u-ze\etae nixe:-ni magazina-tigi.
long.ago go-PAS-FP do.PAST-3SG shop-LAT
'One had to go to the shop a long time ago.'
d. Zayza teu tiymene:-ni, imexi-we
fence all fell.PAST-3SG new-ACC
wo-gi-u-ze\etae bi-si-ni.
make-REP-PAS-FP be-PAST-3SG.
'The fence fell down completely, one had to make a new one.'

```

In the Northern dialect, as recorded by Kormušin, Agentless Passive Necessitative may occur in personal function and does not express Necessitative meaning, cf.:
\begin{tabular}{llll} 
) a. & \begin{tabular}{l} 
I:-u-zene min-e-we \\
enter-PAS-FP me-0-ACC
\end{tabular}\(\quad\)\begin{tabular}{l} 
wa-za. \\
kill-SUBJ
\end{tabular} \\
& 'If I enter, he will kill me.' (K 157) & & \\
b. Sugzä-wa e-mu \(\quad\) zepte, ono bi-u-zene? \\
& fish-ACC NEG-1PL.EX eat how be-PAS-FP \\
& 'We don't eat fish, how shall we live?' (K 174)
\end{tabular}

\subsection*{16.1.2.6. Definite agent}

As was mentioned above, the agent of the personal Passive construction is conceived as generic or indefinite. However, in some cases it may refer to the speaker herself if the speaker chooses to conceive the situation "from outside" (1158). Furthermore, an agent may be definite (known to the speaker) but be beyond her present scope of attention (1159).
```

(1158)
a.
Eniŋe, aziga-ziga mäwa-wa-ti i:-le mother girl-PL heart-ACC-3PL what-LOC nede-u-ji?
put-PAS-PRP
'Mother, where to put (shall I put) the girls' hearts?' (K 106)

```
b. Anda-i
friend-1SG
olokto-u-ji?
cook-PAS-PRP
'What to cook (shall I cook) so that my friend eats?' (K 126)
c. I:-u-zeךe
enter-PAS-FP
\(e-l i\)
NEG-CC.SS
wa-za, kill-SUBJ
min-e-we
me-0-ACC
\(i\) : e-u-zeךe b'a aziga. enter NEG-PAS-FP get girl
```

'If I enter, he will kill me, if I don't enter, I won't get the girl.'
(K 157)
d. Ono zawa-u-zeŋe?
how catch-PAS-FP
'How to catch him (how shall I catch him)?'
(1159) a. Sin-du zeu-we bu-se.
you-DAT food-ACC give-PP.PAS
'The food is given to you.'
b. Moxo-tigi čaja-wa čudi-se.
mug-ALL tea-ACC poor-PP.PAS
'The tea is poured into the mug.'
c. Sin-e-we o-du ise-se.
you-0-ACC this-DAT see-PP.PAS
'You were seen here.'

```

\subsection*{16.1.2.7. Intransitive clause}

The examples below demonstrate intransitive sentences with the Agentless Passive. In intransitive constructions the agent can only have a generic interpretation.
\begin{tabular}{|c|c|c|c|c|}
\hline (1160) a . & \[
O-d u
\] & & keje-zi-ni & dian-a-u-ji. \\
\hline & \({ }^{\text {this-DAT }}\) &  & lihe.' & \\
\hline b. & O-du this-DAT & \[
\begin{aligned}
& \text { te-u-ji } \\
& \text { sit-PA }
\end{aligned}
\] & S-PRP & \\
\hline & 'Here one & & & \\
\hline
\end{tabular}


\subsection*{16.1.3. Causative}

The Causative construction is monoclausal. The Causative derivation is marked by the suffix -wAn- in the verbal form with the morphology discussed in 8.2.1.2. It adds an extra valence to the base verb, a participant who is caused to perform the action. This will be called the causee, while the participant who instigates the action (the causer) will be conventionally called the agent. The Causative constructions are presented depending on the initial valence patterns of the corresponding non-Causative verbs.

\subsection*{16.1.3.1. Null-argument verbs}

Null-argument (meteorological) verbs (14.1) can causativize in certain contexts, normally in addresses to God or the powers of nature, or in folklore. Causativization adds the agent valence to the resulting verb, but the causee argument is absent. Thus the verb does not transitivize, as, for example, one-argument verbs do (16.1.4.2), and the resulting verb takes only one valence, the agent. The latter corresponds to the subject noun phrase.
(1161) a. Ñaŋmu-gi-wen-e-je.
clear-REP-CAUS-0-IMP.2SG
'Make it clear up (the sky)!'
b. Tigde-wen-e-je.
rain-CAUS-0-IMP.2SG
'Make it rain!'
c. Täs(i) tigde-wen-e-mi.
very rain-CAUS-0-1SG
'I make heavy rain.' (K 124)
d. Saŋña p'ou-p'ou odo-way-ki-ni. smoke dark-dark become-CAUS-PAST-3SG 'It has become dark from the smoke.' (SK 1019)

\subsection*{16.1.3.2. Intransitive verbs}

Causatives derived from intransitives are widespread. In the corresponding construction the agent is encoded as the subject noun phrase, while the causee behaves syntactically and morphologically as a direct object (see 15.1.3.2).
16.1.3.2.1. Encoding of the causee argument

According to the general rule (15.2), the direct object argument (causee, in this case) is encoded by the Accusative noun phrase if it does not bear Reflexive Possessive affixes (1162), or by the Nominative noun phrase if it is reflexive (1162).
a. \begin{tabular}{ll} 
Od'o-wo & tomo-won-o-jo. \\
grandfather-ACC & warm-CAUS-0-IMP.2SG \\
'Make the grandfather warm.' (K 170)
\end{tabular}
'Make the grandfather warm.' ( K 170 )
b.
this skillful-ADJ-ACC what-DAT
jene-wen-e:-i?
go-CAUS-PAST-2SG
'Why did you let this very skillful (woman) go?' (K 173)
c. Uli-we-de mude-wen-e-mi.
river-ACC-FOC flow-CAUS-0-1SG
'I make rivers flow.' (K 124).
d. Exe si xuga-i ele ele
sister you bear.cub-2SG soon soon
e-zi xuli-wan-a.
NEG-IMP.2SG go-CAUS-0
'Sister, don't let your bear cubs go far away.' (K 131)
e. Kanda mafa b'ata-ni wa:-ma-ni

Kanda old.man son-3SG kill.PP-ACC-3SG
\(n i:-n e-g i-w e \eta-k e-i\).
man-V-REP-CAUS-PERF-1SG
'I have made the murdered son of the old man Kanda a man again.' (K 193)
\begin{tabular}{lll} 
f. \begin{tabular}{l} 
Eineni eme-wer-ki-ni \\
today \\
come-CAUS-PAST-3SG
\end{tabular} & \begin{tabular}{l} 
mini-e-we. \\
me-0-ACC
\end{tabular} \\
& 'He made me come today.'
\end{tabular}
(1163)a. Bi sita-i mamasa-la-way-ki-mi.
me child-REF wife-V-CAUS-PAST-1SG
'I made my son marry.'
\(\begin{array}{lll}\text { b. In'ei } & \text { igi: } & \text { ugi-wen-e-ini. } \\ \text { dog } & \text { tail.REF } & \text { move-CAUS-0-3SG. }\end{array}\)
'The dog wags its tail.'
In the Northern dialect as recorded by Kormušin, the Accusative marking of the direct object is not regular (4.2.2.2). The causee-object may remain morphologically unmarked. This, however, does not influence its syntactic status.


Like other direct objects (15.2), the direct object-causee is easily deleted under coreference with a previously mentioned element.


\subsection*{16.1.3.2.2. The verb edewen- 'make’}

The Causative verb ede-wen- 'make' is derived from the copula verb ede'become' (17.1.3.2). Like the copula in a regular copular construction (Chapter 17), this verb is preceded by a predicative adjective. In other respects the Causative construction behaves in the usual way.
```

(1166) a. Conku-we sagdi ede-wen-e-je.
window-ACC big become-CAUS-0-IMP.2SG
'Make the window big.'
b. Aja ede-wer-ki-ti.
good become-CAUS-PAST-3PL
'They made it nice.'
c. Bi tege-we umac'a ede-wer-ki-mi.
me gown-ACC short
'I made the gown shorter.'

```
```

d. Ilien-ti
three-ORD

| aya-ni | belem | sagdi | we:-i |
| :--- | :--- | :--- | :--- |
| year-3SG | more | large | garden-1SG | ede-wey-ki-mi. become-CAUS-PAST-1SG

'The third year I made my garden (even) larger.'

```

\subsection*{16.1.3.3. Transitive verbs}

Causative verbs derived from transitives are at least three-place. In this construction, the agent argument corresponds to the grammatical relation of subject, the patient/theme corresponds to the direct object noun phrase and is encoded by the Accusative case. There are two options for encoding the causee argument.

\subsection*{16.1.3.3.1. Direct object causee}

The causee may be encoded by the Accusative noun phrase in the same way as the causee in intransitive Causative constructions (16.1.4.2). In this case, the construction appears to include two Accusative noun phrases ("double object", cf. 16.2.1).
```

(1167)a. Sita-wa-ni tege-we-ni
child-ACC-3SG gown-ACC-3SG
teti-gi-wen-ki-ni.
wear-REP-CAUS-PAST-3SG
'She put a dress on a child.'
b. Bi aziga-\etai-we-i tege-we
me girl-AL-ACC-REF gown-ACC
teti-gi-ne-wen-e-i.
dress-REP-DIR-CAUS-0-1SG
'I am going to put a gown on my daughter.'
c. Jegdige eze lauzi-wa-ni lala-wa
hero czar servant-ACC porridge-ACC
diga-wa\eta-ki-ni.
eat-CAUS-PAST-3SG
'The hero fed porridge to the czar's servant.' (SKX 112)

```

Both the causee-object (1168) and the non-causee object (1169) may be coreferentially dropped from the clause.
```

(1168)a. Zeu-we diga-wa\eta-ka-i?
food-ACC eat-CAUS-PERF-2SG
'Did you feed (him) with food?' (K 170)
b. Uta-digi tene ag'a-ni mamasa-ni men-e
that-ABL CONT brother-3SG wife-3SG REF-0
tege-we teti-we\eta-ki-ni
gown-ACC dress-CAUS-PAST-3SG
diga-la:-ni bue-ni.
eat-PURP-3SG he-3SG
'Then the wife of her elder brother made her put on the clothes so
that she (could) eat.' (K 140)
c. Bi begdi-we-i akinda-wa\eta-ka-i.
me leg-ACC-1SG wound-CAUS-PERF-2SG
'You made me wound my leg.' (K 150)

| (1169) Tukca-ziga | olokto:-ti | zeu-we, | jegdige-we <br> hare-PL |
| ---: | :--- | :--- | :--- |
| cook.PAST-3PL | food-ACC | hero-ACC |  |

    diga-wa\eta-ki-ti.
    eat-CAUS-PAST-3PL
    'The hares cooked the food and fed the hero.' (K 155)
    ```

\subsection*{16.1.3.3.2. Indirect object causee}

The second option for the causee of the transitive constructions is to be encoded as the Dative indirect object, cf.:
```

(1170) a. Min-du guas'a timana gazi-wen-e-je.
me-DAT bitch tomorrow take-CAUS-0-IMP.2SG
'Let me take the bitch tomorrow.' (K 113)
b. Ma:ma, min-du gazi-wen-ze-i
grandmother me-DAT take-CAUS-SUBJ-2SG
in'ei-we timana.
dog-ACC tomorrow
'Grandmother, let me take the dog tomorrow.' (K 110)
c. Mafa mäwa-ni a:nta-du e-zu
bear heart-3SG woman-DAT NEG-IMP.2PL
ze-wen-e. J'e-we-ni-de
eat-CAUS-0 what-ACC-3SG-IND
e-zu ze-wen-e.
NEG-IMP.2PL eat-CAUS-0
'Don't let women eat the bear's heart. Don't let (them) eat
anything.' (K 131)

```
\begin{tabular}{lll} 
d. & Bi men-e \(\quad\) sita-du-i & suala-wa \\
me REF-0 \(\quad\) son-DAT-REF & ski-ACC \\
teti-wen-ki-mi. & \\
dress-CAUS-PAST-1SG & \\
'I put skis on my son.' &
\end{tabular}
16.1.3.3.3. Direct object causee vs. indirect object causee

The basic difference between the transitive causative constructions with the direct object causee, on the one hand, and the indirect object causee, on the other hand, is that the former have only a factitive meaning while the latter allow both a factitive and permissive meaning.
(1171)a. Bi Iwana-wa bu-gi-wey-ki-mi
me Ivan-ACC give-REP-CAUS-PAST-1SG
kusige-we abuga-du.
knife-ACC father-DAT
'I made Ivan give the knife to his father.'
b. Bi bu-gi-wer-ki-mi
me give-REP-CAUS-PAST-1SG

Ivana-du
Ivan-DAT
kusige-we abuga-du. knife-ACC father-DAT
'I made/let Ivan give the knife to his father.'
Other examples that make clear the permissive meaning of constructions with the Dative causee are:
(1172) a
Sä:-wa
shoulder-ACC
diga-wan-a.
eat-CAUS-0
'Don't let anybody eat the (animal's) shoulder.'
b. Bi exi-mi ñ'aula-wa činda-du
me sister-1SG child-ACC bird-DAT
na:ma-wan-a:-ni.
curse-CAUS-PAST-3SG
'My sister let the bird curse the children.' (K 168)
c. Bi Iwana-du kusige-we
me Ivan-DAT knife-ACC bu-wey-ki-mi abuga-du.
give-CAUS-PAST-1SG father-DAT
'I asked Ivan to give a knife to my father.'
\(\begin{array}{lll}\text { d. } & \mathrm{Ni}-\mathrm{du} \text {-de } & e \text {-zi-u }\end{array} \quad \begin{aligned} & \text { sa-wan-a. } \\ & \\ & \text { who-DAT-IND }\end{aligned} \quad\) NEG-IMP-2PL \(\quad\) know-CAUS-0 'Don't let anybody know this.'

Even when constructions with an indirect object causee have a factitive interpretation, they seem to differ from constructions with a direct object causee in the degree of activity of the causee argument. The indirect object encodes a less active and often less volitional participant than the direct object. Compare (1173a) and (1173b) and also (1174) where the translation suggests that the causee was actively involved in the action (an indirect object causee is not possible in this case).
```

(1173) a. Min-e-we diga-wan-a-ja.
me-0-ACC
eat-CAUS-0-IMP.2SG
'Make me eat.'
b. Min-du diga-wan-a-ja.
me-DAT eat-CAUS-0-IMP.2SG
'Feed me.' (meaning: give food to me)

```
(1174) Enije sita-i cei-we diga-way-ki-ni.
    mother son-1SG soup-ACC eat-CAUS-PAST-3SG
    'The mother forced her son to eat soup.'

With verbs that do not presuppose the active involvement of the causee argument in the action, such as ise-wen- 'make see, show', sa-wan- 'make know, inform', only the indirect object causee is acceptable.

\subsection*{16.1.3.4. Passive Causative constructions}

In transitive causative constructions both the causee argument (1175a) and the regular direct object (1175b) can passivize.
\begin{tabular}{lllll} 
(1175) a. & Si belesi-e-i & dalinkadi & bi & oño-wo \\
& you help-PP-2SG & thanks & me & letter-ACC
\end{tabular}

> oño-u:ท-ki-mi.
write-PAS.CAUS-PAST-1SG
'Thanks to your help I wrote the letter (literally: I was caused to write the letter).'
b. Ń'aula-wa činda-du ña:ma-u-wan-a:-ni. child-ACC bird-DAT curse-PAS-CAUS-PAST-3SG 'Children were cursed by the bird (literally: caused to be cursed).' (K 16832)

The indirect object causee does not passivize, like other indirect objects (15.2), cf.:
(1176) *Činda-wa birdy-ACC child-ACC curse-PAS-CAUS-PAS-3SG
'The bird was caused to curse children.'

\subsection*{16.1.4. Decausative}

By Decausative we will mean an originally two-place situation which is conceived without an agent participant, while the original direct object is considered to be performing the corresponding action by itself. The base verb, therefore, must take at least two arguments. Decausativization is encoded by the suffix \(-p t A-/-k t A-\) or \(-k p i\) - in a verbal form (8.2.1.3). Note that the semantically close Reflexive meaning (that is, when the agent (subject) is coreferential with another participant in the sentence) is not marked in the verbal form. We therefore do not consider it a voice operation, and discuss it in Chapter 22.

\subsection*{16.1.4.1. Decausative construction}

Decausative verbs are obviously intransitive. The grammatical relation of the subject corresponds to their single argument. In Udihe only \(3^{\text {rd }}\) person subjects seem to be allowed in such constructions, and therefore the verb takes \(3^{\text {rd }}\) person agreement affixes. The independent character of the action may be emphasized with the emphatic reflexive pronoun men-e 'by itself' (1178).
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1177) a .} & Mäna flower & mantila-pta: spill-DEC.P & T-3SG & \multicolumn{2}{|l|}{(or: mantila-kpi-e-ni). spill-DEC-PAST-3SG} \\
\hline & 'The flo & spilled out.' & & & \\
\hline \multirow[t]{2}{*}{b.} & \[
\begin{aligned}
& \text { Čaja } \\
& \text { tea }
\end{aligned}
\] & olokto-kpi:-ni cook-DEC-3 & & & \\
\hline & \multicolumn{5}{|l|}{'The tea is being cooked.'} \\
\hline \multirow[t]{4}{*}{c.} & \[
\begin{aligned}
& \text { Ogbö } \\
& \text { elk }
\end{aligned}
\] & \begin{tabular}{l}
eni-ni \\
female-3SG
\end{tabular} & \multicolumn{3}{|l|}{\begin{tabular}{l}
xokto-lo-ni \\
path-LOC-3SG
\end{tabular}} \\
\hline & \multicolumn{5}{|l|}{nodo-pto--ti.} \\
\hline & \multicolumn{5}{|l|}{lose-DEC.PAST-3PL} \\
\hline & \multicolumn{5}{|l|}{'They were lost on the path of the female elk.' (K170)} \\
\hline d. & \begin{tabular}{l}
Bue-ni \\
he-3SG
\end{tabular} & \begin{tabular}{l}
mede-mpe-n \\
learn-DEC-
\end{tabular} & \begin{tabular}{l}
\(n i\) \\
PAST-3SG
\end{tabular} & uti that & \begin{tabular}{l}
getu-le. \\
PL-LOC
\end{tabular} \\
\hline & 'He wen & get informed & them.' & & \\
\hline
\end{tabular}
\begin{tabular}{rlll} 
(1178) a. & Wopti men-e & kimpigi-pte:-ni. \\
& door \(\quad\) REF-0 & close-DEC.PAST-3SG
\end{tabular}

\subsection*{16.1.4.2. Perception verbs}

The verbs ise-pte- 'be seen', düi-pte- 'be heard', and b'a-pta-/b'a-kta- 'smell' (intransitive) are used especially frequently (1179). Particularly frequent they are in the Habitual aspect either as a bare stem (1180) or as the Present active participle (1181).
(1179) a. Zugdi ise-pte-li-ge.
house see-DEC-INC-PERF
'The house became seen.'
b. Abdu-ni düi-pti:-ni necklace-3SG hear-DEC-3SG
cener-cener.
'Her necklace is heard to be ringing.' (K 160)
\(\begin{array}{llll}\text { c. } & \text { Bui } & \text { xokto-ni } & \text { ge:-zi } \\ & \text { animal } & \text { trace-SG } & \text { bad-INST }\end{array}\) see-Dte-ini. \(\quad\) se-3SG 'The animals' traces are badly seen.'
d. Roza xu:-ŋi-ni b'a-kta-ini ketu aja. rose smell-AL-3SG smell-DEC-3SG very good 'The rose smells very good.'
(1180) a. J'eu-de ise-pte.
what-IND see-DEC
'Nothing is seen.'
b. Aja düi-pte.
good hear-DEC
'It is well heard.'
(1181) Nequ-i
younger.sibling-2SG bubu.
sula-ni čomö-ni ise-pte-i ski-3SG tip-3SG see-DEC-PRP

EV
'The tips of your younger brother's skis are seen.' (K 128)

\subsection*{16.1.5. Reciprocal}

Reciprocal derivation is marked by the suffix -masi- attached to the verb (8.2.1.1). The Reciprocal verb in Udihe always takes Plural agreement inflections, although the subject need not have a Plural form.

In the Reciprocal construction an action is performed by two or more participants upon one another. The situation must have at least two animate participants and be symmetrical in the sense that they are both involved in it in the same way. Both transitive and intransitive verbs can reciprocalize provided they are not subject to any semantic constraints. Both the second argument (the direct object) and the third argument (the indirect or oblique object) can be involved in the reciprocal relation. Reciprocal constructions fall into three types: (i) reciprocalization of the direct object of two-argument transitive verbs; (ii) reciprocalization of the indirect object of two-argument intransitive verbs; and (iii) reciprocalization of the indirect object of three argument transitive verbs. Reciprocalization of the first and the second argument (the direct object) leads to detransitivization of the base verb. Morphological Reciprocals are not used for reciprocalization of a possessor or adjuncts; reciprocalization of these elements does not involve a change in the verbal form (see 22.4).

The only possible syntactic antecedent to all types of reciprocalization is the subject. Reciprocal structures without an overt antecedent occur only if the subject is dropped under coreference. Across-clause reciprocalization is impossible.

\subsection*{16.1.5.1. Reciprocalization of the indirect object}

\subsection*{16.1.5.1.1. Intransitive verbs}

As mentioned in 8.2.1.1, some intransitive verbs can undergo morphological reciprocalization with the suffix -masi-. Examples (1182) present two-argument intransitive verbs: the verbs xuli- 'go, visit' and bagdi- 'live', which take the Locative argument; and the verb zima- which takes example the Instrumental.
(1182) a. Nua-ti tutulu xuli-masi:-ti.
he-3PL always walk-REC-3PL
'They always visit each other (go to each other).'
b. Nua-ti utebe bagdi-masi:-ti.
he-3PL so live-REC-3PL
'So they live at each other's place (alternately).'
c. Nua-ti men-e do-lo zima-si-masi--ti.
he-3PL REF-0 inside-LOC visit-IM-REC-3PL
'They visit each other.'

\subsection*{16.1.5.1.2. Transitive verbs}

In (1183) we present examples of reciprocalization of the third argument of three-place transitive verbs. The reciprocalized argument is the Locative (1183a), the Lative (1183b) and (1183c), and the Ablative (1183d).
```

(1183)a. Nua-ti men-e do-lo tutulu gele-masi--ti
he-3PL REF-0 inside-LOC always ask-REC-3PL
kusige-we.
knife-ACC
'They always ask each other for a knife.'
b. Nua-ti men-e do-lo zeu-we
he-3PL REF-0 inside-LOC food-ACC
nexu-masi:-ti.
bring-REC-3PL
'They bring each other food.'
c. Kaja-sa-masi-e-ti.
send-EXP-REC-PAST-3PL
'They were sending (her) to one another.' (K174)
d. Lepeška-we titt-masi--ti.
flat.cake-ACC take.away-REC-3PL
'They take the flat cake away from each other.'

```

\subsection*{16.1.5.2. Encoding of the counteragent participant}

In the Reciprocal construction the secondary argument (the counteragent of mutual action) can be expressed in several formal ways, the choice generally depending on the degree of activity of the two participants in the situation described. The encoding of the counteragent participant is formally similar to the encoding of the secondary argument of non-reciprocal symmetrical verbs (14.3.4.2, 16.2.3). They may both be encoded by the Instrumental noun phrase, the Plural subject, a coordinated structure, or the postpositional phrase with the postposition mule 'with'. The difference, however, is in the verbal form: morphological reciprocals are always in the Plural, while non-reciprocal symmetrical verbs take a Plural agreement affix only if the subject is formally Plural.

\subsection*{16.1.5.2.1. Instrumental noun phrase}

The secondary participant may be encoded as an Instrumental noun phrase. This is generally possible when the reciprocal situation is initiated or controlled
by the first participant (the Nominative subject in the singular) who is therefore regarded as more active than the second participant.
a. Sama
ogzo-zi
b'a-si-masi-e-ti.
shaman spirit-INST find-IM-REC-PAST-3PL
'Shamans used to meet spirits.'
b. Gionka Pioŋka-zi zogzo-masi-e-ti.
Gionka Pionka-INST quarrel-REC-PAST-3PL
'The Gionkas had a quarrel with the Pionkas.'
c. Ag'a min-zi kusige dieleni
brother me-INST knife because
ñagda-masi-e-mu.
curse-REC-PAST-1PL.EX
'My brother had a row with me because of the knife.'
\(\begin{array}{llll}\text { d. } & \text { Pakula } & \text { tukca-zi } & \tilde{n} a:- \text { masi-e-ti. } \\ \text { Pakula } & \text { hare-INST } & \text { curse-REC-PAST-3PL }\end{array}\)
'Pakula had a row with the hare.'

\subsection*{16.1.5.2.2. Plural}

If the subject is in the plural, the situation is perceived with the equally active participation of both participants, cf.:
(1185) a. Gida-zi gida-masi-e-ti.
spear-INST spear-REC-PAST-3PL
'They were throwing spears at each other.' (K 177)
b. B'ata-ziga saptu-masi-e-ti.
boy-PL fist-REC-PAST-3PL
'The boys beat each other with fists.'
c. Nua-ti ñuga-si-masi:-ti.
he-3PL kiss-IM-REC-3PL
'They are kissing each other.'
The secondary participant can be specified by the postpositional phrase with the postposition mule 'with' (on this postposition see 10.2.2.2.4) if two participants are related by close family association.
(1186) Nua-ti sita mule naa:-masi-e-ti. he-3PL son with curse-REC-PAST-3PL 'They had a row with his son.'

\subsection*{16.1.5.2.3. Several participants}

The Reciprocal situation does not necessarily involve only two participants. without an additional indication the construction is in fact ambiguous and may refer to more than two participants, although two seems to be the default interpretation. When it is necessary to emphasize the number of participants, an overt numeral can be used. In (1187) the Reciprocal situation pertains to three participants, as is clear from the nearest left context. In (1188) the number of participants is overtly indicated by the Collective numerals di:n-tuje 'four' and zune 'two, both'.
```

(1187)Omo ni: zu: ni:-we b'a-si-e-ni.
one man two man-ACC find-IM-PAST-3SG
Telu\etau teluyu-masi-e-ti.
story story-REC-PAST-3PL
'One man met two men. They told stories to each other.' (K 175)
(1188)a. Di:n-tuye sa-masi-ti.
four-COL know-REC-3PL
'The four people know each other.'
b. Nua-ti zuye jexe-masi--ti.
he-3PL both sing-REC-3PL
'Two of them sing to each other.'
c. Zu\etae zuza-masi-e-ti.
both quarel-REC-PAST-3PL
'They two were quarrelling.'
d. Zuye ima-si-masi-e-ti.
both tell-IM-REC-PAST-3PL
'They tell tales to each other.'

```

\subsection*{16.1.5.3. Additional Reciprocal markers}

The Reciprocal construction with the Plural subject may include the Accusative Reciprocal pronoun meffe)i(-mef(e)i) (9.3). It is especially common in the reciprocalization of the Accusative argument of transitive verbs (1189), but is not limited to these cases. The formally Accusative Reciprocal pronoun may indicate that an argument other than the direct object is involved in the reciprocal relation, for example, the initial Instrumental object (1190a) or Locative object (1190b). However, it is by no means obligatory.
(1189) a.
\begin{tabular}{lll}
\(B u \quad\) mefei-mefei & bele-masi- \(u\). \\
we.EX REC-REC.ACC.PL & help-REC-1PL.EX \\
'We help each other.'
\end{tabular}

\section*{b. Bu mefei-mefei nodo-masi-e-mu. we REC-REC.ACC.PL lose-REC-PAST-1PL.EX 'We lost each other.'}
(1190) a. Nua-ti mefei-mefei jele-masi--ti. he-3PL REC-REC.ACC.PL be.afraid-REC-3PL 'They are afraid of each other.'
\begin{tabular}{lll} 
b. & \begin{tabular}{l} 
Nua-ti \(\quad\) mefei-mefei \\
the-3PL \(\quad\) REC-REC.ACC.PL
\end{tabular} & xuli-masi--ti. \\
go-REC-3PL
\end{tabular}

Similarly, the reciprocal relationship may be additionally marked by the postpositional expression men-e do-lo literally 'within themselves', cf.:
> ) Men-e do-lo aju-masi:-ti.
> REF-0 inside-LOC love-REC-3PL
> 'They love each other.'

The expression men-e do-lo frequently occurs in the reciprocalization of the third argument of transitive verbs, see examples in 16.1.6.1.2.

\subsection*{16.2. Valence changes not driven by voice}

This section focuses on sentence constructions that demonstrate an alternative distribution of the semantic roles over grammatical relations in comparison to the valence patterns described in Chapter 14. Since the verbal form remains unchanged, it is not treated as a voice-related alternation.

\subsection*{16.2.1. Double object construction}

Udihe possesses a double object construction that acts as alternative means of encoding the direct object. From the material at our disposal it is difficult to estimate the regularity of this construction; neither can we tell how it is motivated from the point of view of semantics or information structure. On grammatical relations in double object constructions see 15.2.

\subsection*{16.2.1.1. "Possessive" double object construction (possessive raising)}

This is another way of expressing the object relationship for a possessive noun phrase. A possessive noun phrase in the Accusative, for example uti cobo-wo-ni 'its claws' <that claw-ACC-3SG>, encodes the grammatical relation of the direct object within a single object construction. Alternatively,
the same relationship can be expressed by a double object construction in which the possessor raises to the argument role. The Accusative marks two noun phrases that correspond to the possessive modifier and the head noun of the original possessive noun phrase; the possessive marking is preserved (uta-wa 'that' and cobo-wo-ni 'claws').

This type of double object construction will be referred to as "possessive". It seems to appear when the relationship between two objects can in principle be encoded by a possessive noun phrase. Normally the relationship between the modifier and the head noun is that of inalienable possession, involving body parts and the like (1192) or the relationship between a measurement and its object (1193). For example, in (1193a) the two objects can be interpreted as components of the possessive of the noun phrase zugdi-ziga sagdi-le-we-ti 'the size of the houses.'
```

(1192)

| G'ai-wa | wa:-k, |  | cobo-wo-ni |
| :--- | :--- | :--- | :--- |
| crow-ACC | kill.PAST-EXPR | claw-ACC-3SG |  |
| xuaj-e-k, | to:-wo | ila:-k |  |
| cut-PAST-EXPR | fire-ACC | kindle.PAST-EXPR |  |
| dag'a-si | cobo-wo-ni | uta-wa. |  |
| burn.PERF-PC.SS | claw-ACC-3SG | that-ACC |  |

    'They kill a crow, cut its claws, kindle the fire, and burn its claws.'
    b. Uta-wa-da dili-we-ni piokoli-e-ni.
    that-ACC-FOC head-ACC twist-PAST-3SG
    'He twisted its head.' (SKX 108)
    c. Imexi ule-we xu-me-ni
    new meat-ACC smell-ACC-3SG
    b'an-zi: kogdo-li-eni.
    get.PP-INST.SS scream-INC-PAST-3SG
    'He smelt the smell of the fresh meat and started screaming.'
    (SKX 206)
    d. To: egelie xuli-mi se\etakie-we
    fire around walk-INF ledum-ACC
    sa\etaña-wa-ni \etaiei-si-mi.
smoke-ACC-3SG smell-IM-INF
'He is walking around the fire smelling the smoke from the ledum.'
(SKX 214)

| (1193) a. | Ei | zugdi-ziga-we | sagdi-le-we-ti |
| :--- | :--- | :--- | :--- |
|  | this | house-PL-ACC | big-N-ACC-3PL |
|  | adi | metra-zi | wo:-ti ? |
|  | how.many meter-INST make.PAST-3PL |  |  |
|  | 'How many meters wide did they make these houses?' |  |  |

```
\begin{tabular}{lll} 
b. & Ag'a-ni & mamasa-ni omo minga \\
elder.brother-3SG & wife-3SG one thousand \\
da:-wa & xuku-we & zaw'a-si \\
fathom-ACC & rope-ACC take-PC.SS \\
zugdi-we & mongolie-mongolie & xeke:-ni. \\
house-ACC & around-around & tie.PAST-3SG \\
'The elder brother's wife took a thousand fathom rope and tied it \\
around the house.' (SKX 110)
\end{tabular}

\subsection*{16.2.1.2. "Non-possessive" double object construction}

The non-possessive double object constructions appear when the noun phrase that corresponds to the second object plays a case role (normally, that of location) within the alternative single object construction. The following verbs allow a non-possessive double object construction:
\begin{tabular}{ll} 
(1194) \begin{tabular}{l} 
nede- \\
gene- \\
zawa-
\end{tabular} & 'put something on something' \\
kuygede- & 'bring something from something' \\
teti- & 'pour something on something' \\
xeke- & 'put something on somebody' \\
gazi- & 'tie something on something' \\
(j)unkäla- & 'bring something from something' \\
oño- & 'parry something or somebody on a sledge' \\
teu-tu:- & 'fill something with something; keep something in \\
& something'
\end{tabular}

These verbs either take a third Locative argument or are compatible with the Locative adjunct. Alternatively, the initially Locative participant may be encoded as the second object, cf. (1195a) and (1195b).
(1195) a. Bi takana-la moloko tu:wo:-mi. me glass-LOC milk fill.PAST-1SG
'I filled the glass with milk.'
b. Bi mulexi: täs(i) uli-we tu:wo:-mi.
me bucket.REF very water-ACC fill.PAST-1SG
'I filled my bucket with water.'
In this type of double object construction, neither of the two objects bears a possessive affix.


In many cases the relation between two direct objects is that of content and container.

e. Sugzä:-wa omo ob'o-wo gazi-e-ni.
fish-ACC one hook-ACC bring-PAST-3SG
'She brought one hook of fish.' (K 126)
f. Bi:-si-ni zugu bua-digi
be-PC.DS-3SG otter place-ABL
ilakta-nie-ni omo uge-we sugzä-wa
appear-REP.PAST-3SG one hook-ACC fish-ACC
gazi-na:-da.
bring-PC.SS-FOC
'After a while the otter appeared again from the outside having brought one hook of fish.' (SKX 74)
g. Banza keŋku-we-ni moloko-wo
bottle empty-ACC-3SG milk-ACC
teu-si-se-we wende-le:-mi.
fill-IM-PP.PAS-ACC throw.PAST-SING-1SG
'I threw away the empty milk bottle (literally: which they fill with milk).'
h. Wakča-i ni: tuxi täsi ule-we
hunt-PRP man sledge very meat-ACC
teu-ge-si uŋkäla:-ni.
fill-PERF-PC.SS carry.PAST-3SG
'The hunter filled the sledge full of meat and carried it.' (SKX 210)

\subsection*{16.2.2. Destinative construction}

In the Destinative construction the patient/theme argument of the transitive verb is represented by the destinative object. The destinative object is encoded by the Destinative possessive noun phrase. This is a type of possessive noun phrase in which the possessive modifier expresses a potential recipient (benefactive) of the object, while the head noun (the object itself) is marked by the Destinative case and the possessive affix that refers to the modifier. The destinative construction is not indicated by a change of verbal valency; the question whether the Destinative object takes a recipient valency or not will be left open. On the syntactic properties of the destinative object see 15.2.2.

Only certain two-argument transitive verbs, namely verbs of appearance and creation, take the Destinative object. A list of these verbs is presented in 14.3.1.3. Similar behavior is observed with the three-argument verb wo:'make' which belongs to type 14.4.2. Other argument transitive verbs do not allow a Destinative object. Personal pronouns do not take the Destinative case (9.1.1) and cannot function as Destinative objects.

\subsection*{16.2.2.1. Animate benefactive}

In most cases the recipient of the Destinative object is an animate entity. It is referred to by personal affixes on the Destinative object (1198) and can also be overtly present in the clause (1199). When the potential recipient is coreferential with the subject of the same clause, this is marked by reflexive possessive affixes on the Destinative object (1200).
```

(1198)Bi nexu-ze-mi diga-laga-ti
me bring-SUBJ-1SG eat-PURP-3PL
zeu-\etai-ne-ti.
food-AL-DEST-3PL
'I will bring them food so they can eat.'
(1199)a
Bi zugdi-ne-i
me house-DEST-1SG
'They are building a house for me.'

| b.Kuliga zugdi-ne-ni <br> snake house-DEST-3SG | wo-zo-fi <br> make-SUBJ-1PL.IN | zugdi <br> house |
| :--- | :--- | :--- | :--- |

    malu-le-ni.
    corner-LOC-3SG
    'Let us build a house for the snake in the comer of the house.'
    c. Su mafa-na-u b'a:-mi.
    you.PL husband-DEST-2PL find.PAST-1SG
    'I found a husband for you.' (K 137).
    d. Aziga mafa-na-ni gen-e-mi.
    girl husband-DEST-3SG fetch-0-1SG
    'I am going to fetch a husband for the girl.' (K 137)
    e. Bi nua-ti uyta-na-ti wo:-mi.
    me he-3PL boot-DEST-3PL make.PAST-1SG
    'I made them boots.'
    f. Bi u\etata-na-i wo-jo.
    me boot-DEST-1SG
    make-IMP.2SG
    'Make boots for me.'
    ```


\subsection*{16.2.2.2. Inanimate goal}

In (1201) examples of the inanimate modifier of the destinative object (meaning a general destination) are presented.
```

(1201)a. Nua-ni suese xei-ne-ni
he-3SG axe handle-DEST-3SG
'He is making a handle for the axe.'
b. Ulikte shaman.lard head-DEST-3SG duo-ni wo-iti. shape-3SG make-3PL

```
'They make the head for the shaman lard in the shape of a snake's head.'
c. \(B u\)-je
give-IMP.2SG me-DAT awl belt
saya-na-ni wo-logo-mi nixe-mi. hole-DEST-3SG do-PURP-1SG do-1SG
'Give me an awl, I am going to make holes in the belt (literally: for the belt).'
d. \(B i\) od'o- \(i\)
me grandfather-1SG
xei-ne-ni
handle-DEST-3SG gäma-zi kusige bone-INST knife wo:-ni. make.PAST-3SG
'My grandfather made a handle for a knife from the bone.'
e. Jaŋpa
shaman.belt
kuliga-wa
snake-ACC
'They used to make a shaman's belt of skin (in the shape) of a snake.' (SK 689)

\subsection*{16.2.3. Symmetrical verbs}

Verbs referring to a symmetrical naturally reciprocal situation (14.3.4.2) allow an alternative expression of the secondary argument. This second argument (counteragent) is commonly expressed by the Instrumental noun. This typically signifies that the subject participant is more "active" in the described situation than the counteragent participant. The alternative encodings are presented below. Normally they indicate that both participants are equally involved in the reciprocal event.

\subsection*{16.2.3.1. Postpositions mule and zuye 'with'}

The comitative argument can be expressed by a postpositional phrase with the postposition mule or zuye 'with'. The postpositional phrase is in this case an argument and cannot be omitted. In this it differs from the formally identical comitative phrase functioning as an adjunct (10.2.2.2.4). Both the subject and the verb may be in the Singular or Plural.

The postposition mule is only possible with two participants who form a natural pair of relatives or close friends (a further description of such a postpositional phrase can be found in 10.2.2.2.4 and 13.5.1). The postposition zuye 'with, both' does not necessarily involve a close (family) relationship between the two participants (as mule does), see (1202). The subject may be coreferentially omitted (1203e). This blocks the possibility to analyze the comitative postpositions as coordinative elements.


\subsection*{16.2.3.2. Plural}

The secondary argument can be suppressed and replaced by the Plural subject cf.:
\begin{tabular}{lll} 
(1204)a. & \begin{tabular}{l} 
Zu: \(n i: \quad\) zä: diele-ni
\end{tabular}\(\quad\) w'ali:-ti. \\
& two man money because-3SG fight-3PL
\end{tabular}

\subsection*{16.2.4. Locative object construction}

A few transitive verbs that normally take the Accusative direct object (14.3.1) may follow another pattern. Their second argument (the patient) can be encoded by the Locative noun phrase. Such an argument is normally the head of a possessive construction and denotes a body part. Examples of such verbs are:
(1205) zawa-zawa-si'take' juŋkäla- 'pull' pakta(n)-
'take hold of' ikteme- 'bite'

If the second argument of these verbs is not a body part, the verbs are transitive; they take the Accusative argument and follow the valence pattern discussed in 14.3.1. On the other hand, examples such as those below cannot be characterized as possessor raising because the possessor keeps its syntactic function and does not get promoted to a verbal argument itself. The possessor noun phrase can in fact be absent from the sentence and be referred to only by the possessive affix, as shown in (1206a-1206e). In (1206f), however, it is overtly present in the Accusative form.

\footnotetext{
In'ei
bi yala-la-i
ikteme-le:-ni.
dog me hand-LOC-1SG
'The dog bit my hand.'
\(\begin{array}{llll}\text { b. } & \text { Kanda } & \text { mafa } & \text { nua-ni }\end{array} \quad \begin{aligned} & \text { ku'ai-la-ni } \\ & \text { Kanda } \\ & \text { old.man }\end{aligned} \quad\) he-3SG \(\quad\) ear-LOC-3SG
zawa:-ni.
take.PAST-3SG
'The old man Kanda caught it (a hare) by its ear.'
}
\begin{tabular}{lll} 
c. \begin{tabular}{ll} 
Ono & dogbo-gi-e-ni \\
how & night-REP-PAST-3SG
\end{tabular} & täk-täk \\
fast-fast
\end{tabular}
\begin{tabular}{ll} 
zawa-si-je & tege-le-i. \\
hold-IM-IMP.2SG & gown-LOC-1SG
\end{tabular}
    'When the night comes, take hold of my gown.'
d. Bugdi-le-ni zawa-kca:-ni.
    leg-LOC-3SG take-INT.PAST-3SG
    'He wanted to take her leg.'
    e. Mafa nala-la-ni ikteme:-ni.
    old.man hand-LOC-3SG bite.PAST-3SG
    'The bear bit his hand.' (K 176)
f. Aziga-wa jala-la-ni juŋkäla-gi:.
    girl-ACC hand-LOC-3SG pull-REP.PRP
    'He is pulling the girl by the hand.'
g. Uta-wa olou-zi paktay-ki-ni
    that-ACC hook-INSTR hit-PAST-3SG
    ku'ai-la-ni p'ali-gda-da.
    ear-LOC-3SG black-FOC-FOC
    'He hit its black ears with the hook.' (SKX 256)

\subsection*{16.2.5. Agentless construction}

In the active agentless construction the verb in a certain temporal form (normally, the Present or the Past, and only rarely the Future) takes the \(3^{\text {rd }}\) person Plural agreement affixes. The subject argument is absent and cannot be retrieved from the context because the agent has a generic or an indefinite interpretation. The encoding of other arguments does not differ from their encoding in direct voice constructions.

The meaning of the active agentless construction is thus very close, and sometimes identical, to the meaning of the Agentless Passive described in 16.1.2. Given this, one might suspect that the Impersonal active construction has developed under the influence of Russian syntax, where exactly the same construction is found. However, in the modern Udihe active and passive agentless sentences differ in two points: first, the active agentless construction does not seem to involve any modal implications; second, it is more likely to be used in a situation when the agent is referential but indefinite (that is, unknown to the speaker).

\subsection*{16.2.5.1. Referential indefinite agent}

The examples below show the agentless construction with the indefinite interpretation of the agent, in the Present (1207a), Past (1207b), and Future (1207c).
a.
\begin{tabular}{lll} 
Nua-ni \begin{tabular}{ll} 
ja:-wa-ni \\
he-3SG & eye-ACC-3SG
\end{tabular} & \begin{tabular}{l} 
coptoli-e-ti. \\
knock.out-PAST-3PL
\end{tabular} \\
'They knocked out his eye.' &
\end{tabular}
b. Ei tege-we seule-zi this gown-ACC silk-INST
wo:-ti. 'This gown is made of silk.'
c. O-du imexi škola-wa wo-zoyo-ti. this-DAT new school-ACC make-FUT-3PL 'Here they will build a new school.'

\subsection*{16.2.5.2. Generic agent}

Examples of the generic interpretation of the agentless active construction follow; (1208) exemplifies the Present tense and (1209) the Past tense.
(1208) a. O-du damisi--ti.
this-DAT smoke-3PL
'One can smoke here.'

c. Ei tenku-le te-iti.
this chair-LOC sit-3PL
'They sit on this chair.'
\begin{tabular}{lll} 
d. & \begin{tabular}{l} 
Nua-ma-ni
\end{tabular} & Sweta-zi \\
he-ACC-3SG & Sveta-INST & gegbesi:-ti. \\
call-3PL
\end{tabular}
e. \(\begin{array}{ll}\text { Xeleba-wa } & \text { kusige-zi } \\ \text { bread-ACC } & \text { knife-INST }\end{array} \quad \begin{aligned} & \text { xua-iti. } \\ & \text { cut-3PL }\end{aligned}\)
'They cut bread with a knife.'
(1209) a. Anana egdi-me su:le:-ti.
long.ago much-ACC be.ill.PAST-3PL
'Long ago people used to be ill a lot.'
\begin{tabular}{llll} 
b. Anana \(\quad\) xeleba-wa & waca-ma & diga:-ti. \\
long.ago bread-ACC little-ACC \\
'Long ago people used to eat little bread.'
\end{tabular}

\section*{Chapter 17 \\ Copular clauses}

Copular clauses vary greatly in their meaning, but generally speaking they tend to denote some kind of state. In this chapter they are unified only on formal grounds: the predicate includes two components, the copula, and the predicative phrase as such. Such constructions will be called "copular constructions". The copular constructions described in this chapter differ from analytical verbal forms that may include the same copula (such as, for example, the Pluperfect). The latter are the regular grammaticalized means of forming analytical verbal inflectional categories and are described in Chapter 7, while the copular constructions are free syntactic combinations of the copula and a separate lexical item with a predicative value. Although the predicative element tends to immediately precede the copula it may be postposed, as below, or separated by other lexical material.


In contrast, no other elements intervene between the two components of the analytical verbal category, and their order cannot be changed.

The copula in copular constructions behaves like regular verbs in the matrix or the subordinate clause with respect to word order and morphology. It takes the corresponding tense/aspect/mood or non-finite form and is marked for subject agreement. In section 17.1 we will describe the various types of copula.

Predicative elements of copular constructions usually belong to one of the following morphological classes: adjectives, nouns, some participles, or in rare cases, adverbs. In 17.2 different copular constructions are presented according to the valence patterns and further subtypes of the predicative element.
A number of copular constructions undergo formal restructuring due to processes of topicalization or focalization; these are addressed in 24.3.

\subsection*{17.1. Copula verbs}

The copula bi- 'be' has a default interpretation; that is, it does not bring any additional meaning to the construction. The same copular is also used in all analytic verbal categories addressed in Chapter 7. It is present either in one of
its personal forms (17.1.1), or in the impersonal Habitual form (17.1.2). The choice between the personal or the impersonal form of the copula 'be' is determined by the formal and semantic type of the construction itself. In most copular constructions the copula 'be' can be substituted for other copulas that add some further meaning. These formally behave as the copula 'be', and are dealt with in 17.1.3.

\subsection*{17.1.1. Personal copula bi-}

\subsection*{17.1.1.1. Forms}

With a few exceptions, the personal copula bi- has all the tense/aspect/mood categories described for regular verbs in Chapter 7, as well as all the non-finite forms typical of regular verbs. The derivational suffixes (like those addressed in section 8.11), except for the Causative, do not normally attach to the verb \(b i\)-. The stem formation of the verb \(b i\)-is irregular, and is discussed in section 7.1.4. The examples of inflectional forms of the verb bi-can be found in the corresponding section of Chapter 7. In (1211) we present examples for copular clauses in which the personal copula 'be' takes different morphological forms: the Purposive Converb in (1211a), the Conditional Converb in (1211b), and the Causative Subjunctive in (1211c).


On negation of the personal copula, see 23.2.1.5.3.

\subsection*{17.1.1.2. Surface absence of the copula}

In the \(3^{\text {rd }}\) person Present the copula is normally omitted, however its presence does not lead to ungrammaticality.
(1212)Kujka mo:-ni c'o sagdi (bi:-ni).
cedar tree-3SG most big be-3SG
'The cedar is the biggest tree.'
Other than in the \(3^{\text {rd }}\) person in the Present tense the personal copula bi- can occasionally be absent, as in (1213), but this is a fairly rare option.
```

(1213)Si kuliga, bi ni:-
you snake me man 'You are a snake and I am a man.'

```

In some constructions the personal copula must be overtly present, even in the \(3^{\text {td }}\) person Present tense (17.2.2.2 and 17.2.2.6).

\subsection*{17.1.1.3. Function}

The personal copula bi- is regular in all constructions with the Nominative (17.2.2) and Dative (17.2.3) subject, as well as in some subjectless constructions (17.2.1). All of them denote identification and some sort of temporary state.

\subsection*{17.1.2. Impersonal Habitual copula bie}

\subsection*{17.1.2.1. Forms}

The Habitual copula has the form bie in the Present tense and (bie) bi-s'e in the Past (see 7.4.2.3). It is impersonal and does not take any agreement affixes. The Present active participle of the Habitual copula 'be' is also bie. In other tense/mood categories it does not have any special forms, that is, the difference between the Habitual and the non-Habitual copula is neutralized. The Habitual copula cannot be omitted from the sentence.

The Habitual copula is not negated with the regular negative verb like the personal verb 'be' (17.1.1), but with the impersonal negative copula anči. The two semantic types (existential and non-existential/habitual) are negated in formally distinct ways, see 23.2.1.5. In non-negative sentences there is no formal difference between the existential and non-existential Habitual copula constructions.

\subsection*{17.1.2.2. Function}

In general, there are two basic meanings associated with the Habitual copula. First, it is used in existential constructions (17.2.1.3). Second, it is used in
constructions that normally express classification and describe a more or less permanent or inherent property (the Habitual meaning). The following copular constructions may express Habitual meaning by means of the Habitual copula: environmental construction (17.2.1.1), possessive construction (17.2.1.4), adverbial construction with postpositions (17.2.2.2.4), and construction with ideophones (17.2.2.6.2).

The difference between the personal and the Habitual copula can be illustrated by the following examples. Sentence (1214a) involves the Habitual copula bie and expresses the permanent characteristics of the subject, while (1214b) is produced in a situation when it characterizes the actual state at a definite moment of time (time of speech).
\begin{tabular}{lll} 
) a. & Uti & a:nta \\
this & woman
\end{tabular}
'This woman is vivid.'
\begin{tabular}{llll} 
b. \begin{tabular}{ll} 
Uti & a:nta \\
this & woman
\end{tabular} & \begin{tabular}{l} 
gar-gar \\
vivid-vivid
\end{tabular} & bi:-ni. \\
be-3SG
\end{tabular}
'This woman is vivid.'

\subsection*{17.1.3. Other copulas}

Other copulas can replace the Habitual or non-Habitual copula bi-. They have a specialized meaning, and are therefore never dropped from the surface. Morphologically they behave completely like regular verbs.

These copulas are based on the verbal stem \(e\) - (or \(o\) - in the Northern dialect) 'be'. The stems apparently derived from this base are ede-/odo-, esi-/osi-, egi-/ogi-, esigi-/osigi-. Basically, all of them have the meaning 'become', and express the beginning of the state. In the present state of the language the derivational relationships between them are not entirely transparent and we prefer to treat them as separate verbs rather than distinct derivational forms of the same verb. According to Schneider (1936), the verb o-do-/e-de-belongs to morphonological class II (that is, -de \(/-\) do- is a thematic element). As was mentioned in 8.1.1, in the modern language such verbs have moved into morphonological class I, and the thematic element has been reinterpreted as a part of the stem.

\subsection*{17.1.3.1. The copula \(e\)-/o- 'be'}

The stem \(e\)-/o- 'be' is mostly characteristic of the Northern dialect. In the Southern dialect it is practically obsolete now, its functions being taken over by the copula \(b i\) - 'be'. In (1215) it is exemplified in the Subjunctive form.
(1215) Bagdi: getu kese-lege-ti sulikta
live.PRP PL suffer-PURP-3PL intestine
bede o:-zo.
like become-SUBJ
'Be like an intestine, so that the living people suffer.' (K 108)
17.1.3.2. The copula ede-/odo- 'become, appear, turn out'

The copula ede-lodo- 'become, appear, turn out' describes the beginning of a state and is fairly frequent. It is available for practically all copular constructions.
```

(1216) a. Nua-ni sagdi ede:-ni.
he-3SG big become.PAST-3SG
'He became big.'
b. Čagza xegiezele odo-li:-si-ni
white below become-INC-PC-3SG
xenze-je.
attack-IMP.2SG
'If the white one ends up underneath (the other), attack.' (K 130)
c. Ma\etaga manga jegdige ede:-ni.
strong strong hero become.PAST-3SG
'He became a very strong hero.' (K 175)
d. Ni: čo: mahi odo-i ete-ze\etae-ni.
whomost strong become-PRP win-FUT-3SG
'Who turns out to be the strongest will win.' (SK 1072)

```

If the predicative element corresponds to a Nominative noun phrase this copular can express the appearance.
```

(1217) a. Xulepte-we
xuisi:-ni zäga ede-ini.
ash-ACC boil-3SG soda appear-3SG
'If one boils ash, soda appears.'
b. Di: kusikta-la ila kusikta-wa nede-mi
four nut-LOC three nut-ACC put-INF
nada kusikta ede-ini.
seven nut become-3SG
'If you add three nuts to four nuts, there are seven nuts.'
c. Ketu uligdig'a tege ede:-ni.
very beautiful gown become.PAST-3SG
'A very beautiful gown appeared.' (K 162)

```
\begin{tabular}{llll} 
d. \begin{tabular}{lll} 
Omo & zali & ede:-ni
\end{tabular}\(\quad\) ba:-la. \\
one & barn & become.PAST-3SG & place-LOC
\end{tabular} 'A barn appeared outside.'

\subsection*{17.1.3.3. The copula esi-/osi- 'become'}

The copula esi-/osi- with the meaning 'become' seems to be mostly characteristic of the Northern dialect.
(1218) a. \(K e:-i\)
xonto
osi:-ni.
voice-2SG different become-3SG
'Your voice became different.' (K 129)
\(\begin{array}{llll}\text { b. } & \text { Käu-käu } & \text { su:le-i ni: } & \text { osi:-ti } \\ \text { all-all } & \text { gune. } \\ & \text { be.ill-PRP } & \text { man be-3PL EV }\end{array}\)

\subsection*{17.1.3.4. The copulas ogi-/egi-, osigi-/esigi- 'remain; become'}

The meaning 'remain' is rendered by attaching the repetitive suffix -gi- to the copula esi-/osi- 'become' or e-/o- 'be'. This suffix expresses the idea of a return to the previous stage (8.2.2.8). No examples of the suffix -gi-, which could augment the verb ede-/odo- 'become' (or to the copula bi- 'be') are found.
\[
\begin{array}{lll}
\text { Teu } & \text { kenkume } & \text { o-gi-e-ni. }  \tag{1219}\\
\text { all } & \text { empty } & \text { be-REP-PAST-3SG }
\end{array}
\]
'They all remained empty.' (K 154)
b. Ila-ta
o:-gi-e-ni.
three-REST be-REP-PAST-3SG
'Only three (of them) remained.' (K 187)
\(\begin{array}{llll}\text { (1220) a. } & \begin{array}{l}\text { Di: osi-gi-e-ni-ke, } \\ \text { four }\end{array} \quad \text { remain-REP-PAST-3SG-FOC } & \\ & \begin{array}{l}\text { o-gi-e-ni. }\end{array} \\ & \text { be-REP-PAST-3SG } & \\ & \text { 'When only four remained, it became easier (for him to carry } \\ & \text { them).' (K 187) } & \\ \text { b. } & \text { Nua-ni mur-mur } & \text { esi-gi-e-ni. } \\ & \text { he-3SG teethless-teethless } \quad \text { become-PAST-3SG } \\ & \text { 'He was left without any teeth.' } & \end{array}\)
\(\begin{array}{lll}\text { c. } \begin{array}{l}\text { Eigankini } \\ \text { now }\end{array} & \begin{array}{l}\text { sagdinta } \\ \text { old.man }\end{array} & \begin{array}{l}\text { wac'a } \\ \text { little }\end{array} \\ \text { esi-gi-e-ni. } \\ \text { become-REP-PAST-3SG }\end{array}\)
'These days only a few old men remain.'
The construction may have an existential interpretation, cf. (1220c). Then it is negated with the impersonal negative word anči, which precedes the copula, cf.:
```

(1221)Eitene dawa anči esi-gi-e-ni.
now salmon no become-REP-PAST-3SG
'There is no salmon left now.'

```

\subsection*{17.2. Copular constructions}

A few predicative expressions are null-argument (17.2.1), however in most cases they take at least one argument. From the semantic point of view, this argument will be conventionally referred to as the experiencer. Syntactically, the experiencer participant may correspond to the Nominative subject (17.2.2), or, more seldom, to the Dative noun phrase characterized by certain subject properties (17.2.3). On the notion of subject see 15.1.1.

\subsection*{17.2.1. Subjectless constructions}

Subjectless copular constructions are based on null-argument predicative words. They do not occur in the Imperative or other oblique moods. Typically the Habitual copula is used, the personal copula is less frequent. The latter takes the \(3^{\text {rd }}\) person Singular personal form

\subsection*{17.2.1.1. Environmental construction}

This construction describes the calendar and meteorological phenomena, environmental conditions, or the setting of circumstances.

\subsection*{17.2.1.1.1. Predicative elements}

The predicative element in this case belongs to one of the three following types. It can be an adjective (1222a), a noun (1222b), or a reduplicated ideophonic stem (1222c).
(1222) a.
xekui
aja
'hot'
uligdig'a 'beautiful'
ineni 'cold'
\begin{tabular}{|c|c|c|c|c|}
\hline & \(g e\) : & 'bad' & ñaŋmu & 'clear' \\
\hline & tokö & 'cloudy’ & xakti & 'dark' \\
\hline & jegze & 'light' & & \\
\hline b. & dogbo & 'night' & bolo & 'autumn' \\
\hline & neki & 'spring' & tamña & 'fog' \\
\hline & edi & 'wind' & & \\
\hline c. & simu-simu & 'quite' & рou-pou & 'dark, foggy' \\
\hline & lou-lou & 'strong fog' & lina-lipa & 'sticky' \\
\hline & kulu-kulu & 'ready' & täk-täk & 'fast, hard' \\
\hline & teu-teu & 'quite' & kef-kef & 'trees fallen \\
\hline
\end{tabular}

\subsection*{17.2.1.1.2. The copula}

In the subjectless copular constructions for the environmental states the Habitual copula bie is commonly used (17.1.2). The personal (non-Habitual) copula occurs in subjectless constructions (in the \(3^{\text {rd }}\) person singular), but this is not a very frequent option. An example is (1224) where it has the Past form. The copula might be absent altogether, and this might in fact be a result of the omission of the personal copula in the Present tense (1225). There does not seem to be an apparent semantic difference between the Habitual and non-Habitual copular constructions in this case. Examples (1226) illustrate the copula ede- 'become', while example (1227) presents the copula osi- in the same meaning.
(1223)a. Zugdi
do:-ni
inside-3SG
'It is dark in the house.'
b. Libakta-la liya-lina bi-s'e.
mud-LOC sticky-sticky be-PERF
(1224) Ñaŋmu bi-si-ni.
clear be-PAST-3SG
'(The sky) was clear.'
(1225) a. Sikie .
evening
'It is evening.'
\(\begin{array}{llr}\text { b. } & \text { Zua we:-du } \\ \text { summer mountain-DAT } & \text { aja. } \\ \text { 'It is nice in summer in the mountains.' }\end{array}\)
a. Ineni ede-ini.
cold become-3SG
'It is becoming cold.'
b. Uligdig'a ede:-ni bi-s'e. beautiful become.PP-3SG be-PERF
'It has become beautiful (the nature, the weather).'
c. Xekui ede:-ni.
warm become.PAST-3SG
'It has become warm.'
\(\begin{array}{lll}\text { d. Deje-we } & \text { ila-gi-e } & \text { negze } \\ & \text { light-REP-IMP-2SG } & \text { DCC }\end{array}\)
ede-lege-ni.
become-PC-3SG
'Switch on the lamp in order for there to be light.'
(1227) Teu-teu osi:-ni.
quiet-quiet become-3SG
'It is becoming quiet.' (K 154)

\subsection*{17.2.1.1.3. Collocation with adverbials}

The sentences in question often include spatial adverbials that denote the place characterized by the corresponding setting (1228). In the absence of such an adverbial the sentence is likely to refer to a general meteorological or natural condition. In this case, as in non-copular subjectless sentences (14.1.1), the spatial adverb ba:-la 'outside' (literally: 'in the place, in nature') is frequently found (1229).
(1228) a. Tineni xekui bi-s'e. yesterday warm be-PERF 'It was warm yesterday.'
b. Pečka kä:-la-ni pam ede:-ni. oven side-LOC-3SG black become.PAST-3SG
'It became black by the oven (from ash).'
(1229) Ba:-la xakti ede:-ni.
place-LOC dark become.PAST-3SG
'It has become dark outside.'

\subsection*{17.2.1.2. Subjectless destinative construction}

Subjectless destinative constructions express the meaning 'it is meant to'. No element in the sentence exhibits the properties typical of the subject (15.1.1). In this way subjectless destinative constructions differ from another destinative participial construction in which a Nominative noun phrase bears the grammatical relation of the subject. For further information on the latter, see 17.2.2.4

The predicative element in such constructions is a Destinative Participle (7.6.1.3). The construction occurs only in the Present tense. The copula 'be' is not overtly present, which may suggest that we are here dealing with an underlying personal copula.

\subsection*{17.2.1.2.1. Collocation with other elements}

The sentences in question obligatorily include an oblique element that restricts the scope of the predication. It is expressed by a noun phrase the case marking of which depends on the case marking in the corresponding non-copular sentence. The participial destinative constructions inherit case marking from the corresponding non-copular construction, cf. examples (a) and (b) below.
(1230) a. Ei toni-le egbesi--ti. this lake-LOC swim-3PL 'They swim in this lake.'
b. Ei toni-le egbesi-kči.
this lake-LOC swim-DP
'It is meant to swim in this lake.'
(1231) a. Ei manguana-zi tuduze-we olokto-iti. this pan-INST potato-ACC cook-3PL
'They cook potatoes with this pan.'
b. Ei manguana-zi tuduze-we olokto-si-kči.
this pan-INST potato-ACC cook-IM-DP
'It is meant to cook potatoes with this pan.'
The Locative and the Instrumental noun phrases within the destinative construction are illustrated again in (1232a) and (1232b), respectively.
(1232) a. Ei teqku-le te:-kči.
this chair-LOC sit-DP
'It is meant to sit in this chair.'
b. Moxo-zi 'ai-wa umi-kči.
mug-INST vodka-ACC drink-DP
'It is meant to drink vodka from this mug.'

\subsection*{17.2.1.2.2. Grammatical relations}

The question which arises at this point is which grammatical relation is borne by an element like toyi-le 'in the lake' in (1230b). In (1230a) the noun phrase ei toni-le is apparently not an argument and can easily be dropped from the sentence without affecting its well-formedness. In the copular destinative construction, however, the same noun phrase is required for the well-formedness of the sentence, as distinct from (1230a). A sentence which consists only of the Destinative Participle, such as, for example (1233), would be ungrammatical.
(1233)*egbesi-kči. swim-DP

According to this criterion, the noun phrase toni-le should be identified as an argument rather than as an adjunct. It is also possible that it is a part of the predicative expression. However, its exact status as an argument is controversial, and we will leave this question open.

\subsection*{17.2.1.3. Existential construction}

The construction predicates the existence of a certain entity in general, in a particular location, or in somebody's temporary possession. This entity corresponds to the predicative element. It immediately precedes the copula, however, it may also be postposed, as in (1234). The postposition of the predicative element seems to be a recent development and can perhaps be explained by the influence of Russian word order.
(1234) Bu zugdi-du:
we house-DAT.IPL.EX
'There is a cat in our house.'
\(\begin{array}{ll}\text { bie } & \text { keige. } \\ \text { be.PRES.HAB cat }\end{array}\)

The noun-predicative element does not have subject properties as identified in 15.1.1.

The existential meaning is licensed by the Habitual copula bie. Non-existence is asserted by the negative copula anči, see 23.2.1.5.1.

\subsection*{17.2.1.3.1. Existential meaning}

In (1235) we present examples of sentences that express generic existence, and in (1236) and existence in a specific location that includes the spatial adverbials.
```

(1235)a. Xakta-da bie mala-da
grass-FOC be.PRES.HAB dry.fish-FOC
bie s'ou-de bie.
be.PRES.HAB scoop-FOC be.PRES.HAB
'There is grass, dry fish, and a scoop.'
b. Timana xeleba bi-ze\etae-ni.
tomorrow bread be-FUT-3SG
'There will be bread tomorrow.'
c. In'ei solügi bie.
dog orange be.PRES.HAB
'There are orange dogs.'
(1236)a. O-du bi zugdi: bi-s'e.
this-DAT me house.PRES be-PERF
'Here was my house.'
b. Kuyka mo:-lo-ni seutige bie.
cedar tree-LOC-3SG nut be.PRES.HAB
'There are nuts on the cedar tree.'
c. Uli-du zuge xai bie.
river-DAT ice still be.PRES.HAB
'There is still some ice on the river.'
d. Uli-du egdi sugzä: bie.
river-DAT many fish be.PRES.HAB
'There are a lot of fish in the river.'

```

\subsection*{17.2.1.3.2. Possessive meaning}

When the Locative or a Dative noun phrase (interchangeably) denotes a person, the construction may have an additional meaning of temporary possession (permanent possession is expressed by the possessive construction, see 17.2.1.4 and especially \(17.2 \cdot 1.4 .2\) ).
(1237) a. Koko-lo

Koko-LOC
oloxi
squirrel
'Koko has a squirrel's tail.'
igi-ni bie.
tail-3SG be.PRES.HAB
\(\begin{array}{llll}\text { b. } & \text { Pakula-la } & \text { tuxi bie } & \text { bi-s'e. } \\ \text { Pakula-LOC } & \text { sledge be.PRES.HAB be-PERF }\end{array}\)
'Pakula had (with him) a sledge.'
c. Bi mamasa-du-i sagdi joxo
me wife-DAT-1SG large pot
bie.
be.PRES.HAB
'My wife has a large pot (at her place).'
d. Petia-le kusige bie.

Pete-LOC knife be.PRES.HAB
'Pete has a knife.'
e. Min-du nakta dili-ni:
bie.
me-DAT boar head-AL.1SG
be.PRES.HAB
'I have the head of a boar.'
A small number of examples, however, can be interpreted as expressing permanent possession, as can the one that follows.
\begin{tabular}{clll} 
(1238) Sin-dule & seuse bie? & Seuse & min-dule \\
be-LOC & axe be.PRES.HAB axe & me-LOC \\
bie & zugdi-le & amä:sa:-ni. \\
be.PRES.HAB & house-LOC & leave.PAST-1SG
\end{tabular}
'Do you have an axe? I do have an axe, (but) I left it at home.'

\subsection*{17.2.1.3.3. Existential vs. locational construction}

Existential sentences, as described in this section, do not have a subject and are not partitioned from the point of view of information structure: they do not have a topic. The predicative element must be located in strict adjacency to the copula verb. They both belong to the assertive part of the proposition and seem to form a single syntactic constituent (this is shown by bracketing in (1239a)). Such sentences are semantically and pragmatically opposed to the locational adverbial constructions with a personal copula (type 17.2.2.2) in which the subject (=topic) does not have to be adjacent to the predicate and tends to be located clause-initially (1239b).
(1239) a. Ba:-la
in'ei
bie.
nature-LOC [dog
'There is a dog outside.'
b. In'ei
ba:-la
\(b i\)-ni.
dog place-LOC
be-3SG
'The dog is outside.'

\subsection*{17.2.1.4. Possessive construction}

The possessive relationship is expressed by the copular 'be' construction which corresponds to the two-argument "have" constructions in most European languages. Normally, such a construction expresses permanent possession, both inalienable and alienable, while temporary possession is commonly rendered by existential sentences (17.2.1.3) or the Proprietive forms in \(-x i\) (17.2.2.1.1).

\subsection*{17.2.1.4.1. The structure of the construction}

Since the construction in question typically predicates a permanent property, it involves the Habitual copula bie. The negation of the possession happens by means of the negative copula anči, it is addressed in more detail in 23.2.3.5.1. The predicative role belongs to the regular possessive noun phrase in which the possessed noun takes the possessive suffix referring to the possessor (13.1). The obligatory presence of the possessive marker makes the possessive construction formally different from the existential construction with possessive meaning (17.2.1.3.2.). Apart from the regular possessive suffix, the possessed noun in the possessive noun phrase can be marked by the alienable possession affix - \(\boldsymbol{y} i\). The presence of this suffix on the possessed noun follows the general rules described in 4.2.4.
(1240) \(B i \quad\) aziga-yi: bie.
me girl-AL.1SG be.PRES.HAB
'I have a daughter.'


The personal copula bi- occurs very seldom in this construction but is not completely excluded, perhaps as a result of an analogy with other types, cf.:
```

(1242)Uti Kanda mafa ila aziga-ni-ni bi:-ni. that Kanda old.man three girl-AL-3SG be-SG 'That old man Kanda has three daughters.'

```

\subsection*{17.2.1.4.2. Possessive vs. existential construction}

Although existential (17.2.1.3) and possessive constructions both express some kind of possession, their meaning differs. Inalienable possession (1243a), as well as more or less permanent ownership (1243b), can be rendered only through the possessive construction. Words that regularly require a suffix of alienable possession (4.2.4.2) are also introduced through the possessive construction (1243c).
```

(1243) a. Bi (*min-du) ic'a neףu-i
me (me-DAT) small younger.sibling-1SG
bie.
be.PRES.HAB
'I have a small younger brother/sister.'
b. Bi $a u-i \quad b i e$,
me cap-1SG be.PRES.HAB
au-la-gi-zeŋe-i oymo:-mi.
cap-V-REP-FP-REF forget.PAST-1SG
'I have a cap, (but) I forgot to put it on.'
c. Uti getu ja:-ni-ti bie.
that PL cow-AL-3PL be.PRES.HAB
'They have a cow.'

```

On the other hand, the existential construction rather predicates existence in the particular location. This is clearly underlined by examples like (1244a), where the existence of an object (a gun) in the temporary possession of a person other than its regular owner is asserted.
```

(1244) a. Min-dule xoŋto ni: mäunda-ni bie.
me-LOC other man gun-3SG be.PRES.HAB
'I have (somebody else's) gun.'
b. Sin-du bie si 'aga-i
you-DAT be.PRES.HAB you brother-2SG
$z a ̈:-n i$ ?
money-2SG
'Do you have (with you) your brother's money?'

```
\begin{tabular}{llll} 
c. & Min-du käya jä:-ni & bie. \\
me-DAT deer antlers-3SG & be.PRES.HAB \\
& 'I have deer's antlers.'
\end{tabular}

\subsection*{17.2.2. Nominative subject pattern}

A majority of copular constructions take the subject that corresponds to the Nominative noun phrase. They are classified below according to the types of the predicative elements.

\subsection*{17.2.2.1. Attributive construction}

The construction in question predicates different kinds of (temporary) properties, such as (parametric) features, states, qualities, and quantities. The predicative element corresponds to an adjectival phrase, a Nominative noun phrase, or a phrase headed by a quantifier in the Nominative form. Personal pronouns in the predicative role are ruled out. The construction involves the personal copula 'be' (or the copula 'become'), omitted under certain conditions (17.1.1.2), and allows the Imperative, cf.:
\begin{tabular}{lll}
Si & ceme-ktu & \(e-z\) \\
you lye-N & N \\
'Don't be a liar.'
\end{tabular} \(\begin{array}{ll}e-z i & b i .\end{array}\) 'Don't be a liar.'

\subsection*{17.2.2.1.1. Adjectives in predicative function}

In (1246) we illustrate the adjectival copular construction with the overt copula 'be'; in (1247) the \(3^{\text {rd }}\) person Present tense copula is omitted; in (1248) the copula 'become' is illustrated. In the finite position the adjective is often followed by the focus clitic particle \(-d A\) (12.1.1.3), cf. (1249).

\begin{tabular}{llll} 
d. & Bi & udie & bi-mi. \\
& me & Udihe & be- 1 SG
\end{tabular}
(1247) a. Ussuri ketu sugta.

Ussuri very deep
'The Ussuri is very deep.'
b. Xuda-si: ni: ja:-ni kangas'a. fur-V.PRP man eye-3SG narrow
'The merchant's eyes are narrow.'
(1248)Si sagdi ede-zene-i.
you big become-FUT-2SG
'You will become big.'
\begin{tabular}{lcl} 
Aziga \begin{tabular}{l} 
nukte-ni \\
girl
\end{tabular} & \begin{tabular}{l} 
wanimi-de.
\end{tabular} \\
'The girl's hair is long.'
\end{tabular}
b. Bu zugdi-u sagdi-de.
we house-1PL.EX large-FOC
'Our house is large.'
The adjectives aja 'good' and ge: 'bad' used in the copular construction can refer merely to somebody's health, rather than any other quality of the individual. The construction answers the question ono bie? 'how is X ?', cf.:
(1250) a. Ono bie Anna? Aja bi:-ni.
how be.PRES.HAB Anna good be-3SG
'How is Anna? She feels well.'
b. Sita-na-i teu aja bi--ti. child-PL-1SG all good be-3PL
'All of my children are healthy.'
17.2.2.1.2. Quantifiers in predicative function

The predicative element can correspond to a numeral (1251) or a scalar quantifier (1252), cf.:
(1251)a. Zueze zube bi-zene-ni.
table two be-FUT-3SG
'There will be two tables.'
```

    b. Niyka ma\etaga-\etai-ni zu: bi-si-ni.
    Chinese leader-AL-3SG two be-PAST-3SG
    'The Chinese had two leaders.' (SKX 322)
    | (1252) a . | Anana long.ago | dawa salmon |  | bi-s'e. be-PERF |
| :---: | :---: | :---: | :---: | :---: |
| b. | 'There were a lot of salmon before.' |  |  |  |
|  | Ima: | egdi | bi-s'e. |  |
|  | snow | much | be-PERF |  |
|  | 'There was a lot of snow.' |  |  |  |
| c. | O-du |  | b'oto | egdi. |
|  | this-DAT |  | mushroom | many |
|  | 'There are many mushrooms here.' |  |  |  |
| d. | Biki-le |  | sugdä: | egdi. |
|  | Bikin-LOC |  | fish | much |
|  | 'There are | lot of fis | sh in the Bi |  |

```
17.2.2.1.3. Nouns in predicative function

Examples of the predicative nouns are:
(1253) a. Bi aja wakca-i ni: bi-mi.
me good hunt-PRP man be-1SG
'I am a good hunter.'
b. Nua-ni elu ni.
he-3SG honest man
'He is an honest person.'
c. Koko bi aja anda-i.

Koko me good friend-1SG
'Koko is my good friend.'
In the construction in question the subject and the predicative noun may stand in a semantic relation of inalienable possession. Still this relationship is encoded as a predicative relationship. This construction has several subtypes. It may denote material of which something is made (1254), body parts or some other part-whole relationship (1255).
\begin{tabular}{llr} 
(1254)a. & Ei tege niyka & seule-ni. \\
& this gown Chinese & silk-3SG
\end{tabular}
b. Wa-la ni:-ni xulah-ni mafa n'ata-ni
kill-N man-3SG blanket-3SG bear skin-3SG
bi-si-ni.
be-PAST-3SG
'The blanket of a successful hunter used to be made of bear skin.' (SK 1008)
\[
\begin{array}{lll}
\text { (1255) a. } & \text { nala-ni } \quad \text { tu: sakä bi-si-ni. } \\
& \text { hand-3SG all blood be-PAST-3SG } \\
& \text { 'His hands were all (covered with) blood.' (SK 659) }
\end{array}
\]
b. Nua-ni omo jala bi-si-ni.
he-3SG one arm be-PAST-3SG
'He was one-armed.' (SK 659)
Further, the construction may express measurements. The nouns of measure that are used predicatively are: cenele 'weight', eqmele 'width', wanile 'length', and gugdala 'height'. They exhibit one peculiarity: they take the possessive affix that refers to the subject (this does not depend on the presence vs. absence of the overt copula). The actual measure is expressed by the Accusative noun phrase, which precedes the predicate. The sentence is in the \(3^{\text {rd }}\) person and does not normally include the overt copula, cf.:
```

(1256)a. Bi pute-i ila kile-we cenele-ni.
me bag-1SG three kilogram-ACC weight-3SG
'My bag weighs three kilograms.'
b. Ei xokto zube kilometra-we
this road two kilometer-ACC length-3SG
'This road is two kilometers long.'
c. Seuni: egdi tamah-ni ahnta tege-ni.
scary much price-3SG woman gown-3SG
'Women's gowns are terribly expensive.' (SK 1097)

```

Finally, in the construction expressing age, the copula must be overtly present even in the Present tense \(3^{\text {rd }}\) person Singular. The predicative element is the Nominative noun phrase headed by the word se: 'year' modified by a numeral, cf.:
\begin{tabular}{llllll} 
(1257) a. & Si adi & se: & bi:? & Bi & nada \\
& you how.many & year & be.2SG me & seven \\
& se: bi-mi. & & & \\
& year be-1SG & & \\
& & \\
& 'How old are you? I am seven years old.'
\end{tabular}
```

b. Nua-ti ilaza se: bi:-ti.
he-3PL thirty year be-3PL
'They are thirty years old.'
c. Bi sita-na-i tuna se: ede-kte:-ti.
me child-PL-1SG five year become-DIST.PAST-3PL
'My children have each become five years old.'

```

Another frequent type of predicative nouns is those in -mule, normally denoting living persons that bear a symmetrical relationship to each other (5.1.3.13). In such constructions the copula is never omitted, and shows Plural agreement. The subject may have the Plural form (1258), be expressed by a coordinated structure (1259) or have the Dual form of the pronoun 'me' min-zuye 'I with you' (9.1.1), as in (1260). On the subject modified by the Instrumental noun phrase see 13.5.1.
(1258) a. Nua-ti anda-mule ede:-ti
he-3SG friend-N become.PAST-3PL
ic'a-digi-de.
small-ABL-FOC
'They have been friends since childhood.'
b. Bu xa:-mule bi-u.
we sibling-N be-1PL.EX
'We are brothers.'
c. Nua-ti seggite-mule ede:-ti.
he-3PL r elative-N become.PAST-3PL
'They became relatives.'
\begin{tabular}{llll} 
d. \begin{tabular}{lll} 
Bue-ti \\
he-3PL
\end{tabular} & \begin{tabular}{l} 
men-e \\
REF-0
\end{tabular} & \begin{tabular}{l} 
do-lo \\
inside-LOC
\end{tabular} & \begin{tabular}{l} 
xa:-mule \\
sibling-N
\end{tabular} \\
& & &
\end{tabular}
'They are siblings to each other.'
e. Anda-mule
\(o:-z o-f i\).
friend-N
become-SUBJ-1PL.IN
'Let us be friends.'
(1259) Wayba oloxi anda-mule bi-si-ti.
tortoise squirrel friend-N be-PAST-3PL
'Tortoise and Squirrel were friends.' (K137)
(1260) Min-zuŋe zalä-mule bi-fi.
me-both cousin-N
be-1PL.IN
'We (you and I) are cousins.'

\subsection*{17.2.2.1.4. Proprietives in predicative function}

With the Proprietive forms in \(-x i\) (4.3.1) the construction has a possessive interpretation. Its meaning is then comparable to the meaning of the regular possessive construction (17.2.1.4). However, there is a certain difference: possessive sentences (17.2.1.4) assert the existence of an object in somebody's possession, while the possessive constructions with the Proprietive forms assert possession as a characteristic of the subject participant. In fact, the meaning of the form in -xi can be either possessive (1261) or non-possessive (1262). In the latter case it simply describes a certain quality of the subject.
```

(1261)a. Bi ma:ma-i weige-xi.
me grandmother-1SG earring-PROP
'My grandmother has earrings.'
b. Ei uligdig'a aziga ja:pti-xi.
this beautiful girl braid-PROP
'This beautiful girl has braids.'
c. Si oto-\etai-xi bi:?
you plate-AL-PROP be.2SG
'Do you have a plate?'

| (1262)a. | 'Ana <br>  <br>  <br> boat$\quad$ saya-xi | hole-ADJ |
| :---: | :---: | :---: |
|  | 'The boat became full of holes.' |  |

    b. Nua-ni unugu-xi.
    he-3SG illness-ADJ
    'He is ill.'
    ```

Proprietive forms are negated in an irregular fashion by means of the Partitive negative construction as in (1263). For further information see 23.2.1.5.4.
\begin{tabular}{lll} 
(1263) Nua-ni & \begin{tabular}{l} 
unugu-le \\
he-3SG \\
'He is not ill.'
\end{tabular} & \\
illness-PART & anči. \\
no
\end{tabular}

It should be noticed that Proprietive constructions and their negative counterparts may sometimes be subjectless and have an impersonal interpretation, cf.:
\begin{tabular}{llr} 
(1264) a. & J'e-le-dem & \(n i:-x i\). \\
& what-LOC-IND & man-ADJ \\
& 'There are people everywhere.'(K166)
\end{tabular}
b. Buga-la anči bi-si-ni.
island-PART no be-PAST-3SG
'There were no islands.' (SKX 320)
c. Bagä:-za-la xaisi mo:-xi bihi-ni.
other-N-LOC also tree-PROP be-3SG
'There are trees on the other side (of the river) as well.'
(Schneider 1937: 72)

\subsection*{17.2.2.1.5. Plural agreement}

Although expression of plurality is optional, the Plural of the subject can be encoded on the predicative adjective by means of the adjectival Plural marker \(-\eta k u\) (on this marker see 6.1.2.1.1). The subject itself may remain in the Singular; the copula is either omitted from the clause (1265), or takes Plural agreement (1266). When the subject corresponds to a personal pronoun of any person the Plural marker \(-\eta k u\) on the predicative adjective is normally absent, cf. (1267).
(1265) a. Ei moxo imexi-ŋku.
this cup new-PL
'These cups are new.'
b. Nua-ni aziga-ni ic'a-ŋku.
he-3SG daughter-3SG small-PL
'His daughters are small.'
c. Songo seuni-ŋku.
bear frightful-PL
'Bears are frightful.'
(1266) Ei \(\quad\) n'aula manga- \(\quad\) ku \(\quad\) bi:-ti. this boy strong-PL be-3PL
'These boys are strong.'
\begin{tabular}{lll} 
(1267) Nua-ti & \(i c ' a-i\) & bi-si-ti. \\
he-3SG & small-FOC & be-PAT-3PL \\
They are small.'
\end{tabular}

When the subject is morphologically marked for plurality with the Plural affix -ziga, number agreement between it and the predicative adjective is strictly obligatory, cf. (1268a) and (1268b):
(1268)
a.
\begin{tabular}{lll}
\begin{tabular}{ll} 
Aziga-ziga & alagdig'a- \(\eta k u\) \\
girl-PL & beautiful-PL
\end{tabular} & bi:-ti. \\
'The girls are beautiful.'
\end{tabular}
\(\begin{array}{llc}\text { b. } \begin{array}{c}\text { *Aziga-ziga } \\ \text { girl-PL }\end{array} & \begin{array}{l}\text { alagdig'a } \\ \text { beautiful }\end{array} & \begin{array}{c}\text { bi:-ti. } \\ \text { be-3PL }\end{array}\end{array}\) 'The girls are beautiful.'

Quantifiers in the predicative position do not require either a plural subject or plural agreement on the copula, as illustrated above in 17.2.2.1.2. However, the \(3^{\text {rd }}\) person Plural is not totally excluded, cf.:
\begin{tabular}{lllll} 
(1269) Anana & \(b i\) & \(z a-i\) & egdi & \(b i-s ' e\),
\end{tabular}\(\quad\)\begin{tabular}{l} 
eitene \\
long.ago \\
wac'a bi:-ti.
\end{tabular}

The predicative noun never takes plural agreement, so the subject agrees in number only with the copula and not with the predicative element, cf. (1270a) and (1270b). More examples are presented in (1271).
\begin{tabular}{rlrl} 
(1270) a. & \begin{tabular}{l} 
Nua-ni aja ni: \\
\\
he-3SG nice man
\end{tabular} & \begin{tabular}{l} 
bi:-ni. \\
be.RES-3SG
\end{tabular} \\
& 'He is a nice person.' & \\
b. & Nua-ti aja ni: & bi:-ti. \\
& he-3PL nice man & be-3PL \\
& 'They are nice people.'
\end{tabular}
(1271) a. Ba: ni:-ni bi-fi minti.
sky man-3SG be-1PL.IN we
'We are sky people.'
b. Su mamaka mamasa esi-gi-u. you old.man old.woman become-REP-2PL
'You are becoming old (literally: old man and old woman).'
If the predicative element denotes a body part, typically combined with a numeral omo 'one', the construction rather has a possessive meaning.
\(\left.\begin{array}{rl}\text { (1272)a. } & \begin{array}{l}\text { Nua-ni omo gala bi-si-ni. } \\ \text { he-3SG one hand be-PAST-3SG }\end{array} \\ & \text { 'He had one hand.' (SKX 316) }\end{array}\right\}\)

\subsection*{17.2.2.2. Adverbial construction}

The adverbial copular construction predicates various adverbial relations, such as the spatial, comparative, purposive, and others. The predicative element corresponds to the noun phrase in the oblique cases, the postpositional phrase, or the adverbial phrase. The personal copula used in this construction is normally present even in the \(3^{\text {rd }}\) person Singular in the Present tense. The Imperative and other oblique moods are ruled out.

\subsection*{17.2.2.2.1. Destinative nouns in predicative function}

The Destinative noun within the copular construction predicates the destination of the subject for a particular potential recipient (benefactive) or for making something (goal). So there is an apparent semantic difference between such constructions and constructions with Destinative Participles (17.2.1.2 and 17.2.2.4), which indicate that an object is designed for a certain activity. Destinative copular constructions are found only in the \(3^{\text {rd }}\) person. The predicative element is a destinative possessive noun phrase that encodes the benefactive/goal. The noun in the Destinative case takes the possessive reflexive suffix -mi in the meaning of general destination when the potential goal is not expressed within the destinative noun phrase (1273a). When the benefactive is expressed as a possessive modifier, it is referred to by possessive affixes on the head, see (1273b) and (1273c).
(1273)a. Ei ñaktu mo: sayminku-ne-mi. this rotten tree smoke-DEST-REF
'This rotten tree is for the smoke (against mosquitoes).'
b. \begin{tabular}{ll} 
Minti & \begin{tabular}{l} 
omölo-no-fi \\
we.IN
\end{tabular} \\
daughter.in.law-DEST-1PL.IN & bi-zene-ni \\
be-FUT-3SG
\end{tabular}
belie.
girl
'The girl will be our daughter-in-law.'
c. Si-de elu ni:-ne-i osi:.
you-FOC now man-V-2SG become.2SG
'You have now become grown up.' (K 164)
We have at least one example at our disposal in which grammatical relations are reverse: the destinative noun seems to correspond to the subject of a copular construction, while a Nominative noun has a predicative function. This follows from the word order and semantics of the sentence. Unfortunately, no other material is available.
(1274) Juge xei-ne-ni jayza-ktu xei.
scoop handle-DEST-3SG decorate-RES handle 'The scoop handle is decorated (with ornaments).' (SK 393)

\subsection*{17.2.2.2.2. Nouns in the oblique cases in predicative function}

A noun in the local cases does not itself have a predicative function. What is predicated by such a construction is the local relation of the noun phrase to the subject. The noun within the predicative phrase takes the Dative/Locative or the Ablative. In the Dative/Locative it denotes temporary location (1275) and, if it is animate, it can also express a woman's marital relationship (1276).
\begin{tabular}{llll}
\((1275)\) a. & \begin{tabular}{l} 
Anna \\
Anna
\end{tabular} & \begin{tabular}{l}
\(z u g d i-d u\) \\
home-DAT
\end{tabular} & \begin{tabular}{l} 
bi:-ni. \\
be-3SG
\end{tabular}
\end{tabular}
'Anna is at home.'
b. Bi abuga-i Bali-du bi:-ni.
me father-1SG Khabarovsk-DAT be-3SG
'My father is in Khabarovsk.'
c. Ei liste kiniga-du bi-si-ni.
this sheet book-LAT be-PAST-3SG
'This sheet was in the book.'
\(\begin{array}{llll}\text { d. } & \begin{array}{ll}\text { Kuliga } \\ \text { snake }\end{array} & \begin{array}{l}t e k p u-n i \\ \text { skin-3SG }\end{array} & \begin{array}{l}k a ̈:-d i-n i \\ \text { side-DAT-3SG }\end{array} \\ \begin{array}{ll}\text { siden }\end{array} & \begin{array}{l}\text { bi:-ni. } \\ \text { be-3SG }\end{array}\end{array}\)
'The snake skin is nearby.'
(1276) Stepana-du bi-mi.

Stepan-DAT be-1SG
'I am married to Stepan.'
In the Ablative the predicative noun phrase denotes the place of origin of the subject participant, cf.:
```

(1277) a. Ei ñ'aula Olono-digi (bi:-ni).
this child Olon-ABL (be-3SG)
'This boy is from Olon.'
b. J'e-digi in'ei-ziga?
what-ABL dog-PL
'Where are these dogs from?'

```

The Instrumental noun phrase in the predicative function either denotes material (1278a) or has a comitative meaning (1278b).
(1278)
a.

Umu-ni \(\tilde{n} a:-z i\).
belt-3SG leather-INST
'His belt is made of leather.' (SKX 292)
b. Gagda e:-tigi uti getu-de
second side-LAT that PL-FOC
men-e-men-e meime-zi bi-ti.
REF-0-REF-0 harpoon-INST be.PRES-3PL
'Each person on either side had his own harpoon.' (SKX 302)

\subsection*{17.2.2.2.3. Adverbs in predicative function}

The adverbial expressions that participate in copular constructions indicate a certain property of the subject, cf.:
\begin{tabular}{llll} 
(1279) a. & Sul'ai xokto-ni \(\quad\) uta-uxi & bi:-ni. \\
& fox \(\quad\) footstep-3SG that-LAT & be-3SG \\
& 'The fox's footsteps go that way.' (K 159)
\end{tabular}

\subsection*{17.2.2.2.4. Postpositional phrases in predicative function}

The predicative element can correspond to the locational (1280), comparative (1281), or comitative (1282) postpositional phrase. For the list of corresponding postpositions see 10.2 .
(1280)Xeleba zueze we:-le-ni bi:-ni.
bread table top-LOC-3SG be-3SG
'The bread is on the table.'
(1281)a. Ei zugdi minti zugdi-fi bede.
this house we house-1PL.IN ike
'This house is like ours.'
b. Guzakta-ni jayta labuga-ni bede. beard-3SG branch moss-3SG like 'His beard is like the moss on the branches of the pine tree.'
\begin{tabular}{llllll} 
c. & Xuda-si: & ni: & bogo & boloi-fi & jandasa \\
fur-V.PRP & man & fat & autumn-ADJ & badger \\
bede. & Bou & kuyka & texe & bede & bi:-ni \\
like & fat & cedar & trump & like & be-3SG \\
xuda-si: & & ni:. & & & \\
fur-V.PRP & & man & & &
\end{tabular}
'The merchant is fat like an autumn badger. The merchant is fat like a cedar trump.'
\begin{tabular}{lllll} 
d. & \begin{tabular}{l} 
We:
\end{tabular} & \begin{tabular}{l} 
kico-ni
\end{tabular} & \begin{tabular}{l} 
ogbö \\
mountain
\end{tabular} & \begin{tabular}{l} 
dili-ni \\
top-3SG
\end{tabular}
\end{tabular}
xenki-ni esi-e-ni.
like-3SG become-PAST-3SG
'The top of the mountain became similar to the elk's head.'
\(\begin{array}{llll}\text { e. } & S i \quad b i & d i: \eta k i & \text { bi-s'e-i. } \\ & \text { you me } & \text { like. } 1 \text { SG } & \text { be-PERF-2SG }\end{array}\)
'You were of my size.'
(1282)a. Bi xa: mule bi-mi.
me brother with be-1SG
'I have a brother.' (literally: I am with my brother)
b. Bi sita mule bi-mi.
me son with be-1SG
'I live with my children.'

The postpositional phrase with the postposition bede 'like' sometimes does not involve a noun standard of comparison, but an adjective or a demonstrative pronoun. The construction expresses the comparison with a class of objects characterized by the corresponding adjective, without actually naming any of these objects. It is based on a general knowledge of the typical properties of such objects that is shared by all members of the linguistic community. The postposition bede is translated in this case as 'looks like'. Only a few adjectives and pronouns can participate in such constructions, and these are the following:
(1283)
\[
\begin{array}{ll}
\text { imexi } & \text { 'new' } \\
\tilde{n} \text { 'aula } & \text { 'young' }
\end{array}
\]
\begin{tabular}{ll} 
inigi & 'alive' \\
\(e i\) & 'this
\end{tabular}

Since we deal here with inherent and more or less permanent characteristics of the subject, only the Habitual copula bie is present in such constructions.
\begin{tabular}{lllll} 
)a. & \begin{tabular}{l} 
Zugdi
\end{tabular}\(\quad\) imexi & bede & bie. \\
house & new & like be.PRES.HAB
\end{tabular}

\subsection*{17.2.2.3. Alienable possessive construction}

One of several options used to express a possessive relationship is the copular construction in which the predicative word corresponds to the nominal (a noun or a personal pronoun) with the alienable possession suffix -yi- (see 4.1.4.4 and 9.1.1.3). The predicative word with the suffix - \(\eta i\) - denotes the possessor, and this is the only case in Udihe in which the possessor is morphologically marked. However, in this case we are dealing not with the possessive noun phrase but with the predicative relationship. The suffix - \(\eta i\) - here signifies that the possessive relationship is the main predication in the sentence. For obvious semantic reasons, only the alienable possessive relationship can be predicated by the construction in question. It does not allow a subject in the \(1^{\text {st }}\) or \(2^{\text {nd }}\) person, or the Imperative and other non-Indicative moods. Tense forms other than the Present are also hardly found, and accordingly the personal \(3^{\text {rd }}\) person Present tense copula \(b i:-n i\) is normally omitted.

The possessed noun does not form a constituent with the possessor-noun. It need not be overtly present within the clause, as in (1285), or it may function as the subject, as in (1286).
\begin{tabular}{|c|c|c|c|}
\hline (1285) a. & \(N i\) who & \begin{tabular}{l}
kusige-ni? \\
knife-3SG
\end{tabular} & \[
\begin{aligned}
& \text { B'ata- } \eta i . \\
& \text { boy-AL }
\end{aligned}
\] \\
\hline \multicolumn{4}{|c|}{'Whose is the knife? The boy's.'} \\
\hline b. & Ni & kiniga-ni? & Kolia-yi. \\
\hline \multicolumn{4}{|c|}{\multirow[t]{2}{*}{'Whose is this book? Kolya's.'}} \\
\hline & & & \\
\hline c. & Zu: se: two sort & ule: käŋa meat deer & \\
\hline
\end{tabular}
'There are two sorts of meat (here), deer meat and bear meat.'

\section*{(1286)a. Ei suese Susana-yi. \\ this axe Susan-AL \\ 'This axe is Susan's.'}
b. Ei zugdi bi ami-ni.:
this house me father-AL.1SG
'This house is my father's.'
As well as by nouns, the predicative role can also be played by the possessive forms of Personal pronouns, which are also marked by the suffix - \(\eta i\) - (see 9.1.1.3).
```

(1287) Ei ugda nua-ti-\etai.
this boat he-3PL-AL
'This boat is theirs.'

```

\subsection*{17.2.2.4. Destinative construction}

Destinative Participles function in null-argument copular constructions of general destination (17.2.1.2). They also participate in a copular construction in which the destination seems to be asserted with respect to a particular entity encoded as the grammatical subject. The subject noun phrase takes the Nominative form, and exhibits the subject properties described in 15.1.1. Unfortunately, our material is not sufficient to allow us to make a definite judgement on whether all Destinative Participles derived from all verbs allow both types of destinative constructions (the subjectless construction and the personal construction). At present, it appears as though one-argument intransitive verbs only follow the subjectless pattern and that adjuncts cannot be promoted to the subject of destinative clauses. The contrast between the subjectless destinative construction 17.2.1.2 and the destinative construction with a subject can be seen in the following examples. The impersonal sentence (1288a) corresponds to two destinative copular sentences (1288b) and (1288c).
```

(1288)a. Ei xeku-zi in'ei-we egbesi-ti.
this rope-INST dog-ACC tie-3PL
'They tie the dog with this rope.'
b. Ei xeku-zi in'ei-we egbesi:-kči.
this rope-INST dog-ACC tie-3PL
'It is intended to tie the dog with this rope.'
c. Ei xeku in'ei-we egbesi--kči.
this rope dog-ACC tie-3PL
'This rope is for tying the dog.'

```

In (1288b) the Instrumental noun phrase inherits its case from (1288a) and is not a subject (see 17.2.1.2), while in (1288c) it is a Nominative subject noun phrase. The translations of (1288b) as an impersonal and of (1288c) as a personal sentence reflects this distinction.

The construction in question does not have a definite time reference, but rather expresses a timeless universal situation. Therefore the Destinative Participle is compatible only with the Present tense (personal) copula, which, in its turn is usually omitted, cf.:
\begin{tabular}{llll} 
(1289) a. & \begin{tabular}{l} 
Ei mä:usa \\
this gun
\end{tabular} & \begin{tabular}{l} 
bui-we \\
animal-ACC
\end{tabular} & \begin{tabular}{l} 
wakca-kči. \\
hunt-DP
\end{tabular}
\end{tabular}
'This gun is for hunting the animal.'
b. Ei mulexi this bucket water-ACC 'This bucket is for carrying water.'
\begin{tabular}{llll} 
a. & \begin{tabular}{l} 
Kuti \\
tiger
\end{tabular} & \begin{tabular}{l} 
wall- kči \\
kill-DP
\end{tabular} & bi:-ni. \\
& be-3SG
\end{tabular}

\subsection*{17.2.2.5. Resultative construction}

Resultative Participles (7.6.1.4) in the predicative function express an aspectual meaning: they denote the resultative state, that is, the observable state that results from the previous situation denoted by the verbal stem. Both subjective (17.2.2.5.1) and objective (17.2.2.5.2) Resultative Participles participate in such constructions. The resultative construction involves the personal copula 'be', optionally omitted in the \(3^{\text {rd }}\) person Singular Present tense.
\begin{tabular}{lll} 
) Nua-ni & sokto-ktu & (bi:-ni). \\
he-3SG \\
'He is drunk.' & &
\end{tabular}

\subsection*{17.2.2.5.1. Subject-oriented resultative}

The subject-oriented resultative denotes the state of the single participant of an intransitive situation. The subject (experiencer of the resultative state) is identical to the subject participant of the (hypothetical) previous situation.
\begin{tabular}{llll} 
a. & Biki \(\quad u l i-n i\) & \(x a:-k t u\) \\
& Bikin river-3SG get.shallow-RES \\
& 'The river Bikin became shallow.'
\end{tabular}
b. \(B i\)
nala-i
me hand-1SG
auli-ktu.
swell-RES
'My hand is swollen.'
c. Dene su:-ktu.
lamp go.out-RES
'The lamp died out.'
d. Ei mo: zegde-ktu.
this tree burn-RES
'This tree is burnt.'
e. B'ata nienisi-ktu.
boy get.sweaty-RES
'The boy became sweaty.'
\(\begin{array}{lll}\text { f. } & \text { Ei n'aula lali-ktu } & \text { bi:-ni. } \\ \text { this child starve-RES } & \text { be-3SG } \\ & \text { 'This child is hungry.' }\end{array}\)

\subsection*{17.2.2.5.2. Object-oriented resultative}

In the object-oriented Resultative, the subject-experiencer of the resultative state corresponds to the object (patient/theme) participant of the previous transitive situation, while its agent remains unspecified. Remarkably, in such resultative constructions there are two alternative coding options for the subject-experiencer of the resultative state: the Nominative (1293) or the Accusative (1294).
\(\begin{array}{ll}\text { (1293) a. } & \begin{array}{l}\text { Tege guzaga-ktu. } \\ \\ \\ \text { gown tear-RES } \\ \text { 'The gown is tom up.' }\end{array}\end{array}\)
\(\begin{array}{llll}\text { b. } \begin{array}{ll}\text { Nua-ni } \quad \text { tege-ni } & \text { teu } \\ \text { he-3SG } & \text { gown-3SG } \\ \text { go-lo-ktu. } \\ \text { 'His gown is all buttoned.' }\end{array} & \end{array}\)
(1294)
a. Weige-we
aunda-ktu.
floor-ACC dry.up-RES
'The floor is dried up.'
b. \(S i\)
you knife-ACC-2SG
\(z u ̈-k t u\).
'Your knife is sharpened.'

The case difference seems to be an instance of free morphological variation. There is no apparent semantic difference between the two options; thus (1293a) can be expressed with the Accusative experiencer as well.
```

(1295)Tege-we guza-ga-ktu.
gown-ACC tear-DEC-RES
'The gown is torn up.'

```

Both the Accusative and Nominative noun phrases seem to exhibit the subject properties described in 15.1.1 and should be identified as the subject. When the Resultative Participle takes the redundant affix of the passive Past Participle \(-s A(7.5 .1 .3)\) the construction does not appear to differ from the regular resultative constructions, except that the subject must be in the Accusative (the Nominative is banned), cf.:
\[
\begin{array}{lll}
\text { a. } & \text { Ei tuduze-we siki-ktu-se. }  \tag{1296}\\
\text { this potato-ACC wash-RES-PP.PAS }
\end{array}
\]

\subsection*{17.2.2.5.3. Plural agreement}

Plurality may be emphasized by means of the Restrictive focus particle m'ei (12.1.1.9.2). In the Plural the Resultative Participle does not agree in number with the copula.
(1297) a. Ei ñ'aula-ziga cemne-ktu bi:-ti. this child-PL deceive-RES be-3PL
'These children are deceived.'
b. Ei in'ei-ziga konko-ktu bi-zene-ti.
this dog-PL beat-RES be-FUT-3PL
'These dogs will be beaten.'
c. Nua-ti deu-ktu bi:-ti.
he-3PL get.tired-RES be-3PL
'They are tired.'

\subsection*{17.2.2.5.4. Collocation with adverbials}

The time reference of the resultative construction is the time of the resultant state and not of the process that leads to this state. This can be seen from the collocation with time adverbials that refer to the time of the state. In (1298a) the adverb tiyeni 'yesterday' and in (1298b) the adverb timana 'tomorrow' indicate the time of the state, although the event of closing the shop or house, respectively, can occur at any previous time.
\begin{tabular}{lllll} 
(1298)a. & \begin{tabular}{l} 
Tineni \\
\\
\\
yesterday
\end{tabular} & magazina & khop & kimpi-ktu \\
lose-RES & bi-s'e. \\
& be-PERF
\end{tabular}
'Yesterday the shop was closed.'
b. Timana bi zugdi: kimpi-ktu
tomorrow me house.1SG close-RES
bi-zene-ni.
be-FUT-3SG
'Tomorrow my house will be closed.'
Since the construction denotes the state, and not the process, it cannot include certain adverbs such as, for example, ei 'just now', or those adverbials that characterize verbal action, cf. the ungrammatical (1299).
\begin{tabular}{cc} 
(1299) \begin{tabular}{c} 
*Oñ-wo \\
letter-ACC
\end{tabular}\(\quad\)\begin{tabular}{l} 
tuge-zi \\
quick-INST
\end{tabular} & \begin{tabular}{l} 
oño-ktu. \\
write-RES
\end{tabular} \\
'The letter is written quickly.
\end{tabular}

\subsection*{17.2.2.6. Construction with ideophones}

Most ideophonic adverbs (10.1.3.2) are regularly used in the predicative function in combination with either the personal copula bi- or, more often, the impersonal copula bie. The choice of the copula basically depends on whether the construction expresses a permanent or a temporary state (see 17.1). Other copulas may also be used (17.2.2.6.3). Unlike adjectives (17.2.2.1), the ideophones never take Plural markers, so the Plural of the subject can be marked only in the subject noun phrase or the agreement affix on the copula.

As distinct from the bound adjectives addressed in 6.4.4.2.2, ideophones that enter copular compounds have also another syntactic function: they mostly function as verbal modifiers (see 10.1.3.2.3). Their double function is illustrated below. The examples in (a) below show the ideophones in adverbial function, while examples (b) illustrate the corresponding ideophones within a compound adjective.
(1300) a. Ja: kilum ise-si:-ni.
eye angry see-IM-3SG
'He is looking with angry eyes.'
b. Ja: kilum ede:-ni.
eye angry become.PAST-3SG
'His eyes became angry.'
(1301) a. Meje-i pam tagda:-ni.
mind-REF black get.angry.PAST-3SG
'He got very angry.'
b. Pam ede:-ni.
black become.PAST-3SG
'He became black from anger.'
(1302) a. Tu-tu jene:-ni.
quiet-quiet go.PAST-3SG
'He left quietly.'
b. Tu-tu bi-e!
quiet-quiet be-IMP.2SG
'Be quiet!'
(1303)a. Pam buto:-ti.
black get.dirty.PAST-3PL
'(They) are soiled with black.'
b. Pam ede:-ni.
black become.PAST-3SG
'It became black.'
a. \begin{tabular}{l} 
Dili zenge-zenge \\
head swinging-swinging
\end{tabular}\(\quad\)\begin{tabular}{l} 
usa-wasi-si:. \\
move-DIV-IM.PRP
\end{tabular}
'The head is swinging unsteadily.'
b. Zege-zenge ede:-ni.
swinging-swinging become.PAST-3SG
'It started to swing.'
17.2.2.6.1. Construction with the personal copula

The examples below illustrate the personal \(3^{\text {rd }}\) person Present copula 'be' in sentences that express a temporary state. The copula must always be overtly present, even in the \(3^{\text {rd }}\) person in the Present tense.
\(\begin{array}{lllll}\text { (1305) a. } & \begin{array}{l}\text { Nua-ni } \\ \text { he-3SG }\end{array} & \begin{array}{l}\text { ja:-ni } \\ \text { eye-3SG }\end{array} & \begin{array}{l}\text { bugdam } \\ \text { goggling }\end{array} & \text { bi:-ni. } \\ & \text { be-3SG }\end{array}\)
'He was goggling (at something).'
b. Bi abuga-i teu-teu bi:-ni.
me father-1SG quite-quite be-3SG
'My father is silent.'
c. Nua-ni muli-mul bi:-ni.
he-3SG toothless-toothless be-3SG
'He is toothless.'
d. Tege čif-čif bi-s'e.
gown wet-wet be-PERF
'The gown was wet through.'
17.2.2.6.2. Construction with the Habitual copula

Examples:
\begin{tabular}{cllll} 
(1306) a. & \begin{tabular}{l} 
In'ei \\
dog
\end{tabular}\(\quad\)\begin{tabular}{l} 
pigdäm \\
inside
\end{tabular} & bie. \\
& be.PRES.HAB
\end{tabular}

\subsection*{17.2.2.6.3. Construction with other copulas}

The following examples illustrate the use of the copula 'become' in the construction in question.
\begin{tabular}{llll} 
(1307) a. & \begin{tabular}{l} 
Nua-ni \\
he-3SG
\end{tabular}\(\quad\)\begin{tabular}{l} 
mul'-mul' \\
toothless-toothless
\end{tabular} & \begin{tabular}{l} 
ede:-ni. \\
become.PAST-3SG
\end{tabular} \\
& 'He became toothless.' &
\end{tabular}
b. Uli pice-pice e:-ni.
water spill-spill become.PAST-3SG
'Water has spilled out.'
c. In'ei kidem-kidem ede:-ni.
dog on.end-on.end become.PAST-3SG
'The dog's fur stood on end.'
d. Nua-ni bakčam ede:-ni.
he-3SG crooked become.PAST-3SG
'He is doubled up (in pain).'
e. Jogoso xayna-xayna esi-gi-e-ni.
channel dry-dry become-REP-PAST-3SG
'The channel completely dried up.'
Remarkably, as distinct from copular constructions with nouns and adjectives, ideophones are compatible with the "semantically light" verbs wo:- and nixe'make, do'.


Notice that the copulas wo:- and nixe- with the meaning 'make, do, go, happen' may also occur with other manner adverbs.
(1309) a.
\begin{tabular}{|c|c|c|}
\hline Gä:ya each & \begin{tabular}{l}
dogbo-ni \\
night-3SG
\end{tabular} & ute that \\
\hline \multicolumn{3}{|l|}{'Every night it happens this way.' (K 28)} \\
\hline Ine-m & iñe-m & wo:- \\
\hline laugh-INF- & laugh-INF & mak \\
\hline
\end{tabular}
'He laughs very much.' (K 117)

\subsection*{17.2.2.6.4. Omission of the copula}

Omission of the copula is a rare option in the construction in question. However, we have a few examples in our corpus, cf.:
\[
\begin{array}{ll}
\text { (1310) a. } & \begin{array}{l}
\text { Uta-digi xaku } \\
\text { that-ABL right puge-me pincers }
\end{array} \quad \text { arm kala } \\
& \text { 'Then his arms were squeaking like pincers.' (K 105) }
\end{array}
\]
b. Bi zugdi: sim-sim-de. me house.1SG quiet-quiet-FOC 'It is quiet in my house.'
c. Tiymel'e xegie-xi jala gamda-liu, dili
fell.PERF down-LAT hand together-ADV head dayda-liu-de.
bending-ADV-FOC
'(It) fell putting together its hands and bending its head.' (K 187)


\subsection*{17.2.3. Dative subject pattern}

In copular sentences with the experiencer Dative noun phrase, the predicative element is expressed either by the experiential adjective (17.2.3.1) or occasionally by the Desiderative Infinitive (17.2.3.2). Both these constructions can be generally characterized as experiential, that is, denoting a temporary (physical) state. They do not occur in the non-Indicative moods. These constructions involve the personal copula bi- 'be' that takes the \(3^{\text {rd }}\) person Singular personal affix and is omitted in the Present tense. Note that the Dative
experiencer argument exhibits certain (but not all) subject properties and is therefore identified as a "subjectoid" in 15.1.3.

\subsection*{17.2.3.1. Experiential construction}

The adjectives that are used as a predicative element of the experiential construction with the Dative experiencer are in (1311).
\begin{tabular}{rlll} 
(1311) ge: & 'bad' & aja & 'good' \\
xekui & 'hot' & ijeni & 'cold' \\
safani & 'boring' & ug'ei & 'heavy' \\
xemteni & 'bored with' & gili & 'chilly' \\
seuni & 'scary, frightening' & xoköi & 'sweaty' \\
xei & 'tasty' & sebzeŋke & 'cheerful, funny, \\
& & & interesting'
\end{tabular}

Basically the same set of adjectives can govern the impersonal infinitival complement clause and the experiencer-controlled complement clause (20.1.1).

Examples (1312) illustrate the Present tense with the copula dropped, example (1313) illustrates the Future tense, examples (1314) illustrate the 'become'-type copula.
(1312) a. Mun-du ketu sebzenke.
we-DAT very interesting
'We are very happy.'
b. Min-du safani. or: Safa-ni min-du.
me-DAT boring boring-3SG me-DAT
'I am bored.'
(1313) Min-du xekui bi-zene-ni. me-DAT hot be-FUT-3SG 'I will feel hot.'
(1314)a. Käsa-du ug'ei ede-li-ge. eagle-DAT heavy become-INC-PERF 'It is becoming heavy for the eagle (to carry).'
b. Min-du ge: ede:-ni. me-DAT bad become.PAST-3SG 'I started feeling bad.'
c. Jegdige-du seuni: o:-ni. hero-DAT scary become.PAST-3SG
'It has become scary for the hero.' (K 182)

\subsection*{17.2.3.2. Desiderative construction}

The predicative element corresponds to the Desiderative noun in -mugdi (8.2.3.2). The Desiderative noun denotes the desiderative state, that is, the wish for the performance of a corresponding action. Normally the issue here is the wish that pertains to a certain bodily physical activity, like eating or sleeping, while otherwise intentional suffixes (8.2.3.3) are used in this sense. The desiderative construction can be in the Present or Past tense. The Future tense is banned. In the Present tense the auxiliary verb is normally omitted. An example of the copula 'become' is (1316).
```

(1315)a. Nuan-du-ni yua-mudgi.
he-DAT-3SG sleep-DESN
'He is sleepy.'
b. B'ata-du yua-mugdi.
boy-DAT sleep-DESN
'The boy is sleepy.'
c. Min-du \etaua-mugdi.
me-DAT sleep-DESN
'I am sleepy.'
d. Minti-du čaja-wa umi-mugdi.
we-DAT tea-ACC drink-DESN
'We feel like drinking some tea.'

```
\begin{tabular}{rl} 
(1316) \(B i\) jexe-mugdi & ede-li-e-mi. \\
me sing-DESN & become-INC-PAST-1SG
\end{tabular}

There are also examples where in this construction the Present participle of the desiderative verb is used instead of the Desiderative noun in -mugdi.
(1317) \(\eta и а-m и: i \quad e d e-l i-e-m i\).
sleep-DES.PRP become-INC-PAST-1SG
'I started feeling sleepy.'

It is noteworthy that the experiencer of the desiderative state can be expressed not only by the Dative case but also by the Nominative case.
```

(1318) a. Nua-ni diga-mugdi bi-si-ni.
he-3SG eat-DESN be-PAST-3SG
'He wanted to eat.'
b. Nua-ni $\quad$ пиa-mugdi.
he-3SG sleep-DESN
'He wants to sleep.'

```

The Dative and the Nominative seem to be completely synonymous and interchangeable in this case. The Dative marking of the experiencer may be an original Udihe feature, cf. the experiential construction 17.2.3.1. However, it is not completely excluded that the Nominative construction such as (1318) has been gradually replaced by the Dative construction under the influence of Russian syntax, where the corresponding sense is rendered with the Dative subject construction (mne xočetsja 'I would like to' literally 'it is wanted to me').

\subsection*{17.3. Nominal sentences}

Nominal sentences are used when directly indicating an object and/or naming it. They do not involve a copula and normally consist of only one word:
(1319) a. Jala!
toad
'(Look), a toad!'
b. Ele tete(-ni).
enough end-3SG
'That's the end (traditional tale ending)'.

\section*{Chapter 18 \\ Complex sentences}

In this chapter we focus on sentences that contain more than one predication but do not involve any non-finite verbal forms. Predicates in both components of the complex sentence are expressed by one of the finite tense/aspect/mood forms (on these see Chapter 7). Monoclausal coordinated structures (constituent conjunctions and disjunctions) are also addressed here. On non-finite subordinate clauses see Chapters 19, 20, and 21.

\subsection*{18.1. Conjunction}

The principal means of constituent coordination is the enclitic additive particle \(-d A\) 'and' (12.1.1.3), which functions as both constituent and clausal coordinator. Occasionally the borrowed Russian conjunctions \(i\) 'and', \(a\) 'and, but', and no 'but' may be used. Conjunction may also be expressed by mere juxtaposition.

\subsection*{18.1.1. Constituent conjunction}

On the coordination of postpositional phrases see 10.2.3

\subsection*{18.1.1.1. Subject coordination}

Subject coordination normally occurs through juxtaposition. The verb takes either the Plural (1320) or Singular (1321) agreement markers.
\begin{tabular}{llllll} 
(1320) a. & Exi & sine bagdi-e-ti. & & \\
& frog mouse live-PAST-3PL & & \\
& There lived a frog and a mouse. & & \\
b. & Jegdige omo & ene-zi & sul'ai & tene \\
& hero \(\quad\) one & side-INST & fox & CONT \\
& bagä:-za-nazi & ili-e-ti. & & \\
& other-N-INST & stand-PAST-3PL &
\end{tabular}
'The hero stood on one side, and the fox on the opposite side.' (K 151)
\begin{tabular}{lllll} 
c. & Ila & ni: & men-e & tue-ze-digi-ni \\
three & man & REF-0 & winter-N-ABL-3SG & three \\
ni: & xonto & tue-ze-digi-ni & Xu:n-dile & \\
man & other & winter-N-ABL-3SG & Khor-LOC &
\end{tabular}
wakca-na:-ti.
hunt-DIR.PAST-3PL
'Three men from our dwelling and three men from another dwelling went hunting on the river Khor.'
d. Uti etigi-ni
that father.in.law-3SG grandmother-3SG
od'o-ni jua-iti, e-iti dogdi-de.
grandfather-3SG sleep-3PL NEG-3PL hear-FOC
'Her father-in-law and mother-in-law, grandmother and grandfather sleep and do not hear.'
(1321) a. Mamaka aziga-la digen-ki-ni.
old.woman girl-CONT hide-PAST-3SG
'The old woman and the girls have hidden.' (K 107)
b. Bude-ili mamaka nada kotoi-ti.
die-3SG old.woman seven bald-3PL
'The old woman and the seven bald ones died.'
c. Si abuga- \(i\) enige- \(i\) sin-e-we
you father-2SG mother-2SG you-0-ACC
wa:-ni.
kill.PAST-3SG
'Your father and mother killed you.'(K 196)
In the following example three embedded subjects are coordinated by means of the additive focus clitic \(-d A\).
```

(1322)Ami:-de
father.2SG-FOC
xa-nta-na-i-de
sibling-N-PL-2SG-FOC
eni:-de
mother.2SG-FOC
'If you have a father, mother and siblings, call (them).' (SKX 232)

```

\subsection*{18.1.1.2. Modifier coordination}

Coordination of non-attributive modifiers is a rare option in Udihe. It normally requires the repetition of the head noun according to the following pattern: (a+ b) \(\mathrm{C} \rightarrow \mathrm{aC}+\mathrm{bC}\), where \(a\) and \(b\) are modifiers and \(C\) is a head of the noun phrase. This is illustrated by (1323), where the possessive modifiers are coordinated.


On fairly rare occasions the possessive modifiers may be coordinated by means of juxtaposition.
(1324)ki'asa eze-ni yasaxi eze-ni neyu-ti eagle tsar heron tsar younger.sibling-3PL 'younger siblings of the tsar of the eagles and the tsar of the herons' (SKX 214)

Attributive modifiers (adjectives) are easily coordinated without any additional devices, as shown below.
\begin{tabular}{llll} 
(1325) \begin{tabular}{l} 
Gazi-je \\
bring-IMP.2SG me-DAT \\
'Bring me white silk cloth.'
\end{tabular} & \begin{tabular}{l} 
c'aligi seule-me \\
white silk-ADJ
\end{tabular} & \begin{tabular}{l} 
sexi-we. \\
cloth-ACC
\end{tabular} \\
\end{tabular}

\subsection*{18.1.1.3. Coordination of other constituents}

Other major constituents can be coordinated with the additive focus clitic \(-d A\) 'and' which either follows each conjunct (1326), or only the last one (1327), as well as by means of juxtaposition (1328).


When the coordinated constituents are not adjacent to each other, the last conjunct is extraposed to the position after the finite verb and must be followed by the clitic \(-d A\) 'and'.
(1329) a. Loŋko-wo zawa-ja pot-ACC take-IMP.2SG
'Take the pot and the bells'.

\section*{küfakti-we-de.}
bell-ACC-and
nede-iti
put-3PL
ulikte-we-de olokto-lo:-ni. shaman.lard-ACC-and cook-PURP-3SG
'They put meat and shaman lard in the pot in order to cook (them).'
The examples below demonstrate that for certain semantically fixed conjoined expressions (abuga enipe 'father and mother') case marking appears only on the second conjunct. It is not entirely clear how far this phenomenon goes. Cf. also dogbo-li-na ineni-ne 'day and night' (SK 376) <night-PROL-FOC day-3SG>.
(1330) a.
\begin{tabular}{lll} 
nene-ze-fi-ge & \(b i\) & enipe \\
go-SUBJ-1PL.IN-HORT & me & mother
\end{tabular}
abuga-tigi: ge.
father-LAT.1SG HORT
'Let us go to my mother and father.' (K 197)
b. Exi-ni abuga enine-tigi teluyu-si-e-ni.
sister-3SG father mother-LAT story-V-PAST-3SG
'The elder sister told it to the father and the mother.' (K 139)
Less frequently, constituents may be coordinated by means of the repetition of the VP, that is, \((\mathrm{a}+\mathrm{b}) \mathrm{C} \rightarrow \mathrm{aC}+\mathrm{b} \mathrm{C}\), where \(a\) and \(b\) are coordinated constituents and \(C\) is a verb.
(1331) E:xi-ni
elder.sister-3SG
edi-we
wind-ACC

> gele-li-e-ni,
> ask-INC-PAST-3SG
agdi-we gele-li-e-ni.
thunder-ACC
ask-INC-PAST-3SG
'The elder sister started calling the wind and the thunder.' (SKX 100)

\subsection*{18.1.2. Clausal conjunction}

Coordinated clauses that share a constituent are addressed in 18.1.2.1. If the conjoined clauses do not share a constituent, they are coordinated by means of juxtaposition. However, the criteria here are very subtle: it is not always clear
whether two clauses should indeed be analyzed as a coordinated structure. In certain cases, the only formal criterion that can be suggested is prosodic: the pause between the conjoined clauses is shorter than between two independent clauses, and the sentence intonation does not fall until the end of the second conjunct. We will illustrate only the most obvious case here, namely the coordinated clause that semantically modifies an element of the matrix clause (18.1.2.2) and the conjoined embedded clauses (18.1.2.3).

\subsection*{18.1.2.1. Coordinated clauses with a shared constituent}

\subsection*{18.1.2.1.1. Shared predicate}

Constructions with a shared predicate require it to be repeated: \((a+b) C \rightarrow a C\) +bC , where \(C\) is a predicate and \(a\) and \(b\) are coordinated subjects. The additive focus particle \(-d A(12.1 .1 .3)\) is the usual means of coordinating such clauses. The particle is cliticized either to subjects of both conjuncts (1332), or only to the subject of the second conjunct (1333).
a.
\begin{tabular}{ll}
\(I c^{\prime} a-\eta k u-d e\) & \(b i e\) \\
small-PL-FOC & be.PRES.HAB \\
bie. & \\
be.PRES.HAB &
\end{tabular}
bie
be.PRES.HAB
sagdä-ŋku-de
big-PL-FOC
be.PRES.HAB
'There are small ones and large ones as well.'
b. Bi-de
me-FOC NEG-PAST-1SG
nua-da e-si-ni
he-FOC NEG-PAST-3SG die
'I didn't die, and she didn't die either.' (K 134)
(1333) Nua-ni ja:-ni-ni uligdig'a-i bi ja:-yi:-de he-3SG cow-AL-3SG beautiful-FOC me cow-AL.1SG-FOC uligdig'a.
beautiful
'Her cow is beautiful, my cow is beautiful too.'
The following examples illustrates coordination of predicative elements within copular constructions and periphrastic temporal constructions, which involve mere juxtaposition of coordinated elements.
\(\begin{array}{llll}\text { (1334) a. } & \text { Bi-de } & \text { ami-xi } & \text { eni-xi }\end{array} \quad\) bi-s'e-i.
b. Umu-i umu-le-gie tege-i teti-gie belt-REF belt-V-REP gown-REF dress-REP
\(o:-n i\).
make.PAST-3SG
'He put on a belt and a gown.' (SK 703)
\(\begin{array}{lllll}\text { c. } \begin{array}{lll}\text { Zupe } & \text { eh-le-ni } & u k e-z i \\ \text { both } & \text { side-LOC-3SG door-INST } & \text { sagdi }\end{array} \text { bi-si-ni. } \\ & \text { be-PAST-3SG }\end{array}\) 'It was large and had doors on both sides.' (SKX 78)

\subsection*{18.1.2.1.2. Shared adverbial}

As can be seen from (1335), the shared adverbial normally occupies the sentence-initial position, that is, it precedes both conjuncts. In (1335a) the locational adverbial odu 'here' and in (1335b) the temporal adverbial tue 'in winter' take scope over both conjoined clauses.
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{(1335) a.} & \[
\begin{aligned}
& O-d u \\
& \text { this-DAT }
\end{aligned}
\] & \begin{tabular}{l}
sugdä: \\
fish
\end{tabular} & \begin{tabular}{l}
bie \\
be.PR
\end{tabular} & S.HAB & & bui anima \\
\hline & \multicolumn{6}{|l|}{'Here there are fish, there are a lot of animals.'} \\
\hline b. & Tue winter & \begin{tabular}{l}
mun-du \\
we-DAT
\end{tabular} & \begin{tabular}{l}
ima: \\
snow
\end{tabular} & egdi much & ketu very & \begin{tabular}{l}
inini. \\
cold
\end{tabular} \\
\hline
\end{tabular}
'In winter we have a lot of snow, it is very cold.'

In the following sentence the subjects of two clauses sharing an adverbial take the focus particle \(-d A\).
```

(1336)Oñokto bua-di-ni mo:-do e-i
sand place-DAT-3SG tree-FOC NEG-PRP
bagdi, uli-de wac̆a, tu: ogo:-ni.
live water-FOC little all dry.PAST-3SG
'In a desert trees do not live, there is little water, and everything dries
out.' (SK 711)

```

\subsection*{18.1.2.1.3. Shared subject}

Shared subject constructions are normally expressed by non-finite verbal forms, namely, by converbs and infinitives with the coordinative function (Chapter 21); therefore coordination of finite clauses with a shared subject is not very common. However, the contrastive conjoined clause with the focus particle dele 'or else, otherwise' is fairly regular (see 12.1.1.6). Examples of some other coordinated clauses that share the subject are presented below. There are three variants of such coordinations: (i) by juxtaposition (1337); (ii) by the coordinator \(-d A\) following predicates in both conjoined clauses (1338);
and (iii) by the coordinator \(-d A\) following the predicate of the last conjunct (1339).
```

(1337)a
Uti tekpu-we-ni
that skin-ACC-3SG
men-e konz'oi-ziga-la-i
REF-0 box-DIM-LOC-REF
jeuce-le-gi-e-k.
lock-V-REP-PAST-EXPR
'She wrapped that skin, put it in her little box and locked it.'
b. Zeu\etae asi bou monto-ligi.
greenling very fat round-ADJ
'Greenling (a sort of salmon) is very fat and round.'

```
(1338) Teu jexe-ini ei-de etete.
all sing-3SG NEG-FOC work
'He only sings, and does not work.'
(1339) Škola-du tatusi-u gusi-u-de.
school-DAT study-1PL play-1PL-FOC
'At school we learn and play.'
As argued in 15.1.1 and 22.2.1.2 and illustrated again by the examples in this section, only the subject can control the coreferential null across the conjoined clause.

\subsection*{18.1.2.2. Coordinated modifier}

Udihe is characterized by a large number of conjoined clauses that do not formally share a constituent, but are closely connected in concept, and sometimes also through certain anaphoric devices. In European languages such conjoined clauses would most probably correspond to one clause with a complex structure. This is especially true when the second conjoined clause describes one of the participants of the first clause, which would correspond to a modifying structure or a relative clause in European languages.

\subsection*{18.1.2.2.1. Coordinated "relative clauses"}

As discussed in Chapter 19, like other grammatical relations, the possessor can be relativized with one of the two regular relativization strategies: the internal strategy (19.2.2.2) and the external strategy (19.1.2.3). However, such constructions are dispreferred by speakers due to their structural complexity,
and are gradually replaced by finite clauses that correspond in meaning to the relative clause, but are conjoined to the main clause. In such cases the possessor is found within the first conjunct while the second conjunct contains an anaphoric means that refers to it, normally a possessive affix and optionally an anaphoric pronoun. For the resulting sentence two translations are equally acceptable; either with a relative clause, or as a coordinated structure.
```

(1340)a. Ei a:nta bie uti zugdi-di-ni
this woman
bagdi-mi.
live-1SG]
'This is that woman in whose house I live.'
'This is that woman, I live in her house.'
b. Bi sa:-mi omo ni:-we aziga-\etai-ni
me know-1SG one man-ACC [girl-AL-3SG
Moskva-tigi \etaene:-ni.
Moscow-LAT go.PAST-3SG]
'I know one man whose daughter went to Moscow.'
'I know one man, his daughter went to Moscow.'
c. yene-je uti a:nta-tigi sita-ni
go-IMP.2SG that woman-LAT [child-3SG
uni:-ni.
be.ill-3SG]
'Go to that woman whose child is ill.'
'Go to that woman, her child is ill.'

```

Further cases of a coordinated clause with a modifying meaning are presented below. For example, in (1341a) and (1341b) the conjoined clauses 'ten meters high' and 'lives in the earth' respectively semantically modify an element of the first conjunct.

\(e\)-ini bie.
NEG-3SG be.PRES.HAB
'He brought a dog that was not vicious.'

\subsection*{18.1.2.2.2. Negative possessive modifier}

A negative possessive modifier is typically expressed in a coordinated structure by means of the Partitive forms (on them see 4.3.2). In (1342) the second clause p'a:-la anči 'there are no windows' refers to the element of the first clause zugdi 'house'. Although no anaphoric means indicates this reference, it is conceptually clear and can be rendered by a noun phrase within a single clause as 'a house without windows.' In (1342b) in a similar situation the personal marker refers to the element of the first clause: zawanku-ni anči, literally 'there is no its handle', where 'its' anaphorically refers to the element of the first conjoined clause mulexi 'bucket'. In (1342c) there are two coordinated negative possessive modifiers.

'Boxo threw (him) in the open sea without a pole or an oar.'
(SKX 278)

\subsection*{18.1.2.3. Conjoined embedded clauses}

Embedded clauses are conjoined by means of juxtaposition (1343a) or by repetition of the main clause (1343b).
(1343) a. Manga edi-ne-li--si-ni mo:
strong wind-V-INC-PC.DS-3SG tree
tijme-ne-li:-si-ni bi
fall-DIST-INC-PC-DS-3SG me
ayma-tigi \(\quad j e:-u\).
mouth-LAT enter-IMP.2PL
'After the strong wind begins and the tree falls, enter my mouth.' (SKX 324)
b. Ag'a-fai boi-se-we-ni
elder.brother-REF tie.down-PP.PAS-ACC-3SG
ise:-ti, kawa-tigi xeke:-me-ti
see.PAST-3PL tent-LAT tie.PP-ACC-3PL
ise:-ti.
see.PAST-3PL
'They saw that their elder brother was tied down and that they had tied him to the tent.' (SKX 252)

\subsection*{18.1.3. Conjunction under the scope of negation}

Constituents within one clause cannot be conjoined under the scope of negation, so the meaning 'neither ... nor' is always conveyed by a biclausal structure: \((\mathrm{a}+\mathrm{b}) \mathrm{C} \rightarrow \mathrm{aC}+\mathrm{bC}\) where \(C\) is negation and \(a\) and \(b\) are coordinated constituents. In a sentence they are often followed by the clitic particle \(-d A\) (1344a).
\begin{tabular}{llll} 
Ni: \begin{tabular}{lll} 
xokto-ni-de & anči, & bui \\
man & footstep-3SG-FOC & no \\
animal
\end{tabular} \\
xokto-ni-de & anči. & & \\
footstep-3SG-FOC & no & &
\end{tabular}
'There are neither a man's footsteps, nor an animal's footsteps.' (K 148)
b. Sugzä:-da
fish-and
\(e\)-mu
\begin{tabular}{lll} 
e-mu & diga & ule:-de \\
NEG-1PL.EX & eat & meat-and
\end{tabular}

NEG-1PL.EX diga.
'We eat neither fish nor meat.' (K 174)
(1345)
\begin{tabular}{lllll} 
Zugdi-le & \(i:-e-t i\), & abuga anči, enipe anči. \\
house-LOC & enter-PAST-3PL & father no & mother no
\end{tabular}
'They entered the house; there is neither father nor mother (there).'

\subsection*{18.2. Disjunction}

Disjunctive structures are expressed by several particles and conjunctions glossed as DIS (disjunction). On disjunctive questions see 23.1.4.

\subsection*{18.2.1. Constituent disjunction}

Constituent disjunction is fairly rare. It can be expressed by the disjunctive coordinator \(-k A \ldots-k A\) 'either ... or', which cliticizes to the disjoint constituents (1346a), with the additive focus clitic \(-d A\) on each conjunct (1346b), or by means of juxtaposition (1347).
\begin{tabular}{lll} 
Da:-ka & go:-ko & bagdi-mi. \\
short-DIS & long-DIS & live-INF
\end{tabular}
'They lived for a short time or for a long time.' (K 160)
b. Degdi-le-ni
mo:-mo-do
taluga-ma-da face-LOC-3SG tree-ADJ-FOC birch.bark-ADJ-FOC \(n i: \quad\) degde-we-ni tet-u-iti.
man face-ACC-3SG put-CAUS-3PL
'On their face they put a mask made of wood or birch bark.' (SKX 294)
\begin{tabular}{llll} 
a. & Men-e & exi-fei & nenu-fei \\
REF-0 & elder.sister-REF.PL & younger.sister-REF.PL
\end{tabular}

\subsection*{18.2.2. Clausal disjunction}

Clausal disjunction is more frequent and often corresponds to constituent disjunction in European languages.
18.2.2.1. Disjunctive coordinator \(-A s(i)\).... -As(i) 'either ... or'

The particle -Asi ... -Asi 'either ... or' normally pronounced with a reduction of the final vowel as \(-A s \ldots-A s\) is used as a clausal disjunctive coordinator, which follows predicates in both disjoint clauses. This particle causes the lengthening of the final vowel, while when it follows the vowel /i/ the resulting form has the long vowel /iel. Semantically such disjoint clauses typically share the predicate, and the same verb is repeated twice.
(1348) a. Bi bude-ze-mi-es si bude-zeje:-s. me die-SUBJ-1SG-DIS you die-FUT-DIS 'Either I will die, or you will die.'
b. jene-mi da:-la jene:-ti-es
go-INF short-LOC go.PAST-3PL-DIS
go:-lo jene:-ti-es we:-le
long-LOC go.PAST-3PL-DIS mountain-LOC
\(i: \eta-k i-t i\).
come-PAST-3PL
'While they were walking, they were walking either short or long, and came to the mountain.' (K 172)

In the following example the disjunctive coordinator conjoins two headless relative clauses.
```

(1349) Teluøu-si-li-e-ni
tell-IM-INC-PAST-3SG
anči-we-ni-esi.
no-ACC-3SG-DIS

```
'He started telling (us) about what exists or (perhaps) doesn't exist.' (SKX 248)
18.2.2.2. Disjunctive coordinator \(-k A\).... \(-k A\) 'either ...or'

The coordinator \(-k A \ldots-k A\) is used in clausal disjunction as the only coordinator (1350) or in combination with the coordinator \(-A s(i) . . .-A s(i)(1351)\). While the latter always follows the predicate (two predicates of two disjoint clauses), the former follows another constituent (an argument) that expresses one of the alternatives. The predicates are always formally identical in both clauses. Although such sentences correspond semantically to a constituent disjunction, they are formally biclausal.
ise:-mi
see.PAST-1SG
pauza-wa-ka
sheep-ACC-DIS
```

ise:-mi.
see.PAST-1SG
'I saw either a boar or a sheep.'

```
(1351) a. Eineri-ke gulin-ze-u-es

\section*{timana-ni-ke}
today-IND go-SUBJ-1PL.IN-DIS tomorrow-3SG-IND
gulin-ze-u-es.
go-SUBJ-1PL.IN-DIS
'We will leave either today or tomorrow.'
b. Nakta-wa-ka ise:-ni-es
boar-ACC-DIS see.PAST-3SG-IND
j'e-we-ke ise:-ni-es.
what-ACC-IND see.PAST-3SG-DIS
'He saw either a boar, or something else.'
\(\begin{array}{llll}\text { c. Zandalafu-ke } \quad \text { bi:-ni-es } & \text { j'eu-ke } & \text { bi:-ni-es. } \\ \text { Zandalafu-DIS be-3SG-DIS what-DIS } & \text { be-3SG-DIS } \\ \text { 'This is Zandalafu, or somebody else.' } & \end{array}\)
The following example illustrates that the clitic \(-d A \ldots-d A\) can be also used in a disjunctive function, at least by disjunction of two non-finite clauses.
```

(1352)Xekui bi:-we-ni-de gili bi:-we-ni-de
hot be.PRP-ACC-3SG-FOC cold be.PRP-ACC-3SG-FOC
akta-masi-mi.
try-DIS-1SG
'I am checking whether it is hot or cold.' (S 661)

```

\subsection*{18.3. Subordination}

As shown in Chapters 19, 20, and 21, the normal way to express subordination is through a non-finite clause, based on participles, converbs, or infinitives. Subordination expressed by a finite clause is quite rare, and, as in the case of coordination (18.1), when two finite clauses are adjacent to each other it is not always apparent whether we are dealing with a complex structure or two independent sentences. As was mentioned in 18.1.2, in such instances we can rely on prosodic criteria. This section deals only with more or less transparent cases (mostly finite complement clauses and some types of relative clauses), although some less clear examples can also be found. Adverbial finite clauses seem not to exist in Udihe.

\subsection*{18.3.1. Complement clauses}

This section addresses finite complement clauses, except for subordinate questions described in 23.1.4. A finite complement clause is governed by verbs of perception (18.3.1.1), verbs of thinking (18.3.1.2), verbs of saying (18.3.1.3), and experiential adjectives (18.3.1.4). For these verbs the subordinate finite complement clause is either the only available valence pattern, or is possible together with a non-finite complement clause (Chapter 20). The finite complement clause may follow or precede the matrix verb, and in rare cases it can also be found clause-internally, that is, when it is surrounded by elements of the superordinate clause.

\subsection*{18.3.1.1. Perception verbs}

The following verbs are able to take a finite complement clause, although they more normally co-occur with a participial complement clause (Chapter 20).
(1353)
\begin{tabular}{ll} 
ise- & 'see' \\
ise-si- & 'look at' \\
sau-pte- & 'be known by'
\end{tabular}
\begin{tabular}{ll} 
düisi- & 'hear' \\
t'osi- & 'dream'
\end{tabular}

Evidential particles (12.1.2.1) may optionally be present within the finite subordinate clause, although they are not required by any grammatical rules. If the evidential particle is present, as in (1355) below, it is basically redundant since the verbs of perception themselves indicate the source of information.
(1354)a.
Mafa
onko-si:-ni [bear
pasture-IM-3SG]
ise:-ni.
see.PAST-3SG
'He saw that the bears were pasturing.' (K 130)
\(\begin{array}{llll}\text { b. } & \text { Bi } \begin{array}{l}\text { t'osi-mi } \\ \text { me dream-1SG }\end{array} \quad \begin{array}{l}\text { minti } \\ \text { [we.IN son-1PL.IN }\end{array} & \begin{array}{l}\text { eme-zene-ni. } \\ \text { come-FUT-3SG] }\end{array} \\ \text { 'I was dreaming that our son would come.' }\end{array}\)
c. T'osi: nada kotoi-ti eme-iti. dream.PRP [seven bald-3PL come-3PL] 'She is dreaming that seven bald ones are coming.'

\(\begin{array}{ll}\text { b. } & \text { Ise-si-e-ni } \\ \text { see-IM-PAST-3SG }\end{array}\)
bagä:-za-tigi belie-n(i)-de other-N-LAT [girl-3SG-FOC
te:gi-e-ni gune.
sit-PAST-3SG EV]
'He looked at the opposite side (and saw that): a girl was sitting (there).' (K 144)
c. Nua-ni sau-pte-ini ketu mei wakca-i
he-3SG know-DEC-3SG [very strong hunt-PRP
ni: gumu.
man EV]
'It is known about him that he is a very good hunter.'

\subsection*{18.3.1.2. The verb muisi- 'think'}

The verb of thinking muisi- 'think' cannot govern a non-finite subordinate clause and is not therefore mentioned in Chapter 20. It only introduces a finite subordinate clause followed by an evidential particle (normally, gumu or, less frequently, bize). The absence of this particle results in robust ungrammaticality.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{\[
\begin{align*}
& \text { Muisi-mi }  \tag{1356}\\
& \text { think-1SG }
\end{align*}
\]} & \(e i\) & a:nta & sono-ini & gumu. \\
\hline & [this & woman & cry-3SG & EV] \\
\hline \multicolumn{5}{|l|}{'It think that this woman is crying.'} \\
\hline
\end{tabular}
\begin{tabular}{lllll} 
b. & \begin{tabular}{ll} 
Nua-ni & muisi:-ni
\end{tabular} & \begin{tabular}{l} 
uli
\end{tabular}\(\quad\) teu & xa:-ni \\
he-3SG & think-3SG & [water all & boil.PAST-3SG
\end{tabular}
gити.
EV]
'He thinks that all the water has boiled away.'
(1357) Bi muisi-mi nua-ni eme-gi-e-ni bize.
me think-1SG [he-3SG come-REP-PAST-3SG EV]
'I think that he must have come.'
Like other sentences introduced by non-factive verbs, subordinate clauses governed by the verb muisi-follow the sequence of tenses. If the event of the subordinate clause is prior to the event in the past described by the superordinate clause, this is expressed by the Pluperfect verb in the subordinate clause (1358). If the superordinate clause refers to the past, and the event of the subordinate clause is posterior in time with respect to it, this is expressed by the Subjunctive in the subordinate clause (1359).
(1358) N̄'ädiga
Nadiga
\begin{tabular}{lll} 
muisi-e-ni & \(s i\) & nuan-di-ni \\
think-PAST-3SG & [you & he-DAT-3SG
\end{tabular}
\begin{tabular}{llll} 
kesi-we & bu-o: & bi-s'e-i & gumu. \\
luck-ACC & give-PP & be-PERF-2SG & EV]
\end{tabular}
'Nadiga thought you brought him good luck.'


\subsection*{18.3.1.3. Verbs of saying}

The verb gun- 'say' is usually located to the right of the finite subordinate clause, which in this case is not followed by any evidential elements. In some contexts the meaning of this verb is rather 'think' (1360c).
\begin{tabular}{|c|c|c|c|c|}
\hline (1360) a. & Kuti [tiger & \begin{tabular}{l}
käga-wa \\
deer-ACC
\end{tabular} & \begin{tabular}{l}
diga-ini \\
eat-3SG]
\end{tabular} & \[
\begin{aligned}
& \text { gun-e-iti. } \\
& \text { say-0-3PL }
\end{aligned}
\] \\
\hline & \multicolumn{4}{|l|}{'They say that the tiger eats deer.'} \\
\hline \multirow[t]{3}{*}{b.} & Abu-ziga [ancestor-PL & \begin{tabular}{l}
ebede \\
so
\end{tabular} & \begin{tabular}{l}
nua-i \\
sleep-PRP
\end{tabular} & bi-s'e be-PERF] \\
\hline & gun-te-i-ze. & & & \\
\hline & \multicolumn{4}{|l|}{say-PERM-2SG-HORT} \\
\hline \multirow{7}{*}{c.} & \multicolumn{4}{|l|}{'Tell (him) that our ancestors used to sleep this way.' (K 106)} \\
\hline & Zandalafu & gune-m & & \(e i \quad s a\) : \\
\hline & [Zandalafu] & think & NF-FOC & [NEG know] \\
\hline & sigi-li-e-ti. & & & \\
\hline & brake-INC-P & PAST-3PL & & \\
\hline & 'Thinking th & hat Zandalafu do & not know & started to brake \\
\hline & him.'(K 107) & & & \\
\hline
\end{tabular}

Verbs of saying other than gun-, such as dian- 'say' in (1361a) and teluyusi'tell' in (1361b) usually precede the subordinate clause. The evidential particle gumu is normally located immediately to the right of the subordinate clause.
\(\begin{array}{llllll}\text { (1361)a. } & \begin{array}{llll}\text { Ni: } & \text { dian-a-iti } & \text { kuti } & \text { pauza-wa }\end{array} & \begin{array}{l}\text { diga-ini } \\ \\ \\ \text { man }\end{array} & \text { say-0-3PL } & \text { [tiger } & \text { roe-ACC }\end{array}\)
gити.
EV]
'People say that the tiger eats roes.'
\begin{tabular}{lll} 
b. & Bi abuga-tigi: & \multicolumn{1}{l}{ teluyu-si-e-mi } \\
me father-LAT.REF & story-V-PAST-1SG \\
Iwana-wa & bele-zene- \(i\) & gumu. \\
\begin{tabular}{lll} 
Ivan-ACC & help-FUT-1SG & EV]
\end{tabular}
\end{tabular}
'I told my father that I will help Ivan.'
The verb dian- 'say' may mean 'say something about somebody' and takes two non-subject arguments, one of which is expressed by the Accusative and another corresponds to the finite embedded clause:
```

(1362)Nua-ma-ni dia\eta-ki-ti ketu mei wakca-i
he-ACC-3SG say-PAST-3PL [very strong hunt-PRP
ni: gити.
man EV]
'They say about him that he is a very good hunter.'

```

The third argument of the verb teluyusi- 'tell something to somebody' is in the Dative, cf.:
(1363) Uti ni:-du \(\quad\)\begin{tabular}{l} 
teluyu-sie \\
that man-DAT \(\quad\) story-V.IMP.2SG
\end{tabular}
\begin{tabular}{l} 
sin-e-we \(\quad\) Lugi \\
you-0-ACC \(\quad\) ahi.
\end{tabular}
'Tell this man that the-3SG fairly Lugi is chasing you.' (SKX 96)

\subsection*{18.3.1.4. The verb jele- 'be afraid'}

The verb nele- 'be afraid' may introduce a participial complement clause (Chapter 20) and - in a different subject situation - a finite clause where the verb is in the Future or Subjunctive:
```

(1364)Bi yele-mi Iwana eme-ze\etae-ni
me be.afraid-1SG [Ivan come-FUT-3SG
(or: eme-ze) gun-e-mi.
(come-SUBJ) say-0-1SG]
'I am afraid Ivan will come.'

```

\subsection*{18.3.1.5. Experiential adjectives}

Certain experiential adjectives among those listed in (17.2.3.1) introduce a finite subordinate clause that is not controlled by any element of the
superordinate clause. In particular, it cannot be controlled by the Dative experiencer, as can non-finite infinitival subordinate clauses (20.1.1.3).


\subsection*{18.3.2. Relative clauses}

The Relative clause is typically non-finite (Chapter 19). Quite regularly a finite relative clause is only used in these two cases: when it is a generalized relative clause (18.3.2.1), or an equative relative clauses (18.3.2.2).

\subsection*{18.3.2.1. Generalized relative clause}

Generalized relative clauses express a non-specific indefinite meaning. They have an empty head the reference of which is determined by the relative clause itself. In other words, they express a proposition which refers to the whole class of objects defined by the relative clause, such as, for example, in \(j\) 'e-digi-de eme-gi:-si 'wherever I come from' <what-ABL-IND come-REP-PC.1SG>. Structurally, the generalized relative clause can be both finite and non-finite. Examples of non-finite generalized relative clauses are presented in 19.5.2.
In all types of generalized relative clauses an indefinite non-specific pronoun is present (see section 9.6.2 on the morphology of such pronouns). It denotes the class of objects that the generalized relative clause describes, and takes the corresponding morphological form. The superordinate clause may contain its
overt semantic correlate, but this is not necessary. Examples (1366) show the finite generalized relative clause.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{(1366) a.} & Nua-ni he-3SG & \begin{tabular}{l}
teu \\
all
\end{tabular} & nixe:-ni do.PAST-3SG & \begin{tabular}{l}
min-tigi \\
[we-LAT
\end{tabular} \\
\hline & \multicolumn{2}{|l|}{j'e-we-de} & \multicolumn{2}{|l|}{dian-ki-ni.} \\
\hline & \multicolumn{4}{|l|}{what-ACC-IND say-PAST-3} \\
\hline & 'He did eve & ythin & told us.' & \\
\hline
\end{tabular}
b. Ono-do ja: sin-e-we
uisigi-zene-i
bi.
[how-IND PROV] you-0-ACC rescue-FUT-1SG me 'Whatever happens, I will rescue you.' (K 188)
c. Ali-de
bagdi: min-du
wo-u-ze-i.
[where-IND live.2SG] me-DAT
kill-PAS-SUBJ-1SG
'Wherever you live, I will kill you.' (K 163)
d. J'eu
ba:-dexem
yeni:
exi-mi
[what place-IND go.PRP]
sister-REF
gene-gi-ze-mi.
bring-REP-SUBJ-1SG
'I will bring my sister back, wherever she has gone.'

\subsection*{18.3.2.2. Equative relative clause}

The equative relative clause is finite and corresponds to the correlative structure with the correlative anaphoric pronoun (u)ti 'that' (22.1.2.2). Non-finite correlative clauses are addressed in 22.1.3.

ana-si:.
night.shelter-V.PRP
'One used to make a night tent where there were dry trees.'
e. J'e-le bui egdi bi-si-ni ta-la
what-LOC animal many be-PAST-3SG that-LOC
bagdi:
live.PRP
'One used to live where there were many animals.'
\begin{tabular}{llll} 
f. & Ni & zomi: & bi:-si-ni \\
& who & steal.PRP & be-PAST-3SG
\end{tabular}

The meaning 'the more .... the more' is expressed by means of repetition of the adverb eli 'soon':
```

(1368)Eli sagdi ede-ini eli aja-zi
soon big become-3SG soon good-INST
mä:usa-la-ini.
gun-V-3SG
'The more grown up he becomes, the better he can shoot.'

```

\subsection*{18.4. Direct speech}

Verbs of reporting that usually introduce direct speech are the following:
\begin{tabular}{rlll} 
(1369) teluqusi- & 'tell' & \begin{tabular}{l} 
gun- \\
dian-
\end{tabular} & 'say' \\
xaundasi- & 'ask' & 'say' \\
xetinde- & 'shout' & \begin{tabular}{l} 
kaja-
\end{tabular} & 'order' \\
bodosi- & 'think' & danisi- & 'curse'
\end{tabular}

Their phonetic form appears to be dependent on their position in the sentence. If they precede a direct speech quotation, they are usually pronounced with an emphatic non-phonemic lengthening of the final vowel (2.1.5.1, 2.1.5.2), as, for example: teluŋu-si-e-nie (<telequ-si-e-ni) 'he told' <story-V-PAST-3SG>. On the other hand, when they follow a quotation in direct speech they appear in a shortened form with a reduced final vowel (2.1.5.3), for example: gur-ki-n (< \(g u \eta-k i-n i\) ) 'he said' <say-PAST-3SG>. These phonetic changes are not reflected in the examples presented below.

\subsection*{18.4.1. Direct speech introduced with evidential particles}

All the verbs listed in 18.4.1 with the exception of the verb gun- 'say' require that the evidential particle gumu or gune follow the quotation in direct speech, for example:

c. Ei ma:ma j'eu digay-ka tuxi-we this grandmother what say-PERF [sledge-ACC xebu-je gumu, ni-de anči take-IMP.2SG EV] who-IND no EV
'This grandmother said: Bring the sledge, (but) there was nobody there.' (K 109)
d. Si xaundasi-je Iwana mäunda-ni j'e-we
you ask-IMP.2SG [Ivan gun-3SG what-ACC
gити.
EV]
'Ask (him): Is it Ivan's gun or somebody else's?'
The evidential particle may be absent in a very long direct speech quotation, or in a dialogue when verbs of saying introduce the direct speech of several speakers alternately.

\subsection*{18.4.2. The verb gun- 'say'}

The verb gun- sometimes repeats another verb of saying already present in the sentence. Thus, in (1371) the direct speech is introduced and preceded by the verb dian- 'say', however, the verb gun- follows the quotation. Its morphological form "doubles" the form of the first verb of saying (the \(1^{\text {st }}\) person Singular in this case).
```

(1371)Bi dian-a-i bi-s'e-i sin-tigi
me say-0-PRP be-PERF-ISG you-LAT
e-zi
[NEG-IMP.2SG
\etaene gu\eta-ki-mi.
go] say-PAST-1SG
'I told you: Don't go.

```

Alternatively, the verb gun- can act as the only means to introduce direct speech, in which case it always follows the quotation. The subject of the superordinate clause that introduces the direct speech may precede the quotation, as in (1373).
```

(1372)a.

```

```

'Earlier they were counting themselves and said: There are nine of
us.' (K 30)
b. Digan-ta-i-ze
[[say-PERM-2SG-HORT
xebu-je gur-ke
take-IMP.2SG s ay-PERF]
tuxi-we
gu\eta-ki-ni.
say-PAST-3SG
'She said: tell (them) that I told (you): Take the sledge.' (K 109)
(1373) a. Exi-ni mo-lo-zo-m(i) mo-lo-zo-m(i)
sister-3SG [tree-V-SUBJ-1SG tree-V-SUBJ-1SG
bi mo-lo-zo-m(i) gu\eta-ki-ni.
me tree-V-SUBJ-1SG] say-PAST-3SG
'Her sister said: I shall, I shall, I shall cut trees.' (K 104)
b. Belie i\etake gu\eta-ki-ni.
fairy [OK] say-PAST-3SG
'The fairy said: OK.' (K 160)

```

\subsection*{18.4.3. Ellipsis of the verb of saying}

The verb of saying may be entirely absent from the sentence with direct speech, while the other verb within the matrix clause takes a non-finite form (the Infinitive in (1374) and the Past Participle in (1375)). Since these forms do not normally function as an independent predicate, this indicates that we are in fact dealing here with an incomplete structure: the finite verb of saying is omitted.
a. Eme-gi-mie, e: enine, aziga-ziga come-REP-INF [INTER mother girl-PL \(i:-l e \quad b i:-n i\) ? this-LOC be-3SG] 'Having come (he said): Mother, where are the girls?' (K 106)
b. Ise-si-gi-e-ni, see-IM-REP-PAST-3SG mamaka- i : mule bi-mi wife-AL.REF with be-INF ana-si-e. [night.shelter-V-IMP.2SG]
'He can see that the old man Kanda lives with his wife (and says): Stay for the night.'
\begin{tabular}{|c|c|c|c|}
\hline Omo-so one-ADJ & emende witch & \begin{tabular}{l}
te: \(n-z i\) \\
sit.PP-INST.SS
\end{tabular} & egdene [interesting \\
\hline \(n i=-x i-d e\) & \multicolumn{3}{|c|}{bi-ze-ni.} \\
\hline \multicolumn{4}{|l|}{man-ADJ-FOC be-SUBJ-3SG]} \\
\hline 'One witch (said (K 181) & while) si & sitting: It is interesting, & people \\
\hline
\end{tabular}

\subsection*{18.4.4. The Imperative in direct speech}

In sentences that involve the Imperative in direct speech, the addressee of the imperative utterance may be optionally expressed within the superordinate clause as the Accusative object. Such sentences therefore form object control structures, where the direct object is coreferential with the subject of the subordinate clause. Examples are:
    me grandfather-1SG
        ninka-wa buolime-we
    we-je guy-ki-ni.
    grow-IMP.2SG]
                                say-PAST-3SG
    'My grandfather told the Chinese people: Grow corn!'
b. Bi enine-we
    me mother-ACC shout.PAST-1SG [meat-ACC
    olokto-jo gumu (gur-ki-mi).
    cook-IMP.2SG EV (say-PAST-1SG)]
    'I shouted to my mother: Cook some meat!'

'I ordered my son: Don't tell Ivan the truth!'

\section*{Chapter 19}

\section*{Relative clause}

Relative clauses are expressed with different types of participles that determine the relativized noun: the Active (7.6.1.1), Passive (7.6.1.2), Destinative (7.6.1.3), and Resultative (7.6.1.4) participles. The semantic relation between the head and the active participle can be of a very wide character, since this participle is not oriented semantically to refer to any particular participant (see 7.10.1.1). Different syntactic positions can be relativized by means of the active participle: Nominative (1377a), Accusative (1377b), Locative (1377c), Instrumental (1377d), Dative (1377e), the time adverb (1377f), and, more seldom, the possessor (1377g).
```

(1377) a. Ni: su:le-i-we-ni-de ja-u-mi.
[man be.ill-PRP-ACC-3SG-FOC] medicine-CAUS-1SG
'I cure the people who are ill.'
b. Bi od'o-i zugdi-we
[me grandfather-1SG house-ACC
wo:n-di-ni bi bagdi-mi.
make.PP-DAT-3SG] me live-1SG
'I live in the house which my grandfather built.'

| c. | $B i$ anda- $i$ | xoton-tigi | yene-ini |
| :--- | :--- | :--- | :--- |
| me friend-1SG | city-LAT | go-3SG | bi |
| ag'a- $i$ | xoton-du | bagdi:-le-ni. |  |

    brother-1SG city-DAT live.PRP-LOC-3SG]
    'My friend goes to the city where my brother lives.'
    d. Bi in'ei-we gazi-e-mi bi
me dog-ACC take-PAST-1SG [me
sita-i \etaele-i-we-ni.
son-1SG be.afraid-PRP-ACC-3SG]
'I took away the dog of which my son is frightened.'
e. Bi si suese-we bu-o:-i ni:-we
[me you axe-ACC give-PP-2SG] man-ACC
ise:-mi.
see.PAST-1SG
'I saw the man to whom you gave the axe.'

```
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{4}{*}{f.} & Bi abuga-i & kuti-we & \begin{tabular}{l}
wa:-i-ni \\
kill-PRP-3
\end{tabular} \\
\hline & neni-ni bagdi & e-mi. & \\
\hline & day-3SG born-P & AST-1SG & \\
\hline & \multicolumn{3}{|l|}{'I was born on the day when my father killed the tiger.'} \\
\hline \multirow[t]{5}{*}{g.} & Si a:nta & nemu-me-ni & \\
\hline & you [woman & younger.si & ACC-3SG \\
\hline & wa:n-tigi-ti & уепе:-i. & \\
\hline & kill.PP-LAT-3PL] & go.PAST-2 & \\
\hline & You went to the w & an whose & was killed \\
\hline
\end{tabular}

Almost every element of the superordinate clause, therefore, can be relativized with the help of the active participle. It does not seem possible to relativize the adverbial syntactic positions expressed by a postpositional phrase and the standard of comparison. Examples of relativization into a subordinate clause are missing and we will assume that even if they are theoretically possible, they are extremely unusual in Udihe.

The Passive, Resultative, and Destinative Participles are inherently oriented to express a particular participant of the situation - a patient/theme (passive participle, but see exceptions in experiencer of the resultative situation (Resultative Participle), or an object destined for action (Destinative Participles). Therefore in relative clauses with these types of participles only these particular roles are relativized.
There are three major types of relative clause - external, internal, and discontinuous, described in sections 19.1, 19.2, and 19.3, respectively. They use different formal strategies with respect to the position of the participle and in marking the syntactic role of the relativized noun. The external relative clause is prenominal and uses the so-called gapping strategy, that is, the grammatical role of the relativized noun is not overtly indicated within the relative clause but corresponds to the syntactic gap. In the internal relative clause the participle is postnominal and corresponds to the syntactic head of the relative clause, while a relativized noun is internal to the relative. In the discontinuous clause the relativized noun and the relative clause are not adjacent to each other. There are no syntactic and/or semantic restrictions on forming external and internal types of relative clause; both strategies apply to all grammatical relations accessible to relativization. The discontinuous clause is a marginal type, which allows only the subject and the direct object to relativize. Within each strategy there are additional formal differences between the cases in which the head noun corresponds to the subject of the relative clause, and in which the head noun does not coincide with the subject of the relative clause.
From the communicative point of view, internal and discontinuous relative clauses seem to involve the topicalization of the relativized noun (on the notion of topic and topicalization of other sentence elements see Chapter 24). In fact, they are structurally similar to other postnominal modifiers available when the head
noun is topicalized (24.2.1). Semantically, it appears that only internal and discontinuous relative clauses may be non-restrictive, while a restrictive interpretation is possible for all three types.

The word order within the relative clause may vary, but its predicate always occupies the last linear position, while its subject (if different from the head noun) must be clause-initial within the external relative. However, this is not necessarily so within the internal relative clause.

The structure of this chapter is based on a formal classification of relative clauses. Apart from the three major types mentioned above, it also describes the copular relative clause (19.4), the headless relative clause (19.5), and depictives (19.6).

\subsection*{19.1. External strategy}

In external relative clauses the predication is mostly expressed with active participles, Destinative Participles, and Resultative Participles. Passive participles, although possible, are very rarely used in this type for an obvious pragmatic reason. Normally passive participles occur only if the head noun with the semantic role of the patient in the relative clause has a more topicalized status than the agent. Therefore in a relative clause with passive participles the head noun (patient) should be highly topical, and the internal (topicalizing) relative clause strategy (19.2) is mostly used.

The most important formal features of the external strategy are the prenominal position of the participle and gapping of the relativized noun within the relative clause.

\subsection*{19.1.1. Relativized subject}

To relativize a subject with the external strategy, that is, when the head noun coincides with the subject of the relative clause, only impersonal forms of participles are used. Plurality may be marked with the collective word getu following the participle. The head noun follows the relative clause. The subject is absent (gapped) from the relative clause.

If the relativized noun also corresponds to the grammatical relation of the subject of the superordinate clause, it takes a Nominative form.

```

b. Buni: käna bu zulieli-u ili:-ni. [bellow.PRP] deer we front-1PL.EX stand-3SG 'The bellowing deer is standing in front of us.'
c. Songo-i getu n'aula susa:-ti. [cry-PRP PL] child escape.PAST-3PL 'The crying children escaped.'

```

The following example demonstrates number agreement between the head and the relative clause:
\begin{tabular}{llll} 
(1379) Inixi & osi-gi-e & getu & čawa-ziga
\end{tabular} \begin{tabular}{l} 
amäixi \\
[alive become-REP-PP
\end{tabular}\(\quad\) PL] \begin{tabular}{lll} 
soldier-PL & backwards \\
susa-gi-li-e-ti. & & \\
escape-REP-INC-PAST-3PL & & \\
'The soldiers who remained alive ran back.' (SKX 270) &
\end{tabular}

When the syntactic role of the head in the superordinate clause is different from the subject, it is marked by case suffixes or postpositions.


The same pattern is used with the Destinative (1381) and Resultative (1382) participles (passive participles are not possible in this type). In both cases the head noun acts as a subject of the relative clause, although semantically it has the role of experiencer.


\subsection*{19.1.2. Other positions relativized}

If the syntactic role of the head in the relative clause is other than the subject, within the relative clause there is a syntactic subject position. The subject of the relative clause takes the Nominative form. The participle is used in its personal form; the personal inflections refer to the person and number of the subject of the relative clause. The head noun corresponds to the syntactic gap within the relative clause.

\subsection*{19.1.2.1. Same-subject and different-subject sentences}

Different-subject forms indicate that the subjects of the two clauses are not identical (1383). Same-subject participial forms express coreference of the relative clause subject with the subject of the superordinate clause (1384).

\footnotetext{
(1383) a. Bu sa-u su bagdi-e-u zugdi-we. we know-1PL.EX [you live-PP-2PL] house-ACC 'We know the house where you lived.'
b. \(S i\)
b'a-i siekte nemnes'e-ndime.
[you find.PP-2SG] thread narrow-ADJ
'The thread which you found is narrower.'
}
c. Bi bu-o:-mi zä:-ni-we-i minti
me give-PP-1SG money-AL-ACC-1SG [we
ana-si-e-fi ni:-du.
night.shelter-V-PP-1PL.IN] man-DAT
'I gave money to the man with whom we stayed.'
d. Bi nakta-wa
me boar-ACC
kusige-si-e-mi
\(b i\)
od'o-i anana wakca:-ni kusige-zi. grandfather-1SG long.ago hunt.PP-3SG] knife-INST
'I stabbed the boar with the knife with which my grandfather used to hunt.'
\begin{tabular}{llll} 
a. \begin{tabular}{l} 
Nua-ni umi-e-ni \\
he-3SG drink-PAST-3SG \\
'ai-we.
\end{tabular} & \begin{tabular}{l} 
men-e \\
vodka-ACC \\
[REF-0
\end{tabular} & \begin{tabular}{l} 
gada:-mi \\
buy.PP-SS]
\end{tabular} \\
'He drank the vodka which he bought.'
\end{tabular}
(1384)

\subsection*{19.1.2.2. Impersonal and passive relative clauses}

The following example illustrates the agentless relative clause used to de-emphasize the subject. As in finite agentless constructions (see 16.2.5), the lexical subject of the relative clause is absent and the \(3^{\text {rd }}\) person plural different-subject inflection on the participle form is used.
(1385) Tiyeni
[yesterday
oño-u-ŋ-ki-ti
write-PAS-CAUS-PP-3PL]
bi b'a-mi.
me get.PAST-1SG
'Today I got the letter written yesterday.'
\[
\begin{array}{ll}
\text { oño-wo } & \text { eineyi } \\
\text { letter-ACC } & \text { today }
\end{array}
\]

A similar meaning is rendered by the relative clause with the passive participle where the head noun corresponds to the patient/theme argument. The subject is absent on the surface.
(1386) a. Tugbu-se
mo:-lo
tree-LOC
\(\begin{array}{lllll}\text { b. } & \text { E-u } & \text { tagda } & \text { aziga } & \text { eme:-ni. } \\ \text { NEG-PAS } & \text { recognize } & \text { girl } & \text { come.PAST-3SG }\end{array}\)
'An unknown girl came.'

\subsection*{19.1.2.3. Relativized possessor}

Possessor relativization is a very rare option. When the possessor is relativized, it takes the Nominative form and precedes the impersonal form of the participle. The head of the possessive construction is located after the participle and takes the \(3^{\text {rd }}\) person inflection normally used in possessive constructions (13.1). It can also have the suffix marking the role of the possessor in the superordinate clause such as the Accusative marker in example (1387).
```

(1387) Bi a:nta gada-i zugdi-we-ni
me woman [buy-PRP house-ACC-3SG]
b'agdi-e-mi.
meet-PAST-1SG
'I met the woman whose house you bought.'

```

\subsection*{19.1.3. Destinative Participles with the Past meaning}

As mentioned in 7.10.1.3.2, Destinative Participles may occasionally have a Past meaning. It should be noticed that in Schneider's description (Schneider 1936: 122) the Participles in -kči are treated as a regular subtype of the active Past Participles without any reference to their destinative meaning. Unfortunately, examples of their usage as active Past Participles are not given. Participles with the suffix -kči may behave as a regular Past active participles in the modern Bikin dialect as well. However, in most cases in our material, participles with the suffix \(-k c ̌ i\) are definitely Destinative in different syntactic functions. Their use as active Past Participles without a destinative meaning is restricted to the few cases cited below and seems to be obsolete.

In the impersonal form such participles modify a head noun that corresponds to the subject role (1388). Personal forms are employed otherwise (1389).
\(\begin{array}{llllll}\text { (1388) a. } & \begin{array}{l}\text { Zugzä:-wa }\end{array} & \text { zomi-kči } & \text { jandasi c'o } \\ \text { [fish-ACC } & \text { steal-DP] } \\ \text { dian-a-ini. }\end{array}\)

\begin{tabular}{|c|c|c|c|c|c|}
\hline & Ei bi this [me & \begin{tabular}{l}
mafa-i \\
husband-1SG
\end{tabular} & suŋgele-kčìni give-DP-3SG] & & хиа. flower \\
\hline \multicolumn{6}{|c|}{'These are the flowers given by my husband.'} \\
\hline \multirow[t]{2}{*}{b.} & Ei ta:mati & Petro & \(b u-k c ̌ i-n i\) & & kusi \\
\hline & this [last.year & P Peter & give-DP-3SG] & & knife \\
\hline & \multicolumn{5}{|l|}{'This is the knife which Peter gave (me) last year.'} \\
\hline \multirow[t]{2}{*}{c} & Ivana & gazi-kči-ni & suala & \(g e:\) & m'ei. \\
\hline & [Ivan & give-DP-3SG] & ski & bad & only \\
\hline
\end{tabular}
'The skis given by Ivan are bad.'
Details about this type are not clear. The possibility always exists of using the active Past Participle in the same sentence, cf. (1390). It seems, however, that (1390) does not express the focusing of the subject, as distinct from (1389a).

Ei bi mafa-i
sungele:-ni
give.PAST-3SG]
хиа.
this [me husband-1SG
flower
'These are the flowers given by my husband.
19.1.4. External relative clauses with case agreement

Attributive agreement in case is otherwise absent in Udihe, but with some exceptions, as in 13.3.6. Case agreement within an external relative clause is vary rare. It is only possible in the Accusative.
Ni:-we wa:-ma-ni
[man-ACC kill.PP-ACC-3SG]
amä:sa-wan-a.
leave-CAUS-0
\begin{tabular}{ll} 
mafa-wa & \(e\)-iti \\
bear-ACC & NEG-3PL
\end{tabular}
leave-CAUS-0
'They didn't leave the bear that had killed a man.' (SK 292


\subsection*{19.2. Internal strategy}

In this type of relative clause the subordinate participle follows the relativized noun and is immediately adjacent to it. The relativized noun tends to be located at the beginning of the superordinate clause, often (but not exclusively) in the clause-initial position and is likely to be topicalized. If it is not clause-initial, the subject of the superordinate clause may precede it.

This strategy provides examples of the so-called "internal" relative clause (Keenan 1985); the relativized noun is internal to the relative clause and does not constitute its syntactic head. Sentence (1392b) exemplifies the external (gapped) relative clause and (1392c) illustrates the internal relative clause. The gap is shown by the symbol \(\varnothing\). In (1392c) the relativized noun occupies the same syntactic position as in the initial sentence (1392a), namely, is direct object encoded by the Accusative. Note that the relativized noun in (1392c) does not control number agreement into the superordinate clause, as does the head noun in (1392b).
\begin{tabular}{llll} 
(1392) a. & Bi od'o- \(i\) & zugdi-ziga-we & wo:-ni. \\
& me grandfather & house-PL-ACC & make.PAST-3SG \\
& 'My grandfather built houses.' & \\
b. & \(B i\) od'o- \(i\) & wo:-ni & zugdi-ziga \\
& [me grandfather \(\varnothing\) & make.PP-3SG] & house-PL
\end{tabular}
'The houses built by my grandfather are beautiful' or: 'As for the houses built by my grandfather, they are beautiful.'

The participle bears case markers that show the syntactic role of the relativized noun within the matrix clause. In different-subject sentences it is also marked for the Possessive which cross-references the relative clause subject.

The relativized noun must immediately precede the participle, while all secondary elements within the internal relative clause precede the relativized noun and typically the embedded subject as well:



\subsection*{19.2.1. Relativized subject}

No Destinative or Resultative Participles are found in this type, with the exception of rare examples where the Destinative Participles function as the Past Participle (7.10.1.3.2).
\begin{tabular}{lllll} 
(1394) \(B i\) & sita-i & jexe-kči & \(j\) 'eu-ke & nene:-ni. \\
[me & son-1SG sing-DP] & what-IND & go.PAST-3SG \\
'My son went somewhere, singing.' &
\end{tabular}

The same-subject sentences use impersonal participles. Plurality may be marked by the collective word getu, cf. (1396).
\begin{tabular}{|c|c|c|c|}
\hline (1395) a. & Bi ñansule-mi [me study-INF etete-zene-i. work-FUT-1SG & \begin{tabular}{l}
metu-o: \\
finish-PP]
\end{tabular} & bolnica-le hospital-LOC \\
\hline & 'Having finished & tudies, I & rk at a hospit \\
\hline
\end{tabular}
```

    b. Ei b'ata sagdi ede: wakca-i
    [this boy big become.PP] hunt-PRP
    ni: ede-ze\etae-ni.
    man become-FUT-3SG
    'This boy when he grows up will be a hunter.'
    c. Teи metu-o:
[all finish-PAST]
sewe-si:-ni
spirit-V-3SG
'Having finished everything the shaman (beats) the tambourine and calls spirits before the fire.'
d. B'ata sagbai
[boy barefooted
camna:-tigi-ni break.PP-LAT-3SG]
'The barefooted boy was running everywhere, and wounded his foot on a broken stone.'
(1396)

| a. | Ni:-ziga | ule:-we | xuene-i |
| :--- | :--- | :--- | :--- |
| [man-PL | meat-ACC $\quad$ cut-PRP | getu |  |
| kusige-we | nodo:-ti. |  |  |
| knife-ACC | lose.PAST-3PL |  |  |

'The people who were cutting the meat lost the knife.'

| b. | Wac'a | esi-gi-e-ni | ni: |
| :--- | :--- | :--- | :--- |
| few | become-REP-PAST-3SG | suala-nisi-mi |  |
| noni: | getu. |  | ski-V-INF |

```

If the subjects of the superordinate and the relative clause are not coreferential but the relativized noun is the subject of the relative clause, the personal participle forms are used. The participle takes the \(3^{\text {rd }}\) personal suffix and the case suffix or the postposition marking the syntactic role of the relativized noun in the superordinate clause.
\begin{tabular}{rlll} 
(1397) a. & Bi mo: & zegde-i-le-ni & bi-si-mi. \\
& me [tree burn-PRP-LOC-3SG] & be-PAST-1SG \\
& 'I was in the burning forest.' & \\
b. & Moxo camna:-ma-ni & aisi--gi-u-zene. \\
& [mug break.PP-ACC-3SG] & mend-REP-PAS-FP \\
& 'The broken mug should be mended.' &
\end{tabular}
c. Aziga sebzenke jexe-i-we-ni teu
[girl interesting sing-PRP-ACC-3SG] all
aju-iti.
like-3PL
'Everybody likes the girl who sings nicely.'
d. \(B u\) a:nta ñoligi seune-we
we [woman blue kerchief-ACC
seunele:n-zi-ti dia-si-e-mu.
put.on.PAST-INST-3PL] say-IM-PAST-1PL.EXC
'We were talking to the women who put on the blue kerchief.'
e. A:nta songo-i-we-ni [woman cry-PRP-ACC-3SG] take-PAST-3SG
'He took away the crying woman.' (Schneider 1936: 14)
\begin{tabular}{lllll} 
f. & Omo & tukca & saja & culini \\
[one & hare & hole & through \\
Kanda & mafa & & ku'ai-ni \\
Kanda & old.man & ear-3SG \\
pali-gde & & \multicolumn{2}{l}{ ningada:-ni. } \\
black-FOC & & grease.PAST-3SG
\end{tabular}

\author{
xetigeni:-we-ni jump.PRP-ACC-3SG] due-le-ni \\ top-LOC-3SG
}
gazi-e-ni.
'The old man Kanda greased the hare which jumped through the hole with black on its ears.'
g. Aziga ma:ma-i uli:-ni
girl [grandmother-REF sew.PRP-3SG
ca:-du-ni gusi:-ni.
behind-DAT-3SG] play-3SG
'The girl is playing behind the sewing grandmother.'

\subsection*{19.2.2. Other positions relativized}

If the syntactic position relativized is other than the subject, the topicalized relativized noun precedes the relative clause. It takes the case marker, showing its syntactic role in the subordinate clause. The participle takes the case suffix which marks the role of the head noun within the superordinate clause and the personal inflection referring to the subject of the relative clause. Thus, the relativized noun and the participle might not have the same case. The subject of the relative clause usually precedes the relativized noun, as is demonstrated by most of the examples cited in this section. However, it may also follow it, cf.:

b. \begin{tabular}{lll} 
Gazi-je & \begin{tabular}{l} 
oloxi-we \\
take-IMP.2SG
\end{tabular} & \begin{tabular}{l} 
bi \\
[squirrel
\end{tabular} \\
me & tipeni \\
yesterday
\end{tabular}
wa:-ma-i.
kill.PP-ACC-1SG]
'Take the squirrel that I killed yesterday.'
c. Ei tege-we si uli-e-i
[this gown-ACC you sew-PP-2SG]
musei-du bi:-ni.
museum-DAT be-3SG
'This gown that you made is in the museum.'

\subsection*{19.2.2.1. Same-subject and different-subject sentences}

Examples (1399) demonstrate different-subject sentences, and examples (1400) same-subject sentences. Examples (1401) show the impersonal relative clause where the participle is marked for the \(3^{\text {rd }}\) person Plural.

```

(1400) a. Belie-we
[fairy-ACC
b'an-zi-fi
meet.PP-INST-SS]
a\etaa-si-e:-ti.
night.shelter-V-PAST-3PL
'They spent the night with the fairy they met.' (Schneider 1936: 143)

| b. | Men-e | käna- $i$ | $w a:-m i$ |
| :--- | :--- | :--- | :--- |
|  | [REF-0 | deer-REF | kill.PP-SS |

    te-ini.
    sit-3SG
    'He is sitting near the deer he killed.'
    a. Xaluga-wa | gala-la-ni |
| :--- |
| [hammer-ACC $\quad$ hand-LOC-3SG |
| asukta-gi-he-ni |
| untie-REP-PAST-3SG $\quad$ Tuguma. |
| 'Tuguma untied the hammer tied to his-me-ti (father's) hand.' |
| (Schneider 1935a: 12) | tuguma.

b. Abdä:
leaf [tree-ACC cut.down.PP-LOC-3PL] tipmele:-ti.
fall.PAST-3PL
'The leaves were falling down on the cut tree.'

```

\subsection*{19.2.2.2. Relativized possessor}

When the possessor is relativized it precedes the possessed noun which takes the \(3^{\text {rd }}\) person inflection, so this configuration does not differ from the regular possessive construction (13.1). In its turn the possessed noun is followed by the participle which has the case suffix showing the role of the relativized noun in the superordinate clause and the personal inflection referring to the subject of the relative clause. In (1402a) the possessed noun emugde-ni 'his stomach' corresponds to the subject of the relative clause, therefore it is not case-marked.
\begin{tabular}{llll} 
(1402) a. & \begin{tabular}{l} 
N'aula \\
[child emugde-ni
\end{tabular}\(\quad\) stomach-3SG hurt.PRP-LOC-3SG] & enine-ni \\
caja-wa & bu-o:-ni.
\end{tabular}

If the syntactic role of the possessed noun in the relative clause is other than the subject, it is indicated by the case suffix on the possessed noun, for example, the Accusative suffix on igi-we-ni 'his tail' as in (1403a) or nemu-me-ni 'her brother' in (1403b).
```

(1403) a. In'ei igi-we-ni xua-nda:-ti
[dog tail-ACC-3SG cut-SEM-PP-3PL]
eme-gi-e-ni.
come-REP-PAST-3SG
'The dog whose tail was cut off came.'
b. Si a:nta ne\etau-me-ni
you [woman younger.sibling-ACC-3SG
wa:n-tigi-ti yene-i.
kill.PP-LAT-3PL] go-2SG
'You are going to a woman whose brother was killed.'

```

\subsection*{19.2.2.3. Passive and Resultative relative clauses}

Passive participles are often used within the internal strategy. The relative clause with the passive participle is always impersonal (that is, its subject is either indefinite or generic). The relativized noun in passive relative clauses is also its object and is marked for the Accusative. The role of the relativized noun within the superordinate clause is marked by the corresponding case suffix on the participle. The passive participles lack personal forms. The following examples illustrate the use of the Past passive participles (1404), the combined Passive-Resultative participle with a passive meaning (1405a), the ordinary Resultative Participle (1405b), and passive Necessitative participles (1406).
a. Kusige-we
[knife-ACC
\(z u\) :-se-zi
ule:-we
di:-ni.
cut-3SG
'He is cutting the meat with the sharpened knife.'
b. Mo:-wo tugbu-se-le \(\quad\) te:-mi.
[tree-ACC
fell-PP.PAS-LOC] sit-1SG
'I was sitting on the fallen tree.'
c. Ei bi xebu-si-mi gampa-wa
this me bring-IM-1SG [porridge-ACC
olokto-so-wo.
cook-PP.PAS-ACC]
'Now I bring the cooked porridge.'
\(\begin{array}{llll}\text { d. } & \begin{array}{ll}\text { Mo: } & \text { mo-lo-so } \\ \text { [tree } & \text { tree-V-PP.PAS] }\end{array} & \begin{array}{l}\text { kä:-di-ni } \\ \text { side-DAT-3SG }\end{array} & \begin{array}{l}\text { egdi } \\ \text { much }\end{array}\end{array}\)
bie.
be.PRES.HAB
'There is a lot of cut wood next to him.'
\begin{tabular}{llll} 
(1405) a. & \(B i \quad\) te:-mi & wopti-we & kimpi-ktu-se \\
& me sit-1SG & [door-ACC & close-RES-PP.PAS \\
& \(c a:-\) du-ni. & \\
& behind-DAT-3SG] & \\
& I am sitting near the closed door.'
\end{tabular}
b. Bi b'a-gi-e-mi kusige-we campi-ktu-we. me find-REP-PAST-1SG [knife-ACC break-RES-ACC]
'I found a broken knife.'

19.2.3. Internal relative clauses with case-agreement

In certain fairly rare cases the relativized nominal and the participle may be marked with the same case (always the Accusative). Case agreement in internal relative clauses is more frequent than in external relative clauses, especially in the Northern dialect. In principle, it may be analyzed either as an instance of "real" agreement (1407), or as a kind of apposition (1408). In the latter case the head nominal is extracted out of the relative clause and is typically separated from it by a pause and an intonation break.
\begin{tabular}{llll} 
(1407) a. & Su:-we & su:-ne-i-we-ni & tokö \\
& [sun-ACC & son-V-PRP-ACC-3SG] & cloud \\
& dakpi-e-ni. & & \\
& cover-PAST-3SG & & \\
& 'The cloud covered the shining sun.'
\end{tabular}
b. \(\mathrm{Zu}: \quad\) mafa sita-wa-ni
[two bear child-ACC-3SG
eme-i-we-ti b'a-ni.
come-PRP-ACC-3PL] get.PAST-3SG
'He met two coming bear cubs.' (SKX 82)
\begin{tabular}{llll} 
(1408) a. & Ni:we & jagdugu-xi & bi:-we-ni \\
& [man-ACC\} & [spectacles-ADJ & be.PRP-ACC-3SG] \\
& ise:-mi. & & \\
& see.PAST-1SG & \\
& 'I saw a man, a bespectacled one.'
\end{tabular}

\subsection*{19.3. Discontinuous relative clauses}

The relative clause can be separated from its head by other lexical material. In this case the relative clause is normally either postposed after the finite verb or fronted to the beginning of the sentence. It seems that the non-adjacent relative clause is triggered by a kind of "topic-promotion" of the head noun and appears under the same conditions as other discontinuous modifiers (24.2.1.2). Semantically, it is likely to be non-restrictive. Like the other discontinuous modifiers, the participle within the discontinuous relative clause agrees with the head noun in case. This is the general requirement for discontinuous constituents in Udihe. The syntactic constraint on the discontinuous relative clause is that the head noun must correspond to the subject or the direct object role within the superordinate clause; other grammatical relations do not trigger the non-adjacent relative clause.

\subsection*{19.3.1. Relativized subject}

Example (1409) below illustrates the same-subject sentence with the relative clause non-adjacent to the head noun sagdinta 'old men', but postposed after the finite verb. The participle takes the impersonal form since the subjects of the two clauses are coreferential.
\begin{tabular}{lllll} 
(1409) a. & Sagdinta wac'a & esigi-e-ni & anana \\
& old.man few & become-PAST-3SG & [long.ago \\
& bagdi-e-me-ti & sa-i & getu. \\
& live-PP-ACC-3PL & know-PRP & PL]
\end{tabular}
'There are few old men left who know how the people lived before.'


In (1410) the subjects are not coreferential and the participle bears personal affixes that refer to the subject of the relative clause. The participle and the head nominal agree in case. The case affix shows the syntactic role of the head nominal within the matrix clause.
```

Zakpu-ma b'a-gi-e-ni
eight-ACC get-REP-PAST-3SG
zegde:-me-ti.
[scorch.PAST-ACC-3PL]
'He got eight scorched (animals).' (K 150)
b. Bi nua-ma-ni ise-si-e-mi Jara-du
be he-ACC-3SG see-IM-PAST-1SG [Yar-DAT
bagdi:-we-ni.
live.PP-ACC-3SG]
'I saw him living (when) he was living in Yar.'
c. Bi kuti \tilde{na:-la-ni te:-mi Iwana wa:-ni.}
me tiger skin-LOC-3SG sit-1SG [Ivan kill.PP-3SG]
'I am sitting on the skin of the tiger killed by Ivan.'

```

Some examples are also found where the personal affix on the participle is missing even in the case of a different subject.


\subsection*{19.3.2. Other positions relativized}

Examples of a direct object relativized with the discontinuous strategy are (1412).
(1412) a.

Si kusige-i b'a-gi-e-i
you knife-2SG
find-REP-PAST-2SG
galakta-gi-e:-mi?
[search-REP-PP-SS]
'Did you find the knife you were looking for?'
b. Utemi sono ule:-we-ni e-iti
therefore bear meat-ACC-3SG NEG-3PL
diga xunazi näzakta-i wa-ma-ni.
eat sister [brother-REF kill.PP-ACC-3SG]
'That is why sisters do not eat meat of the bear killed by their brother.'
c. Bi ila tieze-we bu-si-e-mi ni:
me three money-ACC give-IM-PAST-1SG [man
geli:-we-ti.
ask.PRP-ACC-3PL]
'I gave out the three rubles that the people asked for.'
d. Bi kuti-we ise:-mi wakca-i
me tiger see.PAST-1SG [hunt-PRP
getu sienisi-e-me-ni.
PL wound-PP-ACC-3SG]
'I saw the tiger wounded by hunters.'
e. Min-e-we bi ic'a bi-ne:-i
me-0-ACC me small be-IC-1SG
wondo:-mo-ti b'a-gi-e-ti xonto
[throw.PP-ACC-3PL] find-REP-PAST-3PL other
\(n i\) :
man
'The other people found me abandoned when I was small.'
The following examples demonstrate some rare cases of adjunct relativization where the discontinuous strategy is employed.
(1413) a. Xai elile-ni
\(e-s i-n i\)
i:n-e
yet time-3SG
NEG-PAST-3SG come-0
bi kala-gi-zene-i.
me turn-REP-FUT-1SG
'The time has not yet come when I turn again (into a man).'

'They returned to live at their place, next to which they had put the bitch.' (SKX 212)

\subsection*{19.4. Copular relative clauses}

Copular constructions as described in Chapter 17 also form relative clauses which basically follow the general patterns (19.1 and 19.2) for the relativized subject (the subject of the copular construction in this case). Such relative clauses have some kind of intensifying meaning; they stress the idea that the object denoted by the head noun is selected from a set of other similar objects. Both the regular participle of the copula bi:- and the Habitual participle bie are found in such relative clauses. Examples of external relative clauses with the copular construction are:


The internal strategy is more frequent. The participle of the verb 'be' takes the \(3^{\text {rd }}\) person personal suffix referring to the head of the relative. For natural semantic reasons the head noun in this type of clause can be expressed only by a lexical noun, that is, is always in the \(3^{\text {rd }}\) person. As is usual in the internal relative clause, the participle might take the case suffix marking the semantic role of the head in the superordinate clause. Very seldom does the participle \(b i\) : lack a personal inflection in this type (1415b), similar to other postposed modifiers (24.2.1.2.3).
a. \(B i\)
\begin{tabular}{lll} 
ga:gi-e-mi & umac'a-i & xeku \\
pick.up-PAST-1SG & [short-FOC & rope
\end{tabular}
bi:-we-ni.
be.PRP-ACC-3SG]
'I picked up the rope, which is short.'
b. Pakula
dia-si-e-ni
gabzi ni:
Pakula say-IM-PAST-3SG [cheerful man
\(e i \quad b i e-z i\).
NEG be.PRP.HAB-INST]
'Pakula was talking to a man who is not cheerful.'
c.
\begin{tabular}{llll} 
Nic'a & sita & bi:-we-ni & emuge-le \\
[small child & bi.PRP-ACC-3SG] & cradle
\end{tabular}
'They use to tie down the children who were small to the cradle.' (SKX 286)
d. Bua
place
koli-ni
koli-ni teu-ni
law-3SG place surface-DAT-3SG
'The law of the taiga is a law for ALL people in the forest.' (SKX 312)

\subsection*{19.5. Headless relative clauses}

Headless relative clauses either have a specific meaning (19.5.1) or are non-specific generalized clauses (19.5.2).
19.5.1. Specific headless relative clauses

The participles functioning in headless relative clauses are inherently substantivized; however, there is no formal marker of substantivization. The participle itself takes the case suffix indicating the role of the hypothetical head nominal in the superordinate clause. They can refer to inanimate things.
a. Diga-u-zepe

bi-si-me-ni

[eat-PAS-FP] be-PP-ACC-3SG
'He ate what had to be eaten.'
b. \(\tilde{N}\) 'ädiga wakca-i-zi-ni
[Nadiga hunt-PRP-INST-3SG]
'I will perhaps use what Nadiga uses when hunting.' (Schneider 1936: 143)
dian-a-i-we-ti
[blueberry
bi-zene-fi
be-FUT-1PL
olondo-mo-zono-fi.
ginseng-V-FUT-1PL
'We will pick up what is called blueberry, we will collect what is called ginseng.'
d. Zawa-ja Wolodia kopala-i-we-ni. take-IMP.2SG [Volodya dig-PRP-ACC-3SG] 'Take what Volodya is digging up (about potatoes).'
e. Mafasa alu-i-we-ni
[old.man serve-PRP-ACC-3SG]
zawa-mi diga-mi ča:la-ini.
take-INF eat-INF want-3SG
'She took the spoon, ate what had been served by the old man, and agreed.'
f. Ei tege-we ebie uli-se-digi-de
this gown-ACC [earlier sew-PP.PAS-ABL-FOC]
beautiful make-FUT-1SG
'I will make this gown even more beautiful than the one sewn earlier.'
The headless relative clause can refer to a human being without being formally different from the former type, so the exact reading must be understood from the context.
\begin{tabular}{llll} 
(1417) a. & Ja:-la & anči & ede:-me-ni-de \\
& [eye-PART & no & become.PP-ACC-3SG-FOC] \\
& igisi-mi. & & \\
& keep-1SG & \\
& 'I am keeping the one who lost his sight.'
\end{tabular}
\begin{tabular}{llll} 
b. & Bagdi: & getu & kese-lege-ti \\
[live.PRP & PL] & suffer-PURP-3PL & sulikta \\
bede & o:-zo. & & \\
& & \\
like & become-SUBJ &
\end{tabular}
'Let it become like intestines so that people (living ones) suffer.'
(K 108)
c. Bie
[be.PRP.HA toktogi-e-mi. cut.down-PAST-1SG
'I have cut down the shaman pole of the living (people).' (K 184)
The same structure is employed for headless relative clauses that refer to a place. In this grammar they are addressed in the chapter on adverbial clauses, see 21.2.

The same-subject clause is expressed with the impersonal forms of the participles. Plurality is regularly marked with the collective word getu, cf.:
(1418) a.
\(B u\) dian-a:-mu udie kei-we-ni
we speak-PAST-1PL [Udihe language-ACC-3SG
egze-i getu-we.
understand-PRP PL-ACC]
'We were speaking to those who understood Udihe.'
b. Bi ise:-mi
me see.PAST-1SG
min-tigi tukä-i
getu-we.
PL-ACC]
'I saw (people) running to me.'
\(\begin{array}{lllll}\text { c. } & \text { Aja } & \text { wakca-mi } & \text { noni: } & \text { getu } \\ \text { [good } & \text { hunt-INF } & \text { can.PRP } & \text { PL] } & \text { son-zi } \\ \text { bear-INST }\end{array}\)
Examples of the headless relative with Necessitative Participles (1419) and with passive participles (1420) are presented below.
\begin{tabular}{rlll} 
(1419) a. & \begin{tabular}{ll} 
Bi nixe-u-zene-i & egdi. \\
& me [do-PAS-FP-1SG] many.
\end{tabular} & \\
& 'I have a lot to do.' & \\
b. & Nua- \(n i\) etete-u-zene-ni & wac'a. \\
& he-3SG [work-PAS-FP-3SG] & little \\
& & \\
& 'He has to do a little work.' &
\end{tabular}
(1420) Anana long.ago 'The past is forgotten.'
bi-se-we onmo-so.
[be-PP.PAS-ACC] forget-PP.PAS

\subsection*{19.5.2. Generalized headless relative clauses}

The generalized relative clause may involve different formal types of predicate. On the finite generalized relative clause see 18.3.2.1. Participial non-finite generalized relative clauses are quite rare; one example is presented below.
\begin{tabular}{lll} 
Ono bi:-we-de & \(e-z i\) & galu. \\
[how be.PRP-ACC-FOC] & NEG-IMP.2SG & hate
\end{tabular}
'Don't hate her, whatever she is.' ( K 166 )
In (1422) we present examples of a non-finite generalized relative clause based on the Infinitive, in (1423a) one based on the Perfective converb, in (1423b) one based on the Past Participle, and in (1424) ones based on the Conditional Converb. As demonstrated by (1422a) the superordinate clause in this case can have a semantically redundant correlative word, in this case a universal quantifier teu 'all, everything'.
\begin{tabular}{llll} 
) a. & Nua-ni & j'e-we-de & nixe-mi \\
[he-3SG & what-ACC-FOC & do-INF] \\
teu & ge:-zi & m'ei & nixe-ini. \\
everything & bad-INST & only & do-3SG
\end{tabular}
'Whatever he was doing, he was only doing it badly.'
b. Ni-de
bi-mi
be-INF]
'Whoever you are, come in.'
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{4}{*}{} & Ni -de & \[
e m e-i s i-n i
\] & \(b i\) & mamasa-i \\
\hline & [who-IND agda-ini. & come-PC-3SG] & me & \\
\hline & agda-ini. & & & \\
\hline & \multicolumn{4}{|l|}{'Whoever comes, my wife is glad.'} \\
\hline \multirow[t]{3}{*}{b.} & I:-le & jene:-me-ni & si & d'ofo-ni-de. \\
\hline & what-LOC & go.PP-ACC-3SG & you & like-3SG-FOC \\
\hline & 'Wherever & goes, it is like & & \\
\hline
\end{tabular}
(1424) a.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Sipe} & \multicolumn{2}{|l|}{j'e-le-de} & bi-li & saya-wa \\
\hline & & OC-IND & be-CC.SS] & hole-ACC \\
\hline \multicolumn{5}{|l|}{\(o\) o-iti.} \\
\hline \multicolumn{5}{|l|}{make-3PL} \\
\hline \multicolumn{5}{|l|}{'Wherever they are, rats make holes.' (SK 353)} \\
\hline Ono-do & ineni & bi-lisi-ni & & \\
\hline [how-IND & cold & be-CC-3 & NEG-IM & \\
\hline
\end{tabular} 'However cold it may be, do not get up.'
19.5.3. Indefinite headless relative clauses

Headless relative clauses are used when the reference of a potential head is indefinite, in the sense 'unknown to the speaker.' Its plurality may be rendered by the \(3^{\text {rd }}\) person Plural subject agreement marker on the participle, as in (1425b).
\begin{tabular}{llll} 
Eje-ne-mi & eje-ne-mi & ise:-ti & uli \\
float-DIS-INF & float-DIS-INF & see.PAST-3PL & [water \\
kä:-la-ni & p'a-sa & bi:-we-ni. \\
side-LOC-2SG & black-ADJ & be.PRP-ACC-3SG] & \\
'When they were floating down they saw something black on the \\
riverbank.' (SKX 112)
\end{tabular}
b. nene-mi nene-mi
go-INF go-INF river.strech end-DAT-3SG
belie-ziga
fairy-PL
bieuge
shining smooth shine-PRP-ACC-3PL]
'The fairies went further and on the stretch of the river they saw something shining and smooth on top of the hill.' (SKX 146)

\subsection*{19.6. Depictives}

Copredicative adjectives and participles (depictives) modify a subject and a particular class of objects but cannot be associated with other grammatical relations. They may be of several types. Copredicative participles take the Nominative case, while copredicative adjectives mostly take the Instrumental (sometimes also the Nominative). As some of examples below illustrate, the depictive element does not need to be adjacent to the noun phrase that controls it.

On copredicative postpositional constructions see section 10.2.2.2.3
19.6.1. Relative clauses as depictives

A passive or resultative relative clause that functions as a depictive is usually postnominal. A participial depictive can only be controlled by the subject.

A depictive with a resultative meaning describes the state which results from the previous action in which the participant that corresponds to the modified noun played a role of patient. Such a resultative may be expressed by the Past passive participle or the Resultative Participle. Example (1426a) illustrates the passive participle in the Nominative in such a function. For the Resultative Participle the Instrumental case is optional (1426b).
```

(1426) a. Ñ'aula teu butusige-se eme-gi-e-ni.
boy [all soil-PP.PAS] come-REP-PAST-3SG
'The boy came home all soiled.'

```


\subsection*{19.6.2. Adjectival depictives}

\subsection*{19.6.2.1. Subject depictives}

The following verbs normally allow a copredicative adjective (the list is not exhaustive): verbs of movement (xuli- 'walk', yene- 'go, leave', etc.), decausative perception verbs (ise-pte- 'be seen', düi-pte- 'be heard'), and some intransitive verbs (bagdi-gi- 'be born', bagdi- 'live', te:- 'sit'). The copredicative Adjective is always postposed with respect to the nominal it modifies, and does not have to be immediately adjacent to it. It necessarily takes the Instrumental case, while the modified nominal (the subject) is obviously in the Nominative.
\begin{tabular}{|c|c|c|c|}
\hline (1427) a & Mo: tree & nemnec'e-zi thin-INST & ise-pte-ini. see-DEC-3SG \\
\hline & 'The trees lo & ook thin.' & \\
\hline b. & Uti n'aula this child & ami-mi father-REF & bubei-zi similar-INST \\
\hline & bagdi-gi-e-ni & & \\
\hline & live-REP-PA & AST-3SG & \\
\hline & 'This child & was born lookin & g like his father.' \\
\hline c. & Nua-ni he-3SG & sebzenke-zi cheerful-INST & neni-ge. go-PERF \\
\hline & 'He left che & erful.' & \\
\hline
\end{tabular}

Below we illustrate the Nominative adjectival depictive, which is a fairly rare case.
```

(1428) a. Eku te:-mi.
quiet sit.PAST-1SG
'I was sitting quiet.'
b. Si elu ni:-ne-h-i.
you adult man-V-PAST-2SG
'You became adult.' (K 314)
c. Su: xutag'ai ise-pte:-ni.
sun crimson see-DEC.PAST-3SG
'The sun seemed crimson.' (SK 391)

```

\subsection*{19.6.2.2. Object depictives}

Certain direct objects also allow copredicative determiners. These are mostly objects of creation verbs such as wo:- 'make' and uli- 'sew' (1429), verbs of appearance and change of possession like bu:- 'give' (1430) and a few other verbs which have a resultative component in their meaning (1431). As in the case of subject depictives, the depictive adjective which modifies the object of creation is postnominal and takes the Instrumental case.


Note that objects of most transitive verbs, that is, those that cannot be characterized as verbs of appearance and creation, do not control depictives. Thus, in (1432a) secondary predication is expressed with the regular relative clause, while a depictive structure would be impossible (1432b).
```

(1432)a. Bi ise:-mi
me see.PAST-1SG
'I saw him beaten.'
b. *Bi ise:-mi
me see.PAST-1SG
'I saw him beaten.'

```
nua-ma-ni konko:-mo-ti. he-ACC-3SG beat.PP-ACC-3PL
nua-ma-ni konko-ktu-zi he-ACC-3SG beat-RES-INST

The direct object modified by a depictive may be deleted under coreference with a previously mentioned element. In all other respects the construction is the same as with the overtly present object.

'Let us dig earth in the comer of the house, dig it more (literally: large).'
b. Xangus'a-zi ule;-ti. shallow-INSTR dig-PAST-3SG
'(They) have dug a shallow hole.'
An example of the Nominative adjectival object depictive is presented below.
(1434) ñoligi butu-o:-ni aka-wa-ni.
black paint-PAST-3SG
back-ACC-3SG
'He painted his back black.' (SKX 216)

\subsection*{19.6.2.3. Number agreement}

The subject (1435) and the object (1436) control number agreement on the depictive adjective. There is never a Plural marker on the noun itself.
Nua-ti zo:ŋku-ŋku-zi
bagdi--ti.
he-3PL poor-PL-INST
live-3PL
'They live poorly.'
\begin{tabular}{lll} 
b. & Ei mo: & gugda-yku-zi \\
this tree & tall-PL-INST & i:wo:-ti. \\
'These trees grew tall'. & grow.PAST-3PL
\end{tabular}
c. Sagdä-ŋku ju-o:-ti.
big-PL grow-PAST-3PL
'They grew big.' (K 170)
(1436) a
a. Zueze-we
table-ACC
\(a j a-\eta k u-z i\) nice-PL-INST
'They made tables nicely.'
wo:-ti.
make.PAST-3PL
b. yic'a-ŋku-zi xua-ini.
small-PL-INST cut-3SG
'He cuts it into small (pieces) (literally: he cut them small).'
c. Kusige-we etei-ŋku-zi sharp-PL-INST
ziu-gi-se. sharpen-REP-PP.PAS
'The knives are sharpened sharp.'
d. Kakčima-wa jic'a- \(\boldsymbol{-} k u\)-zi montolie bombolie
flat.cake-ACC small-PL-INST round round kakčima-yisi:.
flat.cake-V.PRP
'They make flat cakes small and very round.' (SK 541)
This property formally differentiates depictives from qualificative adverbs derived from adjectives with the Instrumental suffix -zi (10.1.3.1.1). The latter never take Plural agreement.

\title{
Chapter 20 \\ Complement subordinate clause
}

This chapter deals only with non-finite complement clauses. Finite complement clauses, and, in particular, direct and indirect speech constructions, are addressed in Chapter 18. On subordinate questions see section 23.1.4.

The complement subordinate clause in Udihe is a sentential argument with the syntactic role of the subject (20.1) or the direct object (20.2). The predicate of the non-finite complement clause is expressed by the Infinitive (7.6.3), a participle (7.6.1) or, less frequently, by the Purposive Converb (7.6.2.1). The particular strategy of forming the complement clause is mostly determined by the matrix verb, therefore the verbs that require each particular type of complement subordinate clause are given here in a representative list. The chapter is organized according to the formal types of the complement subordinate clauses which basically correspond to the valence patterns of the matrix verbs.

As in the other subordinate clauses (Chapters 19 and 21), the subject of the complement subordinate clause may or may not be coreferential with the superordinate clause subject. In the former case the subordinate clause predicate is marked by same-subject switch-reference affixes, in the latter case by different-subject affixes. The coreferential subject is often anaphorically dropped, either from the superordinate clause or from the subordinate clause. Some types of complement subordinate clauses allow only either same-subject or different-subject. These are discussed in more detail.

In the sentence, the subject complement clause (sentential subject) occupies the linear position usually associated with the subject (see 24.1.2). The object complement subordinate clause normally immediately precedes its head, the matrix verb, but it can also be separated from the matrix verb by VP adverbs or other elements. The postposing of the complement clause in the postverbal position is allowed. The complement clause itself is head-final, although younger speakers occasionally allow non-verb-final complement clauses, apparently under the influence of the Russian word order (1.5.2.2.2). The subject, if overtly present within a complement clause, tends to occupy the leftmost position.

\subsection*{20.1. Sentential subject}

\subsection*{20.1.1. Infinitival sentential subject}

The infinitival sentential subject is possible with one- or two-place predicates of state that normally participate in copula constructions in the superordinate clause (17.2.3.1). The copula predicates that take sentential subject complements are the following:
\begin{tabular}{clll} 
(1437) ge: & 'bad' & aja & 'good' \\
sebzenke & 'interesting' & xei & 'tasty' \\
manga & 'difficult' & tuge & 'quick' \\
eke & 'slow' & go: & 'long' \\
gugda & 'high' & zas'a & 'easy' \\
seuni: & 'dangerous, scary' & so:ndo & 'sin' \\
jaza & 'OK' & sei & 'chilly' \\
safani & 'tiring, boring' & egdi & 'a lot' \\
kiab'au & 'tight' (SK 1013) & namai & 'warm' \\
ba: anci & no place' & & \\
linga-linga bie & 'sticky' & & \\
tembu-tembu bie & 'springy' & &
\end{tabular}

The modal predicates that belong to this group are actually Past passive participles or Necessitative passive participles of the verbs metu- 'finish, accomplish' and mute- 'possible' in the affirmative and the negative form:
(1438) a. metu-se
e-u-se metu
b. mute-u-zeŋe
e-u-zeŋe mute
```

'finished'
'unfinished
'possible'
'forbidden, not possible'

```

Normally these predicates take the experiencer argument expressed by the Dative noun phrase (17.2.3.1). The second argument (if present) may correspond to the subordinate clause controlled by the Dative experiencer of the superordinate clause (20.1.1.3). When the predicates listed in (1437) govern the complement subordinate clause whose subject is not coreferential with the Dative experiencer, the subordinate clause is finite. This case is treated in 18.3.1.5. Finally, the impersonal non-controlled infinitival subordinate clause may function as the only argument (20.1.1.1).

\subsection*{20.1.1.1. Impersonal clauses}

The impersonal sentential subjects are semantically close to finite agentless clauses (16.2.5). However, as distinct from finite agentless constructions, it seems that sentential subject clauses are mostly of generic character, and cannot be interpreted as indefinite (in the sense of "not known to the speaker"). Both the simple Infinitive (1439) and the Impersonal Infinitive (1440) occur in this type, but the latter is more typical of the Northern dialect.


Furthermore, it appears that the matrix predicate (an adjective) can express the number of an object participant of the subordinate clause. We have only one example at our disposal: in (1441) the adjectival Plural marker \(-\eta k u\) indicates the plurality of the subordinate clause object mo:-wo 'trees'. The subordinate clause is shown in brackets.


\subsection*{20.1.1.2. Personal clauses}

Occasionally, the infinitival construction may be used in a personal sense. The subject is not specified but refers to particular people, cf.:
(1442) a. Gusi-mi seuni: ede:-ni. [play-INF] dangerous become.PAST-3SG 'The game became dangerous.'
b. Zile xegie-le-ni digene-mu aja bi-ze. [anvil under-LOC-3SG hide-IMI] nice be-SUBJ 'It would be nice to hide under the anvil.' (K 157)

The Infinitival clause governed by the matrix predicate aja 'nice' has a personal meaning when the subject is either overtly present (1443) or deleted under coreference (1444). Since the Infinitive does not take agreement markers, the subject agreement is suppressed. Such a subordinate clause expresses a wish or indirect exhortation.
a.
\begin{tabular}{lll} 
Abuga-i & eme-gi-mi-de & aja. \\
[father-1SG & come-REP-INF-FOC] & nice
\end{tabular}
'It would be nice if my father came.'
b. Si xeli bude-mi-de aja.
[you soon die-INF-FOC] nice
'I wish you would die soon!'
\begin{tabular}{llll} 
c. & \begin{tabular}{ll} 
Si & tenku- \(i\) \\
lyou & chair-2SG
\end{tabular} & camna:-ma-ni \\
[youk.PP-ACC-3SG
\end{tabular}
'It would be nice if you repaired the broken chair.'
(1444) a. Ni:-we
alasi-mi-de aja.
[man-ACC wait-INF-FOC] nice
'It would be nice to wait for this man.' (K 144)
\begin{tabular}{lll} 
b. & \begin{tabular}{ll} 
Ei-mi & nodo-de \\
{\([\) NEG-INF } & lose-INF]
\end{tabular} & \begin{tabular}{l} 
aja. \\
nice.
\end{tabular}
\end{tabular}
'I wish he wouldn't lose (it).'
c. W'ali-m(i) aja.
[fight-INF] nice
'It would be nice to fight (meaning: let us fight).' (K 177).

\subsection*{20.1.1.3. Dative control}

The predicates of state listed in 20.1 take the experiencer Dative argument (see also 17.2.3.1) that controls the subordinate clause. The subordinate clause subject must be coreferentially omitted. This is shown with the symbol \(\varnothing\) in the glosses.
(1445) a
\begin{tabular}{lcll}
\(O-d u\) & xuli-mi & sin-du & aja. \\
{\([\varnothing\) this-DAT } & walk-INF] \(]\) & you-DAT & good \\
'It is nice for you to walk here.' & &
\end{tabular}


In this type the predicates mute-u-zene 'possible', e-u-zene mute 'be forbidden, not possible', metu-se 'finished', e-u-se metu 'unfinished' do not occur since their meaning is impersonal. The equivalent personal meaning is rendered by means of finite constructions in one of the non-indicative moods.

A sentential subject of this type is often expressed by the Infinitive with the Durative derivational suffix (8.2.2.4), see also 20.2.1.
```

(1446)a. Min-du ketu ma\etaga sun-du bagdi-kce-mi.
me-DAT very strong [you-DAT live-DUR-INF]
'It is very difficult for me to stay with you.'
b. Min-du safani: etete-kce-mi.
me-DAT boring [work-DUR-INF]
'I got bored working.'

```

This construction sometimes allows a Nominative subject as well, in the same way as the variation Nominative/Dative is acceptable in the Desiderative copular construction (17.2.3.2).
\begin{tabular}{clcl} 
(1447) Bi-le & j'e-le-de & mafa-la-mi & aja. \\
me-FOC & what-LOC-IND & man-V-INF & good
\end{tabular}
'It is good for me to marry somebody.' (SKX 188)

\subsection*{20.1.2. Participial sentential subject}

This is an infrequent type. Unlike the previous two varieties of sentential subjects, the participial sentential subject does not occur with the predicates of state listed in 20.1, but is a complement to the decausative perception verbs such as düi-pte 'is heard' and ise-pte 'is seen' or the decausative verb sau-pte'be known' (see also in section 16.1.4.2).

\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{b.} & Nua-ni [he-3SG & \begin{tabular}{l}
jexe-i-ni \\
sing-PRP-3
\end{tabular} & go:-lo & duï-pte. \\
\hline & \multicolumn{4}{|l|}{'His singing is heard far away.'} \\
\hline \multirow[t]{2}{*}{c.} & Ni : & xuli:-ni & sa-u-pte- &  \\
\hline & 'It is kno & ] & & \\
\hline
\end{tabular}

It seems that it is possible to introduce participial sentential subjects by means of some copular predicates. However, we may simply deal here with two coordinated clauses.


\subsection*{20.2. Sentential object}

The sentential complements follow several distinct morpho-syntactic strategies determined by the individual matrix predicate.

\subsection*{20.2.1. Infinitival sentential object}

The infinitival complement clause is always of the same-subject type. Some of the matrix verbs that govern the infinitival complement clause exhibit a semantic similarity with the typical auxiliary verbs in other languages, while other verbs correspond semantically to typical subject-control verbs. In fact, it is not at all clear whether such constructions in Udihe should be treated as biclausal or monoclausal ("clause-union" type). Normally, the Infinitive precedes the matrix verb and the subject of the two verbs appears only once on the surface, preceding the Infinitive.

The following verbs take an infinitival subject-controlled complement clause: aspectual (phase) verbs (1450a), some modal predicates (1450b), emotional and evaluative predicates (1450c), and cognitive verbs (1450d). The complement clause has the factive meaning.
\begin{tabular}{|c|c|c|}
\hline (1450) a. & zafanda- & 'begin' \\
\hline & metu- & 'finish \\
\hline & wadi- & 'finish' \\
\hline b. & ñoni- & 'can' \\
\hline & mute- & 'be able, can' \\
\hline & ča:la- & 'want' \\
\hline & nixe- & 'have to' \\
\hline & dakca- & 'be going' \\
\hline & kokpi- & 'have enough time, manage' \\
\hline & ekele anči bi- & 'have no time' \\
\hline c. & gända- & 'be lazy' \\
\hline & juyde- & 'like, be fond of' \\
\hline & kese- & 'suffer' \\
\hline & safani: b'a- & 'get bored' \\
\hline & juede- & 'be enthusiastic' \\
\hline & muñali- & 'be sorry to' \\
\hline & elu- & 'be bored' \\
\hline & jemei b'a- & 'get disgusted' \\
\hline & jele- & 'be afraid' \\
\hline & azana- & 'be embarrassed' \\
\hline & xakza- & 'be embarrassed' \\
\hline d. & tati- & 'get accustomed' \\
\hline & s'aina- & 'get accustomed' \\
\hline
\end{tabular}
\begin{tabular}{ll} 
egze- & 'be expert at' \\
tatusi- & 'learn'
\end{tabular}

\section*{Examples:}
\begin{tabular}{llll} 
(1451) a. & Iwana wadi-e-ni & jexe-mi. \\
& Ivan \(\quad\) stop-PAST-3SG & [sing-INF] \\
& 'Ivan stopped singing.' &
\end{tabular}
b. \(\left.\begin{array}{lll}\text { Nua-ni } & \text { noni:-ni } \\ \text { he-3SG } & \text { uli-mi. } \\ \text { can-3SG } & \text { [sew-INF] }\end{array}\right]\)
'She can sew.'
c. Bi odu te:-mi safani: b'a-mi.
me [here sit-INF] boring get.PAST-1SG
'I am bored sitting here.'
d. Uti
ni:-tigi
ise-si-mi jemei b'a-ini.
[this man-LAT see-IM-INF] disgust get-3SG
'He is disgusted to look at this man.'
e. \(B i\) sita- \(i\)
ba:-za
me son-1SG [place-N
ge-tigi-ni
surface-LAT-3SG
xuli-mi aja
egze-ini.
walk-INF] good be. expert-3SG
' My son is an expert at orienting in the forest.'
The verbs azana- 'be embarrassed', xagza- 'be embarrassed, kese- 'suffer', as well as the modal verbs mute- 'be able', elu- 'ne bored', muñali- 'be sorry to', and kokpi- 'have enough time, manage' often introduce an imperfective durative situation and co-occur with the Infinitive augmented by the Durative suffix - \(k c A\) (8.2.2.4), cf. also 20.1.1.3.
a.
\begin{tabular}{lll}
\(S i\) emus'e & bagdi-kce-mi & kese-i. \\
you [alone & live-DUR-INF] & suffer-2SG
\end{tabular}
'You are suffering from living on your own.'
\(\begin{array}{lll}\text { b. } & \text { Gagi-kce-mi-de } & e \text { esi-de } \\ \text { [take-DUR-INF-FOC] } & \text { NEG-PAST-FOC } & \text { kokpi-gi. } \\ \text { manage-REP }\end{array}\)
'(She) did not manage to take (it) away.'
c. Tukä-kca-mi ei-ni mute.
[run-DUR-INF] NEG-3SG can
'He can't run.'
d. Ag'a muñali-e-ni mun-du
brother sorry-PAST-3SG [we-DAT
ule:-we
meat-ACC
bu-kce-mi.
give-DUR-INF]
'The brother felt sorry for giving us some meat.'

\subsection*{20.2.2. Participial sentential object}

In the participial complement clause the subordinate predicate is an active participle in one of the tensed forms. The participle takes the Accusative case and the personal inflection referring to the subject of the subordinate clause (different-subject). In same-subject sentences the participle is not inflected for case (is in the Nominative). This has a formal parallel in the construction with the reflexive object: the Accusative of the reflexive element is formally homonymous to the Nominative, see 22.3.2. The following types of participial sentential object are distinguished: object-controlled clause (20.2.2.1), non-controlled clause (20.2.2.2), and arbitrary controlled clause (20.2.2.3).

\subsection*{20.2.2.1. Object control}

The subordinate clause subject may be controlled either by the direct object (20.2.2.1.1) or by the indirect object (20.2.2.1.2) of the matrix clause. A necessary prerequisite for omitting one of the coreferential arguments (either a subordinate clause subject or a matrix clause object) is the overt presence of its antecedent in the linearly preceding clause. Note that the referential null in the subordinate subject position can control reflexivization (22.32.3.2).

\subsection*{20.2.2.1.1. Direct object control}

Object-control matrix verbs take the complement clause in which the subject is controlled by the Accusative object of the matrix clause. The subject may be overtly present in the subordinate clause in the Nominative form, but can also be omitted under coreference. In both cases the personal different-subject inflection of the participle refers to the subject of the subordinate clause. The following verbs take the object-controlled complement clause:
(1453)alasi- 'wait'
xaja- 'disturb'
\[
\begin{array}{ll}
\text { belesi- } & \text { 'help' } \\
\text { dayuli- } & \text { 'disturb' }
\end{array}
\]

In the sentence the object-controlled complement clause is not normally adjacent to the object of the superordinate clause, but follows the matrix verb, cf.:
\begin{tabular}{llll} 
(1454)a. & Ei b'ata & abuga- \(i\) & belesi-e-ni \\
this boy & father-REF & help-PAST-3SG
\end{tabular}


Typically the object must be overtly present within the matrix clause. However, when the subordinate clause precedes the matrix clause and contains the overt subject, the object can be anaphorically omitted, cf.: (1455a) and (1455b).


\subsection*{20.2.2.1.2 Indirect object control}

The verb ka:ni:- 'forbid' takes a complement clause controlled by the Lative indirect object, as in (1456b). In (1456a) it is omitted under coreference with the previously introduced subordinate clause subject.
\begin{tabular}{ll} 
a. & Wrač-u \(\quad\) Iwana \\
doctore- \(i\)-we-ni \\
doctor & [Ivan sing-PRP-ACC-3SG] \\
'The doctor forbids Ivan to sing.'
\end{tabular}
ka:ni:-ni.
forbid-3SG
b. Abuga-i
father-1SG
xuli:-we-i
[walk.PRP-ACC-2SG
'The father forbids you to go to the forest.'

\subsection*{20.2.2.2. Non-controlled participial clauses}

Due to their semantics, some matrix verbs require the complement participial clause in which only a different subject is allowed and the subject of the subordinate clause is not controlled by any argument within the superordinate clause. The subordinate clause subject in this case must be overtly expressed within the subordinate clause as a Nominative noun phrase. As in all participial
subordinate clauses, the participial inflects for the Accusative case and obviously takes only different-subject personal inflections.

The following verbs belong to this type:
(1457) zakta-nitine- 'gossip'

Sentence examples:

20.2.2.3. Participial clauses with arbitrary control

This frequent type is formally similar to the previous one, however the subject of the complement clause can be controlled by the subject of the superordinate clause (same-subject situation) or by any other element within the superordinate clause or outside it (different-subject situation). In the former case, the subject is not overtly present in the complement clause itself. In the latter case it is optional. The participle takes the Accusative in different-subject sentences; in same-subject sentences, the Accusative marking on the participle is missing (see 22.5.1.2). On the Instrumental participial clause see 20.2.2.3.5.

As demonstrated below, with matrix verbs of saying and perception the complement clause tends to be located post-verbally although the preverbal position is also common.

\subsection*{20.2.2.3.1. Verbs of arbitrary control}

Matrix verbs that belong to this group are cognitive verbs, verbs of saying, perception and evaluation, mostly with a factive but sometimes also with a non-factive meaning:
(1459) t'osi-
zoni-
xono-
\begin{tabular}{ll} 
'dream' & sa:- \\
'remember' & agda- \\
'be surprised' & oymo-
\end{tabular}

\author{
'know' \\ 'be glad' \\ 'forget'
}
\begin{tabular}{llll} 
telunusi- & 'tell & \begin{tabular}{l} 
sono- \\
düsi-
\end{tabular} & 'cry about' \\
ise- & 'see' & 'hear' \\
iñe- & 'laugh' & sebune- & 'be interested' \\
mede- & 'feel' & xaundasi- & 'ask' \\
egze- & 'realise' & dogdi- & 'hear' \\
b'a- & 'find, see' & dian- & 'tell about, speak \\
& & & about'
\end{tabular}

\subsection*{20.2.2.3.2. Different-subject sentences}

Examples of different-subject sentences are:
\begin{tabular}{lll} 
Bu teluru-si-e-mu & wakca- \(i\) & ni:-tigi \\
we story-V-PAST-1PL.IN & hunt-PRP & man-LAT
\end{tabular}
nua-ti zugdi-we wo:-mo-ti.
[he-3PL house-ACC make.PP-ACC-3PL]
'We told the hunter that they have built the house.'
b. Bi xono:-mi
me get.surprised-1SG
eme-gi-e-me-ti.
come-REP-PP-ACC-3PL]
'I was surprised that they returned.'
c. Bi mede-mi abuga- \(i\)
me feel-1SG [father-1SG
eme-gi-e-me-ni.
come-REP-PP-ACC-3SG]
'I feel that the father has come.'
d. Bi ise:-mi si
me see.PAST-1SG [you 'I saw that you were working.'
e. Zu: ni: ⿹ene-i-we-ni
[two man go-PRP-ACC-3SG]
'He saw two men walking.'
nua-ti
[he-3PL

\subsection*{20.2.2.3.3. Same-subject sentences}

In same-subject sentences the subordinate participle takes no case inflection, cf.:
\begin{tabular}{llll} 
(1461)a. & \begin{tabular}{ll} 
Nua-ni \(\quad\) teluqu-si-e-ni & min-tigi \\
he-3SG story-V-PAST-3SG & me-LAT
\end{tabular} \\
& Moskva-tigi & xuli-e-mi. & \\
& {\([\) Moscow-LAT } & go-PP-SS] &
\end{tabular}
'He told me that he had travelled to Moscow.'
b. Jexe-ze-mi men-e bagdi-e-mi.
sing-SUBJ-1SG [REF-0 live-PP-SS]
'Let me sing about my own life.'

'He forgot to go home.'

\subsection*{20.2.2.3.4. Impersonal clauses}

The impersonal interpretation of the subordinate clause is licensed by the impersonal form of the participle. The subject of the subordinate clause is naturally absent.
(1462) Wakca-i-we [hunt-PRP-ACC]
'He speaks about hunting.'

\subsection*{20.2.2.3.5. Participial Instrumental clauses}

The verb yele- 'be afraid' takes a participial complement clause in which the participle has the Instrumental case (and not the Accusative as in most other complement clauses). Only the Future Participle occurs in this clause, both in the different-subject (1463a) and same-subject (1463a) form.
(1463) a. Bi nele-mi nua-ni unugu-le-zeŋe-zi-ni.
me be.afraid-1SG [he-3SG illness-V-FP-INST-3SG]
'I am afraid he will get sick.'
b. Nua-ni yele-ini
he-3SG be.afraid-3SG
tiyme-le-zene-zi:.
fall-SING-FP-INST.SS]
'He is afraid to fall from the chair.'

The verb pele-can also take the infinitival complement (20.2.1), in which case the complement clause is always subject-controlled.
20.2.2.3.6. "Double-object" constructions with the complement clause

The following verbs allow a second direct object in addition to the object complement clause:
(1464) ceze-
(w)uisi--
sa:-
dian-
sa-wan-
dogdi-
'believe somebody about something'
'rescue somebody from something'
'know something about somebody'
'say something to somebody'
'inform somebody about something'
'listen to somebody saying something'

As demonstrated by the following examples, the non-sentential direct object does not have to be coreferential with any elements of the subordinate clause:

'All people will listen to what their old man is saying.' (SKX 310)
20.2.2.4. Copular complement clauses

There are two formal types of the complement participial clause with the adjectival copular predicate (such as those addressed in 17.2.2.1.1). First, the copula can be overtly present as the subordinate participial predicate which, according to the general rule, takes the Accusative case and the personal inflection that refers to the subordinate clause subject.
```

(1466) a. Bi sa:-mi bäsa eqme
me know-1SG [channel wide
bi:-we-ni.
be.PRP-ACC-3SG]
'I know that the channel is wide.'
b. Bi ise:-mi uti
me see.PAST-1SG [that man
mul-mul $l^{\prime} \quad$ bi-we-ni.
teethless-teethless be.PRP-ACC-3SG]
'I saw that this man is toothless.'
c. Bi sa:-mi nua-ti elu ni:
me know-1SG [he-3SG honest man
bi:-we-ti.
be.PRP-ACC-3PL]
'I know that they are honest people.'
d. Bi sa:-mi uti pag'a bi:-we-ni.
me know-1SG [that stupid be.PRP-ACC-3SG]
'I know that he is stupid.'

```

In the second case the copula is omitted and the Accusative and personal inflections attach to the adjective itself.
```

(1467)a
Bi ise:-mi
me see.PAST-1SG
bäsa eyme-we-ni.
[channel wide-ACC-3SG]
'I saw that the channel is wide.'
b. Bi sa:-mi uti pag'a-wa-ni.
me know-1SG [that stupid-ACC-3SG]
'I know that he is stupid.'
c. Bi abuga-i sa:-ini bi kui
me father-1SG know-3SG [me very
manga-wa-i.
strong-ACC-1SG]
'My father knows that I am very strong.'
d. Nua-ni iñi:-ni bi xanxi-we-i.
he-3SG laugh-3SG [me foolish-ACC-1SG]
'He is laughing over that I am foolish.'

```

There is no apparent semantic difference between the two types of the copular adjectival subordinate clauses.

\subsection*{20.2.2.5. Complement clauses and relative clauses}

Complement clauses of arbitrary control exhibit remarkable formal parallelism with internal relative clauses, that is, relative clauses where the predicate follows the relativized noun (19.2). Ambiguity may arise if the head noun corresponds to the object of the superordinate clause verb and this verb may also take a complement clause. Thus,

\section*{(1468)Bi guaizime yua-i-we-ni me [bear}

\section*{b'a-mi. find.PAST-1SG}
means both 'I saw a sleeping bear' and 'I saw that the bear was sleeping'.
In this situation the correct reading can sometimes be deduced from the subject determiner within the subordinate clause and the character of the subject itself. Usually the subject of the relative clause is indefinite and the subject of the complement clause is definite. For example, in (1469) the subject is modified by the anaphoric pronoun uti 'this' (1469a), or is a personal pronoun (1469b) and personal pronouns are unlikely to relativize. These examples only allow a complement reading.
```

(1469) a. Bi ise:-mi uti ni:
me see.PAST-1SG [this man
mul'-mul ${ }^{\prime} \quad$ bi:-we-ni.
toothless-toothless be.PRP-ACC-3SG]
'I saw that this man is toothless.'
*'I saw that man who is toothless.'
b. Bi sa:-mi si c'o aja wakca-i
me know-1SG [you very good hunt-PRP
$n i: \quad b i:-w e-i$.
man be.PRP-ACC-2SG]
'I know that you are a good hunter.'
*'I know you who are a good hunter.'

```

In (1470) the subject of the subordinate clause is indefinite and the preferred reading is with the relative clause although a complement clause reading is also possible.
(1470) Bi omo
me one
mul'-mul
[toothless-toothless
'I saw one man who was without teeth.'
'I saw that one man was without teeth.'
Example (1471) lacks any formal indicators of the definiteness/indefiniteness of the noun bäsa 'channel' and is totally ambiguous between the "complement" and the "relative" reading.
(1471) \(B i \quad s a:-m i \quad\) bäsa eqme bi:-we-ni.
me know-1SG [channel wide be.PRP-ACC-3SG]
'I know that the channel is wide.'
'I know a channel which is wide.'
Note also that if the subject in the relative clause is not relativized it is always clause-initial, and the participle immediately follows the head noun (19.2.3). However, the subject of the complement clause does not have to be clause-initial. Consequently, (1472) is an example of the complement clause and cannot be understood as a relative clause because the subordinate subject (mafa 'bear') is preceded by another element internal to the embedded clause (the object kalima-wa 'whale').
(1472) Uti ni:
this man
\begin{tabular}{lll} 
kalima-wa & mafa & diga-i-we-ni \\
[whale-ACC & bear & eat-PRP-ACC-3SG]
\end{tabular}
b'a-ni.
found.PAST-3SG
'This man saw that the bears were eating the whale.' ( K 176)
*'This man saw the bears that were eating the whale.'

\subsection*{20.2.2.6. Evidential complement clause}

According to the materials of Simonov, Kjalundzjuga and Xasanova (1998), in the Northern dialect the evidential particle gune may introduce a complement clause formed with the participle in the Accusative. The meaning of this construction is the same as the meaning of the finite clauses containing gune (see 12.1.2.1). It is exemplified below.
\begin{tabular}{lllll} 
(1473) a. & \begin{tabular}{l} 
Malta \\
back
\end{tabular} & \begin{tabular}{l} 
ani-la-ni \\
side-LOC-3SG
\end{tabular} & \begin{tabular}{l} 
pogo \\
body
\end{tabular} & \begin{tabular}{l} 
bun-me-ti \\
cover-PP-3PL
\end{tabular}
\end{tabular}
gune.
EV
'(It looks like) there is a covered body by the back (of the house).'
(SKX 132)
\begin{tabular}{llll} 
b. & Bi-mie bi-mie & bua pou-pou \\
be-INF be-INF & place dark-dark \\
odo-li:-we & gune. \\
become-INC.PRP-ACC & EV
\end{tabular}
'After a while (he saw that) it grew dark outside.' (SKX 210)
c. Dogbo nada gaja-ziga zugdi night seven bird-PL house
\begin{tabular}{lll} 
xo:n-dile-ni & dono-gi:-we & gune. \\
top-LOC-3SG & perch-REP.PRP-ACC
\end{tabular}
'In the night (he heard) that seven birds perched on top of the house.' (SKX 218)

We have no evidence for such a construction in the Southern dialect.

\subsection*{20.2.3. Converbial sentential object}

The converbial sentential complement is expressed by the Purposive Converb (7.6.2.1).

\subsection*{20.2.3.1. Subject control}

The Purposive Converb takes personal inflections that cross-reference the subordinate subject, either different-subject inflections or same-subject inflections. The converbial subject-controlled complement clause has irrealis modality: it always refers to the prospective situation in the future with respect to the moment of speech.

\subsection*{20.2.3.1.1. Subject-control verbs}

The following verbs take the subject-controlled converbial complement clause:
\begin{tabular}{rlll} 
(1474) ča:la- & 'agree' & nixe- & 'be going to' \\
dakca- & 'be going to' & xeline- & 'be in a hurry' \\
belexi- & 'prepare' & safa- & 'be tired' \\
alasi- & 'wait' & &
\end{tabular}

Examples:
```

(1475) a. Maša etete-tigi \etaene-lege-mi xeline-ini.
MaSa [work-LAT go-PURP-SS] hurry.up-3SG
'Maša is in a hurry for work.'
b.
b. Minti gulin-e-lege-fi
belexi-fi.
we [leave-0-PURP-SS.PL] prepare-1PL.EX
'We are preparing to leave.'
c. Bagdi: getu zugdeme zugde-me
live.PRP PL Zugdeme Zugdeme
gune-lege-ti safa:-ni.
say-0-PURP-3PL be.tired.PAST-3SG
'He was tired that everybody called Zugdeme Zugdeme.' (K 148)

```
20.2.3.1.2. The verb dakca- 'be ready to, be going to'

The verb dakca- 'be ready to, be going to' is a subject-control verb which takes either the infinitival complement clause or the converbial complement clause. The infinitival clause is present when there is no active participation of the subject in the subordinate situation (1476a). The converbial clause is used when the subject is supposed to control the situation of the subordinate clause (1476b).
```

(1476) a. Ele xuili-mi dakca:-ni.
[soon boil-INF] be.going.PAST-3SG
'It was going to boil.'
b. Nua-ti Moskwa-tigi
he-3PL [Moscow-LAT
\etaene-lege-fi
go-PURP-SS.PL]
dakca-iti.
be.going-3PL
'They are going to go to Moscow.'

```
20.2.3.1.3. The verb nixe- 'be going to, have to'

The verb nixe- normally means 'do, make', but it can also have modal meaning. When it takes the converbial subject-controlled complement it means 'be going to do something', while when it takes the infinitival subject-controlled complements it rather means 'have to do something', compare (1477) with (1478).
\(\begin{array}{lllll}\text { (1477) a. } & \text { Bi Ololo-tigi } & \text { nene-mi } & \text { nixe-mi. } \\ & \text { me [Olon-LAT } & \text { go-INF] } & \text { do-1SG } \\ & \text { 'I have to go to Olon.' } & \end{array}\)
b. Men-e kainku-i
[REF-0 brake-REF fetch-REP-PURP-SS]
nixe-ini.
do-3SG
'She has to take back her brake (for leather).'
\begin{tabular}{lll} 
a. & Ma:ma-i & uli-lege-mi \\
grandfather-1SG & [sew-PURP-SS] & nixe-ini. \\
do-3SG
\end{tabular}
\begin{tabular}{lll} 
b. & \begin{tabular}{ll} 
Ugda-tigi & tugbu-lege-mi \\
[boat-LAT & cut.wood-PURP-SS]
\end{tabular} & \begin{tabular}{l} 
nixe-ini. \\
do-3SG
\end{tabular}
\end{tabular}
'He is going to cut wood for the boat.'
\(\begin{array}{llcc}\text { c. } & \text { Bi zali-we } & \text { wo-logo-mi } & \text { nixe-mi. } \\ \text { me [barn-ACC } & \text { make-PURP-SS] } & \text { do-1SG } \\ & \text { 'I am going to make a barn.' } & \end{array}\)

\subsection*{20.2.3.2. Object control}

In object-controlled converbial clauses, the subordinate subject is coreferential with the object of the superordinate clause. The object is normally dropped under coreference and cross-referenced by different-subject inflections on the converb. As in the case of the subject-controlled converbial clause, the object-controlled converbial clause expresses the irrealis modality.

\subsection*{20.2.3.2.1. Direct object control}

With the following matrix verbs the superordinate clause Accusative object controls the subordinate clause:
\begin{tabular}{llll} 
tatusi- & 'teach' & numnisi- & 'teach' \\
gele- & 'ask' & mudeusi- & 'persuade'
\end{tabular}

Sentence examples:
(1480) a. Nua-ni min-e-we gele-ini bi
he-3SG me-0-ACC ask-3SG [me belesi-lege-i. help-PURP-1SG]
'He asked me to help.'
b. Bi Ñura-wa uli-lege-ni tatusi-mi.
me Niura-ACC [sew-PURP-3SG] teach-1SG
'I teach Njura to sew.'

\subsection*{20.2.3.2.2. Indirect object control}

For the following group of verbs the complement clause is controlled by the indirect object that corresponds to the Lative recipient argument of the matrix verb:
(1481) oño- 'write' dian- 'say'

Sentence examples:
(1482) Dian-a-ja
tell-0-IMP.2SG
eme-lege-ni.
come-PURP-3SG]
'Tell your father to come to see us.'
20.2.3.2.3. The verb kaja- 'send, order'

The verb kaja- has two valence patterns with slightly different meanings: it takes the Accusative argument in the meaning 'send', and the Lative argument in the meaning 'order'; in both cases this argument controls the complement clause; compare (1483) and (1484).
(1483) a. Enime-i min-e-we kaja:-ni
mother-1SG me-0-ACC send.PAST-3SG
limona-wa
[schizandra-ACC
t'ei-ne-lege-i.
collect-DIR-PURP-1SG]
'My mother sent me to collect berries of schizandra (a local variety of creeper).'
b. Jegdige min-e-we kaja:-ni si
hero me-0-ACC send.PAST-3SG [you
aziga-ni-we-i gele-lege- \(i\).
daughter-AL-ACC-2SG ask-PURP-1SG]
'The hero sent me to ask (you to give him) your daughter.' (K 158)
(1484) Wakca-na-laga-ti
[hunt-DIR-PURP-3PL
\(\begin{array}{ll}\text { kaja:-mi } & b i \\ \text { order.PAST-1SG] } & \text { me }\end{array}\)
nua-ti-tigi.
he-PL-LAT
'I ordered them to go hunting.'
The object can be omitted from either the complement clause or the superordinate clause, or both. In the latter case, the only overt marker of the
controlling argument is the different-subject personal inflection on the subordinate predicate.
(1485) Wakca-na-laga-ti
[hunt-DIR-PURP-3PL] kaja:-mi. order.PAST-3PL
'I ordered them to go hunting.

\section*{Chapter 21 Adverbial clause}

Most adverbial clauses in Udihe are non-finite: they can be infinitival, participial, or converbial. The morphology of the Infinitive, the active participles, and the converbs is described in Chapter 7; other types of participles are not used in the adverbial clause (for the one exception see 21.3.1.6). The semantic type of the infinitival and converbial adverbial clauses is largely determined by the subordinate predicate itself, that is, by the particular type of converbs or infinitive. The semantic type of the participial clause is normally conditioned by the case- or postpositional marking on the participle. In this chapter, the adverbial non-finite clauses are classified according to their formal and semantic types.

Typically the position of the adverbial clause in the sentence is either at the beginning or at the end. It does not intrude between verbal arguments or between an argument and the verb, with the exception of the infinitival manner clause (21.1.1) when it consists of one word (the predicate). There is a strong tendency to front the adverbial clause. However, a purpose clause is usually postverbal.

\subsection*{21.1. Infinitival adverbial clauses}

The infinitival adverbial clause expresses the manner or a concomitant action, but it may also have a wide range of additional meanings (temporal, causal, or concessive). Not infrequently it has a coordinative function, that is, is not syntactically embedded in the matrix clause.

The infinitival clause is normally controlled by the subject of the superordinate clause. Some exceptions to this rule are addressed in 15.1.1.6.2.

\subsection*{21.1.1. Manner clauses}

The following examples illustrate the infinitival clause of manner or concomitant action. The situations of the superordinate and the subordinate clause are simultaneous in this case, and the subordinate clause situation is normally imperfective.
```

(1486) a. Sugzä susa-li-e-ni men-e amä:la-i
fish escape-INC-PAST-3SG [REF-0 after-REF
ugda-wa ta\etada-mi.
boat-ACC carry-INF]
'The fish escaped carrying the boat after itself.'
b. nua-ini xe\etapi-mi-de.
sleep-3SG [snore-INF-FOC]
'He sleeps snoring.'
c. Solo-mi
[move.upstream-INF]
ete:-ni.
look.PAST-3SG
'He looked at the water while moving upstream.'
d. Nua-ni so\etao-mi telu\etau-si-e-ni.
he-3SG [cry-INF] story-V-PAST-3SG
'He was speaking while crying.'
e. Bi eke-le anči bi-mi zeuze-we
me [time-LOC no be-1SG] food-ACC
diga-mi.
eat-INF
'I eat in a hurry (literally: being without time).'

```

\subsection*{21.1.2. Coordinative clauses}

Less frequently the infinitival clause expresses an action which is anterior with respect to the situation of the superordinate clause. This action tends to immediately precede the superordinate clause situation without being separated from it by a large interval of time, and is perfective:
```

(1487)a.

| Zauya | tene $\quad$ nua-ma-ni | ise-mi |
| :--- | :--- | :--- |
| greenling | CONT $[$ he-ACC-3SG | see-INF] |

täli-e-ni.
escape-PAST-3SG
'And the greenling (a sort of salmon), having seen him, escaped.'
b
llal:-za
etete-li-gi-e-ni.
work-INC-REP-PAST-3SG
'(Immediately) after returning from the forest, he started working.'
c. Nua-ni
he-3SG [be.afraid-INF]
susa-gi-e-ni.
escape-REP-PAST-3SG
'Having got frightened, he escaped again.'

```
\begin{tabular}{lll} 
d. Jegdige & tukä-ma-mi & um'a-i \\
hero & {\([r u n-I N T N-I N F] ~\)} & hook-REF
\end{tabular}
    gagi-e-ni.
    take-PAST-3SG
'The hero ran and took his hook.' (K 143)

Examples (1487) might best be translated into European languages using the coordinated construction, cf. for (1487a): 'the greenling saw him and escaped', for ( 1487 b ) 'He returned from the forest and started working', etc. Indeed, coordination of this type is missing in Udihe and the adverbial infinitival clause is its closest equivalent.

\subsection*{21.1.3. Causal clauses}

An additional causal meaning of the infinitival clause is demonstrated by the following examples.
```

(1488)a. Agda-mi abuga so\etao-li-e-ni.
[be.happy-INF] father cry-INC-PAST-3SG
'The father cried from happiness.'
b. Deu-mi
[get.tied-INF] stop.PAST-3SG
'He stopped from tiredness.'
c. Gekti-mi bude:-ni.
[freeze-INF] die.PAST-3SG
'He died from cold.'
d. Lali-mi
[starve-INF] die.PAST-3SG
'He died from hunger.'

```

\subsection*{21.1.4. Concessive clauses}

An additional concessive meaning of the infinitival adverbial clause is illustrated below.
\begin{tabular}{lllll} 
(1489) a. & Ñ'aula & bi-mi & kui-ni & anči. \\
& [young & be-INF] & strength-3SG & no
\end{tabular}
'Although he is young, he does not have strength.'
\begin{tabular}{lllll} 
b. Nina & ic'a & bi-mi & xai & min-e-we \\
[Nina & small be-INF] & still & me-0-ACC \\
belesi:-ni. & & & \\
help-3SG & & \\
'Although Nina is small, she helps me.' & \\
c. \begin{tabular}{llll} 
Zo:yku bi-mi & \(e-i t i\) & etete. \\
[poor & be-INF] & NEG-3PL & work
\end{tabular} 'Although they are poor, they don't work.'
\end{tabular}

In concessive clauses the infinitival predicate is often followed by the contrastive focus particle \(-g d A\) (12.1.1.8).
\begin{tabular}{|c|c|c|c|}
\hline \[
\begin{aligned}
& \text { (1490) Nua-ni } \\
& {[\text { he-3SG }}
\end{aligned}
\] & \begin{tabular}{l}
n'aula-gda \\
child-FOC
\end{tabular} & \[
\begin{aligned}
& b i-m i \\
& \text { be-[NF] }
\end{aligned}
\] & \begin{tabular}{l}
nukte-ni \\
hear-3SG
\end{tabular} \\
\hline c'ama white & \begin{tabular}{l}
ede:-ni. \\
become.PAST-3SG
\end{tabular} & & \\
\hline 'Although & gh he is young, his ha & as becom & \\
\hline
\end{tabular}

\subsection*{21.2. Participial locational clauses}

The participial locational clause corresponds to the adverbial clause introduced by 'where' in European languages. It can have different spatial meanings of the locative, lative, and ablative type. It is formed with the personal form of the active participle, which takes the corresponding case suffix or postposition, and the personal inflection indicating the subject of the subordinate clause. Such a subordinate clause is formally indistinguishable from the headless relative clause (19.5) with an empty head referring to some kind of place, and should perhaps be analyzed as such.

The following sentences illustrate the locational adverbial clause, in which the participle takes Locative (1491), Dative (1492), Ablative (1493), and Lative (1494) case marking, or is followed by a locational postposition (1495).
(1491) a.
\begin{tabular}{ll} 
Magazina & bi-si-le-ni \\
[shop & be-PP-LOC-3SG
\end{tabular}
wo-won-ki-ti.
make-CAUS-PAST-3PL
'They have built a club where there used to be a shop.'
b. Bi 'ana-wa egdi ni: bi-zeye-le-ni
me boat-ACC [many man be-FP-LOC-3SG]
nede-zene-mi.
put-FUT-1SG
'I will put my boat where there will be a lot of people.'
c. Dampi: zugdi bi-sin-dile-ni zuf
[old house be-PP-LOC-3SG] exactly
tegi-ze-i.
stand-SUBJ-2SG
'Stand exactly at the place where the old house was.' (K 166)
(1492) a.

Anana bi bagdi-en-du-i mo:
[long.ago me live-PP-DAT-1SG] tree
bagdi-gi-e-ni.
grow-REP-PAST-3SG
'Where I used to live trees have grown up again.'
b. Buji gä:ma:-ni ni: bi-sin-di-ni
animal bone-3SG [man be-PP-DAT-3SG]
\(b i-s i-n i\).
be-PAST-3SG
'The bones of the animals were in the place where men used to live.' (Schneider 1936: 143)
(1493)a. Sono gegbeyku-we bi nede:-digi:
bear berry-ACC [me put.PP-ABL.1SG]
gagi-e-ni.
take-PAST-3SG
'A bear took berries from where I put them.'
b. Bi abuga-i etete-i-digi: e-si-ni
me father-1SG [work-PRP-ABL.SS] NEG-PAST-3SG
eme-gi.
come-REP
'My father has not come from work.'
(1494)a. Bi egdi b'oto bagdi:-tigi-ni
me [many mushroom grow.PRP-LAT-3SG]
ŋеne-zeŋe-i.
go-FUT-1SG
'I will go to where there are many mushrooms.'
b. Düisi-en-tigi
[hear-PP-LAT.SS] shoot-PAST-3SG
'He was shooting towards where he heard (the sounds).' (Schneider 1936: 143)
\(\begin{array}{llll}\text { (1495) a. } & \begin{array}{ll}\text { To: } \\ \text { [fire } & \text { zegde-i-ni }\end{array} & \text { burn-PRP-3SG } & \begin{array}{l}\text { do-lo-ni } \\ \text { inside-LOC-3SG] }\end{array} \\ & b i-s i-m i .\end{array}\)


\subsection*{21.3. Temporal clauses}

To form a temporal adverbial clause, converbs, or participles with different case and postpositional marking, are used.

\subsection*{21.3.1. Participial temporal clauses}

In the participial temporal clause postpositions follow the Present or Past active participles in the personal form. All postpositions take the \(3^{\text {rd }}\) person Singular inflection (on the personal inflection of postpositions see 10.2.1.2). The meaning of such a clause and its temporal relationship to the situation of the superordinate clause is largely determined by the postposition itself. Alternatively, the participle in the temporal adverbial clause takes case inflections, although in this function only a few cases are possible.

\subsection*{21.3.1.1. Temporal clauses with the postposition zuliete, zulieni 'before'}

Only the Present Participle co-occurs with this postposition. The situation of the subordinate clause follows the situation of the superordinate clause.

21.3.1.2. Temporal clauses with the postposition amä:lani 'after'

The subordinate clause predicate corresponds to the Present Participle. The situation of the subordinate clause precedes the situation of the superordinate clause:
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{(1497) a.} & \begin{tabular}{l}
Sie-we \\
[wound-ACC
\end{tabular} & \[
\begin{aligned}
& b^{\prime} a-m i \\
& \text { get.PP-SS }
\end{aligned}
\] & \multicolumn{2}{|l|}{amä:-la-ni} \\
\hline & \[
\begin{aligned}
& g e:-z i \\
& \text { bad-INST }
\end{aligned}
\] & dogdi-mi. hear-1SG & & \\
\hline & \multicolumn{4}{|l|}{'After I got wounded, I heard badly.'} \\
\hline b. & Nua-ni & yene:-ni & amä:-la-ni & \(b i\) \\
\hline & [he-3SG go & go.PP-3SG be & behind-LOC-3SG] & me \\
\hline & emus'e es & esi-gi-e-mi. & & \\
\hline & alone b & become-REP-PAS & ST-1SG & \\
\hline & \multicolumn{4}{|l|}{'After he left, I remained alone.'} \\
\hline \multirow[t]{4}{*}{c.} & Keige dig & \[
\text { diga- } i
\] & \[
a m a ̈:-l a-n i
\] & begdi: \\
\hline & & eat-PRP & behind-L & \\
\hline & ear.REF & wash-3SG & & \\
\hline & \multicolumn{4}{|l|}{'The cat washes paws and ears after eating.' (SK 195)} \\
\hline
\end{tabular}

\subsection*{21.3.1.3. Temporal clauses with the postposition dexi 'until'}

The situation of the subordinate clause expressed with the Present Participle indicates the temporal limit for the situation described in the superordinate clause.

21.3.1.4. Temporal clauses with the postposition ekindini, ekinduni, doloni 'when, during'

The situations of the superordinate and the subordinate clause are simultaneous, but do not last for the same period of time; normally the situation of the superordinate clause is included in the temporal interval described by the subordinate clause. Both Present and Past Participles seem to be allowed in this type, depending on the time reference of the adverbial clause.
(1499) a. Bu bana:-u
[we move.PP-1PL.EX
ma:ma-u
grandmother-1PL.EX
'Grandmother died when we were moving.'
b. Bi etete-i
[me work-PRP.1SG
e-zi-u NEG-IMP-2PL disturb
'Don't disturb me when I am working.'
ekindini
when]
bude:-ni.
die.PAST-3SG
ekindini
when]
dayula.
min-e-we
me-0-ACC '

A similar meaning may sometimes be rendered by the postposition dolo-ni 'inside', cf.:
\begin{tabular}{lll} 
yene- \(i\) & dolo-ni & čegente-i. \\
go-PRP & inside-3SG & chase.away-2SG
\end{tabular}
'While you are walking you are chasing (animals) away.' (SKX 28)
21.3.1.5. Temporal clauses with the postposition agdaduni, agdalini 'while'

The situation of the superordinate and the subordinate clause are simultaneous and develop in parallel for roughly the same period of time. Only Present Participles are used.


\subsection*{21.3.1.6. Temporal clause with the postposition edeisini 'when'}

The time reference of the situations described in both the superordinate clause and the subordinate clause are in the future; however, the subordinate predicate is the Past Participle (1502) or Past passive participle (1503). Mostly same-subject sentences occur in this type.
```

(1502)a. Xoton-tigi \etaene: edeisini mä:usa-wa
[city-LAT go.PP when] gun-ACC
gada-zana-ti.
buy-FUT-3PL
'When they go to the city, they will buy a gun.'
b. Ba:-za ge-digi-ni eme-gi-e
[place-N surface-ABL-3SG come-REP-PP
edeisini etete-li-zene-ni.
when] work-INC-FUT-3SG
'When he comes back from the forest, he will start working.'
c. }\begin{array}{lll}{Bi umi-e }\&{\mathrm{ edeisini }}\&{\mathrm{ jexe-zene-i }}<br>{\mathrm{ [me drink-PP }}\&{\mathrm{ when] }}\&{\mathrm{ sing-FUT-1SG}}
'When I drink, I will sing.'

```
\begin{tabular}{llllll} 
(1503) a. & \begin{tabular}{ll} 
Seutige
\end{tabular} & na:-la & buge-se & edeisini & kuyka \\
& [nut & earth-LOC & put-PP.PAS & when] & cedar \\
& bagdi:-ni. & & & & \\
& grow-3SG & & &
\end{tabular}
'A nut, when put in earth, grows into a cedar tree.'
\begin{tabular}{lll} 
b. Wayba-wa xugi-le-te & edeisini & e-ini \\
[turtle-ACC turn-SING-FOC & when & NEG-3SG]
\end{tabular}
mute xugi-kce-mi.
can turn-DUR-INF
'If you turn a turtle (upside down), it can not turn (back).'
In the clauses with the postposition edeisini the Past Participle is used in its impersonal form, that is, it does not take any affixes indicating same-subject or different-subject. This probably reflects the origin of the construction in question: the postposition edeisini is historically the Perfective Converb of the verb ede- 'become' optionally augmented by the \(3^{\text {nd }}\) person affix \(-n i\) (< ede-isi-ni). Originally the subordinate clause construction might have had the possessive meaning, and the literal translation of the subordinate clause in (1502a), for example, should have been something like 'their becoming of going to the city'. The content verb here acts in its bare form, as the possessor normally does (13.1).

\subsection*{21.3.2.7. Temporal clauses with the participle in the Ablative}

The ablative case suffix -digi- marks the participle in the adverbial clause with the meaning 'as soon as'. It can be either the Future Participle (1504a) or the Present Participle of the inchoative verb (1504b). The time reference of the superordinate clause is the future.
(1504) a. Nua-ni eme-gi:-digi-ni
[he-3SG come-REP.PRP-ABL-3SG]
nene-zene-fi.
go-FUT-1PL.IN
'We will leave as soon as he comes.'
b. Tigde tigde-li:-digi-ni kuyka
[rain rain-INC.PRP-ABL-3SG] cedar
xegie-le-ni te:-zene-fi.
under-LOC-3SG sit-FUT-1PL.IN
'As soon as it starts raining we will sit down under the cedar.'
The same structure can render the meaning 'since'.
(1505)Ehineni jehi seh odo-ini bahta bagdien-digi-ni.
today nice year become-3SG boy be.born.PP-ABL-3SG 'Today it is nine years since the boy was born.' (SK 696)

\subsection*{21.3.2.8. Temporal clauses with the participle in the Instrumental}

The adverbial clause with the Past Participle in the Instrumental case (with -zicase inflection) mostly expresses the situation that is prior to the situation of the superordinate clause. This is only allowed when the subject of the subordinate clause is coreferential with the subject of the superordinate clause, and this is marked by same-subject personal inflections on the participle. The corresponding meaning for the different-subject clause is expressed by the Perfective Converb, see 21.3.4.

The subordinate construction with the Past Participle in the Instrumental case can be used only when the superordinate clause refers to the present or the past, while anteriority in the future may only be expressed by the Perfective Converb (21.3.2.2). Such an adverbial clause often implies a causal meaning, as in (1507). Exceptionally, it may also express simultaneous action (1508).
```

(1506) a. Minti go:go gua:-zi-fi
[we long sleep.PP-INST-SS.PL]
ete\etai-e-fi.
wake.up-PAST-1PL.IN
'After having slept for a long time, we woke up.'
b. Tigde ba:-la tigde:n-zi
[rain place-LOC rain.PP-INST.SS]
wadi-e-ni.
stop-PAST-3SG
'The rain, after starting outside, finished.'
c. Zeuze-we mala:-zi-fi
[food-ACC consume.PP-INST-SS.PL]
eme-gi-e-mu.
come-REP-PAST-1PL.EX
'After consuming the food, we came back.'
d. Caja-wa umi-mi metu-o:n-zi
[tea-ACC drink-INF finish-PP-INST.SS]
\etaene:-ni.
go.PAST-3SG
'After finishing drinking tea, he left.'
(1507)a. Si utebe dia\eta-kin-zi: xagza-i.
[you so say-PP-INST.SS] be.ashamed-2SG
'You are ashamed because you said so.'
b. Gektin-zi: teu buk-ki-ti.
[freeze.PP-INST.SS] all die-PAST-3PL
'Everybody died from cold.' (K 121)
c. Jegdige muisi-e-ni susa:-ni
hero think-PAST-3SG [escape.PAST-3SG
etete-ze\etae-zi:.
work-FP-INST.SS]
'The hero thought: she escaped from working.' (K 154)
(1508)Si so\etao:n-zi-gde bagdi:
[you cry.PP-INST.SS-FOC] live.PRP
'You live crying.'

```

In the Northern dialect such a construction is also found in the different-subject sentences.
```

(1509)Digene:n-zi-le xaku Za\etadalafu tekceli
[hide.PP-INST-CONT soon] Zandalafu with.noise
eme-gi-e-ni.
come-REP-PAST-3SG
'As soon as she hid, Zandalafu returned with noise.' (K 105)

```

\subsection*{21.3.2.9. Temporal clauses with the participle in the Accusative}

This fairly rare type of temporal clause is based on the Accusative of the Present or Past Participle. It expresses a temporally associated situation, typically temporally close to the main clause situation, but the exact relationship between two clauses remains semantically non-specified. The subordinate clause may express a simultaneous and related situation involving a different participant (1510), as well as have a concessive or conditional meaning (1511), cf.:

e. B'oto anana taji-e-ti mushroom earlier gather-PAST-3PL
\(e-s i-m e-n(i)-d e\)
[NEG-PP-ACC-3SG-FOC
bolo-gi. autumn-REP]
'Earlier they gathered mushrooms before the autumn came.'
\(\begin{array}{llll}\text { (1511) a. } & \text { Ono ja-za-mi } & \text { ni: } & \text { xuktu:-me-ni? } \\ & \text { how PROV-SUBJ-1SH } & \text { [man carry.away.PP-ACC-3SG] } \\ & \text { 'What shall I do if somebody carried a man away?' (SKX 154) }\end{array}\)
\[
\begin{array}{ll}
\text { b. Wa:-ma-i } & \text { ono nixe-ze-mi? } \\
\text { [kill.PP-ACC-2SG] how do-SUBJ-1SG } \\
\text { 'If you killed (him), what shall I do?' }
\end{array}
\]

In the same-subject sentences the embedded participle is not marked for the Accusative (see 22.5.1.2), as shown in (1512). The subordinate clause may be formally passivized, as in (1513), where the subordinate clause is expressed by the impersonal passive Necessitative Participle marked by the \(3^{\text {rd }}\) person agreement affix. The corresponding passive and non-passive clauses are synonymous.
```

(1512)Etete-ze\etae bi-si-mi Petra Olo\etao-tigi
[work-FUT be-PP-INF] Peter Olon-LAT
\etaene:-ni.
go.PAST-3SG
'(Although) he had to work, Peter went to Olon.'

```
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{} & \begin{tabular}{l}
Bu etete-u-zeye \\
[we work-PAS-FP
\end{tabular} & & \begin{tabular}{l}
bi-si-me-ni \\
be-PP-ACC-3SG]
\end{tabular} & \begin{tabular}{l}
'ai-we \\
vodka-ACC
\end{tabular} \\
\hline & \[
\begin{array}{ll}
\text { sene }  \tag{1513}\\
\text { only } & \text { umi-u. } \\
\text { drink-1 }
\end{array}
\] & IPL.EX & & \\
\hline \multicolumn{5}{|c|}{'(Although) we have to work, we only drink vodka.'} \\
\hline \multirow[t]{2}{*}{b.} & \begin{tabular}{l}
E-u-zene \\
[NEG-PAS-FP
\end{tabular} & \[
\begin{aligned}
& \text { bi-si-n } \\
& \text { be-PP. }
\end{aligned}
\] & \[
\begin{array}{ll}
e-n i & \eta \\
\text { ACC-3SG1 }
\end{array}
\] & \begin{tabular}{l}
i. \\
T-1SG
\end{tabular} \\
\hline & '(Although) I did & thave & I went.' & \\
\hline
\end{tabular}

\subsection*{21.3.2.10. Temporal clauses with the participle in the Dative}

The temporal copular clause may be marked with the Dative on the impersonal participle, normally when it refers to the natural phenomena (cf. also the Dative temporal adjuncts discussed under 15.4.2.1). However, example (1515b) below shows that this condition is not necessary.
(1514) Timadu-le \(\quad z^{\prime} e \quad\) su: gakpain-du-ni
morning-LOC [soon son rise.PP-DAT-3SG]
eke ili-way-ki-ni uti aziga.
quiet stand-CAUS-PAST-3SG that girl
'In the morning as soon as the son rose he put this girl so she stood quietly.' (SKX 162)

It should be noticed that in this type impersonal forms of participles are fairly frequently used although the embedded subject is overtly present.
(1515) a. Timadu-le puile bi:-du
[morning-LOC before.sunrise be.PRP-DAT]

    te:-gi-e-ni.

    sit-REP-PAST-3SG

    'He got up in the morning before sunrise.'(K 197)
b. So:ndo sagdi sama-ziga sama-si-si:-du
    \(\sin \quad[\mathrm{big}\) shaman-PL shaman-V-IM.PRP-DAT]
    a:nta bi:-ni zugdi-du.
    woman be-3SG house-DAT
'It is forbidden for a woman to be in any house where big shamans are shamanizing.' (SKX 214)

\subsection*{21.3.2.11. Temporal clauses with the participle in the Lative}

These type of clauses denote temporal limit of the action.


\subsection*{21.3.2. Converbial temporal clauses}

\subsection*{21.3.2.1. Temporal clauses with the Imperfective Converb}

The Imperfective Converb expresses a situation simultaneous to the situation of the superordinate clause. The subordinate clause serves as a temporal background for the superordinate clause. Both simultaneous situations refer to the past, so the Imperfective Converb conveys an absolute-relative tense: its intrinsic point of reference is both the moment of speech (anteriority) and some moment in the past (simultaneity). The situation of the subordinate clause is progressive in its character, and so tends to be the situation of the superordinate clause, although it can sometimes also describe a perfective event.

Both same-subject (1517) and different-subject (1517) sentences are possible for this type.


\subsection*{21.3.2.2. Temporal clauses with the Perfective Converb}

The Perfective Converb expresses the perfective situation temporally anterior with respect to the situation of the superordinate clause. Anteriority holds for different tenses in the superordinate clause-the Past (1519), the Present (1520) and the Future (1521). The Perfective Converb conveys the relative past tense.
\begin{tabular}{lllll} 
(1519) a. & In'ei-we & tindani-ge-si & nene:-ti & caixi. \\
& [dog-ACC let-PERF-PC.SS] & go.PAST-3PL & further \\
& 'Having loosened the dogs they went further.' &
\end{tabular}
b. Nua-ni o-du bi:-ni
he-3SG this-DAT be-3SG
bolo-gi-lii-si-ni.
[autumn-REP-INC-PC-3SG]
'He has been living here since autumn.'
(1520) a

Nua-ni eme:-ni
he-3SG came.PAST-3SG
magazina
kimpigi:-si-ni.
close-PC-3SG]
'He came after the shop had closed.'
b. Umi-du-ge-si jexe-du nua-ti.
[drink-PL-PERF-PC.SS] sing-PL he-3PL
'Having drunk they usually sing.'
(1521)
\begin{tabular}{lllll} 
a. & Tege-we & si & uli:-si & muzei-du \\
[gown-ACC & you & sew-PC.2SG] & museum-DAT \\
bi-zene-ni. & & & \\
be-FUT-3SG & & &
\end{tabular}
'After you sew the gown, it will be in the museum.'
\begin{tabular}{llll} 
b. \begin{tabular}{lll} 
Omo & neni-ni & bi-s' \(e-\) si \\
[one & day-3SG & be-PERF-PC.SS]
\end{tabular} & \begin{tabular}{l} 
yene-zene-ni. \\
go-FUT-3SG
\end{tabular}
\end{tabular}
'He will leave after having been (here) for one day.'
\begin{tabular}{lll} 
c. & Bi eme-gi-ge-si & sin-tigi \\
[me come-REP-PERF-PC.SS] & you-LAT \\
zima-zaya-i. & \\
visit-FUT-1SG & \\
'When I come back, I will visit you.' &
\end{tabular}

As discussed below, temporal clauses with the Perfective Converb have a slightly different meaning for the same-subject and the different-subject converbs, which may ultimately reflect the absence of formal parallelism between these two forms (cf. 7.6.2.3).

\subsection*{21.3.2.2.1. Same-subject sentences}

The same-subject forms of the Perfective Converb tend to express not only, and perhaps not primarily, the temporal meaning (1522), but also the manner or the accompanying circumstances (1523), or clausal coordination (1524).
```

(1522)a. Bi sagdi ed'e-si
[me big become.PERF-PC.SS]
'When I get big, I will hunt.'

```
b. Dami-we jikpes'e-si [tobacco-ACC breath.PERF-PC.SS] hare simpi-li-e-ni.
Sneeze-INC-PAST-3SG
'After having breathed the tobacco, the hare started sneezing.'
\(\begin{array}{ll}\text { c. Umi-ge-si: } & \text { jexe- } i \\ \text { [drink-PERF-PC.SS] } & \text { sing-P }\end{array}\)
'After drinking he sings.'
```

(1523) a. Kept'e-si taŋi:-ni.
[lie.PERF-PC.SS] read-3SG
'He reads lying down (having lain down).'
b. Bi mo: do:-tigi-ni
me tree top-LAT-3SG
su:-we nala-zi:
[sun-ACC hand-INST.REF close-PERF-PC. SS]

```
'I was looking at the top of the tree, having blanked out the sun with my hand.'
```

(1524)a. Kasanziga xukti-wesi-ge-si
[puppy run-DIV-PERF-PC.SS]

```
kepte-gi-e-ni. lay-REP-PAST-3SG
```

'The puppy lay down after having run.'

```
b. Bi digay-ka-si nene:-mi.
[me say-PERF-PC.SS] go.PAST-1SG
'After having spoken I left.'
c. Bi digan-a-kc'a-si wadi-e-mi.
[me say-0-DES.PERF-PC.SS] stop-PAST-1SG
'I wanted to speak, (but) changed my mind.'
Such clauses, then, exhibit an anterior correlate to the infinitival adverbial clauses of manner or concomitant action (21.1), while a purely temporal meaning of anteriority for the same-subject temporal clauses is expressed by the participle in the Instrumental case (21.3.2.8).

\subsection*{21.3.2.2.2. Different-subject sentences}

The different-subject converbial forms normally tend to express a purely temporal situation since the Instrumental participial clauses addressed in 21.3.2.8 are absent for different-subject sentences The adverbial clause corresponds to a perfective situation prior to the situation of the superordinate clause:
```

(1525)
a. Nua-ni eme:-ni
he-3SG came.PAST-3SG
kimpigi:-si-ni.
close-PC-3SG]
'He came after the shop had closed.'
b. Xe\etadegi:-si jakpa-na-gi:-ni, bugdi:
[step-PC.1SG] canyon-V-REP-3SG [foot.REF
windegi:-si kico-no-gi:-ni bombo-no-gi:-ni.
lift-PC.1SG] hill-V-REP-3SG hillock-V-REP-3SG
'When I step down, a canyon appears, when I lift my foot a hill
appears, a hillock appears.'

```

If the superordinate clause verb is clearly imperfective, the subordinate clause may have a simultaneous meaning. In (1526a) it expresses the perfective event which takes place with the imperfective situation of the superordinate clause as its background (the superordinate clause verb is in the Progressive). In (1526b) the superordinate clause and the subordinate clause situations develop simultaneously in the past.


Like practically all temporal clauses, the temporal clause with the Perfective Converb can imply an additional causal meaning.
```

(1527)a. Bi sita-i so\etao-isi-ni utemi
[me son-1SG cry-PC-3SG] therefore
amä:sa:-mi.
be.late.PAST-1SG
'I was late because my son was crying.'
b. Su: su:ni:-si-ni xokto og'ou-gi-e-ni.
[sun shine-PC-3SG] road dry-REP-PAST-3SG
'The road dried up from the sun.'
c. Nua-ni bude:-ni kuliga ikteme-le-isi-ni.
he-3SG die.PAST-3SG [snake bite-SING-PC-3SG]
'He died from a snake's bite.'
d. Bi ge: etete-isi: tagda:-ni.
[me bad work-PC.1SG] get.angry.PAST-3SG
'He got angry because I had worked badly.'

```
21.3.2.3. Temporal clauses with the Conditional Converb

Conditional Converbs are only used sporadically within a temporal clause.
(1528) a.
Ulikte
[shaman.lard
eme-ini
a:da-lisi-ni
ready-CC-3SG]
sama
joxo kä:-tigi-ni.
come-3SG
pot side-LAT-3SG
'When the shaman lard becomes ready, the shaman comes to the pot.'
b. Ele
sikie-gi-lisi-ni
[soon evening-REP-CC-3SG]
susa-gi-kte-iti.
escape-REP-DIST-3PL
'As soon as evening comes, they run away.'
c. Nua-ni \(\quad\) jua-li: xuanti:-ni.
[he-3SG sleep-CC.SS] snore-3SG
'When he sleeps, he snores.'

(SK 373)

\subsection*{21.4. Purpose clauses}

The purpose clause is marked by the Purposive Converb, which takes switch-reference markers, either of the same-subject (1529), or the different subject (1530).


In the different-subject sentence, the subordinate subject can be arbitrarily controlled or controlled by any element of the superordinate clause. Examples (1531) illustrate control by the object of the superordinate clause; example (1532) illustrates control by the possessor within the superordinate clause. The controlled subject of the subordinate clause is omitted under identity with an element of the superordinate clause.
\begin{tabular}{lllll} 
(1531)a. & \begin{tabular}{ll} 
Zueze & bugdi-we-ni \\
table & leg-ACC-3SG
\end{tabular} & \begin{tabular}{l} 
xua-je \\
cut-IMP.2SG
\end{tabular} & \begin{tabular}{l} 
nanga \\
little
\end{tabular} \\
& naktas'a & ede-lege-ni. & & \\
& [short & become-PURP-3SG] & & \\
& 'Cut the table legs so they will be a little shorter.'
\end{tabular}
\begin{tabular}{llll} 
b. & Na: & igbene-le:-ni & kedelinku-zi \\
[skin & soften-PURP-3SG] & bede-iti. \\
& brake-INST & brake-3PL
\end{tabular}
(1532) Bi ugda-i nüsisi-zene-i dogbo
me boat-1SG pitch-FUT-1SG [night
e-lege-ni ise-pte.

NEG-PURP-3SG see-DEC]
'I will put pitch on the boat so that it won't be seen in the night.'
Purposive Converb sometimes renders the intentional meaning, without actually referring to the purpose, cf.:
(1533) Pa-ligi \(\quad\) mafa-wa \(\quad\) gida-la:-mi
black-ADJ bear-ACC spear-PURP-SS
auj-i \(\quad\) wa:-ni.
brother.in.law-REF \(\quad\) kill.PAST-3SG
'Intending) to stab with a spear the black bear, he killed his
brother-in-law.' (K 131)

\section*{21.5. "Instead"-clauses}

The clause that corresponds to the English subordinate clause with the subordinator 'instead' is participial in Udihe. It can only be controlled by the subject of the main clause, that is, the participle takes the same-subject inflections. "Instead"-clauses vary in their modality.

\subsection*{21.5.1. Irrealis clauses}

The irrealis "instead"-clause implies that the situation described by the superordinate clause has been realized contrary to the speaker's expectation described by the subordinate clause. The superordinate clause verb is therefore in one of the past tenses. Such a subordinate clause is expressed by the Future Participle in the Instrumental case.
\begin{tabular}{lll} 
Ma:ma \(\quad\) tege-we & uli-zene-zi: \\
[grandmother gown-ACC & sew-FP-INST.SS] \\
xoyto-wo gada:-ni.
\end{tabular}

\title{
b. Etete-zene-zi: 'ai-we sene umi:. [work-FP-INST.SS] vodka-ACC only drink.PRP \\ 'Instead of working, he only drinks vodka.'
}

\subsection*{21.5.2. Realis clauses}

In the second type of "instead"-clause the situation of the main clause itself has not been realized but is either expected to be realized in the future (in which case the verb has the Future form), or is induced by the speaker (in this case the verb in the superordinate clause is in the Imperative). The modality of the subordinate clause remains unspecified; it can be either realis or irrealis, depending on whether the situation described by the subordinate clause is in progress at the moment of speech or is hypothesized by the speaker. Such a subordinate clause uses the Present Participle, followed by the postposition bede 'like'. In the examples that follow, in (1535a) and (1535b) the situation of the subordinate clause can be understood as either hypothesized or in progress, in (1535c) it is certainly taking place at the moment of speech.


\subsection*{21.6. Causal clauses}

The causal relation between two clauses is expressed by a participial clause with one of two specialized postpositions. The subordinate clause participle only takes the Past or the Present form in this case. An additional causal meaning may be implied by the infinitival clause (21.1.3) and different types of temporal clauses (21.3).
21.6.1. Causal clauses with the postposition dieleni 'because'

The postposition diele-ni 'because' expresses the pure causal relationship:
\begin{tabular}{lll} 
a. & \(B i \quad\) dian-ki-mi \(\quad\) diele-ni & w'ali:-ti. \\
[me say-PP-1SG because-3SG] \\
fight-3PL
\end{tabular}
b. Iwana belesi-e-ni diele-ni zugdi-ne-mi
[Ivan help-PP-3SG because-3SG] house-DEST-REF
wo:-mi.
make.PAST-1SG
'I built a house because of Ivan's help.'
c. Bi Moskwa-du aja ñansule:-mi diele-ni
[me Moscow-LAT good study.PP-SS because-3SG]
eitene učitela-wa etete-mi.
now teacher-ACC work-1SG
'Because I studied well in Moscow, I work as a teacher now.'
d. Bi xunazi: aja etete:-ni diele-ni
[me sister.1SG good work.PP-3SG because-3SG]
Moskwa-tigi jene-wen-ki-ti.
Moscow-LAT go-CAUS-PAST-3PL
'They sent my sister to Moscow for having worked well.'
21.6.2. Causal clause with the postposition dalinka(n)di(ni) 'thanks to'

The postposition dalinka(n)di-ni 'thanks to' does not express the cause as such, but rather implies that the situation of the adverbial clause has positively influenced the event described by the superordinate clause.


\subsection*{21.7. Comparative clauses}

The comparative clause is formed by the participle followed by the comparative postposition bede 'like' or čuli 'exactly like'. Note that there is no ambiguity with the "instead"-clause which also uses the participle with the postposition bede, because in "instead"-clauses the superordinate verb is always in either the Future or the Imperative (21.5). In sentences with comparative clauses, although the comparative subordinate clause is itself formally identical to the "instead"-clause, the superordinate clause is clearly different: it expresses realis modality, and the matrix verb is in the Present or in one of the past tenses. The situation of the subordinate clause can be either real or hypothesized.

Examples of the same-subject (1538) and different-subject (1539) comparative clauses are:

'The merchant dived with his head into the snow, like a pine cone which falls down from the top of the cedar tree.'
c. Sita-ziga inña od'o digay-ki-ni child-PL white.haired old.man say-PP-3SG čul'-de xuli-li-e-ti. like-FOC walk-INC-PAST-3PL 'The children started walking exactly as the white haired old man told (them).' (SKX 324)

\subsection*{21.8. Conditional clauses}

In all conditional sentences the protasis is expressed by the subordinate clause and the apodosis by the superordinate clause. Depending on the general modality of the sentence, factual condition and counterfactual condition are distinguished. Some infinitival clauses may also imply conditional meaning (21.1.1).

\subsection*{21.8.1. Factual condition}

\subsection*{21.8.1.1. Converbial clause}

The subordinate clause predicate is expressed by the Conditional Converb with same-subject or different-subject personal markers. The factual conditional sentence normally refers to the future, therefore the matrix (aposodis) clause verb is either in the Future (1540) or in the Subjunctive (1541).

\begin{tabular}{llll} 
e. & \begin{tabular}{l} 
Namte-lisi-u \\
[again turn.over-CC-2PL]
\end{tabular} & \begin{tabular}{l} 
nua-ni \\
he-3SG
\end{tabular} & \begin{tabular}{l} 
sun-e-we \\
you-0-ACC
\end{tabular} \\
\begin{tabular}{l} 
dukte-zene-ni.
\end{tabular} & \\
beat-FUT-3SG \\
'If you turn over again, he will beat you.'
\end{tabular}
f. Bi xoton-tigi nene-li: sin-du [me city-LAT go-CC.SS] you-DAT
konfeta-wa gada-zaya-i.
candy-ACC buy-FUT-1SG
'If I go to the city, I will buy you some candy.'
g. Nua-ni
nua-lisi-ni
teu eke
[he-3SG sleep-CC-3SG] all quite
dian-a-zaya-ti.
say-0-FUT-3PL
'If he will be sleeping, everybody will speak quietly.'
(1541) Xuajgu-we
[cucumber-ACC
zomi-lisi: si
steal-CC.2SG] you
mouth-2SG crooked-V-SUBJ
'If you steal a cucumber, a melon, or a watermelon, your mouth will become crooked.'

\subsection*{21.8.1.2. Participial clause with the postposition edeisini 'when, if'}

A temporal clause with the temporal postposition edeisini 'when, if' (21.3.1.6) can occasionally express a conditional meaning:
\begin{tabular}{lllll} 
) a. \\
Ča:la- \(i\) & edeisini & \(e i\) & moxo-lo & bi: \\
[want-PRP if] & this cup-LOC & be.PRP \\
gampa-wa & unina-la. & \\
porridge-ACC & spoon-V \\
'If you agree, scoop the porridge which is in this cup.'
\end{tabular}
b. \(S i\) mantila- \(i\) edeisi bi bude-ze.
[you pour-PRP if] me die-SUBJ 'If you pour (water on me), I might die.'

\subsection*{21.8.2 Counterfactual condition}

In counterfactual (hypothetical) conditionals the matrix verb is in the Conditional mood (7.5.4). The subordinate predicate is expressed by the Irrealis Conditional Converb in the Past (1543a, b) or Present (1543c,d). Since
the Past Conditional Converb does not have personal forms, the subject of the subordinate clause must be overtly expressed, as distinct from other types of subordinate clauses.
```

(1543)a. Aja bi-muse bi xunazi: jexe-i
good be-COND [me sister.1SG sing-PRP
bi-si.
be-PAST]
'It would have been nice if my sister sang.'
b. Nua-ni oño-mu:i bi-si oño-muse.
[he-3SG write-DES.PRP be-PAST] write-COND
'If he had wanted to write a letter, he would have written it.'
c. Si
[you
sin-e-we belesi-du-muse.
you-0-ACC help-PL-COND
'If you had asked somebody, they would have helped you.'
d. $S i$
[you
wa-muse-i käna-wa.
kill-COND-1SG
deer-ACC
'If you hadn't disturbed me I would have killed a deer.'

```

If the subordinate clause contains the copular construction (such as those described in Chapter 17) the first component of the Past Conditional which corresponds to the verb be- 'be' is omitted. The Past Conditional Converb is expressed only by the unchangeable copular form bisi. Example (1544a) illustrates the copular subordinate clause construction with the noun as its component, example (1544b) the same construction with the Past passive participle, and example (1544c) the same with the adjective.
(1544) a.
\begin{tabular}{lll}
Bi & sun-zi & geje \\
me & you-INST & together
\end{tabular}
ugda bi-si.
[boat be-PAST]
'I would have come with you, if I had had a boat.'
b. Tege-we uli-se bi-si sin-du
[gown-ACC
sew-PP.PAS be-PAST]
you-DAT
bu-muse-i.
give-COND-1SG
'If the gown had been sewn, I would have given it to you.'
c. Eke-xi bi-si bi eme-muse-i.
[time-ADJ be-PAST] me come-COND-1SG
'If I had had time I would have come.'

The Irrealis Necessitative Conditional Converb expresses an additional necessitative meaning.
(1545) a
Si
[you
nagda-zaŋa
bi-si be-PAST]
nagda.
reach
'You should have reached (the target), but you didn't.'
b. \(S i\)
[you oño-muse-i.
write-COND-1SG
'If you had had to write it, you would have written it.'
c. Bi Olono-tigi j'e-we-de nixe-zene-i
me Olon-LAT [what-ACC-FOC do-FP-1SG
bi-si jene-muse-i.
be-PAST] go-COND-1SG
'If I had had to do something (there), I would have gone to Olon.'

Sometimes in conditional sentences the main clause verb is in the Future or Necessitative.
a. \(S i\)
[you evil.spirit-ACC kill-PRP be-PAST]
memi wa-zaךa-i.
REF.ACC kill-FUT-2SG
'If you kill an evil spirit, you will kill yourself.'
b. Si tu ehi nexe bi-si bi anana
[youso NEG do be-PAST] me long.ago yene-zeŋe bi-s'e-i.
go-FP be-PERF-1SG
'If you hadn't done this, I would have left long time ago.'
(Schneider 1937: 82)

\subsection*{21.9. Concessive clauses}

There is no specialized means to express the adverbial clause of concession. Other types of adverbial clauses such as the infinitival manner clause (21.1.4) often imply concessive meaning.

\section*{Chapter 22 \\ Coreference}

This chapter focuses on anaphoric phenomena, namely, pronominal anaphora (22.1), coreferential deletion (22.2), reflexivization (22.3), reciprocalization (22.4), and switch-reference (22.5).

\subsection*{22.1. Pronominal anaphora}

In the majority of cases both the matrix verb and the verb in the subordinate clause exhibit agreement with the subject argument, at least in person (for details see 15.1.1.2). The pronoun that corresponds to the subject is therefore easily dropped (22.2). However, pronouns in other functions are normally overtly present in the clause, and, under certain conditions, the subject pronoun is also overt.

\subsection*{22.1.1. \(3^{\text {rd }}\) Person Personal pronouns}

In this section we address the difference between the \(3^{\text {rd }}\) person Personal pronoun nua-ni 'he, she' and nua-ti 'they', on the one hand, and bue-ni 'he, she' and bue-ti 'they' on the other (see 9.1.1). Both types of pronouns refer only to human entities, but they play different roles in the process of maintaining coreference in the text. Both can be used cataphorically and anaphorically.

\subsection*{22.1.1.1. Pronouns nuani 'he, she', nuati 'they'}

The pronouns nua-ni/nua-ti commonly serve as deictic pronouns. The example below shows the deictic pronoun nua-ni followed by the anaphoric pronoun bue-ni while both refer to the same entity.
(1547) Nua-ni
he-3SG
kusige-we
anana
long.ago
buen-du-ni
he-DAT-3SG
min-tigi gele:-ni
me-LAT ask.PAST-3SG
bu-o:-mi.
give-PAST-1SG
'He has been asking for a knife from me for a long time, and I gave it to him.'

\subsection*{22.1.1.2. Pronouns bueni 'he, she', bueti 'they'}

On the other hand, the pronouns bue-ni/bue-ti are only used anaphorically, their two main functions being anaphora to a non-topical element, and to a new (replaced) topic. In both cases the antecedent must be introduced in the previous context. The topic is roughly defined as an element the proposition is about (see Chapter 24). Universally, the topic is known to correlate with the grammatical relation of the subject and to have a high degree of continuity in the discourse. In Udihe, anaphora to the continuous topic in the subject role is expressed by the coreferential omission of the subject (22.2.1). A non-continuous topic naturally cannot be omitted. This explains why the pronouns bue-ni/bue-ti, which only refer to a non-topic or a non-continuous topic, are generally the only (non-contrastive) Personal pronouns overtly present in the texts.

\subsection*{22.1.1.2.1. Anaphora to non-topical elements}

Anaphora to non-topical non-subject elements is possible with the pronouns bue-ni/bue-ti with regard to the animate antecedent, or (u)ti 'that' for the inanimate antecedent (22.1.2.2.1). In (1548) the anaphoric pronoun bue-ni functions as a non-subject argument or an adjunct, in (1549) as a possessive modifier.

\begin{tabular}{lllll} 
d. & \begin{tabular}{llll} 
Zeu-de & bie, & & j'eu-j'eu \\
food-FOC & be.PRES.HAB & what-what & kind-3SG \\
teu bie, & nada zali & tapči-de. & \\
all be.PRES.HAB seven barn full-FOC & \\
Bue-we-ni & tene & ei-mi & ise.
\end{tabular} \\
\begin{tabular}{llll} 
he-ACC-3SG & CONT & NEG-1SG & see
\end{tabular}
\end{tabular}
'There is food, there is everything, seven full barns. But I don't see him.'
\(\begin{array}{llll}\text { e. } & B i \quad \text { anda-i } & e-s i-n i & e m e-g i . \\ & \text { me friend-1SG } & \text { NEG-PAST-3SG } & \text { come-REP }\end{array}\)
Bue-ni gäundani etete-mi.
he-3SG without work-1SG
'My friend didn't come. I am working without him.'
(1549)
\begin{tabular}{lllll} 
a. \begin{tabular}{llll} 
Bue-ni zakta sile:-we-ni & pauza & \begin{tabular}{l} 
dili-ni \\
he-3SG millet \\
gruel-ACC-3SG
\end{tabular} \\
diga:-ni. & & & \\
eat.PAST-3SG & & \\
head-3SG
\end{tabular} \\
The roe head ate his millet gruel.' (K 140) & \\
b. & Petra gada:-ni & kusige-we & Iwana-du \\
Peter buy.PAST-3SG & knife-ACC & Ivan-DAT \\
bue-ni & zä:-ni-zi-ni. & & \\
he-3SG money-AL-INST-3SG & \\
'Peter bought Ivan a knife with his (Ivan's) money.'
\end{tabular}

\subsection*{22.1.1.2.2. Anaphora to replaced topic}

Examples (1550) represent the pronouns bue-ni/bue-ti referring to the replaced topic in the subject role. For example, in (1550a) the element that corresponds to the dropped subject of the first two clauses ('he') is the "old" topic replaced in the third clause Beje-ti loxo bu-o:-ti 'They gave him a saber'.

'Earlier, when they were counting themselves, they said: we are nine people.' (K 150)
c. Bu-je si give-IMP.2SG you bu:-i edeisini give-PRP when
uta-wa.
that-ACC
'Give it (to them). As soon as you give (it to them), they will burn it.'
d. Nenu-ni
younger.sibling-3SG
xaisi titigi-e-se.
also dress-PP-FOC
'After her brother left, she also got dressed.'
e. Bi neøu-i o-du ei-ni
me younger.sibling-1SG this-DAT NEG-3SG
bagdi bue-ni (*nua-ni) Bali-le
live he-3SG Khabarovsk-LOC
ñansule-ini.
study-3SG
'My younger brother (sister) does not live here, he (she) studies in Khabarovsk.'

The pronouns bue-ni/bue-ti may function as Reflexive pronouns when they refer to the new (replaced) topic (subject), but do not bear the subject role themselves. There are therefore in a complementary distribution with the regular Reflexive pronoun men-e (22.3.1) which is used only as a reflexive anaphor to the regular (non-replaced) topic. When the replaced topic is expressed by a lexical noun phrase (exi-ni 'the sister' in (1551)) and controls the possessive noun phrase within the same clause, the possessor is encoded by the pronoun bue-ni/bue-ti. However, the head of the Reflexive possessive noun phrase takes the regular Reflexive Possessive affixes.


\subsection*{22.1.2 Demonstrative pronouns}

Both the Demonstrative pronouns \(e i\) 'this' and (u)ti 'that' (9.4) can be used anaphorically, though their functions differ. These pronouns normally refer to inanimate objects and are the only way to refer back to an inanimate entity. Under certain conditions they may indicate living people as well. As mentioned in 9.4 , they either act as modifiers or are substantivized and function as immediate constituents of the clause.

\subsection*{22.1.2.1. The pronoun \(e i\) 'this'}

The anaphoric-deictic pronoun of the proximal deixis \(e i\) is uncommon in the anaphoric function, however it is not excluded completely.
22.1.2.1.1. Animate person reference

The anaphoric pronoun ei sometimes refers to an animate object. The examples below illustrate the anaphoric use of the pronoun \(e i\), which refers to living persons.
(1552) Ei getu-we-fi magi-kce-le:-mi ceze
this PL-ACC-1PL.IN kill-DES-PURP-SS true
emende kägampa-ni keje-n(i) ceze:-m(i)
witch liar-3SG word-3SG believe.PAST-1SG
m'ei-de.
only-FOC
'I only believed the words of the witch liar, and wanted to kill them.'
(K 183)

\subsection*{22.1.2.1.2. Situation reference}

The pronoun ei can refer to the situation rather than to the object or person.


\author{
b. Egdenke. Ei Kanda mafa sita-i interesting that Kanda old.man son-REF wa:-ni. \\ kill.PAST-3SG \\ 'Interesting. It is that the old man Kanda killed his son.' (K 191)
}

\subsection*{22.1.2.2. The pronoun (u)ti 'that'}

The pronoun (u)ti is the most frequent means of textual anaphora in Udihe. On its resumptive use see 22.1.3.1. In the attributive function it equally refers to animate and inanimate entities.


Below we address its use in the substantivized function.
22.1.2.2.1. Inanimate object reference

Anaphoric pronouns of the series (u)ti mostly refer to inanimate objects, for example:
(1555) a.
\begin{tabular}{llll} 
Bi & ta:mati & zueze-we & gada:-mi. \\
me last.year & table-ACC & buy.PAST-1SG \\
Uligdig'a & bi-s'e & uti. & \\
beautiful & be-PERF & that &
\end{tabular}
'Last year I bought a table. It was beautiful.'
b. Ei zugdi-we go:-zi wo:-ti,
this house-ACC long-INSTR make.PAST-3PL
uta-wa bi abuga-i wo:-ni.
that-ACC me father-1SG make.PAST-3SG
'It took a long time to build this house; my father built it.'
c. Uta-digi boxoso senmi gakpa:-ni that-ABL humpback arbalest shoot.PAST-3SG uta-wa agay-ki-ni. that-ACC step.over-PAST-3SG 'Then the humpback shot an arbalest and she stepped over it.' (K 173)

This pronoun in local case forms commonly serves as an anaphoric adverbial ('there'). The antecedent is found within the same clause (1556) or in the closest left context (1557).
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline (1556) a. & \begin{tabular}{l}
Komo \\
Komo xegie-le-ni. under-LOC \\
'Komo is th
\end{tabular} & \begin{tabular}{l}
\(u t a-d u\) \\
that-D \\
3SG \\
ere, un
\end{tabular} & AT & bi:-ni
be-3SG & & \begin{tabular}{l}
joxo \\
pot
\end{tabular} \\
\hline \multirow[t]{3}{*}{b.} & Sagdi big & xoto city & t'ankimiddle & \[
\begin{aligned}
& l e-n i \\
& - \text { LOC-3 }
\end{aligned}
\] & & sagli big \\
\hline & \begin{tabular}{l}
zugdi-le \\
house-LOC
\end{tabular} & & ila three & \begin{tabular}{l}
afikta \\
store
\end{tabular} & \begin{tabular}{l}
zugdi \\
house
\end{tabular} & \\
\hline & \[
u t a-l a
\] & bagd & ni & & Udie & wanza-ni. \\
\hline
\end{tabular}
'In the middle of a big city, in a large house, a three storied one, there lived the Udihe tsar.' ( K 138 )

'A hero is choosing a wife somewhere, and we are going there.' (K 171)

\subsection*{22.1.2.2.2. Animate person reference}

Although living persons are usually referred by the pronouns bue-ni/bue-ti in texts (22.1.1.2), the Demonstrative pronoun (u)ti 'that' also performs this function. Examples (1558) illustrate the use of the pronoun (u)ti referring to the animate object.
(1558) a. Uti aja-zi ise-si:-ni.
that good-INST see-IM-3SG
'He is looking well.'
b. Bi uti getu-we säta saki-nde-ze-mi, me that PL-ACC strong clap-INST-3SG
wa-zaya-i bi uti aziga-wa.
kill-FUT-1SG me that girl-ACC
'I will strike them strongly, I will kill those girls.'
The pronouns bue-ni/bue-ti and (u)ti are sometimes interchangeable. They are equally permissible when referring to animals, cf. (1560a) and (1560b).
(1559) Ei a:nta bie, uti/beje-ni zugdi-di-ni
this woman be.PRES.HAB that/he-3SG house-DAT-3SG
bagdi-mi.
live-1SG
'This is that woman, I live in her house.'
(1560) a. Bi činda dian-a-i-we-ni dogdi-e-mi me bird say-0-PRP-ACC-3SG hear-PAST-1SG bue-we-ni e-si: ise. he-ACC-3SG NEG-PAST.1SG see 'I heard a bird singing but did not see it.'
b. I:-le si imexi in'ei? Bi ali-de what-LOC you new dog.2SG me when-IND e-si: ise uta-wa. NEG-PAST.1SG see that-ACC 'Where is your new dog? I have never seen it.'

\subsection*{22.1.2.2.3. Situation reference}

The anaphoric pronoun (u)ti can refer to situations as well, that is, to a piece of the text. This is illustrated in (1561), where uti getu substitutes for human participants, and uti refers to an event.

22.1.2.3. Anaphoric adverbial expressions

Various forms of the Demonstrative (u)ti serve to link a clause to a preceding discourse. The Nominative form co-occurs with postpositions and adverbials, which gives rise to fixed adverbial expressions (1562a). Some oblique cases are used as regular discourse linkers (1562b). In addition, the stem (u)ta- is the base for several anaphoric adverbs and adjectives (1562c).


The adverbs uta-mi and ut'a-si seem to go back morphologically to verbal forms, the Infinitive, and the Perfective same-subject converb respectively, as well as the form uta-di-ge-si 'since then' (SK 463) with an unclear element -di-. This suggests that the demonstrative stem uta- may have had a verbal representation in the past. Uta-digi is the Ablative form of the anaphoric pronoun, while ute-fi is derived with the adjectival suffix \(-f i\) (6.4.1.3.1). The morphological form of the other anaphoric adverbs is not so transparent. Other anaphoric expressions derived from the same base by means of the participial forms of the copula verb 'be' are: ute bi: 'such', and ute bie 'such'.

Anaphorical expressions based on the Demonstrative ei are in (1563).
(1563)ei eigaykini (a-wa) caixi
'now' ei-ze
'now; as early as now' ei dexi
ei zulieni
'all the time'
'till now'
'formerly'

Examples:
\begin{tabular}{ll} 
Nua-ni & utebe-fi \\
he-3SG & so-ADJ \\
'He has such a voice.'
\end{tabular}
b. Bi-de xai(si) utelineni neni-ni me-FOC also then day-3SG
ŋепе:-mi.
go.PAST-3SG
'I left on the same day too.'
c. Utemi kono-mi.
therefore get.thin-1SG
'That is why I am getting thinner.'
d. Tinegi omo mafasa min-e-we
yesterday one old.man me-0-ACC
ute bede cemne:-ni.
that like deceive.PAST-3SG
'Yesterday an old man deceived me in the same way.'
e. Anana
bu
\(e \quad\)
bede wo:- \(i\)
\(b i-s ' e\).
before we this like do-PRP be-PERF
'Before, we used to do it like this.'

\subsection*{22.1.3. Correlatives}

Correlatives are not common in Udihe, and only appear in certain marginal constructions.

\subsection*{22.1.3.1. Correlative relative clause}

The correlative relative clause does not seem to be a native Udihe construction, and is used infrequently. The anaphoric pronoun (u)ti occurs in the superordinate clause.
\begin{tabular}{llll} 
Min-du & ise-wen-e-je & \(u t i\) \\
me-DAT & see-CAUS-0-IMP.2SG & that \\
ni:-we & kuti-we & wa:-ma-ni. & \\
man-ACC & tiger-ACC & kill.PP-ACC-3SG
\end{tabular}
'Show me the man who killed the tiger.'
b. Tineyi eme-i getu-we uti yesterday come-PRP PL-ACC that
getu-we bi ise:-mi.
PL-ACC me see.PAST-1SG
'I saw those who came yesterday.'

\subsection*{22.1.3.2. Equative correlatives}

Other correlative structures correspond semantically to equative constructions. The dependent clause predicate may be expressed with the Infinitive or, less frequently, the finite verb. Either the same interrogative pronoun is used both in the subordinate and superordinate clause (1566), or the interrogative pronoun of the dependent clause corresponds to the same morphological form of the anaphoric pronoun ( \(u\) )ti within the main clause (1567). On the finite correlative equative relative clause see 18.3.2.2.


\subsection*{22.2. Coreferential deletion}

Coreferential deletion is typical of the subject and less so of the direct object. Other grammatical relations undergo coreferential deletion only sporadically. A nominal head may undergo deletion under identity with the previously mentioned element, which results in headless structures. Verbs and verbal phrases undergo elliptical deletion.

\subsection*{22.2.1. Subject deletion}

\subsection*{22.2.1.1. Pronoun-drop}

Personal pronouns in the subject role are regularly omitted, while agreement affixes cross-reference their antecedent (15.1.1.2).
(1568) a. Soŋo-u.
cry-2PL
'You are crying.'
b. \(\quad I\) :-zi tamafi-zene-i?
what-INST pay-FUT-2SG
'With what will you pay?'
The subject is overt when it introduces a new participant within a presentational contraction (see 24.1.2.2), when it is anaphoric but corresponds to the new topic (22.1.1.2.2), or when it is contrastive (1569).
(1569) a. -Bi-ke e-zene-i menze. - Bi bi me-FOC NEG-FUT-1SG stay me me bi timana-ni bi menze-mi, bi me tomorrow-3SG me stay-1SG me digen-zene-i.
hide-FUT-1SG
'- I won't stay (at home). - Me, me, me, it is me who will stay tomorrow, I will hide.' (K 105)
b. Si, mamasa-ti, geh-i, si wa-h-i you wife-3PL bad-2SG you kill-PAST-2SG sita-fai.
child-REF.PL
'It's your fault, wife, you killed our son.' (SK 259)

\subsection*{22.2.1.2. Coreferential deletion across the conjoint clauses}

The Nominative subject controls coreferential deletion across the conjoint clause, which is one of its definitional properties (15.1.1). Section 18.1.2.1.3 provides examples of coordinated structures with a shared subject. Another example is presented below.
\(\begin{array}{llllll}\text { (1570) a. } & \text { E-zi } & \text { wanta to:-wo, } & \text { zegde-i } & \text { dele. } \\ & \text { NEG-IMP.2SG } & \text { touch fire-ACC } & \text { burn-2SG } & \text { FOC } \\ & \text { 'Don't touch the fire, (because) you will burn yourself.' } & \end{array}\)
b. Ca:i-la te-je, aka-i daga-i.
far-LOC sit-IMP.2SG back-REF burn-2SG 'Sit father (from the fire), (because) you will burn your back.' (SK 268)

When the subject of the first clause does not correspond to the agent argument of the second conjunct, but to the patient, passivization is the result. The subject coreference is so maintained and the second clause subject is coreferentially omitted, cf.:


Although coreferential omission of the direct object is acceptable (22.2.2), the referential null cannot be controlled by the direct object of the first conjunct. When the first clause object corresponds to the participant who performs the
action described by the second conjoint clause, the latter is causative. For further information on the Causative construction see 16.1.3. Consider (1572), where the direct object of the first clause corresponds to the causee argument of the second conjunct (encoded as the direct object Accusative noun phrase).
 wet-CAUS-FUT rain.
'I must escape, (otherwise) the rain will make (me) wet through.'
The opposite strategy to maintain subject coreference in this case is passivization of the second clause, cf.:
(1573) E-zi wende-le suese-we, aja

NEG-IMP.2SG throw-SING axe-ACC nice aisi-gi-u-zeŋe. mend-REP-PAS-FP
'Don't throw away the axe, it can be mended well.'

\subsection*{22.2.1.3. Subject deletion in the subordinate clause}

Elements other than subjects typically do not control coreferential null in the embedded clause, cf. the following example where the embedded clause subject corresponds to the oblique element enine-tigi: 'to my mother' within the matrix clause and must be replaced by the anaphoric pronoun uti 'that'.
```

(1574)Ge eni\etae-tigi: \etaene-ze-fi (u)ti
well mother-LAT.1SG go-SUBJ-1PL.IN that
ise-le(ge)-ni.
see-PURP-3SG
'Well, let us go to my mother so that she could have a look (at you).'

```

\subsection*{22.2.1.3.1. Complement and adverbial clause}

The coreference relationships between the elements of the superordinate clause and the subject of the non-finite subordinate clause are largely regulated by the switch-reference system (22.5). In same-subject converbial structures the overt presence of the subject in certain subordinate clauses is strictly ungrammatical, since the same-subject switch reference markers unambiguously indicate the identity of the subject participant. This also applies to those subordinate clauses where the morphological form of the predicate itself necessarily presupposes the same-subject relationship, namely subordinate clauses with the Infinitive (22.5.1.3). However, in same subject clauses based on participles (complement and adverbial clauses) the subject may be replaced by the Reflexive Nominative pronoun men-e, as shown in 22.2.1.3.

In different-subject subordinate clauses, the omission of the subject basically follows the same regularities as in superordinate clauses (22.2.1.1). Deletion of the subordinate subject is illustrated below for the complement clause (1575), and the adverbial purpose clause (1576). It occurs under coreference with previously mentioned participants, or certain elements of the superordinate clause (other than the subject).
```

(1575)a. Ge utebe ikteme-si:-we-ni uti alasi::
well so gnaw-IM.PRP-ACC-3SG that wait.PRP
'Well, so he is waiting (for him) gnawing.'
b. Casi:-we-ni xeti-si:-we-ni ei
tickle.PRP-ACC-3SG scratch-IM.PRP-ACC-3SG NEG
dogdi.
hear
'He does not hear (them) tickling and scratching (her).'

```
(1576) Ge enipe-tigi: jene-ze-fi enipe
    well mother-LAT.1SG go-SUBJ-1PL.IN mother
    ise-lege-ni.
    see-PURP-3SG
    'Well, let us go to my mother so that she can take a look.'

For most subordinate clauses there do not seem to be any restrictions on the potential controller. Certain special control structures of complement clauses
(subject control, object control, Dative control) are described in Chapter 20. The subject control ("same-subject") and Dative control clauses demonstrate obligatory subject drop under; however, in object control clauses the overt subject in the subordinate clause is not excluded:
\[
\begin{array}{ccll}
\text { (1577) Min-e-we } & \text { mudousi:-ni } \quad \text { bi } & \text { e-lege- } i & \text { w'ali. } \\
\text { me-0-ACC } & \text { persuade-3SG me } & \text { NEG-PURP-1SG } & \text { fight } \\
\text { 'He is persuading me not to fight.' } & &
\end{array}
\]

\subsection*{22.2.1.3.2. Relative clause}

Although the switch reference system is operative for the relative clauses as well, and the relative clause predicate takes the subject agreement affixes, the coreferential omission of the relative clause subject is considerably less frequent than for the other types of subordinate clause. In different-subject structures even the pronominal subject is normally overtly present.
\begin{tabular}{lllll} 
(1578) a. & \begin{tabular}{l} 
Oño-jo \\
write-IMP.2SG
\end{tabular}\(\quad\)\begin{tabular}{l} 
nimanku-we \\
tale-ACC
\end{tabular} & \begin{tabular}{l} 
bi \\
me
\end{tabular} & \begin{tabular}{l} 
nimasi:-we-i. \\
tell.PRP-ACC-1SG
\end{tabular} \\
& 'Write down the tale I am telling.'
\end{tabular}
b. Si tineni
you yesterday zauŋa-zi greenling-INST
'The name of the fish you caught yesterday is greenling.'

Only in same-subject structures must the relative clause subject be either absent from the clause or be replaced by the independent Reflexive pronoun men-e 'oneself'.

Gulini-li-e-ni go-INC-PAST-3SG
men-e bi-tigi.
REF-0 be.PRP-LAT.SS
'He started preparing to go to his own place, to the place where he used to be.' (K 141)
b. Sita-fai
child-REF.PL
ñoni:-fei.
can.PRP-SS.PL
'They taught their children what they could do themselves.'
(SK 648)

Note that this pronoun is never used in same-subject sentences where the head noun is also the subject of the superordinate clause.

\subsection*{22.2.2. Object deletion}

Object deletion is far less regular than deletion of the subject (22.2.1). It can be conditioned by the situation of speech, as in (1580), or motivated by an anaphoric relationship within the text, as in (1581). The coreferential dropping of the object pronoun is indicated by brackets in the translations.
(1580) a. Min-du ise-wen-e-je.
me-DAT see-CAUS-0-IMP.2SG
'Show (this) to me.'
b. Timana dogbo-ni zawa-zaya-i bi.
tomorrow night-3SG take-FUT-1SG me
'Tomorrow night I will catch (it).' (K 144)
\begin{tabular}{lll} 
a. & Zogbo-i & zawa-mi \\
harpoon-REF & zoyčili-e-ni. \\
take-INF & throw-PAST-3SG
\end{tabular}
b. Uta-digi jegdige that-ABL hero gune. Uta-digi isesi:-ni joxo kumtes'e see-3SG pot turn.PERF nientile:-ni jegdige. EV that-ABL open.PAST-3SG hero 'Then the hero sees that the pot had turned over. Then he opened it.' (K 150)
c. A:-iti nada kotoi-ziga. Nada silikte pursue-3PL seven bald-PL seven worm ede:-ti, ele ele buono-i. become.PAST-3PL soon soon catch-PRP
'Seven bald men pursued (her). They turned into seven worms, and nearly caught up (with her).'
d. Zandalafu eme-gi:-si-ni k'ainku

Zandalafu come-REP-PC-3SG brake do-lo-ni kepte-we-je. inside-LOC-3SG lie-CAUS-IMP.2SG
'When Zandalafu returns, put (him) in a (leather) brake.' (K 106)
22.2.3. Headless noun phrases

Most modifying expressions can be used either attributively or independently; in the latter case they form headless noun phrases. Headless noun phrases are
fairly frequent. They result from the omission of the head nominal and the substantivization of the modifier, which receives some head properties and inflects for case, number, and possession. The following modifiers occur in headless relative clauses: (i) adjectives; (ii) Cardinal numerals; (iii) pronominal adjectives (namely, demonstrative pronouns, examples can be found in Chapter 9 ); (iv) scalar quantifiers egdi 'many, much, a lot' and wac'a '(a) little, (a) few'; (v) the universal quantifier teu 'all', (11.2.2.1); (vi) Possessive pronouns (9.1.4); (vii) relative clauses (headless relative clauses are treated in 19.5).

The nominalized modifier takes the collective Plural bound word getu instead of the regular nominal Plural marker -ziga (4.1.2.2), for example baja getu 'the rich ones', uti getu 'those, they', egdi getu 'many (of them). The former is compatible with the adjectival Plural marker - \(\eta k u\), cf.: sagdä- \(\eta k u\)-getu 'the large ones' <large-PL-PL>. It inflects for case and possession in a regular way.

\subsection*{22.2.3.1. Coreferential omission of the head noun}

The omission of the head noun normally happens under identity with another noun overtly present within the same clause or in the closest left context. In (1582) we illustrate the headless noun phrase with the substantivized adjective, and in (1583) with the substantivized Possessive pronoun.
(1582)Kuŋgede-je sagdi cuanza-la ic'a-la uli anči.
pour-IMP.2SG large kettle-LOC small-LOC water no
'Pour from the big kettle, in the small one there is no water.'
a. \begin{tabular}{l} 
Si bi zugdi-du-i \\
you me house-DAT-2SG bagdi: \\
sinimi-le. \\
yours-LOC \\
'You live in my house, and I live in yours.'
\end{tabular} , b. Ei bi oloxi-yi:, ti: tene siniyi.

This me squirrel-AL.SG that CONT yours
'This is my squirrel, that is yours.'
In some cases the substantivized adjective is an apposition to the full noun phrase.

'In the forest they take all things they see, all beautiful ones, and call them talisman.' (SKX 312)

\subsection*{22.2.3.2. Situationally motivated omission of the head noun}

The omission of the head noun is often motivated not by a coreferential relationship, but by direct extralinguistic indication:
```

(1585) a. Sagdä-yku-we pug'a nodo-jo.
large-PL-ACC separately put-IMP.2SG
'Put the large ones apart (of potatoes).'
b. Bi abuga-i di:-me diga-zene-ni.
me father-1SG four-ACC eat-FUT-3SG
'My father will eat four (of them).'
c. Min-du gili-we bu-je
me-DAT cold-ACC give-IMP.2SG
'Give me some cold (water).'
d. Egdi-me diga!
much-ACC eat
'Eat a lot (of it).'
e. Ic'a- ${ }^{\prime} k u$-de bie sagdä- $\eta k u-d e$
small-PL-FOC be.PRES.HAB big-PL-FOC
bie.
be.PRES.HAB
'There are small ones and large ones as well (of potatoes).'
f. Meni-ni-di-fi bu-je-u.
REF-AL-DAT-REF.PL give-IMP-2PL
'Give (it) to yours (to your dogs).'
g. Meni-ŋi-fi dalusi-je-u.
REF-AL-REF.PL feed-IMP-2PL
'Feed yours (your dogs)'.

```
22.2.3.3. Non-coreferential omission of the head noun

The head of the noun phrase may be omitted when it is not referential but its identity can be unambiguously understood from a general knowledge of the world. The adjective may be adverbialized in this case.
\begin{tabular}{llllll} 
(1586)a & \(B i\) & \(e i-m i\) & ča:la & guači-we & \(b i\) \\
& me NEG-1SG & want & bitter-ACC & me
\end{tabular}


The independent use of the universal quantifier teu (11.2.2.1.2) is basically conditioned by the same principle.

\subsection*{22.2.4. Predicate dropping}

In (1587) we illustrate an ellipsis of the verb which is immediately recoverable from the linguistic context. The usual answer to a wh-question consists only of a questioned constituent in a fully inflected form (1587b). Examples (1588) present an instance of colloquial speech where all the verbs are omitted, so that the predicative functions seem to be fulfilled by adverbial expressions.
\begin{tabular}{lll} 
Uta-digi & nugi-e-ti & od'oko \\
that-ABL & go-PAST-3PL & old.man \\
mamaka & amä:za-li. & \\
old.woman & after-PROL
\end{tabular}
'Then they went out: the old man in front, the old woman behind.'
(K 158)
b. Si j'e-we wo-zono-i? Ugda-wa. you what-ACC make-FUT-2SG boat-ACC
(1588) a. \(E:\) zegdem guasa i:mi to:

INTER burnt bitch why fire
kä:-ni-de dili-de.
side-3SG-FOC far-FOC
'Hey, burnt bitch, why (are you) close to the fire, (go) further.'
(K 109)
b. Anda, kä:-la-da, kä:-la-da, friend near-LOC-FOC near-LOC-FOC gun-e-mi.
say-0-INF
'Friend, nearer (to the fire), nearer, he said.'

Verbs easily undergo ellipsis under negation, when the content verb is omitted and the negative verb alone bears the predicative function.
```

(1589)a. Si eme-ze\etae-i? E-ze\etae-i.
you come-FUT-2SG NEG-FUT-1SG
'Will you come? I won't.'
b. Safani:, e-ze\etae-i, o\etamo:-mi.
boring NEG-FUT-1SG forget.PAST-1SG
'Enough, I won't (tell), I forgot.'
c. E-ze\etae-i, gur-ki-ni.
NEG-FUT-1SG say-PAST-3SG
'I won't, he said.' (SKX 164)

```

\subsection*{22.3. Reflexivization}

Formally, reflexivization is expressed by means of the Reflexive pronoun men(9.2) or Reflexive Possessive affixes (4.1.4.2). Examples of these two cases are presented in sections 22.3.1.1 and 22.3.1.2 respectively. The ordinary personal pronouns and possessive affixes are not used in the reflexive function. There are no specialized verbal reflexive affixes. Reflexive markers indicate that the corresponding element is coreferential with another element, its antecedent. This element is unambiguously identified as the subject (cf. 15.1.1). The syntactic conditions on reflexivization are addressed in more detail in sections 22.3.2 and 22.3.3.

\subsection*{22.3.1. Reflexive elements}

\subsection*{22.3.1.1. Reflexive pronouns}

As mentioned in 9.2, Reflexive pronouns have Singular and Plural forms. Below we illustrate Reflexive pronouns in argument and adverbial positions in the Accusative (1590), the Locative (1591), the Instrumental (1592), and the Destinative (1593).

\begin{tabular}{ll}
\(B i\) & men-di-ne-mi \\
me REF-DAT-DEST-REF & ule:-we \\
meat-ACC
\end{tabular}
gada:-mi.
bring.PAST-1SG
'I bought some meat for myself.'
b. \(S u\)
you men-di-ne-fei
REF-DAT-DEST-PL
ga:zi-e-u?
buy-PAST-2PL
'What did you buy for yourself?'
j'e-we what-ACC


\subsection*{22.3.1.2. Possessive Reflexive affixes}

Coreference of the possessive modifier with the subject is encoded with Possessive Reflexive affixes (4.1.4.2). The modifier itself can be expressed by the Nominative form of the Reflexive pronoun men-e, as in examples (1594), although this is not obligatory (1595).
```

(1594)a. Bi men-e in'ei-zi \etaene:-mi.
me REF-0 dog-INST.REF go.PAST-1SG
'I was walking with my dog.'
b. Nua-ti men-e in'ei-zi-fi jene-iti.
he-3PL REF-0 dog-INST-REF.PL go-3PL
'They are walking with their dog.'
c. N''aula-ziga men-e abuga-fi
child-PL REF-0 father-REF.PL
muisi:-ti.
think-3PL
'Children are thinking about their (own) father.'

| (1595)a. | Bi tinemi | nodo:-mi | kusige-i. |
| :--- | :--- | :--- | :--- | :--- |
|  | me yesterday | lose.PAST-1SG | knife-REF |

    me yesterday lose.PAST-1SG knife-REF
    'I lost my knife yesterday.'
    b. N''aula-ziga in'ei-fi ko\etako-iti.
    child-PL dog-REF.PL beat-3PL
    'The boys beat their (own) dogs.'
    ```

\subsection*{22.3.2. Reflexive object}

The possessive reflexive noun phrase in the object function is not marked by the morphological Accusative; that is, the Nominative and the Accusative are homonymous. This seems to be conditioned by economy considerations: the reflexive marking on the object noun phrase unambiguously indicates that this noun phrase itself cannot correspond to the subject role. Therefore, there is no need to disambiguate between the subject and the direct object by means of a special morphological device. Cf. examples (a) with the reflexive non-Accusative object and (b) with the regular Accusative object.
```

(1596)

| a. | Nua-ni $($ men-e $)$ <br> he-3SG (REF-0) | sita-i | son-REF | ise:-ni. |
| :--- | :--- | :--- | :--- | :--- |
|  | see.PAST-3SG |  |  |  |

'He}\mp@subsup{\textrm{e}}{\textrm{i}}{\mathrm{ saw his}

```
b. Nua-ni sita-wa-ni ise:-ni.
he-3SG son-ACC-3SG
' \(\mathrm{He}_{\mathrm{i}}\) saw his \(\mathrm{s}_{\mathrm{j}}\) son.'
see.PAST-3SG
in'ei.
dog.REF
in'ei-we-ni.
dog-ACC-3SG
```

(1598) a. Bi kusige-i nodo:-mi.
me knife-REF lose. PAST-1SG 'I lost my knife.'
b. Bi si kusige-we-i nodo:-mi. me you knife-ACC-2SG lose.PAST-1SG 'I lost your knife.'

```

In a similar fashion, the participle within the embedded complement, adverbial or relative clause that is accusatively marked in different-subject sentences remains in the Nominative in the same-subject structures (See Chapters 19-21). The Destinative reflexive object is marked by the Destinative case.


\subsection*{22.3.3. Antecedent of the reflexive element}

As was mentioned in 15.1.1, the only controller of reflexivization within the clause is the subject. No other elements, including subjectoids, which exhibit certain subject properties (15.1.3), are able to become an antecedent of
reflexive relationship. Sentence (1600a) demonstrates that the reflexive element (the Reflexive Possessive affix -i in this case) cannot be controlled by the direct object (ni:-we), (1600b) demonstrates the same for the indirect object ( \(n e \eta u-d u-i\) ), ( 1600 c ) for the adverbial element (aziga 'girl'), and ( 1600 d ) for the passive agent (b'ata-du 'by the boy').
```

(1600)a. Nua-ni jagdugu-xi ni:-we
he-3SG spectacles-ADJ man-ACC
ise:-ni zugdi-du-i.
see.PAST-1SG house-DAT-REF
'He
b. Nua-ni xula zä:-wa ne\etau-du-i
he-3SG extra money-ACC younger.sibling-DAT-REF
bu-o:-ni zugdi-du-i.
give-PAST-1SG house-DAT-REF

```

```

    c. B'ata aziga zä: te:-ini zugdi-du-i.
    boy girl next sit-3SG house-DAT-REF
    'The boy }\mp@subsup{\textrm{i}}{\textrm{i}}{}\mathrm{ is sitting next to the girl}\mp@subsup{|}{j}{}\mathrm{ in his }\mp@subsup{\textrm{s}}{\textrm{j}/\textrm{j}}{}\mathrm{ , house.'
    d. *Oloxi b'ata-du men-e mäunda-zi:
    squirrel boy-DAT REF-0 gun-INST.REF
    wa-wo:-ni.
    kill-PAS.PAST-3SG
    'The squirrel was killed by the boy with his own gun.'
    ```

The following example demonstrates that reflexivization can be controlled by the pronominal Nominative subject that corresponds to the patient/theme argument in the Passive construction:
(1601) Nua-ni he-3SG
abuga-du-i father-DAT-REF

\author{
danči-w-o:-ni. curse-PAS-PAST-3SG
}
'He was cursed by his father.'
Linear precedence as such does not ensure reflexivization control, as in (1602) where the direct object \(\tilde{n}\) 'aula-wa 'child' does not trigger Reflexive affixes on the element abuga-ni 'his father', even when preceding it.
\[
\begin{array}{lll}
\text { (1602) Ei n'aula-wa bue-ni } & \text { abuga-ni } & \text { wa:-ni. } \\
\text { this child-ACC he-3SG } & \text { father-3SG } & \text { kill.PAST-3SG } \\
\text { 'This child was killed by his father.' } &
\end{array}
\]

However, in practice the subject almost always precedes the target of reflexivization.

The Reflexive element does not act as a subject itself, unless it is used in an emphatic function with the meaning 'independently, by itself' (9.2.1.1).
```

(1603)a. *Men-e nakta-wa ise:-mi.
REF-0 boar-ACC see.PAST-3SG
'He himself saw the boar.'
b. *Men-e sita-i nakta-wa ise:-mi.
REF-0 son-REF boar-ACC see.PAST-3SG

```
    'His son saw the boar.'

The subject antecedent of the reflexive element may be absent from the clause. In this case we either deal with an impersonal construction in which the reflexive has no syntactic antecedent at all (see 15.1.4.2), or the subject is dropped under coreference.
\begin{tabular}{|c|c|c|c|}
\hline (1604) a. & \begin{tabular}{l}
Men-e \\
REF-0 \\
'Give it to
\end{tabular} & in'ei-du-fei dog-DAT-REF.PL your dogs.' & \begin{tabular}{l}
bu-je. \\
give-IMP.2SG
\end{tabular} \\
\hline b. & \begin{tabular}{l}
Men-e \\
REF-0 \\
lojko-wo. \\
pot-ACC
\end{tabular} & kawa-tigi: tent-LAT.REF & \begin{tabular}{l}
neu-gi-e-ni \\
carry-REP-PAST-3SG
\end{tabular} \\
\hline
\end{tabular}

If the subject antecedent corresponds to an interrogative pronoun, it lacks a reference.
```

(1605)Xeune-mi je'u getu bu\etaie-fei
be.surprised-1SG who PL dead-REF.PL
eje-u-kte-iti.
float-CAUS-DIS-3PL
'I am surprised: who are those (people) who make their dead float
(down the river)?'(SK 1025)

```

\subsection*{22.3.3.1. Clause-bound control}

The relationship between the reflexive element and its antecedent holds within a simple clause. The reflexive element can be found in any position in the clause. The set of examples below shows that virtually any element within this domain can be controlled for reflexivization: a modifier noun phrase (1606a), the argument of an adjective (1606b), and an immediate constituent of the clause, which in this case corresponds to the Dative causee argument (1606c).

Sita-na-i child-PL-REF
begdi-le-ni
foot-LOC-3SG
'He made holes in the feet of his children.' (K 169)
b. Sita
child ami-mi
bejeku.
'The child looks like his father.'
c. Ei tege-we
this gown-ACC a:nta woman
xunazi-du-i sister-DAT-REF
uli-wen-ki-ni.
sew-CAUS-PAST-3SG
'The woman let her sister sew this dress.'
Examples (1607) show that the target of reflexivization can be found within the scope of the secondary predicate, as indicated by the bracketing.
```

(1607)a. Nua-ni gagda-i anči-du-ni bagdi-mi
he-3SG [friend-REF
ei-ni mute.
NEG-3SG can
'He can't live without his friend.'
b. Uti ñ'aula ami-mi bubei-zi
this child [father-REF similar-INST]
bagdi-gi-e-ni.
live-REP-PAST-3SG
'This child was born looking like his father.'

```

\subsection*{22.3.3.2. Control across clauses}

The superordinate clause subject controls the reflexivization of the subordinate clause subject, as illustrated in (1608). In (1608a), the superordinate null subject is the antecedent of the Possessive suffix on the subject noun phrase within the subordinate adverbial purpose clause (nemu-mi). In (1608b) the superordinate subject wayba-yi-ni 'the tortoise' controls the Reflexive Possessive suffix on the relative subordinate clause subject oloxi-yi: (< oloxi-ŋi-i) 'its squirrel'.
```

(1608)a. J'e-we-de zawa-ini ne\etau-mi
what-ACC-IND take-3SG [younger.sibling-REF
e-lege-ni tagda-gi.
NEG-PURP-3SG recognize-REP]
'She takes everything so that her brother does not recognize her.'
(K 167)

```


These examples involve dependent clauses based on non-finite verbal forms. In (1609) we show that the same applies to finite clauses. In (1609a) the finite subordinate clause subject b'ata- \(\eta i\) : 'her son' stands in the reflexive relationship to the matrix clause (null) subject. In (1609b) the two clauses are conjoint, while (1609c) is an example of the finite correlative construction.
\begin{tabular}{lllll} 
Ise-si:-ni, & b'ata- \(\boldsymbol{\eta i}:\) & omo & aziga & gumu \\
see-IM-3SG & [boy-AL.REF & one & girl & EV
\end{tabular}
eme-ini.
come-3SG]
'She sees that her son and a girl are coming.'
\begin{tabular}{lllll} 
b. & Xeke & tipme:-ni & xegi, & sogdö- \(i\) \\
& suddenly & fall.PAST-3SG & down & back-REF
\end{tabular}
bukta-bukta-da.
break-break-FOC
'Suddenly he fell down and broke his back.'
c. Men-e j'e-le

REF-0 what-LOC be.sick.PRP be-PP-3SG
uta-la ni--du begdi-le-ni
that-LOC man-DAT leg-LOC-3SG
yala-la-ni aula-way-ki-ni.
arm-LOC-3SG swell-CAUS-PAST-3SG
'Where he felt pain himself, there he caused a tumor on man's arms and legs.' (SK 660)

The opposite relationship is ruled out. In (1610a) the null subject of the embedded clause is referred to by Possessive affixes on the superordinate clause subject (mama-ni ami-ni mamasa-ni 'his mother, his father, and his wife'). However, this does not trigger reflexivization: non-reflexive Possessives must be present, while Reflexive Possessives in such a case would be ungrammatical. Example (1610b) demonstrates that the subordinate subject cannot control Reflexive affixes on the superordinate subject even if it precedes it linearly, that is why the non-reflexive Possessive affix is used (sita-ni 'her son').


Crucially, elements of the subordinate clause other than its subject are not controlled for reflexivization by the superordinate clause subject. In other words, the relationship between the antecedent and the reflexive element cannot cross the subject. For example, in (1611a) the element of the subordinate clause nua-ma-ni 'him' is not reflexive, although it is coreferential with the superordinate clause subject \(\tilde{n}\) 'aula 'child'. The same holds for (1611b).
```

(1611)a. \tilde{N'aula muisi:-ni abuga-ni nua-ma-ni}
child think-3SG [father-3SG he-ACC-3S
men-zi geje xebu-ze
REF-INST together take-SUBJ
wakca-na-mi gun-e-ini.
hunt-DIR-INF] say-0-3SG
'The child}\mathrm{ thinks that the father will take him}\mp@subsup{m}{i}{}\mathrm{ hunting.'
b. Mamasa-na-tigi-ni diga\eta-ki-ni e-le-ti
wife-PL-LAT-3SG say-PAST-3SG NEG-PURP-3PL
$$
\begin{array} { l l l } { \text { xenisi } } & { \text { nua-ni } } & { \text { xokto-wo-ni.} } \\ { \text { step } } & { \text { he-3SG } } & { \text { footstep-ACC-3SG} } \end{array}
$$
'He told his wives not to step on his footsteps.' (SKX 316)

```

The elements of the subordinate clause other than its subject are controlled by the subject of the clause within which they occur, as shown in (1612). The reflexive element in (1612a) is aka-i 'his (self's) back', while its antecedent is a subject of the subordinate purpose clause od'o 'grandfather'. In same-subject sentences the reflexive elements found in the superordinate and the subordinate clause naturally have the same antecedent (1613).
```

(1612)

| Egdi-we | to: | ilasi-je | od'o |
| :--- | :--- | :--- | :--- |
| much-ACC | fire | kindle-IMP.2SG | [grandfather |

aka-i siesi-lege-ni.
back-REF warm-PURP-3SG]
'Make a lot of fire so that the grandfather warms his back.' (K 171)
b. Su: ai-le-i gakpa-gi: dexi
[sun seat-LOC-REF shine-REP.PRP till]
nua-ini.
sleep-3SG
'She sleeps till the sun again starts shining in its seat.'
(1613) Men-e käna-i wa:-mi kä:-la-ni
[REF-0 deer-REF kill.PP-SS] side-LOC-3SG
te:-ini.
sit-3SG
' $\mathrm{He}_{\mathrm{i}}$ is sitting near the deer he $\mathrm{i}_{\mathrm{i}}$ killed.'

```

In the object control sentence (1614) reflexivization is controlled by the zero subject of the subordinate clause. Its antecedent is the direct object of the matrix clause (Si Säya-wa).
(1614) Ute bede
wadi-wey-ki-ni
stop-CAUS-PAST-3SG
anda-i tai-wasi-kce-i-we-ni.
Säna-wa
[ \(\varnothing\) tax-REF collect-DIST-DUR-PRP-ACC-3SG]
San-ACC
'In such way Pakula; made Si San \(_{j}\) to stop collecting his \({ }_{\star \cdot j}\) taxes.'

\subsection*{22.3.3.3. Split antecedents}

Udihe allows for "split antecedents" for reflexives. In this case there is only partial identity between the subject referent and the reflexive element, namely, they stand in an inclusive relationship to each other. In the example below, the reflexive possessor is semantically Plural, as is indicated by the Plural reflexive element -fei. The subject is in the Singular, but semantically its referent is part of the set denoted by the reflexive element. The second member of the set is denoted by an Instrumental noun phrase Ajaula-zi.

\footnotetext{
Kičo Ajaula-zi sono-ti guas'a-mi-fei
Kičo Ajaula-INST cry-3PL bitch-AL-REF.PL nanta-mi.
sorry-INF
'Kičo with Ajaula cried, feeling sorry for their bitch.' (SKX 212)
}

A similar case is illustrated in (1616), where the subject participant is only one of two referents indicated by the Reflexive Plural marker. In principle, the Possessive marker \(-f i\) in b'ata-yi-fi 'our son' can be understood either as a Reflexive affix or as a \(1^{\text {st }}\) person Plural inclusive Possessive affix, since these markers are homonymous. The lack of the Accusative case inflection, however, rather implies the first interpretation (see 22.3.2 on the lack of the object marker on reflexive objects).
(1616) I:-du what-DAT
ja-la:-mi
PROV-PURP-SS
'Why do you want to kill our only son?' (K 190)
b'ata-yi-fi
boy-AL-1PL.IN
\begin{tabular}{ll} 
wa-kca-i & si \\
kill-DES-2SG & you
\end{tabular}
uta-wa?
that-ACC

Note that the Udihe switch reference system, which is partly based on reflexives, also marks partial identity of referents as coreferentiality (see 22.2.5).

\subsection*{22.4. Reciprocalization}

By reciprocal we mean those constructions in which each of the participants denoted by the subject noun phrase corresponds to two different semantic roles (for example, agent and patient, agent and recipient, etc). In Udihe even the oblique object and many adjuncts can reciprocalize: reciprocalization is conditioned by semantic rather than syntactic constraints. The first antecedent of the reciprocal, however, is always the subject participant.

Reciprocal construction may involve a voice-driven verbal derivation, marked with the suffix -masi- (8.2.1.1). Such "morphological" reciprocals were addressed in section 16.1.5. In addition, the reciprocal meaning can be expressed lexico-syntactically, by means of Reciprocal pronouns (22.4.1) or syntactic reduplication (22.4.2), but without morphological changes in the verb. The lexical reciprocal elements overtly indicate which non-subject participant is involved in the reciprocal relationship. Lexico-syntactic reciprocalization does not seem to affect the valency of the verb, while morphological reciprocalization is often accompanied by a valency reduction (detransitivization).

\subsection*{22.4.1. Constructions with Reciprocal pronouns}

\subsection*{22.4.1.1. Reciprocal object}

The reciprocal meaning can be expressed exclusively by Reciprocal pronouns when the two semantic roles that correspond to these pronouns are the agent and the patient. Thus the Reciprocal pronoun corresponds to the direct object role. The object Reciprocal pronouns are meffe)i or its reduplicated variant meffe)i-mef(e)i 'each other' (9.3). The subject may be the Plural noun (1617), or the collective Singular noun (1618). In the latter case the antecedent is in the Singular. The verb always takes Plural agreement affixes. The construction is ambiguous because it can refer to any number of participants larger than one.

(1618) Ei zugdi-ŋke mefei teu aju-iti.
this house-N REC.ACC.PL all love-3PL 'In this family everybody loves one another.'

Reciprocalization of an oblique object may sometimes be expressed by the Nominative form of the Reciprocal pronoun, and this is not morphologically marked on the verb. At out disposal we only have examples where an Instrumental (1619) or an Ablative (1620) object is reciprocalized.
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{) a .} & Nua-ti & \multicolumn{3}{|l|}{men-e-men-e jele-iti.} \\
\hline & he-3PL & REC-0-REC-0 & be.afraid & \\
\hline & \multicolumn{4}{|l|}{'They are afraid of each other.'} \\
\hline \multirow[t]{2}{*}{b.} & Nua-ti & men-e-men-e & zima-mi & xuli:-ti. \\
\hline & he-3PL & REC-0-REC-0 & visit-INF & \\
\hline
\end{tabular}
(1620)

Men-e-men-e
REC-0-REC-0
separate-INC-PAST-3PL
'They started separating from each other.' (Schneider 1937: 28)

\subsection*{22.4.1.2. Reciprocal modifier}

When the coreferential relationship holds not between the subject and the immediate constituent of the clause, but between the subject and the possessor, this is expressed by the Nominative Reciprocal pronoun in the modifier function (9.3). There do not seem to be any syntactic restrictions on the role of the head noun within the clause: it can correspond either to the argument or to the adjunct. Remarkably, the Nominative Reciprocal pronoun is morphologically identical to the repeated form of the Reflexive pronoun men-e-men-e. However, in the reciprocal construction the head noun is not marked by any Possessive suffixes. This makes it different from the Reflexive Possessive Plural construction, which requires a reflexive possessive marking on the head noun. Cf. (1621a) with a reflexive reading and (1621b) with a reciprocal reading.
```

(1621)a. Men-e-men-e xokto-zi-fi
REF-0-REF-0 road-INST-REF.PL
\etaene-kte-gi-e-ti.
go-DIST-REP-PAST-3PL
'They went on along their road.'
b. Men-e-men-e xokto-zi jene-kte-gi-e-ti.
REC-0-REC-0 road-INST go-DIST-REP-PAST-3PL
'They went back on each other's road.'

```

For distributive reflexives (see 9.2.1.1) the possessive marking on the head is optional, cf.:
\[
\begin{array}{llll}
\text { a. } \begin{array}{ll}
\text { Men-e-men-e sina-wa } & \text { xeli }
\end{array} \text { xeli }  \tag{1622}\\
\text { REF-0-REF-0 burden.frame-ACC } & \text { quick quick }
\end{array}
\]

This fact may indicate that the Reciprocal pronoun and sometimes the distributive Reflexive pronoun function as an adverbial rather than a possessor within a possessive noun phrase.

In such reciprocal constructions the verb exhibits Plural agreement.
\begin{tabular}{llll} 
(1623) a. & \begin{tabular}{l} 
Mamaka \\
old.man
\end{tabular} & \begin{tabular}{l} 
mafasa \\
old.woman
\end{tabular} & \begin{tabular}{l} 
men-e-men-e \\
REF-0-REF-0
\end{tabular} \\
& \(\tilde{n} u k t e-l e\) & kitiga-si.-ti.
\end{tabular}
b. Men-e-men-e kusige-we gele-masi--ti.
REF-0-REF-0 knife-ACC ask-REC-3PL
'They ask for each other's knife.'

\subsection*{22.4.2. Constructions with reduplications}

These constructions are available when the reciprocal relationship holds between the subject and an adverbial element that would normally be expressed with a postpositional noun phrase. The verb shows Plural agreement, and the plurality of the subject is expressed either morphologically or through coordination. Reciprocalization is encoded by the reduplication of the postposition, cf. (1624a) and (1624b):
a.
\begin{tabular}{llll} 
B'ata aziga & zä: & te:-ini. \\
boy & girl & next & sit-3SG
\end{tabular}
\begin{tabular}{lllll} 
b. & \begin{tabular}{lll} 
B'ata & aziga & zä: \\
boy & girl & next
\end{tabular} & next & te:-iti. \\
sit-3PL
\end{tabular}
'The boy and the girl sit next to each other.'
The reduplicated postposition is here the only Reciprocal marker. In addition, it specifies which non-subject participant is involved in the reciprocal relation.

\subsection*{22.4.2.1. Reduplication of postpositions}

The reduplicated reciprocal construction is, of course, subject to semantic restrictions, but generally is available with all or most postpositions.
(1625) a. Amä:ta after after run-3PL ñaula-ziga.
'Children are running after each other.'


\subsection*{22.4.2.2. Reduplication of other elements}

The repetitive reciprocal construction is also possible when the subject is coreferential with the argument of an adjective (such as those described in 6.3.2) or an adverb; in this case it requires its reduplication.
(1626) a. Xa:-mule bejeku bejeku bi:-ni.
relative-N similar similar be-3SG
'Relatives look like each other.'
b. Pazi pazi bagdi-li-e-ti.
separately separately live-INC-PAST-3PL
'They started living separately from each other.' (SK 463)
The example below illustrates highly individualized expressions which involve the reduplication of a noun.
```

(1627) a. Zolo kakt'a kakt'a gekti-wen-e-mi.
stone half half freeze-CAUS-0-1SG
'I make stones to freeze against one another.' (K 124)
b. Bi abuga-i zuala zuala-zi ima:-wa
me father-1SG ski ski-INST snow-ACC
giugi:-ni.
shake.off-3SG
'My father is shaking the snow off by (beating) the skis against
one another.'
c. Ule:-we geje geje obolo-zono-fi.
meat-ACC together together divide-FUT-1PL.IN

```
    'Let us divide the meat equally.'
d. \(b u:-z i \quad\) k'ä-fa \(\quad\) k'ä-fa sikti-si-mi
flint-INST edge-ACC edge-ACC hit-IM-INF 'to hit flints against one another' (SK 470)
e. Wac'a wac'a okto-wo jeugie-mi tu:
little little medicine-ACC bring-INF all
okto-si-e-ni.
medicine-V-PAST-3SG
'He brought a little of each medicine and cured (him) with them all.' (SK 214)
\begin{tabular}{lllll} 
f. & Sagdi \(\quad\) bu:-we & b'a & ut'as(i) & zolo-zi \\
big \(\quad\) flint-ACC find & then & stone-INST \\
zolo-zi & kakta-sie, & nekce-iti. & \\
stone-INST \(\quad\) split-IM.PRP & keep-3PL & \\
'When they find a big flint, they split it (hitting) & \\
another and keep it.'
\end{tabular}

Finally, clausal reduplication is also possible when the verb express a naturally reciprocal situation.
\begin{tabular}{lllll}
Ni & maje & ni & maje & ana-masi:-ti. \\
who & strong & who & strong & push-REC-3PL
\end{tabular}
'They push each other (trying to see) who is stronger.' (SKX 302)
b. Gusi-ti b'ata-ma sita-ziga ni ete-i
play-3PL boy-ADJ child-PL who win-PRP
\(n i\) ete-i.
who win-PRP
'The boys play with each other (trying to see) who will win.'
(SKX 302)

\subsection*{22.5. Switch reference}

As in canonical switch-reference systems, in some contexts Udihe opposes the same- subject (SS) markers and the different-subject (DS) markers. Same-subject markers indicate the coreference of two subjects. Functionally, they appear to maintain the topic, that is, the central participant controlling zero-anaphora in a given fragment of text ("topic continuity"). Different-subject markers indicate a lack of coreference between two subjects, and the lack of topic continuity. The ability to control same-subject switch reference markers is the most important grammatical property for identifying the subject (see 15.1.1), and is not shared by any other grammatical relations. As in most languages, the switch reference system in Udihe works for all persons in spite of the fact that it is clearly redundant for the \(1^{\text {st }}\) and \(2^{\text {nd }}\) person singular.

The same-subject/different-subject relation in Udihe holds between the superordinate clause and the non-finite subordinate clause (the relative clause (Chapter 19), the complement clause (Chapter 20), and the adverbial clause (Chapter 21). However it does not hold between two independent clauses or between the main clause and the finite subordinate clause. It is always the subordinate clause that is marked for same-subject/different-subject, while the main clause is the controlling one. When a subordinate clause is syntactically embedded in another subordinate clause, the switch-reference relationship in it is always controlled by the immediately super-ordinate clause. For example, in (1629) the same-subject marker on kuzi-ge-si 'having bent down' indicates the cofererence with the subject of the immediately superordinate clause 'Ivan picked something up', which is in its turn embedded in the main clause 'I saw'. Example (1629b) demonstrates "three-level" same-subject relationship.
```

(1629) a. Bi ise:-mi
me see.PAST-1SG
j'e-we-ke zawa-i-wa-ni.
what-ACC-IND take-PRP-ACC-3SG]
'I saw that Ivan bent down and picked something up.'
b. Men-e mala-za\etaa-i bodo-si-mi
[[REF-0 finish-FP-SS] count-IM-INF]
olokto:-ni.
cook.PAST-3SG

```
    'He cooked (it) counting what he himself would finish (eat).' (K 129)

On the surface expression of the subject in subordinate clauses see 22.2.1.3.

\subsection*{22.5.1. Encoding of switch reference}

In Udihe, there are two strategies indicating the same-subject, depending on the clause type. Both of these strategies are attested cross-linguistically (Haiman and Munro 1983).

\subsection*{22.5.1.1. The "syncretic" strategy}

The same-subject can be indicated by a syncretic portmanteau morph that encodes not only the same-subject but also the function of the subordinate clause. This morpheme is different from the morpheme used in the corresponding type of different-subject clause. Here the mere choice of a particular switch-reference morpheme indicates the type of syntactic relation. In addition, the different-subject relationship is encoded by the subject agreement marker.

The syncretic strategy is used in adverbial clauses with Conditional Converbs (7.6.2.4) and Perfective Converbs (7.6.2.3). In (1630) we illustrate the switch-reference contrast for the Conditional Converb: example (1630a) illustrates the same-subject, example (1630b) the different-subject. In (1631) the Perfective Converb is represented by both the same-subject form (metu-ge-si 'having finished') and the different-subject form (a:da bi:-si-ni 'after it is ready').
\begin{tabular}{clll} 
(1630)a. & \begin{tabular}{l} 
'Ai-we
\end{tabular}\(\quad\) umi-lie & jexe-zene-ti. \\
& [vodka-ACC \(\quad\) drink-CC.SS.PL] & sing-FUT-3PL
\end{tabular}
```

(1631)Gusi-mi metu-ge-si
[play-INF finish-PERF-PC.SS]
olokto-gi:-ni olokto-mi
cook-REP-3SG cook-INF ready be-PC-3SG
'Having finished playing he cooks the lard to a turn.'

```

\subsection*{22.5.1.2 The "reflexive" strategy}

This strategy is used in all types of clauses with active participles (7.6.1.1), as well as in adverbial clauses with Imperfective Converbs (7.6.2.2) and Purposive Converbs (7.6.2.1). The same morph marks the clause type in clauses with the different-subject and the same-subject. It is obligatorily followed by a switch-reference affix, which is either a usual agreement Possessive suffix (4.1.4.1) for different-subject, or a Possessive Reflexive suffix for same-subject: \(-i\) or \(-m i\) (variations are conditioned by the historical stem type, see 4.1.4.2) for Singular and -f(e)i for Plural subject. The Singular same-subject marker \(-i\) is employed in Present and Future Participles and in the Imperfective Converb. The Singular same-subject marker \(-m i\) is employed in Past Participles and Purposive Converbs. In same-subject relative clauses of a certain type (19.1.1) the personal affix on the participle can be completely absent.

In (1632) we illustrate the switch-reference contrast for the adverbial clause with an Imperfective Converb, and in (1633) and (1634) for the adverbial purpose clause.

(1633)a. Aziga aja tege-we teti-gi:-ni
girl good gown-ACC dress-REP.PRP-3SG
alagdig'a bi-lege-mi.
[pretty be-PURP-SS]
'The girl dresses up nicely in order to be pretty.'
b. Aziga aja tege-we teti-gi:-ni b'ata
girl good gown-ACC dress-REP.PRP-3SG [boy aju-lege-ni.
love-PURP.3SG]
'The girl dresses up nicely in order for the boy to love (her).'
(1634) a. Sa:-laga-mi
tani-ja
\(a-w a\).
[learn-PURP-SS]
read-IMP.2SG
that-ACC
'Read this to learn it.'
b. Bi sa:-laga-i
tani-ja read-IMP.2SG
[me learn-PURP-1SG]
'Read this so that I can learn it.'
\(a-w a\). that-ACC
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{3}{*}{b.} & Nua-ni & telunu-si-e-ni & Moskva-tigi \\
\hline & he-3SG & story-V-PAST-3SG & [Moscow-LAT \\
\hline & \begin{tabular}{l}
xuli-e-mi. \\
go-PP-SS]
\end{tabular} & & \\
\hline & \({ }^{\prime} \mathrm{He} \mathrm{e}_{\text {s aid }}\) & he \({ }_{i}\) had traveled to & scow.' \\
\hline
\end{tabular}
\(\begin{array}{lllll}\text { (1636) a. } & \text { Ni: te:-ni } & \text { nuqui } & \text { in'ei-we } & \text { wa:-ni } \\ & \text { man sit.PAST-3SG } & \text { [wolf } & \text { dog-ACC } & \text { kill.PP-3SG }\end{array}\)
kä:-la-ni.
side-LOC-3SG]
'The man sat near the dog killed by the wolf.'
b. Ni: te:-ni men-e in'ei
man sit.PAST-3SG REF-0 [dog.REF
wa:-mi kä:-la-ni.
kill.PP-3SG side-LOC-3SG]
'The man \({ }_{i}\) sat near the dog that he \(\mathrm{e}_{\mathrm{i}}\) killed.'
\(\begin{array}{llll}\text { c. } & \begin{array}{lll}\text { Bi oloxi } & \text { wa:-mi } & \text { anda-du- } i \\ \text { [me squirrel } & \text { kill.PP-SS] } & \text { friend-DAT-REF }\end{array} & \text { teu } \\ & \text { all }\end{array}\)
bu-o:-mi.
give-PAST-1SG
'I gave all the squirrels I killed to my friend.'
Switch-reference for these types of clauses is therefore based on the reflexive marking, and the same-subject relation can be viewed historically as a particular instance of reflexivization. Reflexives, as distinct from the switch reference system, usually encode coreference rather than its absence (Comrie 1983: 22); in the pattern in question both coreference and non-coreference of two subjects are expressed, by means of different affixes.

\subsection*{22.5.1.3. Infinitival clauses}

The infinitival subordinate clauses, complement clause (20.1.1, 20.2.1) and adverbial clause (21.1), do not allow a different-subject relationship (except for clauses controlled by the Dative experiencer, see 20.1.1.3, and certain cases of an inalienable possessive relationship between two subjects, see 15.1.1.6.2). So the corresponding different-subject clauses do not exist. The Infinitive (7.6.3.1.1) itself is derived from the verbal stem with a suffix -mi, which seems to go back to the Reflexive (same-subject) Singular affix; so, at least historically, it is associated with the "reflexive strategy" (22.5.1.2). The Infinitive can be viewed historically as a reflexive form of a bare verbal stem. Since a specialized Plural suffix is missing, the Infinitive can encode coreference for both Singular and Plural subjects. Examples for Singular (1637) and Plural (1638) subjects are:


\subsection*{22.5.1.4. Summary}

The overall formal system of switch-reference is presented below.
(1639) Switch-reference system
predicate of the SS SG SS PL DS subordinate clause
"Syncretic" strategy
Perfective Converb -si -du-si -isi- + Possessive

Conditional Converb -lie
-li
-nA:
"Reflexive" strategy
Present and Future
\begin{tabular}{llll} 
Participles & \(-i\) & \(-f e i\) & Possessive \\
Past Participles & \(-m i\) & \(-f e i\) & Possessive \\
Imperfective Converb & \(-i\) & \(-f e i\) & Possessive \\
Purposive Converb & \(-m i\) & \(-f e i\) & Possessive \\
Infinitive & \(-m i\) & \(-m i\) & -
\end{tabular}
22.5.2. Number mismatches

As was shown in 22.5 .1 , the switch-reference system is largely based on Reflexives. As is well known, cross-linguistically the system of Reflexives tends to be more reduced in comparison with the non-reflexive personal
system. Since Reflexive merely indicate that one participant is coreferential with another participant (usually the subject), opposition in person and number is redundant. In the same way the switch-reference markers specify a certain coreferential relationship between the clauses in the discourse sequence: they show that two events share the same subject participant, and therefore do not need to be specialized in person and number.

In Udihe, neither Reflexives nor switch reference markers are opposed for different persons, but they demonstrate the opposition between Singular and Plural. Thus the particular property of Udihe is the consistent distinction between the Singular and Plural in all same-subject forms. A question arises concerning how the language treats the ambiguous cases of semantic "inclusion", when a subject participant of one clause is a member of a group of participants that correspond to the subject of the second clause. Such situations can be understood cross-linguistically either as same-subject or as different-subject.

The possible number mismatches relevant for Udihe are schematized in (1640) and certain cases are studied below.
```

(1640) "inclusive" subject
we (IN)
we (EX)
you (PL)
they

```
```

"subset" subject

```
"subset" subject
    me, you (SG, PL), he/they, we (EX)
    me, you (SG, PL), he/they, we (EX)
    me, he/they
    me, he/they
    you (SG), he/they
    you (SG), he/they
    he/they
```

    he/they
    ```

Although our material is not complete, it seems that all cases of semantic inclusion between two subjects must be marked by same-subject switch reference markers on the subordinate clause predicate. Recall from section 15.1.1.6.2 that the part-whole relationship between two subjects is encoded as same-subject in the infinitival clauses. Unfortunately, we do not have evidence to show how it is marked in other types of dependent clauses.

\subsection*{22.5.2.1. The \(3^{\text {rd }}\) person number mismatches}

With \(3^{\text {rd }}\) person subjects, when the subject of one subordinate clause semantically includes the subject of the superordinate clause, this is encoded by a same-subject Plural marker on the subordinate clause predicate. In (1641) the subordinate clause subject is in the Plural and the superordinate clause subject is in the Singular. The Plural here indicates rather the number of the subordinate clause subject than that of the main clause subject, that is, it refers to the actual number of participants of the corresponding clause, but does not indicate coreference of the two subjects in a strict sense.
(1641) a. Tima-dule
te:-gi-en-zi-fi
[tomorrow-LOC get.up-REP-PAST-INST-SS.PL]
sul'ai dian-a-ini.
fox speak-0-3SG
'The next day after they got up the fox spoke.' (K 156)
b. Diga-si-mi [eat-IM-INF
metu-o:n-zi-fi
sul'ai
dian-a-li-e-ni.
speak-0-INC-PAST-3SG
'After they finished eating the fox started speaking.'
c. Diga-laga-fi
ei-de
ge:-ne.
[eat-PURP-SS.PL]
NEG-FOC ask-DIR
'He does not go to ask for food for them to eat.'
d. Baja mafa-wa sauli-masi-le-fi
rich old.man-ACC have.feast-REC-PURP-SS.PL
gele:-ni.
invite.PAST-3SG
'He invited the rich man to have a feast together.'
Similarly, partial coreference may be indicated by an infinitival form, cf.:
\begin{tabular}{|c|c|c|c|c|c|}
\hline Bagdi-mi & bagdi-mi & ti & emne & \(u t i\) & loxo \\
\hline [live-INF & live-INF] & hat & ce & at & shaggy \\
\hline in'ei mafa-ni dog husband & \[
3 S G
\] & ni. & & & \\
\hline hey lived, & d on & usb & of the & , & \\
\hline
\end{tabular}

The reverse case is when the main clause subject is in the Plural and the subordinate clause subject is in the Singular and corresponds to one of several referents of the superordinate clause subject. In such a case the subordinate clause is marked as same-subject, as in (1643).
(1643) Timana-ni gulin-ki-ti sul'ai-ni:
tomorrow-3SG leave-PAST-3PL [fox-AL.REF
unkäla-na:
carry-PC.SS]
'The next day they left while he was carrying the fox.' (K 154)

\subsection*{22.5.2.2. The \(1^{5 t}\) and \(2^{n d}\) person number mismatches}

In the following example the main clause subject is the \(1^{\text {st }}\) person Plural Inclusive, while the embedded clause subject is \(2^{\text {nd }}\) person Singular, so it is
included in the reference of the main clause subject. The embedded clause is marked by the same-subject switch-reference marker.
```

(1644)Si min-e-we diga-za-mi gu-mi
[you me-0-ACC eat-SUBJ-1SG say-INF]
\tilde{o}:xan-du gusi-ze-fi minti.
first-DAT play-SUBJ-1PL.IN we.IN
'Before you say to me "I will eat (you)", let's play together.' (SKX 156)

```

If the subject of the superordinate clause ('you', 'me', 'we (EX)' or 'he') is a semantic subset of the \(1^{\text {st }}\) person Plural subject of the subordinate clause, this is marked by the agreement affix \(-f(e) i\) on the subordinate clause predicate. Remarkably, the affix \(-f(e) i\) is ambiguous: it corresponds both to the Plural same-subject and the \(1^{\text {st }}\) person Plural inclusive agreement marker. So it is not possible to decide on formal grounds whether the affix on the subordinate participle indicates same-subject or not. Given that in all other cases of semantic inclusion Udihe indicates coreference rather than lack of coreference, we will regard this affix as an indicator of the same-subject relationship.


In example (1646) the subject of the superordinate clause is the inclusive 'we', while the subject of the embedded clause is the exclusive 'we'. In such a
situation the speaker herself is the only participant of both situations. However, the subordinate clause is also marked as same-subject.
\begin{tabular}{cccl} 
(1646) Minti & \(i: \eta-k i-t i\) & anana \\
we & come-PAST-1PL.IN & [we.EX & long.ago \\
bagdi-e-fi & zugdi-le. & \\
live-PP-SS.PL] & house-LOC & \\
'We came to the house where we used to live.' &
\end{tabular}

\title{
Chapter 23 Questions and negation
}

\subsection*{23.1. Questions}

Examples of deliberative and rhetorical questions are given in section 7.9.2.4 and 7.9.5.3, and of tag questions in 9.5.1.3. Echo-questions have not been recorded. On embedded questions see 23.1.4.

\subsection*{23.1.1. Wh-questions}

In wh-questions the question word (a certain form of the Interrogative pronoun) replaces the questioned constituent. Question words are listed in 9.5. Any constituent of the main clause can be questioned in this way. The position of the question word is strictly before the finite predicate, in accordance with the more general rule on the preverbal position of the focus element (24.1.1). The only exception is the question word \(i: m i\) 'why' (23.1.1.6). In questions to the modifier the whole modified noun phrase must immediately precede the predicate. The preverbal question word, like other focus elements (24.1.1), may be sentence-initial (1647), however, other constituents (in particular the subject) can precede it, as in (1648).

(1648)a. Si j'e-uxi mafa-la-i? Iwana-tigi?
you what-LAT man-V-2SG Ivan-LAT
'Whom are you marrying? John?'
b. Kuliga-tigi
ni mafa-la-za?
snake-LAT who man-V-SUBJ
'Who would marry a snake?'

On very rare occasions a question word may be separated from the verb by a verbal modifier.
(1649) J'e-le
mayga
uni:?
what-LOC strong
hurt.PRP
'Where does it hurt a lot?'

In copular constructions described in Chapter 17, when the subject is questioned, the \(w h\)-word precedes the copula and the predicative word is postposed.
```

(1650)J'eu bi:-ni xekui?
what be-3SG hot
'What is hot?'

```

In addition to position, the question word is marked by a rising intonation (3.5.4).

\subsection*{23.1.1.1. Questions to the noun phrase}

Questions to noun phrases are formed with the interrogative pronouns j'eu, j'e'what' and \(n i\) 'who' in the corresponding case. The subject \(w h\)-word triggers \(3^{\text {rd }}\) person Singular agreement on the finite verb. Examples (1651) illustrate questions to the subject; examples (1652), (1653a), (1653b), (1653c), and (1653d) illustrate questions to the Accusative, Ablative, Dative, Instrumental, and Locative arguments, respectively. The question to an object of a postposition is shown in (1654).
\[
\begin{array}{ll}
\text { (1651) a. } & \begin{array}{l}
\text { J'eu tinme-le:-ni? } \\
\text { what fell-SING.PAST-3SG } \\
\\
\\
\text { 'What fell down?' }
\end{array}
\end{array}
\]
b. Ni gada-zana-ni xeleba-wa? who buy-FUT-3SG bread-ACC 'Who will buy bread?'
a J'e-we what-ACC
bu-zene-ni give-FUT-3SG
'What will he give to the girls?'
b. J'e-we \(\tilde{n} o n i:-n i \quad\) si sita-i? what-ACC can-3SG you child-2SG 'What can your son do?'
\begin{tabular}{llll} 
b. & Je-we & \(\tilde{n}\) noni:-ni & si \\
& what-ACC & can-3SG & sita- \(i\) ? \\
& 'Whau & child-2SG
\end{tabular}
aziga-ziga-du?
girl-PL-DAT
(1653) a. Ni:-digi susa:-ni ei n'aula?
who-ABL escape.PAST-3SG this boy
'From whom did this boy escape?'
b. Ni:-du ge: bi-s'e?
who-DAT bad be-PERF
'Who felt bad?'
c. Ni:-zi xulise:-i si?
who-INST travel.PAST-2SG you
'With whom did you travel?'
d. J'e-le ñansule-i?
what-LOC study-2SG
'Where do you study?'
(1654)J'eu die-ni wa'li-e-fi?
what because-3SG fight-PAST-1PL.IN
'Because of what did we fight?'
The following example illustrates a question to the possessor noun phrase.
(1655) Ei j'eu getu 'ana-ti eje-ini?
this what PL boat-3PL float-3SG
'Whose (Plural) boat is floating here?' (SK 666)

\subsection*{23.1.1.2. Questions to adverbial elements}

The list of the interrogative adverbs can be found in 9.5.3, examples are presented in (1656).
(1656) a. Ali nene-zene-ti wakca-i ni:-ziga?
when go-FUT-3PL kill-PRP man-PL
'When will the hunters leave?'
b. Si ali olokto-zono-i?
you when cook-FUT-2SG
'When will you cook?'
c. Si ono muisi-si:?
you how think-IM.2SG
'What do you think?'
d. J'e-du uta-wa nixe:-i?
what-DAT that-ACC do.PAST-2SG
'What did you do this for?'

\subsection*{23.1.1.3. Questioning with the interrogative pro-verb}

The interrogative pro-verb ja- (9.5.4) co-occurs with the object question word (23.1.1.3.1) or is used as the only question word in the clause. Adverbial elements may also be questioned with various forms of the interrogative pro-verb (23.1.1.3.2).

\subsection*{23.1.1.3.1. Questions to the verbal phrase}

Examples of questions where the interrogative pro-verb co-occurs with the Accusative object interrogative pronoun \(j\) 'e-we 'what' are:
(1657) a. J'e-we
\(j a:-i\) ?
PROV-2SG
'What were you doing?'
b. Si j'e-we ja-zaja-i?
you what-ACC PROV-FUT-2SG
'What will you do?'
c. Ono ja:-i mä:usa-i?
how PROV.PAST-2SF gun-REF
'What did you do with your gun?' (SK 431)

Such questions refer to the whole verbal phrase and do not presuppose an answer that includes only the direct object. Thus, the answer to (1657) can be, for example, (1658a), but not (1658b).
(1658) a. Olokto-zono-i.
cook-FUT-1SG
'I will cook.'
b. *ugda-wa
boat-ACC
'a boat'

\subsection*{23.1.1.3.2. Questions to adverbials}

When the interrogative pro-verb is the only interrogative word in the sentence, its various morphological forms express various, normally adverbial, interrogative meanings. For example, the interrogative pro-verb in the Directive form corresponds to the meaning 'go for which reason?' (1659). When used in the subordinate clause the Purposive Converb of the interrogative pro-verb corresponds to the meaning 'what for?' (1660), and the directive Infinitive renders the meaning 'why' (1661).
(1659)Si jay-na-sa:-i
you PROV-DIR-EXP.PAST-2SG
'What did you come to me for?'
(1660) J'e-du
what-DAT
wa-kca-i si
kill-DES-2SG
b'ata-yi-fi boy-AL-REF.PL uta-wa? that-ACC
'Why and for what do you want to kill our only son?' (K 190)


\subsection*{23.1.1.4. Questions to modifiers}

Any constituents of the noun phrase may be questioned. The question words \(j\) 'eu 'what sort of', and \(n i\) 'whose' questioning a possessive modifier require that the head noun be marked by the \(3^{\text {rd }}\) person Singular Possessive affix. On the possessive construction see 13.1.
```

(1662)a. J'eu mo:-ni asi gugda?
what tree-3SG very tall
'What is this very tall tree?'
b. J'eu ule:-we-ni si olokto:-i?
what meat-ACC-3SG you cook.PAST-2SG
'What sort of meat did you cook?'

```

Questions to non-possessive modifiers are formed with the interrogative pro-adjectives (9.5.2) such as ono-fi, onob(u)i 'which' (Northern dialect), ali-fi 'from what time', \(j\) 'e-me 'which, made of what', \(j\) 'eu-ze 'which side', and adi 'how many, how much'.
\begin{tabular}{llll} 
a. & Adi-ti \(\quad\) zugdi-du \(\quad\) si & bagdi.? \\
& how.many-ORD house-DAT you & live.2SG
\end{tabular}
c. Ono-fi tege-we gazi-e-i si? how-ADJ gown-ACC bring-PAST-2SG you 'Which gown did you bring?'
d. Onobui boko tege-ni?
which color gown-3SG
'What color is his gown?' (SK 731)
c. J'eu-ze e:-le-ni käna diga-ini?
what-N side-LOC-3SG deer ear-3SG
'On which side (of the river) does the deer graze?' (SK 277)

\subsection*{23.1.1.5. Questions to copular constructions}

Questions to predicative words expressed by various noun phrases are formed by substituting the interrogative pronoun \(j\) ' \(e u\) 'what' in the corresponding case form for the questioned constituent. In (1664) we exemplify questions to the nominative noun phrase (construction described in 17.2.1.2), in (1665) questions to adverbial predicative words (17.2.2.2.3), and in (1666) questions to the predicative word of the comparative postpositional construction (17.2.2.2.4).
(1664)a. Si gegbi: j'eu?
you name.2SG what
'What is your name?'
b. Abuga-i gegbi-ni j'eu bi-s'e?
father-2SG name-3SG what be-PERF
'What was the name of your father?'
\(\begin{array}{llll}\text { c. } & \text { Si Iwana-zi } & \text { i:-mule } & \text { bi-u } \\ \text { you Ivan-INST } & \text { what-N } & \text { be-2PL } \\ \text { za:-mule-s } & \text { xa:-mule-s? } & \\ & \text { cousin-N-DIS } & \text { brother-N-DIS }\end{array}\)
'Who are you and Ivan to one another, cousins or brothers?'
(1665) a. Anna i:-le bi:-ni?

Anna what-LOC be-3SG
'Where is Anna?'
b. J'e-digi keige?
what-ABL cat
'Where is the cat from?'
\(\begin{array}{cl}\text { (1666) J'eu bede ede:-mi } & b i \text { ? } \\ \text { what like become.PAST-1SG } & \text { me } \\ \text { 'What happened to me?' } & \end{array}\)

In adjectival (17.2.2.1.1), possessive (17.2.2.3), and destinative (17.2.2.1.2) copular constructions, the question word cannot replace the predicative element. Instead, the construction is transformed: the wh-word functions as a prenominal modifier of the subject, while the modified noun occupies the predicative position (1667). The head noun of the possessive (1668) or the destinative (1669) noun phrase corresponds to the finite predicate and takes the possessive marker.
```

(1667)a. Ei ono-fi mo:?
this how-ADJ tree
'What sort of tree is it?'
b. Ali-fi \tilde{ja}:? Zua-fi?
when-ADJ skin summer-ADJ
'What sort of skin? A summer one?'
c. J'e-me tege?
what-ADJ gown
'What is the gown made of?'
d. J'e-me seu? Ku\etaka-ma seu?
what-ADJ oar cedar-ADJ oar
'What is the oar made of? Of cedar?' (K 133)
(1668)a. Ni kusige-ni ?
who knife-3SG
'Whose is this knife?'
b. J'eu xokto-ni?
what footstep-3SG
'Whose are the footsteps?'
(1669) a. Ni kusige-ne-ni?
who knife-DEST-3SG
'For whom is the knife?'
b. J'eu xei-ne-ni?
what handle-DEST-3SG
'What is the handle for?'

```
23.1.1.6. The question word 'why'

The question word \(i: m i / j\) 'emi 'why' is the only \(w h\)-word that need not be located in the immediately preverbal position: it is usually clause-initial and can be separated from the verb by other lexical material (1670). However, it may also be strictly preverbal, as in (1671).


The expression ono bi-mi 'why' (literally: 'being how') seems to behave in the same way, that is, it does not have to be immediately preverbal:
(1672) Ono bi-mi wopti-we kimpigi-e-ti?
how be-INF door-ACC close-PAST-3PL
'Why did they close the door?'

\subsection*{21.1.1.7. Multiple \(w h\)-questions}

Multiple wh-questions are allowed, although rarely; an example is (1673).
(1673) a. J'e-we ni-tigi dian-ki-ni? what-ACC who-LAT say-PAST-3SG 'What did he say, and to whom?'
b. Ono imi ute bede ede-i? how why that like become-PP 'How and why did it happen like this?'

The examples below illustrate multiple embedded questions.
\begin{tabular}{llll} 
Uta bede & gusi-mi & b'ata-ma & sita-ziga \\
that like & play-INF & boy-ADJ & child-PL \\
nica-digi & sa:-iti & ono-do & onobui \\
small-ABL & know-3PL & how-FOC & which \\
bui & xokčo-i-we-ni, & & ono-do \\
animal & attack-PRP-ACC-3SG & how-FOC
\end{tabular} wakča-i-we. hunt-PRP-ACC
'Playing like this boys learn how each animal attacks and how one should hunt.' (SKX 302)
b. Sagdi ma:ma tu: ise-si:-ni
big grandmother all see-IM.PRP-3SG
ni-de ono sita-wa igi-si:-we-ni.
who-IND how child-ACC feed-IIM.PRP-ACC-3SG
'The great grandmother always looks at who brings up children, and in which way.' (SKX 304)

We do not have evidence for any superiority effects in multiple \(w h\)-questions.

\subsection*{23.1.2. Yes-no questions}

Yes-no questions are not marked by any additional morphological means or changes in word order compared to the corresponding declarative sentence. They are differentiated from them only by intonational patterns: the last word is marked by a higher and more prolonged intonational contour (3.6.4). The finite verb normally occupies the clause-final position. Examples (1675) show ordinary yes-no questions, and examples (1676) illustrate negative yes-no questions.
(1675) a. Nua-ni tue eme-gi-ze?
he-3SG winter come-REP-SUBJ
'Will he come in winter?'
b. Xeleba bie? Anči.
bread be.PRES.HAB no
'Is there any bread? No.'
\(\begin{array}{llll}\text { c. } & B u & \text { sun-dule } & \text { ana-la-si-ze-u? } \\ \text { we.EX you.PL-LOC } & \text { night.shelter-V-IM-SUBJ-1PL.EX } \\ & \text { 'Can we spend the night in your house?' }\end{array}\)
(1676) a. Si e-i sa:?
you NEG-2SG know
'Don't you know?'
\begin{tabular}{llll} 
b. & Wasia e-s'e & mamasa-la? \\
& Vasia NEG-PERF & man-V \\
& 'Hasn't Vasia married?' & \\
c. & Si kusige-le anci & bie? \\
& you knife-LOC no & be.PRES.HAB \\
& 'Don't you have a knife?' &
\end{tabular}

\subsection*{23.1.3. Contrastive questions}

Contrastive questions are marked by the focus clitic particle \(-n A\) or \(-n u\) following a contrastive element. In wh-questions the particle is used when the subject questioned is in explicit or implicit contrast with certain other elements (1677). In polar questions it normally follows a focused predicate (1678), while (1679) shows a focus on the spatial adverb. The contrastive word is marked by a rise in intonation, but the clitic does not attract it to itself.
```

(1677)a. Si min-e-we dian-a-i bi-s'e-i
you me-0-ACC say-0-PRP be-PERF-2SG
si-ne ono ja:-i?
you-CONT how PROV-2SG
'You were cursing me, and what are YOU (yourself) doing?'
(K 157)
b. Ei-ne j'eu bäsa-ni?
this-CONT what river-3SG
'And what is THIS river called?'(as opposed to the previous one)
(K 153)
c. Dili-ni-ne ile bi:-ni?
head-3SG-CONT where be-3SG
'And where is HIS HEAD?'
d. Xuda-na?
fur-CONT
'And what about the FUR?'
e. Si-ne tuxi j'eu nixe:-i?
you-CONT sledge what do.PAST-2SG
'Sledge, what did YOU do?'
(1678)a. Begdi: xua-nda:-ni-nu?
leg.REF cut-SEM-PAST-3SG-CONT
'Did she cut off her leg?' (K 154)
b. Ni:-je, emus'e bagdi:-nu?
man-VOC alone live.2SG-CONT
'Man, do you live on your own?' (K 165)

```
c. Iwana zugdi-du bi-s'e-nu?
Ivan bouse-DAT be-PERF-CONT
'Was Ivan at home?'
d. Sin-du xekui-nu?
you-DAT hot-CONT
'Do you feel hot?'
e. Uti ni: ninka-nu?
that man Chinese-CONT
'Is this man Chinese?'
f. Imexi-nu releba?
new-CONT 'Is the bread fresh?'
bread
Si bagä:-za-nu bi-s'e-i?
you other-N-CONT be-PERF-2SG
'Were you on the other side (of the river)?'

The contrastive question particle \(-n u\) attached to the predicate can also express a rhetorical question, for example:
```

(1680) Bi tukti-ze-mi sin-du ata-mi
me climb-SUBJ-1SG you-DAT NEG.SUBJ-1SG
tugbu-nu seutige-we?
drop-CONT nut-ACC
'I will climb up, won't I drop a nut for you?'

```

\subsection*{23.1.4. Alternative questions}

There are several types of alternative questions. None of these types is formed with only one disjunctive element (such as or in English). Instead two disjunctive elements are used. Intonation typically rises at the end of the first disjunct and falls at the end of the sentence.

\subsection*{23.1.4.1. Alternative questions with the pro-verb}

The alternative question can be formed with the pro-verb \(j a\) - as the second disjunct. The pro-verb takes the same morphological form as the finite verb in the first disjunct: in (1681a) they are both in the \(2^{\text {nd }}\) person Singular Future, in (1681b) in the \(3^{\text {rd }}\) person Singular Present. This type is used when the alternatives are described by the same verb in a positive and a negative form.
(1681)a. Si eme-zeŋe-i ..... ja-zaŋa-i?you come-FUT-2SGPROV-FUT-2SG
'Will you come or not?'
b. Tigde-ini ..... ja:-ini?
rain-3SG PROV-3SG'Is it raining or not?'
23.1.4.1. Alternative question with the particle \(-A s(i) . . .-A s(i)\) 'either .. ..... or'
The alternative question may be formed with the disjunctive particle \(-A s(i)\)...\(-A s(i)\) 'either ... or' (for the use of this particle in declarative disjunctivesentences see Chapter 18). It follows the finite verb in the first disjunct and theinterrogative pro-verb ja:- present in the second disjunct in the samemorphological form (1682). Less frequently the disjunctive particle -As(i)follows only the last disjunct (1683).
Si muisi:-si ono nixe-du-ze jene-du-ze:-s you think-PC.2SG how do-PL-SUBJ go-PL-SUBJ-DIS ja-du-ze:-s.

    PROV-PL-SUBJ-DIS

    'According to you, what will they do, will they go or not?'
    b. Eineni kino bi-ze:-s ja-za:-s?
    today movie be-SUBJ-DIS PROV-SUBJ-DIS
    'Will there be a movie today or not?'
(1683) a. J'e-we ja-zaya-i? 'Ana-na-mi
    what-ACC PROV-FUT-2SG boat-DEST-REF
    \(o:-z a \eta a-i e, \quad\) utungie-ne-mi o:-zana-i-esi?
    make-FUT-2SG canoe-DEST-REF make-FUT-2SG-DIC
    'What will you make (for yourself) - a l(large) boat or a canoe?'
    (SK 395)
b. J'e-we ja:-i? jua-i, etete-i,
    what-ACC PROV-2SG sleep-2SG work-2SG
    gäyda-gi:-esi?
    idle-REP.2SG-DIS
    'What are you doing? Are you sleeping, working, or idling again?'
    (SK 394)

If the disjunction applies to a non-predicate constituent, this is also marked by the particle \(-A s(i) \ldots-A s(i)\), which follows the disjoint constituents. In such a case the sentence contains only one finite predicate.
(1684)a. J'e-we xokto-ni käna:-s ogbö:-s? what-ACC footstep-3SG deer-DIS elk-DIS 'Whose footsteps are these: a deer's or an elk's?'
b. Si bugdi:
\(i:-z i\)
wa:-i
you leg.2SG
what-INST kill-2SG
suese-zi-es
kusige-zi-es?
axe-INST-DIS knife-INST-DIS
'What did you cut your leg with, an axe or a knife?'
c. Si ei zugdi-du bi:-es ei
you this house-DAT be.2SG-DIS this
gagda-du bi-es?
other-DAT be.2SG-DIS
'Do you live in this house or in another one?'
d. Si Ima bäsa-li-ni-es Biki
you Iman river-PROL-3SG-DIS Bikin
bäsa-li-ni-es
river-PROL-3SG-DIS eine-i?
'Do you float on the river Iman or the river Bikin?'
e.
\begin{tabular}{l} 
Uti gegbenku amta-ni \\
that berry \(\quad\) taste-3SG \(\quad\) ono-fi-gde \\
zej-es
\end{tabular}\(\quad\) how-ADJ-FOC
sour-DIS sweet-DIS
'What sort of taste do these berries have - sour or sweet?'
\begin{tabular}{llll} 
f. & \begin{tabular}{ll}
\(S i\) & \(j\) \\
& youxi \\
& yout-LAT
\end{tabular} & \begin{tabular}{l} 
xulise- \(i\) \\
go-1SG
\end{tabular} & Iman-tigi-esi \\
Iman-LAT-DIS
\end{tabular}

Samarga-tigi-esi?
Samarga-LAT-DIS
'Where are you going - to Iman or to Samarga?'
23.1.4.2. Alternative questions with the particle \(-n u \ldots\)... \(n u\) 'either ... or'

The clitic particle \(-n u . . .-n u\) 'either ... or' expresses disjunction in questions. It seems basically to have the same meaning as the particle -As(i) ... -As(i), although it is likely to render a greater degree of emphasis. Below it is shown following the predicate and the non-predicate constituent, although the former function is more typical of this particle.
(1685) a. Su xulise:-u-nu
you go.PAST-2PL-DIS
'Did you go or not?'
ja:-u-nu?
PROV.PAST-2PL-DIS

(1686)I:-le

\subsection*{23.1.4.3. Alternative questions with negation}

If in an alternative question the second negative alternative is emphasized, this is expressed in the second disjunct with negative verb \(e\) - which takes the morphological form of the content verb, or the negative auxiliary anči. Both the finite verb in the first disjunct and the negative verb in the second disjunct are followed by the clitic particle \(-n u \ldots-n u\).
(1687) Xeleba bie-nu
bread be.PRES.HAB-CONT
'Is there bread or not?'
Less frequently, in alternative questions with negation the disjunctive particle \(-A s(i)\) follows only the second (negative) disjunct:
\begin{tabular}{|c|c|c|c|c|c|}
\hline (1688) a . & Iwana Ivan & \begin{tabular}{l}
\(\sin -d u\) \\
you-DAT
\end{tabular} & kusige-we knife-ACC & \multicolumn{2}{|l|}{bu-ge give-PERF} \\
\hline & \(e\)-si-ni & \multicolumn{2}{|c|}{bu-o:s?} & & \\
\hline & NEG-PA & -3SG gi & & & \\
\hline & \multicolumn{3}{|l|}{'Did Ivan give you the knife or not?'} & & \\
\hline \multirow[t]{3}{*}{b.} & Koko & jen'e & \(e-s i-n i\) & & \\
\hline & Koko & go.PERF & NEG-PA & & \\
\hline & \multicolumn{4}{|l|}{'Did Koko leave or not?'} & \\
\hline
\end{tabular}
23.1.4.4. Alternative questions with juxtaposition

Alternative questions may be formed by the mere juxtaposition of disjoint constituents.
```

(1689) a. J'eu digan-a-ini, ni: j'eu činda-ni
what say-0-3SG man what bird-3SG
digan-a-ini?
speak-0-3SG
'Who is speaking, is a man or some bird speaking?' (K 122)
b. Ono ja-za-fi? Guli-ne-ze-fi,
how PROV-SUBJ-1PL.IN leave-DIR-SUBJ-1PL.IN
ekei-ze-fi?
stay-SUBJ-1PL.IN
'What shall we do? Shall we leave or stay?' (SK 394)

```

\subsection*{23.1.5. Indirect questions}

\subsection*{23.1.5.1. Finite clause}

The finite subordinate clause is described in Chapter 18. In indirect constituent questions the question word immediately precedes the subordinate clause predicate. The question word (interrogative pronoun) may have the same form as regular question words used in direct questions (9.5). Alternatively, indirect questions may be formed with non-specific indefinite pronouns derived with the clitic particle \(-d A(9.6 .2)\), which function here as interrogative pronouns (1691). In both cases, the subordinate clause is not followed by any evidential particles, even if this is required for the corresponding non-interrogative subordinate clauses (18.3.1).

\(\begin{array}{lllll}\text { d. } & \text { Bi } & \text { ei-mi } & \text { sa: } & \text { ono-fi }\end{array} \quad\) unugu bi:-ni.
be-3SG
'I don't know which disease he has.'
e. \(B i\) ei-mi sa: ono bi-zeŋe-i.
me NEG-1SG know how be-FUT-1SG
'I don't know how I will live.'
\begin{tabular}{rlll} 
(1691) a. & Bi ise-ne-ze-mi & su j'e-zi-de \\
& me see-DIR-SUBJ-1SG you what-INST-IND \\
& nele-kce:- \(u\). & \\
& be.afraid-DUR.PAST-2PL \\
& 'I will go and see what you were afraid of.' (K 158)
\end{tabular}
b. Nua-ni \(\quad\) bua-mi t'osi:-ni ono-do
he-3SG sleep-INF dream-3SG how-IND
ti:gisi:-ni ñö:-wo.
take-3SG sable-ACC
'He is dreaming about how he takes away the sables.'
c. J'e-uxi-de susa:-ni ni-de
what-LAT-IND escape.PAST-3SG who-IND NEG
sa:.
know
'Where she escaped to, nobody knows.' (K 164)

\subsection*{23.1.5.2. Non-finite clause}

Non-finite participial complement clauses are addressed in length in Chapter 20. They are based on the Accusative forms of participles. In such clauses only non-specific indefinite pronouns with the particle \(-d A\) can be used in the interrogative function.
\begin{tabular}{rllll} 
(1692)a. & Si min-tigi & noxoli & gakpa-ja & bi \\
& you me-LAT & first shoot-IMP.2SG & me \\
& ise-lege-i & si & ono-do & gakpa-i-wa-i. \\
& see-PURP-1SG & you how-IND & shoot-PRP-ACC-2SG \\
& 'Shoot at me first, so I can see how you shoot.' (K 152) \\
b. & Düisi-je & j'e-we-de & dian-a-i-we-i. \\
& listen-IMP.2SG & what-ACC-IND & say-0-PRP-ACC-1SG \\
& 'Listen to what I am saying.' &
\end{tabular}


\subsection*{23.1.5.3. Alternative indirect questions}

Both for finite and non-finite subordinate clauses there are two types of alternative questions: with the interrogative pro-verb and with the negative verb in the second disjunct.

\subsection*{23.1.5.3.1. Alternative indirect question without negation}

In non-finite subordinate complement clauses an alternative question is expressed with the indefinite pro-verb \(j a\) - which takes the same morphological form as the subordinate clause predicate (namely, the participle in the Accusative). The disjunctive particle \(-d A \ldots-d A\) follows the subordinate clause predicate and the second predicate expressed by the indefinite pro-verb ja-. Although formally the clause is organized as an alternative question, questions without negation in fact correspond semantically to indirect polar (yes-no) questions ('whether'-questions).
(1693)a.
\begin{tabular}{ll} 
Iwana \(\quad\) áandasi-e-ni & im \\
Ivan ask-PAST-3SG & b \\
gada:-ma-u-de & ja \\
buy.PP-ACC-1PL.EX-DIS & P \\
'Ivan asked whether we bought butter.'
\end{tabular}
b. Nua-ni xaundasi-e-ni bu
he-3SG ask-PAST-3SG we
xulise:-me-u-de
travel.PP-ACC-1PL.EX-DIS
ja-ma-u-de.
PROV.PP-ACC-1PL.EX-DIS
'He asked whether we were traveling.'
c. Say-na-ja magazina
know-DIR-IMP.2SGshop
nientili-gi-e-me-n(i)-de ja-ma-n(i)-de.
open-REP-PP-ACC-3SG-DIS PROV.PP-ACC-3SG-DIS
'Go and ask whether the shop has opened.'
d. Ise-ne Sonia eme-gi-e-me-n(i)-de
see-DIR Sonja come-REP-PP-ACC-3SG-DIS
ja-ma-n(i)-de.
PROV.PP-ACC-3SG-DIS
'Go and see whether Sonja has come.'
e. Say-na Sonia-tigi timana sata-wa
know-DIR Sonya-LAT tomorrow sugar-ACC
xuda-si:-we-n(i)-de ji:-we-n(i)-de.
fur-V.PRP-ACC-3SG-DIS PROV.PRP-ACC-3SG-DIS
'Ask Sonya whether they will sell sugar tomorrow.'
f. Bi ei-mi sa: eineyi kino
me NEG-1SG know today movie
bi-zene-we-n(i)-de ja-zaŋa-wa-n(i)-de.
be-FP-ACC-3SG-DIS PROV-FP-ACC-3SG-DIS
'I don't know whether there will be a movie today.'

In finite subordinate questions the disjunctive particle \(-A s(i) \ldots-A s(i)\) is used instead of the particle \(-d A \ldots-d A\), so the finite indirect alternative question does not differ formally from the direct alternative question (23.1.4).
\begin{tabular}{lllll} 
(1694) a. & Xaundasi-je & ono & nixe-ze & guline-zene-ni-es \\
& ask-IMP.2SG & how & do-SUBJ & go-FUT-3SG-DIS
\end{tabular}
ja-zaŋa-ni-es.
PROV-FUT-3SG-DIS
'Ask what he will do: will he go?'
b. Bi ei-mi sa: o-du
me NEG-1SG know this-DAT Chinese
bagdi-ze:-s ja-za:-s.
live-SUBJ-DIS PROV-SUBJ-DIS
'I don't know whether the Chinese people will live here.'
```

c. Bi ei-mi sa: timana-ni
me NEG-1SG now tomorrow-3SG
\etaene-ze-fi-es ja-za-fi-es
go-SUBJ-1PL.IN-DIS PROV-SUBJ-1PL.IN-DIS
ba:-za ge-tigi.
place-N surface-LAT
'I don't know whether we will go to the forest tomorrow or not.'

```
23.1.5.3.2. Alternative indirect questions with negation

In alternative indirect questions with negation the negative alternative is highlighted and the negative verb \(e\) - functions as a predicate of the second disjunct. As in indirect alternative questions without negation, in non-finite clauses predicates in both disjuncts are marked with the particle \(-d A \ldots-d A\) (1695), while in the finite clause the particles -As(i) ... -As(i) (1696) or -nu ... \(-n u(1697)\) are present.

\begin{tabular}{lll} 
(1697) Memi & ise:-ni & tege \\
REF.ACC bie-nu \\
anči-nu. & see.PAST-3SG & gown be-PRES.HAB-DIS
\end{tabular}
23.1.5.4. Indirect yes-no questions

Indirect yes-no questions are formed by means of a particle \(-d A\) on the dependent predicate, cf.:
```

(1698)Čai xekui-we-ni-de amtala-ja.
tea hot-ACC-3SG-FOC try-IMP.2SG
'Try whether the tea is hot.' (SK 1036)

```

\subsection*{23.2. Negation}

Except for some special constructions, Udihe does not make the formal difference between sentence negation and constituent negation. Examples of these two negation types are presented below in 23.2.1 and 23.2.2, respectively. In both cases, negation is expressed with the negative auxiliary verb \(e\)-/ei-, which precedes the content verb and may take various morphological forms, e.g. \(e\)-si-ti etete-du 'they were not working' <NEG-PAST-3PL work-PL>, e-s'e-li etete 'without having worked' <NEG-PERF-CC.SS work>. For more information on the conjugation of the negative verb and the form of the content verb in negative sentences see 7.3 and 7.1.4. In certain copular constructions negation is expressed by the impersonal copula anči 'no'.

Normally, the negative verb immediately precedes the content verb; however, it is sometimes possible for it to be placed after the verbal stem, as below.
\(\begin{array}{llll}\text { (1699) a. } & \begin{array}{l}\text { Nada } \\ \text { seven }\end{array} & \begin{array}{l}\text { gida } \\ \text { spear }\end{array} & \text { bul'a-wa-ni } \\ \text { shaft-ACC-3SG } & \text { xai-ge-si } \\ \text { bude-zi-u. } & & \\ \text { die NEG-IMP-2PL }\end{array}\)
b. yene-ze-mi bi, lali e-lege-fi.
go-SUBJ-1SG me starve NEG-PURP-1PL.IN
'I should leave so we will not starve.'

It is occasionally possible to insert other lexical material between the negative auxiliary and the content verb, as is shown below. This is not a very frequent option, however. The constituent that can be inserted between the negative verb and the content verb is normally an oblique or indirect object (1700), or some kind of adjunct (1701).
```

(1700) a. E-te-mi-ne
NEG-SUBJ-1SG-CONT
zugdi-tigi i:mi i:?
'Why don't you enter the house?' (K 158)
b. E-zi min-zi iñe
NEG-IMP.2SG me-INST laugh
'Don't laugh at me.'
c. Mafa amä:-wa-ni dili-we-ni
bear back-ACC-3SG head-ACC-3SG
e-iti a:nta-du diga-wan-a.
NEG-3PL woman-DAT eat-CAUS-0
'They don't let a woman eat a bear's back and head.' (SKX 308)
(1701)a. E-ze\etae-fi ute nixe.
NEG-FUT-1PL.IN that do
'We will not do it this way.'
b. E-zi in'ei-zi gusi.
NEG-IMP.2SG dog-INST play
'Don't play with the dog,'

```
zugdi-tigi
house-LAT
``` why enter
b. E-zi min-zi iñe
NEG-IMP.2SG me-INST laugh
'Don't laugh at me.'
\(\begin{array}{lll}\text { c. } \begin{array}{ll}\text { Mafa } & \text { amä:-wa-ni }\end{array} \quad \text { dili-we-ni } \\ \text { bear } & \text { back-ACC-3SG } & \text { head-ACC-3SG } \\ \text { e-iti } & \text { a:nta-du } & \text { diga-wan-a. }\end{array}\)
(1701) a.
\(\begin{array}{lll}\text { E-zene-fi } & \text { ute } & \text { nixe } \\ \text { NEG-FUT-1PL.IN } & \text { that } \\ \text { do }\end{array}\)
'We will not do it this way.'
NEG-IMP.2SG dog-INST play
'Don't play with the dog,'
```


### 23.2.1. Sentence negation

### 23.2.1.1. Regular negation

Here we exemplify ordinary sentence negation (1702) and negation of some special constructions: the subjectless sentence (1703a), the agentless passive (1703b), the active agentless construction (1703c), the impersonal Necessitative (1703d), and the passive (1703e).



The negative auxiliary typically takes scope over the fully derived verb (preferred reading), but it also can refer to the verbal stem. Scope ambiguity is demonstrated in the following example:
(1704) Ei-de teluyu-si-wen-e.

NEG-FOC story-V-CAUS-0
'He does not let him to tell.'
'He let him not to tell.'

### 23.2.1.2. Inchoative negative construction

Inchoative situations in the Past can be negated in two ways, depending on the scope of negation. If the negation takes scope over the whole proposition ('did not start doing something'), this is expressed formally in a regular manner: with the negative verb in the Past and the content verb bearing the inchoative suffix -li- (8.2.2.1). When the inchoative operator remains outside the scope of negation ('started not doing something', that is, 'stopped doing something'), Udihe uses a special construction. It indicates that the action no longer takes place. The construction contains (in this order) the Present form of the negative verb $e-i$, the bare stem of the content verb, and the verb ede- 'become' in the Past tense with the corresponding agreement affix. Cf. (1705a) and (1705b):
(1705) a.

| $\tilde{N}$ 'aula $\quad$ e-si-ni |  |
| :--- | :--- |
| child | NEG-PAST-3SG |
| 'The child didn't start crying.' |  |

sono-li.
cry-INC
b. N'aula ei sono ede:-ni.
child NEG cry become.PAST-3SG
'The child stopped crying.'
More examples of the inchoative negative construction are provided below. Note that in (1705d) the direct object is located between the negative verb and the content verb.

```
(1706) a. Bi xunazi: ei \(\quad \eta u a \quad e d e:-n i\).
me sister.1SG NEG sleep become.PAST-3SG
'My sister stopped sleeping.'
b. Jej'e-u ei uni ede:-ni.
    grandfather-1PL.EX NEG sick become.PAST-3SG
    'Our grandfather stopped being sick.'
    c. Eitene ei-mi-de oño ede:-mi.
    now NEG-1SG-FOC write become.PAST-1SG
    'I stopped writing now.'
    d. Ei-de in'ei-we konko ede:-ni.
    NEG-FOC dog-ACC beat become.PAST-3SG
    'He stopped beating the dog.'
```


### 23.2.1.3. Alternating action

When the periphrastic construction of alternating action (7.11.1) includes the positive and the negative form of the same verb, negation is expressed with the Present stem of the negative verb, the content verb in a bare form, and the inflected Past or Perfect form of the verb ede- 'become'.

```
(1707) Ba:-za ge-tigi \etaene-mu:i-ni ei
    place-N surface-LAT go-DES-3SG NEG
    \etaene-mu:i ed'e.
    go-DES become.PERF
    'He sometimes wants to go to the forest, and sometimes does not want
    to.'
```


### 23.2.1.4. Negation of state

The stative negative construction is formed analytically with the copular verb bi- in the corresponding personal form and the content verb: a stem followed by the contrastive clitic particle $-g d A(12.1 .1 .8)$.

| (1708) a. | Nua-ni tu: tu: $\quad$ nene-gde <br> he-3SG all all go-FOC | bi:-ni. <br> be-3SG |
| ---: | :--- | ---: | :--- | :--- |
|  | 'He is not coming for a long time.' |  |

### 23.2.1.5. Copular constructions

There exist five formally different ways of negating copular clauses (Chapter 17) depending on the semantics and the formal organization of the construction.

### 23.2.1.5.1. Negation of existential and possessive constructions

Existential (17.2.1.3) and possessive (17.2.1.4) constructions, which require the Habitual impersonal copula bie in declarative sentences, are negated with the impersonal existential negation anči 'there is no, there are no' in various temporal forms (see 7.1.4). The existential meaning is shown in (1709) for the Present tense, in (1710) for the Past tense, and in (1711) for the Subjunctive. The negative possessive construction is shown in (1712).
(1709) a. O-du tue ima: anči. this-DAT winter snow no 'There is no snow here in winter.'
b. Min-du sata bie s'ei-de anči. me-DAT sugar be.PRES.HAB salt-FOC no 'I have sugar, but no salt.'

| Sele-gi-e-ni | $n i-$-de | anči |
| :--- | :--- | :--- |
| wake-REP-PAST-3SG | man-IND | no |

bi-si-ni.
be-PAST-3SG
'He woke up and nobody was there.' (K 176)
b. Anna zugdi-du anči bi-s'e.

Anna house-DAT no be-PERF
'Anna was not at home.'

| (1711) Timana | Anna | zugdi-du | anči | bi-ze. |
| ---: | ---: | :--- | :--- | :--- |
| tomorrow | Anna | house-DAT | no | be-SUBJ |

'Tomorrow Anna won't be at home.'
(1712) a.

a. | Nua-ni unugu-ni |
| :--- |
| he-3SG disease-3SG no |

'He does not have a disease.'
b.
Bi abuga- $i$ anči.
me father-1SG no
'I don't have a father.'

| omo gagda | nala-ni | anči. |  |
| :--- | :--- | :--- | :--- |
| one | another | arm-3SG | no | that man-LOC one another arm-3SG no 'This man does not have one arm.'

Existential and possessive copular constructions with the copula ede- 'become' are negated with the negative copula anči (often with the focus particle $-g d A$ ) and the verb ede- in the corresponding form. The resulting meaning is 'remain without', 'disappear'.


### 23.2.1.5.2. Negation of habitual constructions

Copular constructions with the habitual meaning (17.1.2.2) are negated with the uninflected Present stem of the negative verb $e i$ in combination with the Habitual form of the verb 'be' bie. This type of negation applies to adjectival or nominal constructions with a habitual or generic meaning (1714) including subjectless constructions (1715), as well as to destinative participial constructions (1716), and constructions of alienable possession (1717).
(1714)a. Ei mo: gugda ei bie.
this tree tall NEG be.PRES.HAB
'This tree is not tall.'

| b. | Bi uñapti: | aisi | $e i$ | bie. |
| :--- | :--- | :--- | :--- | :--- |
|  | me ring. 1SG | gold | NEG | be.PRES.HAB |
|  | 'My ring is not gold.' |  |  |  |
| c. | $B i$ ge:-i | $e i$ | bie. |  |
|  | me fault-1SG | NEG | be.PRES.HAB |  |
|  | 'I am not guilty.' | (SK 259) |  |  |

(1715) a. Go:-do ei bie. long-FOC NEG be.PRES.HAB 'It wasn't long.'
b. Xakti ei bie.
dark NEG be.PRES.HAB
'It is not dark.'
(1716)

| Odekolona | umi-kči | $e i$ | bie. |
| :--- | :--- | :--- | :--- |
| eau.de.cologne | drink-DP | NEG | be.PRES.HAB |
| 'Eau de cologne is not for drinking.' |  |  |  |

(1717) Ei oloxi siniyi ei bie.
this squirrel yours NEG be.PRES.HAB
'This squirrel is not yours.'
23.2.1.5.3. Negation of a construction with a personal copula

Copular constructions that express a temporal state and normally require a personal non-habitual copula (17.1.1) are negated with the negative verb $e$ - in the corresponding personal form and the content verb 'be' in the form bie. This negation type is, therefore, formally similar to the negation of non-copular constructions (23.2.1.1). In (1718) the negative adjectival construction with non-habitual copula is illustrated, in (1719) the construction with a quantifier, in (1720) the adverbial construction, in (1721) the nominal copular construction, and in (1722) the resultative construction. In adjectival constructions the adjective may precede the negative verb as in (1718a), but it may also be located between the negative verb and the verb bie, as in (1718b) and (1718c).
$\begin{array}{llcll}\text { (1718) a. } & \text { Si zueze-i } & \text { imexi } & \text { e-ini } & \text { bie. } \\ & \text { you table-2SG new } & \text { nEG-3SG } & \text { be.PRES.HAB }\end{array}$
'Your table is not new.'
b. Nua-ni uga-ni e-ini lämugas'a
he-3SG voice-3SG NEG-3SG high
bie.
be.PRES.HAB
'His voice is not high.'
c. Ei xeku e-ini this rope NEG-3SG
umac'a bie. short be.PRES.HAB 'This rope is not short.'
(1719) $O-d u$
this-DAT
'There are not many fish here.'
(1720) Go: e-zene-i
'I won't be here long.' (K 159)

> long NEG-FUT-1SG
bie
be.PRES.HAB

NEG-3SG be.PRES.HAB
(1721) a.
$\mathrm{Na}: \quad n i:-n i$
earth $\quad$ man-3SG
'I am not an earth person.'
ei-mi
bie.
NEG-1SG
o-du. this-DAT

$$
\begin{array}{ll}
n i: & e \text {-ini } \\
\text { man } & \text { NEG-3SG }
\end{array}
$$

be.PRES.HAB
'Pakula is not a merchant.'
(1722) Sugdä:-wa
fish-ACC
$e:-k t u$
clean-RES
'The fish is not cleaned.'
e-ini
NEG-3SG
bie.
be.PRES.HAB

An example of the negative copular construction in the subordinate clause in is (1582).
(1723) Si bi anda-i $\quad$ ei bie bi-si $\quad b i$ you me friend-2SG NEG be.PRES.HAB be-PAST me sin-e-we e-muse-i-de ceze. you-0-ACC NEG-COND-1SG-FOC believe
'If you were not my friend I would not believe you.'

### 23.2.1.5.4. Negation of the Proprietive

The Proprietive forms with the suffix -xi (4.3.1) are negated in a special way. The Proprietive forms are not present in the negative construction. Instead, the
possessed noun in the Partitive is combined with the impersonal copula anči. As in the non-negative counterpart, the construction in question does not contain any possessive noun phrase. However, as demonstrated in (1725), the Partitive can be formed from the nominal stem augmented by the suffix of inalienable possession - $\boldsymbol{\eta} \boldsymbol{i -}$.
(1724) a. Nua-ni kesi-le anči.
he-3SG luck-PART no
'He does not have luck.'
b. Bi ag'a-i omo gagda me brother-1SG one another bugdi-le anči.
leg-PART 'My brother does not have one leg.'

| c.Timana $b i$ $e k e-l e$ <br> tomorrow me time-PART anči | bi-zene-i. |
| :--- | :--- | :--- | :--- | :--- |
| no | be-FUT-1SG | 'I will not have time tomorrow.'

(1725)Saina zä:-ni-le anči bi:-ni.
perhaps money-AL-PART no be-3SG 'Perhaps he does not have any money.'

In (1726) the copula ede- 'become' is illustrated within the construction in question.

| (1726) a. | Bu mo:-lo anči $\quad$ ede:-mu. |  |  |
| ---: | :--- | :--- | :--- |
|  | we wood-PART no become.PAST-1PL.EX |  |  |
|  | 'We remained without wood.' |  |  |
| b. | Nua-ni zä:-la | anči | ede:-ni. |
|  | he-3SG money-PART no | become.PAST-3SG |  |
|  | 'He remained without money.' |  |  |

Note that proprietive adjectives in $-x i$ are negated following the pattern in 23.2.1.5.3, cf.:

| (1727) $\mathrm{Nua-ni}$ | meje-xi | e-ini | bie. |
| :---: | :--- | :--- | :--- |
| he-3SG | mind-ADJ | NEG-3SG | be.PRES.HAB |
| 'He is not clever.' |  |  |  |

### 23.2.1.5.5. Desiderative construction

The desiderative copular construction (17.2.3.2) is negated by the uninflected Present stem of the negative verb ei, which precedes the Desiderative noun. This is illustrated in (1728), while (1729) shows the same construction with the copula ede- 'become'.
$\begin{array}{lll}\text { (1728) a. } & \text { Ei-de } \quad \text { diga-mugdi. } \\ & \text { NEG-FOC eat-DESN } \\ & \text { 'He does not want to eat.' }\end{array}$
b. Eitene
$e i-d e$
diga-mugdi.
now
NEG-FOC
eat-DESN
'Now I don't want to eat.'
(1729) a. Ei-de umi-mugdi ede:-ni.

NEG-FOC drink-DESN become.PAST-3SG
'He stopped feeling thirsty.'
b.

| W'atani | nua-ni |
| :--- | :--- |
| before | he-3SG |
| eitene | ei-de |
| now | NEG-FOC |

diga-mugdi bi-si-ni,
eat-DESN be-PAST-3SG
diga-mugdi ede:-ni.
'Previously he wanted to eat, now he has stopped wanting to.'
23.2.1.6. Subordinate clause

Negation in the subordinate clause is formally organized in the same way as in the main clause, that is, with the negative verb in the corresponding morphological form and the bare stem of the content verb. In the following examples the subordinate clause is marked with square brackets in the glosses.

### 23.2.1.6.1. Complement clause

Examples of the copular (1730a) and non-copular (1730b) participial complement clause are:
(1730) a. Bi sa:-mi
me know-1SG [he-3PL
$e-i$-we-ti
bie.
NEG-PRP-ACC-3PL be.PRES.HAB]
'I know that they are not fair people.'
b. Bi ise:-mi
si e-i-we-i
me see.PAST-1SG [you NEG-PRP-ACC-2SG
etete.
work]
'I saw that you didn't work.'

### 23.2.1.6.2. Relative clause

Example of headed (1731) and headless (1732) negative relative clauses are:

| Uti ni:-we sa:-wu-i <br> that man-ACC know-PAS-2SG | ba:-za |  |
| :--- | :--- | :--- | :--- |
| ge-le-ni |  | place-N |
| [surface-LOC-3SG | NEG-PP-ni | xuli. |

'You can recognize the man who has (never) gone to the forest.'
b. Si ugai ei bie sina-wa
you [heavy NEG be.PRP.HAB] sack-ACC
zawa:-i.
take.PAST-2SG
'You took a sack, a not heavy one.'
c. Suyta ei bie joxoso-wo olonzi
[deep NEG PRP.HAB] river-ACC fording
dau-ze\etae-fi.
cross-FUT-1PL.IN
'We will cross by foot a river which is not deep.'

| d. | sama $\quad$ e-i | bie | ni: |
| :--- | :--- | :--- | :--- |
|  | sahman $\quad$ NEG-PRP | be.PRES.HAB |  |
|  | 'a person who is not a shaman' (SK 157) |  |  |

(1732) Nede-je e-si-me-ni ada padig'a. put-IMP.2SG [NEG-PP-ACC-3SG get.ripe] separately 'Put those that are not ripe separately (about tomatoes).'

```

In the Present tense copular relative clause the content verb 'be' co-occurs with the negative verb in the form of either a regular Present Participle bi:(-) or the Habitual form bie. The former is normally found within the internal relative clause (19.2) in which the relative clause predicate (participle) follows the relativized noun and is marked by case and personal markers. Examples (1733)-(1735) show that the case suffix is either added to the bare participle form (examples (a)) or to the negative auxiliary participle (examples (b)).

b. Bi ei-mi aju ni: elu
me NEG-1SG ike man fair
\(e-i\)-we-ti bie.
NEG-PRP-ACC-3PL be.PRES.HAB]
'I don't like people who are not fair.'


\subsection*{23.2.1.6.3. Adverbial clauses}

The following examples demonstrate different types of adverbial clauses with the negative verb in the corresponding form: the Purposive Converb (1736), the Conditional Converb (1737), and the Infinitive in the adverbial clause of manner (1738).
\begin{tabular}{lllll} 
(1736) a. & nene-ze-mi \(\quad b i \quad\) lali & e-lege-fi. \\
& go-SUBJ-1SG & me & [starve & NEG-PURP-IPL.IN] \\
& 'I will go so that we don't starve.'
\end{tabular}
```

    b. Bi ugda-i \tilde{usisi-zene-i dogbo}
    me boat-1SG
    e-lege-ni
    resin-FUT-1SG
    [night
    ise-pte-i.
    NEG-PURP-3SG
    see-DEC-PRP]
    'I will resin the boat, so that it won't be seen at night.'
    c. Bu e-lege-u mua eni\etae
[we NEG-PURP-1PL.EX sleep] mother
ima\etaku-we imasi-e-ni.
tale-ACC tell-PAST-3SG
'The mother told a tale so that we don't fall asleep.'

| d. | Bue-ni eme:-ni | e-lege-mi | etete. |
| :--- | :--- | :--- | :--- |
| he-3SG come.PAST-3SG | [NEG-PURP-SS | work] |  |
|  | 'He came in order not to do any work.' |  |  |

    [you NEG-CC.2SG go] we hunt-INF
    e-ze\etae-u
    NEG-FUT-1PL.EX
        noni.
    can
    'If you don't go, we won't be able to hunt.'
    b. Bi e-li
[me NEG-CC.SS cook-IM] starve-COND-1SG
'If I don't cook, I will be hungry.'

```
c. Bi ule-we
[me meat-ACC mafa-i husband-1SG
e-lisi: olokto bi
NEG-CC.1SG cook] me
min-e-we ñaugdasi-zene-ni. me-0-ACC curse-FUT-3SG
```

'If I don't cook meat, my husband will curse me.'
a.

| Ule:-we | ei-mi | wa: | zug-tigi |
| :--- | :---: | :---: | :--- |
| [meat-ACC | NEG-INF | kill] | house-LAT |
| $e$ ezene-u | eme-gi. |  |  |
| NEG-FUT-1PL.IN | come-REP |  |  |
| 'Without finding meat, we won't return home.' |  |  |  |


| b. | Nua-ti | $e i-m i$ | ča:la | $e$-si-ti |
| :--- | :--- | :--- | :--- | :--- |
| he-3SG | [NEG-INF | want] | NEG-PAST-3PL | oño. |
| write |  |  |  |  | 'They wouldn't have written (it) without wanting to.'

c. Ei-mi-de etete kino-tigi jene:-ni.
[NEG-INF-FOC work] cinema-LAT go.PAST-3SG 'He went to the cinema without working.'
If the subordinate clause contains the existential copular construction, the impersonal negative copula anči precedes the verb bi- in the corresponding form, for example, the Perfective Converb in (1739), the Conditional Converb in (1740), or the Infinitive in (1741). For non-existential copular constructions

```
in the subordinate adverbial clause negation is formed with the Present stem of the negative verb \(e i\) and the corresponding form of the verb bi- (1742).
```

(1739)a. Na: xu-ni anči bi-si-ni min-zu\etae
[earth smell-3SG no be-PP-3SG] we-both
omo-si-gi-ze\etae-fi.
one-V-REP-FUT-1PL.IN
'If there is no earth smell, we two will unite again.'
b. Bi eke-le anči bi-si
[me time-PART no be-PAST]
e-muse-i \etaene.
NEG-COND-1SG go.
'If I didn't have time, I wouldn't go.'
(1740)Sugzä: anči bi-lisi-ni lali-kce-zene-fi.
[fish no be-CC-3SG] starve-INT-FUT-1PL.IN
'If there is no fish, we will be hungry.'
(1741)Su: anči bi-mi xai ñamai.
[sun no be-INF] still warm
'Although there is no sun, it is still warm.'
(1742)Nua-ni ei uni bi-si geje yene-muse.
he-3SG NEG be.ill be-PAST together go-COND
'If he were not ill, he would have come (with us).'

```

\subsection*{23.2.1.6.4. Generalized relative clause}

Affirmative generalized relative clauses can be both finite (18.3.2.1) and non-finite (19.5.2), but in the negative form only the non-finite construction is allowed. Sentences with the generalized negative relative clause express the non-existence of the class of objects characterized by the relative clause. The superordinate clause of such sentences is a negative existential construction with the existential negative copula anči. The relative clause is headed by an indefinite non-specific pronoun (9.6.2) with the negative interpretation, or an expletive word such as ba: 'place, nature'. The relative clause predicate corresponds to the Destinative Participle (7.6.1.4). Like the regular relative clause (Chapter 19), the generalized negative relative clause can be prenominal or postnominal.

In prenominal clauses the Destinative Participle is not marked by a personal inflection. In most cases it immediately precedes the head (indefinite pronoun) as in (1743), but can be extraposed as well (1744). The Future passive participle can occasionally function as the predicate of such a relative clause
(1745). The prenominal negative generalized relative clause normally has an impersonal interpretation.
(1743) a. Diga-kči j'eu-de anči.
[eat-DP what-IND] no
'There is nothing to eat.' (K 146)
b. jene-kči ba:-ni anči. [go-DP place-3SG] no 'There is no place to go.'
(1744) O-du
this-DAT [what-ACC-IND]
'There is nothing to drink here.'
(1745) Nua-ni zugdi-du-ni \(\quad\) j'eu-de anči diga-u-zene.
he-3SG house-DAT-3SG [what-IND] no [eat-PAS-FP]
'There is nothing to eat in his house.'
The postnominal generalized relative clause usually includes the subject encoded by the Nominative noun phrase. However, the subject agreement is suppressed: the relative clause predicate (the Destinative Participle) always takes the \(3^{\text {rd }}\) person suffix -ni independently of the person and number of the subject, cf. (15.1.1.2.1).
(1746) a. Bi nua-tigi-ni j'e-we-de dian-a-kči-ni [me he-LAT-3SG what-ACC-IND talk-0-DP-3SG] anči.
no
'I don't have anything to talk about with him.'
\(\begin{array}{llll}\text { b. } & \text { Bu i:-le-de } & \text { bagdi-kči-ni } & \text { anči } \\ \text { [we what-LOC-IND } & \text { live-DP-3SG] } & \text { no } & \text { be-PERF }\end{array}\) 'I don't have anything to live in.'
\(\begin{array}{llll}\text { c. } & \begin{array}{ll}\text { Minti } & j \text { 'e-uxi-de } \\ \text { [we } & \text { what-LAT-IND }\end{array} & \text { nene-kči-ni } & \text { anči. } \\ \text { go-DP-3SG] no }\end{array}\)
'We don't have anywhere to go.'
Note that the Nominative subject is located within the relative clause itself, as indicated by the bracketing. A piece of evidence for this comes from the position of adverbs: they can precede the relative clause subject but cannot follow it, as illustrated in (1747).
```

(1747) $O-d u$
$b i\left({ }^{*} o-d u\right)$
$n i$ :-tigi-de
this-DAT [me (*this-DAT)
man-LAT-IND
dian-a-kči-ni anči.
say-0-DP-3SG]
no

```
'Here I don't have anyone to talk to.'
In the Northern dialect, the impersonal Infinitive can be used in the generalized negative relative clause.
```

(1748)J'e-we-de tau-mu anči.
what-ACC-IND put-IMI no
'There is nothing to put (in the sack).' (SK 429)

```

\subsection*{23.2.1.7. Negative words}

Udihe does not exhibit negative concord. No overt negative elements appear under the scope of sentence negation. Non-specific indefinite pronouns formed with the clitic particle \(-d A(9.6 .2)\) function as negative pronouns.

Either the negative word itself (1749) or the noun phrase with the negative modifier (1750) must be strictly preverbal. In subjectless existential constructions the negative word is located before the predicative noun (1751).
\begin{tabular}{llll} 
a. J'e-we-de & \(a-\) ta- \(i\) & \(b ' a\) & \(s i\). \\
what-ACC-IND & NEG-SUBJ-2SG & get & you \\
'You won't get anything.' & &
\end{tabular}
\begin{tabular}{llll} 
b. & Belie & \(i:-l e-d e\) & \(e-s i-n i\) \\
fairy & what-LOC-IND & NEG-PAST-3SG & sit
\end{tabular}
'The fairy did not sit anywhere.' (K 34)
\begin{tabular}{lll} 
c. & Zugdi-du & ni:-de \\
house-DAT & man-IND & no \(i\).
\end{tabular}
'There is nobody in the house.'
\begin{tabular}{lll} 
(1750) J'eu-de & keje-we-ni \\
what-IND & word-ACC-3SG & e-zi \\
dian-a. & NEG-IMP.2SG \\
say-0 & \\
'Don't say any words.' (K 174) & \\
& \\
\begin{tabular}{rlr} 
(1751) J'e-le-de \\
this-LOC-IND & okto & medicine
\end{tabular} & \begin{tabular}{l} 
anči. \\
'There is no medicine anywhere.'
\end{tabular} &
\end{tabular}

There can be several negative pronouns in a clause, all with a negative interpretation, cf.:
\begin{tabular}{ccll} 
(1752) Ni:-de & \(j\) 'e-we-de & e-ini & sa: \\
who-IND & what-ACC-IND & NEG-3SG & know \\
'Nobody knows anything.' & &
\end{tabular}

\subsection*{23.2.2. Constituent negation}

Constituent negation does not differ in a formal respect from sentence negation. When a constituent is negated but the contrasting alternative is not overtly expressed, the clause is interpreted as sentence negation. Constituent negation becomes apparent only in the situation of overt contrast, when the negated constituent is formally opposed to another semantically similar element (23.2.2.1). Only for some constituents is negation expressed by some specialized sentence constructions (23.2.2.2).

\subsection*{23.2.2.1. Contrastive constituent negation}

When a contrastive focus constituent is negated, the contrasting element is also present in the sentence. It is in some way expressed in the conjoint clause with the affirmative interpretation. In the negative clause negation is expressed in a formally regular manner, while the verb in the conjoint clause takes the same morphological form. Examples (1753) present the negation of the nominal constituent, examples (1754) the negation of the predicative element of the copular construction, and example (1755) the negation of the finite verb.
\begin{tabular}{llllll} 
(1753)a. & \begin{tabular}{l} 
Nua-ni \\
he-3SG this \(\quad\) zugdi-le \\
house-LOC
\end{tabular} e-ini & NEG-3SG & bagdi \\
xonto-lo & bagdi:-ni.
\end{tabular}
c. Sele-me emuge-we bi ei-mi gele, iron-ADJ cradle-ACC me NEG-1SG ask aisi-me-we gele-mi.
gold-ADJ-ACC ask-ISG
'I am not asking for an iron cradle, I am asking for a gold one.' (Schneider 1937: 86)
\begin{tabular}{llll} 
a. moxo- \(i\) & c'aligi e-ini & bie \\
me cup-1SG \(\quad\) white NEG-3SG & be.PRES.HAB \\
xulaligi bi:-ni. & & \\
red be-3SG & \\
'My cup is not white but red.' &
\end{tabular}
b. Ei b'ata e-ini bi
this boy NEG-3SG be.PRES.HAB
aziga
girl bi:-ni. be-3SG
'This is not a boy, but a girl.'
(1755) Giusa-wa
roe-ACC
'I didn't kill the roe, but wounded it.'
wa: sieni-e-mi.
kill wound-PAST-1SG

The contrastive alternative may be rendered with the expression ei bie 'not', cf.:
\begin{tabular}{|c|c|c|}
\hline \multicolumn{2}{|l|}{Ei Ivana eme-gi-e-ni} & \multirow[t]{3}{*}{\begin{tabular}{l}
Petra \\
Peter
\end{tabular}} \\
\hline this Ivan & come-REP-PAST-3SG & \\
\hline \(e i \quad b\) & & \\
\hline NEG b & be.PRES.HAB & \\
\hline \multicolumn{3}{|l|}{'This is Ivan who has returned, not Peter.'} \\
\hline Ise-je & \(j\) 'eu xokto-ni, & käna:-s \\
\hline see-IMP.2SG & what footstep-3SG & deer-DIS \\
\hline ogbö:-s. & & \\
\hline \multicolumn{3}{|l|}{elk-DIS} \\
\hline See whose fo & ootsteps these are, a deer's & lk's?' \\
\hline
\end{tabular}
(1757)Käŋa ei bie, ogbö xokto-ni. deer NEG be.PERS.HAB elk footstep-3SG
'They are not the deer's, but the elk's (the footsteps).'

\subsection*{23.2.2.2. Non-contrastive constituent negation}

Special constructions for non-contrastive constituent negation are used in certain cases, normally when the negated constituent expresses some kind of secondary predication. Such constructions are formed with the copula anči in certain case forms and the Partitive form of the possessed noun.

\subsection*{23.2.2.2.1. Negation of the circumstance adjunct}

The construction with the negated circumstance adjunct (15.4.5.6) means 'without something'. It has two formal types. First, the adjunct can be negated with the negative copula in the Instrumental case (anči-zi <no-INST>), which follows the possessed noun in the Partitive form (1758). Personal pronouns do not have the Partitive form (1759). The circumstance adjunct is enclosed in brackets in examples below.
\begin{tabular}{llll} 
Bi & čaja-wa & umi-mi & sata-la \\
me tea-ACC & drink-1SG & anči-zi. \\
[sugar-PART & no-INST] \\
'I drink tea without sugar.' & &
\end{tabular}
\begin{tabular}{llll} 
b. & \(B i\) & zueze-we & tikpe-le \\
& me table-ACC & [nail-PART & anči-zi \\
no-INST]
\end{tabular}
wo:-mi.
make.PAST-1SG
'I made a table without nails.'
c. J'e-we bui-we-ni ku'ai-la anči-zi
what-ACC animal-ACC-3SG [ear-PART no-INST]
b'akta-wan-a-i-ze.
hear-CAUS-0-IMP.2SG-HORT
'Let all animals listen (as if they were) without ears.'
d. Mende-le anči-zi sigili-je.
[end-PART no-INST] stir-IMP.2SG
'Stir without stopping.'
\begin{tabular}{ccc} 
(1759) \(S u \quad\) anči-zi & zuge b'a-mu & bu. \\
[you no-INST] & trouble get.PAST & we \\
'We had trouble without you.' &
\end{tabular}

Second, in the construction in question the copula anči can take the Ablative case and is inflected with the \(3^{\text {rd }}\) person personal affix -ni, so its resulting form is anči-digi-ni <no-ABL-3SG>. The possessed noun then appears in the Nominative case. There does not seem to be any semantic difference between these two options.
(1760) a. \(\quad E i\)
\begin{tabular}{lll} 
[this & axe & no-ABL-3SG] \\
\(e\)-ini & xuli. \\
NEG-3SG & walk \\
'He does not walk without this axe.'
\end{tabular}
e-ini
NEG-3SG work
[this knife no-ABL-3SG]
'He does not work without this knife.'
23.2.2.2.2. Negation of the temporal adjunct

A temporal adjunct which is normally encoded by the Dative noun phrase (15.4.2.1) is negated with the Dative case of the negative copula inflected with the \(3^{\text {rd }}\) person personal affix (anči-du-ni <no-DAT-3SG>). Examples are:
```

(1761)a. exe-ni anči-du-ni
elder.sister-3SG no-DAT-3SG
'while her older sister is absent'
b. Si sita-na-i anči-du-ni zugdi-du
[you son-PL-2SG no-DAT-3SG] house-DAT
simu-simu bie.
quiet-quite be.PRES.HAB
'It is quiet in the house without your sons.'

```
c. Nua-ni gagda-i anči-du-ni
[he-3SG friend-REF no-DAT-3SG]
e-ini mute.
NEG-3SG can
'He can't live without his friend (in the absence of his friend).'
d. bua tue-ni xokto anči-di-ni jene-mi
place winter-3SG road no-DAT-3SG go-INF
'walking in winter in the forest without a road' (SK 94)

The following example demonstrates that when the argument of the negative copula is a personal pronoun, the copula can take personal inflections other than that of the \(3^{\text {rd }}\) person.
```

(1762) Bi anči-du-i
bagdi:.
me no-DAT-1SG
live.2SG

```
'You live without me.' (SK 778)
With respect to living persons similar meaning can be also rendered by means of the postposition geun-di(le)-ni 'in the absence of somebody' (see 10.2.1.3.2).

\subsection*{23.2.2.2.3. Negation of the Proprietive}

The Proprietive is negated with the copula anči and the Partitive form of the possessed noun. This construction behaves like most regular modifiers, that is, it can be either prenominal or postnominal (on postnominal extraposed modifiers see 24.2.1.2.3). In the prenominal modifying construction the copula is in the Nominative (1763). Such a negative modifier in the Nominative case normally functions as a co-predicative element (1764).
\begin{tabular}{lll} 
Bi & kusige- \(i\) & bu-o:-mi \\
me & knife-1SG & give-PAST-1SG
\end{tabular}
\begin{tabular}{ll} 
nukte-le & anči \(i\) \\
hair-PART & no
\end{tabular}
\(n i:-d u\).
man-DAT
'I gave my knife to a bald person (a person without hair).'
\begin{tabular}{lllll} 
a. & \begin{tabular}{ll} 
Nua-ni & \(z a ̈:-\eta i-l e\) \\
he-3SG & money-AL-PART
\end{tabular} & \begin{tabular}{l} 
anči \\
no
\end{tabular} & \begin{tabular}{l} 
eme:-ni. \\
come.PAST-3SG
\end{tabular}
\end{tabular} 'He came without money.'
b. Bi zugdi-le anči bagdi-mi.
me house-PART no live-1SG
'I live without a house.'
Besides this, the negative possessive construction with the copula anči can be conjoint to the clause; such cases are addressed in 18.1.2.2.2.

\section*{Chapter 24 Information structure and word order}

This chapter deals with the effects of information structuring on the surface shape of the clause. We assume that the information structure is an independent level of clause representation that deals with the "packaging" of the information in the utterance. The relevant units of the information structure here considered as primitives are topic and focus. In their definition we will rely heavily on the practice of Lambrecht (1994) where they are identified in relation to one another and to the corresponding proposition. Topic will be understood as the subject about which the proposition is pragmatically construed (Lambrecht 1994: 131). The existence of a topic participant is presupposed by the speaker, so topic is always (a part of) the pragmatic presupposition of the utterance. Focus will be understood as "the semantic component of a pragmatically structured proposition whereby the assertion differs from the presupposition" (Lambrecht 1994: 213). If the presupposition is lacking, the focus and the assertive part of the utterance coincide. Thus, every sentence has a focus, but not every sentence necessarily has a topic (if it lacks a pragmatic presupposition). Roughly speaking, sentence elements that do not correspond to the functions of topic and focus may be viewed as neutral with respect to information structure.

Although, strictly speaking, the notions "topic" and "focus" refer to relations at the level of information structure, we will use these terms to refer to the corresponding elements of the clause as well. Topic normally corresponds to a non-verbal constituent whose referent is mentioned in the discourse, although new topics are possible as well. As distinct from the topic, focus can correspond not only to the nominal constituent, but to a verbal constituent as well.

We will further assume that information structure functions stand in a certain mapping relationship to syntactic and semantic units. However, this is a matter of considerable controversy, and no attempt will be made to describe here such mapping relationships in Udihe. This chapter only concentrates on the correspondences between a particular information structure status and the linear order of the sentence elements. As demonstrated below, word order in Udihe is primarily motivated by information structure considerations, although grammatical information is also relevant.

Section 24.1 deals with word order at a clause level. Additional information about word order can also be found in other chapters, particularly those on
questions and negation (Chapter 23), on the adverbs (10.1.7), and the particles (Chapter 12). Word order within a regular NP is treated in Chapter 13.

In some cases the information structure, together with semantics, conditions the sentence construction, that is, the encoding of semantic units by grammatical relations. Some remarks on this may be found in Chapter 16 on the valence-changing operations. Such alternative constructions at the level of the clause were discussed in Chapter 16. In section 24.2 we address the word order and information structure driven alternative encoding of sentence elements within a noun phrase, while in 24.3 we focus on copular constructions.

\subsection*{24.1. Word order at a clause level}

Udihe exhibits certain typological features of a head-final SOV language: a head-final noun phrase (Chapter 13) and relative clause (19.1), a left-branching complement embedded clause before the matrix verb (Chapter 20), postpositions (10.2), etc. Indeed, the SOV order is the most common statistically as well. The typical SOV order is illustrated by examples below.
```

(1765)a. Mamasa ule:-we olokto-ini.
old.woman meat-ACC cook-3SG
'The old woman is cooking meat.'
b. Omölo-i wopti-we kimpigi-e-ni.
granddaughter-1SG door-ACC close-PAST-3SG
'My granddaughter closed the door.'
c. Cinda-ziga jegdige ag'a-du kuge-we
bird-PL hero brother-DAT bellows-ACC
kuge:-ti.
blow.PAST-3PL
'The birds blew (the fire) with bellows for the brother hero.'
(SKX 76)

```

Cross-linguistically, subject is known to correlate with topic information structure status, while the direct object is likely to encode the focus (in the sense of narrow focus). The SOV order in Udihe seems to be a result of three independent requirements: (i) the preverbal position of the focus (24.1.1), (ii) subject/topic initiality (24.1.2), and (iii) verb finality (24.1.3). Requirement (i) appears to be inviolable, therefore, when an element other than the direct object corresponds to the focus function, the SOV order is abandoned. Requirements (ii) and (iii) can easily be violated. As a result, the SOV order appears non-rigid, deviations being motivated by specific information structure requirements.

Elements that do not bear the focus or topic functions in the information structure seem to be located relatively freely in the sentence. Clausal adverbs tend to stand in the clause-initial position (10.1.7.1).

\subsection*{24.1.1. Focus position}

The most important requirement of Udihe word order is the preverbal position of the focus element. In a clause that does not involve any constituents other than SOV, this, under normal discourse conditions, results in the preverbal position of the object. The reason for this is that in such sentences the object typically corresponds to the focus function, while the subject normally corresponds to the topic function. In clauses with a more complicated structure, the focus element is necessarily strictly preverbal independently of its semantic role. Other elements are located either before the focus element or after the verb. Different cases are exemplified below.

The focus element (especially the focus that bears an additional contrastive implication) is highlighted by a high pitch intonation. In the translations we will capitalize the element that corresponds to the focus function.

\subsection*{24.1.1.1. Question words}

Question words are universally known to be pragmatically and formally associated with the focus. In Udihe, the position of the question word is necessarily strictly preverbal. On exceptions see 23.1.1.6. Examples of preverbal question words, clause-initial (1766) and non clause-initial (1767) are cited below.
\begin{tabular}{lllll} 
(1766) a. & \(I:-l e\) & \(b\) 'a- \(i\) & si & mamasa-na-mi? \\
& what-LOC & find.PAST-2SG & you & wife-DEST-REF
\end{tabular}
(1767) a. Um'a i:-du xuaja:-i?
hook what-DAT break.PAST-2SG
'WHY did you break the hook?' (K 111)
b. Sugzä:-wa j'eu diga-gi-e-ni?
fish-ACC what eat-REP-PAST-3SG
'WHO ate the fish again?' (K 148)

\subsection*{24.1.1.2. Subject focus}

When the subject bears a focus status, the possible word orders are OSV (1768a) or SVO (1768b). In (1768b)-(1768c) the focus bears an additional contrastive implication.
(1768) a. Ei kusige-we min-du Iwana bu-ge. this knife-ACC me-give Ivan give-PERF 'This knife was given to me by IVAN.'
\begin{tabular}{llllll} 
b. & Komo, & si & zomi: & \(b i\) & sugzä:-qi-we-i? \\
Komo & you & steal.2SG & me & fish-AL-ACC-1SG
\end{tabular}
'Komo, is it YOU who steal my fish?' (K 148)
\(\begin{array}{llll}\text { c. } & \text { Ei Iwana } & \text { eme-gi-e-ni } & \text { Petra } \\ \text { this Ivan } & \text { ei } \\ \text { come-REP-PAST-3SG } & \text { Peter } & \text { NEG }\end{array}\)
bie.
be.PRES.HAB
'This is IVAN who has come, not Peter.'

\subsection*{24.1.1.3. Adverbial elements in focus}

Certain (predicate) adverbials are likely to correspond to the focus function and are therefore mostly found in the immediately preverbal position (cf. 10.1.7.1). Examples of the preverbal focus on the instrumental noun phrase (1769a), the temporal adverb (1769b), and on manner adverbs (1770) are cited below. As can be seen, the direct object is separated from the verb by the focus element (1770).
\begin{tabular}{lllll} 
Jogoso tene asi & kangäs'a & mo: & uli-we \\
river CONT very & narrow & tree & water-ACC
\end{tabular}
'The river is very narrow, the trees cover the water WITH SHADOWS.'
b. Susana timana eme-zene-ni?

Susan tomorrow come-FUT-3SG
'Will Susan come TOMORROW?'
(1770) a. Ei tege-we ge:-zi wo:-ti.
this gown-ACC bad-INST make.PAST-3PL
'They had sewn this gown BADLY.
b. Ei dogbo-ni sin-e-we ono-do
this night-3SG you-0-ACC how-FOC
nixe-mi zawa-za-mi.
do-INF catch-SUBJ-1SG
'I will catch you this night ANYWAY.' (K 145)
When degree adverbials and quantifiers within a noun phrase bear the focus function, they are located immediately before the verb, while the head noun is postposed (see section 24.2.1.2 on discontinuous constituents).

\subsection*{24.1.2. Subject initiality}

The subject is normally clause-initial, especially in the absence of any oblique constituents.
\begin{tabular}{rlrl} 
(1771)a. & \(B i \quad\) si anda- \(i\) & bi-mi. \\
& me you friend-2SG & be-1SG \\
& 'I am your friend.' & \\
b. & Nua-ni pensija-wa & taulagi-e-ni. \\
& he-3SG pension-ACC & get-PAST-3SG \\
& 'He got a pension.' &
\end{tabular}

Subject initiality can be violated in the following cases.

\subsection*{24.1.2.1. "Scene-setting" expressions}

Clausal adverbs (sometimes referred to as "external topics" or "scene-setting" expressions) are normally situated clause-initially, and therefore precede the subject, cf. 10.1.7.1. They take scope over the whole clause and express spatial or temporal aspects of the situation described.
\begin{tabular}{lll} 
Wei-du & c'aligi ja: & bi:-ni. \\
garden-DAT & white cow & be-3SG
\end{tabular} 'In the garden there is a white cow.'
b. Utem(i)-de pauza baycala:-ni. then-FOC roe kick.PAST-3SG
'Then the roe kicked (him).'
c. Neni-ni timana suala teti-gi.,
day-3SG tomorrow ski dress-REP.PRP gulin'e. leave.PERF
'The next day he put on his skis and left.'

\subsection*{24.1.2.2. Presentational construction}

A new participant is usually introduced in the discourse as a subject within presentational constructions in which the correlation between the subject and the topic is violated. In Udihe the (indefinite) subject of presentational sentences is regularly postposed after the verb. It may be immediately postverbal, as in (1773), or separated from the verb by other lexical material, as in (1774).
\begin{tabular}{llllll} 
(1773) a. & \begin{tabular}{l} 
Tukä-ini pauza mo:kt'oi \\
run-3SG roe bushes
\end{tabular}\(\quad\)\begin{tabular}{l} 
do-lo-ni. \\
inside-LOC-3SG
\end{tabular} \\
& 'There is a roe running in the bushes.'
\end{tabular}
\begin{tabular}{lll} 
(1774) Agda-si-mi & adga-si-mi & \begin{tabular}{l} 
tiymele:-ni \\
oar-V-INF \\
kuliga.
\end{tabular} \\
oar-V-INF & \\
fnake & \\
'He was mooring, mooring, (and) a snake fell from there.'
\end{tabular}

\subsection*{24.1.2.3. Predicate focus}

The subject is postposed to the postverbal position when the focus extends over the verb alone. This covers the following cases: (i) an "urgent news" report (1775); (ii) when the verb is in potential contrast (1776) or questioned (yes-no questions as in (1777) and answers to them); or (iii) when the action itself is emphasized and presented with an effect of immediateness (1778).
Buk-ki-ni Uza.
die-PAST-3SG Uza
'Uza DIED.'(K 114)
b. クene-zene- \(i\) bi.
go-FUT-1SG me
'I am LEAVING.' (K 148)
\begin{tabular}{llll} 
c. & Ge \(\quad\) zeli-we & is'e & Pakula. \\
well \(\quad\) bulltrout-ACC & see.PERF & Pakula \\
& 'Well, Pakula saw a bulltrout (a sort of salmon).'
\end{tabular}
d. Uta-digi tene kepte-mi ise-si:-te that-ABL CONT lie-INF see-IM.PRP-FOC \(t e:-g i-e-n i \quad\) gune belie-n(i)-de. get.up-REP-PAST-3SG EV girl-3SG-FOC 'While lying down he then saw that the girl GOT UP.' (K 145)
```

(1776)Ono-do ja: sin-e-we uisigi-ze\etae-i bi.
how-IND PROV you-0-ACC rescue-FUT-1SG me
'Whatever happens, I will RESCUE you.' (K 188)
(1777)Diga-u su?
eat-2PL you
'Did you EAT?'

| a. | Jogoso-li | solo-ini | Pakula ugda-zi. |
| :--- | :--- | :--- | :--- |
| river-PROL | go.upstream-3SG | Pakula boat-INST |  |

```

\subsection*{24.1.3. Verb finality}

Verb finality is violated by the subject postposed under certain conditions (24.1.2). In addition, it can be violated as a result of object postposing. When an element other than the direct object corresponds to the focus function, the direct object in the transitive clauses is likely to be postposed and stand after the verb (1779). However, it may also be located before the focus element, so variants such as (1780a) and (1780b) are both acceptable, while the latter is likely to express a greater degree of contrast.
(1779)Nua-ti tutulu gele-masi:-ti kusige-we. he-3PL always ask-REC-3PL knife-ACC
'They always ask for a knife from each other.'
(1780) a.
\begin{tabular}{lll} 
Bi & nua-ma-ni & nala-zi: \\
me he-ACC-3SG & hand-INST.REF & zawa-za-mi. \\
take-SUBJ-1SG
\end{tabular}
'I would take him by the hand.'
\begin{tabular}{|c|c|c|}
\hline \multirow[t]{4}{*}{b.} & nala-zi: & zawa-za-mi \\
\hline & hand-INST.REF & take-SUBJ-1SG \\
\hline & nua-ma-ni. & \\
\hline & he-ACC-3SG & \\
\hline & 'I would take him & y the hand.' \\
\hline
\end{tabular}

In the language of the younger generation the object may be postposed without any particular information structure motivation, under the influence of Russian. This is possible even when the object is a (non-contrastive) focus, cf. (1781a) and (1781b).
\begin{tabular}{clll} 
(1781)a. & Pakula zeli-we & is'e. \\
& Pakula \(\quad\) bulltrout -ACC & see.PERF \\
& 'Pakula saw a bulltrout (a sort of salmon).' \\
b. & Pakula & is'e & zeli-we. \\
& Pakula & see.PERF & bulltrout-ACC \\
& & 'Pakula saw a bulltrout (a sort of salmon).'
\end{tabular}

Elements other than subject and direct object may occasionally follow the verb. They are normally all kinds of adjuncts (1782), as well as the modifiers of the focused verb (see 10.1.7.2).
\begin{tabular}{llll} 
a. & Nada & kotoi-ziga & bi-si-ti \\
& seven & bald-PL & be-PAST-3PL \\
& 'There lived seven bald ones with their mother.'
\end{tabular}
'His son ran home.'

\subsection*{24.2. Information structure within the noun phrase}

This section describes alternative organizations of the non-possessive (24.2.1) and possessive destinative (24.2.2) noun phrase that are conditioned by the different distribution of information structure functions between their components.

\subsection*{24.2.1. Non-possessive noun phrase}

Here we focus on the alternative organization of the modified non-possessive noun phrase, mostly those in which the modifier corresponds to an adjective or a quantifier. As was argued in Chapter 13, the noun phrase is normally head-final. Attributive agreement in case is absent, while agreement in number
is optional (13.2.2). The relation between the head and the non-possessive modifier is not encoded by any special morphological device. However, under conditions driven mainly by considerations of information structure there may be variance in word order and the encoding of the attributive relationship within a noun phrase.

Generally speaking, the regular organization of the noun phrase described in Chapter 13 is observed when both the modifier and the head noun bear the same status in the information structure (topic, focus, or neutral). This results in the noun phrase being unpartitioned from the point of view of information structure. When their statuses differ, either the modifier is raised (24.2.1.1), or the noun phrase is organized discontinuously (24.2.1.2).

\subsection*{24.2.2.1. Modifier raising}

Certain types of modifiers can be raised to the head position. Typically, the construction is motivated by some sort of modifier's foregrounding. It is observed when the head noun and the modifier bear different information structure functions, namely, either the head is topicalized (cf. the topicalizing internal relative clause (19.2)) or the modifier is in (contrastive) focus, or both of these conditions hold.
```

(1783) nene-mi jegdige xokto agdan-di-ni
go-INF
ogbie-we
moose-ACC
hero road middle-DAT-3SG
wa:-ni, ogbie bogo-wo-ni.
'The hero was walking and on half way he killed a moose, a FAT
moose.' (SKX 186)

```

However, this condition does not seem to be very strong. Sometimes modifier raising is available in the same contexts where a non-raising adjective-noun construction is used. For example, in (1784a) a regular noun phrase (sayta mamaka 'old woman') is coordinated with a moidifier-raising construction (ni:nta santa-ni 'old man'). The same is in (1784b).
\begin{tabular}{|c|c|c|c|c|c|}
\hline (1784) a. & Santa ma
old & \begin{tabular}{l}
mamaka \\
old.woman
\end{tabular} & ni:nta man & \begin{tabular}{l}
savta-ni \\
old-3SG
\end{tabular} & uli water \\
\hline & kä:-la-ni & xene & 'e-si & ut'asi & Luךie-tigi \\
\hline & edge-LOC-3SG & & P.SS & then & Lungie \\
\hline & xeyki-si--ti. & & & & \\
\hline & bow-IM-3PL & & & & \\
\hline & 'An old woman bow to Lungie. & an or an old .' (SK 1043 & n knee & down nea & ar the water and \\
\hline
\end{tabular}
```

b. Ninta sa\etata-ni bi-mi abuga bi-ze-i,
man old-3SG be-INF father be-SUBJ-2SG
sa\etata a:nta-ni bi-mi eni\etae bi-ze-i.
old woman-3SG be-INF mother be-SUBJ-2SG
'If you are an old man, be my father, if you are an old woman, be
my mother.' (SKX 224)

```

The raised modifier acquires the following head properties: (i) it is an obligatory constituent of the clause; (ii) it bears morphological markers that show the external syntactic relations of the noun phrase in the clause (case markers); (iii) it is located in a typical head position, that is, phrase-finally; and (iv) it is marked by the possessive affix in the same way as the head of the possessive phrase (13.1), which suggests that the initial head nominal is demoted to the position of possessor. The structure of the noun phrase with the raised modifier is as follows:
(1785) noun - modifier + the case marker + the \(3^{\text {rd }}\) person personal affix -ni

The following modifiers undergo raising: adjectives (24.2.2.1.1), certain quantifiers (24.2.2.1.2), and the relative clause. The internal relative clause (the "topicalizing" relative clause) was discussed in 19.2. The information structure requirement that conditions this type of relative clause is basically the one that conditions the raising of other modifiers, namely, the topicalization of the head noun. Most quantitative nouns with a partitive meaning (13.3.3.2), numerals, possessive modifiers (13.1), modifiers expressed by a postpositional phrase (13.5), or the oblique-case noun (13.6) do not undergo raising, although some of them may be postnominal.

When the raised modifier construction is in its turn the head of the possessive phrase, the possessive affix \(-n i\) is replaced by the possessive affix that refers to the possessor of the possessive phrase. In (1786b) the raised quantificational noun (tie 'pair') bears the \(2^{\text {nd }}\) person personal marker, cf. the regular construction (1786a).
(1786) a. \begin{tabular}{l} 
si tie kolo-wo-i \\
b. \begin{tabular}{l} 
<you pair mitten-ACC-2SG> \(>\) \\
si kolo tie-we-i \\
<you mitten pair-ACC-2SG> \(>\)
\end{tabular}
\end{tabular} 'your pair of mittens' (ACC)

\subsection*{24.2.1.1.1. Adjectival modifier raising}

In (1787) we exemplify postnominal adjectival modifiers that bear the \(3^{\text {rd }}\) person personal marker -ni and a case affix indicating the syntactic role of the noun phrase. In these examples, adjectival modifiers bear new information (are
in focus), and the head noun is part of a pragmatic presupposition, i.e. (a part of) the topic. In addition the raised adjectival modifier may express a high degree of the quality, as in (1788).


\subsection*{24.2.1.1.2. Quantifier raising}

Scalar quantifiers egdi 'many, much', wac'a 'little, few', xa: 'some' are raised under the same conditions as adjectives, and form the same construction, cf.:
(1789) a. Bu ni: egdi-tigi-ni ŋепе-mu. we man many-LAT-3GS go-1PL.EX 'We visit many people.'
b. Eineri ni: egdi-ni.
today man many-3SG
'There are many people today.'
The raising of the universal quantifier teu (11.2.2.1) is fairly frequent.
\begin{tabular}{llllll} 
a. & Ni: teu-ni & zeu-we & diga-wa & ca:la \\
man all-3SG & food-ACC & eat-ACC & like
\end{tabular}
\(\begin{array}{lllll}\text { d. } & \text { Ni: } & \text { teun-tigi-ni } & \text { lauli-mi } & \text { gusi--ni. } \\ & \text { man } & \text { all-LAT-3SG } & \text { dance-INF } & \text { play-3SG }\end{array}\)
'He is playing, dancing for all the people.'
Some quantitative nouns with a partitive meaning (13.3.3.1) can undergo raising as well.
(1791) omo kolo tie-ni 'one pair of mittens'
<one mitten pair-3SG>

\subsection*{24.2.1.1.3. Lack of possessive marking}

In particular cases the raised modifier is not marked for the \(3^{\text {rd }}\) person Singular, although otherwise the construction remains the same: the modifier is phrase-final and takes case markers indicating the role of the phrase in the external syntax. The lack of possessive marking is typically observed when the adjective modifies the indefinite pronoun (either the specific indefinite pronoun
\(j^{\prime} e u-k e(9.6 .1)\) or the non-specific indefinite pronoun j'eu-de (9.6.2)), although for neither is the possessive affix totally impossible, as shown in (1793).
(1792) a. Bi ise-mi j'eu-ke xulaligi bi:-ni. me see-1SG what-IND red be-3SG 'I can see: there is something red.'
b. J'eu-ke seuni-we t'osi-e-ni
what-IND scary-ACC dream-PAST-3SG must
'He must have dreamt about something scary.'
c. Gazi-je min-du j'eu-de
bring-IMP.2SG me-DAT what-IND
uligdig'a-we-de.
beautiful-ACC-FOC
'Bring me something beautiful.'
(1793) a. Bu-je \(\min -d u \quad j ' e u-d e\)
give-IMP.2SG me-DAT what-IND
xekui-we-ni.
strong-ACC-3SG
'Give me something strong.'
b. Bi ise:-mi j'eu-ke c'aligi-we-ni.
me see.PAST-1SG what-IND white-ACC-3SG
'I saw something white.'
The content components of the compound adjectives (6.4.4) when raised within the noun phrase are never marked with the \(3^{\text {rd }}\) person possessive marker (1794). This also applies to some other adjectives (1795).
\begin{tabular}{|c|c|c|c|}
\hline \multirow[t]{2}{*}{Gengem slim} & xulu & mo:-ni & tondom \\
\hline & .tree & tree-3S & straight \\
\hline \multicolumn{4}{|l|}{bede} \\
\hline \multicolumn{4}{|l|}{like be.PRES.HAB} \\
\hline \multicolumn{4}{|l|}{'She is slim like a straight ash-tree.' (SKX 188)} \\
\hline Guas'a-ni bitch-3SG & toči-ñeñ thin- AD & xukti-e-ni run-PA & \\
\hline 'His very th & bitch & nning.' & \\
\hline
\end{tabular}
\begin{tabular}{lllll} 
(1795)a. & Bi si in'ei bubu-we & sise:-mi. \\
& me you dog alike-ACC & see.PAST-1SG \\
& 'I saw a dog like yours.' &
\end{tabular}
b. Bi sono seuni:-ŋku-we
me bear frightful-PL-ACC ise:-mi.
'I saw frightful bears.'
c. Bi ise:-mi zueze xegie-ni
me see-1SG house place.below-3SG
keŋku-we.
empty-ACC
'I saw the empty place under the table.'
d. E:xi-we ja: ñoligi-zi o:-iti. frog-ACC eye green-INST make-3PL
'They make a frog with green eyes.' (SK 397)
e. Omos'o inamukta-i boktoli tugbo:-ni. one tear-REF round drop.PAST-3SG
'He dropped one round tear.' (SKX 218)
Finally, the quantifiers teu 'all' and egdi 'a lot, many, much' may raise without being marked for the \(3^{\text {rd }}\) person Possessive.
(1796) a. \(\begin{aligned} & \text { Ni: } \\ & \text { man }\end{aligned} \quad \begin{aligned} & \text { teu } \\ & \text { all }\end{aligned} \quad \begin{aligned} & \text { min-e-we } \\ & \text { me-0-ACC }\end{aligned} \quad \begin{aligned} & s a-d u . \\ & \text { know-PL }\end{aligned}\)
'Every man knows me.'

'All of my children are healthy.'
\(\begin{array}{llll}\text { d. } & \text { Bi } \bar{n} \text { 'aula } & \text { egdi-du } & \text { bu-o:-ni } \\ \text { me child many-DAT give-PAST-3SG } & \text { konfeta-wa. } \\ \text { candy-ACC } \\ & \text { 'I gave candy to many children.' } & \end{array}\)
24.2.1.1.4. Number agreement in the phrase with a raised modifier

The rules of number agreement within the phrase with the raised modifier do not seem to differ from those that operate in the regular noun phrase (Chapter 13). The controller of agreement is the noun. Although plurality does not have to be morphologically marked on the noun itself, a semantically Plural noun triggers a Plural affix on the adjective, see the following example and also (1795b).
(1797) Min-du
me-DAT
'They brought me new wood.'
uŋkäla:-ti.
carry.PAST-3PL
mo: new-PL-ACC .
jaktuna:-ni. kindle.PAST-3SG ce and lit the fire.'

When the noun is formally in the Plural, number agreement is obligatory (cf. 13.2.2).

\subsection*{24.2.1.2. Discontinuous constituents}

Discontinuous noun phrases appear in two cases: (i) when the modifier is in focus and located strictly preverbal, while the head noun is postposed; (ii) when the modifier stands at the end of the sentence, after the finite verb.

\subsection*{24.2.1.2.1. Adjectival modifier in focus}

According to the general principle of Udihe word order (24.1), the focused constituent occupies an immediately preverbal position. Modifiers, when they bear a strong (contrastive) focus, may be located preverbally, while the head noun marked for case is postposed. Such a construction is mostly typical of different kinds of quantifiers and will be referred to as "quantifier float" (24.2.2.2.2), however, adjectival modifiers are also attested in focus position. Examples (1798b) illustrates a discontinuous adverbial clause.
```

(1798)a, Seuni: seuni: xulis'e guy-ki-ni
wful awful come.PERF say-PAST-3SG
Zaydalafu tene-le.
Zandalafu CONT-FOC
'She said: the AWFUL Zandalafu came.' (K 105)
b. Caixi e-zi xuli au\etaa-digi.
far NEG-IMP.2SG go night.shelter-ABL
'Don't go FAR AWAY from the night shelter.' (SK 252)

```

\subsection*{24.2.1.2.2. Quantifier float}

The floated quantifier always has a morphologically bare Nominative form, as distinct from the constructions where the postposed quantifier agrees in case with the head nominal (13.3.6). The floated quantifier, therefore, behaves morphologically as an unchangeable adverb rather than an adjective or other determiner.

The quantifiers that undergo floating are: the universal quantifiers \(t e u\) and \(k a ̈ u\) (in the Northern dialect) 'all', the scalar quantifiers \(l a \ddot{(s i})\), egdi, and \(t a ̈(s i)\) 'many, much, a lot', and - less frequently - some quantitative nouns with partitive meaning (13.3.3). Floated quantifiers do not inflect for case.

The floated quantifier is located in the immediately preverbal position and bears the focus function. Quantifier float is normally triggered by the subject, as shown in (1799) or the direct object, as in (1800). It seems that grammatical
relations other than the subject and the direct object cannot trigger quantifier float. Typically the head noun immediately precedes the quantifier, but this is not necessary so. It may be postposed after the verb (1801).

\[
\begin{array}{lllll}
\text { f. } & \text { egdi } & \text { lagbay-ki } & \text { bi-mi siekte ... } \\
& \text { much } & \text { stick-PP } & \text { be-INF thread }
\end{array}
\]
'if there were a lot of thread that had stuck ....' (SK 1096)

\subsection*{24.2.1.2.3. Extraposed modifier}

The modifier that is located discontinuously from its head at the right edge of the clause is usually separated from the rest of the sentence by a pause, and bears a rising intonation. Formally constructions with the extraposed modifier are completely identical to the constructions with the non-adjacent relative clause (19.3). The extraposed modifier normally takes the case marker that indicates the syntactic role of the head nominal, but does not take a possessive suffix. Cf. construction (1802a) with modifier raising and (1802b), where the modifier is extraposed:
```

(1802)a. Bu-je min-du j'eu-de
give-IMP.2SG me-DAT what-IND
xekui-we-ni.
hot-ACC-3SG
'Give me something hot.'
b. Min-du j'e-we-de
me-DAT what-ACC-IND
xekui-we-de.
hot-ACC-FOC
'Give me something hot.'

```

Since the head nominal within the clause is marked for case, its syntactic role is indicated twice in the sentence. We only have examples of the Accusative and Nominative noun phrases with postposed modifiers at our disposal. The head noun controls the Plural marking on the postposed modifier, as in (1804b) below. It is not entirely clear, however, whether we are here dealing with an instance of attributive agreement, or whether the modifier is clause-external and should be analyzed as substantivized.

There seem to be two forms of modifier postposing. The first is motivated by information structure considerations, namely, the afterthought status of the postposed element. By "afterthought" we mean an element added after the completion of the sentence to clarify an element of the clause, such as, for example, sagdi bäsa-la 'a large river' in (1803a) or uti ninta-wa 'that man' in (1803b).

b. \(\begin{array}{lcl}\text { Uti mo:-ni-ni } & \text { bue-we-ni } & a: k t a-m i \\ \text { that tree-AL-3SG } & \text { he-ACC-3SG } & \text { chase-INF } \\ \text { tukte-li-e-ni, } & u t i & \text { ninta-wa. } \\ \text { beat-INC-PAST-3SG } & \text { that } & \text { man-ACC }\end{array}\) mer
'The wooden sticks began to chase him, they began to beat this man.'

The most common situation, however, is when the modifier alone is postposed as an afterthought element. Typically it "doubles" the case marking of the head nominal, as in (1804), however, it may also appear unmarked for case, as in (1805). In the latter case we may in fact be dealing with a coordinated construction (see 18.1.2.2).

\begin{tabular}{llll} 
b. & Ni wo:-ni & tege-ne-i & ketu \\
who make.PAST-3SG & gown-DEST-2SG & very \\
uligdig'a? & & \\
beautiful & & \\
'Who made you a dress, a very beautiful one?' (K 163)
\end{tabular}

The second case of the modifier extraposing is conditioned by formal considerations (the "heavy" modifier). "Heavy" modifiers are those that take an argument: two-place adjectives (6.3.2), postpositional phrases (10.2.3), and the negative modifier (18.1.2.2.2). Although they are not excluded from a head-adjacent position (see the examples in the corresponding sections), a strong tendency is observed for them to be located discontinuously. In (1806) we illustrate adjectives that take an oblique argument, and in (1807) postpositional phrases. In the latter case, the discontinuous modifier is normally unmarked for case. However, in (1808) the postposition takes a case marker.
```

(1806)a.
Bi ni:-we
me man-ACC
ise:-mi see.PAST-1SG
bubui-we.
like-ACC
'I saw a man looking like my father.'
b. Bi in'ei-we ise:-mi si
me dog-ACC see.PAST-1SG you
in'ei-digi-de manga-wa.
dog-ABL-FOC strong-ACC
'I saw a dog stronger than yours.'
(1807) a. $\quad \mathrm{Bi}$ ise:-mi $\quad$ n'aula-wa Iwana bubu.
me see.PAST-1SG child-ACC Ivan like
'I saw a child looking like Ivan.'
b. Bi abuga-i ise:-mi Iwana zuye.
me father-1SG see.PAST-1SG Ivan both
'I saw my father with Ivan.'

| Galak |  | wa-li-la-mi <br> kill-INC-PURP-SS | manga ni:-we, <br> strong man-ACC |
| :---: | :---: | :---: | :---: |
| men-e | kui: | bede-we. |  |
| REF-0 | streng | .REF like-ACC |  |
| 'I am me.' (S | king f | $r$ a strong man to fig | , (a man) equall | me.' (SK 881)

```

\subsection*{24.2.1.3. Summary of the structure of the noun phrase}

The table below presents different patterns of the structure of the non-possessive noun phrase with a possible information structure motivation. Patterns (1809c) and (1809d) are instances of the discontinuous noun phrase, which is shown with the symbol V (verb) intervening between its components.
possible information structure
motivation
informationally unstructured
noun phrase
topicalized noun
modifier in focus
afterthought modifier

\subsection*{24.2.2. Information structure in destinative constructions}

In the regular possessive destinative noun phrases in the object role the head noun (the destinative object) encodes the person and number of the possessive modifier (the benefactive) by means of personal agreement affixes, see 13.1.

\subsection*{24.2.2.1. Topicalized object}

The topicalized destinative object is encoded twice in the sentence: first within the regular destinative noun phrase, second, as the Accusative direct object promoted to sentence-initial position. Cf. (1810a), which illustrates the regular destinative construction, and (1810b) where the topicalized object is encoded with the Accusative noun phrase ei suese-we 'this axe'.
a. Men-e
REF-0 younger.sibling-REF wo:-mi.
make.PAST-3SG
'I made an axe for my younger brother.'
\begin{tabular}{lll} 
b. & Ei suese-we & men-e \\
this axe-ACC & REF-0 \\
suese-ne-ni & wo:-mi. \\
axe-DEST-3SG & make.PAST-1SG
\end{tabular}
'This axe, I made it for my brother.'

The topicalized left-dislocated Accusative noun phrase is normally separated by a pause from the rest of the sentence, and should perhaps be analyzed as clause-external, cf. also the following example:
```

(1811)Ei zugdi-we bi anda-i zugdi-ne-ni
this house-ACC me friend-1SG house-DEST-3SG
wo-iti.
make-3PL
'This house, they are building it for my friend.'

```

\subsection*{24.2.2.2. Modifier in focus}

If the destinative object takes a modifier other than the destinative modifier (for example, an adjective) it may be focused. As was argued in 24.1.1, the major requirement of Udihe word order is the preverbal position of the focus element, with the result that certain focus modifiers must be placed in the preverbal position. This results in the discontinuous noun phrase (24.2.1.2). For destinative constructions another strategy applies: the focus modifier within the destinative noun phrase does not occupy the strictly preverbal position, but modifies the Accusative object located in the preverbal position. The object, therefore, is syntactically "doubled" as the Accusative object located in the preverbal position and as the Destinative object (normally clause-initial). The latter corresponds to the presuppositional (topical) part of the utterance.
```

(1812)a. Bi men-e suese-ne-mi aja suese-we
me REF-0 axe-DEST-REF nice axe-ACC
ga:zi-e-mi.
bring-PAST-1SG
'As for an axe for myself, I brought a nice one.'
b. Seudi-ne-i ñamai seudi-we
kerchief-DEST-1SG warm kerchief-ACC buy-IMP.2SG
'As for the kerchief for me, buy a warm one.'
c. Bi men-e ami-mi tege-ne-ni
me REF-0 father-REF gown-DEST-3SG
seule-me sexi-we gazi-e-mi.
silk-ADJ cloth-ACC bring-PAST-1SG
'As for the clothes for my father, I brought a silk cloth.'
d. Pakula ugda-na-mi imexi-we
Pakula boat-DEST-REF new-ACC
wo:-ni.
make.PAST-3SG
'As for the boat for Pakula, he made a new one for himself.'

```
```

e. Ulikte dili-ne-ni kuliga dili-ni
lard head-DEST-3SG snake head-3SG
duo-ni wo-iti.
shape-3SG make-3PL
'As for the lard's head, they make (it in the) shape of a snake's
head.'

```

\subsection*{24.2.2.3. Topicalized benefactive}

The topicalized benefactive (the destinative modifier) is raised out of the modifier position within the destinative noun phrase and encoded by the independent Dative noun phrase. Obviously, it cannot be omitted from the sentence like a regular (non-topicalized) destinative modifier. The possessive modifier within the destinative noun phrase itself is absent but anaphorically referred to by means of the possessive affixes. Cf. (1813a) and (1813b).
\begin{tabular}{ll} 
Bi au-na-ni & gada:-mi. \\
me cap-DEST-3SG, & buy.PAST-1SG \\
'I bought him a cap.' &
\end{tabular}
b. Bi nuan-di-ni au-na-ni
me he-DAT-3SG cap-DEST-3SG
gada:-mi.
'For him, I bought a cap.'
More example examples are:


\subsection*{24.2.2.4. Summary on information structure within the destinative noun phrase}

Below we present the patterns of organization of the possessive destinative constructions with possible information structure motivations. Symbol B here refers to the noun phrase that corresponds to benefactive (the potential recipient of the destinative object), O denotes the object noun).
a. [B O + DEST + possessive]
informationally
unstructured noun phrase
b. \([\mathrm{O}+\mathrm{ACC}][\mathrm{B} \mathrm{O}+\mathrm{DEST}+\) possessive \(]\) topicalized object
c. \([\mathrm{BO}+\mathrm{DEST}+\) possessive \(][\) modifier \(\mathrm{O}+\mathrm{ACC}]\) modifier in focus
d. \([\mathrm{B}+\mathrm{DAT}][\mathrm{O}+\mathrm{DEST}+\) possessive \(]\) topicalized recipient

\subsection*{24.3. Information structure in copular constructions}

On the regular structures of copular constructions see Chapter 17.
24.3.1. Intensifying the adjective

In adjectival copular constructions (17.2.2.1.1), the predicative adjective may take the \(3^{\text {rd }}\) person personal marker \(-n i\). This situation expresses a certain semantic and perhaps information structure content, namely, the high degree of the feature denoted by the adjective, cf. the attributive adjectives that use the same device for the same purpose (24.2.1.1.1). Sentence (1816d) is an example of the Resultative Participle in the predicative position. The affix -ni here intensifies the meaning of the adjective.
(1816) a.
\begin{tabular}{llll} 
Bi & sita-i & ketu & pag'a-ni. \\
me & son-1SG & very \\
stupid-3SG
\end{tabular}
    'My son is very stupid.'
    b. Käya kuaja-ni.
    deer fast-3SG
    'The deer is very fast.'
    c. Zua xekui-ni.
    summer hot-3SG
    'The summer is very hot.'
    d. Tege guzaga-na-ktu-ni.
    gown tear-DIST-RES-3SG
    'The gowns are all torn up.'
    e. Ei zä: sagdi-ni.
    this coin large-3SG
    'This coin is (very) large.'
```

f. Kuliga egdi-ni. snake much-3SG
'There are a lot of snakes.' (SK 1097)

```

\subsection*{24.3.2. Topicalized subject}

The topicalized subject of copular constructions may be repeated twice within the sentence: first, in the clause-initial position as the subject, second, as the predicative element. The predicative word of the initial copular construction is demoted to the modifier position. For example, the construction (1817b) with the topicalized subject Olono wo:-ni 'Olon mountain' is syntactically derived from the regular copular construction (1817a). The predicative part gugda wo: 'high mountain' in (1817b) consists of the modifier gugda 'high' which corresponds to the initial predicate and the "doubled" subject wo: 'mountain'.
(1817) a. Oloyo wo:-ni gugda.

Olon mountain-3SG high
'Olon mountain is high.'
b. Olono wo:-ni gugda wo:.

Olon mountain-3SG high mountain
'As for Olon mountain, it is high.'
(1818)Uti ni: aja ni:.
that man nice man
'That man is nice.' (SK 82)
A range of copular constructions behave in this way: adjectival and nominative constructions (24.3.2.1), destinative constructions (24.3.2.23), and alienable possessive constructions (24.3.2.2).

\subsection*{24.3.2.1. Adjectival and Nominative constructions}

Examples of adjectival and nominative copular constructions with the topicalized subject are presented in (1819) and (1820) respectively.
\(\begin{array}{llll}\text { (1819)a. } & \text { Bi zugdi: } \quad \begin{array}{l}\text { mo:-mo } \\ \\ \\ \text { me house.1SG }\end{array} \quad \begin{array}{l}\text { zugdi. } \\ \text { tree-ADJ }\end{array} \text { house }\end{array}\)
'As for my house, it is made of wood.'
b. Ei bäsa aja bäsa.
this river nice river
'As for this river, it is nice.' (K 154)
c. Ei 'ana imexi 'ana.
this boat new boat
'As for this boat, it is new.'
(1820)a. Ei mo: kuŋka mo:-ni bi:-ni.
this tree cedar tree-3SG be-3SG 'As for this tree, it is a cedar.'
b. Ei ñ'aula udie ñ'aula-ni bi:-ni. this child Udihe child-3SG be-3SG 'As for this boy, he is Udihe.'

\subsection*{24.3.2.2. Alienable possession constructions}

In alienable possession copular constructions the predicative word corresponds to the noun with the alienable possession suffix -ni- (17.2.2.3). Such a noun does not function attributively. Therefore in constructions with the topicalized subject, the possessive modifier within the predicative noun phrase is expressed by the regular Nominative noun, cf.:
\[
\begin{array}{llll}
\text { (1821) } \mathrm{Ei} \text { zugdi bi anda-na-i } & \text { zugdi-ti. } \\
\text { this house me friend-PL-1SG } & \text { mouse-3PL } \\
\text { 'As for this house, it is my friends' house.' } &
\end{array}
\]

\subsection*{24.3.2.3. Destinative constructions}

In the destinative copular constructions (17.2.2.2.1) the possessive destinative noun phrase in the predicative function expresses the designation of the subject participant ('as my daughter', 'as our servant', etc.). In constructions with the topicalized subject, the predicate corresponds to the destinative phrase, where the head (the noun in the Destinative case) lexically repeats the subject.
\[
\begin{aligned}
& \text { (1822) } \mathrm{Ei} \text { au bi abuga-i } \quad \text { au-ne-ni. } \\
& \text { this cap me father-1SG cap-DEST-3SG } \\
& \text { 'As for this cap, it is for my father.' }
\end{aligned}
\]

\subsection*{24.4. Topicalization of other constituents}

\subsection*{24.4.1. Extra-clausal topic}

Generally speaking, an extra-clausal topic promoted to the beginning of the sentence is not typical of Udihe, however, such a construction is available in rare cases. Sentences (1823) are examples of colloquial speech where the
topicalized constituents corresponding to the possessor are extracted from the clause. The topicalized elements are separated by pauses from the rest of the sentence. The possessed noun phrase bears the possessive marking which anaphorically refers to the topicalized possessor.
```

(1823)a. Tukti-ǩ̌e-i getu nuati gä:ma-ti gula
climb-INT-PRP PL they bone-3PL rock
xegien-du-ni bie.
bottom-DAT-3SG be.PRES.HAB
'As for those who wanted to climb, their bones are at the bottom of
the rock.' (SKX 98)

```
b. Biatu-ziga kawa do-nigi-ni keje-ti
    Biatu-PL tent inside-ABL-3SG voice-3PL
    dio-pto:-ni.
    hear-DEC.PAST-3SG
    'As for Biatu, their voices were heard from inside the tent.'
    (SKX 88)
c. Ni: bo:kto-zi su:le-i getu nua-ni
    man kidney-INST be.sick-PRP PL he-3SG
degdi-ni xumnal-xumnal bie.
face-3SG pale-pale be.PRES.HAB
'Those people who have kidney disease, their faces are very pale.'
(SK 1017)

More regularly the possessive modifier can be topic-promoted out of the possessive copular construction, in which case the possessive marking on the predicative noun is missing and he construction can perhaps be reinterpreted as an existential construction (17.2.1.3).
(1824) a. Nua-ni ila ke: in'ei bie.
he-3SG three vicious dog be.PRES.HAB
'As for him, he has three vicious dogs.'
(literally: 'As for him, there are three vicious dogs.')
b. Bi mamasa-i uligdig'a-i ñukte
me wife-1SG beautiful-FOC hair
bi-s'e.
be-PAST.HAB
'As for my wife, she had beautiful hair.'
(literally: 'As for my wife, there was beautiful hair.')
Subject topicalization may be expressed by means of the Infinitive of the verb \(b i\) - 'be' bi-mi (which is also used as a lexicalized time adverb, typically at the beginning of the sentence, see 10.1.2.2). This is mostly typical of the Northern dialect.
```

(1825)a.
Mo:
tree
bi-mi o:kto bi-mi
grass be-INF
tu: lu:
all bright
zegde-ini.
burn-3SG
'The trees, the grass, they are all burning very brightly.' (SKX 92)
b. Tege-ni
bimi
bul'-bul
oño-mo.
gown-3SG be-INF equal-equal ornament-ADJ
'His gown, it is (covered) with equal ornaments.' (SK 191)
c. Tukca:-si ima:-si bi-mi, tukca bi-mi-
hare-DIS snow-DIS be-INF hare be-INF
caligi, ima: bi-mi- xu\etauligi
white snow be-INF grey
'Either this is a hare or snow; for a hare it is (too) white, for snow, it is (too) grey.' (SK 368)

```
24.4.2. Topicalization by means of the Infinitive

The Infinitive in the beginning of the sentence may serve to topicalize the concept denoted by this verb. It is either the same verb as the main verb (1826) of differs from it (1827).
```

(1826) a. Uta bede gusi-mi egdi ni: gusi-ti.
that like play-INF many man play-3PL
'As for this game, a lot of people play.' (SKX 304)
b. Oño-wo
ornament-ACC
oñ-wo o:-i.
ornament-ACC make-PRP
'As for making ornaments, they make all sort of them.' (SK 732)
c. Wa:-mi-ke e-zi wa::
kill-INF-FOC NEG-IMP.2SG kill
'As for killing, don't kill (anybody).' (Schneider 1937: 82)
d. Bu:-m(i)-de bu-te-m(i)-ze.
give-INF-FOC give-PERM-1SG-HORT
'As for giving (it), OK, I will give (it).' (Schneider 1937: 86)
(1827)Gusi-mi mafa-g'asi:-ti, nakta-g'asi:-ti.
play-INF bear-V-3PL boar-V-3PL
'As for playing, they play bear (hunting) and boar (hunting).'

```

\section*{Chapter 25 \\ Texts}

In this chapter we provide samples of the orthography that has been used to render the Udihe materials, namely, the Latin-based orthography of Schneider (text no. 1), the partly phonetic transcription based on Cyrillic which Kormušin (no. 2) and Sunik (no. 3) have adopted, the official Udihe orthography established by Simonov for the Northern dialect, on which see section 1.6.3 (text no. 4), and the Cyrillic orthography of Perexval'skaja (no. 5). Unless indicated otherwise, for these texts we have wholly preserved not only the orthography but also the punctuation and the paragraph divisions of the original sources. For technical reasons, the character \(\dot{I}\) here stands for a velar fricative \(\gamma\) reportedly present in the Northern dialect, and the character \(\eta\) stands for a velar nasal. We apply them instead of other Cyrillic-based symbols used in the sources. We have also provided versions of these texts in our own phonological transcription, with glosses. The second part of the chapter (nos. 6-14) comprises texts recorded in the course of our fieldwork among the Bikin Udihe. They are published here for the first time. Consequently, texts no. 1-4 represent the Northern dialect, while all the other texts are from the Southern (Bikin) dialect.
In texts 6-11 we have used the following conventions. Unlike in the main text of the grammar, in this chapter we have marked "stylistic" phonological variations (see 2.1.5), such as vowel reduction (a reduced vowel is included in brackets) or vowel lengthening. Certain allophonic, free and idiolectal phonetic variations may also be reflected; on these see 2.1.3, 2.1.4, 2.2.3. Thus we were trying to preserve the individual properties of the speaker to some extent, remaining within the phonological transcription as much as possible. The symbols used are as follows:
\{ \}Russian words that are not integrated into the language, or occasionally entire sentences when the speaker slips into Russian. The same symbol marks the corresponding word in the translation. However, if the Russian word doubles a Udihe word in the same grammatical function, it is not repeated in the translation.
[] Passages of the text added by another speaker while listening to the text.
... Places that remained unclear.
<> Occasions when the storyteller accidentally uses one word instead of another and normally corrects himself or herself afterwards.
() In the Udihe text the brackets indicate parts of the word omitted by the speaker. In the translations they show words that do not have a counterpart in the Udihe sentence, as is the usual practice in this grammar.

The translations are neither entirely free, nor entirely literal. We have left some interjections untranslated, and also the "replacing" indefinite particle ayi, which is used when the speaker is looking for the right word (9.6.4.4).

\section*{1. Kuti 'Tiger' (Čarušin 1935: 17)}

Minti buadifi kuti wac'a bie, namahi buadu-tene əgdi. Kuti nāngi dīnkini bihini. Ijaktani soligizi, p'aligizi kedəņөņe ōi. Utəmi mōkt'oi, ōkt'oi donini utawa ouji ise.

Keige zugdidu sipəwө wākcaini, kahi bua xuəndini oloxiwo wākcaini, kuti-tənə naktawə wākcaini, nī 'owəni - mujiwə, jehæwe-də, xōntowə-də wāini. Nīwe-de wāini. Slonozi-tene kuti ŋeleini. N̦amahi buadu wākcai nī slonolo ūykasi, kutiwe wākcaiti, xaisi nāwe-de xoktodini ulaiti tiymələgəni.
\begin{tabular}{llll} 
Minti bai-di-fi & kuti & wac'a & bie, \\
we place-DAT-1PL.IN & tiger & few & be.PRES.HAB \\
warm
\end{tabular}
ba:-du tene egdi.
place-DAT CONT many
There are few tigers in our forests, but in warm countries there are many of them.
\(\begin{array}{llll}\text { Kuti } & \text { na:ngi } & \text { di:yki-ni } & \text { bihi-ni. } \\ \text { tiger } & \text { manchu.bear } & \text { size-3SG } & \text { be-3SG }\end{array}\)
The tiger is similar in size to the Manchu bear.
\begin{tabular}{lllll} 
Inakta-ni & soligi -zi & p'aligi-zi & kede-ñeñe & \(o:-i\). \\
fur-3SG & orange-INST & black-INST & stripy-ADJ & make-PRP
\end{tabular}

Its coat has orange and black stripes.
\begin{tabular}{lllll} 
Utemi & mo:kt'oi & o:kt'oi & do-ni-ni \\
therefore & bushes & \begin{tabular}{l} 
grasses \\
ise.
\end{tabular} & inside-DAT-3SG & \begin{tabular}{l} 
uta-wa \\
that-ACC
\end{tabular} \\
e-u-ji & & \\
NEG-PAS-PRP & see
\end{tabular}


The cat hunts for mice in the house, the marten hunts for squirrels in the forest, and the tiger hunts for boars and kills men's domestic animals, horses, cows and others.

Ni:-we-de wa-ini.
man-ACC-FOC kill-3SG
It also kills men.
Slono-zi tene kuti jele-ini.
elephant-INST
CONT tiger be.afraid-3SG
But it is afraid of the elephant.
\begin{tabular}{lllll} 
Namai & ba:-du & wakca-i & ni: & slono-lo \\
warm & place-DAT & hunt-PRP & man & elephant-LOC \\
u: \(\eta\)-ka-si & & kuti-we & wakca-iti, & xaisi \\
sit-PERF-PC.SS & tiger-ACC & hunt-3PL & also \\
na:-wa-da & xokto-di-ni & \multicolumn{2}{c}{ ule-iti } \\
ground-ACC-FOC & road-DAT-3SG & dig-3PL
\end{tabular}
tiyme-lege-ni.
fall-PURP-3SG
In warm countries hunters sitting on elephants hunt for tigers, and they also dig (holes) in the ground on the roads so that the tiger falls inside.
2. Ada 'Crossing the mountain' (Kormušin 1998: 14)

While rendering Kormušin's transcription we have removed some diachritic signs.

Хоно буатиги уэлэми кæмбувасуйи. зэуŋич, мэнэ а’пти кеукæмбувасийти, зевэ уэлэми. Кæмбувасефи амæлан' сэхи раһизини хулайти. зеуэни хулами диганайти. Мэнэ най завайти хоŋто улилэ ŋэнэ. Уливэ умилэми мэнэ нађиzи солийти, согила'си умийти. Эмугдэй элэгэни уний. Кæмбуга войти. Ади ни бими, адима войти. Кжмбуга золони зара нэдэйти, йалаһ, утадиги зэувэ, а’пти нэдэйти. Буатиги диганам диганам

кэси гэлийти. Уйолони сээке нэдэйти. Сэŋке, зэу - кеу зэгдийни. Ни хэүкийни:
- Эзи-дэ сулэвэнэ, айанзи ва:ксаванЗайи, н’Үhөíи-дэ айа ванзэйи, кэси биванзи.
\[
\begin{array}{lcc}
\text { Xonto bua-tigi } & \text { we:-le-mi } & \text { kämbu-wasi-u-ji. } \\
\text { other place-LAT } & \text { mountain-V-INF } & \text { sacrifice-DIS-PAS-PRP } \\
\text { Crossing the mountain (going) to another place one makes a sacrifice. }
\end{array}
\]

Zeu-yi:, men-e 'apti käu kämbu-wasi:-ti
food-AL.REF REF-0 provisions all sacrifice-DIS-3PL
zie-we we:-le-mi.
crest-ACC mountain-V-INF
They sacrifice all their food and provisions while crossing the crest of a mountain.
\begin{tabular}{llr} 
Kämbu-wasi-e-fi & amä:-la-ni & se:xi \\
sacrifice-DIS-PP-SS.PL & after-LOC-3SG & cloth \\
pahi-zi-ni & xula-iti. \\
piece-INST-3SG & tie-3PL & \\
After making a sacrifice they tie a piece of cloth (to a tree).
\end{tabular}
\begin{tabular}{lll} 
Zie-we-ni & xula-mi & \begin{tabular}{l} 
digan-a-iti. \\
crest-ACC-3SG
\end{tabular} \\
tie-INF & say-0-3PL
\end{tabular}

While tying it on a crest of the mountain they speak.
Men-e na:-i zawa-iti, xoyto uli-le jene.
REF-0 earth-REF take-3PL other river-LOC go
They take (pieces) of their earth and go to another place (literally: river).
\begin{tabular}{lllll} 
Uli-we & umi-le-mi & men-e & na:- \(n i-z i\) & \\
water-ACC & drink-SING-INF & REF-0 & earth-AL-INST.REF & soli--ti, \\
sogil'a-si & & umi:-ti & emugde-i & \\
mix.PERF-PC.SS & drink-3PL & stomach-REF & \\
e-lege-ni & uni. & & \\
NEG-PURP-3SG & hurt & &
\end{tabular}

Drinking water they mix it with their earth, they drink it after having mixed it so that the stomach does not hurt.

Kämbuga wo-iti.
altar make-3PL
They make an altar.
\begin{tabular}{lll} 
Adi ni: & bi-mi adi-me & wo-iti. \\
how.many man & be-INF how.many-ACC & make-3PL
\end{tabular}

How many people there are, so many they make.
Kämbuga zolo-ni zana nede-iti, jalah, uta-digi
altar stone-3SG coal put-3PL coal that-ABL
zeu-we 'apti: nede-iti.
food-ACC provisions.REF put-3PL
They put hot coal on the altar stone, then they put their food, their provisions.
\begin{tabular}{llll} 
Bua-tigi \(\quad\) digan-a-m(i) & digan-a-m(i) & kesi & geli.-ti. \\
place-LAT say-0-INF & say-0-INF & luck & ask-3PL \\
They talk to God, ask for luck. & & &
\end{tabular}

Ujo-lo-ni senkie nede-iti. Senkie, zeu, käu zegdi:-ni.
top-LOC-3SG ledum put-3PL ledum food all burn-3SG
On the top they put some ledum. Ledum, food, everything is burning.


People are bowing (and saying:) "Don't make us ill, make us hunt well, make us kill sables well, make us have luck."

\section*{3. Sukpaj 'The Sukpai' (Sunik 1968:231-232)}

Сукпај б'іаРасадун'i, буа хуэндун'и омосого с'итэ багдіан'і. октомо јатаРуду гэктим'и багдіан'і, чіндаРа дэл'им'и, гэктиду багдіан'і. эн'ин'и тэгэд'ии капттаРас'і зугдітігі газеан'і. уті батава зуаŋчізі гэгб'иŋиэти. кэс'им'и, зобом'і багдеан'i, зуа сугзавӑ дігам'ё, туэ улэвэ дігам'ё, утэ-бэдэ н'інаан'і. имэхи колі одојс'ін'і сагді хотолб татус'інаан'і. татус'іас', эмэг'иэн'и, мэнэ багдіам'і кэсэкчээм'и зіатігіі, утиђэтувэ татус'інађгіан'. мэнэ н'иф'и зулэйхи ŋэнэлэн'и татус'інађан'і. минти зуаŋчі татус'іан’і-бэдэ зулэйхи ŋэнэзэі́эф'и.
Sukpai b'äsa-du-ni \(\quad\) ba: xo:n-du-ni \(\quad\) omo-s'o-go
Sukpai river-DAT-3SG place top-DAT-3SG
sita bage-ADJ-FOC
child be.born-PAST-3SG
On the river Sukpai in the taiga a child was born.
\begin{tabular}{llll} 
Okto-mo & jat'au-du & gekti-mi & bagdi-e-ni, \\
grass-ADJ & birth.tent-DAT & freeze-INF & live-PAST-3SG \\
čind'a & dieli-mi & gekti-du & bagdi-e-ni. \\
bird & fly-INF & freeze-DAT & live-PAST-3SG
\end{tabular}

He was born frozen in a birth tent, in the cold time when birds are flying away.
\begin{tabular}{llll} 
Eni-ni & tege-di: & kapt'a-si & zugdi-tigi \\
mother-3SG & gown-DAT.REF & wrap.PERF-PC.SS & house-LAT
\end{tabular}
gazi-e-ni.
bring-PAST-3SG
His mother brought him home having wrapped him in her clothes.
\begin{tabular}{llll} 
Uti & b'ata-wa & Zuanči-zi & gegbi-pi-e-ti. \\
that & boy-ACC & Zuanchi-INST & call-REP-PAST-3PL \\
They named this boy Zuanchi.
\end{tabular}
\begin{tabular}{llll} 
Kesi-mi & zogbo-mi & bagdi-e-ni, & zua \\
suffer-INF & trouble-INF & live-PAST-3SG & summer \\
sugdä-wa & diga-mie, & tue ule-we & diga-mie \\
fish-ACC & eat-INF & winter meat-ACC & eat-INF
\end{tabular}
ute bede ni:-ne-ni.
that like man-PL-3SG
He lived in sufferings and troubles, in summer he was eating fish, in winter meat, as did (all) his people.

Imexi koli odo-isi-ni sagdixoto-lo
new law become-PC-3SG large city-LOC
tatusi-ne:-ni.
study-DIR.PAST-3SG
When the new power came he went to study in a large city.
\begin{tabular}{llll} 
Tatusi-ge-si & eme-gi-e-ni & & men-e bagdi-e-mi \\
study-PERF-PC.SS & come-REP-PAST-3SG & & REF-0 live-PP-REF \\
kese-kce:-mi & zei-tigi: & uti & getu-we \\
suffer-DUR.PP-REF & kinsman-LAT.REF & that & PL-ACC
\end{tabular}
tatusi-ne-gi-e-ni.
teach-DIR-REP-PAST-3SG
After study he returned to the people with whom he lived suffering, he went to teach them.
\begin{tabular}{llll} 
Men-e ni:-fi & zuleixi & yene-le:-ni & tatusi-ne:-ni. \\
REF-0 man-REF.PL & forwards & go-PURP-3SG & teach-DIR.PAST-3SG
\end{tabular}

He went to teach his people so that they would go forwards.

Minti Zuanči tatusi-e-ni bede zuleixi jene-zene-fi. we Zuanchi teach-PP-3SG like forwards go-FUT-1PL.EX We will go forwards, as Zuanchi was teaching (us).
4. Ibenewe niyka igbe:ni 'How the Chinese drove away the Japanese' (Simonov, Kjalundzjuga, and Xasanova 1998: 320)

Ниŋказиѓa багдиати. Наму буѓасати́́ини эзэти игбэни (вазађази игбэни) омо миŋга нйвэ: хаталава, нинтава, мэнэ чаваи.

Ути-гэту мэнэ сэิзи багдилиати - ибэнэ одоти. Удиэ-бэдэ кавађисими, багдилиати. Амаихи дауми, в‘алилафаи, эсити мутэ. Мэнэ гӯзи мэнэ багдилиати.

Niyka-ziga bagdi-e-ti.
Chinese-PL live-PAST-3PL
The Chinese lived.


Their tsar drove away to a sea island one thousand people, men, girls, women, and his army, because (otherwise) they had to be killed.
\begin{tabular}{lllll} 
Uti & getu & men-e & seh-zi: & bagdi-li-e-ti, \\
that & PL & REF-0 & clan-INST.REF & live-INC-PAST-3PL
\end{tabular}
ibene odo:-ti.

Japanese become.PAST-3PL
They started to live in their own clans and become Japanese.
Udie bede kawa-pisi-mi bagdi-li-e-ti.
Udihe like tent-V-INF live-INC-PAST-3PL
They started living like the Udihe, making (grass) tents.
\begin{tabular}{llll} 
Amäixi & dau-mi & w'ali-la-fai & \(e\) esi-ti \\
backwards & cross-INF & fight-PURP-SS.PL & NEG-PAST-3PL
\end{tabular}
mute.
can
They couldn't go back across (the sea) in order to fight.

Men-e \(\quad g u:-z i\)
men-e bagdi-li-e-ti.
REF-0 way.of.life-INST.REF REF-0 live-INC-PAST-3PL
They started living in their own way by themselves.
5. Ogbö e:xi-de 'Elk and Frog' (Perexval'skaja 1991c: 1-2)

Огбё ө'хи-зуŋә багдиәти. Гә, огбё гунәйни:
- Гөлинигәзөфи, өхәй, минзуŋө. Тукязафи сагди наму өгөлө, ŋиц’а наму өгәлө.
- Гә, тукяза!

Гулиниәти-дө. ө’хи-гдә тәтигәђиәни огбё хөйөтигини. Огбё тукя'ни-ә-ә. Ляси тукя'ни, тукя'ни. Сагди наму өгәлә, ŋиц’а наму өгәлө. Тукя'ни-ә-ә. Дәуми әкә'ни. әкәйси ути әкиндини-дәли ә'хи хәйәдигини хәтигәнә'ни. Огбё диһаңкини:
- a'хей!
- A?
- Айа, кәту мапга бий си. Би гәйө әмәгә'й. Гө, ња гулинәзәфи!

ә'хи ња хәйәтигини. Гә, ња тукя'ни огбё, лоŋцолиги, лоŋцолиги. Тукяй, тукяй. Ња илө-дәлә әкө'ни.
- ә'хәй!
- A?
- Айа, өйни имәму әй ә'хи!

Ња гулиниәни әй-тәнә. Тукя'ни, тукя'ни. әлә, атанами будә'ни-ә-ә огбё.
Ogbö e:xi zuŋe bagdi-e-ti.
elk frog both live-PAST-3PL Once upon a time there lived an Elk and a Frog.
\(\begin{array}{lllll}\text { Ge ogbö } & \text { gun-e-ini } & \text { "Geinige-ze-fi, } & \text { e:xe-i, } \\ \text { well } & \text { elk } & \text { say-0-3SG } & \text { compete-SUBJ-1PL.IN } & \text { frog-VOC }\end{array}\)
min-züe.
me-both
Well, the Elk said: "Frog, let us compete (in running) against each other.
Tukä-za-fi sagdi namu egelie, ŋic'a namu egelie". run-SUBJ-1PL.IN big sea around small sea around Let us run around the big sea, and around the small sea."
"Ge tukä-za!"
well run-SUBJ
"Well, let us run!"

Gulini-e-ti-de.
go-PAST-3PL-FOC
They left.
E:xi-gde xetige-ni-e-ni ogbö xeje-tigi-ni.
frog-CONT jump-REP-PAST-3SG elk forehead-LAT-3SG
And the Frog jumped on the Elk's forehead.
Ogbö tukä:-nie.
elk run.PAST-3SG
The Elk ran.
Läsi tukä̈:-ni, tukä:-ni.
very run.PAST-3SG run.PAST-3SG
It was running very much.
Sagdi namu egelie, yic'a namu egelie.
big sea around small sea around
Around the big sea, around the small sea.
Tukä:-nie.
run.PAST-3SG
It was running.
Deu-mi eke:-ni.
get.tired-INF stop.PAST-3SG
It got tired and stopped.
\begin{tabular}{lll} 
Eke-isi uti & ekindi-ni-deli & e:xi \\
stop-PC & that & when-3SG-CONT \\
xeje-digi-ni
\end{tabular}\(\quad\)\begin{tabular}{l} 
retige-ne:-ni.
\end{tabular}

Ogbö diay-ki-ni "E:xie-i!".
elk say-PAST-3SG frog-VOC
The Elk said: "Frog!"
"A?"
yes
"Yes?"
"Aja, ketu manga bi: si. well very strong be. 2 SG you
"Well, you are very strong.
Bi geje eme-gi-e-i.
me with come-REP-PAST-2SG
You came here together with me.
Ge ña guline-ze-fi!"
well again go-SUBJ-1PL.IN
Well, let us go again!"
E:xi na xetige-yi-e-ni xeje-tigi-ni.
frog again jump-REP-PAST-3SG forehead-LAT-3SG
The Frog jumped again onto its forehead.
\begin{tabular}{lllll} 
Ge \(\quad \bar{n} a \quad\) tukä:-ni & ogbö, & loncoligi & loncoligi. \\
well again run.PAST-3SG elk & long.legged & long.legged \\
Well, the long legged Elk ran off again.
\end{tabular}

Tukä-i, tukä-i.
run-PRP run-PRP
It is running, running.
Ña i:-le-dele eke:-ni.
again what-LOC-IND stop.PAST-3SG
It stopped again somewhere.

\section*{"E:xie-i!" \\ frog-VOC}
"Frog!"
"A?"
yes
"Yes!"
\begin{tabular}{lcl} 
"Aja, e-ini & imemu ei & e:xi!" \\
well NEG-3SG & drop this & frog \\
"Oh, this Frog will not drop off!"
\end{tabular}
\(\tilde{N} a \quad\) gulini-e-ni ei-tene. again go-PAST-3SG now-CONT Then it went again.

Tukä:-ni, tukä:-ni.
run.PAST-3SG run.PAST-3SG
It was running, running.
Ele atana-mi bude:-nie ogbö.
soon be.out.of.breath-INF die.PAST-3SG elk
Soon the Elk collpsed exhausted and died.
6. Song (sung by Nadežda Pavlovna Kukčenko)
\begin{tabular}{llll} 
Na:-wa & kaja-m(i) & kai- \(\eta k u-z i\) & kaja-m(i) \\
skin-ACC & brake-INF & brake-N-INST & brake-INF
\end{tabular}
jexe-ze-m(i).
sing-SUBJ-1SG
I will sing about how we brake leather.
Ge: gune:y kai-yku-zie gune ña:-wa kai-za-mie
Well EV brake-N-INST EV skin-ACC brake-SUBJ-1SG
Well, I will brake skin with the brake for skins
\begin{tabular}{llll} 
sita-na-mi & upta-na-ti & wo-logo-mi & gune: \(\eta\), \\
child-PL-REF & shoe-DEST-3PL & make-PURP-SS & EV
\end{tabular}
to make shoes for my children,
\begin{tabular}{llll} 
ami-tie & unta-na-ni & wo-logo-mi & kai-za-mie. \\
father-3PL & shoe-DEST-3SG & make-PURP-SS & brake-SUBJ-1SG
\end{tabular} to make shoes for their father I will brake skin.
\begin{tabular}{lll} 
Käya-da & na:-wa-ni & nakta-da \\
deer-FOC & skin-ACC-3SG & na:-wa-ni \\
kai-za-mie & bune:-FOC & skin-ACC-3SG \\
brake-SUBJ-1SG & EV & \\
I will brake the deerskin and the boar skin
\end{tabular}
\begin{tabular}{llll} 
käna & na:-zi-ni & tene xeigi-ne-tien & wo-logo-mi \\
deer skin-INST-3SG & CONT trousers-DEST-3PL & make-PURP-SS \\
gune: \(\eta\). & & \\
EV & &
\end{tabular}
to make trousers for them of deer skin.
\begin{tabular}{lllll} 
Eili-ze-mie & \(\tilde{a} a-\)-wa & gune & kai-za-mi & gune \\
gown-SUBJ-1SG & skin-ACC & EV & brake-SUBJ-1SG & EV
\end{tabular}

\section*{jewe-jewe.}

INTER-INTER
I will dress the skin and brake it.

\section*{7. Ulikte 'Shaman lard' (told by Nadežda Pavlovna Kukと̌enko)}
Sama ulikte ulikte-si:-ni.
shaman lard lard-V-3SG

The shaman prepares the shaman lard.
\begin{tabular}{lllll} 
Nakta imo:-wo-ni & xuaji-e-k, & kuliga & duo-ni \\
boar fat-ACC-3SG & cut-PAST-EXPR & snake & shape-3SG \\
dili-we-ni & kuliga duo-n(i) & bede & wo:- . \\
head-ACC-3SG & snake shape-3SG & like & make.PAST-EXPR
\end{tabular}

He cuts the boar fat in the form of a snake, makes a head.
\begin{tabular}{clll} 
Uti & ani-we & joxo-wo & toxolo:- , \\
that & uli-we. \\
IND-ACC & pot-ACC & put.on.fire.PAST-EXPR water-ACC
\end{tabular}

He puts a pot on the fire and water.
\begin{tabular}{llrll} 
Joxo & do-lo-ni & nede-iti & ulikte-we & tene \\
pot inside-LOC-3SG \(\quad\) put-3PL & lard-ACC & CONT \\
ulikte-ne-ti & olokto-lo:-ni. & & \\
lard-DEST-3PL cook-PC-3SG & & \\
They put shaman lard in a pot for cooking. & &
\end{tabular}
\begin{tabular}{lllll} 
[Ulikte,] & uti & joxo & wei-le-ni & mo:-wo \\
lard & that & pot & on-LOC-3SG & stick-ACC \\
xeke:- & & ulikte & agbu-le:-m(i). & \\
tie.PAST-EXPR & lard & take-PC-SS &
\end{tabular}

He ties a little stick above the pot in order to take out the lard.
\begin{tabular}{|c|c|c|c|}
\hline Ulikte a:da-lisi-ni, & \(a: d a . .\). & \(b i-s i-n i\) & šaman \\
\hline lard get.ready-CC-3SG & ready & be-PC-3SG & shaman \\
\hline em'e kä:-tigi-ni & joxo-ti(gi), & nala-zi & agbu-ini \\
\hline come.PERF side-LAT-3SG & pot-LAT & hand-INST & take-3SG \\
\hline ulikte-we. nala-zi agbu & & & \\
\hline lard-ACC hand-INST take- & AST-EXPR & & \\
\hline When the lard is ready, the sh hands. & an comes \(t\) & t, and tak & lard with \\
\hline
\end{tabular}

Uti mö:, ulikte mö:-lo-ni [zaw'a-si] ...
that neck lard neck-LOC-3SG take.PERF-PC.SS
mo:-lo xeke:-k, uta tu: sigbi: imo:-wo,
tree-LOC tie.PAST-EXPR that all squeeze.PRP lard-ACC
tu: sigbi: uli-we-ni.
all squeeze.PRP water-ACC-3SG

He takes the lard off the fire with his hands. He holds by its neck, ties (the lard) to the stick, and squeezes it all, squeezes the water.

Tu: sigbi-ge-si zala-zi zaw'a-si
all squeeze-PERF-PF.SS hand-INST take.PERF-PC.SS
gusi.
play.PRP
Having squeezed it all, then he takes it with his hands, and plays.
Šamani-le-ini.
shamanize-V-3SG
He shamanizes.
\begin{tabular}{llll} 
Lauleli: & lauli: & lauli: & lauli: ... \\
dance.PRP & dance.PRP & dance.PRP & dance.PRP
\end{tabular}

He dances, dances.
\begin{tabular}{llllll} 
Lauli: lauli: & gusi-m(i) & laulü-m(i) & laulü-m(i) & \\
dance.PRP dance.PRP & play-INF & dance-INF & dance-INF & \\
laulü-m(i) & ni: & teun-tigi-ni... & laulü-m(i) & gusi:-ni & uti \\
dance-INF man & all-LAT-3SG & dance-INF & play-3SG & that
\end{tabular}
ulikte-zi.
lard-INST
He dances and plays dancing for all the people dancing with the lard.


So he finishes playing and cooks it again till it is ready.
Gele-i ni: tu: te:g'e-si
ask-PRP man all sit.PERF-PC.SS
gele-ini: tu: te: g'e-si
ask-PRP man all sit.PERF-PC.SS
zueze ned'e-si, table put.PERF-PC.SS
solim(i) olokt'o,
solimi.
dried.fish

All the audience sits down and sets up the table, they sit down, and cook a meal out of the dried fish.
\begin{tabular}{llllll}
\(\tilde{N} a\) & ani & uli-zi & 亿ètol & dawa & og'ou, \\
again & IND & water-INST & this & Siberian.salmon & dry \\
dawa & & olokt'o-si & & solümi & wo-iti. \\
Siberian.salmon & cook.PERF-PC.SS & dried.fish & make-3PL \\
They cook & \{that & salmon again with water, and make a meal out of it.
\end{tabular}

Ge, ute solimi-zi diga-iti uti ulikte-we well that dried.fish-INST eat-3PL that lard-ACC imo:-wo tu: tu: dig'a-si. fat-ACC all all eat.PERF-PC.SS
They eat lard and fat with this dried fish. They eat everything.
8. Oloxi wayba 'Squirrel and Turtle' (told by Nadežda Pavlovna Kukčenko)

Oloxi wayba zuye anda-mule bagdi-e-tie.
squirrel turtle both friend-N live-PAST-3PL
Squirrel and Turtle lived as friends.
Bagdie, oloxi gune: "Ge, jen(e)-ze-f(i) minti,
live.PRP squirrel say.PP well go-SUBJ-1PL.IN we
ani-we seutigi-we digan-a-za-fi."
IND-ACC cone-ACC eat-0-SUBJ-1PL.IN
They lived, Squirrel said: "Well, let us go to eat cedar cones."
Wayba gune:-ni "Ge, jene-ze-ff(i).
turtle say.PAST-3SG well go-SUBJ-1PL.IN
Turtle said: "Well, let us go.
Bi ono tukti-ze?"
me how climb-SUBJ
(But) how shall I climb up?"
Oloxi e-ini-de mute, "Bi tukti-ze-m(i).
squirrel NEG-3SG-FOC can me climb-SUBJ-1SG
(Since) it cannot (climb), Squirrel (said:) "I'll climb.
Sin-du ata-mi tugbu seutige-we?"
you-DAT NEG.SUBJ-1SG drop cone-ACC
Won't I drop cones (down) to you?"
jene:-tie, seutige mo:-lo i:ne:-tie.
go.PAST-3PL cone tree-LOC come.PAST-3PL
They went, came up to a cedar tree.
\begin{tabular}{lllll} 
Oloxi & \begin{tabular}{l} 
tuktie,
\end{tabular} & \begin{tabular}{l} 
oloxi
\end{tabular} & \begin{tabular}{l} 
tuktie, \\
climb.PRP
\end{tabular} & \begin{tabular}{l} 
wayba-yi-ni \\
squirrel
\end{tabular} \\
climb.PRPP & squirrel
\end{tabular}
xegienu alasie.
below wait.PRP

Squirrel is climbing, climbing, Turtle is waiting below.
Oloxi-ni-ni seutige-we diga-li-e-nie.
squirrel-AL-3SG cone-ACC eat-INC-PAST-3SG
Squirrel began to eat cones.
\(\begin{array}{llll}\text { Käkčike } & \text { nix'e, käkčike } & \text { nix'e, } & \text { käkčike } .\end{array}\)
Crack-crack, it goes, crack.
"Si j'eu nixe-i uta-du?"
you what do-2SG that-DAT
"What are you doing there?"

Uta-wa ikteme-si-mi, afikäkči afikäkči."
that-ACC gnaw-IM-1SG INTER INTER

I am gnawing them, crack-crack."

Ge, ute ikteme-si:-we-ni ut(i) alasi.,
well that gnaw-IM.PRP-ACC-3SG that wait.PRP
wanba alasi: ono-ko nixe-m(i)-de?
turtle wait.PRP how-IND do-INF-FOC
Well, Turtle is waiting for (Squirrel) gnawing nuts, what can it do waiting?
Oloxi tugbu-o:-ni seutige-ni mende-de.
squirrel drop-PAST-3SG nut-3SG whole-FOC
Squirrel dropped a whole pine cone.
\begin{tabular}{llllll} 
Ani & tugbu-si:-ni, & tugbu & jaza-ta, & uti & nixe:-ni. \\
IND & drop-IM-3SG & drop & of.course-FOC that & do.PAST-3SG
\end{tabular} It dropped a lot, dropped of course, so it was.
\begin{tabular}{llll} 
Tugbu-sii-ni, uti & wanba-ni-ni zawa-mi & niyme:-ni \\
drop-IM-3SG & that \\
turtle-AL-3SG take-INF & swallow.PAST-3SG \\
seutige-we & mende-de, \(\quad\) nimme:-ni & mende-de. \\
cone-ACC whole-FOC & swallow.PAST-3SG & whole-FOC \\
It dropped (a nut), Turtle picked it up and swallowed the whole cone.
\end{tabular}

Eu-gi-e-ni,
go.down-REP-PAST-3SG
nene-te bi seutige-mi:?"
go-FOC me cone-AL.SG
Squirrel came down and said: "Where has my cone gone?"
oloxi gune:-ni squirrel say.PAST-3SG
"Bi jinme:-i
me swallow.PP-1SG
"J'e-uxi
what-LAT
"I have swallowed it."
\begin{tabular}{llll} 
"J'e-we & yinme:- \(i\) & \(s i\) & uta-wa? \\
what-ACC & swallow.PAST-2SG & you & that-ACC
\end{tabular}
"Why have you swallowed it?
Bi sin-e-we xemgi-ze-m(i)."
me you-0-ACC trample-SUBJ-1SG
I shall trample on you."
Xengisi-li-e-ni aka-la, xengisi-mie
trample-INC-PAST-3SG back-LAT trample-INF
jakta-gi: jaza-ta, seutige-ni-we-ni
belch-REP.PRP of.course-FOC cone-AL-ACC-3SG
jakta-gi:.
belch-REP.PRP
(Squirrel) began to trample on (Turtle's) back, and when it was trampling,
(Turtle) belched up the cone.
Jakta ga:-gi-e-k,
belch take-REP-PAST-EXPR
tukti-gi-e-k,
climb-REP-PAST-EXPR
ña [weixi]
again up
diga-li-gi-e-ni.
eat-INC-REP-PAST-3SG I
(Squirrel) picked it up and climbed up again and began to eat cones again.

\section*{Afikäkči afikäkči ikteme-si:-ni. \\ NTER INTER gnaw-IM-3SG}

Crack-crack, Squirrel is gnawing the nuts.
\begin{tabular}{llll} 
"Ge, ele, anči seutige, & yene-ze-fi-ge, \\
well enough no nut & go-SUBJ-1PL.IN-HORT
\end{tabular}
ge jene-ze-fi-ge.
well go-SUBJ-1PL.IN-HORT
"All right, enough there are no nuts left, let's go."
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Uti
that} &  & tagda-i & jaza-ta, & \multirow[t]{2}{*}{diga-mu:i-ni,} \\
\hline & turtle-AL-3SG & get.angry-PRP & of.course-FOC & \\
\hline \multicolumn{2}{|l|}{xengi-si-e-ni,} & jaktagi & \(e-n i\). & \\
\hline \multicolumn{2}{|l|}{trample-IM-PAST-3SG} & belch-P & AST-3SG & \\
\hline \multicolumn{5}{|l|}{Turtle was angry, of course, (when it) was going to eat, (Squirrel) trampled on it, it belched.} \\
\hline
\end{tabular}
\begin{tabular}{llll} 
"Bi-de & timana & gele-ze-mi & sin-e-we. \\
me-FOC & tomorrow & ask-SUBJ-1SG & you-0-ACC
\end{tabular}
"Now I will invite you tomorrow.
\begin{tabular}{lllll} 
Si-de & timana & min-tigi & eme-i, & zima-zana-i. \\
you-FOC & tomorrow & me-LAT & come-2SG & visit-FUT-2SG
\end{tabular}

Now you should come tomorrow and visit me.
```

\etaene-ze-fi-ge."
go-SUBJ-1PL.IN-HORT

```
Let us go."
\begin{tabular}{lll} 
yene:-ti, & men-e-men-e & zugdi-tigi: \\
go.PAST-3PL & REF-0-REF-0 & house-LAT.REF
\end{tabular}
jene:-ni.
go.PAST-3SG
They went, each of them went to its own house.
\begin{tabular}{ll} 
"Timana min-tigi & zima-ta-i-ze, \\
tomorrow me-LAT & visit-PERM-2SG-HORT
\end{tabular}\(\quad\)\begin{tabular}{l} 
oloxi." \\
squirrel
\end{tabular}
\begin{tabular}{lllll} 
Wayba zugdi: & neni-e-k, & muisi-ni & "Bi \\
turtle house.LAT & go-PAST-EXPR & think-3SG & me \\
uti oloxi-we & eineni & zawa-zana-i, & bi & uta-wa \\
that squirrel-ACC & today & take-FUT-1SG & me & that-ACC \\
kesu-si-zene-i & & ñanga-da. & & \\
torture-IM-FUT-1SG & little-FOC & &
\end{tabular}

Turtle came home and thought: "Today I will take (revenge on) Squirrel, I will torture it a little."
\begin{tabular}{lllll} 
yeni-e-k & uli-tigi, & uli-tigi \\
go-PAST-EXPR & river-LAT & river-LAT & og'ou \begin{tabular}{l} 
t'a \\
dry
\end{tabular} & fallen.tree
\end{tabular}
bi--li.
be-3SG
It went to the river, there was a dry fallen tree (leading) to the river.
\begin{tabular}{lllll} 
Ani tono:-wo \(\quad\) xeke-si-e-k & ani-lege-mi & uti ... \\
IND loop-ACC tie-IM-PAST-EXP & IND-PURP-SS & that \\
oloxi-we \(\quad\) zawa-la:-m(i)... & & \\
squirrel-ACC take-PURP-SS & & \\
(Turtle) tied loops to catch that Squirrel. & &
\end{tabular}
\begin{tabular}{lllll} 
Xeku-zi & tu: & tonofu & tono: & lo-si-e-n(i), \\
rope-INST & all & loop & loop & hang-IM-PAST-3SF \\
nesi-e-ni & & uti & ani-le & t'a-la \\
put-PAST-3SG & that & IND-LOC & fallen.tree-LOC \\
uli-tigi, & t'a & & bie & \(e\) e-uze-le, \\
river-LAT & fallen.tree & be.PRES.HAB & this-N-LOC \\
xeke: uti & tonofu-ziga & ayi-we & xeku \(\quad\) mei-we-ni. \\
tie.PP that & loop-DIM & IND-ACC & rope strong-ACC-3SG
\end{tabular} It made the loops on the rope, put it on the fallen tree (leading) to the river, there was a fallen tree there, tied the small loops on a strong rope.
\begin{tabular}{llll} 
Ge timana & eme:-nie & oloxi em'e, \\
well & tomorrow & come.PAST-3SG & squirrel come.PERF
\end{tabular}
em'e, em'e, ge em'e.
come.PERF come.PERF well come.PERF

Well, next day Squirrel came, it came.
\begin{tabular}{llll} 
"Ei, & bi ono deu-ze-m(i) & si & e:-tigi:-ne?" \\
hey & me how cross-SUBJ-1SG & you & side-LAT.2SG-CONT
\end{tabular}
"Hey, how should I cross the river to your bank?"
\begin{tabular}{ll} 
"Uti \begin{tabular}{l} 
t'a-li \\
that fallen.tree-PROL \\
"Go
\end{tabular} & \begin{tabular}{l}
\(t\) 'a-la-i." \\
tree-V-IMP.2SG
\end{tabular}
\end{tabular}
"J'eu bi:-ni uti montom-ziga-i uti t'a xo:n-dile-ni?" what be-3SG that circle-PL-FOC that tree top-LOC-3SG "Why are circles there on the fallen tree?"
"Aja, uti bei ute bede nesi-e-m(i)."
good that in.vain that like put-PAST-1SG
"That's all right, I have put them for no particular reason."
E, (u)te t'a wei-le-ni t'a-la-li-e-ni
INTER that tree on-LOC-3SG tree-V-INC-PAST-3SG oloxi.
squirrel
Squirrel began to cross the river along the fallen tree.
\begin{tabular}{lllll} 
T'a-la-m(i) & xend'e & jaza-ta & uti, & ani \\
tree-LOC-INF & step.PERF & of.course-FOC & that & IND \\
tonofu-le-ni & xeyd'e & jaza-ta & & \\
loop-LOC-3SG & step.PERF & of.course-FOC & & \\
tipmele:-ni & uli-tigi. & & & \\
fell.PAST-3SG & river-LAT & & &
\end{tabular}

Crossing it (Squirrel) of course stepped on them, it stepped on the loop and fell into the river.
\begin{tabular}{|c|c|c|c|c|}
\hline T'a-ni get.tied.PAST-3SG & \begin{tabular}{l}
bugdi-le-ni, \\
foot-LOC-3SG
\end{tabular} & ge, well & \(u t i\) that & \begin{tabular}{l}
patanai \\
flounder
\end{tabular} \\
\hline patanai, uli-le & xayka-kca-i. & & & \\
\hline flounder river-LOC & choke-INT-PRP & & & \\
\hline It got tied down with & soot, floundered & & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Uti} & \(a \eta i\) & wayba-mi-ni & ise-si: & aja-zi-de \\
\hline & IND & turtle-AL-3SG & see-IM.PRP & good-INST-FOC \\
\hline \multicolumn{5}{|l|}{xayka-kca-i-we-ni, oloxi-ni:} \\
\hline \multicolumn{5}{|l|}{choke-INT-PRP-ACC-3SG squ} \\
\hline \multicolumn{5}{|l|}{xayka-kca-i-we-ni.} \\
\hline \multicolumn{5}{|l|}{choke-INT-PRP-ACC-3SG} \\
\hline \multicolumn{5}{|l|}{Turtle took a good look at the choking Squirre} \\
\hline
\end{tabular}
\begin{tabular}{llcll} 
"Anda, & min-e-we & xaulie & weisi-gie, & ele \\
friend & me-0-ACC & please & rescue-REP.IMP.2SG & soon \\
bude-m(i) & bi, bi & xanka-mi." & \\
die-1SG me me choke-1SG & & \\
"Friend, please, rescue me, I am dying, I am choking." &
\end{tabular}
\begin{tabular}{llll} 
"Aja, nanga-da & nanga & ani-nde-ze-m(i) & sin-e-we \\
good little-FOC & little & IND-SEM-SUBJ-1SG & you-0-ACC
\end{tabular} [kesu-li-nde-ze-m(i)]. torture-INC-SEM-SUBJ-1SG
"All right, let me torture you a little.
\begin{tabular}{llllll} 
Uti & uli & do-lo-ni & nanga & bi-nde & si. \\
that & river & inside-LOC-3SG & little & be-SEM.IMP.2SG & you
\end{tabular}

Stay in the water for a while.
Si min-e-we ono xenisi-ge-i-de."
you me-0-ACC how trample-PERF-2SG-FOC
How you trampled on me!"
\begin{tabular}{|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{"Aja,} & \multicolumn{2}{|l|}{sin-e-we} & ute \\
\hline good more & \multicolumn{2}{|l|}{NEG-FUT-1SG} & you- & ACC & that \\
\hline e-zene-i & nixe, & ge & aja & & \\
\hline NEG-FUT-1SG & do & well & good & be-S & BJ-1SG \\
\hline ele bude-le, & ele & xayko & \(m(i)\). " & & \\
\hline soon die-FOC & soon & chok & PAST & & \\
\hline
\end{tabular}
"All right, I will not treat you like that \{again\}, well, I will be good, I am dying, I am choking (to death)."
\begin{tabular}{lllll}
\begin{tabular}{lll} 
Wanba & ise-si., & ise-si.,
\end{tabular} & \begin{tabular}{l} 
[oloxi]
\end{tabular} & ele \\
turtle & see-IM.PRP & see-MM.PRP & squirrel & soon \\
xanka-li-e-ni. & & & \\
choke-INC-PAST-3SG & & & \\
Turtle sees: & Squirrel is going to choke. & &
\end{tabular}

Ani-ni oloxi-ni-ni, jene-mie tanda-gi-e,
IND-3SG squirrel-AL-3SG go-INF let.out-REP-PP
tanda-gi-e, asta-gi-e-ni. ...
let.out-REP-PP release-REP-PAST-3SG
Squirrel, (Turtle) went, took it out, took it out, and released it.
Tonofu asta-gi-e-ni.
loop release-REP-PAST-3SG
It loosened the loop.

Tu: ñukto:-ni, og'ou-gi-li.
all get.wet.PAST-3SG dry-REP-3SG
(Squirrel) was wet through, then dried itself.
\begin{tabular}{llll} 
"Ge, wayba, a-wa & caixi aja-zi & bi-zene-fi, \\
well turtle that-ACC & further \\
good-INST & be-FUT-1PL.IN \\
e-zene-ffi) & ute & nixe, aja-zi & bagdi-zene-fi. \\
NEG-FUT-1PL.IN that do good-INST live-FUT-1PL.IN \\
"Well, Turtle, since this day we will be good (to each other), we will not act \\
" like this (again), we will live well.
\end{tabular}
\begin{tabular}{llllll} 
Si & min-ti(gi) & zima-i, & \(b i\) & \(\sin -t i(g i)\) & zima-i. \\
you & me-LAT & visit-2SG & me & you-LAT & visit-1SG
\end{tabular}

Come and visit me, and I will come to visit you.
\begin{tabular}{llllll} 
Si & min-e-we & ketige & wa:-i, & bi & tene \\
you & me-0-ACC & nearly & kill.PAST-2SG & me & CONT
\end{tabular}
sin-e-we xenisi-mi ketige wa:-mi.
you-0-ACC trample-INF nearly kill.PAST-1SG
You nearly killed me, and I nearly killed you with my trampling.
A-wa caixi aja-zi xe:ti-zi bagdi-zene-fi,"
that-ACC further good-INST peaceful-INST live-FUT-IPL.IN
guj-ki-ni.
say-PAST-3SG
Let us live in peace and friendship from now on," it said.
Ute bede bagdi-li-e-ti.
that like live-INC-PAST-3PL
They began to live this way.
9. How they processed skin (told by Anna Sonljanovna Kančuga)

\section*{Unta-du.}
boot-DAT
For making boots.

Nakta ña:-wa-ni
boar skin-ACC-3SG
alukta-wa-ni,
suede-ACC-3SG
u:-ge-si scrape-PERF-PC.SS
ga:-gi-e-k, take-REP-PAST-EXPR
ñoxo alukta-wa-ni first suede-ACC-3SG pi.j-e:-k,
sprinkle-PAST-EXPR
\(u:-l i-u-(i)\) scrape-INC-PAS-PRP
tu:
all
imo:-zi
fat-INST
pi:, uli:-zi degbi-si:, ut'asi kaj-u-i. sprinkle.PRP water-INST wet-IM.PRP then brake-PAS-PRP Having taken a boar skin one begins to scrape the inner side of it, first having scraped the inner side of the skin they sprinkle it with fat, wet it with water, then it should be braked.
\begin{tabular}{lllll} 
Kai: & kai: & kai: & kai: & kai:. \\
brake.PRP & brake.PRP & brake.PRP & brake.PRP & brake.PRP
\end{tabular} They brake and brake it.
\begin{tabular}{llll} 
Lä & kai: & xekul(i) & \begin{tabular}{l} 
dexi-de. \\
very
\end{tabular} \\
till-FOC
\end{tabular}

They brake it very much till it gets hot.
Ut'asi xu:gi-e-ti
then turn-PAST-3PL
Then they turn it.
\begin{tabular}{|c|c|c|c|c|}
\hline kai: & \{uže & mjagkaja) & ani-nie-nie & igbe-nie-nie \\
\hline brake.PRP & already & soft & IND-3SG-3SG & soft-3SG-3SG \\
\hline eitene, now & \begin{tabular}{l}
igbene: \\
soften.P
\end{tabular} & \[
-3 S G
\] & & \\
\hline It is \{alread & dy) soft n & it has softe & & \\
\hline
\end{tabular}

Cosu-i ga:-gi-e-k,
scraper-REF take-REP-PAST-EXPR
cosu-le-gi-e-k, wagi-gi-e-k.
scraper-V-REP-PAST-EXPR dry-REP-PAST-EXPR
Having taken a scraper they scrape it and dry it.
\begin{tabular}{lllll} 
Og'oma-kta-n(i) & \(\tilde{n a} a\) & kai:, & \(\tilde{n} a:-\) wa & \(\tilde{n} a\) \\
dry-RES-3SG & again & brake.PRP & skin-ACC & again \\
kai & kai: & kai: & kai: & kai:. \\
brake.PRP & brake.PRP & brake.PRP & brake.PRP & brake.PRP \\
\multicolumn{2}{l}{ They brake the dried skin again, brake and brake it. } &
\end{tabular}
\begin{tabular}{llll} 
Igbene-ilie & igbene-ilie & igbene-ilie & na:; \\
soften-3SG & soften-3SG & soften-3SG & skin skin \\
igbene-isi-ni & läs \((i)\) & aja-zi & cosu-le-gi-e-k, \\
soften-PC-3SG & very & good-INST & scraper-V-REP-PAST-EXPR \\
gi:na-gi-e-k & & uyta & wo-logo-m(i). \\
cut-REP-PAST-EXPR & boot & make-PURP-SS
\end{tabular}

When the skin has softened, they scrape it properly and cut it out in order to make boots.
\begin{tabular}{llll} 
Unta & wo:-i, & upta & wo-logo-m(i) \\
boot & make-PRP & boot & make-PURP-SS
\end{tabular}
gi:na-gi-e-k. cut-REP-PAST-EXPR
They make boots, cut out (the skin) in order to make boots.
\begin{tabular}{lll} 
Ut'asi & upta & wo:-i. \\
then & boot & make-PRP
\end{tabular}

Then they make boots.
Unta w'o-si metu-ge-s(i) tene
boot make.PERF-PC.SS finish-PERF-PC.SS CONT
saymi-u-i, saymi-si-u-i.
smoke-PAS-PRP smoke-IM-PAS-PRP
Having made boots, having finished one should smoke them.
Xo-ñieññie ede-de-ili, sanmi-si-u-i.
yellow-ADJ become-V-3SG smoke-IM-PAS-PRP
One must smoke till they get yellow.
\begin{tabular}{lll} 
Saymi-si-m(i) & wadi-e-isi & \(i: y t i-n(i)\) \\
smoke-IM-INF & wu:-inish-PAST-PC & heel-3SG
\end{tabular}
kiugi.
smooth.PRP
After they finish smoking, they make the heel smooth.
\begin{tabular}{lllll} 
K'olo-du & wo:-ili & \(x a i\) & ute & bede. \\
mitten-DAT & make-3SG & too & that & like
\end{tabular}

They make mittens like this too.
\begin{tabular}{lcll} 
Käya & \(\tilde{n a}:-\) wa-ni & u:-i, & \\
deer & (mezdra-wa-ni) \\
anin-ACC-3SG & scrape-PRP & suede-ACC-3SG \\
ani & alukta-wa-ni & u:-o:. \\
IND & suede-ACC-3SG & scrape-PP
\end{tabular}

They scrape a deer skin, they scrape suede.
Ut'asi düi-zi ula-si., ula-si-mie cosu-le-i.
then brain-INST wet-IM.PRP wet-IM-INF scaper-V-PRP

Then they wet it with brain and scrape.
\begin{tabular}{llll} 
Ula-si-mi & cosu-le-i, & cosu-le-i, & cosu-le-i. \\
wet-IM-INF & scraper-V-PRP & scraper-V-PRP & scraper-V-PRP
\end{tabular}
\begin{tabular}{llll} 
Lä & ula-si:-ni, & limbi-limbi & ed'e. \\
very & wet-IM-3SG & soaked-soaked & become.PERF
\end{tabular}

They wet very much (till the skin) gets soaked.
\begin{tabular}{lllllll} 
Go: & go: & ani & nuktui & ñuktui & limbi-limbi-de \\
long & long IND & wet & wet & soaked-soaked-FOC \\
tu: & cosu-le-i, & & tu: & cosu-le:; & cosu-le:. \\
all & scraper-V-PRP & & all & scraper-V.PP & scraper-V.PP
\end{tabular}

They scrape, scrape for a long time till it gets wet through, gets soaked, they scrape and scrape.


Having dried water they scrape again, dry again, dry again, scrape, scrape, scraping they dry it.
\begin{tabular}{lllll} 
Adi-me & (minut) & .. & ani tuna (minute) \\
how.many-ACC & minute & IND five minute \\
wagi-sie, & \(\tilde{n} a\) & ga:-gi-e, & \(\tilde{n} a \quad\) cosu-le-i, \\
dry-IM.PRP & again & take-REP-PRP & again scraper-V-PRP \\
cosu-le-i, & neptem-de & cosu-le-i. \\
scraper-V-PRP & flat-FOC & scraper-V-PRP \\
They dry (the skin) & for five (minutes\}, then they take (the skin) again (and) \\
scrape, scrape, till it gets flat.
\end{tabular}

Ut'asi na wagi-gi., xegiele soktu-gi.:
then again dry-REP.PRP down spread-REP.PRP
After that they dry it again, spread it on the floor.
\(\begin{array}{lllll}\text { Wagi-si., } & \text { wagi-si:, } & \text { wagi-si., } & \tilde{n} a & \text { cosu-le-i. ... } \\ \text { dry-IM.PRP } & \text { dry-PRP } & \text { dry-PRP } & \text { again } & \text { scraper-V-PRP }\end{array}\)
They dry it, dry, dry, and scrape again.
\begin{tabular}{llll} 
(Sovsem) & og'ou-de tu: & \begin{tabular}{l} 
cosu-le-i \\
completely
\end{tabular} & dry-FOC all \\
scraper-V-PRP & cosu-le-i. \\
scraper-V-PRP
\end{tabular}

They scrape it \{when it is completely\} dry.
(Sovsem) og'ou-de cosu-le:-k, wagi-si-e-k, completely dry-FOC scraper-V.PAST-EXPR dry-IM-PAST-EXPR kede-z(i) lä kede-i kede-zi. dressing.tool-INST very dress-PRP dressing.tool-INST
They scrape it \{when it is completely\} dry; having dried it they dress it heavily with a dressing tool.
\begin{tabular}{lcl} 
Kede-zi & kede-i & \begin{tabular}{l} 
kede- \(i\).
\end{tabular} \\
dressing.tool-INST & \begin{tabular}{l} 
dress-PRP \\
dress-PRP
\end{tabular} \\
They dress it, dress with a dressing tool.
\end{tabular}
Ut'asi gdeli jala k'olo wu:-i ja-za ebede
then CONT hand mitten make.PAS-PRP of.course so
ele sexi bede ede:-de ei-de.
soon cloth like become.PP-FOC this-FOC

After that they make the mittens; (the skin) now becomes (soft) like cloth.


They smoke them over the smoke, (so that they get) yellow.
10. Xanaŋku teluŋu 'Story about the shaman's guessing' (told by Evdokija Ivanovna Kančuga)
[Omo a:nta] zima:-n(i) sikie. one woman visit.PAST-3SG evening
One woman went on a visit in the evening.
Zima: eme-gie ...
visit.PAST come-REP.PRP
After visiting she came home.
\begin{tabular}{llll} 
Timadule & te:-gi-le-m(i) & j'eu-ke le & galakta-la:-m(i), \\
morning get.up-REP-SEM-INF & what-IND & \begin{tabular}{l} 
seek-PURP-SS.REP
\end{tabular} \\
nientile-m(i) uti & nekce-i & ani-wa & konz'o-ziga-i
\end{tabular}
\begin{tabular}{lllllll} 
Niente-lisi-n(i) & j'eu-de & anči, & waiga-n(i)-de & anči, & \\
open-CC-3SG & what-IND & no & earring-3SG-FOC & no & \\
belepti-n(i)-de & anči, & \(\tilde{n} \tilde{0}:-\)-mo & au-n(i)-de & & anči, \\
bracelet-3SG-FOC & no & sable-ADJ & cap-3SG-FOC & no \\
kenku-kenku & esi-gi-e-ni & & uti & ani-ni & \\
empty-empty & become-REP-PAST-3SG & that & IND-3SG &
\end{tabular} nekce-ŋku-ni. ...
chest-N-3SG
When she opened it there was nothing, no earrings, no bracelets, no sable cap, the chest had become empty.

Ge, uta-wa "Xayasi-je min-e-we xaulie-de. well that-ACC guess-IMP.2SG me-0-ACC please-FOC Well, then (she came to the shaman and said) "Guess (who has stolen it) please.
\begin{tabular}{lll} 
<B'a-gi-si-ni> & b'a-gi & edeisini \\
find-REP-PC-3SG find-REP.PRP if & \begin{tabular}{l} 
sin-e-we \\
agda-gi-te-m(i)-ze."
\end{tabular} & you-0-ACC
\end{tabular}
\begin{tabular}{lcll} 
Sama \begin{tabular}{lll} 
dian-a-i & "Bi & mute-ze-m(i)
\end{tabular} & uta-wa?" \\
shaman say- 0 -PRP & me & can-SUBJ-1SG & that-ACC
\end{tabular}
"Aja mute-zene-i."
good can-FUT-2SG
"Please, you will be able."
"Ge, ilekpe-si-ze-f(i)."
well try-IM-SUBJ-1PL.IN
"Well, let us try."
Ilekpe-sie uti xana-yku-zi.
try-IM.PRP that guess-N-INST
He tried with the guessing tool.
Ge, xana-ŋku zolo-yi: ga:-gie, ani toli well guess-N stone-AL.REF take-PRP IND copper.dise teti-gie.
dress-REP.PRP
Well, he took the guessing tool, the stone, he put on the copper disc.
"Ge, xana-ze-f \((i)\).
well guess-SUBJ-1PL.IN
"Well, let us guess.
\begin{tabular}{lllllll} 
Ge, & uti & dian-a-i, & ge, & omo & ni: & bie, \\
well & that & say-0-3SG & well & one man & be.PRES.HAB \\
uti & nixe & bi-lisi-nie & ono & nixe-zene-i? & \\
that do & be-CC-3SG & how & do-FUT-1SG &
\end{tabular}

Well, he said, there is one man, what shall I do if it was he (who has stolen it)?
Ono-do e-zene-i ute b'a-gie edeisini."
how-FOC NEG-FUT-1SG that find-REP.PRP if
I'll do nothing (to him) if (the things) are found."


Well, she went and said to this man, she said: "Well, did you come to steal my things last night?
\begin{tabular}{lllllll} 
Si & aja-zi & ceze & dian-a-isi-ni & si & ceze \\
you & good-INST & truth & say-0-PC-3SG & you & truth \\
dian-a & ceze & dian-a & ceze & dian-a- \(i\) & edeisini \\
say- 0 & truth & say-0 & truth & say-0-2SG & if
\end{tabular}
\(z a ̈: \quad b u-t e-m(i)-z e \quad b i, \quad t u: \quad b u\)-ge-si
money give-PERM-1SG-HORT me all give-PERF-PC.SS
j'e-we zawa-m(i) j'e-we-de, min-(du) what-ACC take-INF what-ACC-IND me-DAT
tu: bu-gi-e.
all give-REP-IMP.2SG
If you tell the truth I'll give you money, if you return everything you took, give me back everything.
\(\begin{array}{lll}\text { J'eu } & \text { ni:-d }(e) & \text { e-zene- } i \quad \text { dian-a." } \\ \text { what } \\ \text { man-FOC } & \text { NEG-FUT-1SG say-0 that-ACC }\end{array}\)
I'll tell nobody."
Uta-wa ni: dian-a-i man say-0-PRP
"Bi-de me-FOC
zawa."
take

The man said: "I did not take it."
"Si zawa-i.
you take-2SG
"You have taken it.
\begin{tabular}{llll}
Bi & t'osi-e-m(i). & (Ona & vret). \\
me & dream-PAST-1SG & she & lies
\end{tabular} I dreamt it. \{She is lying.\}
\begin{tabular}{lll} 
T'osi-e-m(i) & [govorit \}, & t'osi-e-m(i). \\
dream-PAST-1SG & says & dream-PAST-1SG \\
I dreamt it \(\{\) she said \}, I dreamt it. &
\end{tabular}

Ge, dian-a-i, aja-zi dian-a-i. well say-0-IMP.2SG good-INST say-0-IMP.2SG
Please, tell well.

Aja e-zi-de xagza ...
good NEG-IMP.2SG-FOC be.shy
Do not be shy.
Si e-lisi: bu-gi, sama-ti(g)i ani-zene-i
you NEG-CC.2SG give-REP shaman-LAT IND-FUT-1SG
xaya-ŋku-ti(g)i sama gele-zene-i. guess-N-LAT shaman ask-FUT-1SG
If you don't return it, I will ask the shaman to guess.
Sin-du ge: bi-ze e-si: bu-gi.
you-DAT bad be-SUBJ NEG-PC.2SG give-REP
You'll be ill unless you give it back.
Ge, dian-a-i uti, xaulie, dian-a-i, xaulie
well say-0-PRP that please say-0-PRP please
bu-gi-e
give-REP-IMP.2SG you me who-LAT-IND
ali dian-a-i."
when say-0-1SG
She said, please please, give it back, I'll tell nobody."
Ono nixe-ze-m(i)?
how do-SUBJ-1SG
What should she do?

Ceze zawa:-n(i).
truth take.PAST-3SG
He has indeed taken it.
Ge, ceze zawa:-n(i) "Bi e-si-m(i) zawa"
well truth take.PAST-3SG me NEG-PAST-1SG take
zawa-m(i) gune "E-si-mi zawa" gun-e-ini.
take-INF EV NEG-PAST-1SG take say-0-3SG
Having taken it he still keeps saying: "I did not take it."
Xai "E-si-m(i) zawa.
still NEG-PAST-1SG take
(He keeps saying:) "I did not take it.

E-si-m(i)
NEG-PAST-1SG
I did not take it.
\(B i\) e-si-m(i) nixe, e-si-m(i) zomi
me NEG-PAST-1SG do NEG-PAST-1SG steal
uta-wa.".
that-ACC
I did not do it, did not steal it."
\begin{tabular}{lllll}
\(\{\mathrm{Nu})\) & uti tene a:nta dian-a-i & " \((\mathrm{Nu}) \ldots\) & \(b i\), \\
INTER & that CONT woman say-0-PRP & INTER & me
\end{tabular}
bi ono nixe?
me how do
The woman said: "Well, what shall I do?
\begin{tabular}{lccccc} 
"Si & ge:" & \(e-z i\) & gun-e, & <e-zi> & min-tigi \\
you & bad & NEG-IMP.2SG & say-0 & NEG-IMP.2SG & me-LAT \\
\(e-z i\) & ge: & muisi. & & \\
NEG-IMP.2SG bad & think & & \\
Do not blame me.
\end{tabular}
\begin{tabular}{lll} 
Zawa-m(i) men-e & zawa:-i & e-ini-de \\
take-INF REF-0 \(\quad\) take.PAST-2SG, & NEG-3SG \\
bu-gi.: \\
give-REP.3SG & & \\
\multicolumn{2}{l}{ You have taken it and do not return it. } &
\end{tabular}
\begin{tabular}{lll} 
Sin-tigi & ge: & bi-zene-ni." \\
you-LAT bad & be-FUT-3SG \\
"You'll be ill." &
\end{tabular}

Ge, omo aya-ni-de omo ana e-si-ni well one year-3SG-FOC one year NEG-PAST-3SG bie uti nixe-ze-mie bolo bolo-gi:, be.PRES.HAB that do-SUBJ-INF autumn autumn-REP.PRP bude:-ni. die.PAST-3SG
Less than a year later so it was, he died when the autumn came.

\section*{11. Z'oto g'ai-de 'Otter and Crow' (told by Alexandr Egorovǐ Pionka)}
\begin{tabular}{llllllll} 
Z'oto & ani & bi-mie, & omo & z'oto & bi-si-ni, & z'oto & g'ai. \\
otter & IND & be-INF & one & otter & be-PAST-3SG & otter & crow
\end{tabular} There once lived an Otter and a Crow.
\begin{tabular}{lllll} 
Z'oto tu: & xuli: & xuli:, & diga-la-m(i) & \(t u:\) \\
otter all & wa:- - i. \\
go.PRP & go.PRP & eat-PURP-SS & all & kill-PRP
\end{tabular} Otter always goes (hunting), hunts all the time so that it could eat.
\begin{tabular}{llll} 
Zeupe-we:-s & zeupe & wa:-ini, & sugzä:-wa \\
greenling-ACC-DIS & greenling & kill-3SG & fish-ACC
\end{tabular}
galakta-ini diga-la:-m(i).
seek-3SG eat-PURP-SS

It kills greenlings (a variety of salmon), seeks for fish to eat.
Bi-mie z'oto ei neni-ni omo neni-ni
be-INF otter this day-3SG one day-3SG
muisi: "Anda, ani g'ai-ma anda-tigi
think.3SG friend IND crow-ADJ friend-LAT
nene-ze-m(i) bi."
go-SUBJ-1SG me
So they lived, one day Otter thinks: "Let me go to my friend Crow."
G'ai-ma anda-n(i)
crow-ADJ friend-3SG
g'ai-ma anda-ni
z'oto bi-xi-ni, e, otter be-PAST-3SG INTER
crow-ADJ friend-3SG come.PAST-3SG
Otter was Crow's friend, it came to its friend Crow.
"Ge, g'ai anda, i:-digi em'e-i?
well crow friend where-LAT come.PERF-2SG
"Hey, friend Crow, where are you coming from?
```

Alasi-e diga-la-f(i) olokto-zo-m(i) bi
wait-IMP.2SG eat-PURP-1PL.IN cook-SUBJ-1SG me

```
si diga-laga-i."
you eat-PURP-2SG

Wait, I'll cook for you to eat in order that you eat."
\begin{tabular}{llll} 
Kawa do-lo-ni & joxo- \(i\) & toxolo-gi-e & z'oto. \\
tent inside-LOC-3SG & pot-REF & put.on.fire-REP-PP & \begin{tabular}{l} 
otter
\end{tabular}
\end{tabular}

In the house the Otter put the pot on the fire.
Joxo-i toxolo:.
pot-REF put.on.fire.PP
It put the pot on the fire.
\begin{tabular}{lllll} 
Joxo-ni & xui., & xui-li-e-ni, & joxo & cul(i) \\
pot-3SG & boil.PRP & boil-INC-PAST-3SG & pot & through \\
xuin-ke & gunei & z'oto. & & \\
dive-PAST & EV & otter &
\end{tabular}

The pot is boiling, began to boil, Otter dived right down.
\begin{tabular}{lllllll} 
Joxo & culi & xuiy-ki-zi & go: & bi: & go: & go:-do \\
pot & through & dive-PP-INST.REF & long & be.PRP \\
ei & long & long-FOC
\end{tabular}
\begin{tabular}{cllll} 
Uta & tuge-zi & olokto:-ni, & g'ai & diga-ili. \\
that & quick-INST & cook.PAST-3SG & crow & eat-3SG
\end{tabular}

It cooked quickly, and Crow ate.
\begin{tabular}{lllll} 
G'ai & diga-m(i) & \begin{tabular}{l} 
metu-ili, \\
crow eat-INF
\end{tabular} & finish-3SG & bi-mie \\
dogbo-gi-u.
\end{tabular}\(\quad\)\begin{tabular}{l} 
g'ai
\end{tabular} \begin{tabular}{l} 
nene-ilie-ze \\
night-REP-PAS
\end{tabular}
\begin{tabular}{lllll} 
" \(G(e)\), & anda, & bi-de & ele & neni-m \((i)\) \\
hey & friend & me-FOC \(\quad\) enough & come-INF \\
agda:-mi & si & zeupe-we & \(j^{\prime}\) e-we \\
be.glad.PAST-1SG & you & greenling-ACC & what-ACC
\end{tabular}
diga-way-ki-me-i.
eat-CAUS-PP-ACC-2SG
"Hey, friend, I was walking (to you) too, I am glad that you fed me with greenling or anything else.
\begin{tabular}{lll} 
Si-de & \begin{tabular}{l} 
eme-i \\
you-too \\
come-IMP.2SG
\end{tabular} & \begin{tabular}{l} 
min-tigi. \\
me-LAT
\end{tabular}
\end{tabular}

Come to me too.
\begin{tabular}{lll} 
Timana gdali timana \\
tomorrow CONT \(\quad\) tomorrow & af:-la-n \((i)\)-da \\
eme-te-i-ze." \\
come-PERM-2SG-HORT
\end{tabular}

Come the day after tomorrow."
\begin{tabular}{llll}
\(E\), & z'oto & bi. & bi:. \\
INTER & otter & be.PRP & be.PRP
\end{tabular}

Otter lived, lived.
\begin{tabular}{lllcl} 
"Ei & bi & anda- \(i\) & dial-ka & "nuan-tigi-ni
\end{tabular} eme-i
egdi-we diga-wan-za" gum(u).
many-ACC eat-CAUS-SUBJ EV
"My friend Crow said I should come to her, I should go, she will feed me with many things," it said.
\begin{tabular}{lllll} 
G'ai-tigi & nene-ili, "A, & anda, eme:-i, \\
crow-LAT & go-3SG & INTER & friend come.PAST-2SG \\
j'ewe & gabak, & j'e-we & nixe-je, & gabak. \\
INTER INTER & what-ACC & make-2SG INTER \\
It came to Crow, "Friend, you came, croak, how are you, croak."
\end{tabular}

Eme-mie joxo-i toxolo-gi-e-n(i) g'ai xaisi. come-INF pot-REF put.on.fire-REP-PAST-3SG crow too When it came, Crow put the kettle on the fire, too.
\begin{tabular}{lll} 
Joxo-i toxolo-gi-zi: & xui-li-zi-ge, & z'oto \\
pot-REF put.on.fire-REP.PP-INST & boil-INC.PP-INST-FOC & otter \\
bagä:-za-la-Le:-i. & & \\
opposite-N-LOC & sit-PRP &
\end{tabular}

The kettle began to boil on the fire, the Otter sits opposite.
```

Joxo culi xuin-ku-nie
pot through dive-PAST-3SG
g'ai.
Crow dived into the kettle.

```
\begin{tabular}{llllll} 
Alasi., & \(e i\) & \(e m e-g i\), & alasi., & \(e i\) & \(e m e-g i\), \\
wait.PRP & NEG & come-REP & wait.PRP & NEG & come-REP \\
alasi., & \(e i\) & \(e m e-g i\). & & & \\
wait.PRP & NEG & come-REP \\
(Otter) waits, it is not coming, (Otter) & waits, it is not coming.
\end{tabular}
```

"J'eu \etaene-i?"
what go-PRP
"Why did she leave?"

```
\begin{tabular}{lllll} 
Ba:-la & ise-kte-ne, & \multicolumn{1}{l}{ ba:-la-da } & anči, \\
place-LOC & see-DIST-DRR & place-LOC-FOC & no \\
\(i=-l e-d e\) & anči, & joxo & düjxi-ni & olokto-i. \\
what-LOC-IND & no & pot & inside-3SG & cook-PRP
\end{tabular}

It went to look outdoors, nobody there, (Crow) is nowhere (to be found), it is being cooked in the pot.
\begin{tabular}{llllll} 
Joxo & do-lo-ni & & \multicolumn{1}{l}{ ise-si-gi-ni, } & ei & \\
pot & inside-LOC-3SG & \multicolumn{1}{l}{ see-IM-REP-3SG } & this & \\
saña & dugelilie & xui:-ni & gune & joxo \\
bird.excrement & turbid & boil-3SG & EV & pot
\end{tabular}
do-lo-ni.
inside-LOC-3SG
(Otter) looked into the pot (and sees): the water had become turbid with bird excrement boiling in the pot.


It could not go into the water.
```

Ele tete:-ni.
enough end-SG
This is the end.

```

\section*{12. Waŋba 'Turtle' (told by Andrej Dzandzuleevič Suanka)}
\begin{tabular}{llllll} 
Wayba & ejekte & uli-le & e-ini & bagdi, wayba \\
turtle & fast & water-LOC & NEG-3SG & live & turtle \\
bagdi-mi & to:go & uli-le. & & & \\
live-INF & quiet & water-LOC & & &
\end{tabular}

Turtles do not live in fast water, they live in quiet water.
\begin{tabular}{llll} 
To:go uli-le & bagdi-mi, & ni:-we & ise-i \\
quiet water-LOC & live-INF & man-ACC \(\quad\) see-PRP \\
susa:-n(i)-tene, & xuine-ini & uli & düxi-ni. \\
escape-3SG-CONT & dive-3SG & water & inside-3SG
\end{tabular}

They live in quiet water, and when they see a man they escape, they dive into the water.

Xuine-si-e-ti, e-zeךe b'a-gi.
dive-IM-PAST NEG-FUT find-REP
If they dive, they will not be found.
Wayba umakta-ni egdi.
turtle egg-3SG many
Turtle has a lot of eggs.
Umakta-ini egdi-we, egde-ŋki, egde-ŋki umakta-ini, egg-3SG many-ACC many-ADV many-ADV egg-3SG läsi egdi-me.
very many-ACC
It lays many eggs, lays a lot of them.
Za: tuja-ma-wa umakta-ini.
ten five-ACC-ACC egg-3SG
It lays fifteen eggs.
Uta oñokto-wo ule-isi [oñokto] umakta-ini.
that sand-ACC dig-PC? sand egg-3SG It digs the sand and lays there its eggs.
\begin{tabular}{llllll} 
Umakta-isi-:tene & umakta-m(i) & metu-ge, & uta-wa & teu \\
egg-PC-CONT & egg-INF & finish-PERF & that-ACC & all \\
deigi:-ni, & teu & deigie. & & & \\
cover-3SG & all & cover.PRP & & &
\end{tabular}

Uti su:-tigi men-e xekui edisini men-e bagdi:-ni.
that sun-LAT REF-0 warm when REF-0 live-3SG
They grow by themselves in the sun when it is warm.
\begin{tabular}{lll} 
Ani sita, wanba sita-ni & ic'a-i-de, \\
IND child & turtle child-3SG & small-FOC-FOC \\
ic'a-i-de, & ic'a-i-de. & \\
small-FOC & small-FOC-FOC & \\
Baby turtles are very very small.
\end{tabular}
\begin{tabular}{lllllll} 
Uta & beje-ti & men-e & nugie & \multicolumn{1}{l}{ su:-tigi } & & \\
that self-3PL & REF-0 come.out.PRP sun-LAT & & \\
solo-xi:, & uli-tigi & egbe-xi:, & ute & bede & sagdi \\
go.upstream-IM.PRP & water-LAT & swim-IM.PRP that & like & big
\end{tabular}

\section*{13. Making a fire (told by Susan Čufuevič Geonka)}
\begin{tabular}{llllll} 
Bu:-we & galakte-iti & bita-la, & aja & aja & bu:-we. \\
flint-ACC & seek-3SG & spit-LOC & good & good & flint-ACC
\end{tabular}

They seek a flint in the spit, a very good flint.
Sagdi bu:-we b'a ut'as(i)zolo-zi zolo-zi big flint-ACC find then stone-INST stone-INST kakta-sie, nekce-iti. split-IM.PRP keep-3PL When they find a big flint, they split it with the stones and keep it.
\begin{tabular}{lllll} 
Uti & zolo-zi & tene, uti & bu:-zi & [wo:kto] \\
that stone-INST & CONT that & flint-INST & grass & \\
wo:kto & bi: & sina-gdeli, & wo:kto gegbi, & siya-gdeli.... \\
grass & be.PRP & mouse-FOC & grass name.PRP & mouse-FOC
\end{tabular}

And with this stone, this flint (they kindle) grass called "mouse grass".
\begin{tabular}{|c|c|c|c|c|}
\hline Uta-wa jala-zi: that-ACC hand-INST & \begin{tabular}{l}
teu \\
all
\end{tabular} & \multicolumn{3}{|l|}{cifala:-k,
brake.PAST-EXPR} \\
\hline cifala:n-zi-ni & teu & ani- & bede & \(b i=-n i\). \\
\hline brake.PP-INST-3SG & all & IND- & like & be-3SG \\
\hline ey brake it by hand, & , & bro & it & ks lik \\
\hline
\end{tabular}
\begin{tabular}{llll} 
[To:] & to:-wo & ile-iti & nixe: \(n-z i\). \\
fire fire-ACC & kindle-3PL & make.PP-INST
\end{tabular}

After that, they make fire.
\begin{tabular}{llllll} 
Uti wo:kto d'a & bede, & da: & bede lemde lemde, \\
this grass cotton.wool like cotton.wool like fluffy fluffy \\
uta-zi uta & pu:si-mi: & to: ile-iti. & \\
that-3SG that blow-INF fire kindle-3PL & \\
This grass is like cotton-wool, very fluffy; then they make fire blowing on it.
\end{tabular}

Pusa: \(\quad\) \{kak spicka ne gorit prosto). sort.of.grass like match not burns simply. This grass \{does not burn just like a match\}.
\begin{tabular}{lll} 
Uti nixe-gdeli & d'a-ni-ni & zegde-lisi-n(i)-de \\
that do-FOC & cotton.wool-AL-3SG & burn-CC-3SG-FOC \\
pu:si-mi pu:si-mi & zegde-li:-ni. & \\
blow-INF blow-SS & burn-INC-3SG & \\
After that, they burn the cotton wool, they blow, blow, and burn (it).
\end{tabular}
\begin{tabular}{llll} 
Zegde-lisi-ni & uta-la & taluga-zi & [taluga \\
burn-CC-3SG that-LOC & birch.bark-INST & birch.bark \\
guza-lie] fili] mo:-wo & [mo:-wo & mo:-wo] & og'ou \\
tear-3SG or tree-ACC & tree-ACC & wood-ACC & dry
\end{tabular}
mo:, sakta kua-inie, kua-kta kä:-li
wood brush.willow shave-3SG shaving-N near-PROL nede-i, pu:si-mi zegde-li:-ni.
put-PRP blow-INF burn-INC-3SG
When it starts burning, they tear off (a piece of) birch bark or put some wood, dry wood, \{or\} shave a brush willow and put the shavings nearby and it starts burning, while they are blowing.

To: ile-iti
fire kindle.PAST-3PL
They kindled fire with this.
uta-zi.
that-INST

Bi uta-wa ise-si-e-mi.
me that-ACC see-IM-PAST-1SG
I have seen this.
(Ja videl) uta-wa.
me saw that-ACC
\{I have seen\} this.
14. Old man Kanda and hares (told by Susan Čufuevǐ Geonka)

Zu: mafas'a bagdi-e-ti, omo baja, omo zoŋku-s'e. two old.man live-PAST-3PL one rich one poor-N
There were two old men, one was rich, the other was poor.
\begin{tabular}{|c|c|c|c|c|}
\hline Bagdi-mie live-INF & bagdi-mie, live-INF & \[
u t i
\]
that & mafas'a, old.man & zonku poor \\
\hline dian-a-ini & " \({ }^{\text {Bi] }}\) & & sina-si-je & \\
\hline say-0-3SG & me I & CC & bur & \\
\hline
\end{tabular}
say-0-3SG me IND-ACC burden.frame-V-IMP.2SG
sina-wa."
burden.frame-ACC
They lived, lived, the old man, the poor old man says (to his wife): "Pack my burden frame."
\begin{tabular}{lll} 
Xaikte-we jeu-gde-we & s'ou-we & sina-da-li. \\
dry.grass-ACC & what-FOC-ACC & scoop-ACC
\end{tabular}

She packed dry grass, a scoop, everything.
\begin{tabular}{lllll} 
"Uli & \(k \ddot{a}:-l a-n i\) & \(k e p t e-n e-z e-m(i)\), & tukca & min-a-wa \\
river & near-LOC-3SG & lie-DIR-SUBJ-1SG & hare & me-0-ACC
\end{tabular}
b'a-laga-li"....
find-PURP-3SG
"I will go and lie down near the river, so that the hares find me."
\begin{tabular}{lllll} 
Mamaka- \(\mathrm{mi}:-\) gdeli & "Si & tene & kawa-la & tu: sana \\
wife-AL.REF-FOC & you CONT & bark.house-LOC & all & hole
\end{tabular}
Tukca min-a-wa b'a-gi:-si:-ni tu: wokti-we, saya
hare me-0-ACC find-REP-PC-3SG all door-ACC hole
\(\begin{array}{lllll}\text { tu: } & \text { likpigi-je, } & \text { to: } & \text { xo:-lo-ni } \quad \text { likpigi-je. } \\ \text { all } & \text { plug-IMP.2SG } & \text { fire } & \text { over-LOC-3SG plug-IMP.2SG }\end{array}\)
When the hares find me, plug everything, the door, all the holes, plug (the flue) over the fire.
\begin{tabular}{lllll} 
Uta & bi: & \(e\)-lege-ni & tukca & xo:n-tigi-ni \\
that & be.PRP & NEG-PURP-3SG & hare & outside-LAT-3SG
\end{tabular}
jene."
go
(Do) so, so that the hares cannot escape outdoors."
Ute- bede jene-gi-e-k, jene:-ni uli that like go-REP.PAST-EXPR go.PAST-3SG river
kä:-tigi-ni.
near-LAT- 3SG
So he left, he went to the river.
Uli jä:-la-n(i) kepte:-k, kepte:-i, kepte:-i.
river bank-LOC-3SG lie.PAST-EXPR lie-PRP lie-PRP

He lay down on the river bank, he was lying for a long time.
\begin{tabular}{llll} 
Gagaga & ele: & sikie-gie ... & omo \\
INTER & tukca \\
eme:n-zi: & soon & evening-REP.PRP & one \\
come-PP-INST.SS & nare \\
near-PROL & &
\end{tabular}

In the evening one hare came up.
\begin{tabular}{lllll} 
"Od'o, & Kanda & od'o & i:mi & i:mi \\
grandfather & Kanda & \begin{tabular}{l} 
bude:-nie, \\
grandfather
\end{tabular} & why & why \\
die.PAST-3SG
\end{tabular}

INTER
"Why did grandfather Kanda die?
\begin{tabular}{llll} 
Xaikta-ni-de & bie & haigugugu, & to:-n(i)-de \\
dry.grass-3SG-FOC bePRES.HAB INTER & fire-3SG-FOC \\
bie & haigugugu, s'ou-n(i)-de & bie, \\
be.PRES.HAB INTER & scoop-3SG-FOC & be.PRES.HAB \\
haigugugu, \(\quad\) i:mi & bude-nie? & \\
INTER \(\quad\) why & die.PAST-3SG &
\end{tabular}

There is dry grass for putting in the boots, the fire, the scoop, why did he die?
Ai-ŋ'ei tukca-nie, haigugugu, eme-je-иe haigugugu,
fir.tree-N hare-3SG INTER come-IMP-2PL INTER
\begin{tabular}{lllll} 
sakt'ai & tukca-nie, & die-le & & tukca-nie, \\
willow.thicket & hare-3SG & far.from.river-N & hare-3SG
\end{tabular}
haigugugu."
INTER
Hares from the fir tree thicket, come here, hares from the brush willow thicket, hares from faraway places, come here, in order to fetch the dead grandfather back to his house."

Ute.
that
(He sang) like that.
Tukca eme-kte:-ni.
hare come-DIS.PAST-3SG
The hares came from different places.
"E:, uta bi:-te."
INTER that bi.PRP-FOC
"Ah, things are like this."
Tu: eme-kte:-ti.
all come-DIS.PAST-3PL
All of them came.
\begin{tabular}{lllll} 
[Mafa] & uti \(\quad\) od'o & mogolie & mogolie \\
old.man & that grandfather & around & around \\
mogolie & jeukte-si: \(\quad\) "Ge, & bude:-mi & \\
around & check-IM.PRP yes & die.PAST-INF
\end{tabular}
neu-gi-ze-ffi) kawa-tigi, mama-tigi
fetch-REP-SUBJ-1PL.IN tent-LAT wife-LAT
neu-gi-ze-fie."
fetch-REP-SUBJ-1PL.IN
They checked the old man all over, "Yes (indeed), he has died, let us bring him back to his house, to his wife."

Neu-gi-li-e-ti,
fetch-REP-INC.PAST-3PL f
neu-gi: zug-tigi,
fetch-REP.PRP house-LAT
neu-gi-e-k mafasa-wa,
fetch-REP-PAST-EXPR old.man-ACC
kawa-tigi, neu-gi-e:, mede:
tent-LAT fetch-REP.PRP report
\(\begin{array}{llll}\text { " } \mathrm{Ei} & \text { od'o } & \text { uli } & \text { kä:-la-ni } \quad \text { gekti-e-me-ni } \\ \text { this } & \text { grandfather } & \text { river } & \text { near-LOC-3SG freeze-PP-ACC-3SG }\end{array}\) neu-gi-e-u."
fetch-REP-PAST-1PL.EX
They started fetching, brought the old man back to his house, and reported:
"Here, we have brought back the grandfather frozen, from near the river."
"Aja, agda, aja", agda:-nie uti mamaka tukca good be.glad good thank PAST-3SG that old.woman hare neu-gi-e-me-ni.
fetch-REP-PP-ACC-3SG
"Good, thank you," - the old woman thanked the hares which had brought (the old man).

Uti agda:-nie, agda:-nie, wokti tu: xekegi-si-e-k. that thank-3SG thank-3SG door all tie-IM.PAST-EXPR
She thanked them and meanwhile closed the door.
Mafasa-ni xere xere te:-gi-mie olonki-zi
old.man-3SG quick quick get.up-REP-INF stick-INST
jene-wasi-e-ni j'eu-zi j'eu oloŋki bi-mie jeu,
beat-DIV-PAST-3SG what-INST what stick be-INF what
tamu-zi.
stick-INST
The old man got up quickly and beat (them) with a stick and with everything.
\begin{tabular}{lllll} 
Tu: & konko-si--li, & konko-do-i, & tamu-zi & konko-do-li \\
all & beat-IM-3SG & beat-SEM-PRP & stick-INST & beat-SEM-INC \\
omo & ani-we & tukca-wa & ku'ai-la-ni & p'ali-gde \\
one & IND-ACC & hare-ACC & ear-LOC-3SG & black-FOC
\end{tabular}
zegde-li tamu-zi.
burn-3SG stick-INST
He beat them and hit one hare's ears with a charred burnt stick.
\begin{tabular}{lllllll} 
(A) tamu paktana & tamu-de & [jala] jala zawa & uti & tamu \\
and stick hit & stick-FOC & coal coal ... take & that & stick \\
j'eu-gde-zi ... & ku'ai-ni & p'ali-gde. & & & \\
what-FOC-INST & ear-3SG & black-FOC & & &
\end{tabular}

And the stick with which he hit the hare was burnt, like coal.
\begin{tabular}{lllll} 
Utemi [ku'ai] tukca & ku'ai-ni & p'aligi bi:, & p'aligi, \\
then ear & hare ear-3SG & black be.PRP & black \\
ku'ai due-ni & p'aligi. & & & \\
ear end-3SG & black & &
\end{tabular}

That is why the hares' ears are black, the ends of the hares' ears are black.

Kanda mafa p'aligi tamu-zi cinge-da:-ni,
Kanda old.man black stick-INSTR hit-V.PAST-3SG
to: tamu-zi-ni. ...
fire stick-INSTR-3SG
The old man Kanda hit it with the black stick from the fire.
Uta-wa tukca- \(\boldsymbol{y i}\) tu: si:-si:, tu: zeute-nisi:. that-ACC hare-AL.REF all skin-IM.PRP all food-V.PRP They skinned their hares, cooked a lot of different food.
Baja mafa-wa gele:-ti sauli-masi baja
rich old.man-ACC invite.PAST-3PL have.feast-REC rich
mafa-wa sauli-masi-le-fi gele:-ni ...
old.man-ACC have.feast-REC-PURP-SS.PL invite.PAST-3SG
He invited the rich man to have a feast together.
\begin{tabular}{llllll} 
Uti dian-a-ini, "Ei zolku zonku mafas'a j'eu \(\quad\) j'e-we \\
that say- \(0-3 S G\) this poor poor man & mhat what-ACC \\
wa:-li & sauli-le-m(i) & gele-ini & minti-we?" \\
kill.PAST-3SG have.feast-PURP-INF invite-3SG we.IN-ACC \\
He says, "What did the poor man kill to invite us for a feast?"
\end{tabular}
\begin{tabular}{lllll} 
"A:, & tukca & wa:-ni & [sin-e-we] & tukca \\
INTER & hare & kill.PAST-3SG & you-ACC & hare \\
wa:-ni, & sauli-le-m(i) & geli-mie" & ani \\
kill.PAST-3SG & have.feast-PURP-SS & invite-IC & IND
\end{tabular}
mamaka- \(\eta i\)-ni dian-a-ini.
old.woman-AL-3SG say-0-3SG
"He killed hares to invite you for a treat," says his wife.
"Ge, jene-ze-f(i)", jene:-ti.
INTER go-SUBJ-1PL.IN go.PAST-3PL
"Well, let us go," and they went.
Gele-yie [baja-ni] zoŋku-s'e, läsi zeute-ŋisie
invite-IC rich-3SG poor-N much food-V.PRP
tukca-zi, tukca ule:-we-ni.
hare-INST hare meat-ACC-3SG
The poor man invited (the rich one), cooked much food of the hares, the hare meat.
\begin{tabular}{llllll} 
Uta & diga-si., & xauntasi., & "Si & ono & wa:- \(i\) \\
that & tukca, \\
eat-IM.PRP & ask.PRP & you & how & kill.PAST-2SG hare
\end{tabular}

\section*{lä egdi tukca-wa? \\ very many hare-ACC}

Then they ate, (the rich man) asked, "How did you kill so many hares?
\(\begin{array}{lll}L \ddot{ } & \text { egdi ono } & \text { wa:-mu? } \\ \text { very } & \text { many how } \\ \text { kill-INF }\end{array}\)
How can one kill so many?
[Si] bi sin-digi-de egdi wa-zana-i tukca-wa.
you me you-ABL-FOC many kill-FUT-1SG hare-ACC I will kill even more hares than you did.

Si wac'a wa:-i."
you little kill.PAST-2SG
You killed little."
\begin{tabular}{ll} 
"Ge, manga-zi & wal'a-ta-i-ze." \\
well strong-INST & luck-PERM-2SG-HORT \\
"Well, good luck!" &
\end{tabular}
\begin{tabular}{llllll} 
Mafa & gdeli & baja & mafa & zug-tigi & neni-e-k, \\
old.man & FOC & rich man & house-LAT & go-PAST-EXPR \\
timana-ni & ani & mamaka-ni & dian-a-ini, & "Dogdie, & si! \\
tomorrow-3SG IND & wife-3SG & say-0-3SG & listen.IMP.2SG you \\
The rich old man went home and the next day he said to his wife, "Wife!
\end{tabular}

Let us pack my burden frame, I will cheat the hares, I will go and lie near the river, so that the hares bring me back home.
\begin{tabular}{lllll} 
"Si & \(j\) 'eu & mute-zene-i, & \(j\) 'eu & si..." \\
you what & maka-ni \\
can-FUT-2SG & what & you & \\
old.woman-3SG
\end{tabular}

Ge, [si ute be].
well you that like
"Well, it will be like that.

Bi ute be zoŋku..."
me that like poor
I (will do) like the poor man did."
\begin{tabular}{lllll} 
nene:-ni & sina-da-na:, & & uli & kä:-tigi-ni \\
go.PAST-3SG & burden.frame-V-PC.SS & river & side-LAT-3SG \\
nene:-k, & uli & kä-la-ni & & kepte-nie, \\
go.PAST-EXPR & river & side-LOC-3SG & lie.PAST-3SG
\end{tabular}
kepte:-i..
lie-PRP
He went to the river bank having packed the burden frame and lay near the river.

Ele bude bede kepte-ini, kepte-ini. soon die like lie-3SG lie-3SG
He was lying as if he was going to die.
\begin{tabular}{lllll} 
Omo & tukca eme:n-zi:, & "Sakt'ai & tukca-nie & haigugugu, \\
one & hare come.PP-INST.SS & willow.thicket & hare-3SG & INTER \\
mafa & i:m(i) & bude:-nie & haigugugu. & \\
old.man & why & die.PAST-3SG & INTER &
\end{tabular}

One hare came (and said), "Hares from the brush willow thicket, why did the old man die?
\begin{tabular}{lll} 
Ai- \(\boldsymbol{y}\) 'ei tukca-nie & haigugugu, eme-je-ue & haigugugu." \\
fir.tree-N hare-3SG & INTER & come-IMP-2PL.EX \\
Hares from the fir-tree thicket, come here." & INTER
\end{tabular}
\begin{tabular}{lllll} 
Tukca-ni & em'e, & sakt'ai & tukca-ni & bi: \\
hare-3SG & come.PERF & willow.thicket & hare-3SG & be.PRP \\
tukca-ni & eme-kte:-ti, & lä & eme-kte:-li.
\end{tabular}

The hares came up, hares living in the brush willow thicket came together, many came.

Lä tukca mogolie mogolie xuli:, jeukte-si.: many hare around around walk.PRP check-IM.PRP Many hares walk around and check (if he is really dead).

\begin{tabular}{llllll} 
Ge, neu-gi-li, & ge, eme-li & omo tukca & \\
well bring-REP-3SG & well come-3SG & one hare & \\
xukti-li-e-ni, & ku'ai-ni & p'ali, & ku'ai-ni & due-ni \\
skip-INC-PAST-3SG & ear-3SG & black & ear-3SG & end-3SG \\
p'aligi. & & & & \\
black & & & & &
\end{tabular}

They started to carry him, here comes a hare with black ears, with black ends of the ears.
\begin{tabular}{llll} 
"Alasi-je-u & haigugugu, & alasi-je-u & haigugugu. \\
wait-IMP-2PL.EX & INTER & wait-IMP-2PL.EX & INTER
\end{tabular} "Wait, wait!

E-zi-u nixe!
NEG-IMP-2PL do
Do not do it!
\begin{tabular}{lllllll} 
Tineni & min-e-we & ute & bede omo & uti & zoyku & Kanda \\
yesterday & me-0-ACC & this & like one & that poor & Kanda \\
mafa & min-e-we ute & bede-gdeli, & ku'ai-la-i & \\
old.man & me-0-ACC & this & like-FOC & ear-LOC-1SG
\end{tabular}
p'alig(i)-de ku'ai-de ayi.
black-FOC ear-FOC IND
Yesterday one poor old man, Kanda mafa, (cheated) me like this, (that is why) my ears are black.
\begin{tabular}{llll} 
Uli-tigi & wende-je & a-wa, & uli-tigi \\
water-LAT & throw-IMP.2SG this-ACC & water-LAT \\
wende-i, & gun-e-ini, & mafasa-wa." \\
throw-IMP.2SG & say-0-3SG & old.man-ACC
\end{tabular}

Throw him, this old man, into the water, he said, throw him into the water."
Gegege uta düsi..... "Uli-tigi wende-je
INTER that hear.PRP water-LAT throw-IMP.2SG
haigugugu, e-zi-u
neu-gie haigugugu," xe:ti:-ni.
INTER, NEG-IMP-2PL carry-REP INTER shout-3SG
The old man heard it, "Throw him into the water, do not carry," he shouted.
Xe:ti-m(i) xe:ti-mi tukca ono-dom ono-dom
shout-INF shout-INF hare how-IND how-IND
xukti-ne:-ni.
skip-DIR.PAST-3SG
Shouting the hares skipped this way and that.
\begin{tabular}{lll} 
"Gegege, uli-tigi & \begin{tabular}{l} 
wende-ze-fi,
\end{tabular} & uli-tigi \\
INTER & water-LAT \\
wende-je, & & gun-e-ini.
\end{tabular}
"Let us throw him into the water, throw him into the water, (the hare) said.
\begin{tabular}{lllll} 
Tineni \begin{tabular}{llll} 
xai uta-zi & zolku & zonku mafasa & min-e-(we) \\
yesterday to that-INST & poor & poor old man & me-0-(ACC) \\
ani-e-ni & ute & bede & cemine:-ni."
\end{tabular} & \\
IND-PAST-3SG & this & like & cheat.PAST-3SG &
\end{tabular}

Yesterday, too, the poor old man cheated me like this."
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{4}{|l|}{\begin{tabular}{lcl}
\(G e\), & uli-tigi & \(z^{\prime} e\) \\
well & water-LAT & as.soo
\end{tabular}} & \begin{tabular}{l}
wende-li: ... \\
throw-3SG f
\end{tabular} & \begin{tabular}{l}
bogolo \\
fat
\end{tabular} & uli-tigi \\
\hline wende.. & & jazata & xelibe & \multicolumn{3}{|l|}{te:-gi-e-ni,} \\
\hline row & & of.course & quick & \multicolumn{3}{|r|}{get.up-REP-PAST-3SG} \\
\hline omo & omo-wo & tukca & zuke & :-ni & & mafasa, \\
\hline e & one-ACC & hare & hardly & catch.PAS & & old.man \\
\hline
\end{tabular}
baja mafa.
rich old.man
As soon as they threw the fat old man into the water, the man, the old man, got up quickly and hardly caught one hare.
\begin{tabular}{lll} 
Ketige & uli-tigi & wende:-ni. \\
nearly & water-LAT & throw.PAST-3SG
\end{tabular}

They nearly threw him into the river.
yene:-ni zug-tigi, ji., tukca, sina-wa
go.PAST-3SG house-LAT enter.PRP hare burden.frame-ACC
\(a \eta i \quad n e u-g i-e-n i\).
IND bring-REP-PAST-3SG
He went home, entered, brought back one hare and the burden frame.


Uti zoŋku mafasa-de iñekte-ili, "Gegege, ono this poor old.man-FOC laugh-3SG INTER how
\begin{tabular}{llll} 
min-a-wa & zakt'a-si: & tukca-du & uli-tigi \\
me-0-ACC & do.like.another-PC.SS & hare-DAT & river-LAT
\end{tabular}
keti(ge) wende-wo:-ni.
nearly throw-PAS.PAST-3SG
The poor old man laughed, "Ha-ha-ha, he did like me, (but) was nearly thrown into the river by the hares."

\section*{Chapter 26 \\ Thematic lexicon}

The thematic lexicon represents the core vocabulary of Bikin Udihe grouped into conventional semantic fields. The structure of the lexicon is to some extent based on Kibrik and Kodzasov (1990), however, it differs from it both in section divisions and in the position of concrete words. Within each section words are organized on semantic grounds, while the list of ideophones in 26.3 is presented alphabetically. The lexicon of the Northern dialect is fairly comprehensively represented in Simonov and Kjalundzjuga (1998-1999).

\subsection*{26.1. Nominals}

\subsection*{26.1.1. Body}

\subsection*{26.1.1.1. Head and neck}
\begin{tabular}{ll} 
head & dili \\
neck & mü̈̈ \\
skull \\
chin, jaw & (of a bear) zei \\
face & zei \\
cheek & degdi \\
Adam's apple & sasa \\
forehead & kayue \\
temple & xeje \\
eye & kämikte \\
wall-eye & ja: \\
pupil of the eye & käktugu \\
eyelash & niziga \\
eyebrow & samikte \\
eyelid & guluge \\
ear & kempukte \\
lobe of the ear & ku'ai \\
nose & cempukte \\
beak & nö: \\
back of the head & zogzo \\
top of the head & kekpese \\
& temuge
\end{tabular}
mouth
lip
tongue
gum
tooth
milk-tooth
fang
molar
throat
bronchial tubes, wind pipe
palate
muzzle, snout
antlers, horns
aŋma
xeme
\(i \eta i\)
texe
ikte
somoso ikteni
guja, suka
s'aiguni
zokpo, (sore) kute
kogu
ke
lüimo
\(j e\) :

\subsection*{26.1.1.2. Trunk}
body, trunk
dead body
back
side
shoulder
breast
chest
udder
nipple
waist
penis
vagina
testicles
tail
bottom, anus
26.1.1.3. Extremities
\begin{tabular}{ll} 
arm & そala \\
paw & bugdi \\
elbow & iso: \\
hand & そala \\
fist & saŋtu \\
palm & xaña \\
finger & uña, (second) sö., (third) dulumti, (fourth) \\
& čimcai ag'ani, (fifth) čimcai
\end{tabular}
\begin{tabular}{ll} 
phalanx & to: \\
thumb & xo: \\
nail & waikta \\
claw & cof'o \\
handful & cof'o \\
back of the hand, instep & numni, xaña umnini \\
nipper & eunge \\
foot of web-footed & pataga \\
sole & xagdigi \\
leg & bugdi \\
ankle & kuandugu \\
shin-bone & uinki \\
heel & ( \(\eta\) )inti \\
hip & wo: \\
knee & xeŋe \\
kneecap & bölo \\
lap & bege \\
hoof & (of a cow, deer, moose, boar) (w)u:; (one half) \\
& kokco \\
wing & daptä \\
fin & zu:i, (side) usa, (dorsal) cösökö
\end{tabular}
26.1.1.4. Internal organs and bones
\begin{tabular}{ll} 
heart & mäwa \\
lung & eunte \\
liver & x'ei \\
spleen & a:mi \\
stomach & emugde \\
gut & sulukta \\
tendon & simu \\
vein & sakä umaktani \\
marrow & uma \\
roe & cafa \\
bone & gäma \\
shoulder-blade & sä: \\
pelvis & deuxi \\
backbone & ni:kta \\
lumbar vertebrae & da:ma \\
fibula, radius & ile \\
thigh-bone & bonga \\
joint & zala \\
cartilage & kefutige, neptige
\end{tabular}
26.1.1.5. Surface of the body
\begin{tabular}{ll} 
skin, hide & nä, (fish) sugbu, (of a bear) ñata \\
wool & \(\tilde{n} u k t e\) \\
hair & \(\tilde{n} u k t e\) \\
plait & jakti, (on the side) xekele, (behind) bänza \\
mane & \(\tilde{n u k t e}\) \\
mole & xanikte \\
sore, scab & koxo \\
beard & gu(z)akta \\
moustache & gu(z)akta \\
feather & ofokto \\
pimple & pusilakta \\
scales & e:je, ekte \\
callosity & sakta \\
wound & sie \\
scar & kalä \\
bruise & \(\tilde{n o k o}\) \\
wrinkle & bakči
\end{tabular}
26.1.1.6. Soft substances and secretions
\begin{tabular}{ll} 
brain & dui \\
blood & sakä \\
sweat & nieni \\
tear(s) & inamukta \\
saliva & zalä \\
snivel, drool & ligba \\
bile & silie \\
gall & zo: \\
milk & kos'o \\
pus & \(\tilde{n a \eta n ̃ a ~}\) \\
urine & suo \\
excrement & amu \\
bird' s dung, droppings & saña
\end{tabular}

\subsection*{26.1.2. Man}
26.1.2.1. Kinship terms and related notions
relative
youth
(of the same generation) \(x a\) :, (relative) \(z a\) :, (by marriage) sengite
\(\tilde{n}^{\prime}\) aula

son-in-law
cousin
nephew, niece
twins
orphan
widow
widower
clan, kin
family
old maid, spinster
bachelor

\subsection*{26.1.2.2. Social roles}
neighbour
guest
friend
enemy
master, owner
ruler
chief, boss
oldest man
hired worker
servant
soldier
merchant
teacher
26.1.2.3. Nationalities

Udihe
Chinese
Russian
Japanese
Korean
Jakut
Evenki
Nanai
Oroch
kodu
zalä, (younger) nazakta, (mother's elder
sister's child) to:xo
(elder sister's child) nequ, (younger sister's child) inas'a
ad'au
a a aza
nau, nau a:ntani
nau, nau nintani
\(z e\) :
zugdinke
xatala mamani
poutuize
nimeyke
zima: ni:
anda
bagäu
xente
eze
zangä
sagdimzi
lauzi, kekese
elči
cawa:
xudasi: ni:
säysäya, učiteli
udie
ninka
lusa
i:bene
gauli
joko
kile
maymu
namuøka

\subsection*{26.1.3. Animals}
\begin{tabular}{ll} 
female & \begin{tabular}{l} 
(of small beasts) guas'a, (of fishes, birds) \\
eñece, (of hoofed animals) eni( \(n\) ) \\
male
\end{tabular} \\
(of small beasts) mugeti, (of fishes, birds) \\
amina, (of hoofed animals) logoso, etige (of \\
tiger and bear)
\end{tabular}
26.1.3.1. Domestic animals and fowl
\begin{tabular}{ll} 
domestic animal & wo: \\
cow & ja: \\
pig & wagä \\
horse & mui \\
dog & in'ei \\
puppy & kasanziga \\
cat & keige \\
hen & n'au \\
duck & gaja
\end{tabular}
26.1.3.2. Beasts
beast, animal
badger
racoon-dog
hare
squirrel
fox
wolf
chipmunk
mouse
shrew
rat
marten
lynx
hermine
sable
otter
glutton
Siberian weasel
Manchu deer
roe
bui
jandasa
nautu
tukca
oloxi
sul'ai
ñenu
xualibanza
sige
čundie
sagdi sipe
kai(a)
tibzexi
zelexi
ñö:
z'oto, zugu
ondo
solö
käna, (one-year old) sigis'a, (young) barakča
giusa, pauza
moose
boar
musk-deer
tiger
snow leopard
bear
leopard
lynx
pole-cat
monkey
jackal
bat
flying squirrel
26.1.3.3. Birds
small singing bird
bird of prey
wild duck
raven
crow
sparrow
cuckoo
owl
eagle-owl
eagle
hazel-hen
wild goose or swan
heron
heath-cock
woodpecker
jay
wood pigeon
magpie
night bird (Otus sunia)
ogbö
nakta, (one-year old) sü:, gulugese, (female)
atiga, (male) zei
anda
kuti, (cub) kuti xuga-ni, (one-year-old) kuti
bakana-ni, (two-years-old) dükto
meku
mafa, songo, (cub) xuga, (one-year-old)
bakana, (Manchu) na:niji, (Himalayan)
guaizima
simoule
tibzexi
selende
xeuze
zaku
elegdige
bokto

\section*{čind'a}
gäxi
gaja, (Anas formosa) cuguse
wali
g'ai
zätöu
keku
guakči
ukä, ga: mafa
käsa
sumuxi
ñuŋñai
nasaxi
aima
boxolo, (big) kuexi
ju:xä
ku:nti
pa:mp'ai
topto
26.1.3.4. Cold-blooded animals, fishes, and water animals
fish
greenling
bulltrout
burbot
salmon
crawfish
pike
minnow
chub
roach
sazan
sig, whitefish
bullhead
grayling
crucian
goby fish
Misgurnus anguillicaudatus
shellfish
snake
frog
toad
tortoise
grass-snake, sledge runner snail
fry
whale
sugzä
zauŋa
zeli
\(c \ddot{c}\) :
(Siberian salmon) dawa, (humpback salmon)
oxo,
cendexi
guese
ilondo
jabada
jalä
kaktä
kali
las'a
nugusa
duguaza
l'asa
sumundi
ga:la
kuliga, (small) miki
e:xi
ja:la
wayba
zabda
zauda
wajakta
kalima
(in water) kuliga, (small) kukpu
kuligas'a, (earth) silikte
gobo(do)
afun'au
ige:
kü: goboni
jamakta, (large) cincaula, (in autumn)
xumukte
рӧи
iktente
kuaña, (night) gawakta
spider
cockroach
flee
loose
forest-bug
tick
dragonfly
caterpillar (hairy white)
ataxi
zanlana
sua
kumuge
exinie
käfa
gindaula
sefe, (hairy green) tuibo, (not hairy) ñolö

\subsection*{26.1.4. Plants}

\subsection*{26.1.4.1. Trees}
tree
cedar
fir tree
birch tree
oak tree
Manchu nut tree
poplar
larch tree
ash-tree
aspen-tree
willow tree
elm
bird cherry tree
lime-tree
yew tree
cork tree
silver fir
hawthorn
Siberian apple-tree
mo:
küka
aikta
talu, (young) cafakta
olonkö
kusikta
amigda
ji:
bul'a
xulu(gda)
sakta
tizaŋkä
isompo
eigde
taktig'a
kokto
okto
zalikte
ulinkä
26.1.4.2. Bushes, shrubs, herbs
bushes, shrubs
grass
flower
berries
schizandra (a local creeper)
barberry
raspberries
mokt'oi
okto
ila, xua
gegbenku
usimpä, limonika
sa:
eturgie bambatani
\begin{tabular}{ll} 
blueberry & dikte \\
cranberry & g'ata \\
cowberry & teukte \\
berries of yew tree & sama gegbenkuni \\
red currents & kosolo \\
wild grapes & musikte \\
ginseng & olondo \\
poppy & dajana \\
lily & gila \\
Angelika (an edible plant) & aunta \\
hemp & sikte \\
honeysuckle & xafakta \\
goose-foot & xucei \\
a prickly bush & kömpo \\
fern & ni:kte, (Pteridum) x'eutui bugdini \\
horse-tail & su:kte \\
ledum & senkie \\
nettle & xalaxai \\
honey agaric & zepmo \\
moss & labuge, lexenke \\
water-plant & kombokto \\
slime, mire & konolo
\end{tabular}
26.1.4.3. Fruits, vegetables, crops
\begin{tabular}{ll} 
vegetables & c'ai \\
melon & sänguaza \\
watermelon & sigua \\
grapes & mesikte \\
onion & cūe \\
garlic & düce, (wild) disokto \\
cucumber & xuangu \\
potatoes & tuduze, sañ̈u \\
squash & wogu, siguli \\
beans & deuze \\
pea & tuli \\
corn & boulimi, boulime \\
millet & zakta \\
rice & zaymi \\
green radish & loboi \\
mushroom (growing on trees) & bot'o, mougu \\
&
\end{tabular}

\subsection*{26.1.4.4. Parts of plants}
wood
brushwood
branch
leaf
bark
root
acorn
bast
nut
seed
stamp
excrescence on a tree
thorn
pine-cone

\subsection*{26.1.5. Food and drinks}
food
flour, dough
corn flour
yeast
bread
roasted flour with sugar
sugar, sweets
salt
honey
millet or rice broth
millet or rice porridge
bun
flat cake
meat
meat dumplings
dried fish
boiled fish
raw fish
fat
mo:
käfakta
(bough) ga:, (thin) sue
abdä:
wakta
texe
wikta
ilakä
(cedar) ikte, (Manchu) kusikta, (hazel)
zelzegei
ceme, ikte
mugd'a
kanda
köŋpo
(of fir-tree, larch tree) kongolo, (of cedar)
nanta, seutige

\section*{zeи}
mäna, efe
c'aza
mäna oktoni
xeleba
mänca
sata
s'ei
kü:
zakta
(thick) gampa, (thin) lala
pampuška
(fried) bula or kakčima, (with bird-cherries)
ja:, galäya
ule:
maŋtu, bänči
(whole salmon) ma:la, (half of salmon)
ñamikta, (salmon without roe) deipte, (cooked)
solimi
olo:
t'ala
imo:, (boiled in pieces) leme
\begin{tabular}{ll} 
egg & umakta \\
potato meal & läncei \\
pickled vegetables & sajcainisa \\
soup & colo, (made of dried salmon) solimi \\
juice (of berries), broth & sile \\
tree sap (of birch) & čönki \\
milk & ja: xabani \\
vodka & 'ai \\
tea & caja
\end{tabular}
26.1.6. Clothes and jewellery
\begin{tabular}{llll} 
gown, dress & tege & & \\
trousers & xeig I & & \\
apron & leli \\
abdominal band & deudeli & & \\
(summer) shirt & mokčo & & \\
head-dress & pumpu & & \\
sleeve & ukie & & \\
scarf (made of squirrel tails) & mo:pti & & \\
cap & au, (winter hunting cap) bogdo & \\
kerchief & seuzine & & \\
collar & linze & & \\
ear-flaps & zauga & & \\
belt & umu, (small) telie & & \\
footwear & uyta, (home) watuze & & \\
mittens & (leather) kol'o, (cotton & wool) & wambaxi, \\
& (fabric) kasama & & \\
knee bandage & wa'ipti & & \\
jewellery & janza & & \\
ring & uñapti & & \\
nose-ring & s'a & & \\
beads & monoli & & \\
earring & weige & & \\
bracelet & belepti & & \\
button & to: & & \\
spectacles & jagdugu & & \\
fan & sanza & & \\
hair lace & weiptinke & & \\
& & &
\end{tabular}

\subsection*{26.1.7. Material activity}

\subsection*{26.1.7.1. Tools}
instrument
braking tool
scratching tool, scraper
knife
scissors
axe
hatchet
hammer
saw
hoe
drill
awl, gimlet
plane
nail
twist tool
pincers
file
sickle
crow
spade
mill
stretching frame
bellows
anvil
whetstone
fire-stone, flint
needle
thimble
thread
xazu
kainku
kede, (w)u:
kusige, (with crooked blade) afili, (for
scratching the ornament) \(u\) :dugu
xaza
suese
(for the boat bottom) xe:meyku, (for the boat inside, with crooked blade) dosinku
xaluga
züi
gautu
оуо
sigu
tüifaŋa, tüibo
tikpe, (small) cebe
maktigi
eunge
jö:
jandau
keli
guaŋčou
lamo:
kaŋau
kuge
zile
päyku, sue
bu:
inme
uñapti
siekte
26.1.7.2. House objects and utensils
utensils, things
dishes
spoon
sharp stick for taking meat ladle
xalängie
tekpu
unipa
sikpou
kuñzi
scoop
chopsticks
bowl
basin
mug
plate
bottle
caldron, pot
sauce-pan
kettle
grater
bucket
grill
cutting board
mat
rag, duster, nappies
broom
oven
stove
chair, stool, bench
mirror
table
chest
box
backpack, burden frame cradle
(plank) bed
pillow
blanket
mosquito curtain
store-house
sticks for drying fish
scabbard
paper
lid, cover
handle
rope
lock
key
hook
pipe
tobacco-pouch
comb
soap
s'ou, (for boiled fish) juge
sabuga
(wooden) moxo, (of birch bark) xasa
penze
cawa
(wooden) oto, (china) caymi
tukulu, banza
(large) joxo, kala, loŋko
mangwana
joxo, cuanza
canku
mulexi, (of birch bark) mogu:
länzi
si:nku
soktou
lugba
akpuyku
zаихи
biliči
teŋku
xanayku
zueze
konz'o
(made of birch-bark) xasa, komoxo
sina
emuge
kaŋa
zentu, tiu
xula
zampa
zali, (small) deke
degити
komixi
xauja
wopti, deipti
xei
xeku
jausu
jausu luktaŋkuni
ob'o
dei
xali
igdu, mele
ji:ze
toy
doll
sack
bag
money

\subsection*{26.1.7.3. Dwelling}
city, town
settlement
house
tent, yurt
night shelter
door
doorway
roof
rafter
floor
window
wall
sleeping place
entrance hall
threshold
hearth
flue
fence
nest
burrow, hole
26.1.7.4. Hunting, fishing

\section*{bow}
bow-string
arrow
shaft of the bow
arbalest
gun
cartridge
fishing rode, hook
net
guezene, gusikči
z'afa
keudi, lamba
(for hunting) padu, (for tools) puta
\(z a ̈:\)
xoto(n)
bagdu, ige
zugdi, (winter) tueze
(grass) kawa, (bark) colo, maiga
aŋa
wopti
uke:
zugdi xo:ni
savi
weige, pala
pa:, conku
kepte
bä:
utulu
uke: te:ni
to:pti
saŋnämugu, tuŋmuge
zayza
\(x u i\), (of a squirrel) \(l o(g \ddot{)}) i\)
\(a g d u\), (in the tree roots) gua

\section*{bei}
alaya ju:ni
tada, (with the soft end, used by children)
zayta
alana
peu
mä:usa, mäunda, (small-calibre) päkčika, (double-barrel) kab'ou
ma:li
иm'a
adili
harpoon
trap
spear
hunter's horn
meime, (large) zogbo
(iron) kakpa, lau, ča:za, (for small animals)
lani
gida
bunijku
(canoe) ugda, (large) 'ana, (Russian) temtige pataxi, (for canoe, small paddle) megu, (long) su:
gäи
gäu
tuxi
ala
fuetipe
xuece
se:
kingele, (fur-lined) suala,
26.1.7.6. Cloths
cloth
silk
wool
brocade
leather(n)
fish skin
cotton wool, wadding bast
broadcloth
sexi
seule
inakta, tanza
gäncu
ña:
sugbu
d'a
ilakä
zanza
26.1.8. Non-material culture
26.1.8.1. Verbal activity
word, language
name
tale
legend, story
riddle
news, information
keje
gegbi
nimajku
teluyu
nagbuŋku
mede

\subsection*{26.1.8.2. Music}
\begin{tabular}{ll} 
shaman's tambourine & uptu \\
shaman's beetle & konokto \\
bells & komokto \\
flute & kinula \\
jaws harp & kuykai \\
string instrument & zuläyka \\
song & jexe
\end{tabular}
26.1.8.3. Traditional beliefs and rituals
god
shaman
ritual pole
shaman mask
shaman belt
idol of a good spirit
spirit
soul
ream of dead
guessing stone
straw dolls used by shamans
\(\sin\)
dragon
altar
gnome
talisman
ritual lard
26.1.8.4. Abstract notions
\begin{tabular}{ll} 
luck & kesi \\
misfortune & zuge \\
honor, respect & gebu \\
strength & meje \\
dream & tokö \\
sound & uga \\
voice & keje \\
illness, disease & unugu \\
pain & uni
\end{tabular}
\begin{tabular}{ll} 
fault & baita \\
smell, scent & xu( \(n\) ), bapta \\
taste & amta \\
debt & nagda \\
share, part & obo \\
law, custom & koli \\
shape & due \\
colour & bono \\
space & colo \\
part, piece & pei \\
end & meje \\
occasion & muda \\
circle & monto \\
side & ogbo \((n)\) \\
half & kakt'a(n) \\
gap & agda \\
kind, sort, kin, age & se: \\
spare time & eke
\end{tabular}
26.1.9. Natural objects and substances
world \(b a\) :

\subsection*{26.1.9.1. Earth}
earth, soil
taiga
hill, mountain
rock
cave
gorge
mountain pass
road, track
glen
field, clearance
bog
pit
26.1.9.2. Water objects
water
uli
foam
na:
ba: xo:ni, ba:za geni
we:, (rocky) käma
gula
ongo
zeu, jakpa
ada, tumie
xokto
ala
biga
n'au
pöngo
flood
wave
drop
bubble
stream
spring
lake
sea
seashore
creek, back-water, gulf
river
river-bed
river mouth
river-head
arm of a river
stretch of a river
fork of a river
blockage of a river
dried river-bed
turn of a river
river bend
riverbank
ford
bridge
spit
shallow
rapids
watering-place
spawning place
island
26.1.9.3. Sky
sky
sun
moon
star
cloud
rainbow
Mars
Milky Way
mude
jaki, xene
sabda
komokto
eje
ñuxala
toni
namu(n)
kä:
'asa
uli, (small) bäsa
zu:
data
de:
jogoso
unakta
zawa
mono, kenme
janata
mogz'o
töทo
kä:
olonko
deumi
bita
ugbe
gidänku
zempu
dawasikči
bugasa
ñanna(n)
su:
bä:
waikta
tokö
agdi sauykini
xuakta
Kanda mafa duktama:ni (literally: 'the old man Kanda's skiing')

Ursus Minor
Ursus Major
nada xatala
zali baŋnä:ni
26.1.9.4. Natural substances
gold
silver
iron
tin
copper
sand
stone
dust
clay
lead
mud
ashes
coal
ice
resin
soda
aisi
теути
sele
jaŋtä
tusi
oñokto
zolo
p'ai
t'apti
tuza
lifakta, tifakta
xulepte
jala, zaya
\(z u g e\), (smooth river ice) kägda
nute
zäna
26.1.9.5. Natural phenomena
wind
storm
thunder
rain
snow
fog
hail
fire
smoke
frost
steam
shade
edi
si:
agdi
tigde, (with snow) lada
ima,: (newly-fallen) zaka
tamña
bono
to:
sanña
gekti
sogdo
umni
26.1.10. Time
\begin{tabular}{ll} 
year & aŋa \\
month & bä: \\
spring & neki
\end{tabular}
summer
autumn
winter
day
night
evening
morning
dawn
noon

\subsection*{26.1.11. Spatial notions}
south
north
place behind
place before
place on the left side
place on the right side
place the opposite side
place upstream
place downstream
place far from the river bank
or the fire
place close to the river bank
or the fire
place inside
place outside
place on the top
place on the surface
place above
place below, under
place between
place along
place in the middle
place close
place near
place far away
place on the side
corner
angle
zиа
bolo
tue
(when counting time) nemi-(ni), (time of the day) ineni-(ni)
dogbo
sikie
tima-(ni)
gäwa, ine
sayxua
züe, fuleye
sugala
tauze-, ca:-, (in movement) amä:(za)-, (on the
back) aka-
zulie-, ñondu-, ño:-
diene-
a:ŋa-
bagä:(za)-
solie(ze)-
ezi(ze)-
die-
ŋä:-
do:-
ba:-
(at the pointed end) due-
(w)ui-/we:-, ge:, ojo-
xo:(n)-
xegie-
agda(n)-
cu-
dulayki-, (in the center) tayki-
auze-, da:(s'a).
kä:-
go:-, (very far) cai-
e:-, ogdo-
koso(n)
coto

\subsection*{26.1.12. Adjectives}

\subsection*{26.1.12.1. Colour}
red
green
white
yellow
black
gray
blue
orange
brown
pink
purple
violet
dark
pale
stripy
spotty
transparent
26.1.12.2. Taste
tasty
untasty
sweet
sour
bitter
salty
26.1.12.3. Form and size
big
small
tall, high
low
thin
thick
wide
narrow
xutaligi
ñöligi, (emerald-green) isenti
c'aligi
xoligi
p'aligi
xuynaligi
ñöligi
soligi, kancantu
xexeligi
duymal'a
duymal'a
zidi
xakti:
käligi
kedeligi
toptoligi
gegze
xei, amtaxi
muktu
sata, zei
zui
guači
s'ei
sagdi
nic'a
gugda
neptes'e
(of round objects) nemnes'e, (of flat objects )
nemuges'e
(of flat objects) dä:mi, (of round objects) bou
eyme
kangäsa, käbau, (of the internal space) xaŋgäs'a
deep
shallow
short
long
ball-shaped
round
flat
bulging, prominent
pointed
sharp
blunt
sparse, flimsy
sloping
crooked
concave
supta
xayus'e
uтас'a
wanimi
bomboligi
montoligi, bombo
nepteligi
kumpuligi
kicoligi
emei
e:de
sembeligi
neneptile
tokčigu, goj'ou
zongoligi
26.1.12.4. Properties of men and animals
adult
old
fat
blind
deaf
blind in one eye
hunch-backed
strong
weak
ill
pregnant
thin
neat
shaggy
curly
naked
bald
cheerful
wicked, angry
alive, vivid
greedy-witted
stupid
clever
skilful
greedy
elu
sagdi
bogo
bali
kongo
böngo
boxo, logozo, logzolig
kuixi, m'ai, manga
ede
unuguxi, sulei
ge:nzi
kono
kika
loxo, sezeligi
kokčiligi
mogzo, zongo
kotoi
gabzi
\(k e\) :
inigi
zana
diliga, paga, e:de
mejexi
paki
digaŋku
\begin{tabular}{ll} 
rich & baja \\
poor & zoŋku
\end{tabular}
26.1.12.5. Other physical properties
\begin{tabular}{ll} 
beautiful & alagdig'a, uligdig'a \\
nice, good & aja \\
bad & ge: \\
old & da:mpi \\
new & imexi \\
thin (of voice) & limas'a \\
high (of voice) & lämuges'e \\
low (of voice) & eqme \\
loud & igdi \\
quite & eke \\
light & enimes'e \\
pliable & zas'a \\
hard & m'ai \\
wet & nuktu, (of firewood) naligi, cifon'oi \\
dry & \(\tilde{n}\) amai, (a liquid) bug \\
cold & (weather) inini:, (objects) gili: \\
hot & xekui \\
prickly & gaf'a \\
bright & negze \\
quick & tuge \\
swift & ku'aja \\
dirty & tegbeni: \\
clean & ganzina \\
empty & keqku \\
full & tapči \\
whole & muj'ei \\
rotten & näktu \\
raw & näligi \\
slippery & bugdi, kängu \\
stinking & xuxi, nagdugu \\
thick & (of food) tekti: \\
&
\end{tabular}
26.1.12.6. Other
left
right
far
dieyeze
ajaza
go:
\begin{tabular}{ll} 
near & \begin{tabular}{l} 
da:sa \\
xonto \\
other
\end{tabular} \\
boring, tiring & safani: \\
funny & nemugdi \\
interesting & sebzenke \\
scary, terrible & seuni: \\
difficult & manga \\
unusual & egdeyge \\
few, not numerous & wac'a \\
many & egdi \\
cheap & zas'a
\end{tabular}

\subsection*{26.2. Verbs}

\subsection*{26.2.1. Being}
be
become
live
stay
appear
disappear
get lost
hide
grow into
turn into
bi-
ede-
bagdi-
eki-
ilaktan-
anči-(gde) ede-
pama-
digan-
bagdi-, ju:-
gua(lan)-
26.2.2. Possession and change of possession
\begin{tabular}{ll} 
take & zawa- \\
buy & gada- \\
sell & xudasi- \\
fetch & ge:ne- \\
take with oneself & xebu- \\
take away & ti:- \\
treat & sauli- \\
catch, seize & zawa-, (with claws) cokp'olo- \\
hold & zawasi- \\
store, keep & nekce- \\
keep (animals) & igisi- \\
get & b'a- \\
use & taulagi-
\end{tabular}
bring
take out
steal
find
look for
assemble
gather, collect
borrow
exchange
lose
carry off, make away
give
present
gazi-
ga:gi-zomi-
\(b^{\prime} a\) -
galakta-
gejene-
gegbe-, ga:gi-, tai-
nayda-
kala-
nodo-
xuktu
bu-
suyele-

\subsection*{26.2.3. Motion}
move
go
travel
stop
leave
come
enter
reach
return
run
escape
go down
go out
get up
climb
cross
walk, step
step on
fall
rise
sit down
stand up
lie down
perch
turn
turn over
swing, rock
ugi-
yene-
xuli-
eki-
nene-, gulin-
eme-
i:n-
i:n-, nagda-
emegi-, mudani-
tukä-
susa-
eu-
nu:-
te:gi-
tukti-
(a river) dau-, (a mountain) we:li-
gä:ŋa-
xende-
tigme-
degde-
te:-
ili-
kepte-
do:-
xu:gi-
kumte-
beke-
let go
follow, pursue
catch up
fly
flutter
stamp (dancing)
crawl
sneak
jump
jump at, attack
gallop
swim
dive
move up the stream
float down the stream
drive, turn out
carry on a sledge
get on (a boat, a horse)
ski
moor
row with a paddle
push with a pole
tinda-
'akta-, 'asi-
b'ono-
dieli-
patana-
leuli-
miki-
bujsi-
xetigene-
xokcu-, taumčile-
xukti-
wajan-
(of a fish) nuxan-, (of a man, a duck) xuine-
sol'o-
eje-
elemusi-
(j)uŋkäla-
una-
duktama-
agda-
seude-
geude-
26.2.4. Physical changes and influences (transitive)

\section*{put}
hang
drive out
shake out
scratch
tickle
press
squeeze
drag
pull
carry
throw
drop
hide
hatch
roll up
strike, hit, beat
break
```

nede-
l'o-
igbe-
giu-
negbeli-,(with a scraper) u:-
c'asi-
dine-
si:-
ta\etada-, tana-
ta\etada-, ju:-
neugi-, nexu-
wende-
tugbu:-
zä:-
dine-, t'o-
likpa-
koyko-, paktana-, (with an object) dukte-
xai-, (in two) kayduli-

```
twist out, dislocate
make a hole
bend
touch
push
burn
kick
kill
slaughter
wound
shoot
cut
tear
wrap
hew
chop
sharpen
open
kindle
extinguish
lock
close
cover
smear, paint
tether
untether
tie up
load
glue
mix
stir
knead
warm up
pour
fill
xudugu-, xuduli-
pogdogo-
uwene-, kampi-
wanta-, tuygala-
ana-, zoko-
daga-
baycana-
wa-
magi-
siene-
mäusala-
\(x u a-\), (hair, beard) kige, (into small pieces) zi:-,
(cut out) gi:-, (wood) mine-, (with an axe)
tokto-
(in pieces) tagdi-
kapta-
mo:lo-, xuayni-
capca-, juosi-
sule-
nientile-
saula-
su:si-
jausule-, likpi-
kimpi-
dakpi-
butu-
xeke-
lukte-
xeke-
teu-
dagbu-, (solid) kamnu-, (liquid) ñoŋo-
soli-
sigilie-
xo:-
ugdi-
cudi-, kungede-, (out) mantila-
teи-
26.2.5. Physical states and activities (intransitive)
stand ili-
sit te:-
hang
lie
flow
bend
drawn
squat
fade
get entangled
set (of the sun, moon)
melt
boil
burn, catch fire
freeze
dry
die out (of fire)
rot
grow mouldy
drip
tear off
open
close
swell
break
split
burst
stick
strike (of lightning)
kepte-
ekpene-
neni-
jaysala-, ju:-
čiso-
amnä-
ta-
ene(gi)-
une-
xui-
zegde-
gakti-
ogo-
su:-
ñä:-
xuŋnana-
sabda-
loptogo-
nientile-, kokpigi-
kimpi-
auli-
camna:-, buktaga-
kaktaga-
puse(ge)-
ta:-, lagban-, lakti-
sakina-, talina-
26.2.6. Physiological states and processes
\begin{tabular}{ll} 
sleep & \begin{tabular}{l} 
nua- \\
wake up \\
dream \\
selegi-,
\end{tabular} \\
snögda-
\end{tabular}
\begin{tabular}{|c|c|}
\hline suffocate chew & \begin{tabular}{l}
xajka- \\
sa:si-
\end{tabular} \\
\hline gnaw & čika-, (of a man) kefuge-, (of an animal) \\
\hline & ki(gi)xi- \\
\hline suck & simisi- \\
\hline bite & ikteme- \\
\hline kiss & nugi- \\
\hline swallow & nigme- \\
\hline spit & tu:nde- \\
\hline yawn & zo:ni- \\
\hline blow & pusi- \\
\hline belch & jaktagi- \\
\hline itch & utini- \\
\hline hiccough & juku- \\
\hline breathe, sigh & eikpesi- \\
\hline sneeze & jeini- \\
\hline cough & simpi- \\
\hline poison oneself & jeusele- \\
\hline feel sick & jemei b'a- \\
\hline catch a cold & simpili- \\
\hline be ill & sule- \\
\hline hurt & uni- \\
\hline grow thin & kono- \\
\hline twist & xuduli- \\
\hline get cold & gekti- \\
\hline faint & ukana- \\
\hline sweat & nienesi-- \\
\hline urinate & (of a woman) nuønugu- \\
\hline defecate & amuktasi- \\
\hline ware (of) & mili- \\
\hline start, shudder & olokpono- \\
\hline weep, cry & somo- \\
\hline sob & suaini- \\
\hline water (of eyes) & buli- \\
\hline get mad & gulälali- \\
\hline give birth & (sita) \(b^{\prime} a\) - \\
\hline die & bude- \\
\hline copulate & (of deer) zawa(gdi)-, (of birds) po:- \\
\hline be tired & deu- \\
\hline rest & deumpi- \\
\hline
\end{tabular}

\subsection*{26.2.7. Speaking and producing sounds}
tell
say
talk, speak
repeat
whisper
ask
explain
shout
pray
call, invite
tease
complain
scold
gossip
scream
bark
roar
moan
telupusi-
dian-, gun-
diasi-
alamasi-
sumumesi-
xaundasi-, (for something) gele-
ñumnisi-, alunusi-
xeuti-
(ask for hunting luck) kesi gele-, (bow) xejki-, möule-
geisi-
sunzu-
xapti-
nägda-
keku-
(of a bird of prey) \(k\) 'ägda -, (of a woodpecker) xokono-
go:-
(of a tiger) ŋamna-
xokono-
26.2.8. Perceptions and emotions
hear
listen
see
look
glance
smell
feel, notice
want, agree
laugh
smile
love
like
be glad
be enthusiastic
dislike, hate
be afraid
be frightened
respect
dodgi-
düjsi-
ise-
isesi-
eteri-
nousi-
mede-
ča:la-
iñe-
iñemusi-
aju-
aju-
agda-
juede-
galu-
nele-
bogoli-
xeleni-
be shy
worry
be proud
get bored
feel sorry
get disgusted
be interested
be angry
be surprised
xagza-
bentene-, xuaycule-
biulese-
safani: b'a-, ele-
muñali-
jemei b'a-sebune-
sigdi b'a-, tagda-
xono-
26.2.9. Mental activity
believe
suppose
know
forget
understand
recognise
think
teach
learn
count
ceze-
bodo-
sa:-
oymo-
egze-, b'apta-
tagda-
muisi-
tatusi-
tatusi-
tani-
read
get accustomed
tani-
ta(tu)ti-
be expert at
26.2.10. Labour and everyday life
\begin{tabular}{ll} 
make & wo:- \\
work & etete- \\
build & wo:- \\
wash & au- \\
clean & siki-, aunda- \\
sweep & akpu- \\
peel & (potatoes) kua- , (fish) e:-, sigie- \\
wash oneself & siki- \\
wipe oneself & akpisi- \\
bathe & egbesi- \\
shave & kiga- \\
put on (clothing) & teti- \\
take off & (clothing) asuktagi-, (shoes) luktagi- \\
undress & asukta-
\end{tabular}
boil
cook
roast
smoke
dry (in the air, sun)
process a skin
scrape a skin
skin
brake leather
bark a birch tree
pluck
milk
saw
forge
plane
weave a rope
cut down trees
plant
dig
hunt
fish
set up a trap
take aim
orientate oneself
sew
embroider
write, draw
bring up
take care
marry
match-make
divorce, part
compete
rescue
visit
play
fight
pay
shamanize
xui-
olokto-
kakčisi-
(fish) saymisi-, (in big pieces) seutesi-, (skin)
nusi-
wagisi-
eili-
u:-, cosule-
si:-
kai-
uki-
ofodi-
si:-
züile, la:-
kuge-, tausi-
kua-
tompo-
tugbu-, mo:lo-
uje-
ule-
wakca-, (for fur animals) batu-
sugzäma-, (with a fishing rope) um'asi-, (with
a net) adili-, (with a harpoon) aki-, (at night)
taluna-
tule-
\(z u\) -
zegeme-
uli-
oño-
oño-
igisi-
tafäsi-
(of a woman) mafala-, (of a man) mamasa-
seu-
dekte(gi)-
geinigesi-
uisi-
zima-
gusi-
w'ali-
tama-
mouge-
26.2.11. Modal and aspectual verbs
\begin{tabular}{ll} 
begin & zafanda- \\
finish & mutu- \\
stop & wadi- \\
can & noni- \\
be able & mute- \\
have to & nixe- \\
need & zo:- \\
be going & kokpi- \\
hurry & xeline-
\end{tabular}

\subsection*{26.3. List of ideophones}
bakčam, bokčom
bogdo-bogdo
bokčom-bokčom
bom-bom
bugdam
bugdumce-bugdumce
\(\check{c} a-c \check{c} a\)
čak-čak
čak-čik
c'am
cau(-cau)
cef-cef
cek-cek
cem-cem
čeŋei-čeŋei
cendem
cene-cene
ceze-ceze
čige-lebele
čif(u)-čif(u)
čik-čik, čik-čigi
cili-cili
cim
čindem
ci:nge-ci:nge
cofok-cofok
colo-colo
cumda-cumda
dakcai-dakcai
crooked (from pain)
overflowing
wrinkled
curled
goggling
slippery
clapping wings
till dry
striking fire
till white
noisily, hissing
sharp
in readiness
sharp
ringing
crooked
swinging
flimsy (of hair)
urinating
wet through
tiny
greasy
slightly (bleeding)
thin (in waist)
dangling
the sound of male-deer hoofs
flimsy
torn very much
flapping wings
dandal(-dandal)
dandam, dondom
degbu-degbu
dei-dei
doli-doli
dolo-dolo
efu-efu
elusim
gäga-gäga
gäll
gäydu-gäydu
gar-gar
gete-gete
jala:-jala:
jifu-jifu
\(j i \eta(-j i \eta)\)
jolom
käbak
käf-käf
käl-käl
kär-kär
käu-käu
kedem
kef-kef
kei-kei
kembele:ke-kembele:ke
kemdeli-kemdeli
kerr-kerr, kärkär
kidem(-kidem)
kigdum-kigdum
kiku-kiku
kilum
kitom-kitom
kixi-kixi, kixu-kixu
kofi-kofi
kögbom
koi-koi
kok-kok
kokci-kokci
ko:ŋko-ko:ŋko
kua-kua
kuak-kuak
kuakta-kuakta
standing on end (of hair)
upright, standing on end
standing on end
frightened till one has goose-skin
fast (asleep)
deep (of little holes)
light, fluffy (of buns)
completely
growling much (of a dog)
boiled to pulp
completely
vivid
flimsy (of beard)
very black
not quite well (about health), tiredly
impudently
trough (to gnaw)
ringing
crackling (of trees fallen from the wind)
pale
the sound of shaving
squeaky
spotty
fallen from the wind (of trees)
steep; revenging
waddling
too fat (of a girl)
crunching, cracking
standing on end (of hair, fur)
glossy, with a greasy spot
sound of squeaking
scowling
waddling
gnawing noise, the sound of snow crunch
completely (eaten or drunk)
dead
scratching
hard
very ill
the sound made by a raven
rammed well
snoring
entirely, quite; completely dried out (about a river)
kulu-kulu
kummäm-kummäm
kur-kur, kule-kule
kutum
läbi-läbi
langa-langa
laxu-laxu
läta-läta
lau-lau
lebdeli
lebdu-lebdu
lemde(-lemde)
leŋke-leŋke
liba-liba
limbi-limbi
lina-lina
lokto-lokto, lopto-lopto
lonom-lonom
loxo(-loxo)
lou-lou
lu-lu
lü-lü
lumda-lumda
lümde-lümde
mer-mer
modor-modor
montom-montom
mugdi-mugdi
mur-mur, mul \({ }^{j}-m u l^{j}\)
пағи-пағи
пати-пати
neptem
nigbi-nigbi
nir-nir
ñolon-ñolon
oyom
päktam
pali-pali
p'am
per-per, peli-peli
peso
peu
pice-pice
piek-čik
completely
all, entire (food)
in a hurry
the noise made when falling down
flexible
sticking (of snow to the ski or boots)
noiseless
loudly
very dusty
fluttering
flapping wings
fluffy
staggering (of walking)
dirty, muddy
soaked, weak
sticky
torn up, by jerks
tufted
curly (of a tree)
strong (fog)
blazing (of fire)
wet through
torn very much
wig-wag
to the ground (of cutting trees)
smeared with slobber
around
turning the behind
teethless
thick (of hair)
cozy
not light, flat (of buns)
strongly (of pulling)
easy (to peel off, to scale off)
limping
falling off in shreds (of fur)
sticking easily
very black
till black
numb
the sound made by a drinking female-deer
boiling
into smithereens
knocking
pigdäm
pili-pili
pitu-pitu
počo
poi-poi
pökč
po:lim
pölom, pölom
pösok-pösok
pou-pou
pukcem
pum-pum
punäll, punärr
sagbam
sefe-sefe
sembe(l)-sembe(l)
sembele-sembele
sezeli-sezeli
sezem
sifall
\(\operatorname{sim}(u) \cdot \operatorname{sim}(u)\)
šöktoi
sopcom, sokcom
sü'ak
suar-suar
tafa(ta)k
tafu-tafu
täk-täk, tän-tän
tak-tak
takčike
tayci-tanci
tapči-tapči
tefu-tefu
tegdim-tegdim
tembu-tembu
ten-ten
teu-teu
to:fo
togo-togo
treks-teks
tuømu-tuymu
xam
xayna-xaŋna
inside
slippery
skiing
hissing
flying around (of feathers)
cracking
laughing until one falls
with a hole
the sound of female-deer's hoofs
dark (outside)
till the belly distends (of eating)
sound of shaman tambourine
impression of the smoke from the top of the
house
immediately
rough, horny
like a sieve (holes)
immediately (to come)
shaggy
shaggy
very dusty
noiseless, quietly, silent
rushing
shaggy (of a beard)
grunt
sound of babbling water
plump
through; soft
fast, hard, strong, tight
knocking
cracking
sound of hail falling on iron objects
full
swollen, soft
not tasty, with unpleasant smell
springy
just, exactly, in time, correct, straight
quite, silent
plump
quiet (of water)
squeaking
shaking
champing
dry
\begin{tabular}{|c|c|}
\hline xaulum & entirely flooded \\
\hline xei-xei & quiver, flutter \\
\hline xeku-xeku & hop-hop \\
\hline xuta-xuta & till red \\
\hline wayterl-waŋter, waytel-waytel & bow-legged \\
\hline wekte-wekte & up to the top \\
\hline wejbek-wejbek & waddling \\
\hline zäka-zäka & growling much (of a dog) \\
\hline zän-zäñann & aside (jumping) \\
\hline zаŋа-zaŋa & ill in bed; laid up \\
\hline zenge-zenge & staggering, shaking, swinging \\
\hline zogbom-zogbom & hardly, with difficulty \\
\hline zongo-zongo & naked \\
\hline züle-züle & stripy \\
\hline
\end{tabular}

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\section*{Index}

The index is intended to facilitate a quick search for the most important grammatical categories. Since the grammar in general makes great use of cross-references, one or two references in the index should be sufficient to find an item throughout the grammar. The book has fairly detailed section division reflected in the table of contents. Not to repeat it, in most cases we have only referred here to the major section where the corresponding item can be found.

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[^0]:    $-d A$ additive focus (12.1.1.3), Indefinite pronouns (9.6.1)

[^1]:    te:.g'iek
    su:.s'i:.ni
    s'a.i.d'a:.ni

[^2]:    a. Xengisi-e-k
    stamp.on.snow-PAST-EXPR wo:-ini. make-3SG 'He hid (the meat) stamping on the snow.' (K 179)

