# Wargamay by R.M.W.Dixon

# 1. THE LANGUAGE AND ITS SPEAKERS

#### 1.1 LINGUISTIC TYPE

Wargamay is a fairly typical Australian language with a suffixing, agglutinative structure and free word order. Its most notable characteristic is the fact that transitive verbs can occur in intransitive, as well as in transitive, construction types, mainly to satisfy an 'ergative' syntactic constraint on subordination. In chapter 5 it is suggested that the grammatical changes which have recently taken place in Wargamay could eventually lead to a shift from the present split-ergative morphology to an entirely accusative system.

The consonant inventory consists of four stops (labial, apical, laminal and dorsal), a nasal corresponding to each, one lateral, two rhotics and two semi-vowels. There are three vowels, with a length distinction occurring only in the initial syllable of a word. The dozen or so monosyllabic words all involve a long vowel. Stress goes onto a syllable involving a long vowel if there is one; otherwise onto the first syllable of a disyllabic word but onto the middle syllable of a trisyllabic form.

There are clearly defined classes of nominal (noun and adjective), locational qualifier, time qualifier, pronoun, demonstrative, verb, particle and interjection. Pronouns show singular, dual and plural forms for all three persons (although the 'third person singular' has a wide usage, and may not properly belong in the pronoun class).

There is a system of nine cases for nominals and pronouns, with locational and time qualifiers taking a limited selection from these. There are three systems of case marking for the main syntactic functions of transitive subject (A), transitive object (O) and intransitive subject (S). Nominals and the third person singular pronoun distinguish absolutive (S,O) from ergative (A) case; first and second person non-singular pronouns have separate forms for nominative (S,A) and accusative (O); the remainder -

first and second person singular, third person non-singular, and the interrogative pronoun - have distinct case forms for all three syntactic functions.

Verbs do not show any category of tense; there is instead a rich aspectual-type system. Verbal inflections comprise 'unmarked aspect', perfect, purposive, irrealis, positive imperative, negative imperative and subordinate. There is also a 'continuative' derivational affix, and a comitative suffix that derives transitive from intransitive stems. In addition, transitive and intransitive verbal stems can be derived from nominal and from some interrogative and local roots.

Almost every verbal suffix has two allomorphs - one used on verbs in intransitive constructions with the other being employed on verbs in transitive constructions. Verbal stems fall into two classes: 'intransitive' verbs occur only in intransitive constructions whereas 'transitive' roots can occur in transitive or in intransitive constructions (taking the appropriate inflectional allomorphs).

The scanty material available for Wargamay does not yield overmuch syntactic information. There are, however, well defined complement constructions and also relative clauses. A great deal of the work that is done by syntactic derivation in other Australian languages is achieved in Wargamay by careful employment of transitive verbs in either transitive or intransitive constructions; the kinds of correspondence between these two types of construction are important, both synchronically and diachronically.

Sentence modification is achieved through a set of non-inflecting particles ('not', 'perhaps', 'only' etc). It appears that polar questions can be shown only by a marked intonation pattern.

#### 1.2 DIALECTS

What I refer to as the 'Wargamay language' appears to have had three distinct dialects (shown on the map):

(1) The people living in the rich forest country along the lower reaches of the Herbert River - from just west of the present town of Ingham, through Hawkins Creek, Long Pocket, Herbert Vale and Niagara Vale to Yamanic Creek and the Herbert Gorge - were called Wargamaygan, and referred to their language as Wargamay.

This group had territory on both sides of the river extending just a few miles from the banks; thus Wallaman Falls and the township of Stone River, on the south side, are said to have been included within Wargamaygan territory. gu:n was the name given to the Herbert River at the gorge and just downstream from it; and speakers of Wargamay can also describe themselves as gu:nbara (-bara 'belonging to' is a productive derivational affix - see 3.1.3). (It is not known for certain whether gu:nbara was synonymous with Wargamaygan, or whether it described just one local group of the tribe speaking Wargamay.)

The origin of the name 'Wargamay' is not known. There

may be something in William Craig's suggestion, made in 1898 (see 1.6 below) that the last syllable of 'Wargamay', and of 'Giramay' (which is spoken immediately to the north), is related to maya, the word for 'no' in these two dialects. Certainly the other dialects of the Wargamay language are directly named by their word for 'no'.

(2) The people living around the mouth of the Herbert River (including the present towns of Halifax and Bemerside) called their language Biyay (which was their word for 'no') and could refer to themselves as Biyaygiri, involving the productive derivational affix -giri 'with' (see 3.1.3). The gu:nbara would refer to speakers of Biyay as gupinbara using the common noun gupin 'the coast, people/things from the coast'.

Biyay, from the mouth of the Herbert River, and Wargamay, spoken up river from it, are mutually intelligible dialects. They have about 90% common vocabulary and very similar grammars - morphological differences include the form of the 'continuative' verbal suffix, and the paradigm of the single irregular verb gi:(gi)- 'to sit' (differences of verbal morphology are detailed in 3.5.3; lexical differences are fully catalogued in the Vocabulary by semantic fields).

(3) The people living on Hinchinbrook Island and the adjacent mainland (south from the present town of Cardwell), a country of mountainous jungle and flat mangrove swamps, also appear to have spoken a dialect referred to as Biyay (and to have been themselves called Biyaygiri). Tindale quotes a tribal name 'Bandjin'; this is the common noun bandin 'sea water', and thus on a par with names du:nbara and qupinbara.

Hinchinbrook Biyay did show some lexical differences from Halifax Biyay, but more than 90% of their vocabularies are identical. Since no speakers survive for this dialect, and the only information is from a few short word lists of fifty and more years ago, no details of the grammar are known. However, from informants' comments it is likely that the grammar would have been very close to that of the other two dialects.

These three dialects are recognised, by their speakers and by those of neighbouring languages, to form a tight-knit group - to be, effectively, dialects of a single language. Indeed, the name 'Wargamay' is commonly used to refer to this language. Thus Nora Boyd, the informant for the Halifax dialect, would sometimes say that she spoke Wargamay but at other times (especially if emphasising some difference from the dialect spoken upstream) might specify it more exactly as Biyay. Similarly, speakers of Giramay would talk of Wargamay being spoken over the whole Cardwell/Herbert Vale/Halifax area, but would mention that the variety spoken at Cardwell itself was called Biyay.

We are thus taking over the usage of speakers in referring to (1-3) as the Wargamay dialect, the Halifax Biyay dialect, and the Hinchinbrook Biyay dialect of the Wargamay language. To avoid confusion Wargamay is used below for

the language name, with initial letters normally being employed to refer to dialects:

W - (1) Wargamay dialect

B - (2) Halifax Biyay dialect

H - (3) Hinchinbrook Biyay dialect

# 1.3 SURROUNDING LANGUAGES

To the north of Wargamay is Giramay - the most southerly dialect of the large 'Dyirbal language' (see Dixon 1972) - spoken by the Giramaygan tribe. Giramay and Wargamay have around 48% common vocabulary, squarely within the 'equilibrium figures' predicted for languages that have been in contiguity for a substantial period (Dixon 1972:331-7,1980a:254-60); a comparison of verb forms shows only 32% being completely or almost completely identical (differing only as regards vowel length, etc) suggesting that the languages may not be closely genetically related.

To the south-east is Nyawaygi which shows about 45% common vocabulary with Wargamay (the figure is about the same for verbs and for non-verbs). Again, there is no evidence for strong genetic connection.

Inland from Wargamay, to the west and south-west, is Waruŋu, the northmost member of the closely related 'Maric' group of languages that extends as far south as the New South Wales border. There is less lexical overlap here - the common vocabulary stands at 35% and a verb count shows 29%. (The Waruŋu data comes from Alf Palmer who also knows Dyirbal and Wargamay and tends to mix these languages together. As a result, the figures quoted for Wargamay-Waruŋu common vocabulary may be somewhat higher than they should be.)

When one turns to grammar there are again no overwhelming similarities in any one direction. Warunu is fairly different, but both Giramay and Nyawaygi show interesting points of congruence. Giramay, Wargamay and Nyawaygi do, in fact, have virtually identical paradigms for first and second person pronouns. Wargamay resembles Giramay in having only two verbal conjugations, in having separate inflections for dative and genitive, and in having no monosyllabic verb roots. It resembles Nyawaygi in having contrastive vowel length, in the form of some verbal affixes, and in the form of the interrogative pronoun.

In sum, although Wargamay shows strong similarities to the north (Giramay) and to the south (Nyawaygi) the evidence does not permit us to put forward a close genetic connection in either direction. (Dyirbal and Nyawaygi differ so markedly that there is no chance of connecting all three languages in terms of some 'low node' on the Australian language tree.)

# 1.4 SECTIONS

Some information about the life and beliefs of the Wargamaygan is included in Lumholtz (1887, 1888, 1889, 1921), and in Craig's letters to A.W.Howitt (see 1.5, 1.6).

Each member of the tribe belonged to one of the four sections. These interrelated as follows:

a man who is:	must marry a woman who is	their children being:
wungu	gurgurayngan	gurgila/gurgilayŋgan
guſguľu	wungurayngan	wuguru/wugurayŋgan
gurgila	wudurayngan	wungu/wungurayŋgan
wuduru	gurgilayngan	gungunu/gungunayngan

Note that the feminine forms involve the addition of -rayngan to a disyllabic masculine form and -ayngan to a trisyllabic form (with the -a- replacing the final -u of a masculine form); this is probably related to the feminine suffix -gan which occurs in a number of eastern languages (see Dixon 1972:12-13, 31, 319).

Lumholtz (1889:199) mentioned these terms in an interesting paragraph: 'The black man whom I had persuaded to go with me was related to one of my men, Yanki. He was Yanki's Otero. In the tribes the words otero, gorgero, gorilla, gorgorilla are found, which designate various kinds of relations. Sometimes a man would be called otero or gorgero without the addition of any other name, and still everyone knew who was meant. There are similar words to designate female relations, in which case the termination ingan is substituted for the final o or a, thus oteringan, gorgeringan, etc.' Lumholtz has clearly transcribed two of the section names reasonably well, but has used gorilla and gorgorilla where /gurgila/ and /wungu/ would be expected (the Dyirbal equivalent of wungu is gigungara, which is no more recognisable here). See also Birtles (1976:15).

In his correspondence with Howitt, William Craig transcribed the section names quite accurately: his letter of 2nd June 1898 give the masculine and feminine forms as woon-goo/woon-goo-ringan, goorgoo-roo/goor-goo-ringan, goor-gil-ah/goor-gil-ingan, wooth-oo-roo/wooth-oo-ringan. John Murray (1886) gives identical section names for Hinchinbrook Biyay: woongo, kookooroo, koorkeela, wooitcheroo. Note that a corresponding four-section system is employed by the Dyirbalnan (Dixon 1972:27-31) and in fact over much of south-eastern Queensland (Murray 1886 states equivalences between Hinchinbrook and Wide Bay section names).

A little information has been obtained in the totems associated with each section. Speakers emphasised that there were many more totems, which they could not recall:

```
wungu - gargay 'small hawk'
gurguru - gundunu 'thunderstorm'; gurungul 'small hawk'
(the latter totem was given by Craig, but is not
remembered by present-day informants).
gurgila - 'eel'; yungubala 'black python'; yamani 'rainbow';
wada 'crow'
```

wuduru - walguwuru 'brown snake'; guridala 'eagle hawk'.

#### 1.5 CONTACT HISTORY

The first Europeans to visit Wargamay territory were Captain King and the crew of the survey cutter <code>Mermaid</code> who anchored off Goold Island – five miles north of Hinchinbrook – from 19th to 21st June 1819. King (1827:199-203) records how he traded fishing hooks and lines for Biyaygiri baskets and turtle pegs, and describes the canoes, forms of bodily decoration, etc.

Goold Island became a favoured place of call for water. The first vocabulary - of some fifteen words - was procured by Mr Evans, master of Captain Blackwood's survey ship Fly, in late May 1843 (see Jukes 1847, I:93-4).

A settlement was established at Cardwell in January 1864. The inevitable clashes followed - Aborigines felt they had a right to spear European cattle feeding on their tribal lands and the settlers were so incensed by this that they took human life in return, whereupon the Aborigines retaliated by taking white lives. Dorothy Jones' Cardwell Shire Story (1961) provides an excellent history of settlement in the area, paying some attention to the affect it had on Aboriginal society.

On 9th March 1872 a party of police and troopers led by Sub-Inspector Robert Johnstone beat a cordon across Hinchinbrook Island and cornered almost all the tribe on a point. According to Jones' (1961:170-1) interview with an early settler 'those who were not shot on land were shot as they attempted to swim away'; she remarks that what was reported in the paper as the killing of 'a few unfortunates' amounted to 'almost total massacre of the tribe'. The slaughter was purportedly in retaliation for an attack by Aborigines on Europeans shipwrecked from the brig Maria (Jones 1961:164-70).

This massacre did attract national publicity. Pastoral Register, a Sydney paper, mentioned that 'a writer in the Central Australasian, who proposes to give a narrative of the expedition to the wreck of the ill-fated "Maria" says:- "We brought off with us Mr Johnston, Sub-inspector of Native Police; and from hearing his conversation with some of our fellows, I got my first insight into the atrocious state of public opinion in North Queensland with reference to the blacks. He spoke of killing whole camps - not merely men, but girls and piccanninies - with the greatest coolness". The matter was brought up in the Queensland Parliament with the Colonial Secretary stoutly denying that the government 'pursued a policy of extermination in dealing with the blacks'; rather 'the policy of the Government towards the blacks had been for the repression of crime' (Queensland Parliamentary Debates, 5th Series, 1871, pp 323-4). Nowhere in the Colonial Secretary's statement, or in the cables he quoted from Johnstone, was there any denial concerning the Hinchinbrook slaughter.

Even after this the white attitude appears not to have softened and in the note by M.Armstrong, Esq., Inspector of

Police, on the Aborigines of 'Hinchinbrook Island and the Mainland Adjacent' in Curr's Australian Race (1886, II:418-21) it is said that 'the tribe wore no clothes in their original state, but those who are now (in 1880) allowed to come to Cardwell do so' (my italics). Indeed, Cardwell continues to this day to be a town with an intransigent attitude towards Aborigines. On commencing fieldwork in October 1963 I enquired of the Cardwell policeman (who was, under the laws in force then, local Protector of Aborigines) whether there might be anyone left with language competence and received the answer 'there are no niggers in this town'.

Murder was only one of the dangers to which the Biyay-giri were exposed. In 1882 a Mr Cunningham was sent by the American showman Barnum to bring back some Australian Aborigines for exhibition. He gathered five men, two women and one baby from Hinchinbrook Island and from Palm Island (twenty miles to the south-east). There was an incident in Melbourne when one Aborigine, Tambo, is said to have killed a policeman who complained about his lack of clothing. But, despite protestations in Parliament and in the press, the party left for America (one Aborigine dying en route); they were then 'exhibited' in London, Brussels, Cologne, Berlin and Paris (see Houzé and Jacques 1884:97-9). There is no record of whether they were ever returned to their tribal lands.

The Wargamaygan, up on the Herbert River, were less affected by European and Chinese contact. They had sufficient numbers and freedom to continue with a recognisable tribal life until the end of the century. The Norwegian zoologist Carl Lumholtz lived among them, by an abandoned cattle station at Herbert Vale, from August 1882 until July Lumholtz's classic Among Cannibals (1889, see also 1887, 1888, 1921), has a great many observations on the life and customs of the tribe. He said that their 'culture - if indeed they can be said to have any culture whatever - must be characterised as the lowest to be found among the whole genus homo sapiens' (viii). But Lumholtz himself must be assessed as an unobservant and uninsightful anthropological observer. For instance, he refers (201) to Yamina, a monster which lived in a certain water hole and 'of which the natives stood in mortal dread... A gun would be of no use, they said, for the monster was invulnerable'. This was almost certainly the rainbow-serpent, yamani - in this and other instances Lumholtz made no effort to delve below the surface of his informants' comments, and plainly did not realise they had such things as myths. However, despite the shallowness of Lumholtz's cultural understanding and insight (and his failure to learn to speak the language) the information he gives on the break-up of tribal life, in the face of European contact, is outstanding.

William Craig had been running a cattle station at Niagara Vale - a little higher up the Herbert River than Lumholtz's base at Herbert Vale - for some years before, in 1898, he opened up a correspondence with the anthropologist A.W.Howitt in Victoria (Craig mentions that he had written several articles on Aborigines for the Queenslander). The letters to Howitt give the section system, marriage laws,

totems and some other cultural information; they appear mostly to deal with the Wargamaygan although there may be some intrusions from Giramaygan (when quoting numbers, for instance, in the letter of 14th April 1898, he gives Giramay bulari 'two' rather than Wargamay yaga). (These letters are in the A.W.Howitt papers, National Museum of Victoria.)

Craig was concerned with the welfare of the Wargamaygan and on 26th January 1898 had written to Parry-Okeden, the Commissioner of Police in Brisbane:

'In the interests of the aboriginals here I take the liberty of writing to you. There are about 80 here who have not yet got down the river and mixed with the Chinese and colored races or learnt the opium habit to any great extent. While I have been here I have found horses and packed the Govt blankets allowed them and always permitted them to camp on my run and hunt through my cattle and gave them medicines as far as I was able. I also killed any waster cattle I had for them.

'As the ticks killed nearly all my cattle, and I am about to leave here, seeing that the Govt intend to do something for the amelioration of the aborigines I think it would not be amiss in the interests of those here to supply you with some information about them, so that if you think fit you may be able to do something for them, as other station owners do not care to have them hunt and camp about their runs or homesteads and they will surely drift down among the Chinese and Malays where the opium charcoal and disease will soon finish them.

'I think there is a splendid place here for the Govt to make a reserve in which they could gather most of the blacks from around the lower Herbert where they are mixed with the alien colored races and dying from opium charcoal and disease. This country has become useless for grazing on account of the heavy undergrowth but the blacks get a good deal of food from the Yu-boo-loo tree nuts (ground to flour) and the Wong-ah or Chestnut. [Craig is probably referring to gubula, Podocarpus amarus, and waŋa, Castanospermum australe]. From here over to Cardwell in a straight line about 20 miles there is a range covered with dense coast scrubs in which this food with scrub turkeys eggs etc. is plentiful, and Sea View Range on the other side shuts the Herbert into a gorge and is good hunting and food ground also, while if any agriculture is desired there are enough isolated rich flats that will grow anything tropical...'

Craig's letter was forwarded to the Inspector of Police at Townsville, who asked Constable Holmes of Cardwell to Holmes confirmed that 'the particular tribe of blacks spoken of by Mr Craig are rather a superior class of the general run of blacks in the district the greater proportion of them being free from disease and opium charcoal is a thing almost unknown to them. The Constable has seen these blacks in numbers of from 50 to 60 on the Bora ground about 14 miles to the North West of Cardwell on Saltwater Not only does the wild fruit that Mr Craig mentions grow here but a great many others.' Holmes was not, however, in favour of making a reserve at the location suggested by Craig because it was hard to reach from Cardwell (the very reason Craig thought it would be suitable, this inaccessibility serving as a protection against the temptations available on the coast). Craig's letter was acknowledged from Brisbane with the assurance that 'the subject is receiving attention'. (Craig's and Holmes's letters are

held in the Archives Section of the Public Library of Queensland.) But nothing positive was ever done. In fact those Aborigines who did not succumb to the Chinaman's opium stood a good chance of being hunted and shot by the 'native police' (cf Kennedy 1902); the only text obtained from Lambert Cocky (see 1.7) in 1972 told of attacks and massacres by this force around the turn of the century.

Still, those Aborigines who did survive were able to live a fairly free life. In 1896 E.J.Banfield went to live on Dunk Island - twenty miles north of Hinchinbrook - and his four volumes of diary and reminiscence (Banfield 1908, 1911, 1918, 1925) contain a good deal of information about Aborigines and their habits, with Aboriginal names for a fair number of plants, animals, etc. In Confessions of  $\alpha$ Beachcomber (1908:8) Banfield stated that only four of the original 'Dunk tribe' were alive when he settled there, and maintained that their language was nearer to that of Hinchinbrook than to the mainland. Banfield's narrative freely mixes words from Biyay and from dialects of Dyirbal, but in one passage (1908:292-3) he does focus on language and gives parallel 18-word vocabularies from two Aborigines, Tom and 'Tom's totemic title, "Kitalbarra", is derived from a splinter of a rock off an islet to the south-east of Dunk "Oongle-bi", Nelly's affinity, is a rock on the summit of a hill on the mainland, not far from her birth-Whereas the words from Nelly are recognisable as a dialect of Dyirbal, those given by Tom appear to be Hinchinbrook Biyay. This may be taken as evidence that Dunk Island was in fact part of Biyaygiri territory.

The period of freedom ended in 1914 when most of the surviving Aborigines were rounded up and taken, some in chains, to the Hull River Mission - Banfield expressed regret at what he considered an unnecessary step in Last Leaves from Dunk Island (1925). When the settlement at Hull River was destroyed by a cyclone, in 1918, its inmates were transferred to Palm Island.

It is worth noting that all my informants for Wargamay and Biyay would have been children at the time William Craig left Niagara Vale. No one born in the following generations learnt anything of the language.

#### 1.6 PREVIOUS WORK ON THE LANGUAGE

There are several early vocabularies of the Biyay dialects:

(1) 15 words collected by Mr Evans of HMS Fly, May 1843 (Jukes 1847,I:93-4). All but two of these are clearly recognisable as H.

(2) Houzé and Jacques (1884) give about 200 words from 'Île D'Hinchinbrook', taken from 'Bob' and 'Billy'. In most cases only one item is quoted but where there are two variants that given by Billy appears to be Hinchinbrook Biyay whereas that from Bob is Halifax Biyay. There are some general comments on the language and its pronunciation; the quality of transcription is fair.

- (3) Edward Curr in his compendium The Australian Race (1886, II:418-21) included under 'Hinchinbrook Island and the Mainland Adjacent' a few cultural notes by M. Armstrong, Esq. Inspector of Police, and a vocabulary of about 130 words (together with details of sections) by John Murray. Robert Johnstone wrote of Murray that he was a 'keen observer, a first class bushman with a thorough understanding of the blacks, [and that he] spoke fluently the languages of the tribes of Rockingham Bay, Wide Bay, Rockhampton, the Murray River and the Edward River of N.S.W.' (Jones 1961: 106, quoting from 'Spinifex and Wattle', a series of articles by Johnstone in The Queenslander, 1903-4). Murray's vocabulary is predominantly of H (although there may be a few Giramay words mixed in - both biyay 'no' and maya 'no' appear, for instance) and the standard of transscription is again fair.
- (4) Banfield's (1908:292-3) 18-word vocabulary gathered from 'Tom' is of H, and is rather well transcribed. The majority of the commonest nouns and verbs Banfield quotes throughout his narratives belong to Dyiru or other dialects of Dyirbal, showing that he had more contact with speakers of this language than with the Biyaygiri (indeed there were at the time many more Dyirbal speakers around than there were Biyaygiri).
- (5) On 28th October 1938 N.B.Tindale recorded on Palm Island a vocabulary of about 80 words that was headed 'Bandjin (Biyay)'. This was taken down from Jimmy Banfield, whom I met on Palm Island in 1964, being told that he was the last of the Hinchinbrook tribe; Banfield told me that he knew no Biyay and this was confirmed by other informants. It is thus not surprising that the vocabulary Banfield gave Tindale is almost straight Dyirbal with just a handful of Biyay words interspersed (kai 'ground', kakakau 'walk' and one or two more). It is worth noting that for 'no' Tindale first wrote down imba (the Dyirbal word is yimba) but then crossed it out and inserted bijai with the parenthetic comment 'this is the word which defines their language'.
- (6) William Craig recorded a few Biyay words in a letter to Howitt see (10) below.
- (7) Archibald Meston's papers include seven words from Cardwell on page 6 of his notebook Folio 1 (in the Oxley Library, Brisbane); most of them are forms that occur in both Giramay and Wargamay.

The material gathered on the W dialect comprises: (8) Lumholtz included a page of grammatical comments on the language in Among Cannibals (1889:308-9). About 120 words (with just a few Biyay and Giramay intrusions) are scattered throughout the text and also gathered together in a vocabulary at the end (312-3). Lumholtz's ear was not outstanding - thus he spent a great deal of his time trying to obtain a specimen of the tree-climbing kangaroo (Dendrolagus lumholtzii) called in Wargamay bulngari, but Lumholtz consistently called it 'Boongary', failing for a year to hear the -I-. But on the whole Lumholtz's language material is fair and useful. In view of the importance of Lumholtz's book a full commentary on his language material

is included in an Appendix at the end of this grammar.

- (9) Kendal Broadbent noted about a dozen Aboriginal names for plants and animals in his diary of a trip collecting for the Queensland Museum in the Cardwell district,  $188\bar{6}$ (the diary is now in the Queensland Museum Library). Some words are close to some of those obtained by Lumholtz; others appear to be Wargamay or Giramay.
- (10) In a letter to A.W. Howitt dated 24th July 1898 William Craig correctly identified the 'tribes' of the region as Warga-mi, Kirra-mi, War-oong-oo, Bei and Nowa-gee. He did not like the term 'tribe', saying that they were more like Scottish clans. Craig took 'language' to be a defining characteristic of this grouping (cf Dixon 1976a), thus:

'I give below the groups or clans with their name; it appears to me it is connected with language more than anything else as it does not bind them for agression or tribal organisation nor prevent intermarrying... I give you the five groups close here and a few of their commonest words, so you can see what you can make out of it.

Sun Moon FireWater No Group Where Currie; (no) Wiibara <sup>l</sup>Wagoon Ull-oo Mia I-ee War-ga-mi<sup>a</sup> Woo-ee Ballan<del>oo</del> minya yan-ee (no) Kirra-mi<sup>a</sup> Currie Ballanoo You-goo Com-oo Mia In-yan wan-ja yan-oo War-oong-oo Yuln-gun Ballanoo Boor-ee Com-oo Nowa Yae-oo wan-ja yan-ulgoo (no) Bei Woo-ee Ballan Mingoo Com-oo Be-i Iba wan-ja moom-a-goo  $^{
m (MO)}_{
m Nowa-gee}$  I cannot give you this just now but Nowa means No (no)

'I give you here some words that I have got from a boy who has been on the Johnstone to the N.of Cardwell and says he knows their talk Uth-an -(yes) Sun Moon FireWater No (yes) (where) Uth-an Currie Cug-a-lum Boan-ee Bun-a Imba Uth-a min-ya-goo'

Most of the words in the Wargamay and Biyay lines are quite recognisable. 'Woo-ee' indicates wi: 'sun' (gari occurs only in Dyirbal), 'moon' is in fact balanu in W and balan in B, 'fire' is wagun, 'water' is nalu in W and gamu in H, 'no' is maya in W and biyay in B, 'yes' is in fact nayi in both dialects, 'where' is based on the root wanga- (mina is 'what') and 'go' should be gaga- (yani is a Warunu form). 'Wiiban may relate to wi: 'sun' and the derivational affix -bara 'belonging to' (3.1.3) but mingoo and moom-a-goo from the Biyay lines are not recognisable. The inclusion of gamu for 'water' indicates that Craig may have taken the Biyay line from a member of the Hinchinbrook group (Halifax Biyay has nalu, like W). The Giramay and Warugu lines have a similar sprinkling of errors and the last line (from the Johnstone River) appears to be a northerly dialect of Dyirbal, probably Ngajan (Craig's 'Uth-an').

(11) On 3rd November 1938 N.B. Tindale collected a Wargamay vocabulary on Palm Island. This is, like all Tindale's material, well transcribed and is clearly identifiable as

W, with a few B intrusions.

However, Tindale's placement of Wargamay and Nyawaygi on his tribal maps (1940 and 1974) is not correct. attributes the Bandjin/Biyay tribe solely to Hinchinbrook Island (presumably on Jimmy Banfield's testimony); in fact it occupied the adjacent mainland (attributed by Tindale to Giramay) and the land around the mouth of the Herbert River. In the case of Wargamay, Tindale describes the territory as 'coast at Halifax Bay, inland to slope of Coast Range; north to Ingham and Lucinda Point; south to Black River twenty miles north of Townsville (seven hordes are mentioned in the literature)'. The literature cited by Tindale is the entry by Cassady and Johnstone in Curr (1886, II:424-31); but this in fact refers to the Nyawaygi tribe (the name is not given but comparison of vocabularies - for instance, those gathered by Tindale himself in 1938 establishes this quite conclusively). In fact, the territory Tindale ascribes to Wargamay was occupied partly by Biyay but largely by Nyawaygi, a coastal people who Tindale mistakenly attributes to an inland tract. As already noted, the Wargamaygan occupied territory on both sides of the Herbert River - Tindale allocates that on the north bank to Giramay and the southerly portion to Nyawaygi.

(12) About 1961 La Mont West Jnr worked at Palm Island with Jimmy Johnson (Johnson died a few months afterwards). West lent me his notes in 1964. They involve 1300 numbered items (mostly single words), which appear to have been dictated almost randomly by Johnson, with West making no attempt to cross-check or systematise the data he was writing down, or to gain any understanding of the language. Glosses are often misleading and the transcription is phonetically poor - for instance, item 1032 is given as 'wuripa bulumbi wa·kunka - take stick away and chuck in bush'; this is almost certainly (following West's use of voiceless stop symbols) wurpi pucmbi waku·nta'big-ABS throw-IMP tree-LOC'. In most cases West missed the important, phonologically-distinctive vowel length in initial syllables.

West made a tape-recording of songs, pronouns and a few somewhat halting texts; the tape is deposited with the Australian Institute of Aboriginal Studies. The quality of recording is very poor, and when I played it to Alf Palmer, in 1967, he professed himself unable to make it out. However, it was possible to check with Palmer and with other informants some of the words and grammatical forms, from West's transcriptions of the tape and from my listening to it.

Johnson undoubtedly had a fair command of Wargamay and was said to be an excellent racconteur. But it is clear from the material (corroborated by other informants) that he tended to mix Giramay in with Wargamay. This, together with the poor quality of the Johnson material, severely limits its value. I did use it during my own field work to suggest forms, but always required careful corroboration from a Wargamay informant (see 1.7).

(13) In 1970 Peter Sutton contacted John Tooth, at Minnamoolka Station, and recorded a few minutes Wargamay on tape; no written notes were taken. Sutton made the tape available to me and suggested Tooth as a potentially useful

and reliable informant.

- (14) About 1974 Tony Beale recorded a few score words from Nora Boyd, at Ayr, and passed these on to me. (I had previously contacted Mrs Boyd, but Beale discovered her whereabouts quite independently).
- (15) Tasaku Tsunoda worked intensively at Palm Island with Alf Palmer (born about 1890) on what was described in 1971 as Kutjal and in 1972 as Warunu see Tsunoda's MA thesis (1974). The material Palmer gave on Warunu is splattered with Dyirbal words and morphemes and ideally requires checking with another speaker of Warunu. Although Palmer's parents were Warunu, he has lived most of his life in Wargamay- and Dyirbal-speaking districts (and, for the last thirty or so years, Dyirbal has been the only one of these languages to be actively spoken in everyday affairs).

In September 1974 Tsunoda elicited some Wargamay material from Palmer (as I had done ten years before - see 1.7), making this available to me. A few months later Palmer told Peter Sutton that he had given Tsunoda some Wargamay, but was afraid that a bit of Warunu had got muddled in! This material does in fact contain intrusions from Warunu and from Dyirbal; it also mixes together the distinct W and B dialects of Wargamay (for instance, Palmer uses both the -bali and -ni varieties of the continuative verbal suffix - 3.5.3).

Most tribes in this area have an extensive 'avoidance vocabulary' used in the presence of (amongst others) a parent-in-law of the opposite sex. The Dyirbal and Yidin term for this speech-style is Dyalnuy; it is often referred to in English as 'mother-in-law language'. I asked Palmer in 1964 concerning a Wargamay avoidance style and he affirmed there was one, but he could only remember three words (quoted in 1.7 below). However, during 1971-4 Palmer would, apparently randomly, tell Tsunoda that a certain Warunu or Wargamay item was 'Dyalnuy' (especially when, say, two words had been given for the same thing). None of these later Dyalnuy labellings has any veracity; almost all are straightforward Warunu, Wargamay or Dyirbal items.

# 1.7 SOURCES FOR THIS STUDY

I did some peripheral work on Wargamay in 1964 and 1967 (whilst primarily concerned with Dyirbal) gathering material from Alf Palmer (dimbilgay) at Palm Island. A comparative vocabulary of some 500 items was elicited in Wargamay, Warugu, Dyirbal and Giramay and some basic grammatical paradigms in Wargamay were also obtained. In addition, Palmer spoke Warugu and Wargamay material of his own choosing (words and simple sentences) onto tapes after I left the field, under the auspices of Jack Doolan of Palm Island. He consistently declined to give any textual material. At this time Palmer volunteered just three words in the Dyalguy 'avoidance style' of Wargamay - biggubara 'foot', guygara 'water' and mandila 'hand'; the correspondent forms in the unmarked 'everyday style' of Wargamay are bingap, galu and mala respectively. Note though that mandi

is the form for 'hand' in the H dialect (attested in sources (1) - (4) of 1.6). Palmer did not appear very certain of these items, and it was not possible to obtain confirmation from any other informants.

Intensive study of the language ran from 1972 to 1980 and involved work with John Tooth and Lambert Cocky (W dialect) and Nora Boyd (B dialect). Each of these informants was less liable to muddle in material from other languages than were Jimmy Johnson (1.6) and Alf Palmer but it was still necessary to exercise extreme care in separating out Wargamay from the Giramay dialect of Dyirbal. Every putative Wargamay lexical item - given by Alf Palmer and/or Jimmy Johnson - was checked with at least one, and preferably two or all three, of Tooth, Cocky and Boyd. Particular care was taken in checking items which appeared to coincide in Wargamay and Giramay. The grammar was also carefully sifted to exclude extraneous elements.

At first Giramay was used as a means of elicitation. But since Giramay forms and constructions are often close to - but not identical with - Wargamay this sometimes tended to confuse speakers; they would continue in Giramay, or say that Wargamay was 'the same' when in fact there were slight differences. Because of this, most of the later elicitation was done using just Wargamay and English (in which all of the informants were quite fluent).

John Tooth's name is duraminbal, literally 'shoot the cloud' (this relates to the thunderstorm, a totem of his section, guggugu). Born at Abergowrie of a Giramay mother and Malay father, he was brought up by his Wargamay stepfather at Lannercost and Stone River; Tooth speaks the W dialect but is also quite at home in Giramay. He remembers as a boy walking with his tribe to a corroboree near Innisfail; to another at the Argentine Gold Mine, about 40 miles inland from Townsville; and to a third at the tin mine on the Charters Towers/Lynd road. Tooth has worked most of his life at cattle stations on the tablelands north of the Herbert and was contacted in 1972, 1973, 1974 and 1977 at Glen Ruth (formerly Cashmere). His knowledge of Wargamay was rather rusty but this was compensated by his intelligence and application. It was possible to record from him two very short texts, to obtain or check the best part of a thousand lexical items and to elicit on a wide range of grammatical points. John Tooth has a fine linguistic sense; if I made mistakes in trying to construct Wargamay sentences he would reject them because 'it doesn't seem to rhyme', his way of saying they were ungrammatical.

The fact that John Tooth also speaks Giramay (and of course there have been more people to speak to in Giramay than in Wargamay, over the last few decades) affects his Wargamay a little. Tooth tends to use the irrealis inflection -mamostly in the 'lest' sense, probably because the Giramay verbal inflection -bila is restricted to a 'lest' sense; he would use -mawith a simple future sense sometimes but less often than would Cocky (or Boyd). Tooth would also use transitive verbs in intransitive constructions a little less often than Cocky or Boyd; in Giramay transitive verbs can only occur in transitive constructions.

Lambert Cocky (or Atkinson) is named burayngubagu and belongs to the wuduru section. One parent was Wargamaygan and and one Biyaygiri; thus although Cocky's dialect is predominantly W there is some B mixed in (but scarcely any Giramay). Like John Tooth, he was probably born a few years before 1900. Cocky was interviewed in 1972 and 1973 at Dan Sheahan's cane farm, on the bank of the Herbert River, just east of Abergowrie (in original Wargamaygan territory) and in 1974, 1975, 1977 and 1980 at the Eventide Home, Charters Towers. Cocky may have been more fluent in Wargamay than John Tooth but was at first a difficult informant, not inviting direct questions. Despite this, it was possible to check several hundred lexical items with him and to clarify a number of grammatical points; he also recorded one short text (see 1.5).

Nora Boyd, named at birth girgul, later called nunucu, was the only source for the Halifax Biyay dialect. She was interviewed at Ayr in 1973 and 1974 and at Halifax in 1975. Nora Boyd was reported to be in her nineties (she had a son in an old folks' home, and went to visit him periodically) but was as mentally agile as John Tooth or Lambert Cocky, each of whom was a dozen years her junior. Mrs Boyd spoke pure Biyay and although she could sometimes recognise proferred items to be in the W dialect or in Giramay she would never mix these into her own speech. Nora Boyd did not give texts but was unfailingly courteous in volunteering and checking all manner of lexical and grammatical points. Only a limited amount of work was possible with Nora Boyd, before her death in late 1976; it was not possible to check a number of grammatical points, or whether many W lexemes also occurred in B.

Arthur Wild, named gububagi, (born at Abergowrie) was interviewed near Halifax in 1972 and 1973 (he died in 1974). Although most helpful, he was too old and semi-senile to yield any information that had not already been obtained from Tooth and Cocky.

# 2. PHONOLOGY

This description is in part conceived of as a section of an areal study of the languages in the Cairns/Townsville region. These are, from north to south, Yidin (Dixon 1977a); Dyirbal with major dialects Ngagan, Mamu, Dyirbal and Giramay (Dixon 1972); Wargamay with dialects Biyay and Wargamay; and Nyawaygi.

Yidin, Dyirbal and Wargamay have an identical set of sixteen segmental phonemes. In Nyawaygi original \*d has changed to r or [ except within a consonant cluster; in modern Nyawaygi [d] and [r] can be grouped together as allophones of a single phoneme, giving an inventory of just fifteen phonemes.

The four languages differ in the occurrence of vowel length. Length occurs only in initial syllables in Nyawaygi and Wargamay, only in non-initial syllables in Yidin, and in any syllable in the northerly dialects of Dyirbal.

The southern Dyirbal dialects do not show contrastive vowel length.

It is likely that Wargamay and Nyawaygi preserve a length distinction that was in a proto-language, ancestral to the four modern tongues (Dixon 1980a); this initial length contrast has simply been lost in Dyirbal and Yidin. Yidin has evolved a length distinction in non-initial syllables by a series of recent changes (documented in Dixon 1977a:42-88, 1977b), while the Ngagan and Wari dialects of Dyirbal have developed long vowels in all types of syllables through a recent change of a quite different type (Dixon 1972:342-5, 1980b). A comparative survey of the occurrence of vowel length in languages of the Cooktown/Cairns/Towns-ville area is in Dixon, 1976a.

#### 2.1 CONSONANTS

Wargamay has

	labial	apical	laminal	dorsal
stop	b	d	g	g
nasal	m	n	ת	ŋ
lateral		1		

There are also

two semi vowels: dorso-labial w and laminal y and two rhotics, distinguished mainly in terms of place of articulation (although the frontmost rhotic is more often a trill, and tends to involve more taps):

- $\ensuremath{\text{r}}$  normally an alveolar trill (sometimes a single flap)
- c either a semi-retroflex (post-alveolar) continuant or else a flap or short trill articulated towards the back of the alveolar ridge.

Rhotic minimal pairs include gambara 'cyclone', gambara 'body'; gurugu 'grog' (a loan), gurugu 'dove'. Minimal pairs distinguishing /r/ from /d/include /bari/ 'stone', /badi/ 'hook fish'.

Apical stop, nasal and lateral involve the tip of the tongue touching the alveolar ridge; sometimes an apicopostalveolar (retroflex) allophone occurs following u. Intervocalically, /d/ can be realised as an alveolar flap [r]. It appears that [r] can be an allophone of both /d/ and /r/ - we have [bari] in free variation with [bari] - featuring a trill - for /bari/ 'stone', and [bu:riya] alternating with [bu:diya] for /bu:diya/ 'take!'.

ing with [bu:diya] for /bu:diya/ 'take!'.

Phonemes in the laminal column normally have laminopalatal realisation. However, lamino-interdental allophones have been encountered before a and before u (following
a normal Australian pattern - Dixon 1970): [nada] alternates with [nada] '1sg pronoun, A function' and [dana] with
[dana] '3pl pronoun, S function'. Wargamay is mid-way
between Dyirbal, which has no interdental sounds, and Nyawaygi, where interdental is the major allophone for laminal
stop and nasal.

The labials and velars do not show as much allophonic variation. But /g/ can be labialised when u follows (and, probably, only when there is a dorsal consonant in the

following cluster) e.g. [gwuygal] 'long-nosed bandicoot'. And /b/ has been heard lenited to a bilabial fricative when non-utterance-initial e.g. [ηί:[aβada], /ηί:[a bada/'tie up the dog!'.

Most words beginning in /yi.../ can be realised either as [yi...] or as [i...]; thus /yimirigi/, [imirigi] 'be glad-PERFECT'; /yigara/, [igara] 'crayfish'. However, the initial /y/must be pronounced in, for example, /yira/, [yira] 'tooth'; it may be that initial [y] can be omitted before [i] only when followed by a nasal or stop. Note that initial /w/ is always pronounced, even before /u/, thus [wudu] 'nose', [wurbi] 'big' (never [udu] or [urbi]). Compare with Yidin where initial /y/ and /w/ are always pronounced (Dixon 1977a:34-5) and Dyirbal where either semi-vowel can usually be elided before a homorganic vowel (Dixon 1972:278).

# 2.2 VOWELS

In the second or later syllable of a word, Wargamay has three vowel phonemes:

> u close back i close front a open

In the initial syllable of a word there is a contrast between short and long vowels - effectively a six-term system, u, u:, i, i:, a, a:. The vowels occurring in non-initial syllables are most similar in length and quality to the short vowels in initial syllables.

Since Wargamay is an entirely suffixing language it will be seen that all long vowels occur in roots; affixes exclusively involve short vowels.

There are in fact just two examples of long vowels in a non-initial syllable - di:di: 'bird (generic)' and bi:lbi:l'peewee (Grallina cyanoleuca)' (the latter, at least, is onomatopoeic). Note that these appear to be reduplicated, although the non-reduplicated forms (di: and bi: ) are not attested. However, in other Australian languages roots that involve 'inherent reduplication' pattern phonologically like compounds - that is, the intramorphemic boundary halfway through the root allows the phonotactic possibilities normal for intermorphemic boundaries (cf Dixon 1977a:36-7 for Yidin) - and these two forms do not therefore pose any serious counterexample to our generalisation that long vowels are restricted to initial syllables.

Minimal pairs involving a length contrast are:

```
'lpl pronoun, SA form' na:na
                                        'interrogative pronoun, O form'
nana
        'to hook a fish'
badi-
                                ba:di- 'to cry, weep'
giba
        'liver'
                                gi:ba- 'to scratch'
        'cloud, sky'
                                         'to rub'
                                du:ra-
dura
                                         'black'
        'buttocks'
                                du:lu
dulu
        'bark bag'
nuba
                                nu:ba-
                                        'to sharpen'
ganda- 'to burn, cook'
                                ga:nda- 'to crawl'
```

Of the 920-word Wargamay lexicon, 90 items (almost 10%) involve a long vowel. And note that although verbs make up

only 16% of the total lexicon, 38% of long vowel items are (Comparative evidence suggests that Wargamay vowel length goes back to a proto-language. The fact that such a high proportion of verbs involves long vowels may be partly explained by the fact that, in the course of linguistic evolution, verbs are less likely to be tabooed - and replaced by a form borrowed from a neighbouring language - than are words from other parts of speech.)

Nineteen of the long vowel roots are trisyllabic and 56 are disyllabic e.g.

```
'mud cod'
bu:ŋguray
           'a snore'
                            gu:gal
           'urine'
                             da:la
                                    'empty'
du:dara
du: | ndurup 'navel'
                            ma:ngay 'silly (person)'
```

There are thirteen monosyllabic words in Wargamay, each containing a long vowel (that is, there are no monosyllables with just short vowels). Seven comprise a closed syllable:

```
di:I
      'a black bird'
                              qu:n
                                    'spirit of a man'
                                    'man'
di:u
     'eyebrow'
                              ma: I
     'salt' (a loanword)
                              yi:I
                                    'name'
du:I
du:n 'Herbert River/Gorge'
```

and six an open syllable:

```
di: 'tea' (a loanword)
                              wi:
   'jaw' (B)
                                    'hoe' and 'war' (two homo-
da:
                              wu:
na: 'not'
                                      nymous loan words)
                              ya:
                                    'top of a tree'
```

The actual phonetic length of a vowel appears to depend on the following consonant (cf Lehiste 1970:27):

(a) the shortest variety appears before a stop -[gi·gin], /gi:gin/ 'swamp wallaby';

(b) a slightly longer variety occurs before a nasal -[ma:ni-], /ma:ni-/ 'hold in hand, catch hold of'.

(c) the longest variety of all is encountered before the semi-retroflex rhotic continuant (whether this is itself prevocalic or preconsonantal) - [du::[a-], /du:[a-/ 'to pull up', [gu::cducu], /gu:cducu/ 'beetle'. In the case of the longest vowels, type (c), I sometimes heard (and transcribed) a long vowel, and sometimes a

sequence of vowel-semivowel-vowel i.e. [duwuga] etc. Type (b) were consistently transcribed with a long vowel. type (a) words were noted sometimes to have a long vowel, and other times to have a short one, in my early trans-Further questioning was undertaken to resolve cription. the inconsistency, and I was corrected when I said, for instance, [didin], the informant especially stressing and lengthening the vowel, [gi:gin], to indicate the correct pronunciation.

The realisations of Wargamay short vowels /u/ and /i/ range from close to half-close, and that of  $\mbox{\sc /a/}$  from open to half-open. It seems, however, that long close vowels can have more distant allophones - thus /yu:[igi/, [yo:[igi] 'grow-up-PERFECT' for instance.

In a monosyllable /u:/ can be realised as [u:] or [uwu], /i:/as[i:] or [iyi], and /a:/ as [a:] or as [a?a]. Thus we have [yiyil] alternating with [yi:1], [ma:1] with [ma?al],

and [ $\eta$ a:], with [ $\eta$ a?a], etc. ([a?a] also occurs in inflected forms of /ma:|/ e.g. [ma:|du]^[ma?a|du] 'man-ERGATIVE'; but [a?a] has not been encountered as the realisation of /a:/ in any form that involves a polysyllabic root.)

Note that there are arguments against interpreting long vowels as, phonologically, vowel-semivowel-vowel sequences; that is, against writing /bu:di-/'to take' as /buwudi-/, and so on. There is a critical morphophonological rule that is sensitive to the number of syllables in a word: for transitive verbs in the W dialect imperative is -ya after a disyllabic stem ending in -i, but is - $\emptyset$  in all other circumstances (after any stem ending in -a, or after a trisyllabic in -i). Thus we get:

stem wugi- imperative wugiya 'give!'
baba- baba 'spear!'
gungari- gungari 'cut!'
bu:di- bu:diya 'take!'

The fact that bu:di- (and also ma:ni- 'take hold of', da:lbi- 'scoop water up' and so on) takes  $-\emptyset$  imperative suggests that the root here involves just two syllables.

There is, however, no morphological criterion applying to monosyllables, and we could consider treating long vowels in monosyllables differently from those that occur in polysyllabic roots. There are no examples of contrast (in monosyllabic or polysyllabic forms) between -iyi- and -i:- or between -uwu- and -u:- so we could assign the sequences -iyiand -uwu- to underlie surface [i:] and [u:]. There is difficulty, however, with [a:]. The most likely solution here is /awa/ but this is ruled out since it does contrast with /a:/. Thus /mawa/ 'shrimp' is never realised as [ma:] or [ma?a] and demands to be treated in a different way from [ma:|]~[ma?a|]. The only way completely to avoid postulating forms which are phonologically monosyllables would be to have an additional phoneme /?/ that would appear in just four roots! The long vowel interpretation, outlined above, is surely preferable to this.

In Dyirbal, sequences /awa/, /uwu/ and /iyi/ can be realised as [a:], [u:] and [i:] respectively, but these are less frequent realisations than [awa], [uwu] and [iyi]; the latter pronunciations are always given in lexical elicitation (Dixon 1972:278). There are in Dyirbal morphological reasons for preferring a vowel-semivowel-vowel interpretation; for instance, locative case is -nga onto a disyllabic but -ga after a trisyllabic root ending in a vowel, and the locative of guwumba 'a wild fruit' is -ga (not -nga). Note that only about 1% of the Dyirbal lexicon involves /awa/, /uwu/ or /iyi/ sequences, whereas 10% of the Wargamay corpus shows a long vowel.

Plainly Dyirbal imposes its 'vowel-semivowel-vowel' interpretation on any phonetic long vowel (and this is related to a requirement that every word in Dyirbal have at least two syllables) whereas Wargamay would interpret a phonetically identical sound as a phonological long vowel. Thus we have correspondences:

and close cognates:

Dyirbal /guwuy/ 'spirit of a man' Wargamay /gu:n/

Both Dyirbal /diyil/ and Wargamay /di:l/ could be pronounced [diyil] (and similarly for the second line). This does not, however, hold for the third and fourth pairs. Dyirbal allows /awa/ to be realised as [a:] whereas Wargamay maintains a distinction between /awa/ and /a:/(the Wargamay phonetic sequence [a?a] is missing from Dyirbal).

# 2.3 STRESS

Stress is assigned as follows:

- (1) if the first syllable involves a long vowel, then it must receive primary stress;
  - (2) if there is no long vowel in a word,

and (a) the word is disyllabic or quadrisyllabic, primary stress goes on the first syllable;

(b) the word is trisyllabic or quinquesyllabic, primary stress goes on the second syllable.

Secondary stress goes on the syllable next but one after primary stress, except that a final syllable can never bear stress.

Thus:

- (1) mú:ba 'stone fish' gí:bara 'fig tree'
  (2)(a) báda 'dog' gígawùlu 'freshwater jewfish'
  - (b) gagára 'dilly bag' durágay-mìri 'Niagara Vale-FROM'

It will be seen that stress shifts between the absolutive form of a noun (which involves zero inflection) and an oblique form, e.g.

munan 'mountain-ABS' munan-da 'mountain-LOC'

The Wargamay stress assignment rules make it impossible to get two successive stressed syllables; and two successive unstressed syllables are only possible in a word with an odd number of syllables and the initial vowel long, as qi:bara above.

A non-initial vowel that bears primary stress may be phonetically lengthened e.g. [muŋá·nda] 'mountain-LOC'; this must be carefully distinguished from the phonologically contrastive length in initial syllables (which has stronger and more consistent quantitative realisation). Phonological and phonetic length specifications do in fact function at different 'levels'. Thus we have, in the following order:

- 1. Underlying forms with phonological length specification.
- 2. Stress rule onto the first syllable of a disyllabic word, or a word of any length involving a long vowel; but onto the middle syllable of a trisyllabic word with all vowels short.

3. Optional phonetic lengthening of non-initial stressed syllable.

That is, phonetic lengthening is dependent on stress placement, which in turn depends on the occurrence of phonological length.

(Pre-Yidin probably had stress assignment and phonetic lengthening rules rather like modern Wargamay. It then introduced a rule deleting the final syllable of words with an odd number of syllables, under certain phonologically—and grammatically—defined conditions; this made the place—ment of stress in a word phonologically contrastive, as malá·nu > malá·n 'righthand—ABS' contrasting with málan 'river—ABS'. Finally, contrastive stress (with concomitant leng—thening) was replaced by contrastive length (which determines stress placement) — /malá:n/ versus /málan/. See Dixon 1977a,b.)

# 2.4 PHONOTACTICS

A Wargamay root has phonological structure:

either 
$$C_1V:(C_3)$$

or 
$$C_1V(:)C_2V(C_2V)^n(C_3)$$
 where n>0

In these structures:

V is any vowel (a, i or u);

 $\text{C}_1$  can be any consonant except I or r; that is, it can be a stop, a nasal, a semi-vowel, or  $\ensuremath{\complement};$ 

 $C_3$  can be y, I, r or any nasal other than  $\eta$ ; that is, it cannot be a stop, w,  $\Gamma$  or  $\eta$ ;

C2 can be

(i) any single consonant; or

(ii) a homorganic nasal-stop sequence; or

(iii) |, r, g or y followed by a non-apical stop, or nasal, or nasal-stop sequence, or by w; or

(iv) n followed by a non-apical stop or nasal.

The following clusters, which would be predicted by these generalisations, have not been encountered: |p|, np, pm, pm

In addition, -iy- must be immediately followed by a vowel (that is, this sequence can never occur at the end

of a syllable).

There are just three words not covered by the general statement. 'Male kangaroo' has been heard as yawuymbaji and as yawuymbaji, but when I enquired about the pronunciation it was said slowly as yawuy baji. It seems that a nasal is inserted between second and third syllables and can be assimilated in place of articulation either to the preceding or to the following segment. gu:Ingujun 'navel' was treated similarly - it was said slowly simply as gu:I gujun, without the nasal segment. The third item is yujuynbi

'bank of river', which occurs only in a song.

There are considerably wider cluster possibilities across a morpheme boundary, effectively  $C_3$  followed by  $C_1$  (affixes can begin with almost all segments that can commence words). Across a nominal stem+inflection boundary we can also get possibilities not included under  $C_2$  e.g. -Id- or even -Ind- (for ergative case - see 3.1.1).

Loans generally follow the possibilities outlined above. The only exceptions noted (and these may be ad hoc 'loans', rather than items that were properly assimilated into the language at a time when it was actively spoken) are drayga 'tracker' and layn '(fishing) line'. The mapping of English into Wargamay phonotactics in loans generally follows the principles described for Dyirbal (Dixon 1972: 325-6). Noteworthy examples include bagir 'basket' - where English -s- is lost before the velar stop, and final -t is rendered as -r (Wargamay words cannot end in a stop) - and nabicbil 'Herbert Vale', where the initial consonant is supplied as n, for an English loan that begins in an open vowel (or h plus open vowel).

# 2.5 PROBABILITIES OF OCCURRENCE

Relative probabilities of occurrence were calculated, from the 920-item lexicon, for initial,  $C_1$ , and final,  $C_3$ , consonants. The  $C_1$  count covers all parts of speech whereas the figures for final consonants exclude verbs (which all have roots ending in -a or -i, see 3.5.2).

	root initial	root final
b	0.19	
ď	0.02 \ 0.60	
ģ	0.15	
g m	0.12	0.015]
n	0.007 \ 0.22	0.015 $0.365$ $0.49$
ת	0.02	0.11
Ŋ	0.07	
У	$0.07 \} 0.17$	0.16
W	0.10 )	,
ı	0.001	$\begin{bmatrix} 0.31 \\ 0.04 \end{bmatrix} 0.35$
r		0.04
Γ	0.01	

The relative probabilities for vowels are (with initial syllable figures covering all parts of speech but the non-initial count excluding verbs):

	initial	syllable	non-initial
			syllable
а	0.43		0.47
i	0.18		0.21
u	0.39		0.32

There was no significant difference between figures for open or closed syllables, or for short versus long vowels.

About 63% of non-verbal roots end in a vowel; this compares with figures of 50% for Dyirbal, 44% for Yidin

and 60% for Nyawaygi.

At C2, homorganic nasal-stop clusters (mb, nd, ng, ng) outnumber non-homorganic clusters (nb, ng, ng) by about four-to-one. Nasal-nasal clusters are much rarer than in Dyirbal - only three examples of -nm- and one of -nn- were encountered.

#### 2.6 PHONOLOGICAL PROCESSES

[A] Yotic deletion. This is the one important morphophonemic rule in Wargamay. We have already noted that a sequence -iy- must be followed by a vowel, never by a consonant or word-boundary. If an illicit sequence is generated by morpheme combination, then the -y- is simply dropped:

YOTIC DELETION RULE  $-iy- \rightarrow -i \left\{ \begin{array}{c} -C \\ -\# \end{array} \right\}$ 

There is an identical rule in Dyirbal (Dixon 1972:287) and in Warunu, and a similar one - in which -iy is sometimes replaced by -i: - in Yidin (Dixon 1977a:77-83).

[B] Nasal insertion. There are sporadic examples of a nasal being inserted between a syllable-final y or I and a syllable initial stop. Three examples of apparent nasal insertion within roots were given in 2.4. Locative and ergative case inflections, with canonical shapes -da and -du, become -nda and -ndu after a stem ending in -I (3.1.1). There is also a nasal in gubimbulu 'very wise man', presumably based on gubi 'wise man' and -bulu 'very' (3.1.3). An inserted nasal can be assimilated in place of articulation to the following, or sometimes to the preceding, segment.

Ergative and locative case allomorphs provide further examples of assimilation, this time of a stop to a preceding nasal or y (3.1.1).

[C] Haplology. There are in the grammar a number of examples of a syllable being omitted from a longish form when it is phonologically identical to or similar to the preceding or to the following syllable.

(i) the inchoative verbaliser has allomorphs -mbi (following a vowel)~-bi (following a nasal)~-i (following | or r. The -bi-is omitted from the postvocalic allomorph -mbi when continuative suffix -bali follows. Thus:

nominal bi:[a 'fear' but gubil 'whistle' bi:[ambi- gubili- hinchoative+continuative bi:[ambali gubilibali

Note that -bi- is phonologically similar to the following -ba-, and that it must be omitted in this environment; a fuller discussion is in 4.9.1. The continuative suffix cannot be added directly to a nominal root, so there is no possibility of ambiguity here.

(ii) purposive inflection is -lagu onto an intransitive stem. However, the -la- is sporadically omitted after a trisyllabic stem - all the examples noted have third syllable -ra- or -li- (quite close in form to -la-). Thus guwaralagu and guwaragu were both recorded for 'stand-PURPOSIVE'; when elicitation was directed to this point the informant preferred the canonical form guwaralagu. In one of the texts

recorded by Jimmy Johnson the disyllabic root wula- 'to die' plus purposive -lagu was said as wulagu (not wulalagu). See 3.5.4.

(iii) we surmise in 3.5.3 that an original monosyllabic verb di:- 'to sit' has effectively been reanalysed as having a disyllabic root di:gi- in the W dialect. But the -gi-can optionally be omitted before continuative -bali; thus di:gibali~di:bali. This could be explained in either of two quite different ways - through the general syllable elision tendency of Wargamay, or in terms of the reanalysis of di:- in terms of di:gi- being not quite complete. Or it could be due to the intersection of these two rather disparate factors. (But note that -gi- is rather different in form from the following syllable -ba-; the preceding di:- is unlikely to be relevant since -gi- does not drop from di:gi- with any other suffix.) See 3.5.3.

(iv) there are other isolated instances of syllable elision in my corpus. For instance, <code>gumba-'put</code> in, go in' plus -bali was heard as <code>gumbali-</code>, and <code>gi:ba-'scrape</code>, <code>scratch'</code> plus -bali was said as <code>gi:bali</code>, as in (140) below (I was in fact corrected when I said <code>gi:babali</code>). But note that the reciprocal suffix -ba- is never dropped from <code>bucba-ba-y 'hit-RECIP-UNMKD'</code>; if it were the verb would be indistinguishable from the non-reciprocal form <code>bucba-y (see 4.5)</code>.

Syllable elision could almost be described as a 'personality trait' of Wargamay grammar (nothing of this nature has been noticed in surrounding languages). It is except in the case of (i) - almost always a sporadic phenomenon.

# 2.7. COGNATION WITH NEIGHBOURING LANGUAGES

The majority of words cognate between Wargamay and a neighbour are identical in form in the two languages. There are, however, some systematic differences:

[A] Long vowels. Generally, a long vowel in Wargamay simply corresponds to a short vowel in Dyirbal and Waruŋu, languages that have no contrastive length. Thus:

```
Wargamay ba: Iba- 'to roll' Dyirbal, Warunu balba-
bu: di- 'to take, bring' Dyirbal budi- 'to carry'
```

In the case of most of the long/short vowel minimal pairs, listed in 2.2, only one member occurs in Dyirbal. For instance:

```
Wargamay
nana 'lpl pronoun, SA form,
na:na 'interrogative pronoun, O form'
badi- 'to hook a fish'
ba:di- 'to cry, weep'
giba 'liver'
giba (Giramay dialects)
gi:ba- 'to scrape, scratch'
gipa 'pyrbal
nana
wanuna
badi-
dungara-
dungara-
giba (Giramay dialects)
giba-
```

But there is one example of a minimal pair in Wargamay

corresponding to homophones in Dyirbal:

Wargamay dura 'cloud, sky' Dyirbal dura dura-

Correspondences between long vowels in Wargamay monosyll-ables, and vowel-semivowel-vowel sequences in Dyirbal, were mentioned in 2.2.

Long vowels in Wargamay normally correspond to long vowels in Nyawaygi and in other, widely separated, languages (in cases where there is a corresponding form). For instance, Wargamay ma:ni 'hold in the hand' corresponds to ma:- 'hold in the hand' in Nyawaygi and also to ma:- 'take' in Guugu-Yimidhir (next language but two to the north of Yidin, spo-Similarly, 'cry' is ba:ri- in Nyaken around Cooktown). waygi, ba:di- in Wargamay and ba:di- in Guugu-Yimidhir. It is this sort of correspondence which leads us to suggest that length in the initial syllables of Wargamay, Nyawaygi and Guugu-Yimidhir words is rather ancient, and has simply been lost in the intervening Dyirbal/Yidin block (Yidin has simply badi-'to cry', and mani- 'to catch in a trap', for instance). (Further discussion of long vowel correspondences will be found in section 2.7 of my Nyawaygi grammar.)

[B] Final [. The main phonotactic difference between Wargamay and its northerly neighbour is that in Dyirbal, but not in Wargamay, roots and words can end in the retroflex grooved continuant, [. There are in fact a number of cognate pairs in which the Wargamay member simply has a vowel following what is final -[ in Dyirbal:

Wargamay baguլս Dyirbal baguլ 'sword' gu:gaլa gudaլ 'urine' դamiլi դamiլ 'hungry'

In each of the nine examples of this type of correspondence, the vowel following [ in Wargamay is identical with the preceding vowel. It is thus, on this data, equally plausible that Dyirbal dropped a final vowel, or that Wargamay introduced one (say, at a time when it adopted a constraint that words could not end in [). Eight other trisyllabic Wargamay roots ending in [-plus-vowel have identical form in Dyirbal, e.g.:

Wargamay yinagi Dyirbal yinagi 'cave'

Five of these have the same vowel on each side of [, and three have different vowels. (There are five quadrisyllabic Wargamay words ending in [-plus-vowel that have cognates in Dyirbal - the Dyirbal and Wargamay forms are all identical.)

There is, however, phonotactic evidence that can help us decide between the two alternatives mentioned in the last paragraph. There is in Wargamay, as in most Australian languages, great similarity between the set of consonants that can commence a consonant cluster, and those that can end a word (that is, between the closing segments of non-final and of final syllables). Note that although cannot end a word, there are more than two dozen examples of medial clusters beginning with [ (and [ does here con-

trast with r - as in the minimal pair wirga 'nulla nulla (club)', wigga- 'to bathe'). This surely favours the hypothesis that originally Wargamay allowed [ at the ends of all syllables - as Dyirbal still does - and at a late stage eliminated word-final [ by simply repeating the vowel of the preceding syllable.

[C] Initial [. Leaving aside loans, only 7 roots in my Wargamay lexicon begin with [-, less than 1% of the total; in contrast, Dyirbal has 3% of its lexical roots commencing with [-. (Four of the seven Wargamay roots do occur in identical form in Dyirbal.)

There are two isolated correspondences involving prinitial items in Dyirbal:

Wargamay wulgudu Dyirbal rugudu 'Torres Straits pigeon' guwa ruwa 'west'

[D] Final -p. Eleven per cent of the consonant-final roots in Wargamay end in the laminal nasal, p (2.5), a figure almost twice that for Dyirbal (Dixon 1972:279). There are in fact four cognate pairs in which Wargamay -p corresponds to -y in Dyirbal:

Wargamay dagan 'sand guana' Dyirbal dagay dawun 'hot' dawuy 'steam' gu:n 'spirit of a man' guwuy wagun 'sea' waguy 'sand'

And there are four correspondences in which Dyirbal also has a final -n:

Wargamay bundin 'grasshopper' Dyirbal bundin gulin 'east' gulin wargin 'boomerang' wargin dubun 'slow' dubun 'gentle,

Note that all-in final items in Wargamay also have the nasal in Dyirbal; the sequence -iy is not permitted at the end of a syllable in either language. But four out of the five roots ending in -an or -un in Wargamay have a final -y in Dyirbal. This suggests that final -n was lenited to -y in Dyirbal in cases where it did not follow the homorganic vowel -i. (gubun could have been a loan from Wargamay after the lenition rule operated, or there may be some other explanation for this form.)

- [E] gi- and gi-. In many languages of eastern Australia can be found cognate pairs involving a correspondence between gi and gi or gi. For instance:
- (i) the comitative suffix on nominals is -giri in Wargamay (3.1.3), -gi in Nyawaygi, \*-gir in Warunu and Yidin, -gir in Guugu-Yimidhir, etc. (see Dixon 1976b:203-310);
- (ii) both Nyawaygi and Guugu-Yimidhir have a small closed verbal conjugation which includes wu- 'to give' and na:- or na:- 'to see'; the past/perfect inflection on this conjugation is -gi in Nyawaygi and -di in Guugu-Yimidhir;
- (iii) giba is 'liver' in Wargamay and in the Giramay dialect of Dyirbal, and 'stomach' in Nyawaygi; giba is 'liver' in

the northern dialects of Dyirbal and in Warunu, and diba is 'liver' in Guugu-Yimidhir;

(iv) 'mother's father' is ηagi in Dyirbal, ηayginan in Wargamay, ηaygi in Nyawaygi, ηagi in Waruηu and ηagi in Guugu-Yimi-dhir.

It appears that this set of correspondences covers a large geographical area (and should not be regarded as something particular to Wargamay).

# 3. MORPHOLOGY

For Wargamay the following word classes, with mutually exclusive membership, can be set up:

Noun and adjective have almost the same morphological properties; there is, of course, a clear semantic difference. Locational and time qualifiers take a subset of nominal inflections, but show enough minor differences to be considered separate word classes. Pronouns show inflections that are quite similar to those on nominals, but also demonstrate important differences (and some irregularities). Verbs have a separate set of inflections from nominals, pronouns, etc.

The closed classes are fully listed below: pronouns and demonstratives in 3.4, particles - which provide modal-type qualification of a complete sentence - in 4.10 and interjections in 4.12.

Members of the remaining, open, classes are listed in the vocabulary; the semantic content of these parts of speech is best seen from examination of this list. Generally, the semantic contents are quite close to those for Dyirbal (Dixon 1972:39-41). Significant differences are (i) Dyirbal has a set of adverbs, inflecting like verbs e.g. 'do well', 'do slowly'; Wargamay appears to specify value and speed entirely through adjectives; (ii) where Dyirbal has adjectives 'angry', 'sleepy', 'frightened', Wargamay appears to have abstract nouns 'anger', 'sleepiness', 'fear', a modifying stem being formed by the derivational affix-qiri 'with' (3.1.3).

Each root in Wargamay belongs to just one word class. There are a number of processes that derive a stem of a different class - forming verbs from nominals, adjectives from nouns, etc. In Dyirbal, Yidin and Nyawaygi every verbal root is strictly specified for transitivity (half-a-dozen exceptions are known in Dyirbal, none in the other

two languages); Wargamay is unusual among languages of this area in having a large number of verbal roots (probably, two-thirds of the total) able to take either the transitive or the intransitive conjugational inflections.

#### 3.1 NOMINALS

A noun or adjective in Wargamay must involve a root and a case inflection (one choice being absolutive, which has zero realisation). Between root and inflection can come one or more derivational affixes, listed in 3.1.3. All nominals in a noun phrase must agree in case inflection.

3.1.1 CASE INFLECTIONS. The full set of case inflections is:

We now take these in turn, giving the formal and functional possibilities:

[1] Absolutive. This always has zero realisation, absolutive form coinciding with the stem. It marks intransitive subject and transitive object functions.

[2] Ergative-instrumental.

FORM - -ngu after a vowel e.g. bari 'stone', ERG baringu -du after a consonant, with assimilation of the -d- in place of articulation to a stem-final nasal e.g. gi:gin 'wallaby', ERG gi:gindu; muninin 'black ant', ERG muniningu; walam 'tick', ERG walambu.

After the yotic, y, there is again assimilation; the stem-final -y can optionally be dropped before ergative -gu e.g. ma:ngay 'silly', ERG ma:ngaygu~ma:ngagu.

After the lateral, I, an -n-can be inserted before

After the lateral, I, an -n-can be inserted before ergative -du; the stem-final -I can be dropped only when the -n- is present. Thus ma: I 'man', ERG ma:Indu~ma:Idu~ma:ndu (but not \*ma:du).

After the trilled rhotic, r, ergative is simply -du e.g. gurur 'brolga', ERG gururdu.

FUNCTION - A nominal in transitive subject function must bear ergative inflection. The same inflection is used to mark the instrument or tool used in an action e.g. 'hit with a stick', 'tie with a rope'; note that the instrument can be a body part e.g. 'hit with the hand', 'blow with the mouth'. With a verb of giving, instrumental inflection marks the noun phrase referring to 'that which is given' - 4.6.3.

If a basically transitive verb is used in an intransitive construction then its 'object' NP will bear ergative-

instrumental inflection - 4.2. Note that the interrogative mipa 'what' does have distinct ergative and instrumental case forms (3.1.5), supporting the recognition of two distinct cases, with identical realisation.

[3] Locative-aversive.

FORM -nga after a vowel e.g. nalu 'water', LOC nalunga -da after a consonant, with assimilation of the -d-in place of articulation to a stem-final nasal e.g. munan 'mountain', LOC munanda; gulgin 'scrub', LOC gulginga; yinam 'Ingham', LOC yinamba,

'Ingham', LOC yinamba,
After y, locative is -da e.g. bu:nguray 'snore', LOC
bu:ngurayda; elision of the stem-final -y has not been encountered.

After I, locative is normally -nda e.g.  $\eta$ agul'deep', LOC  $\eta$ agulnda. Elision of n or I (as for ergative) may be possible, but has not been encountered.

After r, locative is simply -a e.g. milbir 'pine tree', LOC milbira.

It will be seen that locative exactly parallels ergative (the two cases differing only in the final vowel) except after -r, where ergative is -du and locative -a. (There may also be different possibilities of elision after -y and -I.) Locative and ergative allomorphs after -r may be effectively reversed in Biyay. Nora Boyd, the only informant for this dialect, gave yimbur 'pelican', ERG yimburu and milbir 'pine tree', LOC milbirda. (Or it may be that both types of allomorph are possible for both cases in all dialects!)

FUNCTION - The main use of locative case is to indicate a position of rest ('at', 'in' or 'on'):

- (1) nayba yugaray nalunga I swam in the water
- (2) nayba munanda walagi I climbed the mountain

Locative can also be used to indicate accompaniment; e.g. added to yungura 'another one':

- (3) nayba gagabali yunguranga I'm going with another fellow And it can have a temporal sense; from balanu 'moon' is obtained balanunga 'in the moonlight':
- (4) nali ninba gagalagu balanunga gagaragu nunilagu ldu-SA 2sg-S go-PURP moon-LOC possum-DAT hunt-PURP You and I'll go hunting possums by moonlight.

There is similarity between the use of locative in (4) and that in

- (5) nayba na: bungi / ninunda bu:ngurayda lsg-S NOT sleep-UNMKD you-LOC snore-LOC I couldn't sleep for your snoring.
- In (5)  $\eta$  inunda bu: $\eta$  gurayga could be glossed 'during your snoring', but the causal sense 'because of your snoring' is also implied. This usage merges into the aversive sense, where the inflection  $-\eta$  ga~-da indicates some person or thing that is to be avoided, with the action referred to by the main verb normally being directed towards this avoidance:

(6) nayba bimbirigi waybalanga
lsg-S run-PERF white man-AVERS
I ran away from the white man

This case is also used on the complement of a verb of fearing, 'that which is feared' - see (64) in 3.4.1. The nominal aversive inflection has close semantic connection with the apprehensional sense of the irrealis verbal inflection - 3.5.4.

The interrogative mipa 'what' has distinct locative and aversive case forms (3.1.5), supporting the recognition of two distinct cases, with identical realisation.

A final use of this inflection - probably best included under the 'locative' label - is to mark a language or speech-style being used e.g.

- (7) puna banmalagu wargamayda He can talk Wargamay
- [4] Dative-allative
  FORM -gu after all stems e.g. mida 'camp', DAT-ALL midagu;
  gulgip 'scrub', DAT-ALL dulgipgu.

FUNCTION - This inflection can have a purely local usage ('allative'), indicating motion towards some place or thing, e.g.

(8) nayba banalagu midagu I must return to the camp

Notice, though, that in some cases where English would use 'to', the locative is preferred in Wargamay; e.g. with gumba- 'to enter':

(9) midanga dumbaga Come into the camp!

-gu also has a non-local use ('dative'), marking indirect object, etc - examples are in 4.3.1, 4.6.3. This use shows up in mipagu 'what for, why?' from mipa 'what?', as in

(10) minagu ninba ba:digi Why did you cry? (=What did you cry for?)

There is reason in Wargamay to distinguish allative and dative cases, that have identical realisation on nominals. Allative will cooccur with an allative deictic such as pagunga '(to) there' (3.4.3) whereas dative would choose the dative form of the third person pronoun, punangu 'to/for him/her/it' (3.4.1). Compare:

- (11) ninba gagaga nagunga midagu You go there to the camp!
- (12) nayba gagay nunangu midagu (nundalagu) I'm going to the camp (to look at it)

The inclusion of a dative NP in (12) implies that the actor is going to the campsite to do something to it (e.g. clear it, mend it, or look it over to see what condition it is in). There is the expectation of a verb in purposive inflection being included in a sentence with a dative NP - but not in one with an allative NP - to form a 'favourite construction' (4.3.3). Thus, when the first three words of (12) were put to Nora Boyd she added nundalagu.

Note that a sentence in Wargamay can involve both an allative and a dative NP:

(13) puna ma:pda burmbi / ŋalugu / ḍa:bugu 3sg-SO line-ABS throw-UNMKD water-ALL fish-DAT [I've] thrown the line, into the water, for fish

[5] Ablative

FORM - in W: -pip after all types of stems e.g. palu 'water', ABL nalunin; yinam 'Ingham (loanword)', ABL yinamnin. The initial -n- can be dropped following a consonant e.g. balgan 'house', ABL balgannin~balganin.

in B: -p after a vowel e.g. galu 'water', ABL galup -ip after a consonant e.g. yugan 'rain', ABL yuganin

FUNCTION - This suffix has a predominantly local sense, indicating 'motion away from':

(14) nulanga ma:ldu du:ray ŋaɲa ŋaluɲiɲ 3sg-A man-ERG pull-UNMKD lsg-O water-ABL The man pulled me from the water.

It can also be used with time qualifiers (3.3) and with nominals, indicating temporal sequence:

(15) wugarnin nayba walay sleep-ABL 1sg-S get up-UNMKD I got up from sleep

In just one or two instances, -pip indicates the cause of some state:

- (16) nayba wi:gimbigi magul(n)in 1sg-S no good-INCHO-PERF work-ABL I'm tired from work.
- Genitive. [6]

FORM - - - gu after a stem ending in a vowel, I, r or y e.g. waybala 'white man', GEN waybalanu; ma: | 'man', GEN ma: | nu; gurur 'brolga', GEN gururnu; gilbay 'knowing', GEN gilbaynu -u after a stem ending in a nasal e.g. gilan 'old man', GEN gilapu; garamgaram 'seagull', GEN garamgaramu; girawan 'scrub hen', GEN girawanu.

FUNCTION - the syntactic behaviour of genitives is given in 4.6.1-2.

Note that pronominal genitives do decline, taking case inflections [1-5] above (3.4.1). Although, despite several attempts, no examples have been obtained of nominal genitives declining, it seems very likely that they will do so (as they do in every - or almost every - other Australian language). In view of this, genitive could well be regarded as a stem-forming (derivational) affix, rather than an inflection (for discussion of this point in Yidin see Dixon 1977a:134ff).

It will be seen that there is, in the Wargamay case system, no strict morphological distinction between 'local' and 'non-local' functions. The inflections which indicate local relations all show, in addition, non-local senses. Thus allative coincides with dative, locative is the same as aversive, and -nin can have causal as well as ablative meaning.

3.1.2 ACCUSATIVE SUFFIX -pa. The suffix -pa is quite frequently encountered in Australian languages, marking transitive object function. It is normally found on pronouns but sometimes also on proper nouns, extended in a few cases to common nouns that have human reference (or even to all common nouns).

Non-singular pronouns in Wargamay involve the accusative affix -pa (3.4.1-2). There are also, in the corpus, half-a-dozen examples of -pa being suffixed to a common noun; in each case the noun is in transitive object function. Thus, from text 6 line 6:

Another example is:

(18) ma:Indu guingu banay / muymana
man-ERG neck-ABS choke-UNMKD boy-ACC
The man choked the boy

The other nouns with which -pa has been found are gapa 'father', wigiyan 'white woman', ma: I 'man' and wagun 'tree, wood'. The last example shows that -pa is not confined to occurrence with human nouns. (In (17) binbical is referring to two human females - the myth explains how they were turned into birds.)

The first segment of -pa can optionally be deleted following a stem-final consonant - thus wagunpa alternates with waguna.

It appears that -pa can be added to a nominal in O function almost at whim. Thus, when 'you go and kiss that girl' was asked, Lambert Cocky gave

(19) wigiyana nu:nga / wigiyan nu:nga ninda white woman-ACC kiss-IMP white woman-ABS kiss-IMP 2sg-A Kiss the white woman! You kiss the white woman!

including the accusative suffix in the first clause but leaving it out on repetition.

- 3.1.3 STEM-FORMING SUFFIXES. There are nine derivational suffixes that derive nominal stems from nominal roots:
- [1] *Comitative* -giri 'with'. This can be added to any nominal and derives a stem that has both semantic and syntactic characteristics of a derived adjective.

-giri forms frequently refer to characteristics of a person, thing or place. Either physical characteristics, as

- (20) nungadi wagun mangagiri THAT tree-ABS flower-COMIT-ABS That tree has a flower
- (21) ninu mala pigingiri
  2sg-GEN-ABS hand-ABS fingernail-COMIT-ABS
  Your hand is full of nails (i.e. your fingernails are long)

or some mental or physiological state:

- (22) nayba bimbirigi/ bi:ragiri / gagay migagu
  lsg-S run-PERF fear-COMIT-ABS go-UNMKD camp-ALL
  I had run away in fear, and went to the camp (Text 5.19)
- (23) nayba gabingiri I've got belly-ache (diarrhoea)
- (24) nana ma:ldu wugargiringu nunday lsg-O man-ERG sleepiness-COMIT-ERG see-UNMKD The sleepy man saw me

-giri can also be used to refer to something alienably possessed by a person:

(25) nuna ma: I wurbigiri wagungiri 3sg-SO man-ABS big-COMIT-ABS stick-COMIT-ABS The man has a big stick

An NP that involves a modifier in comitative form can be used in a verbal sentence to indicate someone at rest or in motion, accompanied by some thing or person:

- (26) nuna ma: | guwarabali bangaygiri
  3sg-SO man-ABS stand-CONTIN-UNMKD spear-COMIT-ABS
  The man is standing with a spear (in his hand)
- (27) puna nulmburu gi:gibali gagagiri
  3sg-SO woman-ABS sit-CONTIN-UNMKD child-COMIT-ABS
  The woman is sitting with a child
- (28) nayba gagay nalugiri I'm going with (i.e. carrying) water
- (29) puna gilan gabaygiri wunabali The old man is walking around with (the aid of) a walking stick
- (30) puna nulmburu wunabali gindugiri The woman is walking around with (her) baby

Note that -giri cannot be used to refer to a time or season (as the cognate affix -gi can in Yidin - Dixon 1977a:297; cf Dixon 1976b:203-310); instead, locative inflection must be used, as in (4) above.

'Biyay-giri' is used for the name of the tribe which speaks the Biyay language, characterised by the particle biyay 'no' (1.2).

Like the other affixes described in this section, -girl derives a stem that takes the full range of nominal inflections - ergative was exemplified in (24). -girl can be added to a noun and to its modifying adjective, as in (25), deriving a modifying NP within an NP.

- [2] Privative. -bigay W, -biyay B 'without'. This is the complement of -giri and has an almost identical syntactic-semantic range. For instance:
- (31) nayba nalubiray I've no water
- (32) gagaga nulmburugu gambibiraygu mundugu / gambingu go-IMP woman-DAT clothes-PRIV-DAT naked-DAT clothes-INST ninda wugiya 2sg-A give-IMP
  - Go to the woman who is naked, without any clothes. You give some clothes (to her)!

Just as we have gawangiri 'anger-COMIT' for 'angry', so gawan-bigay appears to be possible, for emphasising that a person is not angry. However, informants did not accept bi:[abigay 'fear-PRIV'.

- [3] -bara 'belonging to, pertaining to'. This affix occurs with identical form and function in a large number of Queensland languages including Dyirbal (Dixon 1972:224-5), Yidin (Dixon 1977a:144-5) and Nyawaygi. It is typically used for the naming of local groups, in terms of the type of territory they inhabit (see 1.2). -bara can be suffixed to a nominal or to a deictic (3.4.3):
- (33) nayba yalanbara I'm from here (i.e. I'm a person belonging to this place)
- [4] -bulu 'very, lots of' occurs with a number of adjectives and a few nouns. pagarambulu 'very small' is in fact more frequent than pagaram 'small'. (Although it could be that this is at least partly due to the fact that -m-final forms are not common in Wargamay my corpus of 900 forms showed only 4 roots ending in -m. There may be a progressive tendency towards eliminating -m in word-final position.) Other examples include gundilbulu 'very heavy', giyalbulu 'very sweet', gawanbulu 'very savage (used of a dog)', wupan-bulu 'very lustful, promiscuous' and galqganbulu 'lots of froth'. However, I was not able to elicit -bulu with other adjectives, suggesting that it is not fully productive.

The noun gubirefers to a clever man or 'doctor'; gubimbulu is used for 'very clever man' - this presumably involves -bulu, with a nasal inserted and assimilated in place of articulation to the following b (2.6).

- [5] -bagun 'really' can be suffixed to adjectives e.g. wurbibagun 'very big', or to nouns e.g. ma:|bagun 'really a man'. With mipa 'what' it can emphasise the speaker's bewilder-ment, as in:
- (34) mipa puna/ mipabagun/ guyngan 'What's that?' 'I don't know what it is. [Maybe it is] a female ghost?' (Text 5.8-9)

See also 3.1.5.

- [6] -baga is a comparative. In all but one of the instances obtained it was suffixed to an adjective e.g.
- (35) dawundu nalungu wugiya / maya nunga gidul /
  hot-INST water-INST give-IMP NO THIS cold-ABS
  dawunbarangu wugiya
  hot-COMP-INST give-IMP
  Give [me] some hot water! No, this is cold. Give [me] hotter
  [water]!

An example of -bara suffixed to a noun is in (245).

- [7] -miri 'as a result of, from'. This appears to have a largely 'causal' sense:
- (36) nayba manday gungulmiri
  lsg-S full-ABS food-miri-ABS
  I'm full from [eating] food

(37) nayba magulmiri / gi:baligu
lsg-S work-miri-ABS sit-CONTIN-PURP
I'm (tired) from work, and need to sit down

But it has also been found in a local sense, 'from':

(38) ma:gangu bu:dinu gulinmiri
 God-ERG bring-PERF spirit home-miri
 'God brought [spirits] from heaven' (here Lambert Cocky
 was explaining how spirits are placed in unborn babies)

It seems that -miri is properly a derivational affix and not a further case inflection (Lambert Cocky gave -miri followed by ablative); but the data available are slim and not totally clear.

- [8]  $-\eta$ aru 'like a', is used to mark a physical or behavioural resemblance. Only two or three examples have been noted, including:
- (39) naga nunday nuluburu / mina nuna gu:nnaru lsg-A see-UNMKD stump-ABS what-ABS 3sg-SO ghost-naru-ABS I saw a stump. What was it it was like a ghost.
- [9] -gaman can be suffixed to kin terms when the speaker is referring to the addressee's relationship to a person. Thus (80) and
- (40) wanganga ninu yabugaman WHERE-LOC 2sg-GEN mother-KIN Where's your mother?

Note that in replying the child could only say naygu yabu 'my mother' (and not \*naygu yabudaman).

-gaman can only be employed with kinship terms (e.g. gana 'father', murgin 'son') and its use is always optional. It cannot be suffixed to terms that classify age-groups (i.e. -gaman is not a permissable suffix with gaga 'child').

The suffix -yara 'another' appears in a text given by Jimmy Johnson (migayaragu 'to another camp') and was given by John Tooth as the equivalent of Giramay -gabun, 'another' but was not recognised by Tooth on a later field-trip; nor could clear confirmation be obtained from other informants.

Four of these derivational affixes occur - with the same form and meaning - in Dyirbal; they are -bara, -bagun, -baga and -naru. (-naru was only heard in Wargamay after it has been used in Giramay elicitation, and there must remain a slight element of doubt as to whether this is a bona fide Wargamay affix.)

3.1.4 REDUPLICATION. Nominal reduplication appears to indicate plurality, and to involve repetition of the complete form (as in Dyirbal - Dixon 1972:242-3). Thus wurbiwurbi'lots of big (things)', gilangilan 'lots of old men', namicinamici 'lots of hungry (people)'. The nouns yibi 'child' and dambi 'old woman' are more frequently than not encountered reduplicated - yibiyibi 'children', dambidambi 'group of old women'. (But, outside these two instances, nominal reduplication has been obtained only through elicitation.)

- 3.1.5 INTERROGATIVE MEMBERS. There are two interrogatives relating to the class of nominals: mipa 'what' and mipap 'how many'.
- [1] mipa'what' effectively ranges over the class of nouns that have non-human reference (and over third person pronouns, when these refer to something non-human).

  mipa inflects exactly like a noun in all cases but two.

mina inflects exactly like a noun in all cases but two There are distinct forms for ergative, instrumental, locative and aversive:

ergative mipa+ngu instrumental mipa+lu locative mipa+nga aversive mipa+la

# Thus:

- (41) minangu nana ganbay
   what-ERG lsg-O hit-UNMKD
   What hit me? (Said by someone sitting under a tree, when some thing fell from the tree on his head)
- (42) minalu ninda burbay nana what-INST 2sg-A hit-UNMKD 1sg-O What did you hit me with?
- (43) minanga ninba gi:gibali
   what-LOC 2sg-S sit-CONTIN-UNMKD
   What are you sitting on?
- (44) minala ninba bi: cambali
  what-AVERS 2sg-S fear-INCHO-CONTIN-UNMKD
  What are you frightened of?

Note that baggu-nga 'axe-LOC/AVERS' could be given as a reply to (43) or (44). In the first case it would indicate that the speaker was sitting on an axe (involving the 'locative' sense of the -nga nominal inflection), and in the second case that he was scared of the axe (the 'aversive' sense of the nominal suffix -nga). Typical examples of the use of minals in discourse are in text 8, line 5 and text 9 line 2.

Over the continent, -lu alternates with -ngu as ergative inflection and -lawith-nga as locative (Dixon 1980a: 301-21). In a number of North Queensland languages the regular inflections are -ngu and -nga, with -lu and -la occurring on just three or four nominals, almost always including mina (we are here assuming that mina 'edible animal' is cognate with the indefinite/interrogative form mina - see Dixon 1980a:376, 495 for discussion of this point, and examples).

It is likely that in an earlier stage of Wargamay -lu and -la occurred only with mina, for the ergative-instrumental and locative-aversive inflections respectively. And that the language then generalised nominal -ngu and -nga for ergative and locative marking, keeping -lu and -la just for the instrumental and aversive functions of mina. Thus, -lu and -la, originally just allomorphic irregularities - adding complication to the grammar without making any contribution to its functional task - have been exploited in

order to distinguish between ergative and instrumental, and between locative and aversive, in the case of the important item mipa. (A further change might then be for -|u and -|a to be generalised as instrumental and aversive markers with all nominals, thus consistently distinguishing these functions throughout the grammar.) See also 5.4.

mipa can be verbalised to form intransitive mipambiand transitive minama- 'do what?' - see 4.9.

- [2] mipap 'how many' ranges over the subclass of number adjectives; it declines like a nominal. Thus:
- (45) A:nina nunday minandu 2sg-O see-UNMKD how many-ERG How many [people] saw you?

B: gumarbaringu a lot-ERG A lot [did].

In most Australian languages, a single form can bear both interrogative and indefinite sense. In elicitation mina-badun, 'very' (see 3.1.3) was given for 'something'; it has not been possible to obtain corroboration of this. See also (34) above.

#### 3.2 LOCATIONAL QUALIFIERS

This set of roots includes galaga 'up', yu:nu 'down', gungari 'north', guyabay 'the other side (of a river)', bamba 'a long way', ga: lungal 'in front' and so on.

These forms can occur with local (locative, allative, ablative) but not with syntactic case-inflections, e.g.

- (46) A: windingu nana gundanu / B: wandanga / A: yu:nunga snake-ERG lsg-0 bite-PERF where-LOC down-LOC
  - A snake bit me. B: Where? A: Down [there on my leg]

However, a locational qualifier can occur without any inflection, the context usually making it clear whether 'at', 'to' or 'from' is intended. An uninflected locational qualifier may occur with a nominal, which must have a local case inflection. In (47) the 'locational phrase' includes munan 'mountain', in locative case, and galaga 'up' without any inflection:

- nayba namiri / gadaragu nunilagu / (47) A: 1sg-S hungry-ABS possum-DAT hunt-PURP
  - B: wandanga / A: munanda galaga where-LOC mountain-LOC up
  - I'm hungry, and I'll hunt for possums. A:
  - Whereabouts. A: Up in the mountain.

#### TIME QUALIFIERS 3.3

A time qualifier will most frequently (although not invariably) begin a sentence. The semantics of time qualifiers is oriented to 'now'; probably the most frequent forms are gapumbul 'earlier on today' and gapu'later

today' (for a discussion of other types of temporal semantics in Australian languages see Dixon 1977a:498-9).

Time qualifiers occur most often without any inflection:

(48) ŋayba nirwaca banama lsg-S tomorrow return-IRREAL I'll return [home] tomorrow

However, words referring to a time in the future can take -gu with the meaning 'until' (note that this is identical with the dative-allative inflection on nominals); and words referring to past time appear able to take -nin 'since' (this is identical with nominal ablative). See (103) and

(49) nayba di:gibali pirwagagu I'm staying here until tomorrow

The locative inflection -nga~-da cannot, it seems, occur with 'temporal shifters' like 'yesterday' or 'later today' (words whose reference is constantly changing as time progresses), but it can be added to non-shifters, as in text 9, lines 12 and 19, and

(50) birgibaçanga nayba giduligi winter-LOC lsg-S cold-INCHO-PERF I got cold in the wintertime

And see balanunga 'moon-LOC' used for 'in the moonlight' in (4) above. In (51) the shifter pirwara occurs sentence-initially without inflection but biliginga 'at daybreak' follows the verb (note that this is the preferred position for words in locative inflection that have spatial reference):

(51) pirwa[a ŋayba gagalagu biliginga tomorrow lsg-S go-PURP daybreak-LOC I'll go at daybreak tomorrow

Words referring to temporal duration - for instance, garay 'for a long time', pamu 'for a short time', yurmay 'all the time' - cannot, for semantic reasons, take any inflection.

There is a suffix -mira 'for -- nights' which derives temporal qualifiers from number adjectives e.g.

yungul 'one' yungulmira 'for one night'
yaga 'two' yagamira 'for two nights'
gumarbari 'a lot' gumarbarimira 'for a lot of nights'

as in

(52) yagamira nayba bungilagu yala  $\mbox{ I'm going to camp here for two } \mbox{nights}$ 

Wargamay has a single temporal interrogative, wapgamira 'when'. This appears to involve the suffix-mira, but it is attached to the locational interrogative root wapga 'where' (3.4.3) (and not to mipap 'how many' as we might have expected). Unlike 'number'+mira forms, wapgamira does not specifically refer to duration, but is used to enquire about the point in time at which something happened, or will take place e.g.

- (53) wandamira ninba banalagu/ ganu 'When are you going to return home?' 'Later on today'
- (54) wangamira ginda puga gundapu/ rugulu 'When did you see him? 'Yesterday'

There is a formal-semantic similarity between -mira and the Yidin affix -m 'during -- days/nights' (which also forms a time interrogative, but in this case from 'how many?') - Dixon 1977a:201-3.

#### 3.4 PRONOUNS AND DEICTICS

3.4.1 PERSONAL PRONOUNS - FORM AND FUNCTION. We can recognise ten personal pronouns for Wargamay - singular, dual and plural numbers for first, second and third person, and an interrogative pronoun 'who' (that is not specified for number). The main forms are set out in Table 3.1.

Wargamay does not have separate forms for inclusive and exclusive varieties of non-singular pronouns. Inclusion can be shown by placing the 2sg pronoun in apposition to a 1du or 1pl form (or, presumably, 2du to 1pl) - nalininba 'you and I' appears in (4) above. Exclusion can be shown by juxtaposing a noun, or else the 3sg pronoun, to 1du or 1pl:

(55) nali bada gumbagi miganga ldu-SA dog-ABS enter-PERF camp-LOC The dog and I went into the camp

An alternative way of indicating 'me and someone else' is shown in (3).

The ten personal pronouns in Table 3.1 are not in fact semantically homogeneous. Eight of them - the first and second person forms, as well as 3du and 3pl - are strictly specified for number and can only be used with human reference (occasionally extended to include tame dogs). But what we have termed 'third person singular', puna, can refer to anything - human or non-human. Further, although its unmarked reference is to singular number it can be used for two or more things, or even for something uncountable. puna typically occurs in an NP with nominals, or with other pronouns.

An example of  $\text{\tiny Duna}$  in an NP with a nominal that has human reference is:

(56) nana wunalgani nulanga bulimandu lsg-O chase-CONTIN-UNMKD 3sg-A policeman-ERG The policeman was chasing me

and with a nominal that has non-human reference:

(57) maya nuna nalu wurbimbigi NO 3sg-SO water-ABS big-INCHO-PERF No, the water [hole] has become [too] deep [to swim in]

and with the third person plural pronoun (which always has human reference):

	intrans- itive subject [S]	trans- itive subject [A]	trans- itive object [0]	genitive	oblique stem
l sg	ŋayba		ŋapa	ŋaygu	naygun- 'I'
l du	ŋali		ŋalipa	ŋaliŋu	nalin- 'We two'
l pl	ŋana		ŋanapa	ŋanaŋu	nanan- 'We all'
2 sg	ŋinba		ŋina	ŋinu	ŋinun- 'You'
2 du	րubu		ɲubulaɲa	ɲubulaŋu	pubulan- 'You two'
2 pl	րura		ɲuraɲa	ɲuraŋu	puran- 'You all'
3 sg	nuna	nulanga	nuna	nuŋaṇu	nunan- 'He/she/it'
3 du	bula	bulangu	bulana	bulaŋu	bulan- 'They two'
3 pl	gana	danangu	danana	ganaŋu	ganan- 'They all'
Interr- ogative	ŋa:nga	ŋa:ndu	ŋa:na	ŋa:nu	ŋa:nun- 'Who'

TABLE 3.1 - Main pronominal forms

Dative-allative -gu, locative-aversive -da and ablative -ip are all added to the oblique stem.

(58) nuna gana nugigi
3sg-SO 3pl-S dance-PERF
A lot of people danced

Indeed, puga can occur with a first or second person pronoun. A common form of greeting, corresponding to English 'Hello' is ginba puga gagapu 'Oh, you've come'. (Greetings in Wargamay, as in most Australian languages, normally refer to speaker and/or addressee's motion to and from the place of encounter. There are no absolutely set forms, it being more in the nature of 'variations on a theme'. One way of saying 'goodbye' is gayba gagabali 'I must be going now'.)

The 'A form' of puga can also be used to refer to an instrument, as in (217) and

(59) nada ma: | babay / nulanga bangaydu lsg-A man-ABS spear-UNMKD 3sg-INST spear-INST I speared the man with a spear.

Note that all of the other forms in the A column of Table 3.1 are restricted to transitive subject function.

From a semantic point of view we could think of the personal pronouns (with human reference) as constituting a 3 x 3 matrix with a gap in the 3sg box. puga is then a form outside this system, ranging over all numbers and all persons (but with an unmarked sense '3sg' that does correspond to the empty box).

Deictic verbs derived from puga - transitive pugama- and intransitive pugambi- - are described in 4.9.

What we have called the 'interrogative pronoun' na:n-always has human reference, and is thus complementary to

the interrogative nominal mips that is restricted to non-human use (3.1.5).  $\eta_a$ :n- effectively ranges over the set of eight personal pronouns with human reference, and over the human nominals. It can cooccur with  $\eta_{u\eta a}$ :

(60) na:nga nuna gagay
WHO-S 3sg-SO go-UNMKD
Who's that going?

Parallel to mipabagun 'something' (3.1.5), John Tooth added -bagun (3.1.3) to a na:n- form to translate 'someone' e.g. na:nabagun 'someone-O'; but it was not possible to obtain corroboration of this.

We saw in 3.1.1 that nominals follow an 'absolutive-ergative' paradigm. One case form ('ergative') indicates transitive subject (A) function, whereas the unmarked 'absolutive' form shows intransitive subject (S) and transitive object (O). The extra-systemic pronoun, puga, inflects in the same way.

The remaining nine pronouns, however, inflect on a quite different pattern from nominals and puga. There are two subtypes - non-sg 1st and 2nd person pronouns use one form for A and S subject functions and a different form for object function. The remaining five forms - 1sg, 2sg, 3du, 3pl and interrogative - have distinct forms for the three major syntactic functions S, A and O.

Genitive pronouns can decline, the case inflection being added directly onto the forms given in Table 3.1. A genitive pronoun (and presumably also a genitive noun) functions like an adjective, and takes the normal set of nominal inflections e.g.

(61) ŋinuŋgu badaŋgu ŋaṇa guṇḍay / waga you-GEN-ERG dog-ERG lsg-O bite-UNMKD shin-ABS Your dog bit my shin

-gu forms of pronouns can have both dative and allative sense - 'he came for me', and 'he came to me'. An ablative pronoun will indicate 'motion away from', just like an ablative nominal:

(62) ninba gagaga naygunin You get away from me!

The locative-aversive forms of pronouns appear to have the range of usage available to locative-aversive nominals:

- (63) nuna ninunda gagay He passed you by
- (64) na:nunda ninba bi:nambali Who is it you're scared of?
- 3.4.2 PERSONAL PRONOUNS ANALYSIS. The non-singular first and second person pronouns show the most transparent structure, with

Roots  $1du - \eta ali$   $2du - \mu ubula$   $1p1 - \eta ana$   $2p1 - \mu ura$ 

The root alone is used for S and A functions, while O and genitive forms involve inflections identical to those on nominals:

#### Accusative (0) -pa Genitive - -nu

We can now consider 1du dative-allative nalingu, locative-aversive nalinda and ablative nalinin (and similar forms for 1pl, 2du and 2pl). If we regarded these as involving suffixes added to the root nali, the forms of the inflections would be significantly different from those on nominals - dative-allative -ngu rather than the expected -gu, locative-aversive -nda where a nominal would have -nga, and ablative -nin instead of -pip. The simplest solution is to say that the root is augmented by a stem-forming suffix -n, yielding nalin, and that nalin does take the expected allomorphs for the three oblique cases (save that the first segment of ablative -pip, which is optionally dropped after a nominal stem ending in a consonant, is obligatorily lost after a pronominal stem ending in n).

3du and 3pl show roots bula and gana which - like the 1du, 1pl, 2du and 2pl roots - occur in many other Australian languages (see Dixon 1980a:327-62). They decline on the pattern just described with one exception - the root alone is restricted to S function, and an ergative inflection - $\eta$ gu (identical to that on nominals) is brought in to mark A function.

lsg, 2sg and interrogative pronouns cannot, in the same way, be given a synchronic analysis. However, reference to comparative work on a wide range of Australian languages and reconstruction of the original singular pronominal forms for an ancestor language (Dixon 1980a:339-46) does provide a diachronic explanation. Basically, the proto-language allowed all types of monosyllables (not just monosyllables with a long vowel, like modern Wargamay). The 1sg and 2sg roots were gay and gin respectively, and these were probably used in S function; oblique cases were formed on the nominal pattern, by ergative -du (with assimilation), accusative -pa and probably genitive \*-gu. Thus:

proto-forms	${\mathcal S}$	$\boldsymbol{A}$	0	GENITIVE
lsg	ŋay	ŋay+du	ŋay+ɲa	ŋay+gu
2sg	ŋin	ŋin+du	ŋɨn+ɲa	ŋin+gu

Development to modern forms included (see also Dixon 1980a: 339-46): (i) dropping of -y- before -g- and -p-, probably to satisfy a phonotactic constraint; (ii) replacement of final -u by -a in the A forms; this is a change that has occurred in many Australian languages, its isogloss almost coinciding with the change \*u>a in the past tense inflection \*-pu; (iii) augmentation of S forms by -ba, when phonotactic constraints shifted so that monosyllabic roots which involved only short vowels were proscribed; (iv) simplification of 2sg accusative pin+pa>pina; one example of -np- is known for modern Wargamay but this cluster is not a popular one; (v) dropping of -g- from the 2sg genitive pin+gu; this cannot be explained, although it does appear to relate to pa:n+gu>pa:nu in the interrogative pronoun.

Comparative work also suggests an original interrogative root  $*_0$ a:n-, which inflected on the same pattern as 1sg and 2sg pronouns (Dixon 1980a:372-4). There are two important differences: the change of final u to a in A

forms has not applied to  $\eta a:ndu$ ; and the final syllable of the S form  $\eta a:nga$  is -ga, against -ba for 1sg and 2sg. (No explanation is known for this -ga.)

Finally, we can consider the ubiquitous 'third person singular' pronoun. Most of the forms of this pronoun are most similar to those of non-sg pronouns, with genitive involving the addition of -qu to the root puga and other oblique inflections being based on a stem pugan. Note, however, that the root covers S and O functions, whereas the roots of non-sg 1st and 2nd person pronouns cover S and A functions.

Comparative reconstruction suggests an original 3sg form \*puin a distant proto-language, with A form \*pulu. This form is found in a number of eastern languages, and in others the final vowel has shifted to a, giving 3sg A pula (see Dixon 1980a:356-62). It is possible that Wargamay 3sg A form pulanga relates to pula (which is the 3sg form for both A and S functions in Warunu) plus ergative -ngu, with the shift from final u to a having applied a second time. This is, however, a fairly speculative hypothesis. (Further work may conceivably show that the Wargamay 3sg root puna is also related to an original \*pu.)

In sum, leaving aside the A form, it will be seen that  $3 \log \beta \log \alpha$  inflects on a nominal pattern, save that dativeallative, locative-aversive and ablative are based on a stem derived from the root by the addition of -n, and not directly on the root.

Wargamay first and second person pronouns are almost identical to those of Giramay and of Nyawaygi. The only differences are (a) 2du has root pubula in Wargamay and Nyawaygi but pubila in Giramay; (b) genitive is just -qu in Wargamay and Nyawaygi whereas Giramay has -qu after disyllabic and -nu after trisyllabic stems; (c) dative of nonsingulars is based on the accusative form in Giramay (just as dative of non-singulars is based on genitive) but on the root in Wargamay and Nyawaygi (and also in the northerly dialects of Dyirbal); (d) Nyawaygi has distinct inclusive forms of 1du and 1pl (involving an increment to qali and qana, which are here the exclusive forms), unlike Wargamay and Nyawaygi.

In Giramay bula functions both as the 3du pronoun and as the number adjective 'two'. Wargamay and Nyawaygi restrict bula to pronominal function and have yaga for 'two'. bula and yaga can cooccur in an NP in Wargamay, to stress that exactly two people are involved:

- (65) yaga bula ma: I bimbirigi The two men had run away (Text 5.18).
- 3.4.3 LOCAL FORMS. There are two deictics 'here' (near speaker) and 'there' (distant from speaker) that have allative, locative and ablative forms, parallel to the local cases of nominals. These are shown in table 3.2, together with the interrogative deictic 'where'.

Morphologically this is a highly unusual pattern. Most languages - in Australia and elsewhere - would have roots for 'here' and 'there' with affixes for allative, locative and ablative (locative often having zero realisation). This is what is found with the interrogative in Wargamay - alla-

${f TABLE}$	3.2	-	Deictic	paradigm
-------------	-----	---	---------	----------

	allative	locative	ablative
'here'	nagu	yala	yalan
'there'	nagunga	yalanga	yalanan
'where'	wangagu	wanganga	wangan

tive -gu, locative -nga and ablative -n are added to the root wanga. But with the non-interrogatives we have suppletive forms pagu 'to here' and yala 'at here' from which 'there' deictics are obtained by adding -nga. Ablative involves the addition of -n to the locative (with the -nga- in yalanga being simplified to -na- in yalanga). That is, we would expect one root for each row in Table 3.2, with inflections distinguishing the columns; but we find that suffixes derive some of the forms in the second row from corresponding forms in the first row.

These forms are very common in Wargamay and there is no doubt as to the correctness of Table 3.2. Equivalences with Giramay (which has a more usual system - Dixon 1972:57) were given by informants as a further check. Thus (G = Giramay):

A deictic will typically cooccur with a nominal, with which it must agree in case - an example was given at (11) above.

There is a further set of deictics that appear to have aversive function; they involve -ga, the regular locative-aversive allomorph after -p, added to the ablative form -yalanga, yalanganga, wanganga. Thus, in a text about early massacres, Lambert Cocky said:

- (66) nayba bimbirigi/ yalanda bulimanda / dulgingu lsg-S run-PERF HERE-ABL-AVERS policeman-AVERS scrub-ALL I ran away, from the policeman here, into the scrub (Text 7.1)
- Note also
- (67) wandanda ninba bi: [ambigi Where did you get frightened of? (i.e. What place were you frightened of?)

The time interrogative wangamira 'when' appears to be based on the root wanga - see 3.3.

3.4.4 DEMONSTRATIVES. There are two demonstratives in Wargamay:

nunga 'this one (near speaker)'
nungadi 'that one (distant from speaker)'

Each has a single form and can be used only in S or O function. (When I tried to obtain these in A form, the informants insisted that one could only use pulanga, the A form of the 3sg pronoun - 3.4.1).

A demonstrative can be used - alone or in an NP with a nominal - for deictic reference to any kind of person, ob-

ject or place. Thus, John Tooth was eating a mango during one elicitation session and then said, holding out the stone:

(68) nunga mayngu nada dulbambagu/ mamu yu:[ilagu
THIS mango-ABS lsg-A bury-PURP by-and-by grow up-PURP
I'm going to bury this mango [stone], so that by-and-by
it'll grow [into a mango tree]

Other examples include

(69) punga bada walmbari This dog's barking

A demonstrative can occur in an NP with a 3du or 3pl pronoun e.g.

(70) nungadi dana/nalunga yugarabali
THAT 3pl-S water-LOC swim-CONTIN-UNMKD
All those people are swimming in the water

or even with a first person pronoun - line 13 of text 7. Note also that pungadi mida was given as the translation of Giramay balabawal mida 'camp over there' (cf Dixon 1972:44-5, 48).

#### 3.5 VERBS

3.5.1 PARADIGM IN W. DIALECT. A verb in Wargamay involves an obligatory root and inflection. Between these may occur one (or more) of a set of derivational affixes, i.e.

Root (+ Derivational affix(es)) + Inflection

There are two conjugational patterns, depending on whether the construction in which the verb occurs is transitive or intransitive. These are shown in Table 3.3.

Table 3.3, in fact, deals with just the W dialect. Differences found in B are given in 3.5.3.

The continuative allomorph -bali, added to an intransitive root, derives an intransitive stem that again takes inflections from the first column. Continuative form -lgani is added to transitive roots and derives transitive stems, taking inflectional allomorphs from the second column. Comitative -mais added to intransitive roots and derives a transitive stem, taking an inflection from the right-hand column. Instrumental -ma effectively derives a ditransitive from a transitive form; this still takes transitive inflections.

The only morphological alternation that is not fully determined by transitivity concerns positive imperative. With intransitives this is simply -ga, but with transitive stems it is -ya after a disyllabic root ending in -i but - $\phi$  in all other cases (that is, after a trisyllabic stem ending in -i, or after any stem ending in -a).

The Yotic Deletion Rule -iy+i/-# (2.6) plays an important role in verbal morphology. One effect of this rule is that the most frequent inflection, that we are calling 'unmarked aspect', is realised as -y after a but as  $\phi$  after i; thus:

Conjugation:	Intransitive	Transitive
Inflections:		
Positive imperative	<del>-</del> ga	-ya~-⊅
Negative imperative	-ga	- I ga
Irrealis	-ma	-lma
Purposive	-lagu	-gu
Perfect	-gi	-nu
Unmarked aspect	<b>-</b> y	<b>-</b> y
Subordinate	-nu	<b>–</b> ɲu
Derivations - transitivi	ty-preserving	
Continuative	-bali-	-Igani-
Derivations - transitivity	y-changing	
Comitative	-ma -	
Instrumental		-ma-

TABLE 3.3 - Verbal suffixes in W dialect

Root	+unmarked	+perfect	+continuative	+continuative
	inflection	inflection	+unmarked	+perfect
intr { wirga 'bat wa: di 'lau	he' wirgay	wirgagi	wiŗgabali	wiçabaligi
	ngh' wa:gi	wa:gigi	wa:ģibali	wa:ḍibaligi
$tr = \begin{cases}  ext{ gunda 'see} \\  ext{ balmbi 'sm} \end{cases}$	e' ŋunday	ŋundaɲu	ŋundalgani	ŋundalganiɲu
	mell'balmbi	balmbiɲu	balmbilgani	balmbilganiɲu

In the case of transitive trisyllabic stems ending in -i, positive imperative thus falls together with the unmarked inflection, both being just the stem.

Sporadic syllable dropping from purposive -lagu (to give -gu), with some intransitive stems, all of them trisyllabic, is detailed in 3.5.4.

It will be noted that -pu occurs twice in the transitive column of Table 3.3. That is, perfect and subordinate inflections, which are distinct in the case of intransitive verbs, fall together on transitives i.e.

	intransitive	transitive
perfect	-gi	} -nu
subordinate	-pu	), ·u

In most Australian languages -pu (or some reflex of \*-pu) marks past tense; this would be closest in meaning to perfective -pu in Wargamay. (Note that in Dyirbal the relative clause inflection on verbs, -pu, appears to be taking on a perfective meaning - Dixon 1972:104).

Detailed discussion and exemplification of the inflectional and derivational suffixes is in 3.5.4-6.

There is in Wargamay just one irregular verb <code>gi:gi-'tosit'</code>. In the W dialect it behaves as a regular intransitive root with the following exceptions:

(i) positive imperative was consistently given as di:giya by John Tooth, but as the expected di:giga by Lambert Cocky;

(ii) the -gi- of the stem may optionally drop before continuative -bali. That is, gi:gibali- alternates with gi:bali- (see 2.6); gi:bali is the most frequent form before non-zero inflections e.g. gi:baliga, and gi:gibali is preferred with the

unmarked inflection, which is  $\phi$  after a stem ending in i. The paradigm of digi in W, and in Biyav, is in 3.5.3.

- 3.5.2 CONJUGATIONAL SETS. Verbal roots in Wargamay fall into two, mutually exclusive, sets:
- [a] Intransitive e.g. gaga 'go, come', banma 'talk', wa:gi 'laugh'. These can only take the 'intransitive allomorphs', from the first column of Table 3.3. They occur only in intransitive constructions, that is, with an S NP (they cannot occur with a nominal in ergative, or with a pronoun or nominal in accusative case).
- [b] the other set can be termed 'transitive' it includes bu:di 'take, bring', muga 'eat', nunda 'see' and so on. Roots in this class can occur either in transitive constructions (with A and O NPs) and then take allomorphs from the transitive column of Table 3.3, or in intransitive constructions (with just an S NP) and then take suffixes from the intransitive column. Thus we can have both (with English translations exactly as given by informants):
- (71) nada ma: | nundalgani I'm looking at the man
- (72) nayba nundabali (ma:Indu) I'm having a look (at the man)

The syntactic consequences of this 'double transitivity' behaviour of what we have termed 'transitive roots' is dealt with in 4.2, while chapter 5 puts forward a hypothesis about the diachronic development of this feature of present-day Wargamay. In the surrounding languages each root is (with very few exceptions) strictly specified for conjugation and also for transitivity; the parameters of conjugation and transitivity do not coincide in any of Wargamay's neighbours (or, indeed, in languages from other parts of Australia - Dixon 1980a:378-430).

Note that although all 'transitive roots' can occur in intransitive constructions they are always more frequently encountered in transitive function - the circumstances in which a 'transitive root' is likely to occur in an intransitive construction are discussed in 4.2, 5.3.

Roots in the 'intransitive set' in Wargamay are definitely restricted to intransitive inflections, and occurrence in intransitive constructions. That is, we can have

(73) nayba wa:dibali I'm laughing

but not \*naga ma: | wa: gilgani. Transitive stems can be derived from intransitive roots, but this process is always morphologically marked by the comitative suffix -ma. Thus:

(74) nada ma: I wa: dimalgani I'm laughing at the man

Examination of Table 3.3 shows that transitive negative imperative and irrealis allomorphs are identical to the intransitive forms save for an initial -I. This affix-initial -I also occurs in the derivational form -Igani (and in the transitive allomorph -Iani of the continuative in the B dialect - 3.5.3). We can regard the -I- as constituting a distinct 'conjugation marker' morpheme that intrudes between a transitive stem and these four suffixes. It is certainly appropriate to do this in other Australian langu-

ages, where the conjugation marker appears before almost all verbal suffixes (Yidin is a very clear example - Dixon 1980a:382-99, 1977a:207). In Wargamay -I- is more restricted in occurrence, so that although we do prefer to recognise it as a separate morpheme the decision is a fairly marginal one. In contrast, the intransitive column can be said to have zero conjugation marker. (The -I- in -lagu, the intransitive allomorph of purposive, is probably derived from the transitive conjugation marker -I-, through a process of diachronic reanalysis - see 5.3.)

Of the 140 verbal roots in my corpus just one-third belong to the intransitive set, and are restricted to intransitive function. The remaining two-thirds belong to the 'transitive set', and can function either transitively or intransitively.

Verb roots all end in -a or -i, never in -u. It is probably significant (within the context of a comparative study of the development of conjugational systems in the Australian language family) that 56% of the intransitive roots end in -i, whereas only 24% of the transitive set do.

There are no monosyllabic verb roots in the W dialect (di:- in B is discussed in 3.5.3). Two roots in the corpus are quadrisyllabic, 30 are trisyllabic and the remainder disyllabic. 14 of the trisyllabics are intransitive, and 16 out of the 30 end in -i.

Dyirbal has just a few verbal roots ending in -u, all of them in the predominantly transitive -I conjugation. There are two cognates in Wargamay:

Dyirbal baygu-I 'shake, wave, bash' Wargamay bayguri buybu-I 'spit at' buybu[i 'make "raspberry" at'

In each case Wargamay has a trisyllabic root. There are altogether ten trisyllabic verbal roots in Wargamay whose third syllable is -ri-, like bayguri (but there are no further examples of a third syllable -ci-, as in buybuci, a verb form which is probably onomatopoeically based). is possible (but of course by no means certain) that what was originally a productive affix -ri has been incorporated into some modern root-forms, and that it is this which has helped to eliminate verbal roots ending in -u. (There is no affix -ri in present-day Wargamay. The Dyirbal reflexive -rí~-yirí~-mári is not a likely candidate since it always derives intransitive stems; of the -ri-final roots in Wargamay only half are intransitive. Similar remarks apply in the case of the verbal comitative/instrumental suffix -ri in Warunu; this always derives transitive stems -Tsunoda 1974). An alternative hypothesis would be that no earlier stage of Wargamay allowed verbs to end in -u, and that Dyirbal originally had roots bayguri and buyburi with the modern forms being obtained by elision of the final syllable.

3.5.3 DIFFERENCES IN BIYAY DIALECT. Verbs in B are almost identical to those in W. Although the following differences are minor, they are crucial to an investigation of the historical developments that have led to the verb systems

TABLE 3.	4 –	The	irregular	verb	'to	sit'	in	W	and	В
----------	-----	-----	-----------	------	-----	------	----	---	-----	---

	W dialect	B dialect
positive imperative negative imperative irrealis purposive perfect unmarked aspect subordinate continuative stem comitative stem	di:giga~di:giya di:gida di:gima di:gilagu di:gigi di:gi di:gipu di:(gi)bali- di:gima-	<pre>gi:ga     ?     di:gima     di:gigu  } di:gi  di:ginu     di:gani-     ?</pre>

of modern dialects (5.3). Differences from W are:

[i] B has, like Nyawaygi but unlike W, a reciprocal derivational suffix -ba. This is discussed in 4.5 below.

[ii] The continuative derivational suffix is -ni in the intransitive and -land in the transitive column. Thus:

			continuative+unmarked			
	root		W dialect	B dialect		
intransitive	wi <sub>[ga-</sub>	'bathe'	wigga+bali	wi <sub>C</sub> ga+ni		
transitive	ŋunda	'see'	ŋunda+lgani	ŋunda+lani		

It may be that the B continuative goes back to \*-gani, with developments \*-gani>-ni in the intransitive and \*-I+gani>-lani in the transitive column. (Note that -gani- 'do repeatedly' is a verbal derivational affix in Dyirbal, occurring there with verbs from both conjugations - Dixon 1972:248.) The full form -Igani is maintained for transitive verbs in W; no origin is known for the intransitive W allomorph -bali.

[iii] The *irregular verb* 'to sit' has a rather different paradigm in B. Whereas in W the root can be taken as gi:gi-, in B the root appears to be basically just gi:-. This is the only monosyllabic verb root in the language; but note that it must take an inflection that is at least one syllable long, so that each verb word has at least two syllables. (The twelve nominals and a particle that actually form monosyllabic words were listed in 2.2.)

The paradigm of 'to sit' in the two dialects is shown in Table 3.4.

In the right-hand column positive imperative and perfect/unmarked appear to involve the regular inflections -ga and -gi added to root gi:-. Other inflections are added to these forms. Thus, irrealis -ma and purposive -gu (not -lagu, the regular intransitive allomorph) are added to gi:gi-, while continuative -ni is based on gi:ga. (Negative imperative and comitative forms were not obtained from Nora Boyd, the only B informant, before her death in 1976).

We remarked that -ni, the continuative suffix in B, may be related to -gani, the transitive allomorph in W. The form di:gani, which could be analysed as di:+gani, might be thought to provide support for this position. But it is not the strongest type of support, since the paradigm of di:- is highly irregular, and di:ga is an independently motivated

form within it.

[iv] In B the positive imperative inflection on intransitive verbs is -ga, exactly as in W. In the case of verbs functioning transitively B has  $-\phi$  for the positive imperative on stems ending in -a, again exactly like W. With transitive stems ending in -i, however, the inflections are quite different. Whereas W has -ya with a disyllabic and  $-\phi$  with a trisyllabic root, B has  $-\phi$  with a disyllabic root and in the case of trisyllabics it substitutes -a for the stem-final -i. Thus

			positive		positive
	root		imperative in	W in	nperative in B
intransitive	gaga wa:gi migiri	'go' 'laugh' 'wait'		gagaga wa:dig midiri	ga
transitive	ŋunda bu:di wagiri	'see' 'take' 'overturn'	bu:diya wagiri	ŋunda	bu:di wagira

There are in addition just two disyllabic transitive verbs - in B only - that replace final -i by -a in the positive imperative:

root positive imperative
ma:ni 'hold in hand' W ma:niya B ma:na
wuqi 'give' W wuqiya B wuqa

We can suggest that originally all -i-final transitive stems took positive imperative -ya. The affix was dropped from trisyllabic stems in W, while in B the change:

---i + ya > ----a
root inflection

took place. With disyllabics -ya was retained in W but dropped in B.

The two odd disyllabics that undergo a vowel change can be explained historically. Some Australian languages (including Nyawaygi) have a few monosyllabic verbs, normally including ( $\eta u$ -~) wu-'give' and ma:- 'hold in the hand'; these typically have imperatives wuga and ma:na and tense forms wugi, ma:ni (a full discussion is in Dixon 1980a:382-430). It is likely that a recent ancestor of Wargamay had these monosyllabic verbs, and that they have - in the modern language - been reanalysed as having disyllabic roots; but the original imperative form is maintained in B and now correlates well with the -i\rightarrow-a rule for trisyllabic imperatives.

We could suggest that in B the root of 'to sit' is simply di:gi (as in W) and that positive imperative di:ga is formed by the type of process just dealt with. But there are other oddities in the paradigm of 'to sit' in B (purposive di:gigu rather than di:gilagu, and continuative di:gani-) so that there is still need for an ad hoc analysis of this verb in terms of a root di:-. (It is very probable that di:-is the last of a number of original monosyllabic verb roots in Wargamay which have been reanalysed as having disyllabic roots. This diachronic change, with di:gi- taking over from

gi:-, is all but complete in W - although the alternation gi:gibali~gi:bali in the continuative stem may show a relic of the original root gi:- - but has only proceeded part-way in B.)

[v] Finally, B differs from W in the association of conjugation with transitivity.

Dyirbal is typical of surrounding languages in that it has two conjugation classes, there being a statistical correlation - but far from an exact coincidence - with transitivity classes; the -y conjugation in Dyirbal has about 80% intransitive members and the -I conjugation around 80% transitive members. A major point of interest concerning the W dialect of Wargamay is that conjugation exactly coincides with transitivity. Comparing the verbs cognate between the two languages we find that all the intransitive members of the -y conjugation in Dyirbal do, of course, fall into the 'intransitive set' in W; and the transitive members of the Dyirbal -I conjugation are in the 'transitive set' in W. But there are also two or three verbs common to the two languages that, although intransitive, are members of the -1 conjugation in Dyirbal; in W these receive intransitive inflectional allomorphs. This can be illustrated with a sample inflection (purposive) of representative verbs in each language (conjugational membership in Dyirbal is shown by -y or -I suffixed to the stem; the purposive inflection in Dyirbal is -ygu onto a stem of the -y conjugation and -li onto a form from the -l class):

## 

			roc	ot	purposive
<b>-</b> y	conjugation	(intransitive)	wula-y	'vanish'	wula+ygu
, .		(intransitive)	bungi-l	'lie down'	bungi+li
-1	conjugation	(intransitive) (transitive)	giga-l	'tell to do'	giga+li

It looks from this as if W has reanalysed conjugational membership to coincide exactly with transitivity subclasses. That is, the 'exceptions' like bungi-I have been transferred to the class with which their transitivity value has the strongest connection.

However, this has not happened in the B dialect. Here the intransitive root bungi takes only allomorphs from the transitive column of Table 3.3. Sample forms in the two dialects are:

	W dialect	B dialect
positive imperative	bungi+ga	bungi
purposive	bungi+lagu	bungi+gu
irrealis	bungi+ma	bungi+lma

Note, however, that John Tooth consistently gave bungi+ya as the positive imperative, parallel to his gi:giya 'sit-IMP' mentioned earlier; Lambert Cocky gave bungiga and gi:giga.

The slender evidence available suggests that two other

intransitive verbs take allomorphs from the 'transitive' column in B (but regular intransitive allomorphs in W); these are ga:nda- 'crawl' and wala- 'ascend'; there are no cognates in Dyirbal. The only other verbs which are intransitive members of the -I conjugation in Dyirbal and also occur in Wargamay are Dyirbal walnga-I, W walnga- 'float' and Dyirbal galba-I, W ga:lba- 'be stuck'. These occur only with the unmarked inflection in the limited B corpus; they take normal intransitive inflections in W (except that the irrealis form ga:lbalma, rather than expected ga:lbama, was once given by John Tooth; the other forms he gave were regular intransitive ga:lbabali and ga:lbagi, besides ga:lbay).

The inchoative verbaliser, deriving intransitive verbal stems from nominals etc (4.9.1) is -mbi~-bi~-i in Wargamay, surely cognate with the corresponding suffix -bi-I in Dyirbal. This belongs to the -I conjugation in Dyirbal, although it does form intransitive stems. However, the inchoative suffix takes only intransitive allomorphs in Wargamay, in both W and B dialects (Nora Boyd gave danu-mbi-gi 'broken' and maguI-i-gi 'worked', for instance). It seems that that reassignment of original -I-conjugation intransitive forms to the intransitive class probably commenced with this derivational affix, which now belongs in the intransitive set in both W and B; but for lexical verbs such as bungi- 'lie down' the reassignment has thus far taken place only in the W dialect.

It has already been stressed that what we are calling 'transitive roots' in W and B can occur with either transitive inflection (corresponding to -| conjugation endings in Dyirbal) or with intransitive inflection (corresponding to Dyirbal -y conjugation allomorphs), depending on the type of construction in which the verb is functioning. Most transitive verbs cognate between the two languages belong to the -I conjugation in Dyirbal, but there are a few verbs such as dalgi-'cook' - that are in the Dyirbal -y class. There has plainly been a shift here too. A verb like dalgi- would originally have occurred only in transitive constructions, and would then have taken inflections from the first column of Table 3.3. It now takes endings from the right-hand column of Table 3.3 in transitive sentences, and when it takes endings from the left-hand column it is functioning in intransitive constructions. (A full account of the diachronic changes that can be surmised to have taken place in the development of the modern Wargamay verb system - which are presupposed by the comments above - is in chapter 5.)

3.5.4 INFLECTIONS. We will now take the seven inflections in turn, describing their form and function.

```
[1] Positive imperative. intransitive -ga transitive on stems ending in -a, \phi on disyllabics ending in -i, -ya W, \phi B on trisyllabics ending in -i, \phi W, -a B (where this -a replaces the stem-final vowel i.e. V_1V_2 \rightarrow V_2)
```

The irregular forms of the imperative for gi:(gi)-, ma:ni-wugi-, and bungi- were described in 3.5.1, 3.5.3.

The function of imperatives follows the pattern of most other Australian languages. The (A or S) subject is normally a singular, dual or plural second person pronoun, which can freely be omitted - see (9), (11), (35), (62), (82), (85). One example has been recorded in which the subject of an imperative is a 1du pronoun (implied: inclusive):

- (75) nali bari burmbiya nalugu ldu-SA stone-ABS throw-IMP water-ALL We must throw the stone into the water
- [2] Negative imperative. This construction is the same as positive imperative but for the obligatory inclusion of particle garu 'don't' before the verb, and the use of inflections

intransitive -da
transitive -lda

Examples are at (83-4) and (166) below.

[3] Purposive.

intransitive -lagu
transitive -gu

The intransitive allomorph is occasionally shortened to -gu after trisyllabic stems. The only examples that have been remarked are guwara+gu 'stand-PURP', bandali+gu 'burst-PURP', magul+i+gu 'work-INCHO-PURP' and gi:+bali+gu 'sit-CONTIN-PURP' (see (37)). However, when elicitation was directed to these words the informants gave guwara+lagu, magul+i+lagu etc as the 'correct' forms. It seems that this sporadic elision of -la (after -ra- or -li-) is an instance of the haplologic-type syllable omission that occurs at a number of places in the grammar of Wargamay (2.6). The truncation of -lagu to -gu has only been encountered on a basically intransitive root, never with a 'transitive stem' used intransitively (if it did happen in the latter case it would obscure the difference between intransitive and transitive variants of purposive with roots from the 'transitive set').

Purposive has an important syntactic function, marking an 'in order to' complement clause - see 4.3.2-3. But purposive inflection can also occur in a main clause (that is, in the first clause of a discourse) and then indicates necessity - that the subject wants to or has to undertake some action. See (4), (51-3), (68) and:

- (76) ninba wagunda birbalagu gulgaranga 2sg-S wood-LOC jump-PURP log-LOC You'll have to jump over the log
- (77) nayba gagalagu magulgu lsg-S go-PURP work-DAT I want to go for work
- (78) mamu nayba guwaragu by-and-by 1sg-S stand-PURP I'll stand up by-and-by

(79) naga nina bu:digu mamu / ninba migirilagu naygungu /
lsg-A 2sg-O take-PURP by-and-by 2sg-S wait-PURP lsg-DAT
magulgu
work-DAT

I'll take you by-and-by. You should wait for me (and I'll take you) for work.

Purposive can also be used to indicate ability, as in (7). [4] Irrealis.

intransitive -ma
transitive -lma

This inflection can be used on the verb in a main clause for unmarked reference to the 'future' e.g. (48), (230) and:

- (80) Q nubula bulgudaman wandamira gagama 2du-SA wife-daman WHEN go-IRREAL When are you and your wife going?
  - A nirwara nali gagama We'll go tomorrow
- (81) nayba na: walama
  lsg-S NOT ascend-IRREAL
  I'm not climbing (any more, because I'm tired)

It is also, with an 'apprehensional' sense, used to refer to something unpleasant that might happen; a -ma clause is then often subordinated to a main clause (which will typically be in positive or negative imperative - or in the unmarked - inflection), indicating action that should be taken to avoid this unpleasant possibility e.g. (125) and

- (82) ninba mu: rambiga / bulimandu nundalma 2sg-S hidden-INCHO-IMP policeman-ERG see-IRREAL You hide, lest the policeman see (you)!
- (83) naru gilwalga / ba:dima
  DON'T kick-NEG IMP cry-IRREAL
  Don't kick (him) lest (he) cry!
- (84) naygu bundurun naru ma:nilda / nibungu nina lsg-GEN-ABS bag-ABS DON'T touch-NEG IMP nibu-ERG 2sg-O gundalma bite-IRREAL

Don't touch my bag, or the Nyibu (a 'mythical spider', who is supposed to punish some types of wrongdoing) might bite you!

Note that if there is an NP common to main and subordinate clauses, and if it is in O or S function in each clause, it can be deleted from the second clause, as in (82), (83) and (125).

A verb in irrealis inflection can be used to explain why an instruction is not followed:

(85) A: ginda ganba / B: maya gana gundalma ginda ginda

See also text 8, line 6 and text 9 line 3. There is a close semantic connection between this sense of irrealis and the aversive nominal inflection - 3.1.1, 3.1.5.

Dyirbal and Yidin each has a verbal suffix that has an exclusively 'unpleasant' meaning - corresponding to (82-5) here. (The forms are -bila~-ba in Dyirbal and -di in Yidin -Dixon 1972:112-3, 1977a:350-7.) Wargamay -ma~-|ma refers to 'something that might happen and should be avoided' in more than half its occurrences, but it can also have a straightforward predictive function, as in (48) and (80-1) and it is in view of this that we name it 'irrealis'. (For the corresponding suffix, -ma, in Nyawaygi the straightforward future meaning is rather more frequent than the 'undesirable' It appears that there is a gradual shift in the semantic effect of this category as one proceeds south from Yidin and Dyirbal through Wargamay to Nyawaygi.)

Any action in the future must be referred to by one of the four verbal inflections we have described thus far. Commands and instructions involve the positive or negative imperative. An action that the subject is likely to have volitional control over will be shown by purposive inflection - something he wants to do, or has to do to fulfil some social obligation or physiological need. An action that is outside the sphere of control of the subject - something that just 'might happen', a simple prediction - is shown by irrealis.

There appears to be some overlap of meaning between purposive and irrealis. Thus, the English sentence 'I'll go by-and-by' could be rendered by either of

- mamu ŋayba gagalagu
- (87) mamu nayba gagama

But there can be a difference in meaning between these two sentences: (86) could indicate that the speaker has a reason for going soon, whereas (87) would suggest that he might take it into his head to depart, although there is no real need to.

[5] Perfect.

intransitive -gi transitive -pu

This inflection indicates that some action is irretrievably finished. Thus gagay - unmarked inflection on gaga 'go' - can be used to indicate that someone has gone away; in contrast, the perfect gagagi suggests that he has gone away for good (with the implication that he may never return). There is a tendency for verbs in perfect inflection to be referring to an event in the distant past (a few days or longer ago) but this is not necessarily the case.

Note the contrast between a shout of discovery (involving unmarked inflection on the verb):

- nada nunga baygi daymbay I've found this bag and a narrative recounting a past discovery (with perfect inflection):
- (89) qu:nara daymbanu nunga baygi [I] found this bag a long time ago

The meaning of a perfect form can often be brought out

by comparison with a continuative (in unmarked inflection) e.g.

- (90) wagun gandabali
   wood-ABS burn-CONTIN-UNMKD
   The wood is burning
- (91) nuna miga gandagi 3sg-SO camp-ABS burn-PERF The camp has all burnt up

and see (101-2) below.

Perfect inflection is frequently used with non-durative verbs e.g. bi[bagi 'jumped (with fright)', dagigi 'fell down', wulagi 'died'. However, it can also be used with durative verbs, as in (91).

Sequence of actions can be shown by the use of perfect, in conjunction with unmarked inflection. Thus, in

(92) bulimandu nana wunay / nayba bimbirigi policeman-ERG lsg-O search-UNMKD lsg-S run-PERF The policeman searched for me; but I had run away.

the speaker indicates that he had left a given locality before the policeman commenced to search for him there.

As a final illustration, an informant gave for ma:ni,in unmarked inflection, the gloss 'I grab something, catch hold of it' but for the perfect ma:nipu he gave 'I bought it up', plainly showing that the action is finished.

[6] Unmarked aspect, has realisation -y with all verbs (the -y being eliminated after i by the yotic deletion rule, 2.6).

This is the most frequent verbal inflection in Wargamay and can most simply be described as complementary to the four 'future' possiblities (imperatives, purposive and irrealis) and to perfect. It can, in addition, be used where any of the three non-imperative and non-subordinate inflections are possible e.g. 'he died' could be either nuna wulagi or nuna wulay, and 'I'll go' might be nayba gagama, nayba gagalagu or just nayba gagay.

It will be noticed that Wargamay does not have anything that could be referred to as a tense system. It is, instead, possible to make a positive aspectual or modal specification by use of perfect, irrealis, purposive, etc inflections. But if this is not considered necessary, or if none of these choices would be appropriate (e.g. for an action begun in the past and continuing into the present) then the verb is suffixed by the 'unmarked aspect' -y. (Wargamay does, of course, have lexical time qualifiers, for explicit reference to points in the past and future, or to the present - 3.3.)

Verbs in -y inflection can refer to past, present or future time:

- (93) gapumbul nayba gagay earlier on today lsg-S go-UNMKD I went earlier on today.
- (94) pirwaca nayba nagumbi tomorrow lsg-S HERE-INCHO-UNMKD

I'11 come tomorrow

An example of present time reference is (60) above.

-y is the normal inflection for narratives - see texts 5-9.

- [7] Subordinate -pu. This suffix marks the verb in a relative clause. A full discussion of its syntactic possibilities is in 4.4.
- 3.5.5 TRANSITIVITY-PRESERVING DERIVATIONAL SUFFIXES. There is one frequent and well-attested transitivity-preserving suffix the continuative. Two other affixes, -Iga- and -yandi, that have only been encountered in a handful of examples, are mentioned under [2], [3] below.
- [1] Continuative.

intransitive -bali W -ni B transitive -lgani W, -lani B

This is a very common suffix, being followed in the overwhelming majority of cases by the unmarked inflection (realised as zero after stem-final -i). -bali~-lgani etc then indicates either that an action is now taking place and has a fair duration ('present continuous') or that the subject typically performs this action ('habitual') e.g. (49), (70) and

- (95) nayba nalunga duwarabali/ I'm standing in the water.
  nalu gidul The water's cold.
- (96) minagu nuna nagaram guyibali what-DAT 3sg-SO small-ABS cry-CONTIN-UNMKD What is the child crying for?
- (97) gadan di:dindu mudalgani grass-ABS wallaby-ERG eat-CONTIN-UNMKD Wallabies eat grass
- (98) nulanga naygu mugalgani He [always] eats my [food]

See also (182) below. And note that yaraman bimbirini 'horse-ABS run-CONTIN-UNMKD' was translated as 'that's a fast horse'.

The contrast between a verb with the continuative suffix and one without is brought out by an informant's translations for:

- (99) pulanga napa nundalgani 'He stand there one place watching me'
- (100) nulanga nana nunday 'He only just seen me there, he went away'

An important contrast is between continuative (plus unmarked inflection) and perfect inflection, as in (90-1) and:

- (101) maya nayba na: buyabali No, I don't smoke
- (102) maya ŋayba ŋa: buyagi No, I never smoked

-bali~-lgani etc can refer to an action performed a number of times in quick succession e.g. minbalgani 'hit and hit and hit and hit...' It can also be used to indicate an habitual association of actions. Thus, in Text 7, Lambert

Cocky tells how about the turn of the century his tribesmen were hunted and shot at by the 'native police'. He uses a series of verbs, all in the continuative form - a black tracker would show (milbalgani) the policeman the tracks of the Wargamaygan, the policeman would follow (nanbalgani) them, and then shoot (bundalgani) at the Aborigines.

A verb with continuative plus unmarked inflection can refer to the present, the past or the future. Thus puga wugabali was normally glossed 'He's walking about now' but an informant pointed out that it could refer to a person who was going to set out soon (and could be specified more exactly by insertion of an appropriate time qualifier - 3.3).

Although continuative is normally followed by the unmarked inflection it can take the full range of verbal inflections. It is followed by purposive in (37), by imperative in (103) and by perfect in (104):

- (103) di:baliga yalanga mamugu sit-CONTIN-IMP THERE by-and-by-UNTIL Sit down there for a while!
- (104) minagu ginda gundalganinu gulmbugu
  WHAT-DAT 2sg-A see-CONTIN-PERF woman-ABS
  Why did you keep on watching that woman? [A wife berating her husband]

Examples of -bali~-Igani etc with the subordinate inflection are in (186) and (189) of 4.4. No non-zero inflections were recorded following B -ni~-lani in the limited corpus obtained from Nora Boyd.

[2] -Iga. In Text 7 (lines 8 and 15) Lambert Cocky twice said wuna-Iga-y, suffixing -Iga- to the transitive root wuna 'chase'. He explained that it meant 'chase a lot of people' (thus corresponding in meaning to the verbal affix -da-in Dyirbal - Dixon 1972:249-50). However when the text was replayed he seemed to prefer wunalgani over wunalday.

Other informants were not happy with -lda- as a Warga-may suffix, and gave instead -bali~-lgani etc forms. When elicitation was directed to this point Lambert Cocky did give wunaldalgani pulanga bulimandu 'The policemen are chasing [Aborigines] all the time', involving -lda- and -lgani-; but he did not use -lda spontaneously on any other occasion.

- -Iga- may be an intrusion from Giramay or, speculatively, a derivational affix that was used in the now-extinct Hinchinbrook Biyay dialect.
- [3] -yandi. In the texts recorded by La Mont West Jr from Jimmy Johnson (1.6) there are half-a-dozen occurrences of a verbal affix -yandi-; in every case but one it is followed by -may (that is, presumably comitative -ma- plus unmarked inflection -y). Of my informants Lambert Cocky recognised this form but did not use it himself (preferring -bali). -yandi (which is not similar to any Dyirbal affix) may have occurred only in Hinchinbrook Biyay. Examination of the glosses given by Jimmy Johnson suggests that its meaning may possibly have been 'away', 'going' e.g. bimbiriyandi 'run away', gagayandimay 'take away'. Alternatively it

could conceivably have been the Hinchinbrook Biyay equivalent of -bali~-Igani etc.

- 3.5.6 SYNTACTIC DERIVATIONAL SUFFIXES. There are three affixes that change the syntactic function of a stem to which they are attached:
- [1] comitative -ma-, added to an intransitive stem derives a transitive stem. Discussion and exemplification is in 4.7.
- [2] instrumental -ma-, added to a transitive stem derives a stem that still takes transitive inflections, but functions ditransitively see 4.8.
- [3] in B only there is a reciprocal suffix -ba. Details are in 4.5.

Just three verbs have been recorded with both a transitivity-preserving and a syntactic derivational affix - comitative -ma- followed by continuative -Igani. One example was quoted at (74), another is at (207), and the third is bayibayimalgani 'REDUP-be tangled up-COMIT-CONTIN-UNMKD' i.e. 'keep tangling [something] up'.

- 3.5.7 REDUPLICATION. Verbal reduplication is used very sparingly. It appears to involve repetition of the first two syllables of the root and to indicate that an action is repeated over and over again. For example, with verbal roots gaga 'go' and bayguri 'shake':
- (105) nayba gagagagagi I kept on going and going
- (106) bada nuna baygubaygurigi gungiri dog-ABS 3sg-SO REDUP-shake-PERF tail-ABS The dog swished its tail (Literally, the dog's tail swished)

#### 3.6 POST-INFLECTIONAL AFFIXES

There are a number of affixes that follow inflections. Only two or three examples of each have occurred. They appear not to have any clear semantic or syntactic effect but rather to involve a type of stylistic emphasis. These affixes are:

```
-dan - see Text 6 lines 10 and 16;
```

- -ban e.g. minaguban 'I don't know' from minagu 'what-DAT';
- -bi e.g. pungabi 'Will this one do?' from demonstrative punga 'this';
- -bal occurred in the texts given by Jimmy Johnson to La Mont West Jr. Its meaning and function are not understood.

### 4. SYNTAX

#### 4.1 SIMPLE SENTENCES

4.1.1 CORE. Each sentence must involve a 'core' of obligatory elements in order to constitute a complete semantic unit. There are two types of core configuration:

nulanga ma: Indu Α nada pubula S ŋayba puna ma:1pubulapa nana 'man' 2du 3sg lsg i iii ii

TABLE 4.1 - Types of case marking.

Intransitive construction - NP in 'intransitive subject function' (S) and VC showing intransitive inflection;

Transitive construction - NP in 'transitive subject function' (A), NP in 'transitive object function' (O) and VC showing transitive inflection.

Here NP (noun phrase) indicates a number of nominal and/or pronominal elements, and VC (verb complex) is one or more verbs (agreeing in inflection); details of NP and VC composition are in 4.1.3-4.

Different parts of speech have different ways of marking the three core syntactic functions, S, A and O. Representative forms are shown in Table 4.1.

In column i non-singular first and second person pronouns have a single ('nominative') form for S and A functions, and a different marked form - involving the 'accusative' suffix -pa-for O function. This is usually referred to as a 'nominative-accusative' pattern of inflection. Thus:

- (107) nali gagay We two are going
- (108) nubula gagay You two are going
- (109) nali pubulana nunday We two are looking at you two
- (110) pubula galipa gunday You two are looking at us two

At the opposite extreme, iii, nominals (nouns and adjectives) and what we are calling the 3sg pronoun have one form ('absolutive case') for S and O functions, and a marked form ('ergative case') for A function. Examples of sentences involving forms that inflect in an 'absolutive-ergative' pattern are:

- (111) nuna gagay It is going
- (112) ma: I gagay The man is going
- (113) pulanga ma: I nunday It is looking at the man

In the middle of the diagram, at ii, we find that there exist distinct forms for all three functions; this applies to 1sg, 2sg, 3du, 3pl and the interrogative pronoun. (A

general semantic account of 'split' case systems, which perfectly covers the Wargamay situation, is in Silverstein 1976).

Sentences can, of course, mix NPs of all these types. Consider for instance:

(115) nali ma: I nundalma

Now nunda-'see, look' can occur with transitive or intransitive inflections. -Ima identifies it as transitive in this instance (see Table 3.3 in 3.5.1) and we would then look for an A NP and an O NP. We know that the form nall can be used for S or A function and ma: I for S or O function. Hence nall must here be A and ma: O, so that (115) can only mean 'we two will look at the man'.

There is a possibility of ambiguity here, due to the free occurrence of 'transitive roots' with transitive or intransitive inflections, and to the fact that two of the seven inflections have identical form in intransitive and transitive conjugations (3.5.1). Suppose that the verb were in unmarked inflection, which is -y irrespective of transitivity. Then:

(116) nali ma: I nunday

could be taken as transitive, like (115) - 'We two are looking at the man'. Or (116) could be taken as intransitive with a single S NP involving both  $\gamma ali$  and ma: | - 'we two men are looking'.

Note that this ambiguity could only happen with a 'nominative' non-singular first or second person pronoun, and with the verb in unmarked (or possibly in subordinate) inflection. 1sg and 2sg pronouns have distinct forms for S and A functions, so that corresponding to the two senses of (116) we have two distinct sentences:

- (117) nada ma: I nunday I am looking at the man
- (118) nayba ma: I nunday I, a man, am looking.

Further discussion, explaining the two interpretations of (116), is in 4.2.

- 4.1.2 SYNTACTIC AND LOCAL EXTENSIONS. To the obligatory core members of a sentence (whether transitive or intransitive) can be added one or more NPs indicating, for instance, the purpose (dative case) or cause (ablative case) of the action:
- (119) nuna naygungu gagabali He's coming for me

See also (16), (77), (79). Purposive NPs are discussed further in 4.2, 4.3.

Other syntactic extensions of the core are an aversive NP indicating something that is feared, as in (6), or an NP referring to some instrument that is used (see 4.8.1).

There are also local extensions, indicating motion 'to' or 'from' or rest 'at' some place. Thus (75), (76) and:

- (120) nayba gagay nalugu I'm going to the water (river)
- (121) gilganin gu:ngigi gagara hole-ABS emerge-PERF possum-ABS

A possum came out of the hole

(122) naga gagaranga gaga buyngari lsg-A dillybag-LOC child-ABS hang up-UNMKD I hung the baby up in a dilly-bag.

Further examples were given in the discussion of nominal cases -3.1.1.

- 4.1.3 NP STRUCTURE. It appears that an NP, whatever its syntactic function, can involve any collection of nominals, deictics, pronouns, so long as semantic plausibility is preserved; every constituent in the NP must bear the appropriate case marking. Thus, we encounter noun plus adjective:
- (123) naga bigal gagargagar nu:may lsg-A bark-ABS rough-ABS feel-UNMKD I felt the rough bark

and pronoun plus adjective, as in:

- (124) naga nuna bu:di / namiringu naga mugagu lsg-A 3sg-SO take-UNMKD hungry-ERG lsg-A eat-PURP I took it, I'm hungry so I'll eat it
- In (124) the 'transitive subject' NP involves the ergative form of  $\eta$ amiçi 'hungry' and the A pronoun  $\eta$ ada 'I' (the translation provided is a fairly free one).

An NP can involve two nouns, as wagun 'tree, wood' plus gulga[a 'log' in (76); an example of an NP with two pronouns is an 'inclusive' combination such as gali ginba - see (4) and 3.4.1. A noun and a pronoun can cooccur, as in (116) and (118). In (65) the NP involves a noun ma: | 'man', an adjective yaga 'two' and the 3du pronoun bula; there is a similar structure in line 17 of text 9.

The so-called 'third person pronoun' nuna appears to be able to feature in an NP with any other constituents (3.4.1). The demonstratives are restricted to S or O function (3.4.4).

In 4.6 we discuss the occurrence within an NP of an embedded genitive NP (normally indicating alienable possession), or of an apposed 'part' noun (inalienable possession).

Note that although the subject of a transitive sentence is normally animate, it can be inanimate, as:

- (125) midanga dumbaga / yugandu bardilma house-LOC enter-IMP rain-ERG wet-IRREAL Come into the house, lest the rain wet you!
- (126) nalungu nana gu:gay water-ERG lsg-O wash away-UNMKD The water (i.e. flood) washed me away
- 4.1.4 VC STRUCTURE. Although most simple sentences involve a single transitive or intransitive verb, the VC can involve more than one verb; these must have been the same inflection (which implies that they must, of course, agree in transitivity). Typically, the second element in a VC may be a verbalised adjective, providing adverbial-type modification of the lexical verb. See (194), (232-3), (238)

and

- (127) galguru nulanga wi:gimay ganday
  meat-ABS 3sg-A no good-CAUS-UNMKD cook-UNMKD
  She cooked the meat badly (glossed by the informant as 'She burnt the meat')
- 4.1.5 MINIMAL SENTENCES. Like other Australian languages, Wargamay does have a minor sentence type which involves no verb. This typically involves an adjectival or locational 'comment' (in absolutive case) on a nominal or pronominal 'topic' (which is in S function). See the second clause of (95) and:
- (128) nalu bamba The water's (too) far away
- (129) nayba gidul I'm cold
- 4.1.6 ORDER OF ELEMENTS. Wargamay shares with Dyirbal the property of allowing great freedom of ordering not only of words within a phrase and phrases within a sentence, but also of words within a sentence. (In contrast, the order of morphemes within a word is quite fixed.) Little textual material is available so that it is not possible even to suggest ordering preferences. The wide range of possibilities encountered can be seen from examination of the examples quoted throughout this grammar (leaving aside sentences (130-41), (143-155), (274-8), (284-7) in some of which the word order has been normalised in order to draw attention more easily to particular grammatical correspondences). See also 3.3.

# 4.2 CORRESPONDENCES BETWEEN TRANSITIVE AND INTRANSITIVE CONSTRUCTIONS INVOLVING TRANSITIVE VERBS

We mentioned in 3.5 that each verb root falls into one of two classes. Intransitive verbs can only occur in intransitive constructions - with a single S NP - and must take intransitive inflections, from the first column of Table 3.3. Thus we can have yugarabali 'is swimming' but not \*yugaralgani. (Transitive stems can be derived from intransitive roots by suffixing the comitative -ma; this takes transitive inflections. See 4.7.)

A root from the 'transitive set' can occur in a transitive construction - with A NP and O NP - taking an inflection from the transitive column, or in an intransitive inflection - with just an S core NP - taking an intransitive inflection. In neither case is any syntactic derivational affix required.

The NP accompanying a verb from the intransitive set must involve forms from the 'S row' of Table 4.1:

- (130) pubula yugarabali You two are swimming
- (131) nayba yugarabali I am swimming
- (132) nuna ma: I yugarabali The man is swimming

In a transitive construction one NP must involve forms from the 'A row' of Table 4.1 and one NP forms from the 'O

row':

- (133) nubula nana nundalgani You two are watching me
- (134)  $\eta$ aga  $\mu$ u $\eta$ a ma:  $\eta$ u $\eta$ ada  $\eta$ ani  $\eta$ i  $\eta$ i  $\eta$ atching the man
- (135) pulanga ma:Indu pubulana The man is watching you two nundalgani

An NP like puga ma: loccurs in S and in O functions. Its precise function in any particular sentence can be inferred from the pronominal forms that may fill the same slot. Thus puga ma: l in (132) is interchangeable with pubula and gayba, indicating S function; and in (134) it is interchangeable with gapa and pubulaga, indicating O function. Similarly, whether a non-singular first or second person pronoun like pubula is in S or A function in a particular sentence can be inferred from comparison with singular pronouns and nominals that can occur in the same slot.

We can now turn to intransitive constructions involving transitive verbs. There are basically two varieties.

- [1] Subject effectively identified with object, reflexive-type meaning. Here, if the agent does something to himself, an intransitive construction will be used. Often a body-part noun referring to the effective 'object' will be included in the S NP, apposed to the head noun or pronoun (in an 'inalienable possession' construction 4.6.2). Thus, corresponding to transitive
- (136) naga wagun gandanu lsg-A wood-ABS burn-PERF I've burnt the wood
- (137) ma:Indu gadan gi:balgani man-ERG grass-ABS scratch-CONTIN-UNMKD Man is scratching up grass
- (138) nada dalguru gunbay lsg-A meat-ABS cut-UNMKD I've cut the meat

we have the intransitive constructions, with reflexive-type meaning:

- (139) nayba mala gandagi lsg-S hand-ABS burn-PERF I've burnt my hand
- (140) ma:| gambara gi:bali
   man-ABS body-ABS scratch-CONTIN-UNMKD
   Man is scratching his body
- (141) ŋayba bingan gunbay lsg-S foot-ABS cut-UNMKD I've cut my foot

and see (106). In each of these sentences the body-part noun could be omitted - thus nayba gandagi 'I've burnt myself', ma: | gi:ba|i 'Man is scratching himself' and nayba gunbay 'I've cut myself' are all perfectly acceptable Wargamay sentences.

Note, though, that an intransitive construction is not obligatory for describing someone doing something to himself

(although it does seem to be preferred). Instead of (141) one could use a transitive construction

(142) naga gunbay bingan naygu lsg-A cut-UNMKD foot-ABS lsg-GEN I've cut my foot

Here the O NP has bingap 'foot' as head, modified by the possessive pronoun naygu 'my' (see 4.6.2).

In the W dialect, reciprocal sense is also shown by using a transitive verb in an intransitive construction, with a plural S NP. Examples are given in 4.5.

- [2] Distinct subject and object. For most intransitive constructions involving a transitive verb the subject and object are quite distinct, just as in a normal transitive construction. The A NP in the corresponding transitive sentence becomes the intransitive S NP and the transitive O NP now normally takes on ergative-instrumental inflection. Thus:
- (143) Transitive nada gungul mudalgani lsg-A vegetables-ABS eat-CONTIN-UNMKD I'm eating vegetables
- (144) Intransitive nayba gungulndu muqabali lsg-S vegetables-ERG/INST eat-CONTIN-UNMKD I'm having a feed of vegetables

There is at most a very slight difference in meaning between (143) and (144), shown by informants' glosses 'I'm eating'/'I'm having a feed' (and 'I'm looking/'I'm having a look' for (71-2) in 3.5.2). The reasons for having 'deep transitive subject' in surface S function are most frequently syntactic; this can help satisfy the complementation and subordination rules of Wargamay, which work in terms of identity of S and O NPs (never A NPs) between clauses. Discussion of these complementation and subordination processes is in 4.3, 4.4.

Note that most transitive verbs can occur in both type [1] and also type [2] of intransitive constructions. Thus, in addition to (143-4) we can have the reflexive construction:

(145) nayba (mala) gundabali I'm biting my (hand)

In (143-5) the transitivity was immediately apparent from the form of the singular pronouns (quite apart from the form of the verb) -  $\eta$ aga is only used for A and  $\eta$ ayba only for S function. But where both NPs involve just nominals, their function can be harder to determine. Take, for instance, the B sentence

(146) da:bungu yimbur mudani fish-ERG pelican-ABS eat-CONTIN-UNMKD

Leaving aside any extra-linguistic knowledge we may already have concerning which of pelicans and fish eat the other, let us determine this from syntactic analysis. If this were a transitive sentence we would expect the A NP to be in ergative case and O NP to be in absolutive. If it were

intransitive then S NP (corresponding to transitive A) should be in absolutive and the NP which corresponds to transitive O should be in ergative-instrumental inflection. That is, the form of the NPs is perfectly compatible with a transitive interpretation 'fish eat pelicans' or with an intransitive interpretation bearing the opposite meaning 'pelicans eat fish'.

It is in fact the form of the verbal suffix that resolves this difficulty. The continuative suffix (in B) is -lani in the transitive conjugation and -ni with intransitives (3.5.3). Thus yimbur is to be identified as S NP in (146) and the sentence translated as 'pelicans eat fish'.

Note, though, that (146) would involve a syntacticallyirresolvable ambiguity if the verb had just unmarked inflection, since this is -y for both transitive and intransitive conjugations. This relates to our comments in 4.1.1 on the ambiguity of (116).

Now in an intransitive construction involving a transitive verb, if the verbal inflection is anything other than purposive, the 'deep object' will normally take ergative-instrumental inflection, as in (144) and (72).

But if the verb is in purposive inflection (in a main clause or in a subordinate clause) then the 'deep O' NP can take either ergative-instrumental or dative case inflection. Thus corresponding to transitive

(147) ŋali biya danŋagu We want to drink beer

either of the intransitive alternatives

- (148) ŋali biyangu dannalagu <=(147)>
- (149) ŋali biyagu dannalagu <=(147)>

is acceptable. Whereas with an inflection other than purposive, the transitive  $% \left( 1\right) =\left( 1\right) +\left( 1\right) +\left($ 

(150) nali biya dannalgani We're drinking beer

has a single corresponding intransitive:

(151) nali biyangu dannabali <=(150)>

(Most of these constructions are exemplified in text 5.)

This is one example of the strong syntactic connection that exists in Wargamay between nominal dative inflection -gu and verbal purposive -lagu~-gu. The formal similarity between these suffixes recurs in many Australian languages so that it seems likely that they do have a common genetic origin (cf Capell 1956:77-8, Dixon 1972:11, 141-7, 1976b:421-82).

In fact, more than half the occurrences of transitive verbs in an intransitive construction are with purposive inflection, often as the second clause of a conjunction 'X in order to Y' where purposive marks the 'in order to' relation between events (see 4.3).

All the examples we have given thus far of transitive verbs in an intransitive construction have involved a nominal 'deep O'. We can now ask what happens in the case of a pronominal transitive object, as in

(152) ninda nana na:ra 2sg-A lsg-O listen-IMP You listen to me!

There is no ergative-instrumental inflection of pronouns so that we cannot form an intransitive correspondent of (152) along the lines of (143-4). It seems, in fact, that dative can be used in this instance, even though the verbal inflection is not purposive:

(153) ninba naygungu na:raga <=(152)>

In another instance locative was used to mark a pronominal 'deep O' NP in an intransitive construction:

- (154) transitive yugandu nana bardilgani rain-ERG lsg-O wet-CONTIN-UNMKD Rain is falling on me.
- (155) intransitive yugan naygunda bardibali rain-ABS lsg-LOC wet-CONTIN-UNMKD <=(154)>

Note that the A form of a pronoun can not be used for the 'deep O' NP in a transitive sentence. That is, \*\(\gamma\)inba \(\gamma\)ada \(\gamma\)araga and \*\(\gamma\)ugan \(\gamma\)ada bardibali (with the sense 'the rain wet me') are totally unacceptable. \(\gamma\)ada can only be used in an NP that is in surface as well as deep 'transitive subject' function.

Confronted by (146) the reader may have wondered why it could not be called a special type of transitive construction - after all it does have a subject and an object, and formal marking of absolutive and ergative-instrumental inflections. The reasons for calling it 'intransitive' are

- (a) the 'subject' NP in a construction like (146) is always chosen from the middle row in Table 4.1, involving 1sg gayba and 2sg ginba (forms that only occur in S function for intransitive sentences);
- (b) whereas a nominal in A function in a transitive sentence must be in ergative case and one in S or O function must be in absolutive case, the 'deep O' NP (da:bu) in a sentence like (146) can be in ergative-instrumental or dative or even in locative case;
- (c) the suffixes available to the verb in sentences like (146) are all from the intransitive column of Table 3.3; these are the inflectional allomorphs that must be used with intransitive roots like yugara 'swim' and wa:gi 'laugh'.

A sentence will normally be expected to have the full set of core elements (4.1.1). Although some of these may be deleted in running texts, in elicitation informants would tend always to supply an A NP and an O NP for a transitive sentence, and so on. In contrast, the 'deep O' NP in an intransitive construction need not be stated at all. In fact a transitive verb is sometimes used in an intransitive construction simply because the speaker does not want to, or cannot, specify the 'object'. Contrast:

(156) pulanga bada nundalgani He is looking at the dog

(157) puna nundabali He is looking around

In this way, the 'deep O' NP in an intransitive construction behaves like an 'extensional' (4.1.2) and not like a core NP. (Compare nayba nunday in line 17 of Text 5 with naga nunday guyngan in line 7.)

In the discussion so far we have implied that the S NP in an intransitive construction is always coreferential to the A NP in the corresponding transitive construction (involving the same transitive root). There is just one known exception to this generalisation - dumba can mean 'go in' or 'put in' e.g.

- (158) nuna bada gumbagi balganda 3sg-SO dog-ABS go in-PERF house-LOC The dog went into the house
- (159) bada naga gumbay balganda dog-ABS lsg-A put in-UNMKD house-LOC I put the dog into the house

Note that the S NP in (158) is coreferential to the O (and not the A) NP in (159). Since this is a unique example we can perhaps suggest that there are two homophonous verbal roots – intransitive gumba 'go in' and transitive gumba 'put in'. We would then, of course, expect the transitive root to be able to occur in an intransitive construction in the normal way. But in fact

\*(160) nayba nulanga badangu dumbagi

appears not to be acceptable. We can put this down to 'interference' from the homonymous intransitive root, as in (158); to avoid the possibility of ambiguity it seems that the transitive root gumba- can only be used in transitive constructions.

We have said that all or almost all 'transitive verbs' can occur in transitive or in intransitive constructions. In fact, each of them functions transitively the majority of the time, this being the unmarked construction type for 'transitive verbs'. They occur in intransitive constructions for specific reasons - to indicate reflexive meaning, to put the 'deep A' NP into surface S function in order to satisfy coordination and subordination constraints, to avoid having to specify the 'object', or for reasons of semantic or stylistic emphasis. About half the transitive roots collected did appear in both transitive and intransitive construction types; checking a sample of the remainder suggests that almost all of these also have the potentiality of occurring in intransitive constructions (with, potentially, any intransitive inflection).

In fact, some transitive verbs commonly occur in intransitive constructions, others do so occasionally, and others almost never do. This is simply a function of their semantic nature, and consequent syntactic behaviour. A verb like gi:ba-'to scratch' will often be used reflexively (and note that the pair of roots giba-y/giba-I 'scratch' is one of only five known intransitive/transitive pairs in Dyirbal - see 5.1.2 and Dixon 1972:315-6); and with verbs like nunda-'to see, look' na:ra-'to hear, listen', baya-'to sing', buya-

'to blow' and muga-'to eat', the speaker occasionally may not wish to specify an object. Other verbs typically occur in complement clauses - nuni-'to hunt for' often occurs in sentences like 'go to hunt for animals' - and will then take the intransitive purposive inflection -lagu. But gi:ga-'tell to do, let do' has none of these properties - it has never been encountered used reflexively, the object is always specified, and it tends to occur in the main clause (not the subordinate clause) of a complement construction (e.g. 'tell him to catch animals'). It is thus quite natural that gi:gashould not have been encountered in an intransitive construction, and could not be elicited in one. Another verb that has never been heard in an intransitive sentence - and could not be elicited in one - is wugi-'give'.

#### 4.3 COMPLEMENTS

4.3.1 DATIVE AND PURPOSIVE. In his brief comments on the grammar of Wargamay, Lumholtz (*Among Cannibals*, 1889:308) singled out for special mention the suffix -gu:

'The suffix go literally means "with regard to", and is usually added to nouns to give them a verbal meaning, but it is also sometimes added to verbs. The question Wainta Morboro? - that is, "Where is Morbora?" - can be answered by saying only trtyengo (he has gone hunting tityen) (wallaby), (literally, with respect to wallaby); or, for example, mittago he is at home (literally, with regard to the hut). Mottaigo means "he is eating" (literally, with regard to eating). "Throw him into the water," is expressed simply by ngallogo. As is evident, this is a very convenient suffix, as it saves a number of moods and tenses.'

There does seem to be, as Lumholtz suggested, a connection between the dative case -gu and verbal purposive -lagu  $\sim$ -gu. Thus, in

- (161) ninba migirilagu naygungu 2sg-S wait-PURP 1sg-DAT You must wait for me

the dative NP and purposive verb have in each case similar semantic overtones, indicating 'need' and 'desire'.

We can however go beyond semantic feelings and demonstrate a fairly formal syntactic relationship between the nominal and verbal inflections. First, note that a core sentence may be extended by either a dative NP, or a purposive verb, to indicate something to which the action referred to by the main verb is directed, as in:

- (163) nayba gagay wubirigu I'm going for sugar-bag (i.e. bee's honeycomb)
- (164) nayba gagay wiggalagu I'm going to bathe

In 3.5.4 we gave examples of purposive inflection on the verb in a main clause, marking necessity or desire (a kind of 'volitional future'). (164) shows a rather different use of purposive, to mark the verb in a complement clause; -lagu in (164) seems to link the action referred to by the verb in the main clause with that in the complement clause - 'go in order to bathe'.

4.3.2 COMPLEMENT CLAUSES. The condition for two clauses to be joined in a complement construction is that they have a common NP that is in surface S or O function in each clause. The verb of the main clause can bear any inflection (except subordinate) and the verb of the complement clause shows purposive inflection. Semantically, the action of the main clause was performed so that the action of the complement clause should be possible.

We can thus recognise four types of complement construction, according to the functions of the common NP.

- [a] S function in main clause and in subordinate clause e.g. (164).
- [b] S in main clause and O in subordinate clause e.g.
- (165) nuna ma: | du:ndigi / nulmburungu nundagu 3sg-SO man-ABS emerge-PERF woman-ERG see-PURP The man came out so that the woman would see him
- [c] O in main clause and S in subordinate clause e.g. (68) and
- (166) naru gungarilda wagun / wana / duwaralagu DON'T cut-NEG IMP tree-ABS leave-IMP stand-PURP Don't cut the tree down! Leave it to stand (there):
- (167) naga burmbi nuna / bandaligu lsg-A throw-UNMKD 3sg-O burst-PURP I threw it (a bottle) down, so that (it) burst.
- [d] O in main and in subordinate clause e.g. the last two clauses in line 1 of Text 7, and
- (168) ninda baba gi:gin / naga gunbagu 2sg-A spear-IMP wallaby-ABS lsg-A cut-PURP You spear a wallaby, so that I can cut it up.
- 4.3.3 'FAVOURITE CONSTRUCTIONS'. Suppose that we wish to join in a complement construction two clauses, and that they have a common NP which is in S or O function in the first but in A function in the second e.g.
- (169) nayba gagay I'm going
- (170) naga wubiri gungarigu I want to cut sugar-bag

In order to form a complement construction the common NP must be in S or O function in each clause; to meet this syntactic constraint we have to use not (170) but the corresponding intransitive construction (4.2) i.e.

(171) ŋayba wubirigu gungarilagu <=(170)>

We then obtain, with the normal deletion of the second occurrence of the common NP:

(172) nayba gagay wubirigu gungarilagu I'm going to cut sugar bag

Note the similarity between (172) and

(163) nayba gagay wubirigu I'm going for sugar-bag

In fact, any sentence with a dative NP, such as (163), can be extended by a transitive verb in -lagu inflection, indicating what the referent of the S/O NP of the first clause wants to do to the referent of the dative NP. A dative NP thus carries the expectation of a following transitive verb, in intransitive purposive inflection (cf (12) in 3.1.1).

We can refer to (172) as a 'favourite construction'. (There are parallels to the 'favourite construction' described for Dyirbal - Dixon 1972:73-4. Further discussion is in Chapter 5.) The first clause can be transitive or intransitive; its S or O NP will be coreferential with the 'deep A' NP of the second clause - this actually appears in surface S function through choice of the intransitive construction (which was necessary to meet the S/O condition on coreferential NPs for complement constructions).

Further examples of favourite constructions with intransitive main clause are line 15 in text 5 and line 4 in text 6. A favourite construction with transitive main clause is

(173) waybalangu nana gi:gay galgurugu galgilagu whiteman-ERG lsg-O tell-UNMKD meat-DAT cook-PURP
The white man told me to cook the meat

Note that the main clause can involve any inflection including purposive (as in (4)). Or the main clause can be a 'minimal sentence' involving, say, an adjective (but no verb), as in (47).

The crucial role of intransitive constructions involving transitive verbs can thus be seen - they are needed to form complement clauses where the underlying A NP is coreferential to S or O NP in the main clause. We noted in 4.2 that if a transitive verb appears in an intransitive construction with purposive inflection, then the 'deep O' NP can be in dative or in ergative-instrumental inflection, that is, we can have either nayba gagay dannalagu biyagu or nayba gagay dannalagu biyangu 'I went to have a drink of beer' (cf. (148-9)). But in purposive complement clauses, dative is much the commoner marking on the 'deep O' NP, as in (172-3), (12), (4) and (47).

Little text material is available in Wargamay and little can be said about conditions for coordination of two sentences that fall outside complement constructions (i.e. where the second sentence does not show purposive verbal inflection). The indications are, though, that it is again necessary for there to be a common NP that is in S or O function in each clause. In 3.5.4 we mentioned a type of subordinate clause whose verb is marked by irrealis inflection -ma~-lma, referring to something unpleasant that is to be avoided. For this construction-type there is generally an NP common to the two clauses and it is usually in S or O function in each clause; certainly the common NP can only be deleted from the second clause if this syntactic condition is satisfied - see (82), (83) and (125).

We have not said anything about complex sentences where

there is a common NP that is in A function in the main clause but in S or O function in the subordinate clause. In fact there are no examples of this type in the corpus collected, and when elicitation was directed to this point a straightforward sequence of transitive and intransitive clauses was obtained, with no syntactic interrelation between their noun phrases, and no NP deletion:

(174) nana nulanga daygay / nuna bungilagu
lsg-0 3sg-A hunt away-UNMKD 3sg-S0 lie down-PURP
 wugargiri
 sleepy-COMIT-ABS
He sent me away then he could sleep.

#### 4.4 RELATIVE CLAUSES.

The syntax of relative clauses is almost identical to that of complement clauses. There must be a common NP that is in S or O function in each clause. The verb of the main clause can bear any inflection except subordinate, while the verb of the relative clause must be in subordinate inflection. A relative clause refers to an action that is simultaneous with, or previous to, the action of the main clause.

Exemplifying in terms of the function of the common NP:

- [a] S function in main clause and also in relative clause
- (175) nayba wi:gimbigi wunanu
  lsg-S no good-INCHO-PERF walkabout-SUBORD
  I, who had been walking about, felt no good (i.e. tired)
- (176) nayba magulinu gi:gilagu
  lsg-S work-INCHO-SUBORD sit-PURP
  I, who have been working, want to sit down
- [b] S in main clause and O in subordinate clause
- (177) puna birbabali naga nundapu 3sg-SO jump-CONTIN-UNMKD lsg-A see-SUBORD It (the kangaroo) which I saw was jumping
- (178) gu:gara nada baygurinu wulay goanna-ABS lsg-A bash-SUBORD die-UNMKD The goanna which I had bashed (on a tree) died
- (179) A: dumuburungu nada wuginu / nulmburu dagigi /
  beef-INST lsg-A give-SUBORD woman-ABS fall-PERF
  B: minambinu / A: dumuburu gundil /
  what-INCHO-PERF beef-ABS heavy-ABS
  A: 'The woman, whom I had given meat to, fell down'.
  B:'How was it (she fell)?' A: 'The meat was (too) heavy.'
- (180) nada danbanu / nuna dagigi
  lsg-A hit-SUBORD 3sg-SO fall-PERF
  He, who I had hit, fell down.
- [c] O in main clause and S in subordinate clause
- (181) nada nulmburu danbay ba:dinu lsg-A woman-ABS hit-UNMKD cry-SUBORD I punched the woman who was crying.

- (182) naga nuna gumuburu burmbilgani /
  lsg-A 3sg-SO beef-ABS throw-CONTIN-UNMKD
  bugambinu
  rotten-INCHO-SUBORD
  I throw away beef which has gone rotten.
- (183) naga na:ray nina bu:nguraymbinu lsg-A hear-UNMKD 2sg-O snore-INCHO-SUBORD I heard you snoring (last night)
- [d] O function in both clauses
- (184) ŋaḍa ŋunday puŋa ḍilwapu lsg-A see-UNMKD 3sg-SO kick-SUBORD I saw him being kicked
- (185) nana dannay nalu waybalangu bu:dinu lpl-SA drink-UNMKD grog-ABS whiteman-ERG bring-SUBORD We are drinking the grog which the white man brought

A continuative suffix can, of course, come between root and subordinate inflection, as in:

(186) nuna nulmburu nunda wa:dibalinu 3sg-SO woman-ABS look-IMP laugh-CONTIN-SUBORD Look at that woman laughing!

We described two uses of the purposive inflection -lagu ~-gu, marking a main verb, or the verb in a complement clause. If we were restricted to the transitive conjugation we could suggest that -pu patterned in a similar way - as a perfect inflection in the main clause, and as the marked of a relative clause. The similarity between main and subordinate uses of -lagu~-gu (both implying futurity and purpose) is paralleled by a semantic overlap between main and subordinate uses of -pu (the former must and the latter can refer to completed actions). But in the intransitive conjugation perfect is -gi, quite distinct from subordinate -pu, and it is partly in view of this that we recognise two separate inflections in this case (as against one inflection, with two functions, for -lagu~-gu).

It is in fact sometimes difficult to decide whether a

It is in fact sometimes difficult to decide whether a verb in -pu form should be regarded as 'perfect' or 'subordinate'. (176) is a typical example: we could take di:gilagu as the main verb and magulipu as a subordinate clause; or alternatively magulipu could be the main verb in perfect inflection with di:gilagu a complement clause. On semantic grounds the first interpretation seems most plausible in this instance - that is, we prefer 'I, who have been working, want to sit down' over 'I worked in order to sit down'

In many cases there is a considerable semantic difference between perfect and relative interpretations. In (181), for instance, if ba:dipu were in perfect inflection the sentence could only mean 'I punched the woman (after she) had completely finished crying' (and if this interpretation had been intended ba:dipu should normally have preceded gaga dambay).

If the common NP involves just nominals they will have the same form for S and O functions; then the second occurrence of the common NP is likely to be deleted. In the case of pronouns, different forms are used for the two functions and both occurrences may be retained, as in:

- (187) nayba bimbirigi /ma:ldu nana wunanu
  lsg-S run-PERF man-ERG lsg-O chase-SUBORD
  I, who was being chased by the man, ran away (i.e. 'I ran away with the man chasing me')
- (188) pulanga ma:Indu nana du:[anu / nayba dagigi
  3sg-A man-ERG lsg-O pull-SUBORD lsg-S fall-PERF
  I, having been pulled by the man, fell down (out of the tree-fork)

Just as in the case of complement clauses, a transitive verb may be used in an intransitive construction in order to meet the syntactic condition on relative constructions e.g.

(189) nulmburungu nunday gindu mudabalinu woman-ERG see-UNMKD child-ABS eat-CONTIN-SUBORD gungulndu vegetables-ERG/INST

The woman watched the child eating vegetables

Another way of dealing with this situation (of the common NP occurring in A function in one clause) is simply to employ two separate sentences:

(190) naga gilway nuna wigiyan / galginu nulanga lsg-A kick-UNMKD 3sg-SO white woman-ABS burn-PERF 3sg-A galguru meat-ABS

I kicked the white woman. She had burnt the meat.

No example is known of a relative clause construction in which a common NP can be in surface A function in either clause.

It will be noticed that a relative clause normally follows the main clause. It may, however, precede it (normally forming a separate intonation group in this case) as in (179-80), (188). And there are examples of relative clauses being inserted into the main clause, normally after the occurrence of the common NP - as (176), (178).

#### 4.5 RECIPROCALS

There is, in the B dialect only, a suffix -ba that can be added to transitive verb roots, deriving an intransitive stem with reciprocal meaning:

- (191) nali mayngabay yala We'll talk together here (literally 'tell each other')
- (192) gawanbigi nuna burbabagu anger-INCHO-PERF '3sg'-SO hit-RECIP-PURP
  They have become angry and want to fight each other.

In text 9 line 15 John Tooth used a B reciprocal form burbabay.

Note that in (192) the purposive inflection is -gu, from the transitive column in Table 3.3, rather than intransitive -lagu. This was given on two separate occasions,

and burbabalagu explicitly rejected, so that it is unlikely to be an error.

In (193) nunda+ba-, literally 'look at oneself', has the semi-idiomatic sense 'wait (for)':

(193) nayba yala nundabay ninungu I've been waiting here for you.

A reciprocal verb can, of course, function in a subordinate clause e.g.

(194) naga pubulana yagamay pingay burbabanu 1sg-A 2du-O two-CAUS-UNMKD stop-UNMKD hit-RECIP-SUBORD I stopped you two from fighting

The W dialect will simply use a transitive verb in an intransitive construction in order to show reflexive and also reciprocal sense e.g. dana burbabali 'they are fighting' dana bundabali 'they are shooting each other'; the inclusion of adjective nalma 'on one's own' can emphasis the reflexive interpretation.

Nyawaygi also shows a reciprocal verbal suffix -ba, identical to that in B.

## 4.6 POSSESSION

In common with most Australian languages, Wargamay distinguishes between inalienable possession - covering wholepart relationship - and alienable possession - covering possession of artefacts, pets, language, and also kinship relations.

4.6.1 ALIENABLE POSSESSION. The genitive case - nu must be used to mark alienable possession. Genitive is added to each word of the 'possessor' NP, and this NP then modifies the 'possessed' head noun. The inflection appropriate for the head noun is added after the genitive inflection, on words of the 'possessor' NP. (The only examples of a declined genitive that have been gathered involve pronouns e.g. (61).)

See (84) and

- bada nagunga dambidambinu 3sg-SO dog-ABS THERE old woman-REDUP-GEN-ABS The dog over there belongs to the old women
- nada nunday dananu dog-ABS 1sg-A see-UNMKD 3p1-GEN-ABS I saw the dog belonging to all (those people)
- INALIENABLE POSSESSION. For indicating a part of some object either a genitive construction can be used, as for alienable possession, or else the 'part noun' can just be apposed to the 'whole noun' in an NP (modifying it as an adjective would). In this 'appositional' construction there is no overt marking of possession; both nouns simply take the case inflection appropriate to the function of their NP.

Either a genitive or an appositional construction can be used quite freely for inalienable possession, although

apposition is probably a little commoner. (In this Warga-may is quite different from Dyirbal, which cannot use the genitive for inalienable possession - Dixon 1972:61-2. The data available for Wargamay is not rich enough to allow us to investigate whether there is a semantic hierarchy motivating the alternation, as there is for Yidin - Dixon 1977a: 360-4.)

Thus, one could say either of

- (197) naygu bingan winin My foot is sore
- (198) nayba bingan winin  $\langle =(197)\rangle$

Other examples of the appositional construction are at (61), (106), (139-41), (243) and line 11 of text 9. A minimal sentence with adjectival comment and a topic NP that involves inalienable possession is:

(199) nayilngara nayba marnga neck-ABS lsg-S sore-ABS My neck is sore

Note also:

(200) nayba yira namugay My tooth aches (literally 'My tooth has toothache')

It appears that a person's name is regarded as inalienably possessed, just like a body part - either the genitive mina ginu yi: or appositional ginba mina yi: can be used for 'what's your name?'.

- 4.6.3 'GIVING' CONSTRUCTIONS. The most frequent construction involving the verb wugi 'give' has the 'giver' in A function, the 'recipient' in O function, and 'what is given' in instrumental inflection. Thus (32), (35), (179) and
- (201) bugangu gumuburungu nana nulanga waybalangu wuginu rotten-ERG/INST beef-INST 1sg-O 3sg-A whiteman-ERG give-PERF The white man gave me rotten beef
- (202) yungurangu nana bangaygu wuga another-INST lsg-O spear-INST give-IMP Give me another spear!

The alternative 'giving' construction is to have 'giver' in A function, 'what is given' in O function, and 'recipient' as alienable possessor (marked by genitive) within the O NP e.g.

- (203) A: ŋa:nu ŋinda wugi gaygamali /
  WHO-GEN-ABS 2sg-A give-UNMKD flour-ABS
  Who did you give the flour to?
  - B: pagunga nulmburunu wugi
    THERE woman-GEN-ABS give-UNMKD
    (I) gave it to the woman over there

Note that the recipient would not normally be in dative case. The possibility of using dative (but not to mark ultimate recipient) with wugi is seen in (204). John Tooth had asked me to take a trunk full of crockery to his son in Cairns, and told me to say:

(204) bagidi nunga danangu wuginu naygungu/ wugigu trunk-ABS THIS father-ERG give-PERF lsg-DAT give-PURP ninu 2sg-GEN-ABS (Your) father gave this trunk to me (for me) to give (it) to

Here the dative naygungu'to me' indicates that I (who was intended to be the speaker of this sentence) was not the eventual recipient of the crockery; I had to deliver it to the intended addressee, John Tooth's son, and ninu'your' is in genitive form.

## 4.7 COMITATIVE CONSTRUCTIONS

The addition of derivational suffix -ma to an intransitive root derives a transitive stem. John Tooth contrasted:

- (205) balbay bandaligi The bottle burst
- (206) balbay bandalimay (Someone) burst the bottle

The first sentence involves the intransitive verb bandali-, and implies that the explosion was spontaneous. In contrast, the inclusion of transitive bandali+ma- in (206) indicates that there was an agent (and an A NP could of course be included in this sentence).

The S NP in (205) corresponds to the O NP in (206), with an agent brought in as A - literally 'Someone made [the bottle burst]'; note that here there is a change of state, for the bottle. However, in most of the -ma constructions I have collected it is transitive A NP which corresponds to intransitive S (and there is no change of state involved). For instance:

- (207) nulanga nulmburungu gindu wunamalgani
  3sg-A woman-ERG child-ABS walkabout-COMIT-CONTIN-UNMKD
  malanga
  hand-LOC
  - The woman is walking about with the child [holding it] by the hand
- (208) puŋa ŋulmburu wuŋabali gindugiri 3sg-SO woman-ABS walkabout-CONTIN-UNMKD child-COMIT-ABS <=(207)>

Here the A NP in (207) is identical to the head noun (and 3sg pronoun) of the S NP in (208); and gingu, which is in 0 function in (207), takes the nominal comitative suffix -giri (3.1.3) to function as a modifier within the S NP in (208).

In most of the -ma examples collected there is a correspondence between the O NP in the transitive comitative construction and a noun in nominal comitative form in the underlying intransitive sentence, as in (207-8); it is in view of this that we refer to -ma as the verbal comitative suffix (and (206-7) as 'comitative constructions'). Other examples are

(209) muyma ninda banama boy-ABS 2sg-A return-COMIT-IMP You return with the boy!

(210) naga nulmburu di:gimay
lsg-A woman-ABS sit-COMIT-UNMKD
I'll sit with the woman (this has the idiomatic meaning 'I'll
marry the woman')

But there are some comitative constructions where the O NP corresponds to a dative or locative NP in the corresponding intransitive sentence; see (74) and

- (211) naga naygu yibi ba:dimay lsg-A lsg-GEN-ABS child-ABS cry-COMIT-UNMKD I'm crying for my child (if, say, she is lost)
- (212) gi:balgani nulanga gadangadan / scratch-CONTIN-UNMKD 3sg-A grass-REDUP-ABS bungimagu nulanga lie down-COMIT-PURP 3sg-A

He (the bandicoot) scratches grass together, to lie down on it

Intransitive verbs - like bandali-'burst', bana 'return', wa:gi 'laugh', gi:(gi) 'sit' and ba:di 'cry' - can only take intransitive inflections. But comitative -ma derives transitive stems which can then take either transitive or intransitive inflections (according to the circumstances outlined in 4.2). Thus we can have both

- (213) transitive naga gaga banamagu I must take the child home
- (214) intransitive nayba dadagu banamalagu <=(213)>

Note the contrast between intransitive use of the transitive stem bana+ma- 'go home with, take home' and the intransitive root bana in:

- (215) intransitive gayba banalagu dadagu I must go home to the
- (Word order is not significant in any of these examples.)

  The comitative derivational affix -ma coincides in form with the intransitive irrealis inflection -ma. Thus gagama could be intransitive 'go-IRREAL' or transitive 'go-COMIT-POS IMP'. In most cases the other constituents in the sentence would help resolve this ambiguity. We can also, of course, get comitative -ma followed by irrealis -lma:
- (216) puna dadangu bu:dilma / wunamalma
  3sg-ABS child-ERG take-IRREAL walkabout-COMIT-IRREAL
  The child might pick it up and walk around with it

# 4.8 INSTRUMENTALS

- 4.8.1 INSTRUMENTAL NPs. If an action crucially involves a weapon or tool then this can be shown by an NP in instrumental inflection, as in (59) and
- (217) nuna wagun gungari nulanga bargungu 3sg-SO tree-ABS cut-IMP 3sg-INST axe-INST cut the tree with the axe!
- (218) nuna gurga rubungu ninda 3sg-SO tie-IMP rope-INST 2sg-A

You tie it up with rope!

The instrument may be a body part, as in

- (219) puna bingandu dilwa Kick him with (your) foot!
- (220) mulindu ŋaḍa wagun buyay lip-INST lsg-A fire-ABS blow-UNMKD I blew the fire with (my) mouth
- (221) gadan pulanga mulindu du:[algani grass-ABS 3sg-A lip-INST pull-CONTIN-UNMKD It (the bird) kept pulling up grass with (its) mouth

Instrumental NPs can also refer to liquids:

(222) gurmaIndu banga ninda
blood-INST paint-IMP 2sg-A
You paint (it) with blood!

Note that the instrumental inflection will only be used if the tool or body part is crucial to the action and if it is used to affect the state of the referent of the O NP. Thus in (221) the bird used its beak to pull the grass out of the ground, and instrumental inflection is appropriate. But in

(223) gadan nulanga mulinda bu:dilgani grass-ABS 3sg-A lip-LOC take-CONTIN-UNMKD It (the bird) carries grass in (its) mouth

the bird simply carries the uprooted grass back to its nest in its beak; here locative inflection is used.

A further use of instrumental is to mark 'what is given' in the most common type of giving construction - 4.6.3.

- 4.8.2 INSTRUMENTAL CONSTRUCTIONS. There are in my corpus just four or five examples of a derivational suffix -ma added to a transitive root. For instance:
- (224) warŋay ŋaḍa bu:digu ḍinbamagu ḍa:bugu fishspear-ABS lsg-A take-PURP spear-INST-PURP fish-DAT I'll take the fishspear to spear fish with

This appears to have the same meaning as

- (225) warnay naga bu:digu I'll take the fishspear
- (226) ga:bu naga ginbagu warnaygu  $\,$  I'll spear fish with the fishspear We can thus suggest that -ma effectively derives from (226):
- (227) warnay nada dinbamagu da:bugu <=(226)>

That is, it places the instrumental NP in surface O function (absolutive case) so that it can enter into complement constructions etc (which demand a common NP in S or O function in each clause); and the deep O NP is now marked with dative case; (224) involves (225) as main and (227) as complement clause, with the common O NP warnay - and also the repeated A pronoun naga - being deleted from the second clause. (This is, in fact, syntactically identical to the instrumentive construction in Dyirbal - Dixon 1972:95-6.)

Another example is:

(228) nuna gagara bu:diya / wanagu gumbamagu 3sg-SO dillybag-ABS bring-IMP beans-DAT put in-INST-PURP Bring the dillybag to put beans in:

In view of its connection with nominal instrumentals, we call the suffix -ma, when added to a transitive verb, an 'instrumental' derivational affix

No example has been gathered of -ma added to wugi- 'give' with the 'what is given' NP (normally in instrumental case with wugi-) going into absolutive case with wugima-. 'What is given' NP's do behave like other types of instrumental NP in Dyirbal, and it is quite likely that they would also do so in Wargamay.

Note that only an instrumental NP can go into absolutive case within a -ma construction. Although ergative and instrumental have identical formal realisation, ergative is not affected by the -ma derivation.

### 4.9 VERBALISATION

4.9.1 INCHOATIVES. From any noun or adjective can be derived an intransitive verbal stem, through the addition of an inchoative derivational affix that has the following allomorphs:

```
-mbi following a vowel,
-bi following a nasal (n, p or m),
-bi~-mbi following y
-i following | or r.
```

Inchoatives take the full set of intransitive suffixes, from Table 3.3. There is just one irregularity in that before the continuative suffix -bali, -bi drops from the post-vocalic inchoative allomorph -mbi. Thus (cf. (44)):

```
nominal bi:[a gawan gubil
inchoative stem bi:[ambi- gawanbi- gubili-
+perfect inflection bi:[ambigi gawanbigi gubiligi
+continuative+unmarked bi:[ambali gawanbibali gubilibali
'fear' 'anger' 'whistle'
```

This -bidropping - which appears to be obligatory - is a further instance of the haplologic-like syllable deletion tendency mentioned in 2.6.

The intransitive verbaliser is most frequently added to adjectives or abstract nouns and indicates a state of 'becoming'. Examples have been given at (50), (57), (64), (67) (82), (182), (192); there are in addition examples throughout the texts. Also:

- (229) nayba nalamburumbigi lsg-S good-INCHO-PERF I feel good
- (230) gilan gawanbima old man-ABS anger-INCHO-IRREAL The old man might get mad

It is also frequently used to derive intransitive verbs from nouns such as bu: nguray 'snore' - as in (183) - and maqu!

'work' - as in (176) and (240). The verbaliser is often found with nouns referring to noise - thus qubit 'a whistle'. gubili- 'to whistle'; gawal 'a call', gawali- 'to call out'. The W verb banma- 'to speak' is missing from B and instead mayay(m)bi-, a verbalisation of mayay 'language', is employed. (In W mayay(m)bi-can be used in alternation with banma-.)

In fact, any sort of noun can be verbalised. In line 18 of Text 6 warudala+mbi+gi refers to two 'dreamtime men' changing into black wallabies, wagudala. And in:

puga ma:l di:dinbigi face-ABS 3sg-SO man-ABS wallaby-INCHO-PERF The man's face has become like a wallaby's

inchoative -bi is used as an alternative to the nominal suffix  $-\eta$ aru'like a' (3.1.3).

When added to mipa'what' the intransitive verbaliser derives an interrogative verb minambi- 'do what, do how' see (179), line 14 of Text 6 and line 4 of Text 9. With the locational root wanda 'where' we obtain wandambi- 'do where', as in

(232) puna wandambilagu yugaralagu Which way will he swim?

With what we called the third person pronoun, puga, -mbi derives a deictic verb 'do like this':

(233) ninba nugiga nunambiga You dance like this!

There is also a verb naqumbi-'to come' that is based on the form pagu'to here' (3.4.3); it is used in (94). It appears, however, that -mbi~-bi~-i cannot be productively added to all forms from Table 3.2.

- CAUSATIVES. A transitive verbal stem can be formed by adding -ma to any noun or adjective root. These causatives have much the same properties as inchoatives; examples are at (17), (127), (194) and
- The water is cold, heat it up! (literally (234) ŋalu gidul / dawunma 'make it hot')
- (235) windingu nana bi: pamay snake-ERG lsg-S fear-CAUS-UNMKD The snake frightened me
- (236) pulanga napa dilbaymay 1sg-0 know how to do-CAUS-UNMKD 3sg-A He taught me (how to do it)
- (237)ma:ldu ŋaɲa gungamay man-ERG 1sg-0 alive-CAUS-UNMKD The man cured me
- (238) nada dalguru gargirimay 1sg-A meat-ABS finished-CAUS-UNMKD cut-UNMKD I finished cutting the meat up

There are also transitive verbs minama- 'do what', punama- 'do like this' and paguma- 'bring':

(239)minamaqu nuŋa ma:l what-CAUS-PURP 3sg-SO man-ABS What will (you) do to the man?

#### 4.10 PARTICLES

There is a set of non-inflecting particles that provide modal/logical-type qualification of a complete sentence. With the exception of nuri, they have only been encountered occurring before the verb.

- [1]  $_{0a}$ : 'not'. This is used to negate any clause (excepting imperatives). Examples are (5), (101-2), Texts 5.24, 6.17, 7.10 and
- (240) nuna wi:gina / na: maguligi ma:l He's no good, the man won't work
- (241) wi:gi nulan / na: wagun gungari The axe is no good, it won't cut wood
- (242) nuna nunigi naygungu / maya nana na: nunday 3sg-SO look for-PERF lsg-DAT NO lsg-O NOT see-UNMKD He was looking for me but no, (he) didn't see me.
- (243) mala nana gunday / maya nada na: gi:gay hand-ABS lsg-O bite-UNMKD NO lsg-A NOT let go-UNMKD (She) bit my hand - but no, I didn't let go (of her)
- [2] naru 'don't. This is used in negative imperative sentences, in conjunction with verbal inflection -da~-lda. See 3.5.4.
- [3] wara indicates that an event concerned the wrong person or thing as referent of the S or O NP e.g.
- (244) pulanga wagun wara gunbay He cut the wrong tree down
- (245) ...wara <code>namunbinu</code> / maya bandarabaranga PARTICLE breastmilk-INCHO-PERF NO bottle-COMP-LOC (When I was a small child I was fed milk) that was not the right type; it was like mother's milk but no, it was in a bottle
- [4] mari 'might be' e.g.
- (246) mamu mari nada nuna gandagu I might burn it by-and-by

Only five examples of mari are in the corpus but in each it is second element in the sentence, suggesting that it may properly be regardable as a clitic to the first word of the sentence.

- [5] damu 'just, only', as in
- (247) Q: minagu ninba gagay Why did you go (to that man)?

  A: damu / nada barbay I just went to ask (him something)
- (248) damu ninba midirilagu You must just wait (here for me)
- [6] nuri 'in turn':
- (249) naga nuna burbay nuri I'll hit him back
- [7] na:ra 'can't do (despite trying)
- (250) dumuburu muguru / ŋa:ra nada gunday beef-ABS hard-ABS PARTICLE lsg-A bite-UNMKD The meat is hard, I can't bite it

There is also a transitive verb na: camba-'try to do, but fail' e.g.

(251) ŋa:rambay ŋaga wagun gungari fail-UNMKD lsg-A tree-ABS cut-UNMKD I tried to cut the tree but couldn't

Six of these particles -  $\eta$ aru, wara, mari, gamu,  $\eta$ uri and  $\eta$ a: $\tau$ a - appear with similar or identical meaning in Dyirbal (Dixon 1972:118-21).

## 4.11 QUESTIONS

We have mentioned the various interrogatives used in non-polar questions:

```
mina 'what' - 3.1.5, 4.9 (and minan 'how many' - 3.1.5); minagu 'what-DAT' means 'what for' or 'why' - see Text 5 line 22, Text 8 line 2 and Text 9 lines 8 and 10.

na:n- 'who' - 3.4.1, 3.4.2.

wanga- 'where, when' - 3.4.3, 3.3, 4.9
```

There is no segmental indicator of polar questions in Wargamay; these are simply shown by final rising intonation (and also, of course, by various extralinguistic expressions and gestures).

### 4.12 INTERJECTIONS

Interjections either make up a complete utterance, or else normally begin a sentence. Those encountered are:

```
W maya, B biyay 'no' - see (242-3) nayi 'yes' gawu 'come on!' gala 'try again' quli exclamation when startled.
```

# 5. HISTORICAL DEVELOPMENT

There are a number of remarkable features of Wargamay grammar, when measured against the normal patterns encountered in languages of the Australian family. Firstly, every Australian language clearly distinguishes transitive from intransitive verbal stems, and almost every language has two or more distinct verbal conjugations, but Wargamay is the only example known to me where transitivity classes and conjugation classes exactly coincide. The second noteworthy feature is the free occurrence of 'transitive stems' with either transitive or intransitive inflectional allomorphs, while intransitive stems are confined to intransitive inflections.

In this chapter we compare Wargamay with the prevailing patterns found in Dyirbal and in other Australian languages, and attempt to explain the evolution of these two features. We also try to explain the occurrence of -lagu as intransi-

tive allomorph of the purposive inflection, and suggest that the -I- in this form is a reflex of the transitive conjugation marker. Finally, we speculate on the likely direction Wargamay might move in if the changes that have begun were carried to a logical conclusion.

## 5.1 NOTEWORTHY FEATURES OF WARGAMAY

5.1.1 TRANSITIVITY CLASSES AND CONJUGATION CLASSES. The typical situation in an Australian language is for each verbal root, and each derived verbal stem, to have fixed transitivity. That is, it is either intransitive, and must occur with an S NP, or it is transitive, and occurs with an A NP or an O NP. (These types of NP are easily recognisable from the case inflection appropriate to nouns and to pronouns in S, A and O functions respectively.) A transitive stem can usually be derived from an intransitive root, and an intransitive stem from a transitive root, but this will always be marked by a derivational affix.

We can illustrate from the Giramay dialect of Dyirbal (which has a paradigm for first and second person pronouns that is almost identical to that for Wargamay, and similar nominal case inflections). The intransitive verb yugara-y 'swim' can only occur in an intransitive construction, as (252-3), and not in the transitive (253-4).

- (252) bayi yara yugaranu The man is swimming
- (253) nayba yugaranu I am swimming
- \*(254) bangul yarangu balan dada yugaranu
- \*(255) nada nina yugaranu

Whereas the transitive verb gunba-I 'cut' can only occur in a transitive construction, (258-9), never in intransitives, (256-7).

- \*(256) bayi yara gunban
- \*(257) nayba gunban
- (258) bangul yarangu bala yugu gunban The man cut the tree
- (259) naga nina gunban I cut you

(Note that (256) could be an elliptical version of a transitive sentence with the A NP deleted, 'The man was cut (by someone)'. This interpretation is possible since absolutive case marks either S or O function. It is the unacceptability of (257) which indicates that gunba-I cannot occur in an intransitive construction.)

We can form a derived transitive stem yugaraymba-| 'swim with' by adding the comitative suffix -mba-|:

- (260) bangul yarangu balan dada yugaraymban The man is swimming with the child
- (261)  $\eta$ ada  $\eta$ ina yugaraymban I am swimming with you

And similarly the reflexive stem gunbari-y will function intransitively:

- (262) bayi yara gunbaripu The man cut himself
- (263) ŋayba gunbaripu I cut myself

I have chosen to use two verbs that also occur in Wargamay, yugara-is intransitive in Wargamay, and can only occur in intransitive constructions - compare (130-2) with (252-3), gunba- is in the complementary Wargamay class - that we have called 'transitive' - and can occur in either transitive or intransitive constructions. Compare (256-9) with (138) and (141) above.

The point we are making is that in most Australian languages a verb is strictly categorised as transitive or intransitive. We do not come up against the difficulty involved with the English verb eat, for instance. Eat is clearly transitive in I have eaten lunch but it also occurs in grammatical sentences like I have eaten. It is not clear whether it is functioning intransitively in the latter case (as in I have slept) or whether I have eaten is a reduced form of a transitive sentence, with the O NP being nonspecified in this instance.

Wargamay does have two mutually exclusive transitivity classes; as for other Australian languages it is a straightforward matter to decide which class any given stem belongs to. It differs from other languages in that the transitive class can function in either type of construction whereas the intransitive class cannot. We return to this point in 5.1.2.

The second type of classification of verbal stem that is encountered in almost all Australian languages is into conjugation classes. There are usually two open classes, one whose members are predominantly transitive and the other with predominantly intransitive membership. Some languages also have a number of smaller, closed conjugations, often involving mostly monosyllabic roots (Nyawaygi is a language of this type).

Generally, the most revealing analysis of verbal forms in Australian languages is to take the root to end in a vowel, and to recognise a 'conjugation marker' morpheme that intrudes between stem and most suffixes. For instance, the forms for four out of the seven verbal inflections in Yidin are (cf. Dixon 1977a:207)

	<pre>-n conjugation (56% intransitive)</pre>	-  conjugation (81% transitive)	-p conjugation (87% transitive)
	(Jow Inclansitive)	(01% Clansicive)	(01% CLAUSICIVE)
present-future	<b>−</b> 0	-1	<b>-</b> C
past	<b>-</b> ɲu	<b>−</b> l+ɲu	<del>-</del> Ը <b>+</b> րս
purposive	-na	-l+na	-[+na
'lest'	<b>-n+</b> gi	-I+gi	−C+di

We can recognise past tense as -nu, purposive inflection as -na and 'lest' as -di. The conjugation markers -I- and -cintervene between stem and each of these three suffixes whereas the -n- marker only occurs before 'lest'.

But, typically, not every suffix can be explained in this way. The most frequent and important inflections may not show a conjugation marker (in synchronic analysis at least) or may have other irregularities. Thus 'present-past' in Yidin has -n in the -n conjugation but -1 and -r (appar-

ently, just the conjugation markers) in the other two cases.

The combination of regular 'conjugation marker plus invariable suffix' for some categories, with irregularities in the case of the more frequent inflections, is well exemplified in the Giramay dialect of Dyirbal:

	-y conjugation	-l conjugation	
	(80% intransitive)	(80% transitive)	
present-past	<b>−</b> ɲu	<b>-</b> n	
future	-n+gay	-I+gay	
purposive	-y+gu	-li	
participial	-y+muŋa	−l+muŋa	
repetitive aspect	-n-gani-y	-l-gani-y	

In this paradigm the invariable morphemes -day future, -muŋa participial and -gani-y repetitive aspect are preceded by marker -I- for the second conjugation and by either -n- or -y- in the first column. One purposive allomorph can be segmented into -y+gu (the -gu recurring in Wargamay, and in many other Australian languages) but the -Ii is not susceptible to analysis (there is no record of a purposive -i). And present-past forms -pu~-n do not relate, in a synchronic analysis, to the conjugation markers (although there is evidence that -pu<\*-y+pu and -n<\*-I+pu - see Dixon 1972:354-8).

Now the open conjugation which has predominantly transitive membership has, in a wide range of languages from every part of the continent, a conjugation marker -I-, as in the Yidin and Dyirbal paradigms just given. The other recurrent open conjugation, with mostly intransitive membership, has as conjugation marker sometimes -y-, occasionally -n- (or even -y-~-n- as in Dyirbal), and often  $\phi$ .

Wargamay does have two conjugational patterns, corresponding to the Australian norm. And examination of Table 3.3 shows that there are grounds for recognising -I- as conjugation marker for the transitive column, contrasting with  $\phi$  in the corresponding intransitive forms (3.5.2).

What is unusual about the W dialect of Wargamay is the exact coincidence of transitivity with conjugation classes. Every intransitive verb occurs only with allomorphs from the left-hand column of Table 3.3 (with conjugation marker  $\phi$ ); every transitive verb occurs predominantly with allomorphs from the right-hand column (conjugation marker -I) although it can also function intransitively and then takes allomorphs from the left-hand column. It appears that the W dialect has reassigned conjugational membership for those items that are exceptions in related languages. We mentioned in 3.5.3 that intransitive bungi 'lie down' belongs to the -I conjugation in Dyirbal, but it takes only intransitive inflections in W. (The Biyay dialect, in contrast, appears not to have undertaken this reassignment and in B bungistill takes inflections from the transitive column of Table 3.3, although it only functions intransitively.)

In summary, whereas most Australian languages show statistical correlation between transitivity and conjugational classes, the W dialect is a unique example of conjugational and transitivity classes exactly coinciding.

5.1.2 DOUBLE TRANSITIVITY. A survey of 'ergative languages' (both inside and outside of Australia) suggests that they tend to show stricter transitivity than 'accusative languages'. That is, a verb in an ergative language will normally be classified as one and only one of intransitive, transitive, ditransitive, and so on; whereas a verb in an accusative language may have more fluid transitivity membership and be able to occur equally easily with one or two (or three) core NPs. It will pay us to look into possible reasons for this phenomenon before considering in more detail the ability of 'transitive verbs' in Wargamay to function in transitive or in intransitive constructions.

First note that a language may typically have a number of pairs of verbs that have the same (or almost the same) semantic content, but differ in transitivity. We can exemplify from Dyirbal (Dixon 1972:296-9):

transiti	ve	intransi	tive
buwa-y	'tell'	wurba-y	'talk, speak'
ganga-y	'eat'	manga-y	'eat (to appease hunger)'
banga-1	'follow'	mari-l	'follow'
bundi-I	'take out'	mavi-I	'come out'

What could be more natural than for the transitive and intransitive members of such a pair to have the same form and to differ only in conjugational membership. There are, in fact, just five such pairs known for Dyirbal; with -I conjugation inflectional allomorphs they function transitively and with -y conjugation allomorphs they function intransitively. These pairs include (Dixon 1972:315):

```
transitive intransitive
yalama-| 'do like this to' yalama-y 'do like this'
giba-| 'scratch, scrape' giba-y 'scratch (oneself)'
ŋaba-| 'immerse in water' ŋaba-y 'bathe'
```

A simple event could be described using either the transitive or the intransitive member of a pair:

(264) bangul yanangu balan dada buwanu The man told the child

(265) bayi yara wurbanu The man spoke

Most transitive-intransitive pairs involve semantic identification of A and S NPs as here: the A NP, bangul yarangu, in (264) and the S NP, bayi yara, in (265) are coreferential. (Note that not all pairs involve S  $\equiv$  A identification. In fact two of the pairs just quoted are of the S  $\equiv$  O type - thus he took it out (of the hole)/it came out (of the hole) and he immersed her in water/she bathed. But S  $\equiv$  O pairs are outnumbered by S  $\equiv$  A pairs in Dyirbal and it is likely that S  $\equiv$  O items are greatly outnumbered by S  $\equiv$  A pairs in most other languages.)

Suppose that a single verb root can function either transitively or intransitively (and that it is of the majority syntactic type  $S \equiv A$ ). That is, in an 'accusative language' it can occur either with just a nominative (S) NP, or with both a nominative (A) and an accusative (O) NP. It is likely that an NP could be deleted from a transitive sentence, so that if we encounter

# (266) 'alligator'-NOM 'eat'-PAST

we could not be sure whether it was a complete intransitive sentence, or an elliptical form of a transitive construction with the object (which would be in accusative case) omitted. But in the case of a nominative-accusative language this syntactic indeterminacy is semantically quite inconsequential. In either case (266) would be translated by 'the alligator ate'. That is, there is no possibility of semantic confusion.

Consider the corresponding example in an 'ergative language'. Suppose that a verb could occur either with just an absolutive (S) NP, or with both an ergative (A) and an absolutive (O) NP; and that an NP can be omitted from the surface representation of a transitive sentence. Then

# (267) 'alligator'-ABS 'eat'-PAST

is ambiguous between a reading where 'alligator'-ABS is the S NP, or where it is the O NP in a transitive construction (with deleted A NP). In this case the syntactic ambiguity leads to a real semantic impasse - in the one case (267) means 'the alligator ate', and in the other it indicates that '(something) ate the alligator'.

We thus see that the consequences of allowing verbs to have fluid transitivity can lead to unacceptable semantic ambiguity for a language with ergative case marking (but not to the same extent if the case marking follows a nominative-accusative paradigm). This is likely to be at least one reason why ergative languages tend to have a fairly rigid assignment of verbal roots into transitivity classes.

Of course a verb could be permitted to function either transitively or intransitively if it took a different set of conjugational affixes in the two functions (ideally, there would have to be a distinct allomorph of each inflection for the two conjugations). In this case transitivity would be inferrable from conjugation; the meaning of a sentence like (267) would be unequivocably known on the basis of whether 'transitive' or 'intransitive' allomorph of past tense were used.

In most Australian languages transitivity correlates statistically with conjugation class but does not coincide with it; that is, transitivity can not definitely be inferred from conjugational membership. This may in part account for the small number of transitive/intransitive pairs with the same form (as Dyirbal yalama-I/yalama-y) in comparison with the larger number of pairs with different forms for intransitive and transitive function (e.g. Dyirbal buwa-y/wurba-y).

But in the W dialect of Wargamay transitivity does coincide with conjugation. The type of construction involved can be inferred from the conjugational class of the verbending. It is, in view of this, perfectly reasonable that roots from the 'transitive set' should all be 'double transitivity verbs' (like the five pairs known for Dyirbal).

(There may be a connection between the *degree* of correlation between transitivity and conjugation classes in a given language, and the *number* of verb roots which can fun-

ction transitively or intransitively. Thus Yidin has a relatively low degree of correlation - 81% of -1 conjugation and 87% of -0 conjugation roots are transitive, but only 56% of -n conjugation roots are intransitive. Yidin has no verbal roots that can function transitively or intransitively according as they take different conjugational endings. Dyirbal has a better correlation - about 80% of -1 conjugation roots are transitive and around 80% of -y conjugation roots are intransitive; here there are five transitive/intransitive pairs. Then Wargamay has coincidence of conjugation and transitivity classes, and two-thirds of its verbs (i.e. all or almost all those in the 'transitive set') have double transitivity.)

It will be seen from Table 3.3 that each Wargamay inflection has different allomorphs in the intransitive and transitive columns excepting 'subordinate'-pu and the most frequent ending of all, 'unmarked aspect'-y. If a 'transitive root' is in one of these inflections a Wargamay sentence like (267) is indeed ambiguous, with the two possible readings being completely opposite in meaning. (This has already been pointed out in 4.2, and in the discussion of (116) in 4.1.1.)

There is, however, one further factor that mitigates possibilities of this sort. Nominals in Wargamay follow an absolutive-ergative pattern but pronouns do not. The singular first and second person pronouns have in fact distinct forms for all three of the major syntactic functions, S, A and O. We are thus only likely to find ambiguity of the type exemplified in (267) if the verb is in unmarked or subordinate inflection (and in the latter case there may well be other clues in the construction to help resolve things) and if the single NP is a nominal or the third person singular pronoun. (There  $is\ still\ a$  real possibility of confusion; and it seems to be the price that must be paid for the extensions and generalisations that have recently taken place in Wargamay grammar - 5.3.)

One important question to ask about Wargamay is why, although the set of 'transitive roots' can occur in either transitive or intransitive constructions (with the appropriate inflectional allomorphs), the set of intransitive verbs is restricted to intransitive constructions. If transitivity is inferrable from conjugational ending why should the property of 'double transitivity' be restricted to only two-thirds of the verbs, and not extended to apply to every verb in the lexicon?

This question is in essence a diachronic enquiry. From comparison with other Australian languages we infer that the 'transitive roots' in Wargamay - which correspond to verbs that can only function transitively in other languages - must at one time have been confined to occurrence in transitive constructions. Their function has been extended so that they now also function in intransitive constructions, taking intransitive inflections. What has motivated this generalisation? And why have intransitive roots not had their function extended analogously, to allow them to occur with transitive inflection in transitive constructions? We return to these two questions in 5.3 below.

## 5.2 SYNTACTIC CONSTRAINTS IN DYIRBAL AND WARGAMAY

In Dyirbal two clauses can be coordinated if they have a common NP which is in S or O function in each clause (that is, there are four possibilities: S-S, S-O, O-S and O-O). If the NP involves only nominals they must be in absolutive case in each clause - which is the reason this type of constraint has been referred to as an example of 'absolutive-ergative' syntax (but note that the S=O constraint also applies if the common NP involves pronouns, which do not have the same form for S and O functions - Dixon 1972:130-4).

The same constraint applies to the formation of complement clauses in Dyirbal (these are subordinate clauses whose verb bears the purposive inflection). Thus (quoting examples in the Giramay dialect), from

- (268) bayi yara banaganu The man returned
- (269) bayi yara bangun gumburu pundali For the woman to kiss the man we can derive the complement construction:
- (270) bayi yara banaganu bangun gumburu nungali The man returned to be kissed by the woman

Here bayi ya $\Gamma$ a is the S NP in (268) and O NP in (269), thus satisfying the syntactic condition on coordination/complementation.

However, (268) and

(271) balan gumbul bangul yarangu nungali For the man to kiss the

cannot be simply combined, since the common NP bayi yara is in S function in (268) but in A function (showing ergative case) for (271).

In cases such as this Dyirbal derives an antipassive version of a transitive sentence – the deep A NP goes into surface S function, the deep O NP into dative (or, occasionally, into instrumental-ergative case) case, and the verb takes the derivational affix  $-I+(\eta)a-y$  (onto an -I conjugation stem)~-na-y (onto a -y conjugation stem). Thus from (271) is derived:

- (272) bayi yara bagun gumbulgu nungalaygu <=(271)> where bagun gumbulgu is in dative case. Thus (268) and (272) can be combined to form
- (273) bayi yara banaganu bagun gumbulgu nungalaygu The man returned to kiss the woman

Note that the antipassive suffix  $-I+(\eta)a-y\sim-na-y$  derives an intransitive stem that takes the full set of derivational and inflectional possibilities. For instance:

# derived

The occurrence of  $-\eta$ - in the antipassive suffix is a dialect-determined phenomenon. The northerly Mamu dialect always includes  $-\eta$ -, the central Dyirbal dialect can include or omit  $-\eta$ -, whereas Giramay, the most southerly dialect, obligatorily omits it. We thus get:

Mamu dialect pungalna-y
Dyirbal dialect pungal(n)a-y
Giramay dialect pungala-y

If we were writing a grammar of the Giramay dialect alone we should doubtless set up the antipassive suffix (onto an -I conjugation stem) as simple -a-y, preceded by the conjugation marker -I-. But dealing with the language as a whole we prefer to posit a canonical form - $\eta$ a-y, and then state a rule of '- $\eta$ - dropping' that is optional for the Dyirbal dialect but obligatory in Giramay.

The syntactic constraint on complementation in Wargamay is identical to that in Dyirbal. There must be a common  $\overline{NP}$  that is in S or O function in both main and subordinate clauses (4.3). That is, from

- (274) ma: I banay The man returned and
- (275) ma: I nulmburungu nu:ndagu For the woman to kiss the man is derived:
- (276) ma: I banay nulmburungu nu:ndagu The man returned to be kissed by the woman

nu:nga 'to kiss' belongs to the transitive set of verbs in Wargamay and appears most frequently in transitive constructions, like (275). However, if a sentence like 'for the man to kiss the woman' is required to be joined to (274) then pu:nga must be put into an intransitive construction:

- (277) ma: I  $\eta$ ulmbu $\eta$ ugu  $\eta$ u:  $\eta$ dalagu For the man to kiss the woman yielding
- (278) ma: I banay nulmburugu nu:ngalagu The man returned to kiss the woman

Thus the fact that the NP which is subject of the intransitive main clause is deep transitive subject (A) for the complement clause is marked in different ways in the Dyirbal sentence (273) and in the Wargamay sentence (278). In (273) the verb shows antipassive derivational affix  $-(\eta)$ a-y whereas in (278) it simply takes the intransitive allomorph of purposive, -lagu. When  $-(\eta)$ a-y is absent - as in Dyirbal (271) - or when puinga takes the purposive allomorph from the transitive column of Table 3.3 - as in Wargamay (276) - then the main clause S is understood to be identified with the deep transitive object (0).

# 5.3 DIACHRONIC CHANGES IN WARGAMAY

It is worthwhile carefully comparing the forms of the verb in a complement clause whose deep A NP is coreferential

with the main clause S or O NP - that is, in a sentence like (273) or (278). We can compare these forms over the three dialects of Dyirbal, in north-to-south order, and in Dyirbal's southerly neighbour Wargamay:

Dyirbal { Mamu dialect pundalnaygu pundalaygu pundalaygu pundalaygu pundalagu pundalagu

We have purposely chosen the cognate roots <code>punga-I</code> and <code>pu:nga-.</code> The only other difference between the Giramay and Wargamay forms is the absence of <code>-y-</code> in the latter. But <code>-y-</code> is a conjugation marker in the Giramay form and we know that the intransitive conjugation in Wargamay has  $\phi$  marker. In view of this, are the forms in Giramay and Wargamay not grammatically identical?

In fact they are not. Morphemic segmentation yields

Giramay punga-l-a-y-gu kiss-CONJ MARKER-ANTIPASSIVE-CONJ MARKER-PURPOSIVE

whereas we cannot go beyond

Wargamay pu:nga-lagu kiss-PURPOSIVE

In Wargamay -lagu is simply the allomorph of the purposive inflection onto the verb in an intransitive construction (whether the verb belongs to the intransitive or the transitive set). An example of -lagu onto an intransitive root is in

(279) ma: I banay yugaralagu The man returned to swim

It is impossible to obtain -la- followed by any other inflection (thus \*-lay, for instance, is quite unacceptable as a verbal ending); so -lagu cannot be segmented in terms of a synchronic analysis of Wargamay. And while Giramay pundalaygu and Wargamay pundalagu are almost identical in form, the first can be analysed into five morphemes and the second only into root plus -lagu.

However, the similarity between these Giramay and Wargamay forms is significant, and surely suggests that there may be a diachronic connection between them.

Let us look again at those verbal affixes in W and B that involve --:

	intransitive	transitive
negative imperative	-ga	- I ga
irrealis	-ma	-lma
purposive	-lagu	−gu
continuative derivational suffix	W -bali-	-Igani-
	B -ni-	-lani-

There are four occurrences of -I- as 'conjugation marker' in the transitive column (we suggested in 3.5.3 \*-gani>-ni and \*-Igani>-lani for the continuative forms in B). The odd man out here is -Iagu, where an -I- appears in the intransitive column, but not on the transitive side.

Now the -I- in -lagu might be quite unconnected with the transitive conjugation marker. On the other hand, the simi-

larity between Giramay pundalaygu and Wargamay pundalagu - forms which fill the same syntactic slot in exactly parallel construction types - suggests that it may be worthwhile pursuing the hypothesis that there is a relation here.

We will posit a hypothetical earlier stage of Wargamay (in which it is syntactically more like its neighbours than is the modern language) and then investigate whether any natural series of changes could yield the modern system. Firstly consider, at some time in the past:

STAGE A

- (i) Like other Australian languages, each verbal stem was strictly specified for transitivity. A transitive form could only occur in a transitive construction, just as an intransitive form could only appear in an intransitive construction (any other possibility had to involve explicit syntactic derivation, morphologically marked by an appropriate affix).
- (ii) As in other Australian languages, conjugation classes correlated statistically with, but did not totally coincide with, transitivity classes.
- (iii) Like modern Wargamay and Dyirbal, Stage A had an 'absolutive-ergative'-type syntactic constraint on coreferential NPs in complement constructions. That is, the surface S or O NP of the main clause had to be coreferential with the surface S or O NP of the subordinate clause (and the latter token could then be deleted).

In order to satisfy (iii), within the restrictions imposed by (i), pre-Wargamay would have had to have a transformation that put a deep A NP into surface S or O function. The most likely possibility is an antipassive construction, parallel to that in modern Dyirbal.

The Dyirbal antipassive was alluded to in 5.2. The deep A NP goes into surface S function, deep O NP takes dative or instrumental(-ergative) inflection, and the verb is marked by the antipassive derivational affix  $-|+(\eta)a-y--\eta a-y|$ . Thus a Dyirbal transitive construction such as (quoting Giramay forms, with verbs in present-past inflection):

- (281)  $\eta$ aga balan gumbul  $\eta$ ungan I kissed the woman can be transformed into
- (282) bayi yaça{bagun gumbulgu}nundalanu <=(280)>

or

(283) ŋayba {bagun gumbulgu}nungalanu <=(281)>

respectively.

Now in Dyirbal an antipassive construction will only normally appear in a non-initial clause, and it is used in order to meet the coreferentiality demands of coordinate constructions (thus (282) could be the second clause in

'the man returned and kissed the woman'). Most frequently the verb in such a non-initial clause will be in purposive inflection, marking a complement construction, as (273). (And whereas the deep O NP can be in dative or in instrumental(-ergative) inflection in an antipassive construction if the verb is not in purposive inflection, if the verb takes purposive inflection -gu then this NP can only be in dative case, also realised by -gu. See Dixon 1972:69, 170-6.) An important point here is that while the *overall* most frequent inflection on a verb root is present-past -pu~-n, the most commonly encountered inflection on an antipassive stem (involving derivational affix -|(n)a-y~-na-y) is undoubtedly purposive -y+gu.

Suppose, for the sake of exemplification, that Wargamay had an antipassive derivational affix similar to that in Dyirbal, with form -a- preceded by the conjugation marker -I-. We would then have had, for 'the man returned to kiss the woman':

(284) ma:l banay դաlmburաgu դա:ngalagu

This is identical to the attested modern construction, (278). However, we are supposing that at Stage A the verb was segmentable into pu:pga+I+a+gu. That is, we posit an original system of verbal inflections that would have been, in part:

	predominantly intransitive	predominantly transitive
	conjugation	conjugation
irrealis	-ma	-Ima
purposive	−gu	-gu
pos.imperative	e <b>-</b> ga	<b>-</b> ya

Our suggestion is that antipassive stems, ending in -la- would take the full range of intransitive inflections. Thus, increments to the root would comprise:

(A)	derived		
	intransitive	antipassive	transitive
	root	stem	root
irrealis	-ma	-l+a+ma	-1+ma
purposive	-gu	-l+a+gu	−gu
pos.imperative	e <b>-</b> ga	-l+a+ga	<b>-</b> ya

So that typical complement sentences would be (284), with a (deep) transitive complement clause, and

(285) ma: I banay pugigu The man returned to dance with a (deep) intransitive complement clause.

## STAGE B

Sentences (284) and (285) are parallel constructions, and in each case the complement clause is intransitive at the surface level. It would thus be quite possible for the ending on the verb in (284) to be generalised, so that it also functioned as the ending on the verb in (285). We are suggesting that -lagu replaced -gu as the purposive inflection for intransitive verbs. Paradigm A would then be superceded by:

(B)	derived		
	intransitive	antipassive	transitive
	root	stem	root
irrealis	-ma	-l+a+ma	-l+ma
purposive	-lagu	-1+a+gu	-gu
pos.imperative	e <b>-</b> ga	-1+a+ga	<b>-</b> ya

The most frequent type of complement construction is one in which the underlying A NP of the subordinate clause is coreferential with the S or O NP of the main clause (indeed, this is referred to as the 'favourite construction' in 4.3.3 above, and also in my grammar of Dyirbal - Dixon 1972: 73-4); thus, -lagu would probably have been the commonest ending on a complement clause verb. This may have been part of the explanation for why -lagu was generalised to replace -gu in the left-hand column. We can also note that -gu could scarcely have been generalised from the left-hand column to replace -lagu in the middle column without a form like pu:nga-gu becoming irretrievably ambiguous between the interpretation as a simple verb in a transitive sentence, e.g. (275-6), and that as the verb in a derived antipassive intransitive construction, like (277-8).

At this stage-lagu would have become the purposive inflection on intransitive roots in complement clauses, like (279), and also in main clauses, like (76-8) in 3.5.4. A crucial point here is that in an antipassive clause-lagu is segmentable into transitive conjugation marker-l-, plus antipassive derivational suffix -a-, plus purposive-gu, whereas with intransitive roots-lagu is functioning as a simple morph, the (unanalysable) intransitive allomorph of purposive.

STAGE C

The next obvious generalisation (or, really, simplification) is to have just one set of forms for the first and second columns in the paradigm. We have suggested that antipassive -lagu was extended to the intransitive column, partly because of its greater frequency. But for the other verbal inflections (irrealis, imperative, and so on) the intransitive allomorphs would be much more frequent than the antipassive variety; and, unlike purposive, all of the other inflections (leaving aside the unmarked ending -y) do have different forms in the left-hand and right-hand columns. We might thus expect that for inflections other than purposive (and also for the 'continuative' derivational suffix), the intransitive allomorph might be generalised to the second column, giving:

(C)	intransitive root in	transitive root in	
	intransitive construction	intransitive construction	transitive construction
irrealis	_m	a	-Ima
purposive	-lagu		<b>−</b> gu
pos.imperative	-g	<b>a</b>	<b>-</b> ya~ø

and so on.

This would only work if there were, at approximately the same time, a tidying-up of conjugation-transitivity membership. Exceptional items - transitive verbs in the

 $\phi$  conjugation or intransitive stems in the -I class - would have to be reassigned to the majority class, if severe confusion were not to result. We can see that such a tidying-up must have taken place very recently in the W dialect, simply because it has not been completed in the B variety (in 3.5.3 we mentioned that B has a few verbs like bungi-'lie down' which take transitive inflections although they do only occur in intransitive constructions).

With the replacement of -lama by -ma, -laga by -ga and so on in the middle column, the justification for analysing -lagu into three morphemes would have disappeared; since -la only occurs in -lagu it cannot be segmented out as a distinct morpheme. Now -lagu would be felt to be indivisible, simply an allomorph of purposive, whether affixed to intransitive or to transitive roots.

(It is likely that Stage C very quickly followed Stage B; indeed the changes may have been more-or-less simultaneous, so that Stage A effectively gave way to Stage C. The original -lagu in the middle column of Paradigm A was analysed into -l+a+gu, the last element being the intransitive allomorph of purposive; once this allomorph, -gu, had been replaced by -lagu a pivotal point for the analysis of -lagu would have been lost. If, in the middle column, -lagu - and also -lama and -laga - were no longer felt to have recognisable components, what more natural than that the latter two forms should have been replaced by -ma and -ga from the left-hand column.)

This diachronic hypothesis explains the modern intransitive allomorph -lagu as being derived from the transitive conjugation marker -l-, plus -a- as a residue of an original antipassive derivational affix, plus the early intransitive allomorph of purposive, -gu. We can posit a form \*-Ca- for the antipassive suffix at Stage A (where C indicates some consonant that can occur word/affix initially). Suffixes in Wargamay, as in surrounding languages, almost invariably have canonical forms commencing with a consonant, and the change \*-I+Ca->-I+a- exactly parallels \*-I+gani>-I+ani suggested for the continuative suffix in the B dialect.

The antipassive form could have been -na-, identical to the suffix in modern Dyirbal, and then the reduction \*-I+na->-I+a- in Wargamay would exactly parallel that in Giramay. But there is no way of verifying this. Dyirbal and Wargamay do show striking similarities but there are also many differences, and there is simply not enough evidence to support their close genetic relationship (that is, to justify suggesting proto-Dyirbal-Wargamay as the ancestor of these two languages and of no others).

It does seem a little surprising that the transitive allomorph of purposive is -gu rather than -lgu, which would parallel -lma, -lga and -lgani- in the transitive column of Table 3.3. We can note, however, that Nyawaygi has a verbal system that shows important similarities to that of Wargamay; a number of the inflectional allomorphs for the -l conjugation in Nyawaygi do begin with -l (e.g. irrealis -lma, negative imperative -lgam) but in Nyawaygi - as in

modern Wargamay - the purposive inflection is just -gu in the -I conjugation. This makes it seem quite likely that at Stage A purposive was -gu for both Wargamay conjugations; indeed, this identity is one of the reasons why the intransitive inflection could scarcely have been generalised onto the middle column in the change from A to B.

In summary, we have suggested that Wargamay had a derivational process that formed an intransitive stem from a transitive root, and that this was largely motivated by the 'absolutive-ergative' syntactic constraint on complementation (and perhaps on coordination generally). Through morphological generalisation - allied to an 'elimination of exceptions' that led to an exact coincidence of conjugation and transitivity subclasses - this has developed into the possibility of using transitive verbs in either transitive or intransitive constructions, with the appropriate conjugational allomorphs in each case.

Transitive verbs occur the great majority of the time in transitive constructions; it appears that all or almost all of them can function intransitively although - for the syntactic and semantic reasons outlined at the end of 4.2 - some do so more frequently than others. A transitive verb will generally only appear in an intransitive construction in marked syntactic circumstances - to signify a reflexive relation, or to satisfy the constraint on complement constructions, and so on. There is no such syntactic reason for intransitive verbs to function transitively, and there has thus been no change to the original restriction that intransitive verbs can occur only in intransitive constructions.

(As a final note, it is worthwhile comparing the case assignment in intransitive constructions involving transitive verbs, for Wargamay, with case assignment in an antipassive construction, in Dyirbal. The deep O NP from a transitive construction in Wargamay must be in ergativeinstrumental inflection in the corresponding intransitive sentence unless the verb has purposive inflection (-laqu) in which case it can take either ergative-instrumental or The deep O NP in a Dyirbal antipassive dative (-qu) case. can be in ergative-instrumental or dative inflection unless the verb has purposive inflection (-qu) when it can only take dative inflection (-gu). This underlies the recurrent connection - first pointed out by Capell (1956:77-8) between nominal dative -gu and verbal purposive -gu. And it also emphasises that - whatever the syntax of the postulated antipassive construction in Stage A - intransitive constructions with transitive roots in modern Wargamay do not by any means bear an exact syntactic correspondence to antipassive constructions in Dyirbal.)

#### 5.4 EXAMPLES OF SEMANTICISATION

Languages typically have a number of alternations that are morphologically determined - one set of roots may take one allomorph while another set may take an allomorph of a quite different shape (with the membership of the sets

often having simply to be learnt, as a list). These alternations add nothing to the communicative function of the language but simply provide complication, and take some of the users' efforts away from the main semantic task in hand - that of communicating meaning between speaker and hearer.

There is always a tendency to eliminate irregularities and contentless alternations in order to simplify and streamline the language, and to enable its speakers to concentrate their energies on the major semantic tasks. This process of rationalisation can often proceed very slowly; typically, new irregularities crop up as old ones are being ironed out.

Wargamay, and especially the W dialect, shows a pronounced tendency (more than any of its neighbours) to do something about irregularities or morphologically-conditioned alternations. It will sometimes eliminate them; at other times it will provide reinterpretation so that they come to fulfil a useful communicative role. We can quote four examples of this tendency:

[a] Inflections on mipa 'what' (see 3.1.5).

In other languages of the area -ngu serves for both ergative and instrumental functions, and -nga for locative and aversive functions. There are sometimes two or three irregular items that take -lu in place of -ngu and -la instead of -nga; mina is a frequent member of this 'irregular subset' (see Dixon 1980a:376,495).

This is likely to have been the situation at an earlier stage of Wargamay. But the language has now taken the previously contentless alternation between -lu, -la (on mipa) and -nga, -nga (on all other nominals) and invested it with semantic power. In the case of mipa, -lu indicates instrumental and -la aversive functions, while -ngu and -nga have been generalised from the remainder of the class for ergative and locative functions. This is a paradigmatic example of morphological change, with a given morpheme being replaced - by analogic generalisation - in its primary function (ergative, locative), but retained in what was originally the secondary function (instrumental, aversive) - see Kurylowicz 1964:11.

A possible next step would be for the semantic constrast between -Iu and - $\eta$ gu, and between -Ia and - $\eta$ ga, to be generalised to all nominals.

[b] The irregular verb di:-~di:gi- 'to sit' (see 3.5.3).

Data from the B dialect suggests that in an earlier stage of Wargamay there was an irregular verb, with monosyllabic root, di:-. We showed in 3.5.3 that this appears to be in the process of being reinterpreted as a regular disyllabic form di:gi-, and that it has proceeded much further in this direction in the W than in the B dialect. Thus is an irregularity apparently in the process of being eliminated through creation of a disyllabic in place of an original monosyllabic root. (See also the comment in 3.5.3 on irregular imperatives ma:na and wuga suggesting that two more originally monosyllabic verbs, ma:- 'hold in hand' and wu- 'give', have been restructured as disyllabic roots ma:ni- and wugi- respectively.)

[c] Conjugation-transitivity iconicity

Distinct verbal conjugations are plainly a complexity that can serve no communicative function if they do not, say, coincide with transitivity classes. In Yidin, for instance, 56% of verbs in the -n conjugation are intransitive and 44% transitive; plainly no speaker could make a sure syntactic inference from conjugational class member-Wargamay has taken this morphologically-determined alternation and, by making transitivity exactly coincide with conjugation, given it an important syntactico-semantic The fact that this tidying-up has not fully taken place in the B dialect confirms that pre-Wargamay must have been like modern Yidin and Dyirbal and had only a degree of correlation between conjugation and transitivity classes. The W dialect has assigned a communicative role to this previously asemantic distinction. This has, in turn, payed the way for the fourth example of simplification in modern Wargamay.

[d] Loss of antipassive derivational affix.

It will plainly be to the advantage of a language to use the smallest number of morphemes in some grammatical task. Originally, in order to use a transitive verb in an intransitive construction - to satisfy a syntactic constraint - the antipassive derivational suffix must have been required between root and inflection. Presumably one had to say, in pre-Wargamay, something like:

(286) ninba gagaga baya-l-a-ga You go and sing!

Nowadays the transitive verb baya- can simply be used with the intransitive inflection:

(287) ninba gagaga baya-ga You go and sing!

This is a clear gain in simplicity and cannot fail to assist the communicative power of the language. It is only possible, of course, because of the coincidence of conjugation and transitivity, mentioned under [c].

We thus have four examples of the semanticisation or elimination of irregularities/alternations that had no semantic force in pre-Wargamay. (It will be seen that this tendency is most pronounced in the W dialect, although points [a] and [d] do appear also to hold for Biyay.)

#### 5.5 FUTURE SYNTACTIC DEVELOPMENT

Wargamay has not been actively spoken for some years, and is only 'remembered' by the last two or three users. It will thus not be possible to observe the further changes that would surely have occurred, following on from the sequence outlined in 5.3. Would 'intransitive verbs' have been generalised also to appear in transitive constructions, taking transitive inflections? If this happened, every verb in the language could appear in a construction of either transitivity type, marked by an appropriate inflection.

It is possible to do no more than speculate about the

changes that might have occurred. But one line of development - that seems to me more likely than that mentioned in the last paragraph - deserves to be briefly followed through, because of its important theoretical implications.

Recall that the developments in 5.3 were motivated by a syntactic constraint that identifies intransitive subject (S) and transitive object (O) functions. Because of this a co-referential deep A NP in a complement clause has to be placed in surface S function. This may originally have been achieved through a derivational process but is now handled by simply letting transitive verbs appear, with intransitive inflection, in intransitive constructions.

Transitive verbs still occur much more often in transitive than in intransitive constructions. But, unlike antipassive clauses in Dyirbal, an intransitive Wargamay clause involving a transitive verb can occur as an utteranceinitial main clause. Suppose that this state of affairs gradually shifted so that:

First - transitive verbs appeared more frequently in intransitive than in transitive constructions;

Then - original transitive constructions eventually ceased to be used; A forms of 1sg and 2sg pronouns ( $\eta$ ada and  $\eta$ inda) dropped out of use and the transitive allomorphs in Table 3.3 were simply discarded.

Transitive verbs would now only occur with their subject (A) NP in what we have called absolutive case - this is also used for the subject (S) of an intransitive verb - and their object (O) NP in ergative-instrumental (or perhaps, in specially marked circumstances, in dative) inflection. But this is simply a 'nominative-accusative' case system, and it would surely be appropriate to rename absolutive as 'nominative' and ergative-instrumental as 'accusative'.

Now the syntactic constraint on complement constructions, that the common NP must be in surface S or O function in each clause, would become 'the common NP must be in surface S or A function in each clause'.

More details would of course have to be worked out, but the end result is clear enough. By extending the natural set of changes described in 5.3, that were orientated towards meeting 'absolutive-ergative'-type syntactic constraints, Wargamay would change so that it was, morphologically and syntactically, a 'nominative-accusative' language!

(Some other Australian languages have followed changes of the type just described and in two instances this has led to the development of a fully nominative-accusative morphology. Discussion and further references are in Dixon 1980a:449-57, 498).

# APPENDIX - CARL LUMHOLTZ ON WARGAMAY

Lumholtz did not give any tribal or language names, but his grammatical and lexical comments clearly concern the W dialect of Wargamay with just a few intrusions from the B dialect of Wargamay and from the Giramay dialect of Dyirbal. In the left-hand column below we quote Lumholtz, providing phonemicisation and commentary on the right.

Among Cannibals, p.308-9

The language of the natives on Herbbert river is imperative and brief. A single word frequently expresses a whole sentence. 'Will you go with me?' is expressed simply by the interrogation nginta? (thou?), and the answer, 'I will stay where I am,' by karri ngipa (I remain). 'I will go home,' ngipa mittago (literally, I in respect to the hut).

The suffix go literally means 'with regard to', and is usually added to nouns to give them a verbal meaning, but is also sometimes added to verbs. The question Wainta Morbora? - that is, 'Where is Morbora?' - can be answered by saying only tityengo (he has gone hunting tityen) (wallaby), (literally, with respect to wallaby); or, for example, mittago he is at home (literally, with regard to the hut). Mottaigo means 'he is eating' (literally, with regard to eating). 'Throw him into the water, ' is expressed simply by ngallogo. As is evident, this is a very convenient suffix, as it saves a number of moods and tenses. It may also be used to express the genitive for example, toolgil tomoberogo, the bones of the ox.

There frequently is no difference between nouns, verbs, and adjectives. Kola guli 'wild, angry'; buga means wrath, angry and to get angry. Poka means smell, to smell and rotten; oito means a jest, and to jest.

'It is noon' is *vi orupi* (sun big).'It is early in the morning, ' is vi naklam (sun little). 'It is near sunset', is vi molle mongan. Kolle is a very common word. It is, in fact, used to call attention to a strange or remarkable sound, and means 'hush!', Kolle mal! 'Hush,

ninda 'you (singular)' nayba 'I'; 'karri' is not recognised by modern speakers. nayba midagu 'I camp-to'

-gu is dative-allative case with nouns, and purposive inflection with verbs in transitive sentences. wandanga 'where'

gi:gin 'wallaby' (Lumholtz's accent is clearly motivated by the long vowel) + dativeallative -qu mida+gu as above muda+gu 'eat-purposive'

nalu+gu 'water-dative/allative'

dulgil is 'bone' and dumuburu 'bullock' but genitive is -nu not -qu

'rotten, stinking'; 'oito' is not recognisable (informants suggested wudu 'nose' or wa:gi- 'laugh' when this was read to them). Verbs are in fact derived from nominals by the inchoative suffix -mbi~-bi~-i (4.9). wi: wurbi 'sun big'

vi molle mongan means 'the sun

wi: pagaram 'sun tiny'

is near the mountains' (Among Cannibals p 177); it involves mulu 'near' and

there is a strange man!' Kólle is also used to express indignation or a protest, 'far from it'. A superlative of an adjective is expressed by repetition - for example, krally-krally, 'very old'.

The vocabulary is small. The language is rich in words describing phenomena that attract the attention of the savage, but it lacks words for abstract notions. The natives, being utterly unable to generalise, have no words for kinds or classes of things, as tree, bird, fish, etc. But each variety of these things has its own name. Strange to say, there are words not only for the animals and plants which the natives themselves use, but also for such as they have no use for or interest in whatever...

On Herbert River I found, to my surprise, various names for flame and coals. *Vákkun* meant camp fire, coals, or the burning stick of wood, while the flame was called *koyilla*.

...Several tribes have three numerals, as, for instance, Herbert Vale tribe - 1 yongul, 2 yakkan, 3 karbo, 4, etc. is usually expressed by taggin (many).

munan 'mountain'. Surprisingly, in view of Lumholtz's comments, 'kolle' is not used by present-day speakers. ma: | is 'man' 'krally' was not recognised. I collected 900 words from informants who have not spoken the language actively for two score years (whereas Lumholtz only collected 140 in a year!). These comments are a reflection on Lumholtz's lack of interest in learning the language. Wargamay would certainly have had a vocabulary of at least 5-10,000 words, like every other natural language. Generic terms include ganal 'frog', windi 'snake', di:di: 'bird', da:bu 'fish', gurɗal 'bee', bangay 'spear', bari 'stone', wagun 'tree', gungul 'vegetables'. Each of these has a number of specific terms included under it. Wargamay is particularly rich in abstract nouns e.g. 'anger', 'fear', 'odour' (-giri can be suffixed to derive an adjective, or -mbi~-bi~-i to form an intransitive verb). wagun is used for tree, wood and fire. guyila was said to mean 'charcoal' by Lambert Cocky (although he did not seem very certain about this word). Note that accents here correctly identify the stressed syllable (but there is no long vowel in wagun, as

in gi:gin above).
yungul 'one', yaga 'two',

garbu 'three', dagin 'a lot'

probably one of the two interjections gawu 'come on!', gala

'try again'

Among Cannibals, pp.312-3 Commentary COLLECTION OF WORDS FROM HERBERT RIVER (q before i and  $\alpha$  pronounced hard) Allinkpa, we two nali ninba - 'we two', first person dual pronoun, plus 'you', second person singular pronoun added to mark it as 'inclusive' Ámmery, hungry namiri Ammon, breast ŋamu n Atta [Moreton Bay and Rockhampnaga, transitive subject form of ton: atta], I. first person singular pronoun Baggoro, sword, serpent-liver baquru Bállan, moon balanu W, balan B Bámbo, egg bambu Bámpa, distant bamba Bátta, take possibly bu:di- 'take, bring' Bému, brother's son bimu 'father's elder brother' Binghan, foot, footprint bingan Binna, ear bina Boongary, Dendrolagus lumholtzii bulngari 'tree-climbing kangaroo' Bórboby, battle, duels burbabay 'hit each other' Bórrogo, a variety of Pseudochirus burugu Deerbera, tomorrow possibly didalgu Dómbi-dómbi, woman dambidambi, 'old women' Era, teeth yira Etaka, tuft not recognised Evin, Calamus australis qamin Faringa, stone, rock bari+nga 'stone' plus locative inflection Gangitta, handkerchief plainly a loan from English Gilgla [the l to be pronounced gilngira with thick palatal sound], cassowary G'rauan, Megapodius tumulus girawan 'scrub hen and nest' (bird, egg, nest) -Go [suffix, Moreton Bay: -co], -gu dative-allative case inflectin regard to. ion on nouns; purposive inflection on verbs in transitive constructions. Gómbian, Echidna gumbiyan Góri, blood guŗi Hánka, whence? possibly wanda- 'where?' Káddera, opposum (Irichosurus gadara vulpecula) Kádjera, Cycas media gadira 'zamia fern' ganu 'later on today' Kainno, to-day Kainno-kainno, well, sound not recognised gaga- 'go' probably with purposive Kakavagó, go inflection -lagu

Kalló, come on!

Kamin, climbing implement gamin, a loya vine and climbing implement made from it gamu is 'water' in Giramay and HB; Kamo, water the term in W and B is ŋalu Kárbo, 3 garbu Kárri, remain not recognised Kawan, nausea gawan 'anger' Káwri, axe not recognised Kedool, cold gidul Kelan, old man, sir [word of gilan address] Kóbi, arts of witchcraft gubi, 'doctor' who practises these Kola [subst and adj], anger, guli 'wild, angry' angry Kólle, hush! not recognised Kómorbory, many, large mulgumarbari titude Kóna, excrements quna Kónka, unharmed, raw, not gunga 'unripe (vegetable), raw (meat), alive (person)' roasted possibly gundabara 'fine weather' Kóntagan, nice weather Kontáhberan, dark, dark night gundambula Koonduno, thunder gundunu Koráddan, a kind of fruit not recognised Koyilla, flame guyila 'charcoal' (?) Králly, old not recognised Kuroonguy, thirsty Nora Boyd suggested that dulngu 'throat' might have been intended; dulngu narala 'dry throat' can mean 'thirsty'. Kootjary, Talegalla lathami guydari 'scrub turkey' guygal 'long-nosed bandicoot' Kvikkal, Perameles nasuta Kvingan, evil spirit, devil guyngan 'spirit of a woman' Mah, not, no maya 'no' ma: | 'man' (not necessarily of a Mal | Moreton Bay: malar. Yelta: malle], man, especially of a strange or hostile tribe) strange and hostile tribe Mállan, hand mala Mally, good, excellent mali Mami, master not recognised Mánta, membrum virile manda 'penis' Manta korán, an oath of unthis could conceivably involve certain meaning, also a guran 'long' word of abuse Márbo, louse marbu Márgin, gun margin Mawa, crawfish Milka [verb], produce rain milga is actually a noun, referring to a piece of painted bark (in later days, iron) placed in the root of a tree just in the

water, as a 'rain-maker'. It is

mentioned by Banfield in My

Tropic Isle p.278 and Last leaves from Dunk Island p.127 Mill, eye not a Wargamay item Minná [cf. Moreton Bay: menäh], mina 'what?' Minná-minnana-gó, how in the world? mina-mina-gu 'what-REDUP-DAT' i.e. Mitta, hut mida Mogil [Moreton Bay: magul] head muga l Mólle, near mulu Móngan, mountain munan Mongan, Pseudochirus herbertensis muŋgaɲ Móttai [verb and subst.], eat, food muda- 'to eat' (only a verb) Móyo, anus Nahyee, no not recognised Naiko [verb], own ŋaygu 'my', first person singular possessive pronoun Naklam [the l to be pronounced pagaram 'tiny' with thick palatal sound, little Ngallo, water ŋalu Ngalloa, Dactylopsila trivirgata naluwa 'flying squirrel' Nginta, you ninda, transitive subject form of second person singular pronoun Ngipa, I nayba, intransitive subject form of first person singular pronoun Nongashly, only not recognised Nili, girl nayili, girls Oito, jest not recognised Oonda, see nunda- 'to see, look' Ōrupi, large wurbi Peera [subst and adj], fear, afraid bi:ra Pipu [from the English], pipe baybu Poka, hair; smell [Echuca: boka] buga 'rotten, stinking' bugan 'grassland' Pókkan, grass-land, grass Pul [verb], smell Nora Boyd suggested that this could only relate to buga 'smelly' (see above) Púlli, flea buli Sinchen, rash, syphilis not recognised Suttungo, tobacco not recognised Tággin, many, much, also the dagin 'a lot' numeral 4 Takólgoro [a word of exclamadagul 'sorry, pitiful' perhaps with an affix such as -bulu tion], poor fellow 'very' Tálgoro, human flesh dalguru '(any) meat' Tállan, tongue dalan dami is 'fat' in Giramay Tamin, fat di:qa 'sit-IMPERATIVE' Tchigga, sit Tityen, wallaby di:din 'swamp wallaby' dubula 'black pine' Tobola, a kind of fruit Tomóbero, cattle, meat dumuburu dula 'striped possum' Toollah, Pseudochirus archeri Toolgil, bone, bones dulgil

Toolgin, scrub dulgin danga- 'to drink' Toongna, drink Toongu, sweet dunu 'odour' Towdala, Orthonyx spaldingii possibly Giramay dawudala wagun, 'tree, wood, fire' Vákkun, coals Vaneera, hot banira 'sweat' Vee, sun wi: wira 'black fig' Veera, a kind of fig which grows on grass-land wi:gi 'no good' Vikku, bad Vindcheh, snake windi 'snake (generic)' Vomba, belly wumba Vónda, an edible root of a climbing bundu plant Vooly [adj], dead wula-, verb 'to die' plus unmarked aspect -y wudu or wuru Vooroo, nose Vótel, sleep wudil, adjective 'asleep' waqa 'shin' Vukka, thigh Wainta, where? wanda+nga 'where?' Yábby, Pseudochirus lemuroides Giramay yabi 'light grey possum' Yákkan, 2 yaga Yálla, remain yala 'here' yamani 'rainbow' Yamina, a monster (p 201) Yanky, a kind of fig not recognised Yárri, Dasyurus not recognised (but yari is Dasyurus maculatus in Giramay) Yári, honey Nora Boyd suggested wubiri might have been meant Yeergilingera, star yirqindara Yókkan, fog, rain yugan 'rain' Yongul, 1 yungul Yopolo, Hypsiprymnodon moschatus not recognised

## TFXTS

Texts 5-7, which were tape-recorded from John Tooth and Lambert Cocky, and Texts 8 and 9, dictated by John Tooth, are given here. These have been slightly edited, by the omission of repetitions and false starts.

Texts 1-4 were recorded by La Mont West Jr from Jimmy Johnson at Palm Island in 1964. The transcription and analysis that can be provided is not sure enough to merit inclusion here.

Tapes of Texts 1-7 (and West's transcription of Texts 1-4) have been deposited with the Australian Institute of Aboriginal Studies, P.O. Box 553, Canberra City, A.C.T., 2601, Australia.

#### TEXT 5

A story told by John Tooth about seeing a ghost after having been drinking. (Recorded 4th November 1972 at Glen

# Ruth Station; lasts $2\frac{1}{2}$ minutes.)

- 1. ma: | nada barbay / dannalagu nalungu I asked a man, for a drink.
- pulanga ga:may / ŋali ŋinba ganŋalagu ŋalungu / He said 'We'll have a drink'.
- 3. nayi / yungurangu ga:may / nayi / gannalagu 'Yes', the other man said, 'yes, (we'll) drink.'
- 4. garbu gagay / garbu ŋayba gagay / The three of us went.
- 5. ŋalu waybalangu bu:dipu / The white man had brought grog.
- 6. garbu dannabali / nalungu dannabali / gurugungu dannapu / We three were drinking, drinking liquid drinking grog.
- by-and-by nada nunday guyngan / gagabali / By-and-by I saw a female ghost. (It) was walking about.
- 8. yungurangu ma:ldu ga:may / mipa puna / The other man said (to me) 'What's that?'
- 9. minabadun / guyngan I think / guyngan / nayi / 'I don't know what. A female ghost, I think yes.' (I replied.)
- 10. maya maya maya waybala nuna / torch-giri wunabali / 'No, no, no. that's a white man. Walking about with a torch.' (Another said.)
- 11. nayi / 'Yes' (I replied)
- 12. gannabali gannabali / (We) continued drinking.
- 13. naga nunday again / I saw (it) again.
- 14. puna duwarabali / guyngan / 'That ghost, she's standing (there).'
- 15. naga birbagi / danbalagu I had jumped, to hit (it).
- 16. maya budulbigi / But no, it had disappeared.
- 17. nayba nunday / maya / I looked. There was nothing.
- 18. yaga bula ma: | bimbirigi / The two men (who were with me) had run away.
- 19. nayba bimbirigi / bi:ragiri / gagay midagu / I had run away (too) with fright; I went to the camp.
- nada barbay / nuna ma: | / dannalagu / I asked the (two) men to have a drink.
- 21. maya maya bi: cambigi nayba / 'No, no, I'm frightened' (they
  each said).
- 22. minagu / 'What of?' (I asked them).
- 23. nayba gagay / nayba bi: rambigi too / nayi / I went. I was frightened too, yes.
- 24. ŋa: ŋunday ŋaḍa / yalaŋga buduligi / I didn't see (the ghost);
   (it) had disappeared there.
- 25. nada nalu nada / banamay / I brought the drink back (to my friends).
- 26. yalanga nalu dannay / (We) drink the grog there.

Note that alcoholic drink is at first referred to by nalu ('water, any drinkable liquid') and then in line 6 is specified more explicitly as

gurugu 'grog'.

The perfect inchoative form of bugul 'vanished' was said as bugulbigi in line 16, but corrected to buguligi on playback; it was said as buguligi in line 24 (see 4.9.1).

When the three men saw the ghost for the second time they dropped the bottle and ran off (lines 18-19). At the end John Tooth returns alone to retrieve the bottle.

#### TEXT 6

A traditional myth told by John Tooth. (Recorded 5th November 1972 at Glen Ruth station; lasts  $2\frac{1}{4}$  minutes.)

The story concerns six mythical people. The two Guridala, who were good hunters, had no wives, whereas the two Warudala each had a wife called Binbiral. One day the two Guridala asked the Warudala to go and get water; while they were away the Guridala stole their wives. When the two Warudala came back they looked everywhere for Guridala and Binbiral. They heard a cooing noise that they thought might be them, but it was only two trees rubbing against each other. Then they saw all four of them way down in the Herbert Gorge. The Wagudala descended the gorge but the Guridala and their captives were on the opposite side of the river and the Wagudala could not swim. They threw stones into the water to make a bridge across, but then everything started to change. The Wagugala saw the others high up on a ridge. Then the Warudala men turned into black wallabies (warugala), Gurigala into eaglehawks (gurigala) and Binbiral into parrots (binbigal). The eaglehawks and parrots flew away, into the scrub.

Text 1, by Jimmy Johnson, is another version of the same myth. Johnson said that the sparrow-hawk taught Wajudala how to hear a hunter, and that in revenge Guridala stole the sparrow-hawk's wife and opened her vagina with a sliver of quartz.

- guridalangu / mida binday / The eaglehawk (guridala) built a camp.
- nuna gana warugala / wunabali (on playback John Tooth corrected gana to bula) The two black wallabies (warugala) were walking about.
- by-and-by nuna gi:gay nalugu / guridalangu / warudala / By-andby the eaglehawks told the black wallabies (to go) for water.
- gagay nalugu / bu:dilagu / (The black wallabies) went to fetch water.
- 5. puna gagay / (The wallabies) went out.
- 6. yubaymay / binbiralpa / (The eaglehawks) stole the parrots (binbiral) (who were the wives of the black wallabies).
- 7. warudala gawaligi / gawaligi gawaligi / nuna nuna nuna galaga / nuna durunga / The black wallabies cried out, they called out (in every direction). 'There they are, up on the ridge!'
- nali gagabali / 'We're going' (the black wallabies said to each other, as they traced a cooing noise).

- 9. maya gunbin nunga / wayumbigi / 'No, (there's just) these twisted trees rubbing together. (It) has changed into something.' (they said)
- 10. gu:ngugan / gana biray / warugalangu nunday / They (the eagle-hawks and their captives) all went down to the gorge, and were seen by the black wallabies.
- 11. pungagi dana / nalunga yugarabali / 'There they are, swimming in the water' (the wallabies exclaimed).
- 12. warugala bimbirigi / bimbirigi / The black wallabies ran (down to the bottom of the gorge).
- 13. yaluga nuna dana / guyabay duwarabali / 'They're all there, standing on the other side' (one wallaby said to the other).
- 14. minambilagu / 'What are we going to do now?' (one wallaby said).
- 15. maya damu ŋali / bari burmbiya ŋalugu / 'We must just chuck stones into the water (to make a bridge', the other wallaby replied).
- 16. nali ninba gagalagudan / 'You and I must go now' (one eaglehawk said to the other).
- 17. maya puna *all together* / puna gagabali durunga / bamba *now* / bamba bamba / na: nunday / (The wallabies watch the eaglehawks progress and say to each other:) 'They're all going along the ridge now. Now they're a long way off, and no longer visible.'
- 18. mipa puna wayuwayumbigi / warudalambigi / They (the eaglehawks) changed into something. (And the Warudala changed from men) into black wallabies.
- 19. puna guridala yinbi / binbiral yinbi too / yalanga buduligi / The eaglehawks flew away, and the parrots flew away too. They vanished from sight there.

#### TEXT 7

A reminiscence of massacres by the native police, as told to Lambert Cocky by his father and grandfather. (Recorded by Lambert Cocky, 6th November 1972 at Sheahan's farm near Ingham; lasts 2 minutes.)

- ŋayba bimbirigi / yalanda bulimanda / dulgingu / bulimandu ŋana wuŋay / bundagu ŋana maybulndu / I had run away, from the policeman here, into the scrub. The policeman was chasing me, to shoot me with a rifle.
- maya nulanga draygangu milbalgani naygungu / bundagu nana / The trackers would show (the white police where) I (was) so that (they) could shoot me.
- ŋana yubagi / dulgindulgingu / gawaligi / We all ran away, from scrub to scrub, calling out.
- nuna drayga nanbalgani / bulimandu / The policeman would follow the trackers.
- pagu gulgingu / muŋanmuŋangu ŋana gagay / We went into this scrub, and then (from hilltop to scrub) to hilltop.

- 6. maya nuna bulimandu nanbalgani / bunday yungura / But no, the policeman would follow them (my tribesmen), and shoot one.
- 7. nayba nunga dagigi / I fell down.
- 8. galaga gagay munangu / gaymbiri gaymbiri nanana wunalday bulimandu / (We) went up the hill, but the policeman chased us everywhere.
- drayga / gawaligi ŋanangu / wanga ŋinba / The tracker called out to us 'Where are you?'
- 10. maya nana na: na:ray/... nana bi:cambigi / No, we didn't listen, we were frightened.
- 11. bulimandu bungalgani / ŋaṇa / The policeman would always shoot at me.
- 12. galaga ŋana gagay / We went up.
- 13. nunga nayba / ninda na:ra gu:na[a / gu:na[anin / where na:ralma nana / I'm that one. You listen to (this story) from a long time ago. (Now) you'll listen to me (telling another story).
- 14. gi:rigin / na:ra nana / gi:rigin nayba Hawkins-Creek-miri / yalanga nanana bulimandu narngay / Romulus (gi:rigin) listen to me I'm Romulus from Hawkins' Creek. The policemen rushed us there.
- 15. nanbay danana ma: | / malanmalan / galaga / munangu / gala gagay / dulgingu / gaymbiri danana wunalday / bunday / bunday / bulimandu / (Policemen) followed all the (Aboriginal) men, up the rivers, up the hills. They went into the scrub, and were chased everywhere (by the policemen); and shot by the policemen.

Note that Romulus was an Aboriginal leader during Lambert Cocky's youth.

## TEXT 8

An ad hoc conversation dictated by John Tooth (at Glen Ruth, 13th December 1974).

- 1. A: nayba balganda dumbagi / I went into the house
- 2. B: mipagu / What for?
- 3. A: nulmburugu nundalagu / To see the woman.
- 4. B: ninba mulgara / You're game!
- 5. A: minala nayba bi: nambilagu / What should I be frightened of?
- 6. B: ma: Indu jina burbalma / The man (belonging to that woman) might hit you.
- A: maya / ŋulmburu ŋada yungul daymbay / No, I only found one woman there (no men)
- 8. B: nina nu:nday / Did (she) kiss you?
- 9. A: nayi / nada mala ma:ni / nada yubaymay / Yes. I grabbed (her) hand, I stole (her) away.
- 10. B: wandagu ninda bu:di/ Where did you take (her) to?

- 11. A: gungari nayba gagay / nalwagirigu / waybalangu nana / gulbunmay nana / I went north to Abergowrie (nalwagiri). And the white man married me (to the woman).
- 12. B: biridingu ninda / You're a bugger (marrying another man's woman).
- 13. B: ninba mulgana / You're game.
- 14. A: nayi Yes.

#### TEXT 9

An ad hoc conversation dictated by John Tooth (at Glen Ruth, 8th November 1977).

- 1. A: ninba mu: nambiga / You hide!
- 2. B: mipala / For fear of what?
- 3. A: waybalangu nina nundalma / Lest the white man see you.
- 4. A: ninba yubaybinu / minambinu ninba bimbirigi / You ran away (from him). Why did you run away?
- 5. A: waybalangu nana burbanu / The white man hit me.
- 6. B: minala gina bugbay / What did (he) hit you over?
- 7. A: yaramanda ŋana burbay / (He) hit me over a horse.
- 8. B: minagu ninda burbay / What did you hit (the horse) for?
- 9. A: yaramandu nana burmbi / The horse threw me.
- 10. B: puŋa wayabala gawanbigi / mipagu / Why did the white man get wild?
- 11. A: gada yaraman mugal burbay / I hit the horse in the head.
- 12. A: nulmurunga nayba yubaybigi / (That) night I ran away.
- 13. A: yala nana waybalangu daymbay / The white man found me here.
- 14. A: nana waybalangu bu:di / nana balgangu banamay / The white man took me back to the house.
- 15. A: yalanga nali burbabay / The two of us had a fight there.
- 16. A: nada danbay / dagal / nuna dagigi I hit (him) in the jaw; and he fell down.
- 17. A: yungurangu waybalangu yagangu nana ma:ni / rubungu nana ni:ray / yalanga nana wagunda ni:ray / Two other white men grabbed me, and tied me up with rope, tied me to a tree there.
- 18. A: nayba yalanga nulmurugu di:gi / I stopped there until the night (and all through the night).
- 19. A: bilidinga / buliman du:ndigi / In the morning the policeman arrived.
- 20. A: bulimandu ŋaṇa bu:di / burgumangu / yalaŋga ŋaṇa wanay /
  The policeman took me to Palm Island, and left me there.

# **VOCABULARY**

## ALPHABETICAL VOCABULARY

The vocabulary by semantic fields gives the fullest available information on meanings (with example sentences and cross-references to grammar and texts), dialect distribution, etc. This alphabetical listing is intended for cross-reference purposes; many glosses are given only in abbreviated form. The alphabetical order followed is:

a, a:, b, d, g, g, i, i:, l, m, n, n, n, r, r, u, u:, w, y Word class membership is indicated by:

N - noun

Adj - adjective

Loc - locational qualifier

Time - time qualifier

Part - particle
Int - interjection

Proper - proper name, of person or place

Vint - intransitive verb (occurs only in intransitive constructions)

Vtri - transitive verb (attested in both transitive and intransitive constructions)

As discussed in 3.5.2 and 4.2 it appears likely that all or very nearly all transitive verbs can also occur in intransitive constructions, with the appropriate inflectional allomorphs and case marking on noun phrases. Almost all the more frequently occurring verbs were encountered in both construction types, but some of those for which only two or three instances were recorded were only in transitive constructions – shown by Vtr. No systematic effort was made to obtain all transitive verbs in intransitive constructions; it is likely that most or all Vtr could be extended to Vtri.

it is likely that most or all Vtr could be extended to Vtri.

The few proper names recorded are included in the alphabetical list, but not in the vocabulary by semantic fields.

Grammatical words such as pronouns and demonstratives are in neither list - they are fully discussed in the grammar, section 3.4.

baba, Vtri: pierce, spear babi(lan), N: father's mother bada, N: dog badi, Vtri: hook fish baga, Adj: shut, blocked badala, N: flat rock badigal, N: saltwater turtle badindila, N: spangled drongo baduru, N: money bagidi, N: box, trunk (Loan) bagir, N: basket (Loan) Bagir, Proper: Ingham baguru, N: sword balan ~ balanu, N: moon balangal, N: dugong balbala, N; Adj: fat balban, N: lumps

balbay, N: bottle balbi, N: sloping bank balbirigan, N: large shark baldin, N: male cross-cousin balgan, N: house, hut balgubalgu, N: hat balgun, Adj: clear, open balmbi, Vtr: smell balmbura, N: drum, its noise balggira, N: throwing implement bama, N; Adj: male bamba, Loc: long way bambara, Adj: white bambu, N: egg bana, Vint: return, go/come home bana, Vtri: bend, choke banba, N: red fig tree

bima, N: death adder bandadala, Adj: full bimbiri, Vint: run, run away bandali, Vint: burst, smash, break bandara, N: bottle bimu, N: father's elder brother bimulan, N: father's sister banica, N; Adj: sweat, heat from bina, N: ear sun, summertime; hot from sun binbigal, N: king parrot banma, Vint: talk binda, N: shoulder bandin, N: sea, saltwater binda, Vtri: put standing up, build; baŋal, N: water goanna defecate, urinate, spit banga, Vtri: paint, write bangal, N: upper arm, shoulder bindi, N: female genitalia binda, Vtr: make fire blaze up bangara, N: blue-tongue lizard bingan, N: foot bangay, N: spear (generic) bangila, N: woomera bingira, Adj:(do) quickly, hurry up bini, N: black beetle bangipu, N: a tree fern bira, Vint: descend banguru, N: freshwater turtle bardi, Vtr: (rain) falls on, wets biranbiran, N: bee bird bargil, N: brown rat birbubirbu, N: throwing implement bari, N: stone of crossed sticks birgibara, N: wintertime barul, N: vine-like plant biridi, Adj: nuisance barba, Vtri: ask bargu, N: English axe birnga ~ birnganbirngan, N: grey barnan, N: kangaroo rat hair, grey-haired person birugay, N: umbilical cord bawuru, N: rock wallaby birba, Vint: jump baya, Vtri: sing bayal, N: yellow native bee biya, N: beer (Loan) biyay, Int: no baybu, N: pipe (Loan) Biyay, Proper: name of dialect baygari, N: river fig biyu, N: small creek, gully baygi, N: bag (Loan) bi:bal, N: small budgerigar bayguri, Vtr: shake, wave, bash bayi, Vint: go around, get bi: |bi: |, N: pee-wee bi:[a, Adj; N: frightened; fear tangled up bayil, N: file (Loan) bubun ~ bubunba, N: pheasant bayima, Vtr: buy (Loan) budam, N: matter inside a blister budi, Vint: fall down bayngara, Adj: tired bayngira, Adj: hot budi, N: fart bayuda, N: a coastal ginger budu, N: paperbark tea-tree bayumbi, Vtri: shake, wave, bugul, Adj: vanished, disappeared swing, turn buga, Adj: rotten, stinking, dead ba:di, Vint: cry, sob, weep bugan, N: forest, grasslands ba: Iba, Vtr: roll bugan, N: big bush or grass fire bugawu, N: long-neck turtle ba: |ba|i, Vint: roll bugulbay, N: scrub wallaby bidaman, N: conjiboy plant bidi, Vint: shake with cold bula, 3 du pronoun bulal, N: firefly bidal, N: bark of tree bulbu, N: old person bigilbara, N: whistling duck bigin, N: shield bulburu, N: spotted gum bulgan, N: shrimp, prawn, lobster bilga, N: pitch/gum from grass bulgu, N: wife bili, Vint: run buli, N: flea bilidi, Time: daybreak, early bulibuli, N: nightowl in morning buliman, N: policeman (Loan) bilil, N: rough-necked turtle bulici, N: staghorn fern bilmba, Vtr: push bulngari, N: tree-climbing kangaroo bilmbu, N: hip, side, flank bumaga, N: wasp bumba, N: dust bilngiri, Adj: wide bilu, N: hip(bone) bunabuna, N: weeds, rubbish, couch

grass

bilun, N: hook spear

Dumban, Proper: Ripple Creek

dumbil, N: flange of tree bundin, N: grasshopper dumbul, N: bump on shield opposite bundu, N: edible root bundurup, N: English-style bag handle dumbulan, N: ant species bunga, Vtri: shoot du:ra, Vtri: pull bungi, Vint: lie down bunu, N: smoke dabali, N: whip-tail kangaroo bunul, N: march fly dabini, Adj: sharp(ened) (Loan) bunan, Adj: stinking dada, N: baby bunga, Vint: swell up dagabaja, N: grass tree bungal, Adj: glad, proud, happy bungil, N: rock wallaby dagal, N: jaw dagan, N: sand goanna bungu, N: knee dagardagar, Adj: rough, prickly bungul, Adj: full with food dagari, N: fat bugun, N: drum and its noise dagin, Adj: a lot, much Burayndubaru, Proper: Lambert dagul, Adj: worried, sorry, pitiful Cocky dalaba, N: a long yam burganu, N: snake species Burguman, Proper: Palm Island dalan, N: tongue galbaça, N: beard burubay, N: boil, pus dalgawuru, N: big parasitic fig buran, N: song style dalgi, Vtri: cook burba, Vtri: hit with stick, etc dalguru, N: meat burmbi, Vtri: throw dalmbu, N: younger brother burngan, N: white ant and nest dalmbuyan, N: younger sister burnul, Adj: rotten (e.g. wood) dalpdina, N: moaning funeral chant burugu, N: possum species dalngan, N: froth burun, N: fighting ground dalngulan, N: tongue buya, N: shooting star dalnuy, N: avoidance speech style buya, Vtri: blow, smoke dalun, N: short spear with hook buyana, N: white cockatoo feather dambal, N: snake (generic) decoration dambara, N: large nulla nulla buyburi, Vtr: make a raspberry at buyin, N: eyebrow gambi, N: old woman buymaran, N: sand dambun, N: grub buyngul, N: small tree lizard damiya, N: stone tomahawk buyngari, Vtr: hang up damu, Part: only, just damugan, N: daughter buyu, N: head dana, 3 pl pronoun bu:di, Vtri: take/bring, carry danba, Vtri: hit with rounded bu:giya, N: mullet implement bu:nguray, N: snore dandi, N: older sister dandu, N: small grass dilly-bag; dabugay, N: a wild cherry kangaroo pouch dagi, Vint: fall down dangura, N: turpentine tree dagu, N: carpenter bird, ganna, Vtri: drink hammer bird ganu, Adj: broken Dali, Proper: Tully (Loan) dana, N: father; father's younger dalna, Adj: hard brother dalngal, N: spider and web danal, N: honey dalu, N: palm tree danala, N: obscene song style daman, N: new-born baby danali, N: stinging tree daga, N: wing of bird dangumbi, Vtr: fan Dawunbil, Proper: Townsville dara, N: thigh (Loan) darin, N: woomera da: Ibi, Vtri: scoop up water daruda, N: trousers (Loan) di:, N: tea (Loan) dargala, N: mangrove tree drayga, N: tracker (Loan) gawup, Adj: hot from fire dubi, N: worm dayga, Vtr: hunt away

gabin, N: belly ache, diarrhoea

```
daymba, Vtr: find
                                    gi:~ gi:gi, Vint: sit down, live
dayngiri, N: scrub carpet snake
                                    gi:gi:, N: birds (generic)
ga:, N: jaw
                                    di:din, N: swamp wallaby
da:bu, N: fish (generic)
                                    gi:1, N: shining starling
ga:gi, N: cousin (Loan?)
                                    gi:n, N: eyebrow
da: la, Adj: empty
                                    Dyubaru, Proper: Peter Wallace
da: Iba, Vint: be stuck
                                      (a Dyirbal man)
da: lungal, Loc: in front
                                    dubi, N: married couple
Dya:ni, Proper: Johnny (Tooth)
                                    gubula, N: black pine
  (Loan)
                                    dubun, Adj: slow, slowly
ga:ngi, Vint: sleep
                                    dudu ~ dudulu, Adj: short
ga:yari, N: horse
                                    dula, N: striped ringtail possum
didalgu, Time: tomorrow
                                    dulbamba, Vtr: bury (deeply)
didu, N: chider hardwood tree
                                    dulbun, Adj: married
didari, Vtri: put down
                                    dulbungin, N: woman who claims her
diduluruy, N: forest kingfisher
                                      promised husband
                                    dulgaγa, N: log
diga, N: cigarette (Loan)
gigubina, N: falling star
                                    dulgil, N: bone
dilba, Vtr: dig
                                    dulgin, N: scrub
dilbay, Adj: know how to do
                                    gulngu, N: throat
                                    dulu, N: buttocks
  something
dilgan, N: hole
                                    dulumbara, Adj: straight
dilin, N: hot coals, charcoal
                                    gumba, Vtri, go in, enter, put in
giliwuru, N: lungs
                                    dumuburu, N: bullock
dilnga, Vtr: pour water on
                                    dungiri, N: tail
dilwa, Vtr: kick, shove with knee
                                    dunguru, Adj: (do) hard
                                    gunguy, N: tendon, sinew, gristle
diman, N: firestick; species of
                                    dunma, Vtr: squeeze, knead
  tree from which it is obtained
gimbara, N: small throwing stick
                                    dungara, N: erection of penis
ginaman, N: boots, shoes
                                    dunu, N: odour
ginambajan, N: cramp
                                    dura, N: cloud, sky
                                    gurala, N: flood
dinaca, N: root
ginba, Vtri: spear in water
                                    durda, Vtr: tie up, join on
Dyimbilgay, Proper:
                                    Dyuragay, Proper: Niagara Vale
  Alf Palmer
                                    Dyugaminbal, Proper: John Tooth
ginda, N: waterfall
                                    durbay, N: fishing rod and line
ginda, Vtr: blaze tree
                                    guru, N: shoulder, upper arm, ridge
gindarigan, N: grass tree
                                    duwara, Vint: stand
gindi, N: chest
                                    du:birin, N: small bark lizard
gingibiri, Adj: big (of fish
                                    gu:gara, N: urine
                                    du:duru, N: navel
gingila, N: moreton bay ash/
                                    du:ga, Vtri: swive, copulate with
                                    du:1, N: salt
  messmate tree
gingara, Adj: shallow
                                    du: Indurup, N: navel
dingu, Loc: down (hill??)
                                    du: lu, Adj: black
gingara, Vint: dream
                                    Dyu:n, Proper: Herbert River at the
dingili, N: singlet (Loan)
                                      Herbert Gorge
                                    du:nda, Adj: black
dingin, N: female genitalia
gingiridingiri, N: willy
                                    gu:ngi, Vint: come out, arrive
                                    gu:ra, Vtr: rub, wipe
  wagtail
                                    du:yi, Vint: feel around
Dyirbal, Proper: name of
  language
girbinga, Adj: very good-look-
                                    gabadala, N: small bream
                                    gaban, N: acacia tree; grub in it
  ing (woman, girl)
diribi, N: quail
                                    gabangira, N: dollar bird
giwural, N: pubic hair
                                    gabay, N: walking stick
```

giya, N: chair (Loan)

gabugala, N: plains turkey gabul, N: forest carpet snake gadala, Adj: dry, shallow gadan, N: blady grass gadara, N: grey possum gadaru, N: small striped fish gadin, N; Adj: female; yamstick gadira, N: zamia fern gadiya, N: young girl gadu, N: white tree ant and nest gaga, Vint: go/come gagal, Adj: hard gagara, N: cane dilly-bag gagul, N: white-breasted heron gala, Int: try it!, try again! galaga, Loc: up hill, up in sky galambu, N: grub in gum tree galbay, N: wattle galgabara, N: she oak galgay, N: spear (generic) galmaça, Time: long time ago galmbula, N: ironbark tree galmuru, N: yellow clay galudu, N: scrub mouse galun, N: testicles gama, N: song-style gamanday, N: spear (generic) gambara, N: cyclone gambara, N: body gambay, N: big lawyer vine gambi, N: clothes gambila, N: bark blanket gambunu, N: black duck gamin, N: a lawyer vine gamu, N: water ganal, N: frog (generic) ganbaymu, Adj: very old ganda, Vtri: burn, make fire gandil, N: jabiru, stork gandu, N: dog gani, Loc: up river ganibara, N: dingo ganda, Adj; Vtr: stealing; steal gandaba, Vtri: spear gapu, Time: later on today gapumbul, Time: earlier on today ganaligan, N: mythical devil woman garay, Time: for a long time garba, Adj: stupid gardagarda, N: prickle gargal, N: arm, limb of tree gargay, N: little chicken hawk gargiri, Adj: finished garnda, N: spittle garamgaram, N: seagull garamu, Adj: huge garangala, Adj: strong (man)

garbu, Adj: three garingi, Adj: cranky (Loan) Garul, Proper: Cardwell (Loan) garwun, N: green ant gawal, N: a call gawamba, Vint: vomit gawan, N; Adj: anger; angry, savage gawanan, N: mother's younger brother gawangawan, N: rice gawar, N: large intestine gawarala, N: crane, ibis gawu, Int: come on! gawulgawul, N: wind gawuy, Adj: quickly gayambula, N: white cockatoo gayba, Time: now gayga, N: eye gaygamali, N: (non-flesh) food gayi, N: ground gaymbiri, Adj: (do) everywhere ga:guru ~ ga:gurud, N: cockroach (Loan) ga:ma, Vtr: do (say) like this ga:nda, Vint: crawl ga:[a, N: centipede giba, N: liver gida, Vtr: poke with stick gidul, Adj: cold gida, Adj: small gidawulu, N: freshwater jewfish Gigubal, Proper: Rosevale gilan, N: old man gilangan, N: old woman gilnan, N: a bad cold gilngira, N: cassowary gimbi, Vtr: (wind) blow ginba, N: bark water container gindu, N: offspring, chick Giramay, Proper: language name girawan, N: scrub-hen Girdul, Proper: Nora Boyd (name given at birth) girgingan, N: lady finger tree girugiru, N: small intestine giyabay, N: brown rock lizard giyal, Adj: sweet, savage, poisonous gi:ba, Vtri: scratch, scrape, shave gi:bara, N: large fig tree; mark on message stick 'one hundred' gi:ga, Vtr: tell to do, let do Gi:rigin, Proper: Romulus (an oldendays Wargamay man) gubana(n), N: father's father gubara, N: tree with red bark gubi, gubimbulu, N: wise man gubil, N: whistle gubu, N: small leaf

Gububadi, Proper: Arthur Wild gubur, N: sticky black native bee gubura, N: magpie guda, Vtri: block, shut, close gudi, N: water rat gudagay, N: alligator gudila, N: short-nose bandicoot gudiyan, N: boil, pus gudulbara, N: whirlwind gugi, N: black flying fox gugigugi, N: butterfly, moth gugu, Time: meanwhile gugulu, N: stick for accompanying danala-style songs gugun, N: older brother gugungal, Loc: behind guguwup, N: blue pigeon gulalbi, N: black cockatoo gularu, N: blue gum tree gulawun, N: Leichardt tree gulbila, Loc: south gulbica, N: spear grass gulbu, Adj: foreign, strange gulgal, N: black pigeon gulgiri, Adj: prettily painted gulguma, Vtr: bring in, muster guli, Int: excalamation when startled gulin, N: land of spirits in east gulmbal, N: good friend gulmbura, N: woomera gulngu, N: nulla nulla gulubu, N: wind gumarbari, Adj: a lot, many gumbay, N: mother gumbi, N: forest carpet snake gumbi, N: thumb gumbiyan, N: echidna, porcupine gumbuna(n), N: mother's mother gumbur, N: dew gumburu, N: fog, mist gumu, N: mosquito gumul, N: bark blanket guna, N: faeces, shit gunayngil, N: white cockatoo gunba, Vtri: cut into, cut open, cut a piece out qunbin, N: two trees rubbing together; noise they make gundabara, N: fine weather gundambula, N: very dark (night) qundamu, N: freshwater garfish gundanga, Time: last night gundil, Adj: heavy gundulu, N: emu gunga, Adj: unripe, green (vegetables), raw (meat), alive (person)

gungari, Vtri: cut down, cut through gungul, N: non-flesh food gunugunu, N: sandfly gunda, Vtri: bite gundi, N: top grinding stone gundunu, N: thunderstorm gunin, Loc: people, goods and places from south; 'coast' gungaga, N: grey kookaburra gungari, Loc: north guran, Adj: long gurga, N: back of neck gurgida, N: ring-tail rat gurgila/gurgilayngan, N: section guridala, N: eaglehawk gurmal, N: blood, vein gurugan, N: bloodwood gurugu, N: grog (Loan) gu[alal, N: grey kookaburra gurambal, N: blue mountain parrot gurbal, N: half-caste gurbala, N: wild banana tree gurdal, N: bee, sugarbag (generic) gurgara, N: billy-can gurgay, N: big grey kangaroo gurguru/gurgurayngan, N: section guri, N: blood, vein guril, N: storm bird gurna, N: mud gurugu, N: dove gurur, N: native companion, brolga guwa, Loc: west guyabay, Loc: other side of river guyan, N: quartz, sharp quartz knife guydari, N: scrub turkey guygal, N: long-nose bandicoot guyguy, N: mosquito guyi, Vint: cry, sob, weep guyibara, N: curlew guyila, N: charcoal, flame guyma, Vtri: give birth to guymbi, N: eel (generic) guymbira, N: cicatrices (tribal marks) and men who bear them guyngan, N: spirit of a dead woman; white woman guynin, N: honey guyumulu, N: quandong gu:ba, Vtr: cover with water gu:da, Vtr: (water) washes away gu:gal, N: mud cod gu:gara, N: black goanna gu:p, N: spirit of a dead man; white man; 'devil'; 'ghost' gu:ŋara, N: rubbish (e.g. in river) gu:ŋara, Time: very long time ago gu: [duru, N: beetle (generic)

midi, N: leech

layn, N: fishing line (Loan) midin, N: grey possum mida, N: camp, house mada, Adj: salty midiri, Vint: wait mada, Vtri: paint midu, N: brain madal, N: cocky apple tree migulu, N: white man (Loan) madila, N: white clay milara, N: ribs maduwargi, N: mate milba, Vtr: show magira, N: red clay milbir, N: slippery blue fig magu, N: arm, wing of bird milburu, Adj: straight magul, N: work mildun, N: type of cousin mala, N: hand milga, N: painted bark rainmaker milgal, Adj: greedy malan, N: creek malanbaça, N: right hand milmuru, Adj: spinning, fast minba, V: hit with thrown stick etc mali, Adj: good malugan, N: chicken snake mindi, N: grass dilly-bag mindi, N: corroboree ground mamu, Time: by-and-by mudan, N: lump on body manda, N: penis mandi, N: hand mudiqa, N: motor car (Loan) mangi, N: a lawyer vine muda, Vtri: eat mani, N: money (Loan) mudi, N: semen manabagay, Adj: ugly mudugaça, N: mud crab mapalmapal, Adj: stinking, muduru, N: big locust bitter, dirty mugal, N: head mangay, Adj: full up with food mugaru, N: fish net manara, N: big kangaroo mugay, N: elbow manga, N: flower mugul, N: knee mugulan, N: mother's elder brother mangu, N: mango (Loan) manguru, N: big flying squirrel mugunduru, N: hailstone manguru, N: mother's elder sister muguru, Adj: hard, strong mara, N: leaf mulga, Adj: half-blind margara, N: youth ready for mulgalgay, N: green ginger initiation mulgara, Adj: game, brave mulgun, N: backbone margin, N: gun (Loan, from musket) mari, Part: might be mulin, N: lip, mouth, bird's beak marna, Adj: wet mulmbin, Adj: blunt marnda, Adj: sore; bitter, salty mulu, Loc: near, close up munma, N: paperbark hornet magada, N: cherry tree marbal, N: fly Munungul, Proper: Younger Creek marbu, N: louse (place in Giramay territory) marqun, Adj: grey munara, Adj: by oneself, alone mawa, N: shrimp, prawn, lobster mundal, Adj: soft, weak mundu, Adj: naked maya, Int: no mayay, N: (everyday style) mupi, Vint: blink language mupinip, N: small black ant mununmunun, N: chocolate bats mayba, N: fire maybada, N: alligator munan, N: mountain maydala, N: lightning mungan, N: Herbert River ringtail mayŋga, Vtri: tell possum muray, N: head hair mayngu, N: mango (Loan) ma:da, N: boss, 'God' murgalngan, N: seven sisters ma:gaya, N: bee's wax murgin, N: son ma:1, N: man murmbal, N: quandong ma:ni, Vtri: hold in hand, hold muwari, N: any big shady tree onto, catch hold of, catch, grab muyma, N: boy ma:pda, N: fishing line, string muymba, Vtr: extinguish fire/light ma:ngay, Adj: silly muyngul, N: oldest boy

muyngulgan, N: oldest girl

muyu, N: bottom, arse
muyun, N: large blue kingfisher
mu:ba, N: stone fish
mu:duru, N: perch
mu:gil, N: freshwater black bream
mu:ngi, Vtr: make cold, make
 shiver
mu:ra, Adj: hidden, out of sight
mu:ri, N: tree with small blue
fruit

naybu, N: knife (Loan)
nayi (plural: nayili), N: young
girl
nibal, N: coals, opium
nuba, N: bark water container
nugumba, Vint: vomit
nu:ba, Vtr: sharpen, grind

paba, Adj: ripe nagaram, Adj: tiny nagumbi, Vint: come nalamburu, Adj: good nalbay, N(Adj?): totemic identification palmu, N: large nulla nulla nalngirgan, Adj: pretty (woman, girl) namu, Time: for a short while pandu, Int (or Adj?): I don't nandal, Adj: heavy parnga, Vtri: rush in on, raid, arrest pa:pa, N: light (in distance) nibu, N: mythical spider nigin, N: finger-/toe-nail nimbara, N: body hair, fur ninga, Vtr: stop, block pirwaga, Time: tomorrow nirinara, N: maggot nubi, N: (classifactory) father-in-law nugi, Vint: dance purbira, Vint: be ill, sick, feverish nurnu, N: hitting/bumping noise nu:nda, Vtri: kiss

ŋaba, Vtr: soak
Ngabila, Proper: a mountain
 near Sheahan's farm (which is
 where the Abergowrie road
 crosses the Herbert River)
Ngabi[bil, Proper: Herbert Vale
 (Loan)
ŋadaymbi, Vint: come

naguba, N: Burdekin plum tree nagul, Adj: N: deep; deep waterhole ŋalma, Adj: one's own nalmandara, N: light ŋalu, N: fresh water naluwa, N: black and white flying squirrel Ngalwagiri, Proper: Abergowrie nama, N: shield handle ŋamiri, Adj: hungry namugay, N: toothache namun, N: (female) breast namuru, N: armpit ŋanba, Vtri: follow nangul, N: chin nani, N: face ŋarala, Adj: dry, shallow naringi, N: orange (Loan) naru, Part: don't nardi, N: country (generic) ŋaṛgup, N: chin ŋari, Vtr: answer nayaba, N: vine used as fish poison naygina(n), N: mother's father ŋayi, Int: yes nayi, N; Adj: voice; thirsty ŋayilŋgara, N: neck ŋa:, Part: not ŋa:ba, N: bottom of ribs na:ra, Vtri: hear, listen ηa:[a, Part: can't do (despite trying) na: camba, Vtri: try to do (but fail) nirdima, Vtri: tickle (in sex play) ninginingi, N: 'nymphomaniac' niyanma, Vtr: ask niyara, N: ribs niyawuda, Vtr: grab with hand ŋi:ra, Vtri: tie up nudan, N: large black snake nugu, Adj: pretending, lying, malingering nugi, Adj: stinking, bad smell nugu, N: mopoke owl nulan, N: stone tomahawk nulganga, Time: yesterday ŋulmburu, N: woman nulmuru, N/Time: darkness, night nulndirin, Adi: wet nulniri, N: lots of noise ղսlubuլս, N: stump numbulu, N: black snake with red tail nunda, Vtri: see, look nuni, Vint: search for, hunt for nunin, N: reflection, shadow, spirit

wanal, N: boomerang

wangu, N: small goanna

Ngunuru, Proper: Nora Boyd (name wanguri, Vint: kneel down, squat given later in life) wara, Part: inappropriate S or O NP nuri, Part: in turn/retribution wardal, Adj: sharp nurgi, N: a ginger species wardan, N: raft nurmbun, N: tapping noise Wargamay, Proper: language name wargayda, N: spear with stingaree nuru, N: nose ηu:da, Vtri: test, taste, try out sting nu:ma, Vtri: feel wargin, N: boomerang յս։ըս, N: heel wargubala, N: left hand warguy, N: left hand warŋay, N: fish spear raba, N: forked stick, fork of warumbil, N: whistle rabi, Adj: (do) quickly warup, N: sand waçabi, N: dog raybul, N: rifle (Loan) raygi, N: old clothes (Loan, wardumba, Vtr: wash prob. from rag) warudala, N: black wallaby rimbi, N: forehead warugay, N: short fishing rod and Tubu, N: rope (Loan) line rugulu, Time: the other day OR waruwaru, Adj: crooked yesterday waybala, N: white man (Loan) wayili, N: red bream rulgu, N: heart rulmbura, N: ashes waymin, N: (classificatory) լսլրվa, Vtr: suck mother-in-law ruyu, Adj: playing around wayu, Adj: turning into wa:ba, Vint: look up (for sugarbag wada, N: crow only) wada, N: mud wa:di, Vint: laugh wadan, N: small native bee wa:gap, N: crow wa:nda, Vtr: rouse on, tell on wadangara, N: crow wadiri, Vtr: overturn, spill, widiyan, N: white woman windi, N: snake (generic) winin, Adj: sore waga, N: shin(bone) W, thigh B wira, N: black fig wagadala, N: yellow flying fox Wagaraba, Proper: Long Pocket wiran, N: blood wirga, N: small nulla nulla wagun, N: fire, wood, tree wagun, N: sea, saltwater wiri, N: bird's nest wala, Vint: arise, go up wiru, N: husband wirba, N: little stick walam, N: tick walguwuru, N: poisonous brown wildu, N: frilly lizard wirga, Vint: bathe, bogey walmbari, Vint: (dog) barks wi:, N: sun wi:gi, wi:gina, Adj: no good walmbi, Vtri: lift up, pick up, waken wubiri, N: English bee walndan, N: a river tea-tree wuda, Vtr: take off Walndanbara, Proper: Peacock wudil, Adj: asleep Siding (up Stone River) wudu, N: nose walnga, N: air in lungs wududalguru, N: bird like ibis walnga, Vint: float on water wuduru/wudurayngan: section wugar, Adj; N: sleepy; sleepiness walngarnin, N: eldest child in wugi, Vtr: give family wambuy, N: fire, wood, tree wugu, N: breastbone wana, Vtr: leave (it) be wula, Vint: die wangawa, N: bird like pigeon wulbu, N: pheasant wanuy, N: round yam wulgamu, N: green scrub pigeon waŋa, N: black bean wulgu, N: bark canoe

wulgudu, N: Torres Strait pigeon

wulman, N: old man (Loan)

wuma. N: shade yayimbali, Vint: play about wumba, N: belly, stomach, bowels, ya:, N: top of tree yibi, N: child wumbugiri, N: star yigara, N: crayfish wunduy, N: freshwater shark yigir, N: disease like smallpox wungu/wungurayngan, N: section yilgan, N: moon wunan, Adj: lustful, larrikin yimba, Vtr: put on (clothes) wuŋa, Vint: go walkabout yimbur, N: pelican wuŋa, Vtr: chase yimiri, Vint: feel glad, be glad wurbi, Adj: big yinbi, Vint: fly wuramba, N: scrub turkey yindin, N: (cane train) engine wurigala, N: barramundi (Loan) wuyga, N: snake skin (after Yinam, Proper: Ingham (Loan) having been shed) yinari, N; Adj: cave; hollow wuygul, N: whip snake yira, N: tooth wuymbi, Vtr: lick yirawuru, N: forest carpet snake wu:, N: war (Loan) yirgal, Adj: itchy wu:, N: hoe (Loan) yirgandi, Loc: people, goods and places from north yabu, N: mother and mother's yirgindara, N: star (generic) younger sister yiribara, N: blue gum tree yabudu, N: son yirindila, N: horse fly yabulga, N: morning star yi:1, N: name yabun, N: big camp yubay, Adj: be away yaga, N: two yubaybi, Vint: run away yubayma, Vtr: steal, take yagabayan, N: large gum tree yagal, N: pandanus yudi, N: long-nosed frog yalbar, N: flat ground yugan, N: rain yalgay, N: road yugara, Vint: swim (from A to B) yulba, N: end of branch yalndabara, Adj: a very large number yulgu, N: belly, stomach, bowels, yalngay, N: a single person yulguruy, Loc: inside yaluga - although included in yumbuçu, N: late stage of tadpole text 6.13 this is a Giramay yumuru, N: son (said by mother) form (Dixon 1972:259) yungun, N: swamp yamani, N: rainbow yunga, N: skin Yamani, Proper: Yamanie Creek yungubala, N: copper-headed python yamara, N: man yungul, Adj: one yanbara, N: kangaroo spear yungura, Adj: another one yanal, yanabara, yanandari, yurmay, Time: do all the time N: long, tall yuralbara, N: big river yaŋabula, N: long eel species yuruynbi, N: river-bank (in song) yangal, N: freshwater black yu:mba, Vtri: bury (to shallow bream depth) yaraman, N: horse (Loan) yu:nu, Loc: down (river?) yawuymbari ~ yawuymbari, N: yu:ra, Vtr: swallow big grey kangaroo yu:[i, Vint: grow, sprout

# VOCABULARY BY SEMANTIC FIELDS

Dialect attestation of lexemes is shown to the left of each entry. There are three columns (see 1.2 above):

```
column 1 W - occurs in Wargamay proper
column 2 B - occurs in Halifax Biyay
column 3 H - occurs in Hinchinbrook Biyay
```

A dash, -, in a column indicates that informants stated this item did not occur in that dialect.

All lexemes included here (for the W column) have been fully checked out with at least two speakers; this has always included at least one, and usually both, of John Tooth and Lambert Cocky. Words in B which differ from those in W were generally checked on two occasions with Nora Boyd. Information on H comes only from old sources - see 1.6.

In a small number of cases different informants gave rather different meanings for a form. These are noted below, using abbreviations.

JT - John Tooth

AP - Alf Palmer

LC - Lambert Cocky

JJ - Jimmy Johnson

NB - Nora Boyd

Several hundred words that were at one time suggested as Wargamay were eliminated from the final vocabulary since corroboration could not be obtained of this. Most of them are in fact from Giramay, Warunu or Nyawaygi although a number are not attested for any surrounding language (some of these are probably from the H dialect, for which no speakers remain).

A few words for which full corroboration could not be obtained are included here, preceded by a star to indicate that they could not be checked as fully as the remainder of the vocabulary. These are:

(i) Obtained from LC, and checked with him, but not checked with any other speaker (some were given by LC in 1980 and I did not have the opportunity to revisit JT after that, to obtain his corroboration): bayngara, bumba, galngulan, ga:ngi, ginambaran, gingili, gardagarda, guli, muwari, niyanma, nulniri, wa:nda, wargumba, wiran, yayimbali.

wardumba, wiran, yayimbali.
(ii) Given by JT and checked with him as definitely W items, but could not be obtained from LC: dagabara, galmbula, madal, yabun, yimba.

(iii) Given by NB but could not be checked with her before her death (the identification of the rhotic is uncertain in each case, at the least): bingira, daça, nulndirin (NB alternated between this form and gulndirin), warumbil.

(iv) gulmbuga 'woomera' was given by Arthur Wild and recognized by LC but not JT; but when asked on a later occasion LC did not acknowledge this item. yalbag was in the material recorded by La Mont West Jr from Jimmy Johnson. LC recognised it but JT did not. However, on a later date LC would not admit it as a W form.

There must without doubt be further mistakes, of transcription and glossing, in a project of this nature, despite the care that has been taken in checking.

Abbreviations int, tri and tr for verbs correspond to Vint, Vtri and Vtr above; they are explained in the introductory note to the alphabetical vocabulary.

## NOUNS

A - Body parts
W- mugal, head
-BH buyu, head
W migu, brain

WB muray, head hair

W birnga ~ birnganbirngan, grey hair, grey-haired person

W pimbi, forehead

W H nani, face

```
-BH wumba, belly, etc (as yulgu)
WBH gayga, eye
WB -gaygabada, blind
                                    W- gu: Indurup, navel
    -gaygabala, blind
                                     -B
                                        du:duru, navel
W- buyin, eyebrow
                                    WB birugay, umbilical cord
                                         gawar, large intestine, 'tripe'
-B di:n, eyebrow
                                           (and 'big paunch')
   wudu, nose, point, headland,
W-
      end of penis, pencil
                                         girugiru, small intestine
                                     W
                                         Culgu, heart
-BH guru, nose, etc.
                                     W
WBH bina, ear
                                     W
                                         giba, liver
WB -binabada, deaf
                                     В
                                        diliwuru, lungs
W-H dagal, jaw
                                         walnga, air in lungs
                                    W
                                         mulgun, backbone (and back of
-B da:, jaw
                                     W
                                           boomerang, woomera)
W- nangul, chin
-B nargun, chin
                                     WB
                                         dulu, buttocks
WBH mulin, lip, mouth, bird's
                                        muyu, bottom, arse
                                     WB
      beak
                                    W H dara, thigh
WB dalbara, beard
                                     W- bungu, knee
WBH yira, teeth, seed, point
                                     -BH mugul, knee
      of spear
                                        waga, shin(bone) W; thigh B
                                     WB
    namugay, toothache
                                     WBH bingan, foot
WBH dalan, tongue
                                    WB nu:ru, heel
    *dalngulan, tongue
                                     W
                                         manda, penis
WBH garnda, spittle
                                         dungara, erection of penis
                                     W
    nayilngara, neck
                                           e.g. manda dungarambigi
                                     W H galun, testicles
WBH dulngu, throat
    gurga, back of neck
                                         mudi, semen
                                     W
    nayi, voice (also Adj,
                                     W
                                         giwural, pubic hair
                                         bindi, female genitalia (pre-
      thirsty)
                                     W
    binda, shoulder
                                           ferred term in W)
    duru, shoulder, upper arm,
                                         dingin, female genitalia
W
                                           (Giramay term, also used in W)
      ridge
   ŋamuʈu, armpit
                                     WBH guna, faeces, shit
WB
WB
    mugay, elbow
                                         budi, fart, e.g. nayba
                                           budimbigi 'I farted'
    bangal, upper arm (JT, JJ);
      shoulder along to neck (LC)
                                         gabin, belly-ache, diarrhoea
                                     W
W H magu, arm, wing of bird
                                     W
                                         du:dara, urine
    gargal, arm, limb of tree
                                     W
                                         gambara, body
W
                                         pimbaga, body-hair, fur
WB mala, hand
                                     W
--H mandi, hand
                                     WBH yunga, skin
    malanbara, right hand
                                     WBH dulgil, bone
    wargubala, left hand
W-
                                     W- gurmal, blood, vein
-B warguy, left hand
                                     -BH guri, blood, vein
WB gumbi, thumb
                                         *wirap, blood
                                         dunguy, tendon, sinew, gristle
W H pigip, fingernail, toenail,
                                     WB
      claw of bird - see (21)
                                         balbala, fat (also used to
                                     W
WBH namun, breast
                                           describe fat person)
                                         dagari, fat (e.g. kidney fat)
    dindi, chest
                                     W
                                         banina, sweat, hot sun (making
    guymbica, cicatrices
                                     WB
                                           one sweat), summertime
WBH wugu, breastbone
W- niyara, ribs
                                     W
                                         gilnan, a bad cold
-B milara, ribs
                                     W--
                                         burubay, boil, pus
    ŋa:ba, bottom of ribs
                                         gudiyan, boil, pus
                                     −B
                                         budam, matter inside a blister
W H bilu, hip(bone)
                                     −B
-B bilmbu, hip, side, flank
                                         yigir, a disease like smallpox
    yulgu, belly, stomach, bowels
                                           that makes one scratch (per-
      guts (and front of boomerang,
                                           haps Jiggers)
                                         balban, a lump on body (and
      woomera)
    -yulgugiri, full of food
                                           warts on bark of tree)
```

-balbanbalban, lumpy all over migulu, white man (Loan) W body guyngan, spirit of a dead womudan, lumps on body man (these are believed to **-**B \*dinambaran, cramp (+ body exist as birds); white W WB dungiri, tail (on animal or WBH widiyan, white woman gurbal(gurbal), half-caste \*gardagarda, any prickle (e.g. ganaligan, mythical 'devil W W echidna spike, or lawyer woman', invoked to frighten cane prickle) people not to stray too far W nibu, mythical spider e.g. B - Human classification nibungu nina mani: Ima bama, male (human or animal) 'Nyibu might catch you (and gagin, female (human or animal) make you sick)', and (84) W buliman, policeman (Loan) WBH ma: 1, (Aboriginal) man ma:da, boss (also used by LC yamara, (Aboriginal) man [may for God, described as 'big be preferred for referring to a group of men] boss in heaven') WBH nulmburu, (Aboriginal) woman drayga, (black) tracker (Loan) W gindu, offspring (human child or animal chick) C - Kinship daman, new-born (human) baby mugulan, mother's elder brother WB W gawanan, mother's younger dada, baby W WBH yibi, child (especially rebrother duplicated, yibiyibi, manguru, mother's elder sister W children) yabu, mother, mother's younger WB walngarpip, eldest child in WB sister family H gumbay (?), mother and younger WB muyma, boy sister margara, teenage boy (of age W bimu, father's elder brother dana, father, father's for initiation but not yet WB initiated) younger brother quymbira, cicatrices (tribal WB bimulan, father's sister (elder or younger) marks) and man with them W-H gilan, old man Wgumbunan, mother's mother gumbuna, mother's mother -gilangan, old woman **−**B nayginan, mother's father -B bulbu, old person Wwulman, old man (Loan) naygina, mother's father **-**В W gadiya, young girl Wbabilan, father's mother -B nayi (pl nayili), young girl babi, father's mother **-**B WBH dambi, old woman (especially Wgubanan, father's father gubana, father's father reduplicated to refer to **-**B group of old women, WBH dandi, elder sister dambidambi) dalmbuyan, younger sister W yalngay, single person (spins-W H gugun, elder brother ter/bachelor, or widow/ WBH dalmbu, younger brother Above four terms also cover widower) gubi, wise man father's brother's and W W gubimbulu, very wise man mother's sister's children maduwargi, mate, friend WB WB damugan, daughter gulmbal, mate, friend WB W murgin, son nunin, reflection, shadow, WB **-**B yabudu, son spirit (semi-corporeal) yumuru, 'son' (said by mother W gu:n, spirit of a dead man W to avoid using his name) (non-corporeal); also W muyngul, eldest boy

W

-muynqulgan, eldest girl

baldin, mother's brother's son;

white man, 'ghost', 'devil'

waybala, white man (Loan)

W

father's sister's son mildun, mother's brother's daughter, etc. da:di, cousin (Loan?) W WBH bulgu, wife wiru, husband dubi, man and wife waymin, (classificatory) W mother-in-law pubi, (classificatory) father-in-law Ca - Sections and Identification W H gurgila/gurgilayngan, wuduru/ wudurayngan, wungu/ wungurayngan/, gurguru/ qurqurayngan, male/female section labels - see 1.4 palbay, identification with totem or country e.g. gundunu nalbay naygu 'the thunderstorm is my totem' D - Mammals gumbiyan, echnidna, WB porcupine gurgida, ring-tail rat bargil, brown rat and/or house mouse qaludu, scrub mouse WB gudi, water rat gudila, short-nose bandicoot guygal, long-nose bandicoot gadara, grey possum -BH midin, grey possum dula, striped ringtail possum (Pseudochirops archeri) W mungan, Herbert River ringtail possum (Pseudocheirus herbertensis) burugu, a possum species WB naluwa, black and white flying squirrel (Dactylopsila trivirgata) manguru, large flying W squirrel W bulngari, tree-climbing kangaroo (Dendrolagus lumholtzi) W manara, large kangaroo yawuynbari ~ yawuymbaçi, big grey kangaroo (male) gurgay, big grey kangaroo W

(female)

dabali, whip-tail kangaroo W W warudala, black wallaby W di:din, swamp wallaby W bulgulbay, scrub wallaby Wbawuru, rock wallaby **-**B bungil, rock wallaby WB barnan, kangaroo rat gugi, black flying fox WB wagadala, yellow flying fox W WB mununmunun, chocolate bat WB bada, dog W warabi, dog W ganibara, dingo H gandu, dog yaraman, horse (Loan) W da:yari, horse W dumuburu, bullock, beef E - Reptiles and Amphibians W H gudagay, alligator ('main Wargamay word') maybada, alligator (alternative term, less preferred) WBH badigal, saltwater turtle banguru, freshwater turtle with round belly bilil, freshwater turtle with flat belly and long rough neck bugawu, long-neck turtle (not good to eat) bangara, blue-tongue lizard WB W giyabay, brown rock lizard WB wirdu, frilled lizard W buyndul, small tree lizard du:birin, small bark lizard WB WB gu:gara, black goanna WB dagan, sand goanna W banal, water goanna wangu, small goanna WBH windi, snake (generic) (preferred Wargamay term) dambal, snake (generic) (said to be a Giramay term, also used in Wargamay) wuyga, snake skin (after being shed) WR gabul, forest carpet snake (female) yirawuru, forest carpet snake W-(male) **-**B gumbi, forest carpet snake (male) dayngiri, large tree-climbing scrub carpet snake (also used as generic term for any carpet snake) malugan, chicken snake (edible) WB

bima, death adder

W

kingfisher

WB nudan, large black snake WB dingiridingiri, willy wagtail numbulu, small poisonous black W-H gayambula, white cockatoo snake with red tail -B gunayngil, white cockatoo W wuygul, whip snake W gulalbi, black cockatoo W W walquwuru, poisonous brown binbiral, king parrot W gurambal, blue mountain parrot snake W burganu, big, lazy brown snake bi:bal, small needle-tail W (also said to be tiger snake; budgerigar, eats bees W biranbiran, a needle-tail bee yungubala, copper-headed python W bird diribi, quail WB ganal, frog (generic) W yudi, long-nosed frog (used W gabangira, dollar bird as bait for barramundi) W badindila, spangled drongo yumburu, late stage of tadpole di: 1, shining starling W W -di: |di: |, flock of these F - Birds W dagu, carpenter bird, hammer di:di:, bird (generic) bird W guril, storm bird WBH bambu, egg wiri, bird's nest WB guridala, eagle hawk \*dara, bird's wing W gargay, small chicken hawk WB gilngira, cassowary W gambunu, black duck W H gundulu, emu W bigilbara, whistling duck gurur, native companion, W- bubunba, pheasant brolga **−**B bubun, pheasant W gawarala, crane, ibis wulbu, pheasant **−**B W wudugalguru, bird like ibis W garamgaram, sea gull W gandil, jabiru, stork gagul, brown heron with white G - Fishes, etc W WBH da:bu, fish (generic) chest -B yimbur, pelican dindibiri, big (used only of W guyibara, curlew W gabugala, plains turkey WB gidawulu, freshwater jewfish Wwuramba, scrub turkey (catfish) WB guydari, scrub turkey WB gu:gal, mud cod WB girawan, scrub hen W bu:giya, freshwater mullet gurugu, dove W gadaru, small white fish with W guguwup, blue pigeon WB black stripes, used as bait W gulgal, black flock pigeon for catching barramundi W wulgamu, green scrub pigeon Wmu:gil, freshwater black bream wulgudu, Torres Strait pigeon yangal, freshwater black bream WB -В wangawa, a bird like a pigeon, W wayili, freshwater red bream W which scratches around on W gabadala, smaller bream the ground W mu:guru, perch WB nugu, mopoke owl W wuridala, barramundi bulibuli, night owl WB mu:ba, stone fish W W bi: |bi: |, pee wee W gundamu, freshwater garfish W gubura, magpie W balbirigan, large saltwater W- wada, crow shark -B- wagangara, crow wunduy, freshwater shark W WB -wadara, big mob of crows W balangal, dugong --H wa:gap, crow WB guymbi, eel (generic) yanabula, a species of long eel W-H gungaga, grey jackass, W kookaburra W mudugara, mud crab guralal, grey jackass, WBH yigara, crayfish, yabby kookaburra bulgan, shrimp, prawn, lobster W W muyun, large blue kingfisher (preferred Wargamay term) W diduluruy, small forest WB mawa, shrimp, prawn, lobster

```
H - Insects, etc
                                      W
    burngan, white ant (and its
WB
    gadu, white ant on tree (and
      antbed)
WB
    dumbulan, sugar ant (JT), big
      red ant (LC), bull ant (AP)
                                      W
    mupinip, little biting black
                                      W
                                      W
W
    garwun, green ant (makes a
                                      W
      nest on a tree like a
                                      W
      hornet)
                                      W
 В
   bumaga, wasp
                                      W
W-
    munma, paperbark hornet
      (makes nest in gum tree)
                                      W
WB
    ga:[a, centipede
    pirinara, maggot
WBH marbal, (common) fly
    bunul, march fly
W
    yirindila, horse-fly
W
    bulal, firefly
W-
    gumu, mosquito
                                      W
-BH guyguy, mosquito .
                                      W
-B gunugunu, sandfly
                                      W
W
    gugigugi, butterfly, moth
                                      W
WB
    dambun, grub
WB
    gaban, grub in acacia tree
                                     W
W
    galambu, grub in gum tree
                                     W
WB
    gu: rduru, beetle (generic),
      including cane beetle
                                     W
   bini, black beetle (as on
-B
      lamp) NOTE that NB gave
      these as two distinct
      designations in B, but
      LC said that gini was the
                                     W
      B equivalent of Wargamay
      gu: rduru
                                     W
    ga:guru(d), cockroach (Loan),
      LC included a final d but
      NB did not
   midi, leech
WB
WB
    dubi, earthworm
    bundin, grasshopper
WB
WB
    muduru, large locust
                                     W
WΒ
    marbu, louse
                                     W
WB
    walam, tick
WB
    buli, flea
                                     W
    gurdal, bee, sugarbag
W
      (generic)
    gubur, large black savage
WB
      sticky native bee
W
    wadan, small yellow native
      bee with white behind
                                     WB
WB
   bayal, a yellow native bee
    wubiri, English bee
WB
    danal, honey
W
                                     W
W
    guynin, honey
```

```
ma:gaya, bee's wax
    dalngal, spider, web
I - Language, ceremony, noise
WB mayay, language (everyday
      style)
    -mayay(m)bi, Vint, talk
    dalnuy, avoidance style
    gawal, a call
    -gawali, Vint, call out
    yi: | name
    gama, song-style
    bunan, song-style borrowed
      by Wargamaygan
    danala, song style
      (predominantly obscene)
W-
    dalpdira, moaning funeral chant
      recounting deeds of dead
      person
WB
    bunun, drum used by women
      (and noise)
    balmbura, as bunun
    wu:, war (Loan)
    bu:nguray, a snore; see (5)
    -bu:nguray(m)bi, Vint, snore;
      see (183)
    gubil, a whistle
    -gubili, Vint, whistle
-B
    *warumbil, whistle
    *nulniri, lots of noise (e.g.
      cattle lowing, or from people)
WB
    nurnu, a noise e.g. hitting a
      drum, breaking a stick,
      bumping into something
    nurmbun, a tapping noise e.g.
      tapping feet
    gunbin, two trees rubbing
      together, and the noise they
      make
J - Artefacts
WBH wargin, boomerang (the 'best'
      Wargamay word)
    wanal, boomerang
    birbubirbu, throwing implement
      made of two crossed sticks
    balngira, as birbubirbu
      [balngira may possibly be an
      adjective 'crossed']
WB
   gimbara, small throwing stick,
      2-3' long, big head and
      tapering body, mostly a toy
```

dambara, larger nulla nulla

wirga, small nulla nulla, a

little bigger than dimbara,

(throwing stick), for

fighting

mostly used to throw up into W ma:gaya, bee's wax, used for tree to knock fruit down sealing nuba/ginba gulngu, a nulla nulla WB W bilga, pitch/gum from grass nalmu, large nulla nulla, 5-6' WB tree, used for sealing in length with big head, W gurgara, billy can used by women in fighting bandara, bottle W gadin, yamstick W balbay, bottle W bundurup, English bag TAT gabay, walking stick gugulu, stick for accompani-W baygi, bag (Loan) ment in danala song-style W bagir, basket (Loan) bangay, spear (generic) W bagidi, box, trunk (Loan, prob. gamanday, spear (generic) from baggage) --H galgay, spear (generic) WB gambi, clothes dalun, short spear with hook, gambila, bark blanket W used for fighting gumul, blanket from stinging yanbaça, long spear, used for tree bark balgubalgu, hat hunting kangaroos raygi, old clothes (Loan, prob. warqayda, prickly spear, with stingaree sting from rag) W bilun, hook spear W dinaman, boot, shoe W warŋay, fish spear W daruda, trousers (Loan) \*dingili, singlet (Loan) W darin, (straight) woomera W bangila, (straight) woomera WB milga, water-maker: piece of -B \*gulmbura, (straight) woomera painted bark (later, iron) baguru, sword placed in the submerged root WB WBH bigin, shield of a tree just below water level. See Lumholtz and nama, shield handle W dumbul, bump at reverse of Banfield references given on handle on shield p.104-5 above. buyana, white feather from WB nulan, stone tomahawk W damiya, stone tomahawk chest of white cockatoo **-**B WB bargu, English axe (corroboree decoration) guyan, quartz, sharp knife W W mani, money (Loan) bari 'stone' also used; and made from quartz biba 'paper' for paper money W naybu, knife (Loan) W bayil, file (Loan) В baduru, money (probably a W wu:, hoe (Loan) yaraman-type loan) W gundi, (top) grinding stone W baybu, pipe (Loan) diman, firestick W W raybul, rifle (Loan) margin, gun (Loan, from musket) W mugaru, fish net W ma:nda, fishing line, string W W mudiga, motor car (Loan) durbay, fishing rod (about 4' W diya, chair (Loan) W long) and line W yingin, (cane train) engine warugay, fishing rod (about 1' W (Loan) long) and line K - Food, fire, water layn, fishing line (Loan) W cubu, rope (Loan) W H dalguru, meat В WB gungul, non-flesh food i.e. WB wulgu, bark canoe wardan, raft W fruit, vegetables, honey gagara, cane dilly-bag WB W gaygamali, (non-flesh) food mindi, grass dilly-bag W W du: |, salt (Loan) dandu, smaller grass dilly-W W gawangawan, rice bag (used for carrying WB- wagun, fire, tree, wood valuables around); kangaroo mayba, fire (less-used pouch alternative to wagun) nuba, bark water container --H wambuy, fire, tree, wood ginba, bark water container WB WB guyila, charcoal (Lumholtz: flame)

```
bugan, big bush fire or big
                                     −B
                                         gawulgawul, wind
      grass fire
                                     W
                                         gudulbara, whirlwind
    dilin, hot coals, charcoal
W
                                     WB
                                         gambara, cyclone
    nibal, coals, opium
WB
                                     WBH gundunu, thunderstorm,
    rulmbura, ashes
WB
                                           thunderclap
WBH bunu, smoke
                                     WB
                                         maydala, lightning
    nalmandara, light, e.g.
                                     WBH yugan, rain
      lighted torch
                                     WB mugunduru, hailstone
W
    -nalmandarama, Vtr. make a
                                     M - Geography, etc
    na:[a, light (in distance)
                                     W H mida, camp, house
    diga, cigarette (Loan)
                                     W H balgan, house, hut
    ŋalu, (fresh) water
                                     W
                                         *yabun, large camp, lots of
--H gamu, (fresh) water
                                           people camping together
    wagun, sea, salt water
                                         mindi, corroboree ground
                                     W
  H bandin, sea, salt water
                                     WB
                                         burun, fighting ground
W
    yuralbara, big river
                                     WB
                                         yalgay, road, track, path
WB malan, creek
                                     WBH gayi, ground, earth, dirt
    biyu, small creek, gully
                                     W
                                         *bumba, dust
W
    durala, big flood
                                     WB
                                         warup, sand
W
    ginda, waterfall
                                     WB
                                         buymaran, sand
W
    yungun, swamp
                                     WB
                                         gurna, mud
W
    dalngan, froth (on waterfall
                                      BH wada, mud, clay
      or gully)
                                     WB
                                         madila, white clay
W
    gurugu, grog (Loan)
                                     W
                                         galmuru, yellow clay (and any
W
    biya, beer (Loan)
                                           yellow object)
    di:, tea (Loan)
                                     W H magira, red clay
                                         dilgan, hole
                                     WB
L - Celestial, weather
                                         yinari, cave, hollow (also Adj,
                                     WB
WB wi:, sun (sometimes
                                           hollow)
      pronounced [wui])
                                     W
                                         *yalbar, flat ground
W- balanu, moon, month
                                     WBH bari, stone (generic)
-B balan, moon, month
                                     W
                                         guyan, quartz, quartz knife
-- H yilgan, moon, month
                                     W
                                         badala, flat rock
W
    yirgindara, star (generic)
                                         -mugal badala, bald head
                                     W
WB wumbugiri, star
                                         munan, mountain
                                     W
    yabulga, morning star
W
                                     W
                                         balbi, sloping bank
WB
    murgalngan, seven sisters
                                     W
                                         duru, ridge, shoulder, upper
WB
    buya, shooting star
W
    digubina, falling star
                                     W
                                         yuruyubi, river bank (only in
      (mythical person
                                           song)
      'ugly old bugger')
                                     W
                                         bugan, forest, grasslands
W
    ηulmuru, dark, darkness,
                                     WB
                                         dulgin, (thick) scrub
      night
                                     WB
                                         nardi, country (generic) e.g.
W
    gundambula, very dark (night)
                                           naygu nunga nardi 'this is
W
    biligi, daybreak, early in
                                           my country'
      morning
                                     W
                                         gunin, coast (also 'south')
    gundabara, fine weather
W
    banina, summertime, hot sun,
                                    N - Flora
      sweat
                                     WB wagun, tree, wood, large stick,
W
    birgibara, wintertime
                                           fire
WB wuma, shade
                                     --H wambuy, tree etc
W H yamani, rainbow
                                         wirba, small stick
WB dura, cloud, sky
                                     W
                                         *muwari, any big tree
WB gumburu, fog, mist
                                           (providing shade)
    gumbur, dew
                                     WB
                                        mara, leaf [LC and NB gave mara
W-
    gulubu, wind
                                           but JT gave mara
```

W	gubu, small leaf (including tea		eaten by birds)
	leaves), typically in piles	W	budu, larger paperbark tea-tree
W	manga, flower		bark used for humpy and torch
W	bigal, bark	W	dalaba, long wild yam (can be
WB	ginaça, root		eaten after minimal cooking)
W	dumbil, flange of tree	WB	wanuy, round yam (requires
W	ya:, top of tree e.g. gagara		cooking)
	wagunda ya:ŋga 'the possum	W	bundu, edible root of a climb-
	is at the top of the tree'	••	ing plant (see vondo in
W	gargal, branch, arm		Lumholtz 1889:207,313)
W	yulba, end of branch	W	gamin, lawyer vine
w WB	nuluburu, stump	W	gambay, big lawyer vine -
WD		**	Calamus australis
W	dulgaça, log	W	mangi, lawyer vine used for
W	property property property property property for the property prop	W	dilly-bags
W	gagan, blady grass (used for	W	nayaba, seaside vine, grows in
	grass huts)		the sand just above high
W	gulbica, cane grass, spear		water level, used as fish
	grass		poison
W	bunabuna, couch grass,	W	bidaman, conjiboy plant
	weeds/rubbish	WB	barul, a vine-like plant in the
W	gu:ŋara, rubbish, weeds		mountains
W	*gardagarda, (any) prickle	W	gi:baṇa, very large fig tree
WB	bulburu, spotted gum, bubbly	W	banba, red fig - prob. Ficus
	gum (possum eats leaves)		destruens
W	yagabayan, large hollow gum	W	wira, black fig, with rough
•	tree in scrub - Eucalyptus		sandpaper leaf
	grandis	W	baygari, a river fig
W-	yiribara, blue gum tree	W	dalgawuru, big fig, grows as
<b>-</b> B	gulaçu, blue gum tree	**	parasite on another tree
WB	gurugan, bloodwood	W	naguba, Burdekin plum
WD	galgabara, she-oak (on	W	
W	river)	W	gindarigan, grass tree on
IJ			river bank (used for dilly
W	gidu, chider hardwood tree,	7.7	bags) - Lomandra longifolia
	and light made from it -	W	*dagaba[a, a grass tree
T 7	Halfordia scleroxyla	W	gagira, zamia fern and fruit
W	gingila, moreton bay ash (JT);	W	bulici, staghorn fern
	messmate tree (LC)	W	banginu, a tree fern
W	giman, firestick tree	W	yagal, pandanus
W	*galmbula, iron bark tree	W	dalu, palm tree - Archonto-
W	milbir, slippery blue fig,		phoenix alexandrae
	used for shields	W	murmbal, quandong (edible blue
W	gubaça, coastal tree with red		fruit)
	bark, used for yamsticks	W	guyumulu, quandong (edible blue
W	gulawun, Leichardt tree		fruit)
W	gubula, black pine -	W	mu:ci, tree with small blue
	Podocarpus amarus		fruit, size of a peanut
WB	waŋa, black bean -		(bark used for canoes)
	Castanospermum australe	W	guŗbala, wild banana tree
W	maŗaga, river cherry tree	WB	girgingan, lady finger tree,
WB	dabugay, wild cherry (clusters		edible berry-like fruit
	of sour fruit on a small	W	mulgalgay, green ginger
	plant, used for jam)	W	bayuḍa, a coastal ginger
W	dargala, mangrove (used for	W	ηυςgi, ginger, bears no fruit
	boomerangs and spears)		but leaves used to wrap fish
W	galbay, wattle tree		for baking
W	walngan, river tea-tree (fruit	W	gaban, acacia tree, and the

```
white grub in it
                                    WB
                                        danali, stinging tree -
    *madal, cocky apple tree
                                          Dendrocnides moroides
W
W
    dangura, turpentine tree,
                                   W
                                        mangu ~ mayngu, mango (Loan)
      bark used for canoes
                                    W
                                        narindi, orange (Loan)
O -ADJECTIVES
Number and identity
WBH yungul, one
     yungura, another one
WBH yaga, two
WBH
    garbu, three
     gumarbari, a lot, many (e.g. people, animals, leaves)
WB
     dagin, a lot, much (e.g. dirt, fish, water, food)
WBH
       The difference in meaning between these two words is not clear.
     yalndabara, a very large number e.g. big mob of cockatoos, huge
       pile of leaves
     gi:bara, mark on message stick to indicate approximate number of
       people from a group planning to attend a corroboree, glossed as
       'a hundred'
     munara, by oneself, alone - nayba munara gagabali nirwara 'I'11
WB
       be going on my own tomorrow'; nayba di:gibali munara 'I was
       sitting by myself'; ninda gi:ba munara 'you scratch yourself!'
     ŋalma, one's own (object or section, etc) - waŋal ŋalma 'one's
W
       own boomerang'; puna nalmambigi gunbagi 'he cut his own [foot];
       nuna nalmambigi bangagi 'he paints himself'; naygu ninba nalma
       'you're my friend'
W
     gulbu, anything strange (strange thing or foreign person)
Colour
     gu:lu, black - muray gu:lu 'black hair'
W-
WB
     du:nda, black
W
     bambara, white
W
     margun, grey
Dimension
    wurbi, big - wagun wurbi 'big tree'; wurbi yugan 'big rain'; gungul
       wurbi 'plenty of tucker'
W
     garamu, huge - bingan garamu 'huge feet'
W
     dindibiri, big (used only of fish)
WB
     gida, small (also used as N, child)
W
     -gidaru, mob of small children
     pagaram, tiny (especially pagarambulu, very tiny); shallow (water)
W
     yaŋal, long, tall; and also yaŋaba[a, yaŋandari with same gloss
W-
     quran, long, tall
-B
W-
     dudulu, short
-B
     dudu, short
     bilngiri, wide - wurbi nuna bingan bilngiri 'he has large wide
WB
       feet'
W
     balbala, fat (person)
     nagul, deep (also used as N, deep water hole)
W
W
     dingara, shallow (water) [see also gadala/ŋarala, dry, shallow]
W-
     dulumbara, straight
    milburu, straight - yalgay milburu 'straight road'
W
W
     waruwaru, crooked
```

```
Physical property
     bandadala, full - naygu gagara bandadala 'my dilly-bag is full'
W
     da: la, empty
     dawup, hot (from fire) - dilin dawup 'hot coals'
WB
В
     bayngira, hot
     banica, hot (sun), summertime, sweat, hot (from sun)
WB
WBH
     gidul, cold - nana giduldu mu:ngi 'the cold makes me shiver';
       gulubungu napa gidulmay 'the wind makes me cold'; see also (50)
W-
     marpa, wet
     *nulndirin, wet
-B
W-
     gadala, dry, shallow
-B
     narala, dry
     dabini, sharp(ened) (Loan) - puna dabinima bayindu 'sharpen it
W
       with a file!'
     wardal, sharp - damiya wardal 'sharp tomahawk'
WB
W
     mulmbin, blunt
     qundil, heavy - nayqu mugal gundiligi 'my head feels heavy'
W
W
     nandal, heavy (a Giramay word, also used in Wargamay)
     dagardagar, rough, prickly (skin, leaf, etc)
W
W
     gagal, hard, solid - wagun gagalgagal 'solid tree'; namun
       gagalgagal 'firm breasts (on woman)'
     dalna(dalna), hard - dalguru dalnadalnambigi 'the meat got hard'
W-
     muguru, hard (e.g. meat, wood), strong (e.g. person, spear)
−B
WB
     yinari, hollow (also N, cave, hollow)
WB
     mundal, soft (e.g. cooked meat), weak (e.g. person)
WB
     naba, ripe
     gunga, green, unripe (vegetables), raw (meat), alive (person)
WB
W-
     dunu, (good or bad) odour [this is probably best regarded as an
       abstract noun]
W
     nugi, bad smell, stinking
     giyal, sweet (food, honey), savage (e.g. dog), poisonous (e.g.
W
       fangs of snake)
В
     mada, salty
WB
     marnda, salty, bitter, sore
     mapalmapal, stinking, bitter, dirty - naru mudalda gawambama
W
       mapalmapal 'don't eat the stinking thing, it will make you
       spew up'
     bunan, stinking
W-
     buga, rotten, stinking, dead - see (182)
WB
W
     burnul, rotten (e.g. wood - dry and light)
     danu, broken - wargin danumbigi 'the boomerang broke'; wanal danu
WB
       'the boomerang is broken'; daranga dulgil danumbigi 'a bone
       broke in [his] thigh'; yulba danuma 'break the branch!'
     baga, shut, blocked - nayba bina wi:gimbigi/ bagambigi 'I forget
W
       it' (literally 'my ear has become no good, has become blocked');
       also bina baga 'deaf', gayga baga 'blind'
     mundu, naked - see (32)
WB
     balgun, clear, open - nayba balgunda duwaray 'I stand out in the
W
       open (when a cyclone comes)'
Age and value
     ganbaymu, very old (person, object, or action - done many years
       ago)
WB
     nalamburu, good (general term) - ninu nayi nalamburu 'you have a
       good voice (for singing); and see (229)
     mali, good, pleasing (especially food and drink, but can be
WB
       applied to anything)
       These two terms seem fairly synonymous, and can be alternated
```

```
for felicity of discourse e.g. Question yalgay palamburu 'is
       the road good?', Answer nayi, mali 'yes, it's good'
     palngirgan, good-looking, pretty (woman, girl) - puna yibi
palngirgan/ dara wurbi 'that girl's pretty, she has big thighs'
WB
     dirbinga, very good-looking (woman, girl)
W-
     gulgiri, prettily painted (e.g. man) - nuna gulgirimay bangay 'he
       is painted prettily'
     wi:qi, no good - qambara nayba wi:gimbigi 'my body feels no good
WB
       (e.g. I'm tired)'
     wi:gina, no good - wi:gina nuna buga 'that fellow no good, he
W
       stink'; nada wi:ginamay 'I made a mess of it'
       The difference in meaning between these two words is not clear
     manabagay, ugly - minagu wa:dibali/ nana nunday manabagay 'why
W
       is he laughing?' 'he saw me looking ugly'
Human propensity
     dilbay, know how to do something - see (236)
W
     mulgara, game to do something, brave, see text 8.4,13
W
     bungal, glad, proud, happy - nulanga babay bangaydu/nuna
       bungaligi 'he speared [a kangaroo] and now he's proud'
W
     ma:ngay, stupid, silly - pulanga ma:ngadu gunbagi bingap 'the
       silly person cut his own foot (on purpose)'
     garba, stupid
В
     biridi, general term of disapproval, to describe someome who is a
       nuisance or 'no bloody good'; translated as 'bugger' or
       'bastard'; see text 8.12.
W
     nudu, pretending, lying, malingering
     ganda, stealing (see Vtr, ganda, steal) - wi:gi nuna gandabulu
WB
       'he's no good, a real thief'
WB
     milgal, greedy
     bi:[a, frightened (also N, fear) - nayba bi:[ambigi 'I was fright-
W
       ened'; see also (44), (64), (67), (235)
W
     dagul, worried, sorry, pitiful, 'poor fellow'
     ruyu, playing around - yibiyibi ruyumbigi 'lots of kids are play-
W
       ing around'; see also yayimbali, Vint under V - Corporeal verbs
     wunan, lustful, promiscuous; and wunanbulu, larrikin, harlot
W
     gawan, angry, cheeky (person), savage (dog) (also N, anger) -
W
       nayba gawan 'my temper is up'; and see (230)
     garingi, cranky (Loan) - garingibara 'cranky person'
W
Corporeal
     garangala, strong (man)
-R
     muguru, strong (person, spear), hard (meat, wood)
     mundal, weak (person), soft (e.g. meat)
WB
W
     balbala, fat (person)
     namiri, hungry - nayba namirimbigi/ minagu/ gungul naga mudagu
'I'm hungry' 'What for?' 'I want to eat vegetables'
WB
W
     manday, satiated, full up with food - naygu yulgu manday 'my belly
       is full'; see also (36)
В
     bungul, satiated, full up with food
     nayi, thirsty (also N, voice) - nayba nayu nalugu/ dannalagu 'I'm
WB
       thirsty for a drink of water'
     wuqar, sleepy (and N, sleepiness) - nuna wugargiri 'he's sleepy';
W
       wugar nunga ma: | bungilagu 'this sleepy man wants to lie down
```

(and sleep); and see (15), (24), (174)

WB

wudil, asleep, - nada nina wanay/ ninba wudilgiri bungilagu 'I left

you to lie sleeping (i.e. I didn't wake you, although your snores

disturbed me)

- W \*bayngara, tired (from work or other effort), rendered by LC as 'buggered up'
- yirgal, itchy yirgal/ nayba gi:bay 'I'm itchy and I scratched -B myself'
- marnda, sore (+ body part), bitter, salty nayba nayilngara WB marnda 'my neck is sore'
- winin, sore bingan naygu winin 'my foot is scre' WB
- mulga, half-blind (and see gayga bada 'blind') W
- gunga, alive (person), raw (meat), green, unripe (vegetable) -WB see (237)

Speed and adverbial

- milmuru, spinning (e.g. top or boomerang), moving fast (of wheeled vehicle - literally, wheels are spinning) - wargin milmurumbigi 'the boomerang is spinning'
- gawuy, (do) quickly bu:diya gawuy 'pick it up quickly!' WR
- cabi, (do) quickly cabi bimbiriga 'run quickly!' W These two words were said to be synonyms
- \*bingira, (do) quickly, hurry up **-**B
- WB
- gubup, slow, slowly bilmba ninda gubup 'push it slowly'
  gunguru, (do) hard gulubungu gimbi gunguru 'the wind blew hard'; WB dunguru nayba bimbirigi 'I ran hard (to escape the bullock that was chasing me)'; napa nunday dunguru '[he] stared at me'; dunguru ni:ra 'tie it tight'
- gargiri, finished nada muday gargiri gungul 'I've eaten all the WB food up'; nada gargirimay gunbay, translated by informant as 'cut finish'

### Positional

- Wgaymbiri, everywhere, all over the place - see text 7.8,15
- mu: pa, hidden, out of sight, (fire) extinguished ninba mu: pambiga 'you hide!'; nulmbupungu mu: pamay naga nundalma 'the woman hid [the food] lest I see it'
- budul, vanished, disappeared see texts 5.16,24, 6.19 W

## Miscellaneous

- wayu, turning into see text 6.9,18
- dulbun, married na:ndu dulbunmay 'who married her?'; and see WB text 8.11
- -dulbunma, Vtr, marry (alternative is di:qima, from di:(gi) 'sit WB down')
- -dulbungin, N woman who claims her promised husband nuna dulbungin nulmburu ma: gu nunigu 'the woman is going to search for her promised man'
- magul, working (also N, work); most often verbalised wanganga W ninba magulipu 'where do you work?'; see also (16), (37), (77), (176), (240)
- W yubay, be away
- -yubayma, Vtr, take, steal ma: Indu yubaymay nulmburu 'he stole W. the woman'; see also text 6.6
- -yubaybi~yuba, Vint, run away ŋulmu[uŋga ŋayba yubaybigi 'that W night I ran away'; see also texts 7.3, 9.4,12

#### VERBS

- P Motion and induced motion
- gaga, int, go/come. The unmarked sense is motion away from speak-

- er ŋaru gagada yulbanga 'don't go to the end of the branch (lest it break)!' However it is sometimes used to indicate motion towards the speaker ɲuna naygungu gagabali 'he's coming for me'
- WB gadaymbi, int, come. This has the form of a verbalisation, although no root gaday has been encountered
- WB pagumbi, int, come. This involves productive verbalisation of the deictic pagu 'to here' (3.4.3) see (94). One informant contrasted nadaymbiga 'come here!' and pagumbiga 'come closer!'; this meaning difference has not been confirmed
- WB wuna, int, go walkabout wanganga nura wunabali 'where are you going walkabout'; and see (29), (30), (175), (207-8), (216)
- WB wuna, tr, chase gumuburungu nana wunalgani 'the bullock is chasing me'; see also text 7.1,8,15 and (56). (92). (187)
- W gu:ngi, int, come out, emerge, arrive nuna walnga gu:ngigi 'he sighed'; see also text 9.19 and (121), (165)
- W dumba, tri, go in, enter, put in dulginda nayba dumbagi 'I went into the scrub'; nulanga mana dumbalgani 'he [a bird] keeps putting leaves into [a nest he is building]'; naru nalu di:nga dumbalda 'don't put water in the tea!'; nalunga dumbay milga/ yugangu '[I] put the rainmaker [in position] in the water, for [to make] rain'; dumba nuna 'put it [a handle on the axe]'; and see (125), (158-9), (228)
- W wuda, tr, take off ninda gambi wuda 'you take [your] clothes off!'; bigal wuda 'take the bark [off a tree, to make a canoe]!'
- W \*yimba, tr, put on (clothes) balgubalgu ŋaga yimbay 'I've put [my] hat on'
- WB bayi, int, go around, get tangled up wagunda nuna bayigi/ mu: nambigi naygunda 'he went around the tree, hiding from me'
- W bana, int, return (person or boomerang), go home, come home nayba banalagu migagu 'I must return to the camp'; see also (209), (213-5)
- W nanba, tri, follow (person, tracks, path, river) ninda nanba yalgay 'you follow the path!'; see also (85)
- W dayga, tr, hunt away (person, dog, etc) see (174)
- W parnga, tri, rush in on, raid, arrest see text 7.14
- W ba: Iba, tr, roll bari ninda ba: Iba 'you roll the stone over'
- W ba:|bali, int, roll, tumble over and over bari nuna ba:|baligi 'the stone rolled [down the hillside]'; nayba ba:|baligi 'I rolled over'
- WB ga:nda, int, crawl. Data in B from NB has transitive inflections on this intransitive verb ga:ndalma, naru ga:ndalga, ga:ndalani; data from LC on the W dialect shows regular intransitive inflections e.g. ga:ndabali (see 3.5.3)
- WB birba, int, jump di:din birbay 'the wallaby is jumping'; nayba birbagi/ windingu nana birramanu 'I jumped when frighted by the snake'; see also (76), (177)
- W nugi, int, dance mindinga nayba nugilagu 'I want to dance in the corroboree ground'; see also (58), (233)
- W yinbi, int, fly gi:gi: yinbigi 'the bird flew away'; nuna marbal yinbiyinbibali 'the fly is flying around'
- WB bimbiri, int, run, run away see (6), (187)
- -B bili, int, run
- W dagi, int, fall down binganga nuna dagigi 'it [the boomerang returned and] fell at my feet'; nayba gagima 'I might fall down (if I go that way)'; see also (179), (180), (188)
- B budi, int, fall down buya budigi 'the shooting star fell

(through the sky)'

- WB wala, int, arise, go up (tree/mountain) nayba walagu gadaragu ya:nga 'I go up to the top of the tree for possums'; nada danbanu/ nuna dagigi/ nuna walay/ nuna bimbirigi/ nada wunay 'I hit her and she fell down, then she got up and ran away, and I'm chasing her'; and see (2), (15), (81) [This verb may take transitive inflections in B.]
- WB bira, int, go down, descend
- WB wigga, int, bathe, bogey nayba gagabali wiggalagu 'I'm going for a bathe'; see also (164)
- WB yugara, int, swim (i.e. travel through water to get from one point to another most instances of English 'swim' i.e. 'swim about in one area' would be rendered by wirga)
- W naba, tr, soak (food or tea, etc) nalunga naba gubula 'soak the black pine nuts in water!'
- wargumba, tr, wash (e.g. children, clothes) nulanga gambi wargumbagu naygu 'he [went] to wash my clothes'
- W walmbi, tri, lift up, pick up, wake (someone) up galaba ninda walmbiya 'pull up that yam'; naga nuna walmbinu/ wugargiri 'I woke him from sleep'
- W da:lbi, tri, scoop up water in container ninba gagaga/ nalugu da:lbilagu/ gurgara ninda bu:diya 'you go and scoop up some water and bring the billy-can [full of water, back here]!'; nalu da:lbiya 'scoop up some water!'
- WB ma:ni, tri, hold in hand, hold onto, catch hold of, catch something thrown, grab naga nuna mala ma:ni 'I grabbed her hand'; nana nayilngara ma:ni 'he choked my neck'; garindu bangay ma:na 'hold the spear in the woomera!; see also (84)
- W- niyawuda, tr, grab with hand (e.g. grab woman)
- WB bu:di, tri, take/bring, carry nada nunga ma:l bu:di/ naygungu gulmbal 'I take this man [to go] with me as a mate'; naguma ninda budi:ya 'you bring it!'; see also (38), (79), (185), (216), (224-5)
- WB gulguma, tr, bring in, muster ŋaḍa wagun gulgumay 'I bring the wood up'
- WB gu:ga, tr, (water) washes (something) away gugalangu nana gu:galma 'flood might wash me away'; and see (126)
- WB du:yi, int, feel around e.g. put hand into log to see if possum or sugarbag is there ninba du:yiga/ wagunda gida 'you feel in the log, poke with a stick!'; nayba du:yigi/ maya 'I felt around, there is nothing there'
- WB gida, tr, poke (something) with a stick e.g. poke stick into hole to see if an animal or sugarbag is there wicbangu ninda gida gadara 'you poke for possum with a stick!'
- WB du:[a, tri, pull, pull up, pull out gadan dingiridingiringu mulindu du:[algani bayibayimalgani 'the willy wagtail pulls up grass with his mouth and tangles it up [for his nest]'; mala ninba dumba/ gadara ninda du:[a 'you put your hand in [hollow in tree] and you pull out a possum!'; and see (14), (188)
- WB bilmba, tr, push nuna bilmbay guralangu gurnara 'the flood washed all the rubbish down'
- WB burmbi, tri, throw, chuck, throw away, cast line into water gapumbul nana burmbi yaramandu 'a horse threw me earlier on today'; gurbay nuna bu:diya/ burmbilagu ga:bugu 'take the fishing line, to throw it out for fish'; garnga burmbilgani nulanga badagu 'he spat at (literally, chucked spittle at) the dog'; and see (13), (75), (167), (182)

- W gilnga, tr, pour water on wagun gilnga/ minagu/ gagan gandama 'pour water on the fire [to extinguish it]!', 'why?', 'lest the grass catch on fire'; naru nalungu gilngalga/ di: gidulmalma 'don't pour water into the tea, lest it make it too cold'
- WB wagiri, tr, overturn, capsize, spill/pour (water) ηaga wagiri ηalu 'I spilt the water'
- W bayumbi, tri, shake (e.g. tree), wave (e.g. hand), swing anything round, turn oneself around ŋaḍa wagun bayumbi 'I waved a stick OR I shook a tree'; ɲuŋa wagun bayumbigi 'the tree is waving (in the breeze)'
- WB dangumbi, tr, fan balgubalgungu dangumbi nuna wagun 'fan the fire with [your] hat!'
- Q Giving
- WBH wugi, tr, give see 4.6.3; also namundu wugiya 'breastfeed [baby]'; qilnandu nana wugi '[he] gave me [his] cold'
- W bayima, tr, buy (Loan from buy, verbalised) ŋaga bayimay ginaman 'I bought the boots'
- WB ganda, tr, steal (see also Adj, stealing) nulanga gandalgani mani 'he's stealing money'
- R Position and induced position
- WBH gi:(gi), int, sit, sit down, live (see 3.5.3) wumanga nayba gi:gibali 'I'm sitting in the shade'; nuluburunga nayba gi:gilagu 'I'll sit on the stump'; yinamba nayba gi:gibali 'I live in Ingham'; see also (49), (103), (176), (210)
- W -di:gima, tr, marry nada nuna di:gimay 'I married her'
- W wanguri, int, kneel down, squat on haunches
- W duwara, int, stand, stand up see (78), (95), (166)
- W binda, tri, put standing up, build (house); defecate, urinate, spit
  (with faeces/urine/spittle in instrumental or absolutive case):
  nayba du:dara/du:darangu bindalagu 'I need to pee'; mida nada
  bindagu 'I'll build a camp'; nulanga ma:lndu milga binday 'the
  man put the rainmaker in position'
- WBH bungi, int, lie down, sleep, live (takes transitive inflections in B 3.5.3) nayba yaga balan bungilma 'I'll camp here for two months'; and see (52), (174)
- # \*da:ngi, int, sleep [Obtained only from LC who then said that bungi
  was properly 'lie down' and da:ngi 'sleep'. However bungi does
  have the sense 'lie down to sleep' in other elicitation.]
- WB walnga, int, float (on water)
- WB ga:lba, int, be stuck e.g. person stuck in mud or fence etc, meat stuck in throat, branch stuck and can't be budged nayba ga:lbay gilganda 'I got stuck in the hole (in the ground)'
- WB gigari, tri, put down wumanga naga nuna gigari/ gidulilagu 'I put it down in the shade, to cool'
- W buyngari, tr, hang up see (122)
- W wana, tr, leave (it) be ninba gagaga/ nulmburu ninda wana 'you go away, you leave the woman alone'; gurugu nada wanay 'I've left off grog (i.e. stopped drinking it)'
- W guda, tri, block, shut (door), close guda gilgan 'shut the door (literally: shut the hole)'; manga gudagi 'flower closed up'
- WB bana, tri, bend (e.g. to describe manufacture of boomerang by warming and bending) dulngu bana 'choke'
  See dagal/da: bana 'yawn' under Corporeal.

## S - Affect

- WB burba, tri, hit with long rigid implement, held in the hand nulanga nana burbay wagundu 'he hit me with a stick'; gana
  burbalagu wu:nga 'people have to fight each other in a war';
  bunun nulmburungu nulanga burbalgani malangu 'the women are
  continually banging drums with their hands'; see also (192),
  (194), (249)
- W minba, tr, hit with long rigid implement (e.g. stick or boomerang) which is thrown - ŋaḍa puŋa wagundu minbay 'I hit him with a stick'
- WB bunga, tri, shoot bunga puna bada 'shoot that dog'
- WB ganba, tri, hit with rounded implement, held or thrown (e.g. stone, fist) malangu nana ganbay '[he] punched me'; see also text 5.15 and (180-1)
- WB gilwa, tr, kick bingangu naga gilway; or shove with knee gilway bungungu; see also (184), (190)
- WB bayguri, tr, shake (e.g. dog swings its tail), wave, bash i.e. put
   in motion in trajectory, holding on to it (may or may not impact
   on some other object) nada gu:gara bayguri dungiringa 'I
   [picked up] the goanna by its tail [and] bashed it [on a tree,
   to kill it]'; and see (106), (178)
- WB ginda, tr, blaze, make steps up tree to assist climbing
- WB bardi, tri, (rain) falls on, wets (someone) see (125), (154-5)
- WB gunma, tr, squeeze e.g. knead flour for damper ŋalu gunma 'squeeze water [out of something]'; ŋaga gunmay gungul 'I squeezed the fruit'; ŋaga gunmagu budam 'I must squeeze matter (from the blister)'
- W badi, tri, hook (fish); also hook woman (to take as wife) naga nulmburu badi/ naygu bulgumagu 'I'm hooking the woman, to make her my wife'
- W- baba, tri, pierce, spear (specifically: spear on land), rub firestick to make fire - ŋa:ndu gi:gin babay 'who speared the wallaby?'; ŋaga giman babagu 'I must spin the firestick'; see also (59), (168)
- -B gandaba, tri, spear (probably = baba)
- W ginba, tri, spear something in the water naga ga:bu ginbay 'I speared a fish'; see also (224), (226-7)
- WB gilba, tr, dig naga yaga gilbay gilgan 'I dug two holes'; naga gagan gilbay 'I dug the grass'
- W dulbamba, tr, bury (deeply) e.g. bury a body in a graveyard see (68)
- WB yu:mba, tri, bury (to shallow depth); in intransitive constructions it was glossed as 'hide [oneself]'
- W nu:ba, tr, sharpen, grind nu:ba nuna bargu baringu 'sharpen the axe on a stone!'
- WB gi:ba, tri, scratch, scrape, shave gayi naga gi:bay 'I scratched up the ground'; nayba gambara gi:bagi 'I scratched my body'; galbara naygu gi:balagu 'I want to shave'; gugilangu gi:balgani gagan/ bungimagu nulanga 'the bandicoot is scratching up grass (heaping it up) to camp on it (i.e. for a nest to lie on)'; see also (137), (140), (212)
- WB gungari, tri, cut down, cut through see (166), (170-2), (217), (241)
- WB gunba, tri, cut a piece out of, cut into, cut open ŋuluburungu nana gunbay 'the stump cut me (when I backed into it)'; nayba gunbay gurmaligu 'I cut myself so that blood flowed'; see also (138), (141), (142), (168)

- W bandali, int, burst, smash, break (e.g. chicken comes out of egg) see (167), (205-6)
- WB ganda, tri, burn, make fire, be burning galguru naga ganday 'I burnt the meat'; giman ninda baba/ wagun gandagu/ nayba gidul 'you rub the firestick to make fire, I'm cold'; see also (90-1), (127), (136), (139), (246)
- WB dalgi, tri, cook ninda dumuburu naygu dalgi 'you cook beef for me!'; gungulndu nayba dalgibali 'I'm cooking tucker'; and see (173), (190)
- WB binga, tr, make fire blaze up (by fanning, blowing on it, stoking it up, etc) - ninda wagun binga galgigu midin 'you make the fire blaze, to cook the possum [on it]'
- W muymba, tr, extinguish fire, put light out wagun muymba ŋaluŋgu 'extinguish the fire with water'; ma:ni nuna muymba 'press the button and the light goes out!'
- WB gurga, tr, tie up with rope, join on see (218)
- W ni:[a, tri, tie up nada guma[bari yaraman ni:[ay 'I've tied up lots of horses'; [ubunga nana ni:[ay '[someone] tied me with rope'
- WB gu:ra, tr, rub, wipe
- W banga, tri, paint (e.g. shield, person) (with lawyer cane brush), write see (222)
- WB mada, tri, paint (e.g. shield, person for corroboree) ŋinda bigin mada 'you paint the shield!'
- WB gu:ba, tr, cover with water e.g. the moon covers grass with dew See Corporeal for gimbi, (wind) blow

## T - Attention

- WB migiri, int, wait yala nayba migiribali/ gagara gu:ngilagu/ naga ma:nigu 'I'm waiting here [by the possum hole], for the possum to come out, then I can catch him'; ninba gagaga/ malanda ninba migiriga naygungu 'you go ahead, you wait for me at the river!'; see also (79), (248)
- WBH nunda, tri, see, look nulanga nana nundalgani 'he's watching me'; nuna nundabali 'he's looking'; naga nunday nalunga nunin 'I saw my shadow (or reflection) in the water'; see also (12), (54), (71-2), (82), (99-100), (156-7), (177), (193)
- WB wa:ba, int, look up, for sugar-bag (bee's nest) only ŋayba
  wa:balagu wubirigu 'I'll look up (in the tree) for English bee's
  nests'
- W nuni, int, search for, hunt for bambugu nayba nunilagu 'I'll search for [scrub-hen] eggs'; see also (4), (47), (242)
- W gaymba, tr, find yala nana waybalangu gaymbay 'the white man found me here'; see also text 8.7, (88-9)
- W milba, tr, show wargin naga milbay ma: lgu 'I showed the boomerang to the man'; see also text 7.2
- WB na:ra, tri, hear, listen naga gawal na:ray 'I heard a shout'; nugunugu/ naru na:ralga 'he's a liar, don't listen to him!'; see also (152-3), (162), (183)
- WB nu:ma, tri, feel nulmurunga nayba nu:manu:mabali 'I'm feeling around in the night'; gara naga nu:may 'I felt the [woman's] leg'; see also (123)
- WB gingara, int, dream
- U Talking, etc
- W- banma, int, talk nuna banmabali naygungu 'he's talking to me'; see also (7). NOTE that NB gave mayay-bi, a verb derived from

- mayay 'language' as the B equivalent of banma
- WB maynga, tri, tell (addressee as Object) ŋa:ndu ŋina mayngay 'who told you?'; bulimangu mayngalagu '[you] should tell the police'; see also (191)
- \*wa:nda, tr, rouse on, tell on i.e. tell someone that the referent
   of the Object NP has done something e.g. tell the police that
   people are fighting pulanga napa wa:nday nuri 'he roused on me
   in return'
- W gi:ga, tr, tell to do, let do when JT recommended I contact LC he told me to say to him: ga:ningu nana gi:gay barbalagu/ ninda mayngagu nana wargamaygu 'Johnny told me to ask you to tell me about Wargamay'; na:na ninda gi:gay wagungu 'who did you send for wood?'; walnga gi:ga 'sigh (literally: let wind go)'; see also (243)
- W pinga, tr, stop someone, block something see (194)
- WB barba, tri, ask nuna waybala gungulgu barba 'ask the white man for vegetable food!'
- W \*njyanma, tr, ask (LC said this was the 'high word' corresponding to barba)
- W- ŋarı, tr, answer ŋaga nuŋa ŋarılma mamu 'I'11 answer him by-andby'
- WBH baya, tri, sing (Object is song or song-style) nana bayalagu mindinga 'we'll sing at the corroboree ground; see also (162)
- W walmbari, int, (dog) barks puna bada walmbaribali mipagu 'what's
   the dog barking for?'; see also (69)
  See also ga:ma 'do like this, say' in W; and derived verbs gubil-i
  'whistle', bu:nguray-mbi 'snore', gawal-i 'call-out', mayay-(m)bi

## V - Corporeal

- WBH muda, tri, eat (meat or vegetables) nayba namici mudabali gungulndu 'I'm eating vegetables [because I'm] hungry'; see also (97-8), (124), (143-4), (146), (189)
- WBH gunda, tri, bite gumungu gundalma 'the mosquitos might bit [us]'; see also (46), (61), (84), (145), (243), (250)
- W yu: ra, tr, swallow

'talk' under I.

- W runnda, tr, suck
- WBH danna, tri, drink nalu bu:diya naygungu dannagu nada 'bring me some water so that I can drink it!' see also text 5, (147-51), (185)
- W gawamba, int, vomit nayba gawambay/ bugangu dumuburungu nana nulanga waybalangu wuginu 'I vomited because of the rotten beef the white man gave me'
- WB nugumba, int, vomit
- W dagal bana, int, yawn
- B ga: bana, int, yawn nayba ga: banay 'I'm yawning'
  These forms involve the noun 'jaw' and transitive verb 'bend' literally 'bend jaw'. Although bana 'bend' is basically transitive 'yawn' appears to be intransitive. They are probably
  compound verbs (and should then be written each as one word).
- W mupi, int, blink (eyes) gayga mupibali 'blinking eyes'
- W H balmbi, tr, smell ninda balmbiya bada buga 'you smell the dead dog'
- WB buya, tri, (person) blow, smoke (tobacco) ninda wagun buya 'you blow the fire!'; naga baybu buyalgani 'I smoke a pipe'; see also (101-2), (220)
- W- gimbi, tr, (wind) blow gambarangu nana gimbi 'the cyclone is

blowing me away'

WB

W niggima, tri, tickle (mainly or wholly sexual petting) - naga nulmbugu nigginiggimay 'I tickled the woman'; nayba nulmbuguu niggimalagu 'I want to tickle the woman'

NOTE nigginiggi was also given as N, glossed 'nymphomaniac'

nu:nda, tri, kiss - ninda nunga nu!mburu nu:nda 'you kiss this woman!'; ninba nagumbiga nu:ndalagu 'you come here to kiss

[someone]'; see also text 8.8, (19)

- W buyburi, tr, make a raspberry at someone in derision [phe] nana nulanga buyburi 'he made a raspberry at me'
  Compare with garnda binda, garnda burmbi 'spit at' (under R and P above)
- W wuymbi, tr, lick badangu nana mala wuymbi 'the dog licked my hand'
- W gu:ga, tri, swive, copulate with, fuck ninda nulmburu gu:ga 'you fuck the woman!'
- W guyma, tri, give birth to (used of human or animal) yabungu gubu bu:dilgani guymagu nulanga 'mother [rat] takes leaves [into her hole] so that she can give birth [to her young in an adequate nest]'
- W yu:[i, int, grow (children, animals), sprout (plants) see (68)
- WB purbira, int, be ill, sick, feverish
- W bidi, int, shake with cold nayba bidibidigi 'I shook with cold'
- W mu:ngi, tr, make cold, make shiver (subject generally winter or wind or similar) - birgiba [angu nana mu:ngilma 'winter might make me cold'
  - See also gidul 'cold', gidul-i 'become cold' under 0, Physical property.
- W bunga, int, swell up naygu waga badangu gunday/ naygu waga bungay 'my shin was bitten by a dog, and my shin has now swelled up'; gurmal bungagi malanga 'a vein swelled up on [someone's] hand'
- WB wula, int, die mamu ŋayba wulalagu 'I want to die by-and-by'; puŋa wulama 'he might die'; see also (178)
- W- ba:di, int, cry, sob, weep nuna nulmburu ba:digi naygungu 'the woman cried for me'; gana galndira ba:digi 'a mob of people all cry and mourn'; see also (10), (83), (181), (211)
- WB guyi, int, cry, sob, weep see (96)
- WB wa:gi, int, laugh nana waybalangu wa:gimay 'the white man is laughing at me', nuna wa:gibali naygungu/ naga burbay 'he was laughing at me and I hit him'; see also (186)
- W yimiri, int, be glad, feel glad nayba yimirigi 'I felt glad'
- \*yayimbali, int, play about (having joke, or making nuisance of oneself). See also ruyu, Adj under 0, Human propensity
- W Adverbial
- ga:ma, tr, do like this (without any accompanying verb the unmarked sense is 'say [like this]', with reported speech following) ga:ma ninda gungari 'you cut [the tree] like this!'; naru ga:malga 'don't do (or say) that!'
- W ηa: ramba, tri, try to do (but fail) wagun ηaga gunbay ηa: rambay 'I tried to cut the tree down'. This is plainly related to the particle ηa: ra 'can't do' see 4.10.
- W nu:ga, tri, test, taste, try out naga nalu nu:gay/ maya/ nuna nalu wi:gina 'I tried the water but no, the water was no good'

```
X - LOCATION
                                             a week ago ('the other day');
     gungari, north(wards)
                                             LC: yesterday
W
     gulbila, south(wards)
                                     W
                                          nulganga, LC/JT: yesterday: NB:
     guwa, west, tablelands
                                             tomorrow (NB gave as W
     yirgandi, people, goods and
                                             equivalent of B didalqu)
       places from north
                                     WB
                                          gundanga, last night
     gunin, people, goods and
                                     W
                                          ganumbul, earlier on today
W
       places from south;
                                     W
                                          gayba, now
       'coast'
                                     WBH
                                          gapu, later on today, directly,
W
     gulin, place way out east
                                             immediately; NB gave as
                                             'yesterday' in B, possibly
       where spirits come from
       and go to (variously
                                             an error
       glossed by LC as 'heaven',
                                     WB
                                          mamu, by-and-by
                                     W-
                                          nirwaga, tomorrow
        'hell')
W
     bamba, long way off - bamba
                                     -BH
                                          gidalgu, tomorrow
       naygungu 'too far for me
                                          bilidi, daybreak, early in
       [to jump]'
                                            morning
W
     mulu, near, close up
                                     W
                                          nulmuru, night-time
                                          gugu, meanwhile, wait-a-while
WB
     galaga, up hill, up in the
                                     WB
                                          pamu, for a short while
       sky
                                     W
WB
     gani, up river
                                     W
                                          garay, for a long time
                                     WB
     yu:nu, down (river?)
                                          yurmay, do all the time - nuna
     gingu, down (hill??)
W
                                             wa:dini naygungu yurmay
W
     guyabay, other side of river
                                             'he's laughing at me all
W
     da: lungal, in front, ahead
                                             the time'
W
     gugungal, behind - da: lungal
       ninba/ nayba gugungal 'you
                                    Z - INTERJECTIONS
       go ahead and I'll come
                                     W-
                                          maya, no
       behind'; gugungal balganda
                                          biyay, no
                                     -BH
       'behind the house'
                                     WBH
                                          nayi, yes
WB
     yulquruy, inside - nayba
                                     WB
                                          gawu, come on!
       yulguruy balganda 'I [went]
                                      В
                                          gala, try it!, try again!
       inside the house'; guranga
                                          pandu, I don't know (this
                                     W
       yulguruy 'inside a cloud'
                                            might possibly be an Adj,
                                            knowing nothing, the
Y - TIME
                                            opposite of dilbay - see
                                            O, Human propensity)
     gu:ŋara, very long time ago
     galmara, long time ago (a
                                          *guli, exclamation when
WB
       year to a few days)
                                            startled - jump with
                                            fright and say [gulé:]
     rugulu, JT: from a few days to
```

# LIST OF AFFIXES

As an aid to the reader, the following list shows all affixes from the grammar, with reference to the sections containing major discussion of their form and functions. Allomorphs formed by assimilation or shortening etc are referred to the appropriate canonical form.

```
-a, see -da locative-aversive
-a, see -na accusative
-a, see -ya positive imperative
-ani, see -lani continuative
-ba, reciprocal - 3.5.3, 3.5.6, 4.5

-ba, see -da locative-aversive
-bagun, 'really' - 3.1.3
-bal, post-inflectional affix -
3.6
-bali (W), continuative - 3.5.1,
3.5.3, 3.5.5
```

```
-ban, post-inflectional affix -
                                        3.5.3, 3.5.5
  3.6
                                      -lu, instrumental - 3.1.5, 5.4
-bara, belonging to, pertaining
  to' - 3.1.3
                                      -ma, irrealis - 3.5.1, 3.5.4
-bara, comparative - 3.1.3
                                      -ma, comitative - 3.5.1, 3.5.6,
-bi, inchoative - 4.9.1
                                        4.7
-bi, post-inflectional affix -
                                      -ma, instrumental - 3.5.2, 3.5.6,
-bigay, (W), 'without' - 3.1.3 -bigay (B), 'without' - 3.1.3
                                      -ma, causative - 4.9.2
                                      -mbi, see -bi inchoative
-bu, see -du ergative-instrumental -mira, 'for - nights' - 3.3 -bulu, 'very, lots of' - 3.1.3 -miri, 'as a result of, from' -
                                        3.1.3
-da, locative-aversive - 3.1.1,
  3.1.5, 3.2, 3.4.1
                                      -nda, see -da locative-aversive
-du, ergative-instrumental -
                                      -ndu, see -du ergative-instrumental
  3.1.1, 3.1.5, 3.4.2, 4.2,
                                      -ni (B), continuative - 3.5.3
  4.6.3, 4.8
                                        3.5.5
-da, negative imperative -
                                      -p \sim pip, ablative - 3.1.1, 3.2,
  3.5.1, 3.5.4
                                        3.3, 3.4.1-3
-da, see -da locative-aversive
                                      -na, accusative - 3.1.2, 3.4.2
-daman, addressee's kin
                                      -nu, perfect - 3.5.1, 3.5.4
  relation - 3.1.3
                                      -pu, subordinate - 3.5.1, 3.5.4,
-dan, post-inflectional affix -
                                        4.4
-gu, see -du ergative-instrumental -ŋaru, 'like a' - 3.1.3
                                      -ngu, locative-aversive - 3.1.1,
                                        3.1.5, 3.2, 3.4.1
-ga, positive imperative -
  3.5.1, 3.5.4
                                      -nga, 'there' - 3.4.3
-gani (W), continuative -
                                      -ngu, ergative-instrumental -
3.5.1, 3.5.3, 3.5.5
-gi, perfect - 3.5.1, 3.5.4
                                        3.1.1, 3.1.5, 3.4.2, 4.2, 4.6.3,
-giri, 'with' - 3.1.3
                                      -nu, genitive - 3.1.1, 3.4.2, 4.6.1
-gu, dative-allative - 3.1.1,
  3.2, 3.3, 3.4.1-3, 4.3
                                      -u, see -nu genitive
-gu, purposive - 3.5.1, 3.5.4, 4.3
                                      -y, unmarked aspect - 3.5.1, 3.5.4
-i, see -bi inchoative
                                      -ya, positive imperative - 3.5.1,
-in, see -nin ~ -n ablative
                                        3.5.3, 3.5.4
-l-, conjugation marker -
                                      The following affixes have occurred
  3.5.2, 5.1.1, 5.3
                                      in data gathered, but it has not
-la, aversive - 3.1.5, 5.4
                                      proved possible to check them out:
-lagu, purposive - 3.5.1, 3.5.4,
                                      -lga - 3.5.5
                                      -yandi - 3.5.5
  4.3, 5.3
-lani (B), continuative -
                                      -yara - 3.1.3
```

# ACKNOWLEDGEMENTS

My major debt is of course to the remaining speakers of of Wargamay and Biyay who shared their language with me - John Tooth, Lambert Cocky (or Atkinson), Nora Boyd, Alf Palmer and Arthur Wild. Whatever I have been able to salvage at this late stage is due entirely to their intelli-

gence, patience, and wish to see the language recorded for posterity.

Field research involves a fair amount of detective work and depends on good leads. It is thus appropriate to thank the late Chloe Grant for suggesting Alf Palmer as informant; Peter Sutton for suggesting John Tooth; John Tooth for suggesting Lambert Cocky; George Watson for mentioning Arthur Wild; and all of Chloe Grant, John Tooth and Lambert Cocky for urging me to seek out and work with Nora Boyd.

Financial support came from the Australian Research Grants Committee and, in the earlier stages, from the Australian Institute of Aboriginal Studies.

I am grateful to N.B.Tindale, Tony Beale, Tasaku Tsunoda, Peter Sutton and La Mont West Jr for making available material that they had recorded on Wargamay. Barry Blake and Sue Kesteven made valuable comments on an earlier draft. Sheldon Harrison provided useful ideas concerning the hypothesis in Chapter 5. Karl Rensch listened to the tapes and helped me make phonetic decisions concerning vowel length and stress. Alison Dixon sorted, arranged and copied the La Mont West Jr notes.