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# The Phonology and Morphology of Bachamal (Wogait)

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Unless otherwise acknowledged in the text, this thesis represents the original work of the author.

LYSBETH JULIE FORD

#### **PREFACE**

My interest in Bachamal stems from a request from Wajiginy women that their language be recorded before the last speakers died. What follows sketches the phonology and morphology of Bachamal. The syntax, sentence intonation and genetic relationship of Bachamal to other Australian languages are not covered in this sub-thesis, but are to be investigated in a further study which will compare Bachamal and Emmi to establish the relationship of each language to each other, and to other neighbouring languages.

#### ACKNOWLEDGEMENTS

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#### ABBREVIATIONS

A agent, transitive subject

ABS absolutive case-suffix

ADM admonitory modal suffix

ag 'again' clitic particle

ALL allative case-suffix

ano 'another' clitic particle

at all 'at all' clitic particle

aud audible

ASP aspectual marker

AUX auxiliary verb

C consonant

CAU causal case-suffix

CAUS causative verb

CM conjugation marker

COM comitative case-suffix

D dative argument

DAT dative case-suffix

De deictic

du dual

edveg edible vegetable

EMP 'empty' derivational suffix

ERG ergative case-suffix

ever 'ever' clitic particle

ex exclusive

f feminine

茶花色沙

Foc focal clitic particle

FUL 'full of' derivational suffix

FUT future tense

GEN possessive case-suffix

gp group

I irregular verb

IMP imperative

IMPL implicative argument

inc inclusive

INS instrumental case-suffix

m masculine

N nasal

ncm noun-class marker

Neg negative particle

nev 'never' clitic particle

NF non-future tense

NI noun incorporation

now 'now' clitic particle

NP noun phrase

O transitive object

obl 'obligated' clitic particle

only 'only' clitic particle

P free pronoun

PERF perfective aspectual marker

pl plural

PLAC place derivational suffix

prnpx pronominal prefix

px prefix

re 'really' clitic particle

REF/REC reflexive/reciprocal derivational suffix

REFL reflexive pronoun

S intransitive subject

sam 'same' clitic particle

SEMB semblative case-suffix

sg singular

tang tangible

then 'then' clitic particle

tr trial

V vowel

vis visible

first person

2 second person

3 third person

\$ syllable boundary

X variable element, may be null

\*Y Y is ungrammatical

+ or - morpheme boundary

# word boundary

[ ] phonetic transcription

// phonemic transcription

{ } canonical form of morpheme

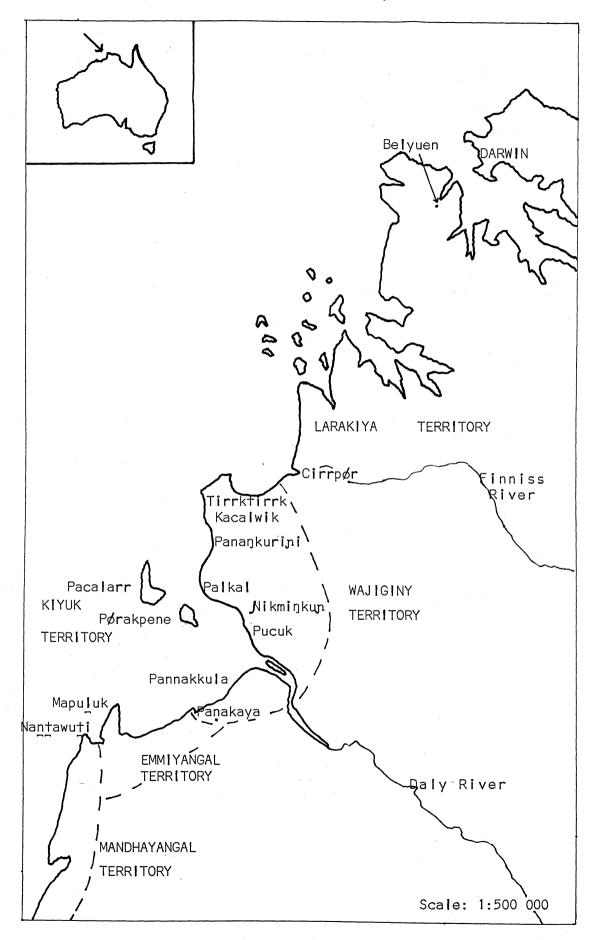
#### 1. THE LANGUAGE AND ITS SPEAKERS.

1.1 Name of language. Bachamal [baccamal] is an Australian language, with about a dozen fluent speakers, most of whom live at Belyuen on the Cox Peninsula, west of Darwin. The oldest fluent female speakers live in Darwin; one fluent male speaker lives at Daly River Mission. All speakers contacted in the course of fieldwork were born into the Wajiginy [wajiyiy] tribe or reared by Wajiginy affines. Fluent Bachamal speakers call their mal 'language' Bachamal and reserve Wajiginy for the name of the tribe whose mal Bachamal is. A minority of semi-speakers use Wajiginy to describe tribe and language. Bachamal and Wajiginy are the spellings preferred by fluent speakers.

The Wajiginy are a saltwater people who describe themselves as [wayac] 'beach-dwellers' from the Bachamal word wakac, [wayac] 'beach'. The earliest written records refer to them as 'Wangites' (Herbert 1873:50), 'Waggites' (Wildey 1876:115), 'Wogites' (McKillop 1893:254), 'Waggait' (Parkhouse 1895:34), 'Wogait' (Basedow 1907:2), or 'Worgait' (Spencer 1912:14). Most subsequent records refer to the Wajiginy and their mal as 'Wogait'; the first Bachamal word-list is titled 'Wogait' (Basedow 1907:60).

All the early anglicisations of wakac miss the final laminal stop and intervocalic fricative of the original.

Map 1: Wajiginy traditional territory



In Bachamal, word-final stops are always voiceless and, intervocalically, peripheral stops become voiced fricatives.

1.2 <u>Traditional territory</u>. According to Bachamal speakers, Wajiginy territory was originally located on the shores of Anson Bay. Agnes Lippo and Kitty Moffat confirm that [bannakkula] and [bäṇaɣaya], south of the mouth of the Daly River, and [dɪrrktɪrrk], [nikmɪnguyn], [balɣal], [kajalvɪk], [banaŋguriyni], and [bujuk], opposite the Peron Islands, are Wajiginy camp-sites. Map 1 shows the extent of Wajiginy traditional territory.

In the earliest written reference to the Wajiginy, dated 1874, surveyors exploring the hinterland of Darwin for the Overland Telegraph route note that 'the Waggites are located to the westward, about Anson's Bay' (Wildey 1876: 115). The 'Wangites' Reserve, proclaimed in 1892, granted the Wajiginy title to 388 sq. miles between the Finnis and Daly Rivers (South Australian Government Gazette, 1892, cited in NLC 1979:140). Father McKillop of the Uniya Mission knew the 'Wogites' as 'a powerful tribe' with land on the left bank of the Daly (McKillop 1893:254); Parkhouse (1895:634) described them as 'westerly neighbours' of the Larakiya, beyond Shoal Bay. In 1894, Knut Dahl explored the Daly with a 'Wogait' guide. Dahl recalls the 'Wogait' as 'a tribe entirely different from the Valli Valli (Daly)

people' and 'Wogait' territory as 'a very extensive coast area, reaching from the mouth of the Daly almost to Port Darwin' (Dahl 1927:15,128). Basedow (1907:2) locates the 'Wogait' to the west of the 'Larrekiya', from the Finniss River to Cape Ford. Stanner (1933:387) refers to them as 'a tribe which once lived in the Anson Bay district'. Tindale (1974:238) fixes the co-ordinates of 'Wogait' land as 130° 15'E x 13°10'S.

Intermarriage with neighbouring tribes, the Emmiyanal to the south, Kiyuk to the west, Warray inland to the east (Dahl 1927:129) and Larakiya to the north (Basedow 1907:4) brought the Wajiginy intimate knowledge of territory beyond their own. Basedow (1907:3) records them as speaking 'Larrekiya' and 'Berringin'. That 'Berringin' here refers to Emmi is clear from the accompanying 'Berringin' wordlist, in which 23 out of 26 items are Emmi forms (Basedow 1907:60). In 1906, when Government Resident Herbert toured the coast between the Daly Smelter and Cape Ford to find a landing-site with fresh water, he took as guides 'Charlie and Cocky, two Wargite blacks from east of the Daly, who said they knew a marked tree of Mr Dashwood's near a well in the Amie (Emmi) country' (Herbert 1907:10).

To the west, the Wajiginy inherited custodianship of the Peron Islands, [bajalarr] and [børakpene], from the last of the Kiyuk (Ivory and Tapsell 1978:9; Kitty Moffat and Margaret Rivers pers. com. 1989). From the Larakiya, whose country stretched from Darwin south to [cirr $\beta$ ør], the mouth of the Finniss, the Wajiginy gained the right to hunt on Quail, Grose and Pelican Islands (Beckett 1916:6; Margaret Rivers in NLC 1979:197).

Larakiya land is the subject of a long-running land claim under the Land Rights Act. In the case, which is currently before the courts, Wajiginy elders are expert witnesses for Larakiya country because they have inherited custodianship of Larakiya sacred sites on the Cox Peninsula (Johnny Biyanamu pers. com. 1989).

1.3 The Wajiginy and Darwin. In 1893, twenty-four years after the founding of Darwin, a lighthouse was built at Point Charles, thirty kilometres from Darwin by sea, on the western tip of Darwin Harbour. The Wajiginy are linked with Point Charles by Basedow (1907:53) and Spencer (1913:45). Wajiginy men were employed to fetch firewood and carry mail for the lighthouse (Australia 1912 in NLC 1979:90). They grew crops on the land next to the lighthouse for the first lighthouse-keeper H.W.Christie, who wrote in a southern newspaper that he had been 'formally adopted a member of the Wogite tribe' (Christie 1906, quoted in NLC 1979:116). In the 1930's, Wajiginy were employed on

Mitchelmore's peanut farm near Point Charles (Johnny Biyanamu, Maggie Timber pers. com. 1989).

From 1911, the Wajiginy are recorded as labourers and domestic servants in Darwin (Kelly and Beckett 1911, in NLC 1979:90). They lived at Kahlin Compound on Cullen Beach until 1938, when the compound was demolished and its inmates moved a few kilometres to Bagot Compound. Early in World War II, Bagot was comandeered by the Australian Army and the Wajiginy were moved again, to Delissaville on the Cox Peninsula.

In 1936, A.P.Elkin had proposed a reserve for them 'on the Peninsula opposite Fanny Bay...where there is plenty of Cypress Pine, native food on land and sea...and buffalo' (quoted in NLC 1979:121). Elkin's proposal was rejected in the following terms:

with regard to the proposed site on the Peninsula opposite Fanny Bay (presumably either Talc Head or West Point)...both these points are of strategic importance...the proximity of an Aboriginal settlement might prove distasteful. (Cook 1937, quoted in NLC 1979:121).

Instead, Delissaville, twenty kilometres inland, was chosen, because it was 'reasonably close to Darwin but also...reasonably difficult of access to Darwin'

(Welfare Division, NT Administration 1972, quoted in NLC 1979:123).

In 1942, the Japanese bombed Darwin and the Australian Army occupied Cox Peninsula. Most Wajiginy were trucked 125 kilometres south to an army camp at Adelaide River. Wajiginy men and all 'full-blood' women and children were then sent 200 kilometres further south to a 'control camp' at Katherine, where they spent the rest of the war. 'Half-caste' Wajiginy were sent to Adelaide (NLC 1979: 101-102).

In 1946, the Wajiginy returned to Delissaville, but were denied access to hunting-grounds on Quail Island, which the RAAF used as a bombing-site from 1957 until 1979 (advice from RAAF, 17/6/90). In 1971, Radio Australia took over Point Charles and restricted access to the adjoining coast (NLC 1979:146-147). In 1977, Delissaville was gazetted a reserve and renamed Belyuen. Since then, the Wajiginy have enjoyed security of tenure at Belyuen, but are still denied access to traditional hunting-grounds.

1.4 <u>Speakers</u>. The number of Wajiginy fluent in Bachamal is small. I have located thirteen speakers aged from 48-82. Most speakers live at Belyuen, but spend time in Darwin, at Bagot or One Mile Dam; one speaker spends the

wet season in Darwin and the dry at Balgal. The immediate family of each fluent speaker includes relatives aged 47 or younger with passive competence in Bachamal, but no children learn Bachamal as their mother-tongue.

Speakers say this has been so since their wartime years in the 'control camp' where they were a minority among speakers of mutually-unintelligible Australian languages. Camp inmates used Aboriginal English (a non-standard variety of English with Aboriginal language influences) as a <a href="lingua franca">lingua franca</a> and Wajiginy children born in the camp learnt Aboriginal English as their mother-tongue. When the Wajiginy returned to Delissaville in 1946, adults and children communicated through Aboriginal English. As a result, all speakers of Bachamal are bilingual in Bachamal and Aboriginal English and all Wajiginy born since 1942 speak Aboriginal English as their mother-tongue.

At Belyuen, fluent speakers of Bachamal are outnumbered by speakers of Emmi and Manda, classified by Tryon (1974:174) as closely-related dialects of Marranungu. Speakers of all three say that Emmi and Manda are mutually unintelligible with Bachamal. Emmi and Manda speakers are bilingual in their mother-tongue and Aboriginal English. Five older speakers of both Emmi and Manda are also fluent in Bachamal. All fluent Bachamal speakers are fluent in Emmi. When addressed in Emmi, they respond in the same code, but may

then switch to Bachamal or to Aboriginal English. When at home, they speak Bachamal or Aboriginal English to immediate family.

Two fluent Bachamal speakers speak some Larakiya; the only surviving mother-tongue Larakiya speaker understands

Bachamal but cannot speak it. Bachamal speakers regard

Larakiya and Bachamal as mutually unintelligible.

Agnes Lippo's step-father, Daly Young, was one of the last speakers of Kiyuk. Agnes remembers Kiyuk as mutually unintelligible with Bachamal. There is no-one left with even passive competence in Kiyuk.

- 1.5 <u>Previous work on the language</u>. Very little has been published on Bachamal (Wogait). Relevant sources are summarised and discussed as follows:
- (i) Basedow (1907:1-62) gives a 'Wogait' word list, (60); all 27 items are Bachamal words. Basedow cites a total of 40 'Wogait' words, 39 of which are Bachamal lexical items.
- (ii) Spencer (1912:12-53) lists 'Worgait' kinship terms.

  All except one (Larakiya) item are still used by Bachamal speakers.
- (iii) Spencer (1913:45) notes that 'Worgait' and 'Larakia'

are mutually unintelligible, commenting:

So far as the words are concerned, there is just as much difference between those in the language of two tribes such as the Larakia at Darwin and the Worgait at Point Charles, only a few miles away across the harbour, as there is between the French and German languages.

Spencer cites no data in support of this claim, but a comparison of Capell's Larakiya data (Capell 1968:55-106) with my Bachamal data revealed minimal lexical correspondences between the two languages. Larakiya and Bachamal share 1% cognates in R.M.W. Dixon's unpublished 91 item comparative word-list and 1.5% cognates in the same author's unpublished 400 item comparative word-list. The cognate items comprised the following six monosyllabic verb stems:

Laral	kiya			Bacha	amal
· · · · · · · · · · · · · · · · · · ·		*na	'see'		
		*ci	'eat'		
		*pø	'hit'		
		mi	'sit'		
*1ø	'cry'			*rø	'cry'
*mal	'make	7 -		wa	'make'

Starred items are cognate with Dixon's putative Proto-Australian verb roots (Dixon 1980:402-407).

- (iv) Spencer (1914:157-162; 482; 496) cites terms used in 'Worgait' initiation ceremonies, lists 'Worgait' numerals and marks word-accent. Bachamal speakers confirm the accuracy of his data.
- (v) Capell (1940) notes the voiced bilabial fricative and mid-front rounded vowel in 'Worgait'(249); exemplifies masculine/feminine word classes and a possessive suffix in 'Wogadj' (407-8); cites verb forms marked for tense and cross-referenced for subject and object by pronominal prefixes (409) and provides a 19 item word-list (411).
- (vi) Capell (1956:43) lists 'Wogadj' noun-class prefixes and discusses plural concord-marking on verbs.
- (vii) Capell (1963) terms 'Wogadj' 'almost extinct'.
- (viii) Capell (1979:247) claims that 'Wadjiginj' verb morphology has no parallel in other Daly River languages, but close parallels in Northern Kimberley and east Arnhem-land languages.
- (ix) Tryon (1968:21-46) lists 200 'Wadyiginy' lexical items in a comparative word-list of Daly family languages. These items are all Bachamal words.
- (x) Tryon (1970:218-222) sketches noun-classes and concord

in 'Wadyiginy' and other Daly languages.

- (xi) Tryon (1974:187-228) proposes 'Brinken-Wogaity' as one of the three 'groups' of the Daly language family.

  His 'Wogaity''sub-group' of 'Brinken-Wogaity' consists of a single 'language', 'Pungupungu' which he claims has three dialects; 'Pungupungu', 'Wadyiginy' and 'Batyamal'. Tryon assigns identical phonemes to 'Pungupungu' and 'Wadyiginy' (188; 207), but does not specify 'Batyamal' phonemes. He claims:
- (a) 'Batyamal shares 90% cognates with Wadyiginy and has an almost identical grammatical structure' (207).

  'Wadyiginy and Batyamal may be taken as synonymous terms' (228).
- (b) 'Pungupungu' shares 79% cognates with 'Wadyiginy' but 'Wadyiginy' 'shows morphological innovations that would certainly impede communication between Pungupungu and Wadyiginy speakers' (207).

Fluent Bachamal speakers refer to Puŋupuŋu as kanjerra mal, 'bush-talk', and regard it as a different but related language. This view is confirmed by a comparison of Tryon's Puŋupuŋu data with my Bachamal data, which yielded the following results:

(a) <u>lexical evidence</u>. Punupunu and Bachamal share 60% cognates on R.M.W Dixon's unpublished 91 item word-list, and 45% cognates, including 20% verb cognates, on his

- 400 item word-list.
- (b) morphological evidence. Punupunu and Bachamal share a common core of inflectional and derivational affixes, but Punupunu has less nominal and verbal affixes. Punupunu lacks the portmanteau pronominal prefixes which are obligatory on Bachamal transitive verbs.
- (xii) Tryon (1976:673-691), surveying auxiliary verbs in Daly Family languages, claims:
- (a) intransitive verbs in 'Wadyiginy' and 'Pungupungu' form identical verb classes (683),
- (b) 'Each verb stem is obligatorily accompanied by an auxiliary unit appropriate to the particular verb class' indicating 'actor, tense and general action type' (683-4),
- (c) 'Wadyiginy' transitive verbs lack auxiliary units (685) and are structured as follows:
- 'VPhr(Trans): +Subject/Object+Pred.(VS+tense)' (685),
- (d) 'the pronoun subject and object are fused into a... portmanteau morpheme, a feature not found elsewhere within the Daly Family' (685).

Comparison of Tryon's Punupunu data with the Bachamal data presented in 3.4 of this thesis shows that

(a) 70% of Punupunu intransitive verbs consist of a 'free form verb stem' (Tryon:1974:193) compounded with an inflected intransitive auxiliary verb. In Bachamal,

compound verbs form a minority of intransitive verbs.

- (b) Any Bachamal verb may be followed by an inflected intransitive auxiliary verb specifying the bodily orientation of the co-referential subject.
- (c) 50% of Bachamal transitive verbs are compound verbs,
  formed from a type B verb (Tryon's 'free form verb-stem')
  + an inflected transitive auxiliary verb.

(xiii) Tryon (n.d.) is a 115 page draft grammar of 'Pungupungu' written in a tagmemic framework. Appended are a 555 item word-list and five texts with English translations.

(xiv) Tryon (1980:277-87) compares 'Wadyiginy' and 'Pungupungu' morphology and concludes that 'the dramatically different manner in which pronominal objects are marked with transitive verbs' militates against classifying them as dialects of the same language (285). He offers the following explanation, while admitting that the dearth of Pungupungu speakers renders it untestable:

Tradition has it that Pungupungu...was once used as a <u>lingua franca</u> within the Daly area. Possibly it too once had the same transitive/intransitive distinction described for Wadyiginy, the distinction being eroded by the exigencies of being a lingua franca in an area in which no other language

...belonging to the Daly Family observes the same type of distinction (285-6).

It appears from the Bachamal data now available that Punununu and Bachamal are related but morphologically divergent languages.

(xv) Lippo (1987) is a Bachamal text, transcribed by Evans.

(xvi) Evans (1987a) is a draft phonemic analysis of 'Emi' and 'Watyiginy/Batjamal'.

(xvii) Evans (1987b) is an unpublished paper comparing the morphology of 'Wadjiginy' with 'Pungu-pungu' and 'Kungarrakany'. Evans concludes that 'Wadjiginy' and 'Kungarrakany' are 'Gunwinnguan', retaining archaic forms lost in many 'Gunwinnguan' languages, but that 'Pungu-pungu' has undergone extreme 'Dalyisation'.

(xviii) Evans (1989) is a revised draft of Evans (1987b).

The data supporting Evans' claims for 'Watjikiny/Batjamal' are superseded by that provided in my thesis, which takes into account all previous work on Bachamal. There is no evidence to suggest that Bachamal and Wajiginy are separate dialects. Comparative research outside the scope of my

study is needed to establish accurate sub-grouping for Punupunu and Bachamal. Only then will we be able to test Evans' claim that Bachamal is Gunwinguan but Punupunu 'Dalyised'.

#### 2 BACHAMAL PHONOLOGY

- 2.1 <u>Introduction</u>. My analysis represents the speech of two women recommended by other Wajiginy as the most knowledgeable speakers of Bachamal. They are:

  (i) Agnes Lippo, aged 60. Her father was Emmiyanal,
  her mother Wajiginy. Most of her life has been spent at Belyuen, married to a Wajiginy man, now deceased.

  Agnes is trilingual in Bachamal, Emmi and Aboriginal English, but regards Bachamal as her mother-tongue. She has passive competence in Larakiya.
- (ii) Josephine Rankin, who died in December 1989, aged 66. Her Larakiya mother, Yiccin, died when she was a small baby and Lew Fatt, her Chinese-MalakMalak father abandoned her; she was brought up by Akuk, the last Wajiginy [dawarraβørak] 'clever-man', who was husband to her mother's mother, Kiril, and uncle to Agnes Lippo. Josephine neither spoke nor understood Larakiya. She was trilingual in Bachamal, Emmi and Aboriginal English, but regarded Bachamal as her mother-tongue. She grew up on the Cox Peninsula coast, but spent her adult life at Bagot Reserve, married to Nipper Rankin, a Kiyuk man, now deceased. Neither Josephine nor her husband could speak or understand Kiyuk; they communicated in Bachamal, Emmi or Aboriginal English.

The pace of the speech analysed is approximately that of normal Bachamal conversation. This is considerably faster than the speed at which citation forms were uttered for the benefit of the learner.

2.2 <u>Summary of analysis</u>. Bachamal has 22 phonemes: five vowel phonemes and seventeen consonant phonemes. Vowellength is not phonemic. Stops and nasals correspond to five places of articulation. There are two apical and one laminal series of stops, nasals and laterals, plus two peripheral series of stops and nasals. The laminal lateral approximant is interdental. There are four central approximants: apico-alveolar trill; apico-post-alveolar (retroflex) approximant; lamino-palatal approximant and labial-velar approximant.

Bachamal stops are underlyingly voiceless. All stops are voiced after nasals. Apical and labial stops are voiced word-initially, laminal and velar stops are not. Intervocalically, apical and laminal stops are voiced; peripheral stops become voiced fricatives. After liquids, laminal stops are voiced; after a non-nasal sonorant, a peripheral stop lenites to a voiced fricative, unless it is followed by another stop, when voicing and lenition are blocked. All stop-clusters are voiceless.

Bachamal syllable-structure is such that sequences of identical stops, nasals and laterals may occur across syllable-boundaries. The canonical syllable-structure is:  $(C<_1(C)>_1)\ V\ (<_2(C)>_2C)$ , where  $<_1>_1$  precludes  $<_2>_2$  and vice versa. Syllable types are listed in 2.7. The most frequent syllable types are  $C_1V$  and  $C_1VC_2$ .  $C_1$  of  $C_1V$  may be any consonant except a retroflex lateral.  $C_1$  of  $C_1VC_2$  may be any consonant except a retroflex nasal.  $C_2$  of  $C_1VC_2$  may be any consonant except a labial-velar approximant. If a consonant-final syllable precedes a consonant-initial syllable, a homorganic or heterorganic consonant cluster results across a syllable-boundary. The corpus of 1061 words contains 920 polysyllabic words, 72 geminate stops, 11 geminate nasals and 7 geminate laterals.

#### 2.3 Consonant phonemes specified.

	APICAL		LAMIN	AL	PERIP	HERAL
=	Alveolar	Retro-	Inter-	<u>Palatal</u>	<u>Velar</u>	<u>Bilabial</u>
		flex	dental			
stop	t	ţ		C	k	p
nasal	n	ņ		ņ	ŋ	m
liquid:						
latera	1 1	ļ	1			
rhotic	rr	r '				
semi-vo	wel			У		w

### 2.3.1 Articulatory description of consonant phonemes.

```
(a) stops
```

- (1) /t/ voiceless apico-alveolar
- (2) /t/ voiceless apico-postalveolar (retroflex)
- (3) /c/ voiceless lamino-palatal
- (4) /k/ voiceless dorso-velar
- (5) /p/ voiceless bilabial

### All stops contrast initially and medially:

{tilk}	[d:lk]	wet	
{tulk}	[dülk]	whale; dreaming	
{cilk-ŋa-me}	[cilknam $\epsilon$ ]	I ache/d	
{kullak}	[kullak]	catfish sp.	
{pilk-ye-pø}	[bɪlkyεβø]	Slap him!	
{mitan}	[mɪdaŋ]	forehead	
{natal}	[ŋädal]	tongue	
{nace}	[ŋajε]	1sg free pronoun	
{naparrkkalaman}	[ŋaβarrkkalama <sup>y</sup> ɲ]	old woman	

## Word-final contrast between apical stops is neutralised:

{tit}	[dɪt]	inedible green ant
{tec}	[dɛc]	nit
{kak-}	[kak-]	leave
{pap}	[bap]	up

### 2.3.2 Consonant allophony

(1) phoneme /t/

2 allophones: [t] voiceless apico-alveolar stop

[d] voiced apico-alveolar stop

Environments:

(\* means not occurring)

e.g.

 $\{tit\}$  inedible green ant

{mitan} forehead

{mattimatti} [mattimatti] slowly

{wutiwuti} [wudIwudi] crooked

{wørrakkata} [vørrakkada] bush

{parrkkatta+nak} [barrkkattanak] two-edged

{natta} [natta] house

{puntirrik} [bundirrik] octopus

{yarr-turra} [yatturra] we, excluding you,

1plexA.3sgmO+cook cook/ed it (by P 1)

- (2) phoneme /t/
- 2 allophones: [t] voiceless retroflex stop
  - [d] voiced retroflex stop

#### Environments:

Variation between speakers occurs in the lexical item {møṭa} 'star' and its compounds. All but two fluent speakers say [møṣa] 'star', [møṣamɛjɛm] 'egg', [møṣarak] 'sky' with a

retroflex fricative. For them, the retroflex fricative is an allophone of the retroflex stop after /ø/. The two oldest speakers pronounce the same items as [møḍa], [møḍamɛjɛm], [møḍarak], with an intervocalic voiced retroflex stop, as did Akuk on a tape-recording made thirty years ago (AIAS 1959: tape 320/3). Eighty years ago, Basedow transcribed {møṭa} as 'murre' with an intervocalic trill (Basedow 1907:62).

- (3) phoneme /c/
- 2 allophones: [c] voiceless lamino-palatal stop
  - [j] voiced lamino-palatal stop

Environments:

e.g.		
{cettak}	[cettak]	rock cod
{nic}	[nic]	name
{mecak}	[mɛjak]	neck
{naraca}	[ŋaraja]	female ego's daughter
{pwuccaka}	[bwuccaya]	strange
{paccakapa}	[baccaɣaβa]	spear

{cica} [cija] 3sqm deictic [ci<sup>y</sup>ɲja] 3sqf deictic {cinca} {mamcal} [mamjal] flower {merrcel} [merrjel] great egret {wilccirri} [vilccirri] blue-spotted stingray {wulcca} [wolcca] white plum {nickurrum} [nickurrum] initiated girl [bickalamba] {pickalampa} bush carrot sp. {kacpak} [kacpak] scorpion [vi<sup>y</sup>njene] {win+cene} using a stick {pik+cene} [bikcene] using a rope {nørrec+cene} [nyrreccene] using pandanus {wara+cene} [warajene] using paperbark

Nominals are marked instrumental with the suffix {-cene}.

After a nasal or liquid and between vowels, the suffixinitial laminal stop is voiced; elsewhere, it is voiceless.

(4) phoneme /k/

3 allophones: [k] voiceless velar stop

[g] voiced velar stop

[ $\gamma$ ] voiced velar fricative

## Environments:

e.g. {kuk} [kuk] excrement; cloud {yinmek} [yi<sup>y</sup>nmek] tomorrow father's father; totem {kuka} [kuYa] mother's brother {kakka} [kakka] {mørrakara} [mørrayara] yesterday [kamanga] {kamanka} nothing {mal+kamanka} [malyamanga] mute {wunka} [wunga] water-snake {perrkata} [berryada] raw {parrkka} [barrkka] sharp [walkan] [walyan] hairy chiton; spear wild blackfella {walkkan} [walkkan] {mecakkarr} [mejakkarr] songman {kayik+karran} [kayıkkarran] sun + ergative {nace+karran} [najeyarran] 1sg pronoun + ergative {nanan+karran} [nanangarran] man + ergative.

Nominals are marked ergative with the case-suffix {-karran}.

After nasals the suffix-initial velar stop is voiced;

intervocalically and after a liquid, it becomes a voiced

fricative; elsewhere it is voiceless.

- (5) phoneme /p/
- 3 allophones: [p] voiceless bilabial stop
  - [b] voiced bilabial stop
  - [β] voiced bilabial fricative

## Environments:

e.g.

{pøţup}	[þġḍup]	cigarette
{picpic}	[bicpic]	bird sp.
{pølpøl}	[bølßøl]	coucal (bird sp.)
{pulppul}	[bulppul]	wild passion-fruit
{mipec}	[mIβεc]	louse
{mepperre}	[mepperre]	liver
{merreppen}	[merreppen]	cabbage-palm
{panpapanpa}	[banbaβanba]	flat
{pappa}	[bappa]	father
{pampac}	[bambac]	baby
{munpem}	[muynbem]	basket
{karrpek}	[karrßek]	prickly gum tree
{malpak}	[malβak]	praying-mantis
{kalppa}	[kalppa}	tail
{camatpa}	[camatpa]	ashes for chewing
{kutpøpørør}	[kutpøßørør]	worried

{parrwilikpa} [barrvilikpa] ugly
{palkpalkpi} [balkpalkpi] convolvulus
{nanan+pøttun} [nananbøttun] belonging to the man
{nace+pøttun} [najepøttun] belonging to me
{pappa+lak+pøttun} [bappalakpøttun] my father's.

Nominals are marked for alienable possession with the Genitive allomorph /-pøttuŋ/. Ego's close non-affinal kin are marked as inalienable with the Genitive allomorph /-palak/. A kin-term eligible for marking with /-palak/ may be additionally marked with /-pøttuŋ/ to show alienable possesssion, e.g. the last item in this list. The suffix initial syllable of /-palak/ is elided with the identical stem-final syllable of {pappa} by haplology. Both Genitive allomorphs show the following allophony across morpheme-boundaries:

After a nasal, the suffix-initial bilabial stop is voiced. Intervocalically and after a liquid, it becomes a voiced fricative; elsewhere, it is voiceless.

- (b) nasals
- (1) /n/ apico-alveolar nasal
- (2) /n/ apico-postalveolar (retroflex) nasal
- (3) /n/ lamino-palatal nasal
- (4) /n/ dorso-velar nasal
- (5) /m/ bilabial nasal

Nasals contrast medially and finally:

{penterr} [benderr] sweet
{pantala} [bandala] stringybark

{mancewalac}	[ma <sup>y</sup> njɛwalac]	catfish sp.
{pøŋkanak}	[bøŋganak]	sugar-cane
{pømpaccak}	[bømbaccak]	white apple
{kaṭaman}	[kädaman]	rotten
{kunkun}	[kyngyn]	curlew
{kankan}	[käṇgäṇ]	eagle sp.
{naparrkkalaman}	[ŋaβarrkkalama <sup>y</sup> ɲ]	old woman
{man}	[maŋ]	rock; money
{nem}	[nem]	beeswax.

Initial contrast between apical nasals is neutralised:

{nic}	[nic]	name
{pik}	[nik]	night-time
{nuk}	[ŋʊk]	pandanus nut
{mik}	[mik]	sore.

Apico-alveolar and dorso-velar nasals contrast medially in the following minimal pair:

{mankarra} [mangarra] wattle sp. {mankarra} [mangarra] phlegm.

## (c) liquids

- (1) /rr/ apico-alveolar trill
- (2) /r/ apico-postalveolar (retroflex) approximant
  Variation between speakers occurs in one lexical item.
  Older speakers pronounce the item {maranmaran} 'waterweed'
  with an intervocalic voiceless retroflex approximant. For
  them, but not for speakers under 50, there is a sub-minimal
  contrast between the following items:

{para}	[bära]	arm, creek
{maranmaran}	[mäɹanmäɹan]	waterweed.

The rhotics are in partial complementary distribution.

Word-initially, only the retroflex continuant occurs; in

medial clusters, only the trill occurs. Both rhotics

contrast intervocalically, finally and as the first member

of a final consonant cluster:

{murrunmurrun}	[murrunmurrun]	kidney
{maranmaran}	[märanmäran]	waterweed
{wørrak}	 [vørrak]	grass
{wurak}	[würak]	near
{wirk-ka-me}	[wirkkame]	he shrieks/shrieked
{wirrkwirrk}	[wirrkwirrk]	shark sp.
{piccirr}	[biccirr]	mudskipper (fish sp.)
{cirrir}	[cirrïr]	bird sp.

Intervocalic contrast occurs between apico-alveolar stop and retroflex approximant, e.g.

{wutiwuti} [wudiwudi] crooked
{wuriwuri} '[würiwüri] red ochre,
between retroflex stop and continuant, e.g.

{wutak} [wüdak] saliva
{wurak} [würak] near
{paṭak} [baḍak] cheeky

{paṭak}[baḍak]cheeky{para}[bara]arm, creek{kaljeṭec}[kaljëḍɛc]Milky Way{karrcera}[karrjëra]water-lily,

and between retroflex stop and apico-alveolar trill, e.g.

{matawuk} [mädawuk] crab sp.
{marrawuk} [marrawuk] cool wind.

- (3) /1/ apico-alveolar lateral approximant
- (4) /l/ apico-postalveolar (retroflex) lateral approximant
- (5)  $\frac{1}{2}$  lamino-interdental lateral approximant

e.g.

{lewirr}	[leuirr]	crab sp.
{møl}	[ møl ]	rice, maggot
{calkma}	[calkma]	bad
{kalalk}	[kalalk]	black
{kaljetec}	[kaljedec]	Milky Way

Laterals contrast medially, finally and as the first member of a final consonant cluster:

{millik}	[millik]	place name
{kulløk}	[kijļļøk]	short
{kulluk}	[kulluk]	blind
{tilk}	[dilk]	wet
{tulk}	[düjk]	whale; dreaming
{mulk}	[mulk]	house-fly
{kalkalk}	[kalkalk]	cliff
{yinkulk+ka+yi+na}	[yiŋgʊˈlkkayiŋa]	it tastes/tasted sweet
{kalalk}	[kalalk]	black
{kel}	[kel]	path
{tul}	[dʊi]	angry, upset
{cal}	[call]	dew.

Apico-alveolar and laminal laterals contrast initially, medially, intervocalically and finally, e.g.

{licpurrk}	[licpurrk]	axe
{lewirr}	[leurrr]	crab sp.
{pamalan}	[bamalaŋ]	big
{pemelak}	[bemelak]	stone knife
{celwe}	[cɛlʊɛ]	death adder
{kalwak}	[kalwak]	antbed
{kel}	[kel]	path
{kalkal}	[kalkal]	lungs, leaf, tea.

Apico-alveolar liquids contrast intervocalically, medially, finally, and as the first member of a final consonant cluster, e.g.

{walarra}	[walarra]	hermit crab sp.
{walala}	[walala]	fish-wire tree
{nurrkkul}	[ŋurrkkul]	stick insect
{palkal}	[balyal]	place name
{ŋalimpurrk}	[nalimpurrk]	magpie goose
{matpulk}	[matpulk]	woman's name
{mamurrn}	[mamurrn]	invitation to ceremony
{melnmeln}	[melnmeln]	cheeky yam
{cimmerr}	[cimmerr]	longbum (shell sp.)
{cemmel}	[cemmel]	Carpentaria acuminata
{mecakkarr}	[mɛjakkarr]	songman
{nurakal}	[ŋʊraɣal]	young man.

Apical and laminal liquids contrast intervocalically:

{-karraŋ}	[-karraŋ]	ergative suffix
{kalaŋ}	[kalan]	mother
{pipere}	[biggre]	ear
{pøpele}	[bøßɛl̞ɛ]	semen.

- (d) semi-vowels
- (1) /y/ lamino-palatal approximant

Palatal stop and approximant contrast initially, finally and intervocalically:

{cencak}	[c <sub>E</sub> <sup>y</sup> ɲjak]	milkwood tree *
{yencarrwa}	[yɛ <sup>y</sup> ɲjarrwa]	on one side
{carrkkupa}	[carrkkußa]	place name
{yerrk-ye-pø}	[yerrkyeßø]	Scrape it!
{mecak}	[mɛjak] 🔭 🐷	neck
{meyak}	[meyak]	Grewia retussifolia
{marruc}	[marruc]	mud-crab

{maruy}

[maruy]

shadow, conception-

dreaming.

The palatal approximant occurs word-finally only in this and the following items:

{walakaykay}

[walayayyay]

white shark

{pay}

[bay]

ant sp.

{paypay}

[baybay]

white.

The last item in this list is an exception to the rule by which peripheral stops fricativise intervocalically or after an approximant.

Only fluent speakers maintain an initial palatal approximant in the following items:

{yine-me}	[yine-me]	do what?
{yinmek}	[yi <sup>y</sup> ɲmɛk]	tomorrow
{yilec}	[yilɛc]	flame
{yila}	[yila]	heron
{yinarren}	[yi <sup>y</sup> ɲarrɛ <sup>y</sup> ɲ]	ringworm
{yinkarren}	[yiŋgarrɛ <sup>y</sup> ɲ]	turtle sp.
{yikac}	[yiyac]	stingray sp.
{yikwar}	[yikwär]	cockle.

(2) phoneme /w/

2 allophones: [v] voiced bilabial approximant

[w] voiced labial-velar approximant

e.g.

{willerr}
{wøtawel}

[villerr]

crocodile

[vødavel]

fat (noun)

{welerre} [velerre] spear, parcel
{watarran} [wadarrayn] witchetty grub
{wutak} [wödak] saliva.

{w} occurs word-finally only in the conjunction {aw} 'or',
which is borrowed from English.

The labial stop and labial approximant contrast wordinitially and intervocalically:

{pik} [bik] rope {wik} [vik] water {pørak} [börak] small {wurak} [würak] near [bära] {para} arm, creek {wara} [wära] paperbark [bɪβέrε] {pipere} ear [vivëre] {wiwere} termite.

In reduplicated forms, the velar stop and labial-velar approximant alternate, e.g.

The labial-velar approximant is never elided word-initially before a high back rounded vowel, e.g.

{wurak} [wurak] near
{wulurruk} [wulurruk] sweat.

The labial approximant is obligatory in the rare syllable-types  $C_1 C_2 V$  and  $C_1 C_2 V C_3$ . In type  $C_1 C_2 V$ ,  $C_1$  must be a

bilabial nasal,  $C_2$  the labial approximant, V a high vowel. In type  $C_1C_2VC_3$ ,  $C_1$  must be the bilabial stop,  $C_2$  the labial approximant,  $C_3$  a laminal or velar stop. V must be a high vowel. The sequences /pw/ and /mw/ contrast with /p/ and /m/ in the following minimal and sub-minimal pairs:

{pik} [bik] rope {wik} [vik] water {pwik} [buik] bone [buc] smell (noun) {puc} {pwuccaka} [bwuccaya] strange [mi<sup>y</sup>nan] lover, dove {minan} [moinak] scrub-turkey. {mwinak} It could therefore be suggested that /pw/ and /mw/ are distinct phonemes, but they occur only in these lexical items and their compounds, and other hypotheses must be considered:

- (i) /pw/ and /mw/ derive from /puw/ and /muw/.
  This must be rejected on two grounds:
- (a) the corpus contains no instances of /puw/and only one instance of /muw/: {muwininka} [mourninga] 'rock python'.
- (b) for a word-initial syllable which is also stem-initial to be elided is unlikely because this syllable carries word-accent. A phonological word is defined as one whose stem-initial syllable is accented, i.e. raised in pitch.
- (ii) These lexical items are loanwords from Punupunu.

  This argument rests on scanty and inconclusive evidence:
- (a) {pwik}, {pik} and {wik} occur in Punupunu (Tryon n.d.: 117, 129, 135), but Punupunu {mulnak} (Tryon n.d.:124) is

not cognate with Bachamal {mwinak}; no other relevant cognates are attested.

(b) if these items are loanwords, they may have been borrowed into Punupunu from Bachamal, or into both languages from another source. No cognates are attested in Larakiya or Emmi and until more data are available the question remains unresolved.

# 2.4 Vowel phonemes specified.

/i/ high front unrounded

/u/ high back rounded

/e/ mid front unrounded

/ø/ front rounded

/a/ low front unrounded

# Vowels contrast medially and finally:

{mirranuk} knee

{murruppul+man} white stone (quartz)

{merriki} bush carrot sp.

{mørrakara} yesterday

{marrapat} beard

{ka+mi} he sits/sat

{camu} longtom (fish sp.)

{currk-ka-me} it is/was charred

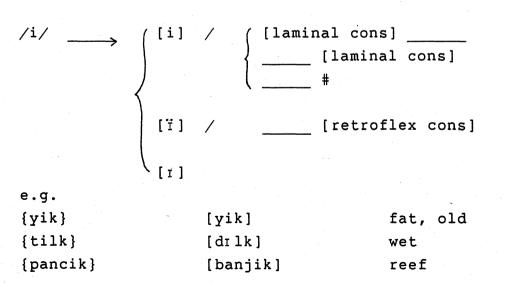
{cerrmø} catfish sp.

{nammama} deaf.

# 2.4.1 Articulatory description of vowel phonemes

# 

# 2.4.2 <u>Vowel allophony</u>



{nancic} [nancic] one {yirril} [yirrIl] shell [windir] {wintir} large oyster {pinic} [pinic] what? {mitan} [midan] forehead {kittilkittil} [kIttilyIttil] white frog [IndTtti] {intitti} bitter {karr+mi+m+kani} [karrmɪnga<sup>y</sup>ni] they are both sitting 3duSNF-sit-PRES.

The present aspectual morpheme  $\{-m-\}$  assimilates to the same point of articulation as a following stop. See 3.4.3.3.(i). /i/ occurs word-initially only in the form cited above for speakers aged 58 or over. For younger speakers, initial /i/ also occurs on lexical items listed in 2.3.2 (d)(1).

- (2) phoneme /u/
- 2 allophones:  $[\upsilon]$  slightly lowered and centralised high back rounded vowel
  - [o] mid back rounded vowel

e.g.		
{pu}	[bo]	medicinal grass
{wupupu}	[ wυβυβο]	cyclone
{parr+p+mu}	[parrpmo]	they will sit
{muc}	[muc]	wallaby
{yura}	[yüra]	hole
{wuyun}}	[woyon]	fish eagle
{muntak}	[mundak]	old
{munnuk}	[munnuk]	toadfish
{kulløk}	[kuļļøk]	short

```
{kulluk}
                    [kulluk]
                                        blind
{curr+pe+yika}
                    [currneyiya]
                                        Get down!
(3) phoneme
              /e/
2 allophones: [\epsilon] mid front unrounded vowel
              [ 👸 ]
                    centralised mid front unrounded vowel
e.g.
{e}
                                        eh?
                    [ε]
                                       isn't it?
{enin}
                    [enin]
{eperre}
                    [EBETTE]
                                        migrant
{wettet/werret}
                    [wettet]/[werret] quickly
{na+ye+pe}
                    [nayese]
                                        I lie/lay
1sgS-lie-NF
                    [nawarravede]
{nawarrawete}
                                        sibling
                    [yëre<sup>y</sup>n]
{yeren}
                                        skin, clothes
                    [wërnan]
{wernan}
                                        gaping hole
                    [karrjëra]
{karrcera}
                                        water-lily.
/e/ occurs word-initially only in the instances cited
above, but is common word-finally.
(4) phoneme
              /ø/
2 allophones: [ø] mid front rounded vowel
               [y] high front rounded vowel
 \begin{cases} [Y] / \{ \frac{1}{[laminal cons]} \} \end{cases}
```

e.g.

```
{cøt}
                    [cyt]
                                         foot
                    [cywekpa]
                                         milky plum
{cøwekpa}
{pøce}
                    [byje]
                                         head
{merrepøce}
                    [merreβyje]
                                        hair
{cønka}
                    [cynga]
                                         base
{wørran]
                    [vørran]
                                         mosquito
{ nøl }
                    [ŋøl]
                                         milky mangrove
                                         I will hit him/it
{yan-pø-pø}
                    [yanbøßø]
                                         rain
{wøn}
                    [vøn]
                                         buttocks
{møn}
                    [møn]
                    [møna]
                                         husband
{møna}
{tørr}
                    [dørr]
                                         tamarind tree
                                         3plD pronominal
{-pørran}
                    [-børran]
                                         enclitic
{pørak}
                    [börak]
                                         small
{nakulø}
                    [ŋayʊlø]
                                         not
                    [kunøßiyørrk]
{kunøpiyørrk}
                                         storm wind from sea.
/ø/ occurs word-finally, but not word-initially.
(5) phoneme
              /a/
3 allophones: [a] low front vowel
               [a] slightly centralised low front vowel
               [a] low back vowel
                       ____[retroflex cons]
e.g.
{apepa}
                    [aβεβa]
                                         deaf-mute
{walapic}
                    [walaßic]
                                         flying-fox
{warapel}
                    [wäraß El]
                                         kangaroo sp.
{watarran}
                    [wadarra<sup>y</sup>n]
                                         witchetty grub
```

[kändatmene] {kan+tat+mene} s/he bit/es her 3sqA.3sqfO+bite+NF (by P 5).  $\{kanpVrr+tat+mene\}$   $[ka^{Y}nbattatmene]$ they bit/e her · 3plA.3sgfONF-bite-NF (by P 1). on the coals {wantac} [wandac] [wan] harpoon-shaft {wan} [wayac] beach {wakac} shark sp. {wanka} [wanga] {wanka} [wanga] corroboree [wajiqi<sup>y</sup>n] Wajiginy {wacikin} /a/ occurs word-initially and finally.

#### 2.5 Word-accent and sentence intonation.

(i) <u>Word-accent</u>. Word-accent is predictable, the distinction being between accented and unaccented syllables. Accented syllables bear high pitch, unaccented syllables, low pitch. A phonological word is defined as one whose stem-initial syllable is prominent. Prominence is marked by raising the pitch level of the stem-initial syllable of a word, e.g.

['dɛc] nit {tec} ['wasra] {wara} paperbark {munnuk} ['mun\$nuk] toadfish ['wä\$ra\$βεl] {warapel} kangaroo sp. ['ban\$ba\$\ba\$ba] {panpapanpa} flat {kunøpiyørrk} ['ku\$nø\$βi\$yørrk] storm wind from sea ['na\$\beta arrk\$ka\$la\$ma\beta n] {naparrkkalaman} old woman {parrkkatta+malan} ['barrk\$kat\$ta\$ma\$lan] two ['ka\$ve<sup>Y</sup>n\$da\$wa\$rra] {kawen+tawarra} furious.

Where the stem-initial syllable is not word-initial, as on verbs, pitch-raising spreads leftwards from the initial syllable of the stem, e.g.

{yan+pø+mene} ['yan'\$bø\$m $\epsilon$ \$n $\epsilon$ ]
1sgA.3sgmO-hit-NF I hit him/it

{pilk+yan+pø+mene} ['b:lk\$'yan\$'bø\$me\$ne]
slap-1sgA.3sgmO-hit-NF I slap/ped him/it

Inflectional and derivational suffixes are unaccented, e.g.

{yanan+pø-mene-makka} ['ya\$'nan\$'bø\$me\$ne\$mak\$ka]
1sgA.3sgfO-hit-NF-PERF I hit her

{penpVrr+tut+mene+m+kulø} ['nɛn\$'büt\$'tut\$mɛ\$nɛŋ\$gu\$lø]
2plA.1sgO-leave-NF-PRES-Neg Don't leave me behind!
IMP

{ŋaŋka+pøm+pi+cica+rraŋ} ['ŋaŋ\$'ka\$'βøm\$bi\$ji\$ja\$rraŋ]
1duincS-hug-RECI-HAB we used to hug each other

Clitic and host word form a single phonological unit, e.g.

{nace+rrankarra} ['na\$je\$rran\$ga\$rra]
1sgP-another me too

{mørrakara+mini} ['mø\$rra\$ya\$ra\$mɪ\$ni]
yesterday-then yesterday, at that time

{kan+mi+m+parrk} ['kayn\$'mi\$m\$barrk]
3sgfSNF-sit-PRES-still she's still alive

{karr+pette+mente} ['karr\$'\beta\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\epsilon\eppilon\epsilon\epsilon\eppilon\epsilon\eppilon\epsilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\eppilon\

```
['ka<sup>y</sup>$'puk$'pi$'ja$$ø$rran$ga<sup>y</sup>$ni]
{kan+wukpica+pørrankani}
                             she called out to them both.
 3sgfSNF-call out-3duD
{yenpVrr+pV+tal+pa+nun+pakka}
3plA/3sgfOFUT-FUT-bite-FUTCM-PUR-re
['ye'n$'barr$'βä$'dal$βa$nuη$bak$ka]
  they really will bite her.
The initial CV of the clitic particles {-pente} 'now',
{-pakka} 'same/really', and {-pakkacca} 'obligated' elide
after a host-final vowel, e.g.
                           ['ma$nen$de] ostracised
{man+pente}
 rock-now
{pørrec+pene+pente}
                             ['nY$rrec$pe$nen$de]
pandanus-LOC-now
                               on the pandanus now
\{karr+pe+m+cø+makka+pakka\} ['karr$'\beta \epsilon^{Y}n$jY$mak$kak$ka]
 3plSNF-go-PRES-CONT-PERF-re They've really been going
The initial syllable of the clitic particle {-t/rrankarra}
'another/again' elides after a host-final nasal, e.g.
{nace+karran+karra}
                             ['na$je$ya$rran$ga$rra]
 1sgP-ERG-another
                               I too (did/do X)
{nace+kuttun+karra}
                             ['na$je$yut$tun$ga$rra]
1sgP-SEMB-another
                               same with me
Compounds are treated as a single phonological unit, e.g.
                             ['ka$ve'n$da$wa$rra] furious
{kawen+tawarra}
{yik+kurrma}
                             ['yik$kurr$ma]
                                                  old man
```

{ nanaperrac+pen+i+na }
block+2sgA.1sgO+make+NF

['ma\$'na\$βε\$'rrac\$'mε\$'ni\$ma]
You block/ed my view.

Word-accent helps to distinguish a compound nominal from two nominals juxtaposed in possessive relation, e.g.

{pampac+kalan} ['bam\$bac\$ka\$lan] woman with baby {pilawuk pampac} ['bɪ\$la\$wuk#'pam\$bac] Bilawuk's baby.

- (ii) <u>Sentence intonation</u>. Sentence intonation falls outside the scope of this thesis, but preliminary investigation revealed the following:
- (a) Non-questions normally end on a low pitch, e.g.

{kamanka}

['ka\$man\$ga]

nothing

{yakarra}

['ya\$ya\$rra]

Oh, no!

{nanan+karran kan+pø+mene+makka}

man-ERG

3sqA/3sqfONF-hit-NF-PERF

['na\$nan\$ga\$rran#'ga $^{y}$ n\$'bø\$me\$ne\$mak\$ka] the man hit her.

(b) Questions end on a high pitch, e.g.

{kamanka}

['ka\$man\$'ga]

nothing?

{pine}

['bIS'nE]

where are they?

2.6 Alternative analyses compared. The analysis of Bachamal stop consonants presented above must be argued for, because alternative analyses are possible. Three analyses have been proposed: the first, presented in this thesis; the second, suggested by Neil Chadwick (pers. com. 1989), the third, proposed by Evans (1987a). Only the

first analysis is the product of extended work on the language. The three analyses, presented in the above order, are compared as follows:

- (i) <u>Bachamal has a single series of stop consonants</u>.

  This series is underlyingly voiceless. Voicing occurs regularly only after nasals and between voiced segments.

  Bachamal syllable structure allows for consonant-clusters at syllable-boundaries. Homorganic consonant-clusters include sequences of identical stops, nasals and laterals. The advantages of this analysis are:
- (a) simplicity: it means fewer phonemes than any competing analysis, and no extra complication in phonotactics;
- (b) comprehensiveness: the rules proposed account adequately for all data up to word-level, including reduplications and polymorphemic compounds;
- (c) a powerful syllable structure: all morpheme and word boundaries coincide with syllable boundaries.  $C_1$  of  $C_1V$  may be any consonant except a retroflex lateral,  $C_1$  of  $C_1VC_2$  may be any consonant except a retroflex nasal.  $C_2$  of  $C_1VC_2$  may be any consonant except a labial-velar approximant. Restrictions on  $C_1C_2V$ ,  $C_1C_2VC_3$  and  $C_1VC_2C_3$  are described in 2.7. The fact that many syllables may begin or end with a stop gives rise to stop-clusters, some of them geminate, across syllable-boundaries. All stop-clusters are voiceless and all occur across syllable boundaries.
- (ii) Bachamal has two series of stops: voiced and voiceless.

The implications of this analysis are:

- (a) lack of economy: ten stop-phonemes instead of five;
- (b) uneven distribution of voiced and voiceless stops: voiced stops regularly occur only after nasals, voiceless stops only word-finally. There is no motivation for the word-initial voicing of apical and bilabial stops, while laminal and velar stops are voiceless, or for the voicing intervocalically of apical and laminal stops, but the voicing and fricativisation of peripheral stops;
- (c) no simplification in syllable-structure;
- (d) unmotivated devoicing rule required to account for the fact that, in reduplicated forms, an initial voiced stop is regularly repeated as voiceless, e.g.

{pucpuc} [bucpuc] bald
{pirricpirric} [birricpirric] trevally.

[bY\$jε]

{pøce}

(e) inability to account for stop-allophony across syllableor morpheme-boundaries, e.g.

head

{kappuk+ŋa+puka} [kap\$puk\$ŋap\$pu\$ɣa] I bathe/d
{kappuk+ŋa+p+puka} [kap\$puk\$ŋap\$pu\$ɣa] I will bathe

{natpV+tat+mene} [nat\$pä\$rat\$me\$ne] s/he/they bit/e/s us, excluding you

{narranpV+tat+mene}[na\$rran\$bä\$rat\$mɛ\$nɛ] s/he/they bit/e/s us, including you.

By M 1, a retroflex stop lenites to a continuant after a prefix-final vowel (see 2.12).

(iii) <u>Bachamal has two series of stops: short voiced and</u> long voiceless.

The disadvantages of this analysis are:

- (a) lack of economy: ten stop-phonemes instead of five;
- (b) uneven patterning: according to this analysis, voiceless stops are the only long consonants in Bachamal. My study has shown that apical and bilabial nasals and all three laterals are open to analysis as long consonants. No reason is provided for the uneven patterning of the 'long' stops;
- (c) uneven distribution: 'long' and 'short' stops contrast intervocalically and after liquids. My study has shown that 'long' and 'short' nasals and laterals contrast only between vowels. It is suspicious that long consonants do not occur word-finally. No motivation is offered for this limited distribution for the stop series;
- (d) unmotivated restrictions on syllable-structure: 'long' stops are restricted to word-medial, syllable-initial position;
- (e) inability to account for reduplicated forms;
- (f) unmotivated rules to make 'long' stops into 'short' voiceless stops initially, finally and in heterorganic stopclusters;
- (g) inability to explain the manufacture of 'long' voiceless stops from 'short' voiced stops in poly-morphemic compounds, e.g.

{yarr+turra} > [yatturra] we, excluding you, cook/ed it

By P 1, a trill hardens to a stop before an apico-alveolar stop (see 2.11).

{ŋa+par-a} > [ŋa\$βa\$ra] I walk/ed
{ŋa+p+pur-iŋ} > [ŋap\$pu\$rɪŋ] I will walk
By M 2, the future tense allomorph /-p-/ and the initial
consonant of the future verb stem /pur/ form a 'long' stop.

**2.7 Phonotactics.** Bachamal has the following canonical syllable-structure:  $(C<_1(C)>_1)$  V  $(<_2(C)>_2C)$  where  $<_1>_1$  precludes  $<_2>_2$  and vice versa. This structure is realised in the following syllable-types:

V CV CCV CVC

Syllable-type V is restricted to unrounded vowels. It is attested only in the following items:

{e} eh? (English loanword)

{enin} isn't it?

{eperre} migrant

{akuk} man's name

{anikine} when?

{alana} woman's name.

Syllable-type VC is rare. In the corpus, it is restricted to /i/ and /a/ followed by a non-retroflex stop or nasal, or, in one loanword, by a labial-velar approximant, e.g.

{intitti} bitter

{attu} cross-cousin

{antanan} man's name

{acca} female ego's sibling or father's father

{accecca} ostentatious

TABLE 1 CVC realisations

	+	<u>†</u>	С	k	р	n	ņ	ħ	ŋ	m	W	j	i	-	Ĭ	rr	r
†i	+	+							+				+			+	+
†u	+								+				+			+	
te tø	+		+			+		+								+ +	
ta			+ .	+	+				+				+				
†i													+				
tu te				+	+								+				
tø																	
†a	+			+									+				
ci	+		+	+		+		+	+	+			+			+	
cu				+		+			+	+			+			+	
ce	+				+	+		+		+			+			+	
cø	+								+								
ca	+			+		+		+	+	+			+		+	+	
ki	+		+			+		+								+	
ku	+			+		+		+	+			+	+	+	+	+	
ke													+			+	
kø				,													
ka	+		+	+	+	+	+	+	+	+		+	+		+	+	
рi	+		+	+		+		+					+			. +	
pu	+		+	+ '		+		+				+	+		+	+	
рe	+		+	+		+		+					+			+	+
þφ	+		+						+	+		+	+				
pa .	+	+	+	+	+	+	+	+	+	+		+			+	+	
ni			+			+		+	+				+				
nu			+	+		+			+								
ne	+		+ ,			+		+	+	+							
nø																	
na			+	+		+			+	+						+	
ņi																	
ņu																	
ņe																	
ņφ																	
ņа																	
ηi				+ ,		+			+				·				
ηu									+								
ne,						+										+	
ηø									++								
<b>"</b> na					+				+	+						+	
ŋi						+										+	
ŋu			+	+		+		+					+				
ŋe	+		+					+									
ŋø									_						+		
ŋa	+		+	+	+	+		+	+	+			+		+	+	

	†	†	C	k	р	n	ņ	Λ	ŋ	m	W	j	1	ļ	. L	rr	r
mi			+	+		+	- *	+	+	+			+				
mu	+		+	+		+		+	+	+			+	+		+	
me			+	+	.+			+		+			+			+	
mø								+	+						+		
ma	+		+ ,	+	+ .	+		+	+	+	/		+			+	
ji			+	+				+					+			+	
ju				+					+								
je jø			+			+		+	+							+	
ja	+		+	+	+	+		+	+							+	
wi				+		+		+	+				+			+	
wu	+		+	+		+		+	+							+	
we	+			+		+							+			+	
wø	1			+		+		+	+				+			+	+
wa	+			т					т.				т			т.	· T
li			+	+	+	+		+	+								
lu				+													
le Iø			+			+		+		+						+	
la				+	+	+		+	+	+			+			+	
ļi																	
ļu				+													
le																	
İφ				+													
la																	
Дi				+						+							
,				+													
ļu				•						+							
14										·,			• •				
le lø la			+	+	+				+	+					+		
										•							•
rri			+	+				+					+				÷
rru	+		++	+	+	+			+	+							
rre			+		+			+									
rrø						+											
rra			+	+	+	+		+	+				+		+		
ri		í	+	+	+	+		+	+							+	
ru				+								+					
re rø			+					+									
ra ra	4			1		4		4	+	+		<u> </u>					

Table 2: Phonemic realisations of  $C_1 V C_2 C_3$ 

kaļc	tilk	tu!k	tirrk	perk	nilŋ	kalp	terrp
pulc	cilk	kuļk	turrk	wirk	cilŋ	pulp	karrp
waļc	celk		currk	wark	pulŋ	walp	parrp
wuļc	calk		carrk		melŋ		
	calk		ļirrk				
			karrk				
	kalk		perrk				
	pilk		purrk				
	pulk	•	parrk			• • • • • • • • • • • • • • • • • • • •	
	palk		gurrk				
	pa∐k		ŋarrk				
	nulk		yerrk				
	mulk		yørrk				
	malk		wirrk				
	muļk		warrk				
	<b>ļ</b> aļk						
	waļk						

{apepa} deaf-mute

{appan} man's name

{aw} or (English loanword).

The most frequently occurring syllable-types are  $C_1\,V$  and  $C_1\,VC_2\,.$   $C_1$  of  $C_1\,V$  may be any consonant except a retroflex lateral. V may be any vowel.  $C_1$  of  $C_1\,VC_2$  may be any consonant except a retroflex nasal. The absence of a retroflex nasal in this environment is likely to be an accidental gap.  $C_2$  may be any consonant except the labial-velar approximant. Table 1 lists phonemic realisations of  $C_1\,VC_2\,.$ 

Syllable-type  $C_1 \vee C_2 C_3$  occurs less often than types  $C_1 \vee C_2 C_3$  or  $C_1 \vee C_2 C_3$ , but is relatively common.  $C_1$  of  $C_1 \vee C_2 C_3$  may be any stop, semi-vowel, or non-retroflex nasal or lateral. V may be any vowel.  $C_2$  may be any liquid or a laminal approximant.  $C_3$  may be any non-apical stop or a velar nasal. Table 2 lists phonemic realisations of  $C_1 \vee C_2 C_3$ .

Syllable-types  $C_1C_2V$  and  $C_1C_2VC_3$  are extremely rare.  $C_1$  of  $C_1C_2V$  must be a bilabial nasal,  $C_2$  the labial-velar approximant, V the high front vowel. This syllable-type is attested only in the token  $\{mwinak\}$  'scrub-turkey'.

Syllable-type  $C_1 C_2 V C_3$  is almost as rare.  $C_1$  of  $C_1 C_2 V C_3$  must be a bilabial stop or nasal,  $C_2$  the homorganic approximant,

Fully-specified distinctive feature matrix of systematic phonemes

	+	n	l	rr	†	ņ	!	r	C	ŋ	Ï	У	k	ŋ	W	р	m	i	u	e	ø	а
syllabic	_	-	-	-	_		_	-	_	-		-	-	-	-	-	-	+	+	+	+	+
consonantal	+	+	+	+	+	+	+	. <b>-</b>	+	+	+	-	+	+	-	+	+	(-	_		-	-)
continuant		+	+	+	-	+	+	+	_	+	, <b>+</b>	+	_	+	+	-	+	(+	+	+ .	+	+)
nasal	(-)	+	(-)	-	(-1)	+	(-)	_	(-)	+	(-)	-	(-)	+	, <b>-</b>	(-)	+	( -	_	_	-	-)
laminal	-	<b>-</b> .	_	-	( –	-	_	-)	+	+	+	+	( –	-	-	_	_	_	-	-	-	-)
retroflex	. ,-		_	-	+	+	+	+	(-	_	_	-	-	-	-	-	_	-	-	-	-	)
lateral	· · · -	_	+	-,	-	-	+	-	-	-	+	-	( –			_	-	_	-	_	_	-)
peripheral	_	_		_	. <u>-</u>	_	· · · <u>-</u>	-	( -	· <b>-</b>	-	-)	+	+	+	+	+	(-	+	_	_	-)
back	(-	-			_			_			-	-)	+	+		_	-	_	+	(-)		_
high	( -	_			-	_	· <del>-</del> .		+,	+	+	+	_	_	_	-	_)	+	+	_	_	(-)
low	( –	-	_	-	-	_	-		_	-	-	-	_	-	·	-	-	-	-)	-	-	+
round	(-	_	_	-	-	_	_	-	-	-	_	_	<u>-</u>	_	+	_	-	_	+)	-	+	(-)
voiced	( -	+	, <b>+</b>	+	_	+	+	+	_	+	+	+	-	+	+	-	+	+	+	+	+	+)
wide	( –		-	-	<del>_</del> -	-	-		+	+	+	+		-			-	_	-	_	-	<b>- )</b>

Redundant values are enclosed in parentheses.

V must be /i/ or /u/, C, a laminal or velar stop, e.g.

{pwuccaka}

stranger

{pwik}

bone

{pwik+karral}

shin-bone

{pwik+mitan}

blue-tongue lizard.

- 2.8 Feature specification. The features required to specify the systematic phonemes of Bachamal and their allophones are adapted from Ladefoged (1982:256-7), listed in Table 3 and defined as follows:
- (i) [+/- syllabic]

Any sound marked [+syll] functions as the peak of the syllable. Syllabic segments are restricted to vowels.

## (ii) [+/-consonantal]

Consonantal sounds are made when there is an obstruction in the vocal tract, amounting to a complete closure. This feature separates the open approximants from other phonemes.

#### (iii) [+/-continuant]

A sound is marked [+cont] when the airstream in the vocal tract is not completely blocked. Stops are marked [-cont] and thereby distinguished from all other phonemes.

#### (iv) [+/-nasal]

A sound is marked [+nas] when there is complete closure of the oral cavity, so that air can only escape through the nose. This feature distinguishes nasals from all other phonemes marked [+cont].

#### (v) [+/-laminal]

A sound marked [+lam] is made with the tongue-blade articulating against the palato-alveolar region. In lamino-dental sounds, the tongue-tip protrudes between the upper and lower teeth. This feature distinguishes the laminal series from all other phonemes.

#### (vi) [+/-retroflex]

A sound marked [+retr] is made with the tongue-tip curled back, forming a stricture with the palate. This feature distinguishes the retroflex series from other phonemes.

#### (vii) [+/-lateral]

A sound marked [+lat] is an approximant. It is made when one side of the tongue makes contact with the roof of the mouth, allowing air to escape down the other side. This distinguishes laterals from other approximants.

#### (viii) [+/-peripheral]

A sound marked [+peri] is made in the labial or velar regions of the mouth.

#### (ix) [+/-back]

A sound is marked [+back] when the highest part of the

tongue-body is in the back of the mouth. This feature distinguishes velar from bilabial consonants, and back vowels from all other vowels.

## (x) [+/-high]

A sound is marked [+hi] when the tongue is at or near the roof of the mouth. This feature distinguishes palatal consonants and high vowels from other phonemes.

### (xi) [+/-low]

A sound is marked [+lo] when the body of the tongue is low in the mouth. This feature differentiates low vowels from all other phonemes.

#### (xii) [+/-round]

A sound marked [+ro] is made with lip-rounding. This feature distinguishes the labial approximant and rounded vowels from all other phonemes.

## (xiii) [+/-voiced]

A sound is voiced when the vocal cords are vibrating. Only stops may be marked [-voic].

### (xiv) [+/-wide]

A sound marked [+wide] has a widened pharyngeal cavity, correlating with a relatively higher tongue position in the mouth.

# 2.09 Redundancy rules

# 2.10 Allophonic specification rules

$$(5) \qquad V \longrightarrow V^{Y} / \underline{\hspace{1cm}} [n]$$

2.11 Phonological rules

- - kappVrr-tut-mene > kapputtutmene
    3plA.3sgfONF-leave-NF they leave/left her.
- (P 2) p ----→ ø / \_\_\_\_ r

$$\begin{bmatrix} + nas \\ + lam \end{bmatrix} \qquad ----- \qquad \emptyset \qquad / \qquad \begin{bmatrix} + nas \\ - lam \\ - retr \\ - peri \end{bmatrix}$$

- e.g. yanan-n-ene > yananene
  1sgA.3sgfO-see-NF I see/saw her
- $(P 3) \qquad p \qquad ---- \qquad n \qquad / \qquad r$

$$\begin{bmatrix} +nas \\ +lam \end{bmatrix} \quad ---- \Rightarrow \quad [-lam] \qquad / \quad \underline{\qquad} \quad \begin{bmatrix} -syll \\ -cons \\ +retr \end{bmatrix}$$

$$\begin{bmatrix} -syll \\ -cons \\ -lam \end{bmatrix} \qquad ---- \Rightarrow \qquad \emptyset \qquad / \begin{bmatrix} +nas \\ -peri \\ -lam \\ -retr \end{bmatrix} \qquad \underline{\qquad}$$

$$(P 5) \qquad p \qquad ---- \qquad \dot{p} \qquad / \qquad \qquad \dot{t}$$

$$\begin{bmatrix} +nas \\ +lam \end{bmatrix} \xrightarrow{----} \begin{bmatrix} +retr \\ -lam \end{bmatrix} / \underline{\qquad} \begin{bmatrix} -cont \\ +retr \end{bmatrix}$$

(P6)

$$\begin{bmatrix}
-syll \\
-cons \\
-retr
\end{bmatrix} ----- \emptyset / \begin{bmatrix}+nas \\
+lam
\end{bmatrix} ____$$

kanepe e.g. kan-yepe 3sgfSNF-lie she lies/lay kan-wukpica kanukpica 3sqfSNF-call out she calls/called out. (P 7) yaŋ-p-palama e.g. yappalama 1sgA.3sgmO-FUT-cut I will cut him/it yan-p-mara yapmara 1sqA.3sgmO-FUT-kick I will kick him/it. (P 8) nan-p-parrakka > e.g. ŋacpparrakka 1sgA.2sgO-FUT-pull I will pull you yarracpmara yVrrVn-p-mara > 1plincA.3sgfO-FUT-kick we, including you, will kick her.

- (P 8) and (P 9) are ordered,
  yarrac-p-mara > yarracmara

  gac-p-parrakka > gacparrakka.

# 2.12 Morphophonemic rules

$$(M 1) \qquad t \longrightarrow r / V]_{px}$$

$$\begin{bmatrix} -cont \\ +retr \end{bmatrix} \quad \xrightarrow{----} \quad \begin{bmatrix} +cont \\ -cons \end{bmatrix} \quad / \quad [+syll]_{px} \quad \underline{\hspace{1cm}}$$

$$(M 2) \qquad w \qquad ---- \qquad \emptyset \qquad / pl_{px} \qquad V$$

(M 3a) Vowel-insertion, monosyllables

$$\emptyset$$
 ----  $V_1$  / p] <sub>FUT</sub> \_\_\_\_ [<sub>stem</sub> C  $V_1$  #

(M 3b) Vowel-insertion, polysyllables

$$\emptyset$$
 ----  $V_1$  / p] <sub>FUT</sub> \_\_\_\_ [non-labial C]<sub>stem</sub>  $V_1$ 

e.g. yan-p-kirrwa > yanpikirrwa 1sgA-3sgmO-dig I will dig it

(M 5) t 
$$\longrightarrow$$
 1 / \_\_\_\_\_]<sub>stem</sub> [<sub>FUT</sub> pa

(M 6) 
$$\emptyset$$
 ----  $\Leftrightarrow$   $C$   $rr$   $\}_{\text{FUTstem}}$  #

$$(M 8)$$
  $\emptyset$  ----  $\Rightarrow$  a / C]<sub>FUTstemconj2</sub>  $=$  #

$$\begin{pmatrix}
M & 10 \\
w \\
r
\end{pmatrix}$$

$$----> \qquad \emptyset \qquad / \qquad rr \end{bmatrix}_{px} \qquad \underline{\qquad} $

e.g. yan-yi-na yaŋiŋa > 1sqA.3sqmO-put down I put it down yan-rikka yanikka 1sgA.3sgmO-sort I sort/ed it karr-wuc-mene karrucmene 3plA.3sgmO-scold-NF they scold/ed him. (M 11a)  $\{-np-\}_{prnpx}$  ----> t / \_\_\_\_\_ [ $_{vbstem}$  p, m e.g. kanp-marr-ana > katmarrana 3A.3plONF-paint-NF s/he/they paint/ed them  $\emptyset \longrightarrow V_1 / np ___ [_{vhstem} C V_1]$ (M 11b) kanp-turra > kanputurra 3A.3plONF-cook s/he/they cook/ed them (M 12a)  $\{-tp-\}_{prnpx}$  ----> t / \_\_\_\_ [\_vbstem p, m > ŋatpalama ŋatp-palama e.g. 3A.1plexONF-cut s/he/they cut us  $\emptyset \longrightarrow V_1 / \underline{\qquad} [_{vbstem} C V_1]$ (M 12b)e.g. natp-tut-mene > natpurutmene

3A.1plexONF-leave-NF s/he/they leave/left us

$$\left\{ \begin{array}{ccc} \text{(M 13b)} & \text{V}_1 & ---- \\ & & \text{\emptyset} \end{array} \right\}_{\text{vbstem}} \left[_{\text{ADMsx}} & ----- \\ & & \text{a} \end{array} \right]$$

(M 13c) 
$$\begin{bmatrix} ADMSX & n & V_1 & ---- \\ k \end{bmatrix}$$
  $\begin{bmatrix} V_1 \end{bmatrix}_{vbstem}$ 

#### 3 BACHAMAL MORPHOLOGY

3.1 <u>Introduction</u>. Bachamal is an agglutinating language.

Nominal suffixes mark syntactic and local case-relations,

derive further nominal stems and make modifier phrases from

complex NPs. Nominal prefixes on some kin-terms mark

gender.

All core arguments are encoded on type A verbs; S/A and O by obligatory pronominal prefixes, D by pronominal enclitics.

Type A verb affixes mark mood, tense, aspect and polarity; reflexivity/reciprocality is marked by a derivational suffix.

Compounding of nominal and verbal stems occurs; verbs employ noun-incorporation. Compound verbs consist of an inflected verb stem (verb stem type A) acting as auxiliary verb to a verb stem unmarked for tense, bearing no pronominal prefix, or inflectional or derivational affixes (verb stem type B).

An inflected verb may be followed by one of six intransitive type A verbs acting as its auxiliary, specifying the bodily orientation of the co-referential subject and bearing in addition to its own inflectional affixes, aspectual markers and pronominal enclitics governed by the main verb.

3.2 Word classes. Four word classes can be distinguished:

nominal: noun, adjective, free pronoun, deictic,

verbal: verb,

adverb: adverb,

particle: free particles (including interjections), clitic

particles.

Each word class can be justified on semantic, syntactic and morphological grounds.

Semantically, lexical items in the nominal class denote entities or attributes; items in the verbal class denote actions or states. Adverbs specify the time, place or manner of the action/state expressed by the verb. Particles may add illocutionary force or specify the focus or polarity, obligatory nature, immediacy, similarity or complementarity of a word, phrase or sentence.

Turning to grammatical relations, nominals make up a noun phrase. Nominals in S/A or O function agree in person, number and gender with the pronominal prefix inflection encoded on their verb. Nominals or NPs inflect to show syntactic and local case-relations. Derivational suffixes

derive further nominal stems; derivational case-suffixes
(Andrews 1985:92;96) make modifier phrases from complex NPs.
Verbal inflections mark mood, tense, aspect and polarity.
Nominal inflections are distinct from verbal inflections.
Nominal and verbal stems take different derivational
suffixes. Co-occurring aspectual suffixes are ordered;
completive or purposive markers may be displaced from their
regular post-verb stem position to cliticise sentenceinitial or final nominals, uninflected verb stems or
adverbs.

The interrogative adverbs {pinic} 'what?', {kine} 'where?' inflect to show causal, purposive and local case relations; other adverbs are invariable. All adverbs are restricted to sentence-initial or final position.

Free particles, including interjections but excluding negative particles, are invariable. All variable words may be modified by compatible clitics. Co-occuring clitics are ordered.

Within each major word class, sub-classes are semantically and morphologically motivated. Interrogatives are treated as nominal, verbal or adverbal, according to their morphology. The following sections define and illustrate each word class and their component sub-classes.

3.3 <u>Nominal morphology</u>. The major word class <u>nominal</u> contains the following sub-classes: noun, adjective, pronoun, deictic. Nouns and adjectives are open sub-classes with many members. Pronouns form a small closed system of free forms, pronominal enclitics, and interrogatives.

Deictics are a small closed class of third person forms.

Although any nominal may function as the head of a noun phrase, nouns do so most commonly. Any nominal may function attributively, but adjectives and deictics regularly do so.

All pronouns are marked for person and number. One adjective is marked for number. Some nouns, one adjective and all third person singular pronouns are marked for gender.

All nominal stems inflect to show case relations.

Derivational suffixes precede inflectional suffixes which precede clitics. Nouns and pronouns take identical derivational case-suffixes; adjectives combine with inchoative or causative verb stems to derive verb stems.

Body part nouns are incorporated into verb stems to derive further verb stems.

Compounding of nominal stems is productive, e.g. the neologisms incorporating English loan lexemes in (103),

(107)-(108). Reduplication of nominals is productive, e.g. (115).

#### 3.3.1 Noun morphology.

- (i) Gender. The masculine or feminine gender of humans and higher animals is marked on a dependent verb in the third person singular. Additional marking occurs on nouns denoting close kin. Nouns denoting close male kin are marked by an initial alveolar nasal; nouns denoting close female kin are marked by an initial velar nasal. Gender-marking is fused into these items; segmentation into separate morphemes is not possible. Other idiosyncratic differences were noted in the following exhaustive list of gender-marked kin-terms:
- (1) naraca female ego's daughter
- (3) nawak female ego's daughter's daughter, male ego's daughter's daughter
- (4) niwak female ego's daughter's son
- (5) nacim female ego's son's daughter
- (6) niyem female eqo's son's son
- (7) nanaman female ego's son's daughter's daughter
- (8) nanaman female ego's son's daughter's son
- (9) nayi male ego's daughter, either ego's brother's daughter
- (10) niya male ego's son, female ego's elder brother's son or husband's sister's son
- (11) nacinka male ego's sister's daughter
- (12) ninka male ego's sister's son

- (13) nanaren wife, female ego's father's sister's daughter
- (14) nagaren husband, husband's brother, husband's father's brother's son.
- (ii) Noun classes. Non-human nouns which are resources in the natural world belong to one of three noun classes and commonly occur with the appropriate generic noun class marker. The noun classes and their markers (ncm) are:
- (a) meat: ncm {mecem} meat
- (b) edible vegetable: ncm {menen} edible vegetable (edveg)
- (c) tree: ncm {wip} tree

Nominals denoting members of noun classes (a) and (b) follow their class markers, as in (15) and (16); nominals denoting members of noun class (c) precede theirs, as in (17).

- (15) mecem marruc mud crab
- (16) menen wunmarrac melnmeln long yam, cheeky yam
- (17) narrik win medicinal tree sp.
- (iii) <u>Inflectional suffixes</u>. Nouns inflect with any one of the following syntactic or local case-suffixes:

Absolutive  $\{-\emptyset\}$ 

Ergative/Locative {-karran}

Dative {-nun}

Instrumental/Allative {-cene}

Causal/Ablative {-makka}

Locative {-pene}

Inflectional suffixes follow derivational suffixes, e.g.

(30), (37), (42) and (62).

Absolutive  $\{-\emptyset\}$ . A nominal in S or O function (Dixon, 1979:60) takes the zero-suffix  $\{-\emptyset\}$ , e.g., e.g. (18)-(19), for nominals in S role, and (20), (23)-(25) for nominals in O role.

- (18) wik-Ø cirrcirr-wa-panka-Ø
   water-ABS boil-3sgS-stabAUX-NF
   The water boils/boiled (T4:32).
  The irregular verb {cirrcirr-panka} is discussed in Appendix 2.
- (19) muc-Ø-pente-kak kan-par-a-m wallaby-ABS-now-Foc 3sgfSNF-walk-NF-PRES Wallaby is going now (T2:11).

Ergative/Locative {-karran}. This morpheme is subject to allophonic variation according to the rules specified in 2.10.3a and exemplified in 2.3.2.(4).

- (i) <u>Ergative</u>. {-karran} regularly marks as ergative the human agent of a transitive verb, unless the sentence is counterfactual, as in (27).
- (20) para-Ø nuk-kan-i-na arm-ABS break-3sgA.3sgf0NF-put downAUX-NF

muc-Ø-kak memempena-karran
wallaby-ABS-Foc porpoise-ERG

Porpoise breaks/broke wallaby's arms (T2:43).

(21) cica-karran nanan ye-p-pønme-narrkka 3sgmDevis-ERG man 3sgA.3sgmOFUT-FUT-extinguish-1sgD win-Ø fire-ABS

That man you can see will extinguish the fire for me (AL:12).

The sun, female in Bachamal mythology, is marked ergative when she is the agent of a transitive verb, e.g.

(22) pattura-kanpi-yi-ŋa kayik-karran dry-3A.3plONF-makeCAUS-NF sun-ERG
The sun dries/dried them (T5:45).

The inanimate agent of a transitive verb is marked ergative in non-future sentences only, e.g.

- (23) win-karran nan-panka-0 nala-0
  wood-ERG 3sgA.1sgO-stab-NF hand-ABS
  A splinter pierces/pierced my hand (AL:23).

  An inanimate agent may not be marked ergative if its verb is marked for future tense; sentence (24) is ungrammatical for this reason.
- (24) \*win-karran nala-Ø na-p-paka pal fire-ERG hand-ABS 3sgA.2sgOFUT-FUT-stabFUT Get up!

  Get up, the fire will burn you! (AL:72).

The agent of the functionally ditransitive verbs {me},
'tell', {wukpica} 'call out to' and {wunmice} 'tell lie
to' is regularly marked ergative, although the pronominal
prefix to each verb marks it as intransitive, signalling S
function only, e.g. (25). Transitivity is discussed in
3.4.1.

(25) perrekut-karran ka-me-Ø-narran nerr-pe whitefella-ERG 3sgmSNF-tell-NF-1plexD 2plSFUT-go

wuccuc-perren-yu perr-pe

pick-2plA.3plO-put downFUTAUX 2plSFUT-goAUX

IMP

pørrec-Ø

pandanus-ABS

The whitefella told us: 'Go and pick pandanus!' (T5:1).

(26) naka-nun yec-p-pe nanana Who-PUR 3sqfSFUT-FUT-go first

nace kan-me-nacan muc-karran-kak
1sgP 3sgfSNF-tell-3sgfD wallaby-ERG-Foc

'Who's to go first?' 'Me!', wallaby told her (T2:9).

In counterfactual sentences, e.g. (27), an agent nominal is not marked ergative, although the pronominal verbal prefix cross-references A and O roles.

(27) nakulø-nte rak-Ø ka-n-ene-m
Neg-now country-ABS 3sgA.3sgONF-see-NF-PRES

memerencarrmul-Ø dugong-ABS

Dugong can't see country now (T3:47).

(ii) <u>Locative</u>. In its locative sense, {-karran} means 'inside', occurring only in apposition to an NP suffixed by the commonly occurring Locative case-suffix {-pene}, e.g. (28)-(29).

- (28) natta-pene kani-mi-Ø-rran nanamulmul-karran house-LOC 2sgSNF-sit-NF-HAB cave-LOC You always sit around the house, in a corner (AL:80).
- (29) cica menen-kak ka-cinpice-Ø-pente-pana 3sgmDevis edveg-Foc 3sgmSNF-go in-NF-now-3sgfIMPL

yerenmeca-Ø mipe-pene ci-karran skin-ABS eye-LOC 3sgmDetang-LOC

At once, that edible vegetable skin went into her eye, inside here (T3:48).

The dative case suffix is homophonous with the verbal purposive suffix and both may co-occur, e.g. (32).

Both suffixes mark the 'indirect object' or goal of an action, but the nominal suffix marks a 'passive' goal (cf. Dixon 1980:298), e.g. (30)-(31), (33), while the verbal suffix marks action intended to attain the goal, e.g. (32), (34).

- (30) kutpøpørør-na-mi-Ø acca-palak-kun anxious-1sgS-sit-NF sibling-GEN-DAT I worry/worried for my sister (AL:40).
- (31) nen-ce-parra werret kan-me-nacan
  2sgA.1sgO-giveFUT-RET quick 3sgfSNF-tell-3sgfD
  IMP

win-nun nak-yanan-paka

milk-DAT mouth-1sgA.3sgfO-stabFUT

'You give me (her) back quick so I can breast-feed her!' she told her (T2:31).

(32) menen-nun nanka-pe yanken-kirrwa-nun edveg-DAT 1duincS-go 1duincA.3p10-dig-PUR

IMP IMP

nanka-pe kan-me-nacan memempena-karran
lduincS-goAUX 3sgfS-tell-3sgfD porpoise-ERG
IMP

'Let's both go for edible vegetables, let's both go to dig for them!' porpoise told her (T2:6)

- (33) wik-kun na-pette-0-m
  water-DAT 1sgS-die-NF-PRES
  I'm dying for some water (JR:2).
- (34) mecem-mun ka-pø-mene-narrkka meat-DAT 3sgA-3sgONF-kill-NF-1sgD

ye-ci-nun ka-me-Ø-makka

2sgA.3sgOFUT-eatFUT-PUR 3sgmSNF-say-NF-PERF

IMP

He killed it for meat for me and said 'Eat it!'

The Dative affix is used in an allative sense in the following customary greeting:

(35) Q: kine-nun na-p-pur-in
Where-DAT 2sgSFUT-FUT-walkFUT-FUTCM
Where are you heading? (JR:1).

Causal/Ablative {-makka}. In its ablative sense, the nominal suffix {-makka} marks direction away from a place, e.g. (36), or person, e.g. (37). In its causal sense, {-makka} marks the reason why something exists or occurs, e.g. (37)-(42). The nominal suffix {-makka} is homophonous with the perfective aspectual marker, which may cliticise a sentence-initial nominal, uninflected verb-root or adverb. In (37), commonsense tells us that the first instance of {-makka} is aspectual; the second {-makka} is truly ambiguous.

- (36) kine-makka kane-pe-Ø putan-makka na-pe-Ø
  Where-ABL 2sgSNF-go-NF town-ABL 1sgS-go-NF
  Q: Where've you come from? A: I come from town (JR:6).
- (37) warrkati-makka yan-kunme-Ø kalan-palak-makka dillybag-PERF 1sgA.3sgmO-bring-NF mother-GEN-ABL/CAU I brought the dillybag from/in memory of my mother.
- (38) nentu-makka kel-Ø
  horse-CAU path-ABS
  A track made by horses (AL:3).
- (39) calkma-nte naccur-makka
  bad-now salty-CAU
  He's sick now from grog (AL:4).
- (40) namalik cica cøt-Ø wulli-makka covered 3sgmDevis foot-ABS mud-CAU

  That man's foot is covered with mud (AL:199).
- (41) ninic-makka kan-pette-Ø mankarra-makka
  What-CAU 3sgfSNF-die-NF phlegm-CAU
  Q: What did she die of? A: Of bronchitis (JR:30).

(42) nace na-palam-ica-makka milmak-Ø acca-palak-makka 1sgP 1sgS-cut-REFL-PERF sorrycut-ABS sibling-GEN-CAU I gave myself a sorry cut in memory of my brother.

Instrumental/Allative {-cene}. This morpheme is subject to allophonic variation according to the rules specified in 2.10.3 and exemplified in 2.3.2. In its instrumental sense, {-cene} marks the weapon used to hit a target, e.g. (43), the tool used to perform an action, e.g. (44), the material out of which something is made, e.g. (45)-(46), the language used to convey a message, e.g. (47) or, metaphorically, the organ with which one feels emotion, e.g. (48).

(43) cenmiyic-kak wernan pøce-Ø lankurr-cene 3sgfP-Foc gaping head-ABS club-INS

kan-pø-mene-makka 3sgA.3sgfONF-hit-NF-PERF

She hit her on the head with a club and made a gaping hole (T3:50).

(44) mipenala-cene nananana-ka-cetpe-Ø fingernail-INS split-3sgA.3sgONF-take outAUX-NF

kan-mi-n-cø
3sgfSNF-sitAUX-PRES-CONT

She's sitting, continually splitting it with her fingernail (T4:21).

(45) wekpec-Ø nørrec-cene møn-yenka-nønme basket-ABS pandanus-INS base-2plA.3sgmOFUT-start

nerr-mu
2plSFUT-sitAUXFUT
IMP
Sit down and start making a basket out of pandanus!

- (46) nanparr-marr-ana mulurrum-cene
  3plA.1sgO-rub-NF white clay-INS
  They paint/ed me with white clay (AL:200).
- (47) mal-cene perr-me-parra-kani
  language-INS 2duSFUT-say-RET
  IMP
  Answer in language, both of you! (T3:14).
- (48) kawen-yan-e-wene cica nanan-Ø blood-1sgA.3sgmO-give-NF 3sgmDevis man-ABS manac-nace-pøttun-cene heart-1sgS-GEN-INS
  - I hate that man with all my heart (AL:62).

In its allative sense, {-cene} always attaches to nominals denoting a location, e.g.

(49) caparrawut-cene parrana-kak karr-par-a other side-ALL 3plDeaud-Foc 3plSNF-walk-NF That mob walked along to the other side.

Locative {-pene}. This morpheme is subject to allophonic variation according to the rules expressed in 2.10.5. {-pene} marks location at, in, or on a place, e.g. (50)-(53). Locative {-karran} further specifies the location as inside a place. {-karran} only occurs in apposition to an

NP marked Locative by the suffix  $\{-pene\}$ , e.g. (28)-(29). There is no such restriction on the occurrence of  $\{-pene\}$ , e.g. (50)-(51).

(50) cenmiyic-pente puc kan-par-a-cena
1sgfP-now straight 3sgfSNF-walkAUX-NF-run
nalkin-pene
sea-LOC

As for her now, she ran straight into the sea (T2:58).

(51) win-Ø wunnarr-kak mit-ka-wakaca-Ø tree ncm yellow-Foc pretty-3sgSNF-come out-NF

\_nørrec-pene-nte \_pandanus-LOC-now

The yellow (dye) comes/came out pretty on the pandanus (T4:33).

Body part nominals + {-pene} form locative adverbials, e.g. (52)-(53).

- (52) pepera-pene back-LOC Behind my back.
- (53) manac-pene
   chest-LOC
   In front of me.
- (iv) <u>Derivational suffixes</u>. These are of two types: type I, which derive a further nominal stem, and type II, properly termed derivational case-suffixes (Andrews 1985:92; 96),

because, suffixed to complex NPs, they make modifier phrases. Derivational suffixes precede core syntactic or local case-suffixes, e.g. (30), (37), (42), (66).

### Type I

- (a) {-manka} 'empty'. Suffixed to a noun stem, {-manka} derives a further noun stem, e.g. (54)-55) or adjectival stem, e.g. (56). {-manka} is cognate with the negative particle {kamanka} 'nothing', which is discussed in 3.6.1.
- (54) pepera-maŋka back-EMP Widower.
- (55) pellem-manka thigh-EMP Man whose children are dead.
- (56) peyik/ŋala-maŋka bag/hand-EMP Empty-handed.
- b) {-malan} 'full of'. Suffixed to a noun stem, {-malan} derives a further noun stem, as in (57), or an adjectival stem, e.g. (58)-(59).
- (57) nukac-malan feather-FUL Bird (generic).
- (58) parrkkatta-malan two-FUL Two.

(59) kucuk-malan vagina-FUL Sexy.

#### Type II

(a) One of a group
{b) Comitative
{c) Place
{d) Semblative
{e) Genitive
{-pottun}}

- (a) One of a group {-kani}. The derivational case-suffix {-kani} is homophonous with the pronominal enclitic {-kani} which specifies a dual S/A or O. Derivational {-kani} marks coordination within an NP, e.g. (60)-(61). There is no restriction on the number of coordinate nominals which may be marked with this suffix, e.g. (61). When a single nominal in S/A role is marked thus, its verb is cross-referenced for a dual subject with the pronominal enclitic {-kani}.
- (60) narrawe te-kani narra-par-a-kani brother-one of gp lduS-walk-NF
  My brother and I went.
- (61) nakki-kani watawu-kani kullak-kani Nukkey-one of grp Wardawu-one of gp Catfish-one of gp

pilawuk-kani kanka-pe pukpica Bilawuk-one of gp 2plSNF-go together

You went together with Nukki, Wardawu, Catfish and Bilawuk.

- (b) <u>Comitative</u> {-malinmica}. This suffix means 'with, as accessory', e.g. (62)-(64).
- (62) mørrakara-makka nulknawak-malinmica na-pe-Ø
  yesterday-PERF children-COM 1sgS-go-NF
  Yesterday I went, taking the children with me.
- (63) matamalan turrkat-malinmica ya-kunme-narrkka
  fish potato-COM 2sgA.3sgOFUT-bring-1sgD
  IMP
  Bring me fish with chips! (AL:69)
- (64) win parrkkattamalan-malinmica na-pe-Ø stick two-COM 1sgS-go-NF I walk with the aid of two sticks.

Place {-nini}. {-nini} means 'place associated with' and attaches to NPs denoting humans or entities deemed human in Bachamal mythology, e.g. (65)-(67). It precedes a locative case-suffix, e.g. (66).

- (65) yelawen-nini
  wild onion-PLAC
  Wild onion dreaming site (AL:17).
- (66) ŋarr-ŋaca-m-parra-kanı nal para 1duS-come-PRES-RET cheek creek

narrman-nini-pene ţulk bailershell-PLAC-LOC dreaming

We're both coming back along the banks of the creek to the place of the bailer-shell dreaming (T5:9).

(67) pwuccaka nanan karr-pette-Ø-makka strange man 3plSNF-die-NF-PERF

kane wewin-nini rak
2sqP spiralshell-PLAC country

The strangers died in the country where you and Spiral-shell, (Agnes), have your dreaming (AL:33).

Semblative /-kuttun/  $\sim$  /terric---kuttun/ 'like'. An NP is suffixed by /-kuttun/ and optionally prefixed with /terric-/ to make an adjectival phrase, e.g.

- (68) terric-natta parrkkattamalan-kuttun pamalan tulk SEMB-house two-SEMB big whale A whale as big as two houses (AL:19).
- (69) nawen-palak-kuttun yanan-ukka auntie-GEN-SEMB 1sgA.3sgfO-copy I look like my auntie (father's sister) (AL:342).

Genitive /-pøttuŋ/ ~ /-palak/. Both allomorphs are subject to allophonic variation according to the rules expressed in 2.10.3b and exemplified in 2.3.2.(5).

/-palak/ marks nominals denoting close kin as inalienably possessed, e.g. (30), (37), (42), (77). Kin-terms cited in (1)-(14) are eligible to be marked with /-palak/. /-pøttuŋ/marks alienably possessed entities, e.g. (70), (77). When ownership is emphasised, kin ineligible for marking with /-palak/ may be marked with /-pøttuŋ/, e.g. (71)-(73).

The body parts of humans and higher animals are inalienably possessed. This is expressed by the juxtaposition of possessor and possessed nominals, e.g. (74)-(75), except in emphatic sentences, where the body parts of ego or another

may be marked alienable, e.g. (48), (76).

- (70) murran camuyic-pøttun digging stick 3sgmP-GEN It's his digging stick (AL:40).
- (71) møna cenmiyic-pøttun husband 3sgfP-GEN That's her husband (KM:3).
- (72) yenere-kan-kunme kan-par-a steal-3sgA.3sgfONF-takeAUX 3sgfSNF-walkAUX-NF

memempena-pøttun pampac porpoise-GEN baby

She went and stole porpoise's baby (T2:58).

(73) nakulø-pe nan-pe-ce cin pampac not-ever 1sgA.2sgO-FUT-give 3sgfDetang baby

nace-pøttun-pe
1sgP-GEN-ever

- I'll never give you this baby. It's mine for ever! (T2:29).
- (74) kalppa muyin tail dog The dog's tail.
- (75) nace ca-kak nala
  1sgP 3sgmDevis-Foc finger
  That there is my finger (T4:31).

(76) nakki-pøttun nala ci-kak
Nukkey-GEN finger 3sgmDetang-Foc
This here is Nukkey's finger (T4:16).

When both allomorphs of the genitive suffix occur on the same item, /-palak/ precedes /-pøttun/, e.g. (77).

(77) muyin pappa-lak-pøttundog father-GEN-GEN

My father's dog/s.

By haplology, the initial syllable of /-p.

By haplology, the initial syllable of /-palak/ is elided after the identical stem-final syllable of {pappa}.

 $\{-p \not o t t un\}$  overlaps with Dative when it marks an intended attribute, e.g. (78)-(79) and (87).

- (78) nan-uka-m-pente pattura-pøttun
  1sgA.3plO-tie up-PRES-now dry-GEN
  I'm tying up the ones intended to be dry (T4:33).
- (79) mipemenen perr carakku-pøttun-kak seed 3plDetang good sgm-GEN-Foc These are the seeds for a good (dye) (T4:50).
- 3.3.2 Adjective morphology. Adjectives specify the age, size, quantity, colour, smell, taste, feel, and appearance of concrete entities, and the physical, emotional and mental attributes of humans and higher animals.
- (i) <u>Word order</u>. Adjectives precede or follow the noun they modify. A sequence of two adjectives is common, e.g. (80), but sequences of three are attested, e.g. (81).

- (80) kucukkucuk pøccalak karrunmalananan little girl small beautiful She's a beautiful little girl (JR:2).
- (81) nuna ka-wakaca carakku-nte wuriwuri then 3sgmSNF-come out good-now red

wungarrwungarr kalla yellow colour

Then a good red, a good yellow colour comes out (T4:52).

(ii) Number and gender marking. The adjective {carakku} 'good', is marked for number, and singular gender, e.g. (82)-(83). Forms are listed in Table 4. Number and 3sg gender are marked on deictics and the interrogative adverb allomorphs /cine/ ~ /cinina/ ~ /pine/ 'where is he?/ she?/ where are they?'. Identical marking occurs on the cognate Puŋupuŋu adjective, interrogative and deictics (Tryon n.d.: 104). Number- and gender-marking may have been borrowed into Bachamal from Puŋupuŋu, or may represent the start of a Bachamal system that failed to be productive.

Table 4: Adjective inflections

Singular
Plural
carakku
Feminine

Table 4: Adjective inflections
plural
parakku

(82) perr win-pakka kulkamit-tun parakku-kak 3plDetang tree-same pretty colours-DAT good pl-Foc These same trees are good (sources) for pretty dyes (T5:49).

- (83) canakku kani-mi naraca
  good sgf 2sgSNF-sit daughter
  Are you OK, daughter?
- (iii) <u>Case inflections</u>. If an adjective is the final or only nominal in an NP, it inflects for case, e.g.

#### Absolutive.

- (39) calkma-nte naccur-makka
  bad-now salty-CAU
  He's sick from the grog (AL:4).
- (84) mønkantalapine-Ø rin-kanpat-tut-mene-makka trailing-ABS pass by-3plA.3sgfONF-leaveAUX-NF-PERF They passed her by and left her trailing behind.

### Ergative

(85) kan-ukpica-Ø kan-mi-m-pørran-kani yik-karran 3sgfSNF-call out-NF 3sgfSNF-sitAUX-PRES-3duD old-ERG The old woman is sitting, calling out to those two (T6:40).

#### Causal See (39)

#### Locative

- (86) pamalan-pene narra-mi
  big-LOC lplincS-sit
  We all sat in a big mob (JR:12).
- (iv) Nominal derivational suffixes

#### Genitive

(87) wac paypay-pøttun pap pattura-narrin-yi-na-n-cø some white-GEN up dry-lexA.3plO-make-NF-PRES-CONT Some (pandanus fronds), intended to be white, we're drying on top (ofbushes) (T4:46).

- (v) Verbalising derivational affixes
- (a) <u>Inchoative</u>. An adjective may be incorporated into the inchoative verb {me} 'become' to derive an intransitive verb, e.g. (88).
- (88) yik-kane-me nananmeca menen parrma fat-2sgSNF-becomeINCH body edveg many

nen-ci-nene
2sgA.3plO-eat-NF

You got fat from eating too many vegetables (AL:213).

- (b) <u>Causative</u>. An adjective may be incorporated into the causative verb {yi} 'make' to derive a transitive verb, e.g.
- (89) carakku-nen-i-na-m good-2sgA.1sgO-makeCAUS-NF-PRES You're cheering me up (JR:30).

## 3.3.2.1 Numerals

- (90) nancic one
- (91) parrkkatta-malan two
- (92) parrkkatta-nancic three
- (93) parra-nancic five

Reduplicating a numeral doubles its value, e.g.

- (94) parrkkatta-malan+parrkkatta-malan 'four'
- (95) parra-nancic+parra-nancic 'ten'.
- (i) <u>Case-inflections</u>. If a numeral is the final or only nominal in an NP, it inflects for case, e.g.

## Ergative

(96) ka-wukpica-Ø ka-caŋa-Ø-m-parra-nøŋ
3sgmSNF-call out-NF 3sgmSNF-standAUX-NF-PRES-RET-3sgmD

nancic-karran one-ERG

Another stands and calls out to him in reply (T6:11).

#### Locative

- (97) win wunnarr-pøttun ci pilikan nancic-pene wood-yellow-GEN 3sgmDetang billycan one-LOC Those with yellow dye are in this other billy-can (T5:49).
- 3.3.3 Compound nominals. Compound nominals behave as a single phonological unit; prominence is marked by raising the pitch of the initial syllable of the first stem in the compound. Compound nominals are productive, viz. the neologisms incorporating English loan lexemes cited in (103), (107)-(108).

All compound nominals attested incorporate nominals denoting body parts or bodily functions. Body parts may be used literally, e.g. (107)-(108), metaphorically, in part-whole compounds describing anatomical details, e.g. (98), details of flora, e.g. (99)-(100), or features of the landscape, e.g. (101)-(103), to describe a kin relation, e.g. (104), or an emotional state, e.g. (105).

## Compound nominals are of two types:

- (i) noun + noun
- (98) mipe+cøt 'toenail' = mipe 'eye' + cøt 'foot'.
- (99) mipe+menen 'seed' = mipe 'eye' + menen 'edible
  vegetable'.
- (100)  $c \phi t + win$  'root' =  $c \phi t$  + win 'tree' +  $c \phi t$  'foot'.
- (101) nal+para 'creek bank' = nal 'cheek' + para 'creek'.
- (102) tirra+kalkalk 'edge of cliff' = tirra 'tooth' +
   kalkalk 'cliff'.
- (103) tirra+cimin 'edge of pavement' = tirra 'tooth' + cimin
  'cement'.
- (105) kawen+tawarra 'furious' = kawen 'blood' + tawarra
   'belly'.
- (106) pappurrk+cøt 'shoe' = pappurrk 'cover' + cøt 'foot'.
- (107)  $p \neq ce + \eta at$  'hat' =  $p \neq ce$  'head' +  $\eta at$  'hat'.
- (108)  $put+c\phi t$  'shoe' = put 'boot' +  $c\phi t$  'foot'.
- (ii) noun + adjective
- (109) nak+panpapanpa 'spoonbill (bird sp.)' = nak 'mouth' + panpapanpa 'flat'.
- (110) yik+nala 'thumb' = yik 'fat' + nala 'finger'
- (111) yik+kurrma 'old man' = yik 'old + kurrma 'snore'.

- 3.3.4 Reduplicated forms. Reduplicated forms are treated as a single phonological unit. They are productive, e.g. the neologism cited in (115). True reduplications are of two types:
- (i) noun + noun. These include the nonce forms (112)-(114):
- (112) nura+nura 'small boy', from nura 'penis'.
- (113) kucuk+kucuk 'small girl', from kucuk 'vagina'.
- (114) man+man 'base of rock', from man 'rock'.
- (115) para+para 'shirt', from para 'arm'.
- (ii) adjective + adjective. The reduplicated form intensifies the original, e.g.
- (116) pamalan+pamalan 'huge', from pamalan 'big'.
- (117) pøccalak+pøccalak 'tiny' from pøccalak 'small'.
- (118) nulk+nulk 'bit by bit', from nulk- 'small'.

Onomatopoeic compounds are not true reduplications, because the unreduplicated form does not exist. They are nonce forms, imitating by repetition sounds that evoke the entities they denote, e.g.

- (119) picpic 'bird which sings at dawn in the mangroves'.
- (120) warkwark 'green tree-frog'.
- (121) micinmicin 'sandpaper tree'. Its abrasive leaves are used to scrape off the scabs of ringworm sores.

3.3.5 Pronoun morphology. The core syntactic functions of this language are A, S, O, and D (dative). All core arguments are encoded on the verb: A/S and O by pronominal prefixes, D by pronominal enclitics. D enclitics mark oblique objects. Peripheral arguments are marked on the verb by third person IMPL (implicated) pronominal enclitics. Pronominal prefix forms are listed in Tables 10-12 and analysed in 3.4.3.1-3.

Pronominal verbal prefixes can be supplemented by free pronouns in A/S and O function. Free pronouns inflect for person and number and mark gender in 3sg and in each dual and trial category. Free pronoun forms are listed in Table 5 and analysed in 3.3.5.1. Free pronouns may act as the head of an NP, take nominal case-suffixes and combine with the nominal {nala} 'hand' to form reflexive pronouns; examples are provided.

Pronominal enclitics are discussed in 3.3.5.2.1-3. They frequently occur cliticised to a verb, but may cliticise an NP, e.g. (133)-(134). Pronominal enclitic forms are derivable from free pronoun forms. D pronominal enclitics inflect for person and number and mark gender in 3sg and in each dual and trial category. D forms are listed in Table 6 and discussed in 3.3.5.2.1. IMPL pronominal enclitics inflect for number and mark gender in 3sg. IMPL forms are listed in Table 7 and discussed in 3.3.5.2.2.

Deictics, restricted to third person forms, inflect for

Table 6: Free pronoun inflections

			singular	dual	<u>trial</u>	plural
1	inc			ŋaŋka	ŋarra-paŋa-kani	ŋarrara
1	ex	m f m	ŋace	ŋarra-kapi	ŋarra-pena-kani ŋarra-paŋa-kani ŋarra-pena-kani	ŋarra
2	f m		kane	nawarra-kani	nawarra-paŋa-kani nawarra-pena-kani	nawarra
3	f m		cenmiyic camuyic	pørra-kani	pørra-pana-kani pørra-pena-kani	parrmuyic

Table 7: D pronominal enclitic inflections

	•	singular	dual	<u>trial</u>	<u>plural</u>
1 ind	c f m		-ŋaŋkuŋ	-ŋarraŋ-paŋa-kaŋi -ŋarraŋ-pena-kaŋi	-ŋarraraŋ
1 ex	f m	-ŋarrkka	-ŋarraŋ-kapi	-ŋarraŋ-paŋa-kapi -ŋarraŋ-pena-kapi	-ŋarraŋ
2 f		-wiŋ	-nawarraŋ-kapi	-nawarraŋ-paŋa-kani -nawarraŋ-pena-kani	-nawarraŋ
.3 f		-ŋacaŋ -nøŋ	-pørran-kani	-pørraŋ-paŋa-kani -pørraŋ-pena-kani	-pørraŋ

number, gender and case. They commonly occur in attributive function, but may act as the head of an NP. Deictic forms are listed in Table 8 and discussed in 3.3.5.3.

Interrogative pronouns inflect for causal and purposive cases. Interrogative pronouns are described in 3.3.5.4; the indefinite pronoun in 3.3.5.5.

## 3.3.5.1 Free pronoun forms analysed.

- (a) First person is marked on all forms by  $\{\eta a \}$ .
- (b) All second person non-singular forms are marked by  $\{n-\}$ .
- (c) All singular forms are suppletive.
- (d) 3sg and plural forms are compounds of the morpheme
  {-mVyic} prefixed by /cen-/ for 3sg feminine, by /ca-/ for
  3sg masculine, and by /parr-/ for 3pl, e.g. (70), (71),
  (122). V of {-mVyic} is predictable: after /i/, /e/ or /ø/,
  the suffix-initial vowel is /i/. Elsewhere, it is /u/, e.g.
- (70) murran camuyic-pøttun digging stick 3sgmP-GEN It's his digging stick (AL:40).
- (71) møna cenmiyic-pøttun husband 3sgfP-GEN He's her husband (KM:3).
- (122) parrmuyic-tankarra mirak-parr-p-muyan 3plS-another dance-3plSFUT-FUT-danceFUTAUX These other women, they'll dance.
- (e) Dual forms combine a plural form with the enclitic dual

morpheme {-kani}, e.g. (123). Enclitic {-kani} may co-occur with the homophonous nominal derivational case-suffix {-kani} 'one of a group', e.g. (60), but the structural possibilities of each differ and ambiguity does not occur.

- (f) Trial forms combine a plural form with an enclitic trial marker, e.g. (123). The trial marker is a calque of the 3sg IMPL pronominal enclitic + the dual morpheme {-kani}. Trial allomorphs are gender-marked: /-penakani/ is marked masculine by {-n-}; /-panakani/ is marked feminine by {-n-}.

  (123) narr-pe-n-kani narrakani pinpin 1duexS-qo-PRES 1duP Binbin

wanpirri narrapanakani Wanbirri 1trfP

I'm going with Binbin; we're both (going) with Wanbirri (T4:15).

The following are examples of free pronoun usage:

- (i) <u>Case-inflections</u>: Free pronouns inflect for case, e.g.

  <u>Absolutive</u>. A free pronoun marked absolutive may function as the head of an NP in a locative question, e.g. (124), govern the person and number of a transitive verb, e.g. (126), or be the object of a transitive verb, e.g. (125).
- (124) nanan-Ø kalalk-Ø nace-Ø person-ABS black-ABS 1sgP-ABS I'm a blackfella (AL:31).
- (125) naka ka-pø-mene gace-g Who 3sgA.3sgmONF-hit-NF 1sgP-ABS Q: Who did he hit? A: Me.

- <u>Ergative</u>. Ergative-marking is not obligatory on free pronoun agents of transitive verbs, e.g.
- (126) kamanka, nace(-karran)-makka yan-pø-mene nothing 1sgP-ERG-PERF 1sgA.3sgmO-hit-NF No, it was me that hit him (JM:9).
- (ii) <u>Derivational suffixes</u>. Free pronouns take derivational suffixes, e.g.

### Place

(127) kane-nini-pente rak wa-nic-ene-nøn 2sgP-PLAC-now country 3A.30-wait for-NF-3sgmD

> nawen-palak-karran auntie-GEN-ERG

My auntie (father's sister) waited for him at your place (JR:26).

### Semblative

(128) nace-kuttun-karra
1sgP-SEMB-another
Same with me (T3:2).

Genitive. Free pronouns occur most commonly in genitive constructions, eg. (70)-(71), (73).

- (iii) <u>Function in discourse</u>. The use of a free third person pronoun to mark a new referent in narrative is obligatory, e.g.
- (129) cenmiyic kuca cenmiyic kacu 3sgfP that way 3sgfP this way

cenmiyic kacucu kan-par-a
3sgfP out of sight 3sgfSNF-walk-NF

X walked that way, Y walked this way, Z walked out of sight (T4:14).

- (iv) Reflexive pronouns. A free pronoun co-referential with the subject of its verb combines with the noun {nala} 'hand' to form a reflexive pronoun, e.g.
- (130) kappuk-na-puka nace-nala wash-1sgS-batheAUX 1sgP-hand REFL

I had a shower (JR:31).

(131) muttukka ka-yika-ŋ ka-par-a
car 3sgmSNF-go down-PRES 3sgmSNF-walkAUX-NF

camuyic-ŋala 3sgmP-hand REFL

The car is travelling of its own accord (JR:33).

Reflexive pronouns reinforce a verb marked with the derivational reflexive suffix, e.g.

- (132) kan-marr-ica cenmiyic-nala
  3sgfSNF-rub-REF 3sgfP-hand
  REFL
  She painted herself (BL:2).
- 3.3.5.2 <u>Pronominal enclitics</u>. In the corpus, pronominal enclitics occur most often as the final element of a verb, but may attach to a nominal, e.g. (190), or NP, e.g. (133)-(134), (143).
- (133) na-par-a-merre narra kamanka rak-manka-nacan 1sgS-walk-NF-again but nothing place-EMP-3sgfD I went again, but in vain. She wasn't there (AL:333).

(134) wik ka-wakaca-Ø pøce-pene-paŋa water 3sgSNF-come out-NF head-LOC-3sgfIMPL Water came out of her head (T2:50).

## 3.3.5.2.1 D pronominal enclitics.

- (i) Comparison of Tables 5 and 6 reveals the following similarities in the underlying stems of free pronouns and D pronominal enclitics:
- (a) First person forms share {na-}.

3sgmDeaud-FOC

- (b) All singular forms are suppletive.
- (c) Masculine gender is marked on  $3 \text{sgm} \{n \neq n\}$  by  $\{n-\}$ , e.g.
- (127), (135). Feminine gender is marked on 3sgf {nacan} by  $\{n_{-}\}$ , e.g. (133), (136). The same gender-marking occurs on the nominals denoting kin-terms cited in (1)-(14).
- (135) yinmek-pente nal-yerren-paka
  tomorrow-now sew-1plincA.3plO-stabFUTAUX

narra-mu narr-me-nøn perrekut 1plincS-sitFUTAUX 1plexS-tell-3sgmD whitefella IMP cawana-kak

'Let us sit and sew them first thing tomorrow ' we

(136) kane-nte ne-pe menen kan-me-nacan 2sgP-now 2sgSFUT-go edveg 3sgfSNF-tell-3sgfD IMP

said to that whitefella (T4:57).

'It's your turn to go for edible vegetables!' she told her (T2:16).

- (d) Non-singular D underlying stems are derivable from corresponding free forms by the addition of the oblique suffix {-(u)n}. The allomorph /-un/ occurs only in 1duincD. {-nank+un}. Elsewhere, the oblique suffix is realised as /-n/. Dual D forms are exemplified in (137), trial in (138), plural in (139).
- (137) wula mancic-mini ma-wakaca-Ø-nawarramkami year one-then 1sgS-arrive-NF-2duD

  It was last year, when I came to you both (JM:2).
- (138) mecem ka-ye-wene-pørranpanakani meat 3sgA.3sgONF-give-NF-3trfD He gives/gave meat to the three women.

The irregular verb {ce} 'give' is discussed in Appendix 2.

- (139) cinca nawulan-karran penta-pi-kirrwa-narraran 3sgmDevis woman-ERG 3A.3plOFUT-FUT-dig-1plincD That woman you can see will dig them for us all.
- (ii) D pronominal enclitics are used for the Recipient-like argument of ditransitive verbs, e.g. (63), (138), (140) and for oblique objects, e.g. (133), (135), (137), (139), (141).
- (140) nerren-mønce-narran 2plA.3plO-send-1plexD IMP Send them to us!

### 3.3.5.2.2 IMPL pronominal deictics.

### Table 7: IMPL pronominal enclitic inflections

	Singular	Plural
3m	-pena	)
3f	-paŋa	}-pørra

- (i) Dual forms are plural forms + {-kapi}
- (ii) Trial forms are plural forms + /-penakapi/ /panakapi/.
- (iii) Comparison of Tables 5 and 7 reveal the following similarities in the underlying stems of free pronouns and IMPL pronominal enclitics:
- (a) The free pronoun trial marker is a calque of a gender-marked allomorph of the 3sg IMPL pronominal enclitic plus the dual morpheme {-kani}.
- (b) 3sg free pronoun forms and IMPL pronominal enclitic allomorphs show similar but not identical gender-marking.
- (c) 3 trial free pronoun and IMPL pronominal enclitic forms are identical.
- (ii) IMPL pronominal enclitics denote peripheral arguments, which are implicated in the action/state expressed by their verb, e.g. (134), (142)–(143), (190).
- (142) kak-narr-ika narr-pe-n-cø-pena go away-1plexS-go down 1plexS-goAUX-PRES-CONT-3sgmIMPL We keep on going off down with him (T5:3).
- (143) kan-nuccica muc-karran-pana pampac-Ø 3sgfS-withhold wallaby-ERG-3sgfIMPL baby-ABS Wallaby withheld the baby girl (from her) (T2:34).

3.5.5.3 <u>Deictics</u>. Bachamal speakers distinguish three sets of third person deictics, according to their degree of distance from the speaker. Entities within reach are classed as <u>tangible</u> (tang), e.g. (73), those within hearing as <u>audible</u>, (aud), e.g. (299)-(301), those within view as <u>visible</u>, (vis), e.g. (29), (40), (139), (145), (148)-(149).

Deictics inflect for number, and mark gender in 3sg. Forms are listed in Table 8 and illustrated in (144)-(145), (148)-(149).

Deictics occur most often in attributive function, e.g. (21), (29), (48), (73), (75)-(76), (82), (97), (139), (149), but may occur independently of a nominal, in S function, e.g. (40), (49), (144), or in A function, marked ergative, e.g. (145).

Audible deictics most commonly occur cliticised by the focal clitic particle {-kak} to denote a previously mentioned entity, e.g. (49), (135), (144).

Table 8: Deictic inflections

	<u>tangible</u>	<u>audible</u>	<u>visible</u>
3sgm	ci	cawana	cica
3sgf	cin	cenena	cinca
3pl	perr	parrana	pørra

(144) karrunmalananan pampac cenmiyic-pøttun-kak beautiful baby 3sgfD-GEN-Foc memempena-pøttun muc-pøttun-kak cenulukpa porpoise-GEN wallaby-GEN-FOC no good

cenulukpa cenena-kak no good 3sgfDeaud-Foc

Porpoise's child was beautiful; wallaby's was no good, that one you've heard about was no good (T2:54).

- (145) cinca-karran kanpi-kirrwa-rran-narran menen 3sgfDevis-ERG 3A.3plONF-dig-HAB-1plexD edveg That woman always digs up edible vegetables for us.
- 3.3.5.4 <u>Interrogative pronouns</u>. Interrogative pronouns {naka} 'Who?' and {pinic} 'What?' always occur utterance initially. Both may take some nominal inflections.

  (i) {naka} 'Who?'.

### Absolutive

(146) naka-Ø kane
 who-ABS 2sgP
 Who are you? (JR:2).

Ergative Ergative-marking is not obligatory on interrogative pronoun agents, e.g.

(147) naka-(karraŋ) warrk-ka-me-Ø ya
who-ERG win-3sgSNF-beINCH I don't know
Q: Who won? A: I don't know.

#### Genitive

(148) naka-pøttun ci-kak
who-GEN 3sgmDetang-Foc
Who does this belong to? (JR:6).

- (ii) {pinic} 'What?' Interrogative {pinic} inflects to
  show dative, causal and instrumental case relations, e.g.
  Dative
- (149) ninic-cun-pe nen-pø-mene-makka pørra nanan what-DAT-ever 2sgA.3plO-hit-NF-PERF 3plDevis man Whatever did did you hit those men for? (JR:16).

### Causal

(37) ninic-makka kan-pette-Ø
what-CAU 3sgfSNF-die-NF
What did she die of? (AL:25).

#### Instrumental

- (150) pinic-cene wekpec mørrakmala-ka-wa-Ø what-INS basket make-2sgA.3sgONF-makeAUX-NF What are you making/did you make the basket out of?
- ({wa} 'make' is an irregular verb, discussed in Appendix 2).
- 3.3.5.5 <u>Indefinite pronoun</u>. In its indefinite sense, {pinic} may be attributive or predicative. If it is attributive, it precedes the noun it qualifies. Indefinite {pinic} occurs only in absolutive case, and only in lists, e.g. (151)-(152).
- (151) menen wunmarrac-Ø ninic-Ø menen-Ø melnmeln-Ø edvegncm long yam-ABS IND-ABS edveg-ABS cheeky yam-ABS

kanpi-kirrwa-Ø karr-pe-ŋ-kani
3A.3plONF-dig-NF 3duSNF-goAUX-PRES

They're both going and digging long yams, cheeky yams, any edible vegetable (T3:16).

(152) narran-Ø ka-pø-mene aw cecarec-Ø goanna-ABS 3sgA.3sgmONF-hit-NF or possum-ABS

pinic-Ø mecem-Ø røcan-Ø
IND-ABS meat-ABS bandicoot-ABS

Goanna she kills/killed, or possum, or bandicoot, any meat (T2:19).

3.4 Verb morphology. Bachamal verb stems are of two types. Type A bears tense-marked pronominal prefixes, inflects for tense, mood, aspect and polarity and may carry a reflexive/reciprocal derivational suffix (see 3.4.3.1-5). Type B bears no pronominal prefixes, does not inflect for tense, mood or polarity, and may not carry a derivational suffix. Type B stems may function as a complement to a verb, and bear nominal derivational suffixes (see 3.4.4).

The corpus of 271 verbs contains 134 simple verbs, consisting of Type A verb stems, and 137 compound verbs, in which a type A verb acts as an auxiliary to a type B verb stem. All verbs attested are listed in Appendix 1. Compound verbs are discussed in 3.4.5.

27 type A verb stems and 4 type B verb stems incorporate nominals in O function to form further verb stems, e.g. {pik-nipe} 'gaol', from {pik} 'rope' and type A verb root {nipe} 'hold'. See 3.4.7 for a discussion of incorporated nominals.

In Punupunu, (Tryon n.d.:35; 1974:193)), all transitive verbs, and most intransitive verbs are compound verbs with the structure:

Punupunu auxiliary verbs may occur independently as simple

verb stem + inflected intransitive auxiliary verb.

pronominal prefix + (tense) + stem + aspect.

intransitive verbs and have the structure:

Bachamal has as many simple as compound intransitive and transitive verbs; it is the converse of Punupunu in requiring for its compound transitive verbs the structure: type B verb stem + transitive type A verb as auxiliary.

In Bachamal, a simple or compound verb may be followed by one of five intransitive auxiliary verbs in an auxiliary verb complex, where the auxiliary specifies the bodily orientation of the co-referential subject and bears in addition to its own inflectional suffixes, aspectual suffixes and pronominal enclitics governed by the main verb.

Verbs may be classified according to transitivity (3.4.1), or conjugation (3.4.2). 3.4.3 analyses simple (=type A) verb structure; 3.4.4 describes type B verb stems; 3.4.5 describes compound verbs. 3.4.6 discusses auxiliary verb complexes; 3.4.7 deals with incorporated nominals. 3.4.8 describes the interrogative verb.

- 3.4.1 <u>Transitivity</u>. Transitivity is the notion of 'an A "doing something to" a patient' (Hopper and Thompson 1980:274). The pronominal prefixes to all Bachamal verbs mark participants; for almost all verbs, this equates with transitivity. The corpus contains single argument, two argument and three argument verbs. Verbs admit of three case-frames:
- (i) Intransitive: On 40% of verbs in the corpus, the pronominal prefix marks a single participant, the intransitive subject (S). Oblique objects are marked by a D pronominal enclitic, e.g. (137).
- (ii) Transitive: On the remaining 60% of verbs in the corpus, the pronominal prefix marks two arguments: transitive subject (A) and transitive object (O). If an agent nominal is overtly expressed, it is marked ergative, unless the sentence is counterfactual, or the agent is inanimate and the verb inflected for future tense.
  - 4% of transitive verbs are ditransitive, e.g. {ce} 'give, {kunme} 'bring', {ka} 'take', {mønce} 'send'. These verbs may be additionally marked for a third argument with a D pronominal enclitic denoting a human Recipient, e.g. (63), (138), (140), or oblique object, e.g. (139), (141).
  - (iii) Semitransitive: In 4% of transitive verbs, e.g.
    {purra} 'look for', {nic} 'wait for', the A has no effect on
    the patient, which is marked by a D pronominal prefix,
    although the pronominal prefix to the verb marks A and O,

e.g. (175) and an agent nominal is marked ergative, e.g. (127).

On the two argument verbs, {me} 'tell', {wunmice} 'tell lie to', {wukpice} 'call out to', a human third argument is marked by a D pronominal enclitic. On the verb {nuccica} 'withhold', an IMPL pronominal enclitic marks the (animate) object withheld. The presence of a pronominal enclitic on these semi-transitive verbs causes ergative case-marking on an agent nominal, but this is not cross-referenced on the pronominal verbal prefix, which marks a single participant only. The reason for this may lie in the low transitivity of the verbs in question; alternatively, these verbs may be in the process of changing their transitivity.

- 3.4.2 <u>Conjugations</u>. Verbs are marked for future or non-future tense, and, on the basis of these inflections, can be grouped into four conjugations. Conjugations are analysed in Table 9. Tense-inflections pattern as follows:
- (a) Future  $\{-p- + \text{stem} + -pa\}$  Conjugation 1  $\{-p- + \text{stem} + -an\}$  Conjugation 3  $(-p- + \text{stem} + -\emptyset)$  Conjugations 2,4.

The various realisations of the future tense morphemes are derived by the following ordered morphological rules:

Table 9: Verb	conjugations			
Conjugation no.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Total members:	41	36	46	148
% transitive:	100%	94%	8%	38.5%
monosyllabic members:	*pø 'hi†'	*ma 'pick up'	*ka 'fetch'	*can 'stand'
· · · · · · · · · · · · · · · · · · ·	*n 'see'	*rø 'cry'		*ye 'lie'
	*ci 'eat/drink'			mi 'sit'
	pa 'smash'			
	cê 'give'			
disyllabic members:				*ŋawe 'hear'
				*paŋka 'stab'
				*pønme 'smell'

Starred items are cognate with Dixon's putative proto-Australian verb roots (Dixon: 1980, 402-7; unpublished lecture notes, 1988).

By (M 2)  $w \longrightarrow \emptyset / p]_{px} \longrightarrow V$ 

# Vowel-insertion before monosyllabic verb stems

By (M 3a)  $\mathscr{Q}$  ----  $\forall$   $V_1/p]_{FUT}$  [stem  $CV_1$  #

# Vowel-insertion before polysyllabic verb stems

By (M 3b)  $\emptyset$  ----  $V_1/p]_{FUT}$  [non-labialC]<sub>stem</sub>  $V_1$ 

(b) Non-future stem + {-mene} Conjugation 1

stem +  $\{-n_ana\}$  Conjugation 2

stem +  $\{-e/a\}$  Conjugation 3

stem +  $\{-\emptyset\}$  Conjugation 4

e.g.

Conjugation 1 yan-tut-mene

1sgA.3sgmO-leave-NF
I leave/left him/it.

yan-pu-tul-pa
1sgA.3sgmO-FUT-leaveFUT-FUT
I will leave him/it.

Conjugation 2 yan-ma-nana

1sgA.3sgmO-pick up-NF
I pick/ed him/it up.

yan-pu-mu 1sgA.3sgmO-FUT-pick upFUT I will pick him/it up.

Conjugation 3 na-pinc-e
1sgS-climb up-NF
I climb/ed up.

na-p-pinc-an
1sgS-FUT-climb up-FUT
I will climb up.

# Conjugation 4

yan-kirrwa-Ø
1sgA.3sgmO-dig-NF
I dig/dug it.

yan-pi-kirrwa 1sgA.3sgmO-FUT-dig I will dig it.

The following processes explain the derivation of the surface forms of the four conjugations:

Conjugation 1 stem + NF = stem + -mene  

$$stem + FUT = -p - + stem + -pa$$

# Morpheme-realisation in future

Ordered M 2, M 3 and M 4 operate:

e.g.

### Exceptions

nic look after; wait for

pinc hang up

pirr chop

do not take -pa suffix.

# Adjustment

By (M 5) t ----> 
$$1 / _{\text{m}} [_{\text{FUTCM}}]$$
 pa

### Stem-vowel addition

By (M 6) 
$$\emptyset \longrightarrow e / c$$
  $\begin{cases} \\ \\ \\ \\ \\ \\ \end{cases} \end{cases}$   $\begin{cases} \\ \\ \\ \\ \\ \end{aligned} \end{cases}$   $\begin{cases} \\ \\ \\ \\ \end{aligned} \end{cases}$ 

# Morpheme-realisation in non-future

# Exceptional vowel-change in non-future

-ene]
$$_{\rm NF}$$
 ----> ine / pirr] $_{\rm stem}$  \_\_\_\_\_

e.g. (Irregular verbs are marked I)

stem + NF	stem + FUT	Gloss	
ci-nene	-pi-ci	eat	
ci-nene	-pi-ci	drink	(I)
n-ene	-pe-na	see	
ye-wene	-pe-ce-pe	give	(I)

pirr-ine	-p-pirr-e	chop
nic-ene	-pi-nic-e	look after
nicene	-pi-nice	wait for (I)
pinc-ene	-p-pinc-e	hang up
tørrp-mene	-pø-tørrp-pa	roast in sand
ţat-mene	-pa-tal-pa	bite
tut-mene	-pu-tul-pa	leave
cap-mene	-pa-cap-pa	stretch
cen-mene	-pe-cen-pe	put in
pø-mene	-pø-pø	hit
wara-mene	-pa-ra-pe	join
wu-mene	-pu-pa	spear
wuc-mene	-p-uc-pe	scold
wun-mene	-p-un-pe	throw

41 verbs are attested in Conjugation 1: the 18 simple verbs cited above + 10 further simple verbs formed from a type A verb stem + incorporated nominal; 11 compound verbs + 2 further compound verb formed from a type B verb stem + incorporated nominal. Conjugation 1 is listed in full in Appendix 1.

Conjugation 2 stem + NF = stem + -nana  

$$stem + FUT = -p - + stem + -\beta$$

# Morpheme-realisation in future

### Stem-vowel-addition

By (M 8) 
$$\emptyset$$
 ----- a/C]<sub>FUTstem conj 2</sub> # e.g. marr ----> p-marr-a <sub>FUT</sub> 'paint'

## Morpheme-realisation in non-future

# Exceptional vowel-change in non-future

36 verbs are attested for Conjugation 2; the 10 simple verbs cited above + 9 further simple verbs formed from a type A verb stem + incorporated nominal; 17 compound verbs.

Conjugation 2 is listed in full in Appendix 1.

Conjugation 3 stem + NF = stem + -e/a  
stem + FUT = -p- + stem + -(a)
$$\eta$$

## Morpheme-realisation in future

M 2 and M 3 operate, e.g.

### Exceptional vowel-change in future

par-a NF ----→ pur-i FUT walk

## Exceptional forms in future

#### e.g.

stem + FUT	Gloss
-pa-racc-an	go
-pi-cinpic-an	go in
-pa-cappay-an	stretch
-pi-yicc-aŋ	ask
-pe-y-aŋ	lie
-pa-ka-ŋ	take
-p-pinc-an	climb up
-p-pur-in	walk
-p-manc-an	get up
-p-ecc-an	give birth
-p-unc-an	defecate.
	-pa-racc-an -pi-cinpic-an -pa-cappay-an -pi-yicc-an -pe-y-an -pa-ka-n -p-pinc-an -p-pur-in -p-manc-an -p-ecc-an

46 verbs are attested for Conjugation 3: the 11 simple verbs cited above + 4 further simple verbs, formed from a type A verb stem + incorporated nominal; 22 compound verbs + 9 further compound verbs formed from a type B verb stem + incorporated nominal. Conjugation 3 is listed in full in Appendix 1.

Conjugation 4 stem + NF = stem + 
$$\emptyset$$
  
stem + FUT = -p- + stem

# Morpheme-realisation in future

M 2 and M 3 operate.

# Exceptions to M 3.

# Exceptional vowel-change in future

mi ----→ mu <sub>FUT</sub> sit

# Exceptional consonant-changes in future

pette ----> pere FUT die

panka ----→ paka FUT pierce

# Exceptional form in future

cana ----> can Fur stand

e.g.

stem + FUT	Gloss
-pu-turra	cook
-pi-ripe	hold (I)
-pi-rikka	sort
-pi-rina	fall, be born
-pe-cetpe	take out
-ра-ласа	return
-pa-can	stand
-pu-currka	jump
-pi-yika	come down
-pi-kirrwa	dig
-pa-kaca	bake
-pa-karrinmice	play
	-pu-turra -pi-ripe -pi-rikka -pi-rina -pe-cetpe -pa-naca -pa-can -pu-currka -pi-yika -pi-kirrwa -pa-kaca

pørrice -p-pørrice scratch pøme -p-pøme hug panpa -p-panpa be ignorant panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønce send mønpica -p-mønce speak werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unmice tell lie to wuka -p-uka tie up wukka -p-ukka copy	kapica	pa-kapica	discard
nawa -pa-nawa recognise nuccica -pu-nuccica withhold nuka -pu-nuka blow (I)  pe -p-pe go  pette -p-pere die  pønme -p-pønme smell; extin  pørrice -p-pørrice scratch  pøme -p-pøme hug  panpa -p-panpa be ignorant  panwica -p-panwica go to sleep  palama -p-palama cut  parrakka -p-parrakka pull  panyka -p-paka stab  mi -p-mu sit  me -pe-me tell, become  mønce -p-mønce send  mønpica -p-mønce send  mønpica -p-mara kick  werepice -p-erepice speak  wana -p-ana drown  wakaca -p-akaca arrive  wu grab (I)  wunme -p-unme deceive  wunmice -p-uka tie up  wukka -p-ukka copy	kunme	-pu-kunme	bring
nuccica -pu-nuccica withhold  nuka -pu-nuccica blow (I)  pe -p-pe go  pette -p-pere die  pønme -p-pønme smell; extin  pørrice -p-pørrice scratch  pøme -p-pøme hug  panpa -p-panpa be ignorant  panwica -p-panwica go to sleep  palama -p-palama cut  parrakka -p-parrakka pull  panka -p-mu sit  me -pe-me tell, become  mønce -p-mønce send  mønpica -p-mønce send  mønpica -p-mønce send  mønpica -p-mara kick  werepice -p-erepice speak  wana -p-ana drown  wakaca -p-akaca arrive  wu grab (I)  wunme -p-unme deceive  wunmice -p-unmice tell lie to  wuka -p-uka copy	ŋawe	-pa-ŋawe	hear
nuka -pu-nuka blow (I)  pe -p-pe go  pette -p-pere die  pønme -p-pønme smell; extin  pørrice -p-pørrice scratch  pøme -p-pøme hug  panpa -p-panpa be ignorant  panwica -p-panwica go to sleep  palama -p-palama cut  parrakka -p-parrakka pull  panyka -p-paka stab  mi -p-mu sit  me -pe-me tell, become  mønce -p-mønce send  mønpica -p-mønce send  mønpica -p-mara kick  werepice -p-erepice speak  wana -p-ana drown  wakaca -p-akaca arrive  wu grab (I)  wunme -p-unme deceive  wunmice -p-uka tie up  wukka -p-ukka copy	ŋawa	-pa-ŋawa	recognise
pe -p-pe go pette -p-pere die pønme -p-pønme smell; extin pørrice -p-pørrice scratch pøme -p-pøme hug panpa -p-panpa be ignorant panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønce send mønpica -p-mønjica swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka tie up wukka -p-ukka	nuccica	-pu-ŋuccica	withhold
pette	ŋuka	-pu-ŋuka	blow (I)
pønme -p-pønme smell; extin pørrice -p-pørrice scratch pøme -p-pøme hug panpa -p-panpa be ignorant panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-paka stab mi -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønce send mønpica -p-mønce speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-uka tie up wukka -p-ukka copy	pe	-p-pe	go
pørrice -p-pørrice scratch pøme -p-pøme hug panpa -p-panpa be ignorant panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønce send mønpica -p-mønce speak werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unmice tell lie to wuka -p-uka tie up wukka -p-ukka copy	pette	-p-pere	die
pøme -p-pøme hug panpa -p-panpa be ignorant panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønce swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-uka tie up wukka -p-ukka copy	pønme	-p-pønme	smell; extinguish
panpa -p-panpa be ignorant panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-paka stab mi -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønpica swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka copy	pørrice	-p-pørrice	scratch
panwica -p-panwica go to sleep palama -p-palama cut parrakka -p-parrakka pull panka -p-paka stab mi -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønpica swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka copy	pøme	-p-pøme	hug
palama -p-palama cut parrakka -p-parrakka pull panka -p-paka stab mi -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønpica swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka copy	panpa	-p-panpa	be ignorant of
parrakka -p-parrakka pull  panka -p-paka stab  mi -p-mu sit  me -pe-me tell, become  mønce -p-mønce send  mønpica -p-mønpica swallow  mara -p-mara kick  werepice -p-erepice speak  wana -p-ana drown  wakaca -p-akaca arrive  wu grab (I)  wunme -p-unme deceive  wunmice -p-unmice tell lie to  wuka -p-ukka copy	panwica	-p-panwica	go to sleep
panka -p-paka stab mi -p-mu sit me -pe-me tell, become mønce -p-mønce send mønpica -p-mønpica swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka copy	palama	-p-palama	cut
mi -p-mu sit  me -pe-me tell, become  mønce -p-mønce send  mønpica -p-mønpica swallow  mara -p-mara kick  werepice -p-erepice speak  wana -p-ana drown  wakaca -p-akaca arrive  wu grab (I)  wunme -p-unme deceive  wunmice -p-unmice tell lie to  wuka -p-uka tie up  wukka -p-ukka copy	parrakka	-p-parrakka	pull
me -pe-me tell, become mønce -p-mønce send mønpica -p-mønpica swallow mara -p-mara kick werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka copy	paŋka	-p-paka	stab
mønce-p-møncesendmønpica-p-mønpicaswallowmara-p-marakickwerepice-p-erepicespeakwana-p-anadrownwakaca-p-akacaarrivewugrab (I)wunme-p-unmedeceivewunmice-p-unmicetell lie towuka-p-ukatie upwukka-p-ukkacopy	mi	-p-mu	sit
mønpica-p-mønpicaswallowmara-p-marakickwerepice-p-erepicespeakwana-p-anadrownwakaca-p-akacaarrivewugrab (I)wunme-p-unmedeceivewunmice-p-unmicetell lie towuka-p-ukatie upwukka-p-ukkacopy	me	-pe-me	tell, become
mara -p-mara kick  werepice -p-erepice speak  wana -p-ana drown  wakaca -p-akaca arrive  wu grab (I)  wunme -p-unme deceive  wunmice -p-unmice tell lie to  wuka -p-uka tie up  wukka -p-ukka copy	mønce	-p-mønce	send
werepice -p-erepice speak wana -p-ana drown wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka tie up wukka -p-ukka copy	møŋpica	-p-møppica	swallow
wana         -p-ana         drown           wakaca         -p-akaca         arrive           wu          grab (I)           wunme         -p-unme         deceive           wunmice         -p-unmice         tell lie to           wuka         -p-uka         tie up           wukka         -p-ukka         copy	mara	-p-mara	kick
wakaca -p-akaca arrive wu grab (I) wunme -p-unme deceive wunmice -p-unmice tell lie to wuka -p-uka tie up wukka -p-ukka copy	werepice	-p-erepice	speak
wu          grab (I)           wunme         -p-unme         deceive           wunmice         -p-unmice         tell lie to           wuka         -p-uka         tie up           wukka         -p-ukka         copy	wana	-p-ana	drown
wunme-p-unmedeceivewunmice-p-unmicetell lie towuka-p-ukatie upwukka-p-ukkacopy	wakaca	-p-akaca	arrive
wunmice-p-unmicetell lie towuka-p-ukatie upwukka-p-ukkacopy	wu		grab (I)
wuka -p-uka tie up wukka -p-ukka copy	wunme	-p-unme	deceive
wukka -p-ukka copy	wunmice	-p-unmice	tell lie to
	wuka	-p-uka	tie up
ruknica nuknica call sut	wukka	-p-ukka	сору
wukpica -p-ukpica call out	wukpica	-p-ukpica	call out

148 verbs are attested for Conjugation 4: the 42 simple verbs cited above + 30 further verbs formed from a type A verb + incorporated nominal; 62 compound verbs + 14 further compound verbs formed from a type B verb stem + incorporated nominal. Conjugation 4 is listed in full in Appendix 1.

3.4.3 Type A verb structure. A simple Bachamal verb contains the following ordered elements (bracketed elements are optional):

$$1 + (2) + 3 + (4) + (5) + (6) + (7) + (8) + (9) + (10) + (11) + (12) + (13) + (14) + (15) + (16) + (17).$$

- 1 = pronominal prefix
- (2) = future tense prefix
- 3 = verb stem
- (4) = future conjugation marker
- (5) = non-future tense suffix
- (6) = reflexive/reciprocal suffix
- (7) = admonitory suffix
- (8) = present aspectual suffix
- (9) = negative suffix
- (10) = return aspectual suffix
- (11) = continuous aspectual suffix
- (12) = perfective aspectual marker
- (13) = habitual aspectual suffix
- (14) = purposive aspectual marker
- (15) = clitic particle
- (16) = clitic particle
- (17) = pronominal enclitic

Tense affixes were analysed in 3.4.2. Pronominal prefixes are described in 3.4.3.1. Modal affixes are described in 3.4.3.2, the polarity suffix in 3.4.3.3, aspectual affixes in 3.4.3.4, and the derivational suffix in 3.4.3.5.

- 3.4.3.1 <u>Pronominal prefixes</u>. Morphological and phonological rules referred to in this section are expressed and exemplified in sections 2:11-2:12.
- 3.4.3.1.1. <u>Pronominal prefixes to intransitive verbs</u>. Forms are listed in Table 10 and then analysed.

Table 10: Bound pronominal prefixes to intransitive verbs

	Non-future		<u>Future</u>	
1sg	•	ŋa-		
2sg	kanV-		Jun-	
3sgm	ka-		yv-	
3sgf	kan-		yVn-/yVc-	
1duinc		ŋaŋka-		
1duex		ŋarra-kani		
1plinc		narra-		
1plex		ŋarr-		
2pl	kaŋka-		nerr-	
3pl	karr-		parr-	

- (i) Dual forms, except 1duinc, are marked by the enclitic dual morpheme {-kapi}, e.g. (123), (151), (153).
- (153) parr-p-pur-in-kani
  3duSFUT-FUT-walkFUT-FUTCM
  They'll both go (AL:57).
- (ii) Trial forms are marked by the trial enclitic
  {-pVNakani}, e.g. (154).
- (154) parr-p-pur-in-penakani
  3trmSFUT-FUT-walkFUT-FUTCM
  The three men will go.
- (iii) Tense-marking is neutralised on first person forms.

(iv) Vowel alternation in 2sgSNF {kanV-} is predictable: Prefix-final V copies the vowel in the next syllable, e.g.

kanV-mi-Ø 2sgSNF-sit-NF kanV-me-Ø 2sgSNF-say-NF kanV-rø-na 2sqSNF-cry-NF

kanV-par-a

2sqSNF-walk-NF

kanV-wunc-e

2sqSNF-defecate-NF

kanimi you sit/sat

kapeme

you say/said

kanørøna you cry/cried

> kanapara

you walk/ed

> kanuwunce you defecate/d.

(v) 2sgFUT {pV-}; 3sgmFUT {yV-}; 3sgfFUT /yVp-/ ~ /yVc-/. Prefix V is predictable: If the vowel in the next syllable is /i/, /e/ or  $/\phi/$ , it is /e/; otherwise, it is /a/, e.g.

nV-p-yicc-an

2sgSFUT-FUT-ask-FUTCM

yVn-p-me

3sqfSFUT-FUT-say

yV-p-rø

3sqmSFUT-FUT-cry

2sgSFUT-FUT-go-FUTCM

yVn-p-wana

nV-p-racc-an

3sgfSFUT-FUT-drown

yV-p-wunc-an

> pepiyiccan (by M 3b)

you will ask

(by M 3a) > yenpeme

she will say

> yepørø

(by M 3a)

he will cry

> paparaccan (by M 3b)

you will go

> yanpana

(by M 2)

she will drown

yapuncan

(by M 2)

3sgmSFUT-FUT-defecate-FUTCM he will defecate

yVn-p-manc-an

yacmancan (by P 8, P 9)

3sgfSFUT-FUT-get up-FUTCM

3sgfSFUT-FUT-walk-FUTCM

yVn-p-pur-in

yacpurin

(by P 8, P 9)

she will walk.

she will get up

Table 11: Bound pronominal prefixes to non-future transitive verbs

	SINGUL	A R	D	UAL		PLUF	RAL	
1sgA	2sgA	3sgm/fA	1incA	1exA	1incA	1exA	2A	3A
1sg0	nen-	ŋan-					ეenpVrr−	ŋanpVrr-
2sg0 ŋan-		kana-		nerrkani	·	nerr-	, 14	nerr-
3sgmO yaŋ-	ka-	ka-	yaŋka-	y∀rrkani	yVrrV-	yVrr-	kaŋka-	karr-
3sgf0 yaŋaɲ-	kanca-	kan-	yaŋkan-	ŋarraŋkaŋi	yVrrVn-	ŋarran-	kaŋkan-	kanpVrr-
1duinc0		ŋaŋkanpV-/ŋaŋkat-						=3sgA
1duex0	net(pV)kani	ŋat(pV)kani					=2sgA	
1plinc0		ŋarranpV-/ŋarrat-						≖3sgA
1plex0	net(pV)-	ŋat(pV)-			e yet oo e		=2sgA	=3sgA
2p10 nVn-		nVnpV-/nV+-		nerrkani		nerr-	* · · · · · · · · · · · · · · · · · · ·	=3sgA
3p10 ŋan-	nen-	kanpV-/kat-	yaŋkVn-	ŋarrankaɲi	yVrrVn-	ŋarran-	nerren-	=3sgA

Table 12: Bound pronominal prefixes to future transitive verbs

	SINGULAR			DUAL		PLURAL			•
	1sgA	2sgA	3sgm/fA	1duincA	1due×A	1plincA	1plexA	2pIA	3p I A
1sg0		nen-	ŋan-					րenpVrr−	ŋanpVrr-
2sg0	ŋan-		ŋV−		nerrkani		nerr-		nerr-
3sgm0	yaŋ-	у٧-	yV-	yaŋka-	yVrrkani	yVrrV-	yVrr-	yeŋka-	yerr-
3sgf0	yaŋan-	yence-	yVn-/yVc-	yaŋkan-	yerrenkani	yVrrVn-	yVrrVn-	yeŋkan-	yenpVrr-
1duinc0 1duex0		netta-kani	ŋaŋkanta- ŋattakaɲi					=2sgA	=3sgA =3sgA
1plinc0 1plex0 2pl0 3pl0	nVn- ŋan-	netta- nen-	narranta- natta- nenta- penta	yaŋkVn-	nerrkani narrankani	yVrrVn-	nerr- narran-	=2sgA	=3sgA =3sgA =3sgA =3sgA

- 3.4.3.1.2 Bound pronominal prefixes to transitive verbs.
- (i) Non-future forms are listed in Table 11, future forms in Table 12. Forms neutralised for tense are enclosed in both tables. For dual forms, except those marking 1duincA, a verb is cliticised by the dual enclitic {-kani}, e.g. (178), (189), (237). For trial forms a verb is cliticised by the trial marker, e.g.
- (155) pørra-karran-kani net-pø-mene-m-panakani 3duDevis-ERG 3A.2trfONF-hit-NF-PRES Those two hit you three women (AL:31).
- (ii) 1sgA.3sgmOFUT /ya(n)-/

(iii) 1sgA.3sgfOFUT /yanan-/ ∼ /yanac-/

#### (iv) 1sgA.2plO/nVn-/

Prefix V is predictable: If the vowel of the next syllable is /i/, /e/ or /ø/, it is /e/; otherwise, it is /a/, e.g.

```
(v) 2sgA.3sgmOFUT /yV-/
```

Prefix V is predictable: If the vowel in the next syllable is /i/, /e/, or  $/\emptyset/$ , it is /e/, otherwise it is /a/, e.g.

yV-kirrwa > yekirrwa 2sgA.3sgmOFUT-hold Hold him/it!

yV-cetpe > yecetpe

yV-pø > yepø

2sgA.3sgmOFUT-hit Hit him!

yV-mara > yamara

2sgA.3sgmOFUT-kick Kick him/it!

yV-mu > yamu

2sgA.3sgmOFUT-pick upFUT Pick him/it up

### (vi) 3sgA.3sgmONF /ka-/.

### (vii) 3sgA.3sgfOFUT $/yVp-/\sim/yVc-/$

Prefix V is predictable: If the vowel of the next syllable is /i/, /e/ or  $/\emptyset/$ , it is /e/; otherwise it is /a/, e.g.

yVn-p-nipe > yenpiripe (by M 3b)

3sgA.3sgfOFUT-FUT-hold s/he will hold her

yVn-p-cetpe > yenpecetpe (by M 3b)

3sgA.3sgfOFUT-FUT-take out s/he will take her out

yVn-p-na > yenpena (by M 3b)

3sgA.3sgfOFUT-FUT-see s/he will see her

yVn-p-tal-pa > yanpatalpa (by M 3b)

3sgA.3sgfOFUT-FUT-biteFUT-FUTCM s/he will bite her

yVn-p-kunme > yanpukunme (by M 3b)

3sgA.3sgfOFUT-FUT-take s/he will take her

yVn-p-pirr-e > yecpirre (by P 8, P 9)

3sgA.3sgfOFUT-FUT-chop-FUT s/he will chop her up

yVn-p-pønme > yecpønme (by P 8, P 9)

3sgA.3sgfOFUT-FUT-smell s/he will smell her

yVn-p-palama > yacpalama (by P 8, P 9)

3sgA.3sgfOFUT-FUT-cut s/he will cut her

yVn-p-mu > yacpumu (by M 3a, P 8, P 9)

3sgA.3sgfOFUT-FUT-pick upFUT s/he will pick her up.

(viii) 1duincA.3plO NF=FUT /yankVn-/
Prefix V is predictable: If the vowel of the next syllable
is /i/, /e/, or /ø/, it is /e/; otherwise, it is /a/, e.g.
yankVn-kirrwa-Ø > yankenkirrwa

1duincA.3plO-dig-NF
yankVn-cetpe-Ø
1duincA-3plO-take out-NF
yankVn-pø-mene
1duincA.3plO-hit-NF
yankVn-panka-Ø
1duincA.3plO-stab-NF

yankVn-turra-Ø

1duincA.3plO-cook-NF

you and I dig/dug them
yankencetpe
you and I take/took them out

yankenpømene you and I hit them

> yankanpanka
you and I stab/bed them

> yankanturra
you and I cook/ed them.

(ix) 1plexA.3sgmO NF=FUT /yVrr-/
 1plincA.3sgO NF=FUT /yVrrV-/
 1plincA.3sgfO NF=FUT /yVrrVn-/
 1plincA.3plO NF=FUT /yVrrVn-/

Prefix V is predictable: If the vowel in the next syllable is /i/, /e/, or  $/\emptyset/$ , it is /e/; otherwise it is /a/, e.g.

yVrr-kirrwa-Ø
1plexA.3sgmO-dig-NF
yVrr-cetpe-Ø
1plexA.3sgmO-take out-NF

> yerrkirrwa
we, excluding you, dig/dug it

yerrcetpe
we, excluding you, take/took
it out

yVrr-pø-mene 1plexA.3sgmO-hit-NF yVrr-mara-Ø 1plexA.3sgmO-kick-NF

> yerrpømene
we, excluding you, hit him/it

> yarrmara
we, excluding you, kick/ed him

yVrr-turra-ø > yatturra (by P 1) 1plexA.3sgmO-cook-NF we, excluding you, cook/ed it yVrrV-rikka-Ø > yerrerikka 1plincA.3sgmO-sort-NF we, including you sort/ed it yVrrV-n-ene > verrenene 1plincA.3sgmO-see-NF we, including you, see/saw him yVrrV-pø-mene yerrepømene 1plincA.3sgmO-hit-NF we, including you, hit him yVrrV-mara-Ø yarramara 1plincA.3sqmO-kick-NF we, including you, kick/ed him yVrrV-turra-Ø yarraturra 1plincA.3sgmO-cook-NF we, including you, cook/ed it yVrrVn-p-nipe > yerrenpiripe (by M 3b) we, including you, will hold her 1plincA.3sqfO-FUT-hold yVrrVn-p-mara > yarracmara (by P 8, P 9) we, including you, will kick her 1plincA.3sgfO-FUT-kick (by M 2) yVrrVn-p-wu-pa yarranpupa 1plincA.3sgfO-FUT-spear-FUTCM we, including you, will spear her

yVrrVn-p-kirrwa
1plincA.3plO-FUT-dig
yVrrVn-p-mara
1plincA.3plO-FUT-kick
yVrrVn-p-turra
1plincA.3plO-FUT-cook

- > yerrenpikirrwa (by M 3b)
  we, including you, will dig them
- > yarranmara (by P 9)
  we, including you, will kick them
- > yarranputurra (by M 3b)
  we, including you, will cook them

(x) 2plA.1sgONF=FUT /nenpVrr-/
3plA.1sgONF=FUT /nanpVrr-/
3plA.3sgfONF /kanpVrr-/
3plA.3sgfOFUT /yenpVrr-/

Prefix V copies the vowel in the next syllable, e.g.

møn-nenpVrr-tørrp-mene > møn-nenpøttørrpmene (by P 1)

buttocks-2plA.1sgO-roast-NF you push/ed me.

A trill assimilates to a following retroflex stop by P 1; prefix-final V then takes on retroflex colouring before the

retroflex stop, by allophonic specification rule 6, e.g.

nanpVrr-tat-mene 3plA.1sgO-bite-NF kanpVrr-tut-mene 3plA.3sgfONF-leave-NF

- nanpattatmene [nanbättatmεnε] they bit/e me
- > kanputtutmene [kanbüttutmene] they leave/left her.
- (xi) 3A.1duincONF /nankanpV-/ ~ /nankat-/ 3A.1plincONF /marranpV-/ ~ /marrat-/ /kanpV-/ ~ /kat-/ 3A.3plONF

By M 11b, prefix-final V copies the vowel in the next syllable, e.g.

kanpV-yi-na 3A.3plONF-put down-NF kanpV-cen-mene 3A.3plONF-put inside-NF møn-nankanpV-tørrp-mene buttocks-3A.1duincONF-roast-NF s/he/they push/ed you and me kanpV-kapica-Ø 3A.3plONF-throw away-NF kanpV-turra-Ø 3A.3plONF-cook-NF nankanpV-wuka-Ø 3A.1duincONF-tie-NF nankanpV-pø-mene 3A.1duincONF-hit-NF narranpV-palama-Ø 3A.1plincONF-cut-NF nankanpV-marr-ana 3A.1duincONF-paint-NF narranpV-mara-Ø 3A.1plincONF-kick-NF kanpV-pa-na 3A.3plONF-smash-NF

kanpV-ma-nana

3A.3plONF-pick up-NF

- kanpiyina s/he/they put them down
- kanpecenmene s/he/they put them inside
- møn-nankanpøtørrpmene
- kanpakapica

s/he/they throw/threw them away kanpuţurra

s/he/they cook/ed them

- ŋankanpuka (by M 2) s/he/they tie/d you and me up
- nankatpømene (by M 11a) s/he/they hit you and me
- narratpalama (by M 11a) s/he/they cut us, including you
- nankatmarrana (by M 11a) s/he/they paint/ed you and me
- (by M 11a) narratmara s/he/they kick/ed us, incl. you
- (by M 11a) katpana s/he/they smash/ed them
- katmanana (by M 11a) s/he/they pick/ed them up.

2A.1plexONF net(pV)-3A.1plexONF nat(pV)-By M 12b, prefix-final V copies the vowel in the next syllable, e.g.

natpV-nipe-Ø

3A.1plexONF-hold-NF

netpV-n-ene

2A.1plexONF-see-NF

møn-natpV-tørrp-mene

2A.1plexONF-take-NF

netpV-wunme-Ø

netpV-ka-nca

2A.1plexONF-lie-NF

2A.1plexONF-cut-NF

netpV-palama-Ø

netpV-marr-ana

2A.1plexONF-paint-NF

natpiripe

s/he/they hold/held us, not you

> netpenene

you see/saw us

møn-natpøtørrpmene

buttocks-3A.1plexONF-roast-NF s/he/they push/ed us, not you

> netpakanca you take/took us

> netpunme (by M 2)

you lie/d to us

> netpalama (by M 12a)

you cut us

> netmarrana (by M 12a) you paint/ed us.

(xiii) 3A.2plONF /nVnpV-/  $\sim$  /nVt-/

If the vowel in the next syllable is /i/, /e/, or  $/\phi/$ , the first V of the prefix is /e/, otherwise it is /a/. By M 12b, prefix-final V copies the vowel in the next syllable, e.g.

nVnpV-nipe-Ø

3A.2plONF-touch-NF

nVnpV-n-ene

3A.2plONF-see-NF

møn-nVnpV-tørrp-mene

s/he/they touch/ed you mob

> nenpenene

nenpiripe

s/he/they see/saw you mob

møn-nenpøtørrpmene >

buttocks-3A.2plONF-roast-NF s/he/they push/ed you mob

nVnpV-ka-nca

3A.2plONF-take-NF

nVnpV-mara-Ø

3A.2plONF-kick-NF

nVnpV-kunme-Ø

3A.2plONF-fetch-NF

nVnpV-wunme-Ø

3A.2plONF-lie-NF

> nanpakanca s/he/they take/took you mob

> natmara

(by M 12a)

s/he/they kicked you mob.

> nanpukunme

s/he/they fetch/ed you mob

natpunme

(by M 12a)

s/he/they lie/d to you mob.

- 3.4.3.1.3 Relationship between pronominal prefix forms.
- (i) Tense is neutralised on prefixes marking 1sg, 1duinc, and 1plinc in A or O function.
- (ii) All prefixes marking 3sgfO show a laminal nasal, e.g.

```
NF=FUT
        1sqA.3sqf0
                          yanan-
NF
        2sgA.3sgf0
                          kanca-
                          yence-
FUT
        3sqA.3sqf0
NF
                          kan-
FUT
                          yVn-
NF=FUT
        1duincA.3sgf0
                          yankan-
NF=FUT
        1plincA.3sgfO
                          yVrrVn-
NF
        1plexA.3sgf0
                          narran-
FUT
                          yVrrVn-
NF
        2plA.3sgf0
                          kankan-
FUT
                          yenkan-
        3plA.3sgf0
NF
                          kanpVrr-
FUT
                          yenpVrr-.
```

- (iii) The following prefixes are related:
- (a) 3sqA.2sgONF {kana-} derives from 2sgSNF {kanV-};
- (b) 3sgA.3sgONF {ka-/kap-} derive from 3sgSNF {ka-/kap-};
- (c) 3sgA.2sgOFUT {pV-} derives from 2sgSFUT {pV-};
- (d) 3sgA.3sgOFUT {yV-/yVn-} derive from 3sgSFUT {yV-/yVn-};
- (e) 2A.1plexONF {pet(pV)-} derives from 2sgSFUT {pV-} +
  -t(pV)-;
- (f) 2A.1plexOFUT {petta-} derives from 2plSFUT {perr-} +
  -ta- by P 1;
- (g) 3A.1duincONF {nankanpV-/nankat-} derives from 1duincS
  {nanka-} + -npV-/-t-;
- (i) 3A.1plincONF (narranpV-) derives from 1plincS {narra-} +
  -npV-;
- (j) 3A.3plONF {kanpV-/kat-} derives from 3sgSNF {ka-} +
  -npV-/-t-;
- (k) 3A.1duincOFUT {nankanta-} derives from 1duincS {nanka-}
  + -nta-;

- (1) 3A.1plincOFUT {ŋarranta} derives from 1plincS {ŋarra-} +
  -nta-;
- (m) 3A.1plexOFUT {natta-} derives from 1plexS {narr-} +
   -ta- by P 1.
- 3.4.3.2 <u>Mood</u>. Type A verbs distinguish imperative, indicative and admonitory moods. Imperative mood is used to express positive imperatives, indicative mood to express declarative sentences and prohibitions, admonitory mood to express admonitions.

In imperative mood, the verb stem is inflected for future tense. It carries no future prefix and may be followed by a limited range of aspectual markers, and the reflexive/reciprocal suffix (REF/REC).

In indicative mood, the verb is fully inflected for tense, aspect and polarity.

In admonitory mood, the admonitory suffix (ADM) is added to a verb stem inflected for future tense, but bearing a non-future pronominal prefix. This suffix may be preceded by the reflexive/reciprocal suffix and followed by a limited range of aspectual suffixes.

(i) <u>Imperative mood</u>. Positive imperatives have the following structure:

(type B verb stem + prnpx + vbstem + (FUT CM) + (REF/REC) +
 (ASPECT) + (prnsx)

Pronominal prefix and verb stem are future forms or neutralised for tense, e.g.

nV-pe 2sgSFUT-go nerr-pe 2plSFUT-go nanka-pe 1duincS-go narra-pe 1plincS-go yV-mara 2sgA.3sgmOFUT-kick yenka-mara 2plA.3sgmOFUT-kick yence-tulpa 2sgA.3sgfOFUT-leave nen-pørrice 2sgA.1sgO-scratch nVn-mu 2sgA.3plO-pick upFUT pilk-yence-pø slap-2sqA.3sqfOFUT-hit yanken-kirrwa 1duincA.3pl0-dig nerren-yu

2plA.3plO-put downFUT

pepe Go! perrpe Go, you mob! nankape Let's both go narrape Let's all go! yamara Kick him/it! yenkamara Kick him/it, you mob! yencetulpa Leave her alone! nenpørrice Scratch me! nanmu Pick them up! pilk-yencepø Slap her! yankenkirrwa

Let's both dig them!
> \_nerrenyu
Put them down, you mob!

In a continuative imperative, the verb may be preceded or followed by the free particle {pupuy} Go!, e.g.

(156) pupuy ye-kirrwa

Go! 2sgA.3sgmOFUT-dig

IMP

Go on digging! (AL:111).

If the action is to be continued indefinitely, the continuous aspectual suffix  $\{-c\emptyset\}$  follows the verb stem, e.g.

- (158) ya-marra-cø pupuy
  2sgA.3sgmOFUT-paint-CONT Go!
  IMP
  Keep painting it! (AL:301).

If the continuative imperative forms part of an auxiliary verb complex, the complex-final auxiliary verb carries the continuous aspectual suffix governed by the main verb, e.g.

An imperative may be marked with the 'return' suffix {-parra}, e.g. (47).

For a reflexive or reciprocal imperative, the reflexive/
reciprocal suffix is added to the verb stem, deriving an
intransitive verb. The pronominal prefix marks S function.
Reflexive imperatives only are followed by a co-referential
reflexive pronoun, e.g.

nVrr-pørrice-cica nawarra-nala Scratch yourselves!

2plSFUT-scratch-REF 2plP-hand

IMP REFL

(ii) <u>Indicative mood</u>. In indicative mood, a verb is fully inflected for tense, aspect and polarity. It is used to express declarative sentences and prohibitions. This

section describes the morphology of prohibitions.

Prohibitions are of two types. Type 1 is expressed thus:
The verb-phrase is prefaced by the free negative particle {nakulø} 'not'. A pronominal prefix marked future or neutralised for tense precedes a future prefix which precedes a verb stem marked future or neutralised for tense. For a reflexive/reciprocal prohibition, the verb stem is suffixed by the reflexive/ reciprocal suffix {-cica}. In a continuative prohibition, the verb stem is suffixed by the continuous aspectual suffix {-cø}, e.g.

- (160) nakulø nerr-p-pe-kani Neg 2duSFUT-FUT-go Don't you two go!
- (161) ŋakulø ya-p-mara
  Neg 2sgA.3sgmOFUT-FUT-kick
  Don't kick him!
- (162) nakulø yence-pø-pø-cø

  Neg 2sgA.3sgf0FUT-FUT-hit-CONT

  Don't keep hitting her!
- (163) nakulø nerren-pu-yu

  Neg 2plA.3plO-FUT-put downFUT

  Don't put them down!
- (164) nakulø kutti-nerr-p-uc-pe-cica-kani

  Neg fight-2duSFUT-FUT-scoldAUX-FUTCM-REC

  Don't you two fight each other!

Prohibition type 2 is expressed as follows:

The pronominal prefix to the verb stem is marked for nonfuture or tense-neutral. It immediately precedes the verb

stem, which is marked for future or tense-neutral and is followed by a non-future tense suffix, present aspectual marker and negative suffix  $\{-ku \rfloor \emptyset\}$ , e.g.

- (165) kanka-pe-Ø-n-kulø-kani 2duSNF-go-NF-PRES-Neg Don't both go!
- (166) ka-mara-Ø-ŋ-kulø

  2sgA.3sgmONF-kick-NF-PRES-Neg

  Don't hit him !
- (167) kanca-pø-mene-n-kulø

  2sgA.3sgfONF-hit-NF-PRES-Neg

  Don't hit her!
- (168) penput-tut-mene-n-kulø

  2plA.1sgO-leave-NF-PRES-Neg

  Don't leave me behind! (AL:400)

The negative suffix {-kulø} may be attracted from its usual position to encliticise a sentence-initial adverb, e.g.

- (169) wurak-kulø kana-naca-m-parra
  near-Neg 2sgSNF-come-PRES-RET
  Don't come back near (me)! (AL:93).
- (iii) Admonitory mood. Admonitions have the following structure:

A pronominal prefix marked non-future or tense neutral is followed by the future tense prefix, which is followed by a verb stem marked future or tense-neutral. This is followed by the admonitory suffix {-NV1rV1} and the 'obligated' clitic particle {-pakkacca}. In reflexive/reciprocal admonitions, the reflexive/reciprocal suffix comes between verb stem and admonitory suffix, e.g. (176).

In continuative admonitions, the admonitory suffix is followed by the continuous aspectual suffix.

Admonitory suffix: {-nV, rV, }

### Morpheme-realisation

$$\left\{ \begin{array}{ccc} \text{(M 13b)} & \text{V}_1 & ---- \\ & & \text{\emptyset} \end{array} \right\}_{\text{vbstem}} \left[_{\text{ADMsx}} & ----- \\ & & \text{a} \end{array} \right]$$

(M 13c) 
$$\begin{bmatrix} \\ ADMsx \end{bmatrix}$$
  $\begin{bmatrix} nV_1 \\ ---- \end{pmatrix}$   $\begin{bmatrix} y \\ k \end{bmatrix}$   $\begin{bmatrix} V_1 \\ V_2 \end{bmatrix}$   $\begin{bmatrix} V_1 \\ V_3 \end{bmatrix}$ 

(170) nakulø kane-pø-rø-nere-kkacca 2sgSNF-FUT-cry-ADM-obl Neg You shouldn't cry/ have cried (AL:307).

After a host-final vowel, the initial CV of the clitic particle {-pakkacca} elides.

(171) nana-yan-pe-cetpe-re-kkacca split-1sgA.3sgO-FUT-take out-ADM-obl I should split/have split it (AL:308). (172) nal-ka-p-paka-ra-kkacca sew-2sgA.3sgONF-FUT-stabFUTAUX-ADM-obl

> kana-p-mu-nara 2sgSNF-FUT-sitFUTAUX-ADM

You ought to sit and sew it/have sat and sewn it (AL:337).

- (173) ka-p-mu-nara-kkacca
  3sgA.3sgmONF-FUT-pick upFUT-ADM-obl
  She should pick/have picked him/it up (AL:309).
- (174) na-pe-yan-ara-kkacca narra kamanka
  1sgS-FUT-lieFUT-ADM-obl but nothing
  I should have lain down, but I didn't (AL:441).

A pronominal enclitic is verb-final, e.g.

(175) wa-p-purr-a-nara-kkacca-nøn
1sgA.3sgmO-FUT-look for-FUT-ADM-obl-3sgmD
I ought to look/have looked for him.

Irregular verb {purra} 'look for' is analysed in Appendix 2.

In a negative admonition, the clitic particle  $\{-pakkacca\}$  may cliticise the sentence-initial free negative particle  $\{pakulg\}$ , e.g. (176)-(177).

(176) nakulø-kkacca nak-nanka-p-uc-pica-nara

Neg-obl mouth-lduincS-FUT-scold-REC-ADM

We ought not to kiss/have kissed each other.

In continuative admonitions, the admonitory suffix is followed by the continuous aspectual suffix, e.g.

(177) nakulø-kkacca kankac-p-pø-nere-cø

Neg-obl 2plA.3sgfONF-FUT-hit-ADM-CONT

You mob shouldn't keep hitting/have kept hitting her!

- 3A.3plO allomorph /kanta-/, 3A.3duO /kanta--kani/ and 3A.3trO /kanta--pVNakani/ occur only in admonitions, e.g.
- (178) pellem kanta-p-u-pa-ra-kkacca-kani
  thigh 3sgA.3duONF-FUT-spear-FUTCM-ADM-obl
  He ought to spear/have speared the two of them
  in the thigh (AL:311).
- 3.4.3.3 Polarity. Positive sentences bear no marker; negative sentences are marked with the negative particles {ŋakulø}, or {kamaŋka} or the negative suffix {-kulø}, which occurs only in type 2 prohibitions, e.g. (165)-(169).
- 3.4.3.4 Aspect. Bachamal distinguishes six aspectual markers:

{-m-} Present

{-parra} Return

{-cø} Continuous

{-makka} Perfective

{-nun} Purposive

{-rran} Habitual

A verb may carry any one aspectual marker, or none, or a combination of those which co-occur. Present, purposive and habitual markers are mutually exclusive. Purposive, habitual and perfective markers are mutually exclusive. There are at least the following combinations of aspectual markers:

present before any or all of return, continuous, perfective;

continuous after any or all of present, return;

perfective after any or all of present, return, continuous;

return after present, but before other aspectual markers.

{-m} marks an event or action as happening at the same time as the utterance, except when followed by the perfective suffix, when it marks an action as having been completed, or by the continuous and perfective suffixes, as in (188), when it marks an action as having been in progress.

The present suffix always follows the non-future tense suffix, and co-occurs most often with the clitic particle {-pente} 'now', e.g. (19), (179). {-m} may be followed by the return suffix, e.g. (66), (96), (169), by the perfective and/or continuous suffixes, e.g. (180), (188), by the negative suffix, e.g. (165)-(168), and by a pronominal enclitic, e.g. (180).

- (179) pørra kak-pente-karr-pe-m
  3plP leave-now-3plSNF-go-PRES
  They're going now (AL:410).
- (ii) Return {-parra}. {-parra} marks direction back to the location of the speaker on verbs inflected for future or non-future tense and is attested in declarative sentences, e.g. (66), (96), (181), in prohibitions, e.g. (169), and on

a verb inflected for imperative mood, e.g. (47). {-parra} may be followed by compatible clitic particles, or a pronominal enclitic, e.g. (96). On verbs inflected for non-future tense, {-parra} follows a homorganic allomorph of the present aspectual suffix and may itself be followed by the continuous and/or perfective suffixes. Unless preceded by the present suffix, {-parra} may be followed by the purposive or habitual suffixes.

- (96) ka-wukpica-Ø ka-caŋa-Ø-m-parra-nøŋ
  3sgmSNF-call out-NF 3sgmSNF-standAUX-NF-PRES-RET-3sgmD
  He stood up and called back to him (T6:10).
- (181) narr-pente na-pa-naca-parra-nun-pakka later-now lsgS-FUT-come-RET-PUR-re I really will come back later.
- (iii) Continuous  $\{-c\emptyset\}$ .  $\{-c\emptyset\}$  marks action in progress. On verbs inflected for non-future tense, it is always preceded by a homorganic allomorph of the present aspectual suffix  $\{-m\}$ , e.g. (44), (180), (182), (185).
- (182) penterr-ka-yi-na-n-cø sweet-3sgA.3sgmONF-makeCAUS-NF-PRES-CONT He's in the process of sweetening it (AL:50).
- $\{-c\emptyset\}$  may co-occur with the future tense affix in declarative sentences, e.g. (183)-(186), when it implies that the intended action/state will be continuous, or in type 1 prohibitions, e.g. (162). On a verb inflected for imperative mood, it marks a continuative imperative, e.g. (157)-(159).  $\{-c\emptyset\}$  may be followed only by the perfective marker, e.g. (188) and by compatible clitics, e.g. (180).

- (183) penta-pu-turra-cø kak-parr-p-pe-cø

  3A.3plOFUT-FUT-cook-CONT leave-3plSFUT-FUT-go-CONT

  They'll be cooking it and going away later (AL:77).
- (184) deli yan-pu-turra-nun na-p-mu-cø
  Wait! lsgA.3sgmO-FUT-cook-PUR lsgS-FUT-sitFUT-CONT
  Wait! I'm going to be sitting down to cook it (AL:76).

In the auxiliary complexes (185)-(186),  $\{-c\emptyset\}$  is governed by both verbs, but cliticises only the complex-final auxiliary.

- (185) karr-pø-mene-n karr-pe-n-cø
  3plSNF-hit-NF-PRES 3plSNF-goAUX-PRES-CONT
  They keep hitting him as they go (AL:52).
- (186) pipere-nun-pente yan-pa-nawe ear-DAT-now 1sgA.3sgmO-FUT-hear

na-p-pe-cø mipe kamanka
1sgS-FUT-go eye nothing

I'm going to keep listening with my ears. My eyes are useless (T3:49).

(iv) Perfective {-makka}. This marker signals that the action or state expressed by a verb inflected for non-future tense has been completed, e.g. (37), (42), (187)-(192). It is homophonous with the nominal Ablative/Causal case-suffix (see 3.3.1). Perfective {-makka} regularly follows the non-future tense suffix, e.g. (187), (189) and may follow the present, continuous, and return aspectual suffixes, e.g. (188). Perfective {-makka} may be followed only by compatible clitics, e.g. (187) and (189).

- (187) ŋarrat-mac-ene-makka-kka
  3A.1plincONF-scare-NF-PERF-re
  S/he/they were really scared of us all (AL:53).
- (188) karr-pe-n-cø-makka-menen-pøce-pøcce
  3plSNF-goAUX-PRES-CONT-PERF-edveg-head-carry
  They've been going, carrying the edible vegetables
  on their heads (T3:23).
- (189) nerr-pø-mene-makka-kani 1duexA.20-hit-NF-PERF The two of us hit you (AL:70).

Perfective {-makka} may be attracted from its usual position to cliticise a sentence- initial nominal, eg. (190), (204), (213).

(190) cinca-karran-makka yenere-kat-ma-nana 3sgfDevis-ERG-PERF steal-3A.3plONF-pick upAUX-NF

manac-pena
chest-3sgmIMPL

That woman stole them in front of him (JR:29).

Perfective {-makka} commonly cliticises a sentence-initial temporal adverb with non-future reference, e.g.

- (191) nurraca-makka wørran nulkpara nanpat-tat-mene night-PERF mosquito small pl 3plA.1sgO-bite-NF Tiny mosquitoes bit me last night (AL:57).
- (192) pelappuy-makka kat-turra-Ø-n early-PERF 3A.3plONF-cook-NF-PRES

(v) Purposive 
$$\{-\text{nun}\}$$
  $\longrightarrow$   $\left\{ /-C_1 \text{ un} / C_1 \right\}$   $\left\{ /-\text{nun} / C_1 \right\}$ 

The aspectual purposive marker is homophonous with the nominal Dative case-suffix (see 3.3.1). Purposive {-nun}} marks action intended to secure a goal, e.g (193)-(199) and regularly occurs suffixed to a verb inflected for declarative or imperative mood, when it may be followed only by compatible clitics, e.g. (194)-(196).

- (193) tarranmalan-nan-pu-yu-nun cool-1sgA.2sgO-FUT-makeFUTCAUS-PUR I'll make you cool (KM:32).
- (194) na-pe-me-nun-pe na-p-pe 1sgS-FUT-become-PUR-ever 1sgS-FUT-goAUX

nace memempena 1sgP porpoise

As for me, I'm going to become porpoise for ever!

- (195) ye-p-pere-nun-pakka yakkuy
  3sgmSFUT-FUT-dieFUT-PUR-re Probably!
  Q: Is he really going to die? A: Probably! (JR:21)
- (196) panta-pi-rime-nun-pente-win wik

  3A.30FUT-FUT-fetch-PUR-now-2sgD water

  They'll bring you back water (AL:76).

Purposive {-nun} marks a complement, e.g.

(197) mipe cica yan-cetpe-nun eye 3sgmDevis 1sgA.3sgmO-take out-PUR

na-me-n-kak
1sgS-try-PRES-Foc
I'm trying to take that thing out of my eye (T3:49).

Purposive {-nun} may cliticise a verb-initial type B verb stem, e.g. (198)-(199).

- (198) kappuk-kun-na-p-puka yinmek bathe-PUR-1sgS-FUT-wash tomorrow I'll bathe tomorrow (JR:14).
- (199) kak-kuŋ-pente-ne-pe
   leave-PUR-now-2sgSFUT-goAUX
   IMP
   Go away right now! (JR:13)
- (vi) <u>Habitual</u> {-rraŋ}. {-rraŋ} marks as habitual the state/action expressed by a verb inflected for future or non-future tense, e.g. (28), (200)-(203). It follows tense inflections, and the return aspectual suffix and may itself be followed only by compatible clitics.
- (200) calkma manac ne-p-pe-rran bad heart 2sgSFUT-FUT-go-HAB You'll always be sorry (AL:81).
  - (201) cenmiyic nak-<u>ssh</u>-ka-me-rran 3sgfP mouth-ssh-3sgA.3sgmONF-say-HAB

memerencarrmul-kak dugong-Foc

Dugong always whispers (T3:62).

(202) wulaputwulaput wøn mørrakmala-karr-wa-Ø
long ago rain make-3plA.3sgmONF-makeAUX-NF

karr-mi-Ø-rran 3plSNF-sitAUX-NF-HAB

Long ago, they used to sit and make rain (T1:18).

- (203) nulkpara kanpa-kapica-Ø-rran nalkin-pene small pl 3plA.3plONF-discard-NF-HAB sea-LOC The tiddlers they used to throw away into the sea.
- 3.4.3.5 <u>Derivational suffix</u>. The reflexive/reciprocal suffix {-cica} derives an intransitive verb from a transitive stem.

{-cica} attaches directly to the verb stem. It may be followed by the admonitory suffix, e.g. (176), aspectual suffixes, e.g. (207)-(209) and compatible clitics, e.g. (208)-(212). Reflexive {-cica} marks self-directed action, e.g. (42), (204)-(207).

- (204) nace-makka na-pørric-ica 1sgP-PERF 1sgS-scratch-REF I scratch/ed myself (AL:82).
- (205) ne-n-ica ne-n-ica
  2sgSFUT-see-REF 2sgSFUT-see-REF
  IMP IMP
  Watch yourself! Watch yourself! (JB:1).
- (206) yanaran-cii na-palam-ica na-mi-m today-3sgmDetang 1sgS-cut-REF 1sgS-sitAUX-PRES

merrepøce hair

Right now, I'm sitting, cutting my hair (AL:88).

Suffixed to a verb whose pronominal prefix specifies a singular subject, {-cica} can only be reflexive. To avoid ambiguity in utterances where the pronominal prefix to the verb specifies a non-singular subject, speakers add a reflexive pronoun co-referential with the subject of the verb, e.g. (207).

(207) karr-pø-ca-makka-kani parrmiyic-nala 3duSNF-hit-REC-PERF 3plP hand REFL They hit themselves (AL:91).

In (208)-(212), {-cica} marks a reciprocal action.

- (208) karr-pø-ca-makka-kani
  3duSNF-hit-REC-PERF
  Those two fought each other (T2:2).
- (209) yinmek-pente nanka-palam-ica-nun-pakka tomorrow-now lduincS-cut-REC-PUR-re

nanka-mu 1duincS-sitFUTAUX

Tomorrow let's both sit and cut each other's hair! (AL:89)

- (210) mipe-kanka-wukk-ica-n-kani
  eye-2duSNF-copy-REC-PRES
  You look like each other (AL:114).
- (211) parr-p-u-pica-nun-pakka-kani
  3duSFUT-FUT-spear-REC-PUR-re
  They're really going to spear each other (AL:82).

The verb {-pøme} 'hug' takes the exceptional reflexive/ reciprocal allomorph /-picica/, e.g.

- (212) ŋarra-pøm-picica-kapi 1duexS-hug-REC We hugged each other (AL:150).
- 3.4.4 Type B verb stems. Compound verbs consist of a type A verb stem acting as auxiliary to a type B verb stem. Most type B verb precede their auxiliary verb, but a minority may precede or follow an intransitive auxiliary, e.g. (213), (188). Compound verbs are listed in 3.4.5.
- (213) menen canam-makka-kka edveg ncm kurrajong-PERF-re

pøce-pøcce-karr-pe-n-cø head-carry-3plSNF-goAUX-PRES-CONT

The kurrajong they've been carrying on their heads (T3:25).

(188) karr-pe-n-cø-makka-menen-pøce-pøcce
3plSNF-goAUX-PRES-CONT-PERF-edveg-head-carry
They've been head-carrying the edible vegetables
(T3:29).

On some compound verbs, a second, verb-final, type B verb stem occurs as a complement, e.g.

(214) nakulø ten-yan-pø-mene-kannak

Neg stop-1sgA.3sgmO-hitAUX-NF-laugh

I couldn't stop laughing (AL:511).

Type B verb stems may incorporate immediately preceding nominal(s) in object function, e.g. (188), (213) and (180) and see 3.4.7.

Type B verb stems may bear nominal derivational suffixes,

- e.g. (215)-(217).
- (215) munmun-malan pluck-FUL Luxuriant.

٠

- (216) perr pøtcøt mirak-pøttun 3plDetang shoe dance-GEN These are shoes for dancing (AL:400).
- (217) celme-pøcce-pøttun na-p-pur-in warrkati shoulder-carry-GEN 1sgS-FUT-walkFUT-FUTCM dillybag I'll go with this bag for carrying on my shoulder (AL:434).

A minority of verb-initial type B verb stems may be cliticised by the purposive aspectual marker, e.g. (198) -(199).

- 3.4.5 <u>Compound verbs</u>. In the corpus, 37 type A verb stems (21 transitive, 16 intransitive) act as auxiliaries to 115 type B verb stems to form 136 compound verbs. The following type B verb stems co-occur with more than one auxiliary:
- (i) {nac} 'hide', co-occurs with the transitive auxiliary {kapica} 'throw away', in the transitive compound verb {nac-kapica} 'hide something', and with the intransitive auxiliary {par} 'walk' in the intransitive compound verb {nac-par} 'hide oneself'.
- (ii) {kak} 'leave' co-occurs with three intransitive
  auxiliaries: {yika} 'go down', {pe} 'go', {par} 'walk'.

- (iii) {kittirak} 'peel', co-occurs with two transitive
  auxiliaries: {yi} 'put down/make' and {rikka} 'sort'.
- (iv) {nalapala} 'lose', co-occurs with two transitive
  auxiliaries: {kunme} 'bring' and {ma} 'pick up'.
- (v) {pøcce} 'carry' co-occurs with two intransitive
  auxiliaries {pe} 'go' and {par} 'walk'. {pøcce}
  is always immediately preceded by an incorporated bodypart nominal.
- (vi) {mununuk} 'dance' (by men) co-occurs with the
  transitive auxiliary {mara} 'kick' and the intransitive
  auxiliaries {pe} 'go' and {par} 'walk'.
- (vii) {mirak} 'dance' (by women) co-occurs with the
  intransitive auxiliaries {muy} 'move', {pe} 'go' and
  {par} 'walk'.

For many compound verbs, there is semantic motivation for the collocation of auxiliary and type B verb stem. Both denote actions/states. The type B verb stem delimits the type of action/state specified by the auxiliary. The corpus contains the following auxiliary verbs and co-occurring type B verb stems:

#### Transitive auxiliaries

turra cook tut leave n see

```
nipe
                  touch, hold
rikka
                  sort
ci
                  eat
се
                  give
                  take out
cetpe
уi
                  put down
karranme
                  turn sthg over
ka
                  take
                  throw away
kapica
                  bring
kunme
                  hit
рø
                  smash
pa
                  stab
paŋka
                  beat
purr
ma
                  pick up
                  kick
mara
wa
                  make
(a) turra
                  cook
                  boil-cook
pullup-turra
                                 > cook
                 smoke-cook
                                 > fumigate house
wul-turra
(b) tut
                  leave
                  pass by-leave > leave behind
rin-tut
(c) n
                  see
kikkilili-n
                  tickle-see
                                 > tickle
                  blow on-see
                                 > blow on
pø-n
(d) nipe
                  hold
                  grip-hold
                                 > hold tight
tup-nipe
cirr-nipe
                  squeeze-hold
                                 > squeeze
recca-nipe
                  want-hold
                                 > desire
(e) rikka
                  sort
kittirak-rikka
                  peel-sort
                                 > peel and sort
(f) ci
                  eat
cam-ci
                  devour-eat
                                 > eat up
(g) ce
                  give
mepec-ce
                  share-give
                                 > share
(h) cetpe
                  take out
lun-cetpe
                  extract-take out> extract
munmun-cetpe
                  pluck-take out> pluck
```

```
nananana-cetpe
                 split-take out> split
(i) yi
                 put down, functions as a causative
in some compounds.
cera-yi
                 burn-put down > burn
cøl-yi
                 lower-put down> put down on ground
yele-yi
                 taste-put down> taste
kittirak-yi
                 peel-put down > peel and put down
kut-yi
                 miss-put down > miss
                 break-make
nuk-yi
                                > break
                 block view-make> block view
nanaperrac-yi
                 spoil-make
mipelakkuk-yi
                                > spoil
                 question-make > ask question
marrcela-yi
wuccuc-yi
                 pick-put down > pick and put down
wupucpupuc-yi
                 gather-put down> gather
(j) karranme
                 follow
nana-karranme
                 split-follow > turn sthg over
(k) ka
                 take
war-ka
                 lift-take
                                > lift
pirippirip-ka
                 turn round-take> turn something round
(1) kapica
                 throw away
yanac-kapica
                 throw on-throw away> throw on
nac-kapica
                 hide-throw away
                                    > hide something
put-kapica
                 throw in-throw away> throw in
(m) kunme
                 bring
nalapala-kunme
                 drop-bring
                                > lose
(n) pø
                 hit
ten-pø
                 stop-hit
                                > stop
                 nuisance-act-hit> behave badly
pinin-luk-pø
cørencøren-pø
                 rub-hit
                                > rub clean
yerrk-pø
                 scrape-hit
                                > scrape, comb
pilk-pø
                 slap-hit
                                > slap
                 make cool-hit > make cool
per-pø
                  smash
(o) pa
                  shut-smash
mipene-pa
                                > close
(p) panka
                 stab
cirrcirr-panka
                 boil-stab
                                > boil
                 itch-stab
                                > itch
cencan-panka
cak-panka
                 burst-stab
                                > erupt
cur-panka
                 sting-stab
                                > sting
```

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```
nal-panka
                  sew-stab
                                 > sew
(q) purr
                  hit with missile
cikmiyic-purr
                  sneeze-hit with missile> sneeze
                  pick up
(r) ma
                  steal-pick up > steal
yenere-ma
                  help-pick up
nalawa-ma
                                 > help
nalapala-ma
                  drop-pick up
                                 > lose
                  trip-pick up
wat-ma
                                 > trip
(s) mara
                  kick
mununuk-mara
                  dance-kick
                                 > dance (men)
(t) wa
                  make
                  build-make
                                 > build
mørrakmala-wa
Intransitive auxiliaries
racc
                  go
                  break
citpice
                  stand
cana
                  ask
yicc
yika
                  go down
                  lie
yе
kape
                  laugh
рe
                  qo
                  die
pette
                  vomit
pelepa
                  walk
par
puka
                  bathe
                  sit
mi
                  say, be
me
                  work for
mey
manc
                  rise
muy
                  move
(a) racc
                  go
nawi-racc
                  crawl-go
                                 > crawl
picip-racc
                  travel-go
                                 > go on a journey
(b) citpice
                  break
nana-citpice
                  split-split
                                 > split
(c) cana
                  stand, functions as a stative verb in
```

its compounds:

```
be on feet-stand> stand up all day
ciccinili-cana
                 rise-stand
                                > stand
cat-cana
                 be wedged-stand> be wedged
terrk-cana
                 be bogged-stand> be bogged
nalak-cana
                 be alight-stand> be alight
pilpima-cana
                 be slack-stand > be slack
pulk-cana
(d) yicc
                 ask
pickulø-yicc
                 change shape-ask > change into animal
                                   > wail
purr-yicc
                 wail-ask
                 qo down
(e) yika
                 flow-go down > flow down
rin-yika
curr-yika
                 climb down-go down> climb down
kak-yika
                 go away-go down> go off down
                 flow-go down > flow ( of tide)
warrun-yika
(f) ye
                 lie, functions as a stative auxiliary
in its compounds.
                 snore-lie
                                > snore
kurrma-ye
                 dream-lie
pønec-ye
                                > dream
                 sleep-lie
pørrec-ye
                                > sleep
(g) kape
                 laugh
                               > laugh
kannak-kape
                 laugh-laugh
(h) pe
                 qo
cenme-pe
                 relieve self-go> go and relieve oneself
                 be unlucky-go > be unlucky hunting animals
nincamalli-me
                 go spear-fishing
yanulac-pe
kak-pe
                 leave-go
                                > leave, go away
                 urinate-go
                               > urinate
kawelec-pe
nala/pøce/mecak/celme/pepere/manac/carrwa/lenti-pøcce-pe
hand/head/neck/shoulder/back/chest/flank/hip-carry-go > go,
carrying in one's hand/on one's head/neck/back/chest/flank/hip.
parrac-mecak-pøcce-pe astride-neck-carry-go> go, carrying
astride one's neck
                                > go dancing (of women)
mirak-pe
                 dance-go
mørrø-pe
                 be lucky-go
                                > be lucky getting vegetables
mununuk-pe
                 dance-go
                                > go dancing
munuyil-pe
                 paddle-go
                                > go, paddling
(i) pette
                 die
cerrpine-pette
                 starve-die
                                > be starving
marrcic-pette
                 freeze-die
                                > be cold
```

```
(j) pelepa
                 vomit
nakali-pelepa
                 ?-vomit
                                > vomit
(k) par
                 walk
                 run-walk
cena-par
                                > run
                 relieve self-walk> go and relieve oneself
cenme-par
yanulac-par
                 spear-fishing-walk> travel, spear-fishing
kak-par
                 leave-walk
                                > leave
kawelec-par
                 urinate-walk > go and urinate
nac-par
                 hide-walk
                                > hide
nala/pøce/mecak/celme/pepere/manac/carrwa/lenti-pøcce-par
hand/head/neck/shoulder/back/chest/flank/hip-carry-walk> walk,
carrying in the hand/on the head, neck, shoulder, back, chest,
flank, hip
parrac-mecak-pøcce-par astride-neck-carry-walk> walk, carrying
astride one's neck
mirak-par
                 dance -walk
                                > go dancing (of women)
murran-par
                 inform on-walk> inform on someone
mununuk-par
                 dance-walk
                                > go dancing (of men)
munuyil-par
                 paddle-walk
                                > paddle
(1) puka
                 bathe
                 wash-bathe
kappuk-puka
                              > bathe
(m) mi
                 sit
tut-mi
                 sit down-sit > sit down
cinci-mi
                 squat on heels-sit> squat on heels
camaya-mi
                 chew-sit
                                > chew
cøtpiyic-mi
                 chat-sit
                                > chat
malwarran-mi
                 tell story-sit> tell story
                 sniff-sit
nurrknurrkwa-mi
                                > sniff
nalapiyic-mi
                 clap-sit
                                > clap
nala/pøce/manac-pøcce-mi hand/head/neck-carry-sit > sit,
carrying in the hand/on the head/chest
                 say, be, functions as an inchoative verb
(n) me
in some compounds.
                 flow-dribble > dribble
rin-kar-me
cilk-me
                 ache-say
                                > ache
                 be charred-be > be charred
currk-me
                 change shape-be> change into animal
yu-me
kara-me
                 drip-be
                                > drip
nalanala-me
                 cough-say
                                > cough
```

```
nulma-me
                 be very sick-be> be very sick
                 dazzle-be
                               > be dazzling
pilk-me
pipere-nun-me
                 ear-forget-be > forget
perkperk-me
                               > bark
                 bark-say
                               > smoke
                 smoke-be
pø-me
                 shiver-be
                               > shiver
parrparr-me
palk-me
                 swell up-be
                              > swell up
pul-me
                 be hot-be
                               > be hot
malk-me
                 sit on ground-be> sit on ground
wirk-me
                 shriek-say
                               > shriek
                 float-be
                               > float, fly
war-me
warrk-me
                 win-be
                               > win
                 miss-be
                               > miss
warrun-me
(o) mey
                 work
                 work for-work > work for
meyecme-mey
                 rise
(p) manc
pal-manc
                 get up-rise
                               > get up
(q) muy
                 move
                 dance-move > dance (women).
mirak-muy
```

3.4.6 Auxiliary verb complexes. In an auxiliary verb complex, a simple or compound transitive or intransitive verb is regularly followed by one of the following five intransitive auxiliary verbs:

```
-caŋa stand
-yepe lie
-pe go
-par walk
-mi sit.
```

These auxiliary verbs specify the bodily orientation of the subject of the main verb, e.g.

```
-cana (96), (220);
-ye (219);
-pe (25), (32), (142), (151), 185), (186), (194), (221);
```

-par (72), (131), (222); -mi (44)-(45), (85), (159), (172), (192), (202), (206), (209), (218).

Choice of auxiliary is limited by the nature of the action/stat expressed by the main verb; the actions described in (44)-(45) must be performed sitting; that ordered in (25) cannot. When logically possible, a main verb may collocate with any of these five auxiliaries, e.g.

- (218) kalan-palak kan-ø-na kan-mi-Ø mother-GEN 3sgfSNF-cry-NF 3sgfSNF-sitAUX-NF My mother sits and cries/sat and cried.
- (219) kalan-palak kan-ø-na kan-epe-Ø mother-GEN 3sgfSNF-cry-NF 3sgfSNF-lieAUX-NF My mother lies and cries/lay and cried.
- (220) kalan-palak kan-ø-na kan-cana-ø mother-GEN 3sgfSNF-cry-NF 3sgfSNF-standAUX-NF My mother stands and cries/stood and cried.
- (221) kalan-palak kan-ø-na kan-pe-Ø mother-GEN 3sgfSNF-cry-NF 3sgfSNF-goAUX-NF My mother cries as she goes/cried as she went.
- (222) kalan-palak kan-ø-na kan-par-a mother-GEN 3sgfSNF-cry-NF 3sgfSNF-walkAUX-NF My mother cries as she walks/cried as she walked.

The pronominal prefix to the auxiliary cross-references as S, the A cross-referenced on the main verb. An auxiliary inflects for tense, mood and aspect to match its main verb, e.g. (172). Aspectual suffixes applicable to the main verb cliticise a complex-final auxiliary, e.g. (44), (96), (185) -(186).

(44) nananana-ka-cetpe-Ø kan-mi-n-cø split-3sgA.3sgONF-take out-NF 3sgfSNf-sitAUX-PRES-CONT She's sitting, continually splitting it (T4:21).

A complex-final auxiliary bears, in addition to its own inflectional and derivational affixes, enclitic pronominal suffixes governed by the main verb, e.g. (85), (96).

(85) kan-ukpica-Ø kan-mi-Ø-m-pørrankani
3sgfSNF-call out-NF 3sgfSNF-sitAUX-NF-PRES-3duD

yik-karran old-ERG

The old woman is sitting, calling out to those two (T6:34).

3.4.7 <u>Incorporated nominals</u>. 27 type A and 4 type B verb stems incorporate immediately preceding nominals in object function, to form 75 lexical compounds, which cannot be predicted. Some are fossilised idioms incorporating bodypart nominals, e.g.

```
(223) cøt-nønme = foot-start > prevent
```

(224) kawen-ce = blood-give > hate

(225) pipere-nun-me = ear-forget-do > forget

(226) pepera-purr = back-hit with missile > cover

(227)  $p \not o c e - p \not o = head-hit > kindle$ 

(228) mipemipe-me = eyes-say > not know how to

(229) mipemipe-ma = eyes-pick up > be lost

(230) mipe-wica = eye-pull > repeat

(231) møn-tørrp = buttocks-roast > push

(232) møn-nønme = buttocks-start > start

(233) møn-karrinmice = buttocks-play > wander

(234) wice-n = nose-see  $\Rightarrow$  hate

(235) nanan-karrinmice= person-play > change into animal

(236) mal-pøce-pø = talk-head-hit > make noise.

Other lexical compounds are transparent. These are listed at the end of this section.

- 33 different lexemes are incorporated. Of these, 15 denote body-parts, e.g.
- (237) melnmeln wunmarrac mipe-kat-pø-mene-kani cheeky yam long yam eye-3duA.3ONF-hit-NF
  They both found cheeky yams, long yams (T3:15).
- 4 incorporated nominals denote tangible entities, e.g.
- (238) pik-karr-ipe-makka nawulan-makka rope-3plA.3sgmONF-hold-PERF woman-CAU

kan-pø-mene 3sgA.3sgfONF-hit-NF

They gaoled him for killing a woman (AL:166).

- 2 incorporated nominals denote audible, intangible entities: mal 'noise', paŋan 'song'. 12 incorporated nominals denote physical attributes, (239), or value judgements, (240).
- (239) mit-yerren-paka ŋarra-mu pretty-1plincA.3plO-stabFUTAUX 1plincS sitFUTAUX Let's all sit and dye them pretty! (T5:27)
- (240) yarrn-kana-me
  straight-2sgSNF-say
  You said the truth! (AL:13).

When an incorporated nominal is incorporated into an intransitive verb, the resulting lexical compound is thought of as a unitary concept, e.g.

- (241) pepera-cilk-ŋa-me
  back-ache-1sgS-be
  My back is aching (JR:17).
- (242) is a syntactic paraphrase of (241).
- (242) mempit nan-nipe-Ø pepera cramp 3sgA.1sgO-hold-NF back
  I've got cramp in my back (JR:44).

A nominal is incorporated into a transitive verb is always in object function. Incorporation deprives a nominal of syntactic salience and leaves the object slot vacant for another nominal in O function, e.g. (31), (48), (184), (213), (237)-(238), (243).

(48) kawen-yan-e-wene cica nanan blood-1sgA.3sgmO-give-NF 3sgmDevis man

manac-nace-pøttun-cene heart-1sgS-GEN-INS

I hate that man with all my heart (AL:62).

(243) cenmiyic kan-mi-Ø møn-ka-nønme-Ø
3sgfP 3sgfS-sit-NF buttocks-3sgA.3sgmONF-start

nancic another one

She sits down and starts (weaving) another (band of colour) (T4:91).

In her typology of noun incorporation (NI), Mithun (1984:856, 878) defines four types of NI. In type I, NI derives lexical compounds perceived as unitary concepts, with syntactic paraphrases. In type II, the noun is incorporated in object

function, losing syntactic salience, and leaving the object slot free for another nominal to fill. Type II NI is predicated on the existence of type I. Incorporated nouns in Bachamal fit types I and II of Mithun's classification.

The corpus contains the following lexical compounds whose meaning is transparently derived from an incorporated nominal:

```
shrink
(244) terrpmin-me
                    = narrow-be
(245) tarranmalan-yi = cool-make
                                      > cool
(246) tul-me
                    = angry-be
                                      > be angry
                   = line-go
                                      > go fishing
(247) nitirr-pe
                                     > go off fishing
(248) nitirr-par
                   = line-walk
(249) nitirr-mi
                   = line-sit
                                         sit fishing
(250) celme-pøcce-pe = shoulder-carry-go> go, carrying on the
                                         shoulder
(251) celme-pøcce-par= shoulder-carry-walk> walk, carrying on
                                           the shoulder
(252) carrwa-pøcce-pe= rib-carry-go
                                      > go, carrying on the
                                         flank
(253) carrwa-pøcce-par = rib-carry-walk>
                                         walk, carrying on
                                         the flank
(254) carakku-yi
                   = good-make
                                         cheer up
                                      >
(255) lenti-pøcce-pe = hip-carry-go
                                      > go, carrying on
                                         one's hip
(256) lenti-pøcce-par = hip-carry-walk > walk, carrying on
                                         one's hip
                                      > shed shell
(257) yirril-pikica = shell-pick at
                    = old-be
(258) yik-me
                                      > grow up
(259) yik-yi
                    = old-make
                                         rear
(260) yarrn-me
                    = straight-say
                                      > tell the truth
                   = path-take out
(261) kel-cetpe
                                     > take the lead
(262) kel-mønme
                    = path-climb
                                      > climb
(263) nak-pellerrme = mouth-open
                                      > yawn
(264) nala-pøcce-pe = hand-carry-go> go, carrying in the hand
(265) nala-pocce-par= hand-carry-walk > walk, carrying in
```

one's hand

```
(266) nala-pøcce-mi = hand-carry-sit >
                                          sit, carrying in the
                                          hand
(267) nanka-pø
                     = clapsticks-hit
                                          play clapsticks
                                       >
(268) nak-cetpe
                     = mouth-take out
                                       >
                                          open
                                          hook fish
(269) nak-panka
                     = mouth-stab
(270) pik-nipe
                     = rope-hold
                                          gaol
(271) pipere-celkme = ear-think
                                          think about
                                       >
(272) penterr-yi
                     = sweet-make
                                       >
                                          sweeten
(273) pepera-pøcce-pe= back-carry-go> go, carrying on back
(274) pepera-pøcce-par= back-carry-walk>
                                          walk, carrying on
                                          one's back
(275) pøce-pøcce-pe = head-carry-go
                                       > go, carrying on head
                                          walk, carrying on
(276) pøce-pøcce-par = head-carry-walk >
                                          one's head
(277) pattura-yi
                     = dry-make
                                       > dry
(278) panan-pinc
                     = song-climb
                                          sing
                                       >
(279) parrac-mecak-pøcce-pe=astride-neck-carry-qo> qo, carry
                                          astride one's neck
(280) parrac-mecak-pøcce-par
                                       > walk, carrying
                                          astride one's neck
(281) mit-marr
                     = pretty-paint
                                          paint pretty
(282) mit-wakaca
                     = pretty-come out >
                                          turn out pretty
(283) mit-panka
                     = pretty-stab
                                          make pretty
(284) mipe-cetpe
                     = eye-take out
                                          open
(285) mipe-pellerrme = eye-open
                                          open eyes
                     = eye-hit
(286) mipe-pø
                                          find
(287) mipe-wakaca
                     = eye-arrive
                                          look on the surface
(288) mipe-wukka
                                          look like
                     = eye-copy
(289) mecak-pøcce-pe = neck-carry-go
                                          go, wearing round
                                          one's neck
(290) mecak-pøcce-par= neck-carry-walk >
                                          walk, wearing round
                                          one's neck
(291) mecak-pøcce-mi = neck-carry-sit
                                          sit, wearing round
                                          one's neck
(292) møn-mara
                     = buttocks-kick
                                          catch up with
(293) manac-pøcce-pe = chest-carry-go
                                          go, carry on chest
                                          walk, carrying on
(294) manac-pøcce-par= chest-carry-walk>
                                          one's chest
```

- (295) wice-pikica = nose-pick at > pick one's nose
- (296) wirrk-yi = finished-make > finish.
- 3.4.8 <u>Interrogative verb</u>. The interrogative particle {yine-} 'how?/what?' is incorporated into the verb {-me} 'do' to derive the interrogative verb {yine-me} 'do what?', e.g.
- (297) yine-kane-me-makka what-2sgSNF-do-PERF What did you do? (AL:172)

When followed by another verb, {yine-me} means 'do how?', e.g.

(298) yine-kane-me-makka mørrakmala-ka-wa
how-2sgSNF-do-PERF build-2sgA.3sgmONF-makeAUX
How did you make it? (AL:171)

- 3.5 Adverb morphology. Adverbs specify the time, place and manner of the action or state expressed by the verb. Interrogative adverbs always occur sentence-initially. Temporal adverbs and adverbs of manner occur sentence-initially or finally. Locative adverbs occur anywhere in the sentence. Temporal adverbs may be marked with perfective or purposive aspectual suffixes; locative adverbs may be marked with local case-suffixes. Interrogative adverbs may carry dative or ablative, purposive or causal suffixes. Temporal adverbs may bear compatible clitic particles.
- 3.5.1 <u>Temporal adverbs</u>.

wulaput wulaput

some years ago

wulaput some time ago

mørrakara yesterday

mørrakara mancic yesterday-one = day before

yesterday

nurraca last night

yanaran today pelappuy early

yanaran-ci today-3sgmDetang = right/now

palkpalk already
parr later
kulkamørra at dusk
yinmek tomorrow

yinmek nancic day after tomorrow

naŋana first ŋuna then naŋkarra again

## 3.5.2 Locative adverbs.

warankal far
wurak near
wanancic behind
kata on top
cølup inside
manmac outside
kayawarra along

pankulka in the middle pønka round the corner

pap u

kacu towards the speaker kuca away from the speaker

kacucu out of sight of the speaker.

### 3.5.3 Manner adverbs.

mattimatti slowly

wettet/werret

quickly

rømetmet

heartbrokenly

yencarrwa

on one's side

puc

straight.

#### 3.5.4 Interrogative adverbs.

anikine

when?

pinewica

how many/much?

kine

where?

Sentence-initial interrogative adverbs may be cliticised by purposive or perfective aspectual markers. {kine} 'where?' may bear a Locative case-suffix and inflects for number and 3sg gender. These forms, listed in Table 13, occur only in locative questions, where they agree in gender and number with a following audible deictic, e.g. (299)-(301).

Table 13: Interrogative adverb inflections

	Singular	Plural
3 m	cine	pine
3f	cipina \int \	

- (299) cine cawana nanan Where is that man?
- (300) cinina cenena nawulan Where3sgf 3sgfDeaud woman Where is that woman?

(301) pine parrana
Where3pl 3plDeaud
Where are those people?

3.6 Particle morphology. Bachamal distinguishes free and clitic particles. Free particles occur sentence— or phrase—initially or —finally, and may be modified only by compatible clitic particles. Interjections form an invariable sub—class of free particle; each interjection constitutes a sentence. Clitic particles cannot occur independently, but an otherwise independent word. Clitic particles attach to members of every word class.

Particles add illocutionary force to a word, phrase or sentence. They specify its focus or polarity, whether an entity, or action/state is additional,obligatory, deliberate, whether or not it has already occurred, and when, or if it is still occurring.

### 3.6.1 Free particles.

### 3.6.1.1 Interjections.

teli

Wait!

ya

I don't know

yakarra

Oh, no!

yakkuy probably

kawa Come!

ŋa Yes!

nutpe Never mind!

perrmen Finished!

mepan OK!

# 3.6.1.2 Free particle operating at sentence or phrase level. {kamanka} Nothing!

{kamanka} may derive historically from the 3sgmSNF form
of the verb {manka} 'be lacking', which is not attested in the
corpus. Cognate with {kamanka} is the nominal derivational
suffix {-manka} 'empty'. {-manka} and {kamanka} may co-occur,
e.g. (133). {kamanka} negates nominals, e.g. (186), (302).
(302) kamanka man

Nothing money
I've no money (JB:3).

In (302), {kamanka} operates at phrase level, but it may by itself replace a verb, e.g. (174), (303).

(303) mipe cica yan-cetpe-nun na-me-n-kak
eye 3sgDevis 1sgA.3sgmO-take out-PUR 1sgS-try-PRES-Foc

kamanka-nte-pe
nothing-now-ever

I'm trying to get that thing out of my eye; I'll never do it (T3:49).

{kamanka} may be modified only by the clitic particles {-pente}

'now', {-pe} 'ever', e.g. (303), or (-pakka}, e.g. (304), or {-karrac}, e.g. (305).

- (304) kamanka-kka
  Nothing-re
  No way! (AL:501)
- (305) kamanka-karrac
  Nothing-at all
  Nothing at all (AL:509).
- 3.6.1.3 Free particles operating at phrase-level.

enin

isn't it?

nakulø

not

memmen--pupuy

keep doing, without stopping.

- (i) Interrogative particle. {enin} 'isn't it?' occurs most often as a sentence-final tag question, e.g.
- (306) wøn ye-pi-yika-nun enin rain 3sgSFUT-FUT-come down-PUR isn't it It's going to rain, isn't it?
- (ii) Negative particle. { nakulø} 'not'.

{nakulø} occurs sentence-initially and may thus be cliticised by the purposive and perfective aspectual suffixes. It is modified only by clitic particles. {nakulø} negates positive declarative sentences, e.g.

(307) nakulø-nte-pe ye-p-pakaca
Neg-now-ever 3sgSFUT-FUT-come out
It will never come out (T3:51).

{nakulø} negates positive admonitions, e.g. (170), (176)-(177) and introduces type 1 prohibitions, e.g.

(308) nakulø ye-pe-cen-pe

Neg 2sgA.3sgmOFUT-FUT-put in-FUTCM

Don't put it in! (AL:412)

{nakulø} does not occur in type 2 prohibitions. These are marked negative by the negative suffix {-kulø} which attaches to a verb inflected for non-future tense, prefixed by a non-future prefix, e.g (165-169 and (309).

- (309) ka-cen-mene-n-kulø
  2sgA.3sgmONF-put in-NF-PRES-Neg
  Don't put it in! (AL:413)
- (iii) Continuative particles. {memmen} {pupuy} 'keep doing
  without stopping'. The invariable particles {memmen} {pupuy}
  frame the verb they qualify, e.g.
- (310) memmen yan-pi-kirrwa na-p-pe-cø pupuy stop 1sgA.3sgm-FUT-dig 1sgS-FUT-go-CONT go I won't stop digging (AL:477).
- 3.6.2 <u>Clitic particles</u>. Bachamal clitic particles encliticise members of any word class. They follow all derivational and inflectional suffixes and may themselves be cliticised by pronominal enclitics. Table 14 shows the order of co-occurring clitics.

Clitics differ from derivational suffixes in that they cannot create words (cf. Klavans 1982:15). Clitic and host word form a single phonological unit. The initial syllable of the clitic particle {-t/rrankarra} 'another', and the initial CV of the clitic particles {-pente} 'now', {-pakka} 'same/

really' and {-pakkacca} 'obligated' elide after a host-final vowel. A word may be cliticised by up to two clitic particles, the final one always being the focal clitic {-kak}. The clitic particle {-mepe} 'never' is restricted to a sentence-initial host; other clitic particles attach to sentence or phraseinitial and -final words; the focal clitic {-kak} may encliticise a word in any position in the sentence.

# Table 14: Order of co-occurring clitics

(I, II, II = first, second, and third order clitics) Ι ΙI III (i) (ii) -kak -pente (iii) -pe (iv) -mepe (v) -karrac (vi) -pakkacca (vii) -pakka (viii) -t/rrankarra -prnsx (ix) -merre (x)-mini

(xi)

-mente

(xii) -parrk

(xiii) -cukkaca

{-pente} 'now' frequently cliticises sentence-initial pronouns, e.g. (127), (136), nouns, e.g. (19), (186), (311), adjectives, e.g. (312), verbs, e.g. (29), (199), adverbs with future reference, e.g. (135), free particles, e.g. (303). {-pente} behaves like Yidin {a/la}, (Dixon 1977:236-9), in that, attached to nominals, it usually implies 'it's my/your/his/her/our/their turn' e.g. (19), (136), (311)-(312), while, attached to verbs or adverbs, it means 'immediately', e.g. (29), (135), (179), (199).

- (311) win-nun-pente kan-ukpica-nacan milk-DAT-now 3sgfSNF-call out-3sgfD She calls out to her for milk (T2:21).
- (312) pøkka-nte kan-pe
   clean-now 3sgfSNF-go
   It's her turn to be clean (AL:387).
- (199) kak-kuŋ-pente-nerr-pe go away-PUR-now-2plSFUT-goAUX IMP Go away right now! (BL:14)
- {-(pe)nte} co-occurs with the focal clitic {-kak}, e.g.
  (19), or the particle {-pe} 'ever', e.g. (303), (307).
  It is followed by a pronominal enclitic in (29).
- (ii) {-kak} 'focal'. {-kak} topicalises a previously
  mentioned referent and frequently cliticises a deictic, e.g.
  (135), (144). The clitic particle {-kak} is homophonous
  with the type B verb stem {kak-} 'go away}, but they have
  different occurrence possibilities and ambiguity never arises.
- (iii) {-pe} 'ever' cliticises nominals, eg. (73), verbs, e.g. (194), but most often the free negative particles { $\eta$ akulø}, e.g. (73), (307), or {kamanka}, e.g. (303).

(73) nakulø-pe nan-pe-ce cin pampac Neg-ever 1sgA.2sgO-FUT-give 3sgfDetang baby

nace-pøttun-pe
1sgP-GEN-ever

I'll never give you this baby. It's mine for ever! (T2:29).

- (194) na-pe-me-nun-pe na-p-pe nace memempena 1sgS FUT-become-PUR-ever 1sgS-FUT-goAUX 1sgP porpoise As for me, I'm going to become porpoise for ever! (T2:62)
- (iv) {-mepe} 'never' only occurs attached to the sentenceinitial negative particle {nakulø}, in sentences whose verb is inflected for non-future tense, e.g.
- (313) nakulø-mepe pappa ka-me-n ka-pe-rran Neg-ever father 3sgmSNF-do-PRES 3sgmSNF-goAUX-HAB Father never used to do that (AL:488).
- (v) {-karrac} 'at all. This clitic particle modifies the
  negative particle {kamanka} 'nothing', e.g. (305).
- (vi){-pakkacca} 'obligated'. This clitic particle only occurs
  in admonitions, e.g. (170)-(178).

Cliticised to nominals, e.g. (314), {-pakka} means 'same'.

(314) peyik-pakka muntak ka-ka-nca kan-pe-m bag-same old 3sgA.3sgONF-take-NF 3sgfS-goAUX-PRES She's going, taking the same old bag (AL:240).

Cliticised to the present or purposive aspectual suffixes, e.g.

- (315), (195), to an adverb, e.g. (316), or to the negative particle {kamanka}, e.g. (304), {-pakka} means 'really'.
- (315) pul-ka-me-m-pakka rak ci-kak hot-3sgmSNF-be-PRES-re country 3sgmDetang-Foc This place is really hot (AL:250).
- (316) kuca-makka-kka pickulø-ka-yicca over there-PERF-re change shape-3sgmSNF-askAUX Over there, he really did change into an animal (T2:1).

{-t/rrankarra}, 'another' cliticises nouns, pronouns, verbs and some clitic particles, behaving like Dyirbal {-ru}, (Dixon 1972:266). It occurs most frequently after a noun or pronoun, e.g.

- (317) cica nanan-karran-karra kan-pø-mene
  3sgmDevis man-ERG-another 3sgA.3sgfONF-hit-NF
  That man was another that hit her (AL:321).
- (168) nenput-tut-mene-n-kulø nace-karran-karra 2plA.1sgO-leave-NF-PRES-Neg 1sgP-ERG-another

na-pe-n-cø 1sgS-go-PRES-CONT

Don't leave me behind, I'm coming too! (AL:492)

(318) kane-rrankarra nerr-pur-in-kani
2sgP-another 2duSFUT-walkFUT-FUTCM
IMP
You go too, the pair of you! (AL513)

- (319) nace-rrankarra narrun-turra narra-mi
  1sgP-another 1plincA.3plO-cook 1plincS-sitAUX
  We all sat and cooked them, I did too (AL:123).
- Cliticised to a verb, {-t/rrankarra} means 'another time', e.g.
- (320) karr-par-a-rrankarra
  3plSNF-walk-NF-another
  They went one more time (AL:322).
- (321) cenmiyic-tankarra kan-mi-m-tankarra

  3sgfP-another 3sgfSNF-sit-PRES-another

  Another woman is sitting another time (T5:21).
- (322) pørra-rrankarra kittirak-kanpi-rikka-parra-rrankarra 3plP-another peel-3A.3plONF-sortAUX-RET-another Another mob sorted and peeled them another time.
- (ix) {-merre} 'also/again' commonly cliticises verbs, e.g.
- (133), (323), but may cliticise sentence-initial nominals, e.g. (324).
- (323) pørra-rrankarra kanpu-turra-merre karr-mi
  3plP-another 3A.3plONF-dig-also 3plSNF-sitAUX
  Another mob sat and cooked them (AL:124).
- (324) nace-merre recca-yan-nipe 1sgP-also like-1sgA.3sgmO-hold I like him too (AL:241).
- In (325), {-merre} is attracted from verb-final position to cliticise a sentence-initial adverb.
- (325) mørrakara-merre ka-wu-mene-makka
  yesterday-also 2sgA.spear-NF-PERF
  You were among those who speared it yesterday (AL:280).
- (x) {-mini} 'at that time'. {-mini} is a past punctual
  particle which cliticises sentence-initial adverbs or

- complex-initial verbs, e.g. (137), (326)-(327).
- (326) mørrakara-mini ka-pa-kaca-ŋara-kkacca yesterday-then 2sgA.3sgmO-FUT-bake-ADM-obl You should have baked it yesterday.
- (327) kiwin nerren-pirr-ine-mini kanka-cana coolibah 2plA.3plO-chop-NF-then 2plSNF-standAUX At that time, you stood and chopped down the coolibah trees (AL:577).
- (xi) {-mente} 'already'. {-mente} cliticises sentence- or
  phrase- initial or final nominals, verbs or adverbs, e.g.
- (328) kan-pette-mente kamanka-kka
  3sgfSNF-die-already Nothing-re
  Q: Is she dead already? A: Not yet (AL:112).
- (329) nace-mente yen-ci-nene na-mi-makka

  1sgP-already 1sgA.eat-NF 1sgS-sitAUX-PERF

  I've already eaten (AL:270).
- (xii) {-parrk} 'still'. {-parrk} cliticises a sentence- or
  phrase- final verb, e.g. (330).
- (330) kan-mi-m-parrk teli cepiya
  3sgfS-sit-PRES-still Wait! alive
  Wait now, she's still alive! (AL:603).
- (xiii) {-cukkaca} 'only'. {-cukkaca} attaches to nominals,
  verbs or adverbs, e.g.
- (331) pampac-cukkaca child only Only child.
- (332) camuyic-cukkaca parrkin ya-p-pur-in 3sgmP-only by himself 3sgmSFUT-FUT-walk-FUTCM Only he will go, by himself.

(333) ciccinili-kan-can-a-cukkaca stand up-3sgfSNF-standAUX-NF-only She just stood (all day).

### Appendix 1: Verbs

#### Simple verbs

A pronominal prefix immediately precedes a type A verb stem inflected for non-future tense. When a type A verb stem is inflected for future tense, the pronominal prefix precedes the future tense prefix. The pronominal prefix is omitted in the following list of verbs.

#### Compound verbs

A type B stem typically immediately precedes the pronominal prefix of the type A stem which acts as its auxiliary. Type B stems are cited only in the stem + NF column.

#### Incorporated nominals

A nominal incorporated by a type A verb immediately precedes the pronominal prefix. A nominal incorporated by a type B verb stem immediately precedes the type B verb stem.

Incorporated nominals are underlined and cited only in the stem + NF column.

#### Irregular verbs

In Appendix 1, irregular verbs, classified by the letter I, are listed by conjugation. In Appendix 2, the irregularities of each verb are specified.

Conjugation 1		
$\underline{\text{stem} + NF}$	stem +	FUT Gloss
-ci-nene	-pi-ci	eat
I -ci-pene	-pi-ci	drink
cam-ci-pene		eat up
-n-ene	-pe-na	see
cewerr-n-ene		be jealous of
kikkilili-n-ene		tickle
<u>wice</u> -n-ene		hate
pø-n-ene		blow on
I -ye-wene	-pe-ce	give
I <u>kawen</u> -ye-wene		hate
I mepec-ye-wene		share
-pirr-ine	-p-pirr-e	chop
-nic-ene	-pi-nic-e	look after
I -nic-ene	-pi-nic-e	wait for
-pinc-ene	-p-pinc-e	hang up
-tørrp-mene	-pø-tørrp-pa	roast in sand
<u>møn</u> -tørrp-mene		push
-ṭat-mene	-pa-ṭal-pa	bite
-ṭut-mene	-pu-tul-pa	leave behind
rin-tut-mene		pass by
-cap-mene	-pa-cap-pa	stretch
-cen-mene	-pe-cen-pe	put in
-pø-mene	-рø-рø	hit
ten-pø-mene	•	stop (doing X)
<u>pinin</u> -luk-pø-mene		behave badly
cørencøren-pø-mene		rub
yerrk-pø-mene		scrape, comb
<u>nanka</u> -pø-mene		play clapsticks
pilk-pø-mene		slap
per-pø-mene		make cool
I <u>pøce</u> -pø-mene		heap up kindling
I <u>mal-pøce-pø</u> -mene		make noise
<u>mipe</u> -pø-mene		find
<u>mipe-karac-pø-mene</u>		look at cross-eyed
-wara-mene	-p-ara-pe	join
-wu-mene	-pu-pa	spear
-wuc-mene	-p-uc-pa	scold

kutti-wuc-mene		argue
<u>nak</u> -wuc-mene		kiss
-wun-mene	-p-un-pe	throw
5		
Conjugation 2	A control of the cont	
-rø-na	-pø-rø	cry
-yi-ŋa	-pu-yu	put down
tarranmalaŋ-yi-ŋa		cool
cera-yi-ŋa		burn
cøl-yi-ŋa		put down on ground
<u>carakku</u> -yi-ŋa		cheer up
<u>yik</u> -yi-ŋa		rear
yiŋkulk-yi-ŋa		sweeten
yele-yi-ŋa		taste, test
kittirak-yi-ŋa		peel and put down
kut-yi-ŋa		miss
ŋuk-yi-ŋa		break
<u>penterr</u> -yi-ŋa		sweeten
<u>pattura</u> -yi-ŋa		dry
I <u>para</u> -yi-ŋa	-pu-yu	swim
ŋanaperrak-yi-ŋa		block (view)
marrcela-yi-ŋa		ask question
<u>wirrk</u> -yi-ŋa		finish
wuccuc-yi-ŋa		pick and put down
wupucpupuc-yi-ŋa		gather
-pa-ŋa	-pa-pa	smash
mipene-pa-ŋa		shut
-purr-una	-p-purr-a	hit with missile
I -purr-una	-p-purr-a	look for
cikmiyic-purr-una		sneeze
pepera-purr-una		cover
-ma-ŋana	-pu-mu	pick up
yenere-ma-ŋana		steal
I ŋalawa-ma-ŋana	-pu-mu	help
I ŋalapala-ma-ŋana		lose
I <u>mipemipe</u> -ma-ŋana	-pu-mu	lose one's way
wat-ma-ŋana		trip
-marr-ana	-p-marr-a	paint
<u>mit</u> -marr-ana		paint pretty

-mac-ana	-p-mac-a	be scared of
-wac-ana	-p-ac-a	immerse
-wuc-ana	-p-uc-a	carry
	\	
Conjugation 3		
-racc-e	-pa-racc-an	go
ŋawi-racc-e		crawl
picip-racc-e		go on a journey
-cinpic-e	-pi-cinpic-aŋ	go in
-cappay-a	-pa-cappay-aŋ	stretch
-yicc-a	-pi-yicc-aŋ	ask
pickulø-yicc-a		change shape
purr-yicc-a		wail
wurakwurak-yicc-a		tug either end
-ye-pe	-pe-y-aŋ	lie
kurrma-ye-pe		snore
pønec-ye-pe		dream
pørrec-ye-pe		sleep
-ka-nca	-pa-ka-ŋ	take
war-ka-nca		lift
pirippirip-ka-nca		turn sthg round
-pinc-e	-p-pinc-an	climb up
paŋan-piɲc-e		sing
-par-a	-p-pur-in	walk
<u>nitirr</u> -par-a		go fishing
cena-par-a		run
cenme-par-a		go and relieve self
<u>celme</u> -pøcce-par-a		walk, carrying on the
		shoulder
<u>carrwa</u> -pøcce-par-a		walk, carrying on
		one's flank
yanulac-par-a		go spear-fishing
<u>lenti</u> -pøcce-par-a		walk, carrying on
÷ 1		one's hip
kak-par-a		walk away
kawe <u>l</u> ec-par-a		go and urinate
ŋac-par-a		hide (self)
<u>nala</u> -pøcce-par-a		walk, carrying in
		the hand

<u>pepera</u> -pøcce-par-a		walk, carrying on
		one's back
<u>pøce</u> -pøcce-par-a		walk, carrying on
	V.	the head
<u>parrac-mecak</u> -pøcce-par	-a	walk, carrying
		astride one's neck
mirak-par-a		go dancing (women)
mecak-pøcce-par-a		walk, wearing round
		one's neck
<u>manac</u> -pøcce-par-a		walk, wearing on
		the chest
murran-par-a		inform on
muŋuyil-par-a		paddle
mununuk-par-a		go dancing (men)
meyecma-mey-e	-p-mey-an	work
$\underline{\mathtt{kel}}\mathtt{-}\mathtt{m} \emptyset \mathtt{n} \mathtt{m}\mathtt{-}\mathtt{e}$	-p-mønm-aŋ	climb
-manc-ine	-p-manc an	get up
pal-manc-ine		get up
mirak-muy-e	-p-muy-aŋ	dance (women)
-wecc-a	-p-ecc-aŋ	give birth
-wunc-e	-p-unc-an	defecate
Conjugation 4		
-turra	-pu-turra	cook
pullup-turra		stew
wul-turra		fumigate house
I -nipe	-pi-ripe	hold, touch
pik-nipe		gaol
tup-nipe		hold tight
cirr-nipe		squeeze
recca-nipe		like, desire
wik-nime	-pi-rime	fetch water
cøt-nønme	-pø-nønme	prevent
I perkperk-nønme		start barking
møn-nønme		start sthg
-rikka	-pi-rikka	sort
kittirak-rikka	- -	peel and sort
-rina	-pi-ripa	fall
-cetpe	-pe-cetpe	take out

	luŋ-cetpe		extract
	<u>kel</u> -cetpe		take the lead
	<u>nak</u> -cetpe		open
	nananana-cetpe		split
	mipe-cetpe		open
	munmun-cetpe		pluck
	<pre>pipere-celkme</pre>	-pe-celkme	think about
	-caŋa	-pa-caŋ	stand
	cat-caŋa		stand
	terrk-caŋa		be wedged
	ŋalak-caŋa		be bogged
	pilpima-caŋa		be alight
	pulk-caŋa		be floppy
	-currka	-pu-currka	jump
	-yika	-pi-yika	go down
	kak-yika		go away down
	curr-yika		climb down
	-kirrwa	-pi-kirrwa	dig
	-kaca	-pa-kaca	bake
	-karrinmice	-pa-karrinmice	play
	<u>ŋanaŋ</u> -karriɲmice		change shape
	<u>møn</u> -karrinmice		wander
	ŋana-karraɲme	-pa-karranme	turn sthg over;
			follow sthg,
	kannak-kape	-pa-kape	laugh
	-kapica	-pa-kapica	throw away
	yanac-kapica		throw on
	ŋac-kapica		hide sthg
	put-kapica		throw in
	-kunme	-pu-kunme	bring
I	ŋalapala-kunme		lose
	-ŋaca	-pa-ŋaca	return
	-ŋawe	-pa-ŋawe	hear
	-ŋawa	-pa-ŋawa	recognise
	-ŋuccica	-pu-nuccica	withhold
I	-ŋuka	-pu-ŋuka	blow (wind)
	<u>yirril</u> -pikica	-p-pikica	shed skin
	<u>wice</u> -pikica		pick one's nose
	-pe	-p-pe	go

		and Chalada a
<u>nitirr</u> -pe		go fishing
nincamalli-pe		be unlucky hunting
		game
cenme-pe	No.	relieve oneself
<u>celme</u> -pøcce-pe		go, carrying on
		one's shoulder
<u>carrwa</u> -pøcce-pe		go, carrying on
		one's flank
<u>lenti</u> -pøcce-pe		go, carrying on
<u>.</u>		one's hip
yanulac-pe		go spear-fishing
kak-pe		go away
kawe <u>l</u> ec-pe		urinate
<u>nala</u> -pøcce-pe		go, carrying in
		one's hand
pepera-pøcce-pe		go, carrying on
		one's back
<u>pøce</u> -pøcce-pe		go, carrying on
		one's head
<u>parrac-mecak</u> -pøcce-pe		go, carrying astride
		one's neck
mecak-pøcce-pe		go, wearing round
		one's neck
mirak-pe		go dancing (women)
mørrø-pe		be lucky getting
	10 m	vegetables
manac-pøcce-pe		go, wearing on one's
		chest
muŋuyil-pe		paddle
mununuk-pe		go dancing (men)
-pette	-p-pere	die
cerrpine-pette		be starving
marrcic-pette		be freezing
ŋakali-pelepa	-p-pelepa	vomit
<u>nak</u> -pellerrme	-p-pellerrme	yawn
<u>mipe</u> -pellerrme		open eyes
-pønme	-p-pønme	smell; extinguish
-pøme	-p-pøme	hug
-panka	-p-paka	stab

I cirrcirr-paŋka		boil
cencan-panka		itch
cak-paŋka		erupt
cur-paŋka		sting
ŋal-paŋka		sew
<u>nak</u> -panka		hook fish
mit-panka		make pretty
-panpa	-p-panpa	be ignorant of
-palama	-p-palama	cut
-pørrice	-p-pørrice	scratch
-parrakka	-p-parrakka	pull
kappuk-puka	-p-puka	bathe
-mi	-p-mu	sit
nitirr-mi		sit, fishing
camaya-mi		chew
cøtpiyic-mi		tell story
kutpøpørør-mi		be anxious about
nalapiyic-mi		clap
nala-pøcce-mi		sit, carrying in
		one's hands
nurrknurrkwa-mi		sniff
parrac-mecak-pøcce-mi		sit, carrying astride
		one's neck
mecak-pøcce-mi		sit, wearing round
		one's neck
malwarran-mi		chat
-me	-pe-me	say, tell, do
<u>terrpmin</u> -me		shrink
<u>tuļ</u> -me		be upset, angry
cilk-me		ache
currk-me		be charred
yik-me		grow up
yu-me		change shape
yarrn-me		be right
nukku-me		tell lie
ŋalaŋala-me		cough
ŋulma-me		be very sick
pipere-nun-me		forget
perkperk-me		bark

pø-me		smoke
parrparr-me		shiver
palk-me		swell up
pul-me		be hot
${\tt malk-me}$	,	sit on ground
mipemipe-me		not know how to
wirk-me		shriek
war-me		float
warrk-me		win
warrun-me		miss
-mønce	-p-mønce	send
-møŋpica	-p-møŋpica	swallow
-mara	-p-mara	kick
<u>møŋ</u> -mara		catch up
mununuk-mara		dance (men)
<u>mipe</u> -wica		repeat
-werepice	-p-erepice	speak
-wa	-p-a	make
mørrakmala-wa		build, make
<u>cøt</u> -mørrakmala-wa		explain
-wakaca	-p-akaca	come out, arrive
<u>mit</u> -wakaca		come out pretty
<u>mipe</u> -wakaca		check sthg out
-wana	-p-ana	drown, dive
I –wu		grab
-wunme	-p-unme	deceive
-wunmice	-p-unmice	tell lie to
-wuka	-p-uka	tie up, sting
-wukka	-p-ukka	сору
<u>mipe</u> -wukka		look alike
-wukpica	-p-ukpica	call out.

Table 15: Bound pronominal prefixes to future and non-future transitive {wa-} verbs

· ·	SI	NGULAR		DU	JAL		PLUR	AL	
	1sgA	2sgA	3sgm/fA	1du <b>i</b> ncA	1duexA	1plincA	1plexA	2p1A	3p I A
all persons	waŋ-	wa-	wa-	waŋka-	warr-kapi	wVrrV-	war <b>r</b> -	wanka-	kanpV-/kat- (NF) panta- (FUT)

# Appendix 2: Irregular verbs

#### (i) wa- verbs

Person and number are neutralised on pronominal prefixes shown in Table 15 for the following irregular verbs:

#### Conjugation 1

-nic-ene	-pi-nice	wait for
-ci-nene	-pi-ci	drink
pøce-pø-mene	-pø-pø	light a fire
mal-pøce-pø-mene		make a noise.

#### Conjugation 2

para-yi-ŋa	-pu-yu	swim
-purr-una	-p-purra	look for
ŋalawa-ma-ŋana	-pu-mu	help
ŋalapala-ma-ŋana		lose.

# Conjugation 4

wik-nime	-pi-rime	fetch water
perkperk-nønme	-pø-nønme	start barking
ŋalapala-kunme	-pu-kunme	lose
-ŋuka	-pu-ŋuka	blow (wind)
cirrcirr-paŋka	-p-paka	boil
-wu		grab

Transitive wa- verbs obligatorily cross-reference the person, number and 3sg gender of human object nominals in a pronominal enclitic, e.g.

waŋ-nic-ene-nøŋ	I wait/ed for him
wan-nic-ene-nacan	I wait/ed for her
wan-nic-ene-pørran	I wait/ed for them
wik wa-rime-ŋarrkka	Fetch me water!
ŋalawa-wa-pu-mu-pørraŋ	you/s/he will help them
ŋalawa-waŋka-pu-mu-nøŋ	you and I will help him.

Other variants are peculiar to individual wa-verbs.

(a) {wu} 'grab'.

Tense, person, number and gender are neutralised totally in {wawu}, the only form attested for this verb.

(b) {pøce-pø} 'heap up kindling'
{mal-pøce-pø} 'make noise'.

Speakers regularly omit the verb stem of {pøce-pø} 'heap up kindling' and {mal-pøce-pø} 'make a noise' in 1plincA.30, pøce-werre-pø-mene > pøcewerremene head-1plincA.30-hit-NF we all heap/ed up kindling.

(ii) {ci} 'eat' {ci} drink'. The verb {ci} 'eat' is eligible to bear any pronominal prefix listed in Tables 11-12. The verb {ci} 'drink' bears only pronominal prefixes listed in Table 15. For both verbs, the stem-initial laminal stop lenites to an approximant intervocalically in non-future indicative and admonitory moods, e.g.

#### Indicative mood, non-future:

2/3sgA.3sgmO ka-yi-nene you/s/he eats/ate it
2/3A.3O wa-yi-nene you/s/he drink/s/drank it/them

Between high front vowels, the laminal approximant elides, eg.

1plincA/3sgmO yerrV-yi-nene> yerrinene we all eat/ate it

3A.3plO kanpV-yi-nene > kanpinene s/he/they eat/ate them

#### Admonitory mood:

In admonitory mood, the laminal approximant is not elided:

1plincA.3sgO yerre-pi-yi-nere we should all eat/have eaten it

3A.3plO kat-pi-yi-nere s/he/they should eat/have eaten them

(iii) {ce} 'give'. The stem-initial laminal stop lenites to an approximant in all indicative non-future and admonitory forms, e.g.

# Indicative mood, non-future:

3sgA.3sgmO ka-ye-wene

s/he gives/gave him

1plincA.3sgmO yerre-ye-wene

we all give/gave him

#### Admonitory mood

A regular verb inflected for admonitory mood has the structure: NFpronprx + FUT + Verb stem+FUT + Admonitory suffix.

The future verb stem {ce} 'give' elides in all admonitory forms, e.g.

kance-pe-ce- nere> kancepenere you should/have give/n her
2sgA.3sgfONF-IRR-giveFUT-Adm

(iv) {nipe} 'hold'.

After a prefix-final vowel, the stem-initial apico-alveolar nasal of the verb {-nipe} 'hold' lenites to a retroflex approximant, e.g.

ka-nipe-Ø > karipe

3sgA.3sgmONF-hold-NF s/he holds/held him

(v) {wa} 'make'. Future forms lack a future prefix in all
forms except lsgA.3sgmOFUT:

1sgA.3sgmOFUT yan-p-a

2/3sgA.3OFUT ya-wa

1duincA.30FUT yanka-wa

1duexA.30FUT yerr-wa-kani

1plincA.3OFUT yerra-wa

1plexA.30FUT yerr-wa

2plA.30FUT \_\_nerr-wa

3plA.30FUT yarr-wa

#### Appendix 3: Text

# Text 2: How porpoise and wallaby got their shapes

Agnes Lippo and Johnny Biyanamu recorded this, the best-known Wajikiny myth, at Belyuen 13/9/89. Duration 8 minutes.

(1) muc pannakkula way ka-yepe-cø wallaby Bannakkula way 3sgmSNF-lie-CONT

kuca-makka-kka pickulø-ka-yicca that way-PERF-re change shape-3sgmSNF-askAUX

Wallaby was Bannakula way; over there he actually changed into an animal. (way is an English loan lexeme)

- (2) na karr-pø-ca-makka-kani Yes 3duSNF-hit-REC-PERF Yes, they fought each other.
- (3) kane kawanakka na-purin kancerra nace-nun kacu 2sgP there 2sgS-walkFUT bush 1sgP-PUR this way IMP

na-purin nalkin-pene kan-me-nacan 1sgS-walkFUT sea-LOC 3sgfSNF-tell-3sgfD

'You go off there into the bush, for me to go this way, to the saltwater' she told her.

- (4) ŋa karr-me-ŋ-kani
  yes 3duSNF-say-PRES
  'Yes!', they both say.
- (5) menen-nun nanka-pe karr-me-n-kani
  edveg-DAT lduincS-go 3duSNF-say-PRES
  IMP
  'Let's both go for edible vegetables!' they both say.

(6) yu menen-nun nanka-pe yanken-kirrwa-nun yes edveg-DAT lplincS-go lduincA.3plO-dig-PUR

nanka-pe kan-me-nacan memempena-karran
1duincS-go 3sgfSNF-tell-3sgfD porpoise-ERG
IMP

'Yes, let's both go for vegetables!' porpoise told her.

(7) yu pa kak-nanka-pe
yes come on! go away-1duincS-goAUX
IMP

kan-me-m-parra-nacan muc-karran sgfSNF-tell-PRES-RET-3sgfD wallaby-ERG

'Yes, come on! Let's both go away' wallaby tells her back.

- (8) karr-par-a-n-kani karr-mi-n-kani kancerra 3duSNF-walk-NF-PRES 3duSNF-sitAUX-PRES bush They both walk off and sit in the bush.
- (9) naka-nun yec-p-pe nanana who-PUR 3sgfSFUT-FUT-go first

nace kan-me-nacan muc-karran-kak
1sgP 3sgfSNF-tell-3sgfD wallaby-ERG-Foc

'Who's to go first?' 'Me,' wallaby told her.

- (10) muc-pente-kak kan-par-a-m
   wallaby-now-Foc 3sgfSNF-walk-NF-PRES
   Wallaby goes now.
- (11) nulknawak-pente kanpa-ka-nca-m small children-now 3A.3plONF-take-NF-PRES

kan-mi-m-pørran-kani memempena-pøttun muc-pøttun 3sgfSNF-sitAUX-PRES-3duD porpoise-GEN wallaby-GEN

The small children, porpoise's and wallaby's, she sat and looked after, for them both.

(12) kan-par-a kanpi-kirrwa kan-pe-m 3sgfSNF-walk-NF 3A.3plONF-dig 3sgfSNF-goAUX-PRES

menen wunmarrac melnmeln ninic menen edveg long yam cheeky yam any kind edveg

She walked and went and dug long yams, cheeky yams, any kind of edible vegetable.

(13) marran ka-pø-mene aw cecarec goanna 3sgA.3sgmONF-kill-NF or possum

aw ninic mecem røcan
or any kind meat bandicoot

She killed goanna, or possum, or bandicoot, any meat.

- (14) e kawa kawa-parra ci-rak
   eh! Come! Come!-RET 3sgmDetang-country
   Eh! Come! Come back here!
- (15) mepan kanpu-turra kan-mi
  OK 3A.3plONF-cook 3sgfSNF-sitAUX

kanpi-Ø-nene kan-mi-m cenmiyic muc
3A.eat-NF 3sgfSNF-sitAUX-PRES 3sgfP wallaby

OK, wallaby, she sat and cooked them; she sits and eats them.

(16) kane-nte ne-pe menen kan-me-nacan muc-karran 2sgP-now 2sgSFUT-go edveg 3sgfSNF-tell-3sgfD wallaby ERG IMP
'It's your turn to go for tucker!' wallaby told her.

(17) kan-me-m-pakka-nacan kane-nte ne-pe
3sgfSNF-tell-PRES-re-3sgfD 2sgP-now 2sgSFUT-go
IMP

narr nace yana-nipe na-mu-win pampac
later 1sgP 1sgA.3sgfO-hold 1sgS-sitFUTAUX-2sgD baby
IMP IMP

memempena-pøttun pampac muc-karran kan-me-nacan porpoise-GEN baby wallaby-ERG 3sgfSNF-tell-3sgfD

'It's your turn to go' she told her. 'Let me sit and hold your baby, porpoise's baby, for you!' wallaby said to her.

(18) nuna-kak kan-par-a-m memempena-kak then-Foc 3sgfSNF-walk-NF-PRES porpoise-Foc

cenmiyic-pente menen wunmarrac melnmeln nalinkun 3sgfP-now edveg long yam cheeky yam baby yam

Then porpoise walks off, it's her turn for long yam, cheeky yam, baby yam.

- (19) pampac kan-ø-na-ŋ kan-pe
  baby 3sgfSNF-cry-NF-PRES 3sgfSNF-goAUX
  Her baby keeps on crying.
- (20) win-nun-pente kan-ukpica-nacan
  milk-DAT-now 3sgfSNF-call out-3sgfD
  She cried out to her for milk.
- (21) kan-icc-a kan-acc-e-n-cø
  3sgfSNF-ask-NF 3sgfSNF-goAUX-NF-PRES-CONT
  She keeps asking as she goes.
- (22) kan-ø-na-m rømetmet
  3sgfSNF-cry-NF-PRES heartbrokenly
  She's crying heartbrokenly.

- (23) kan-icc-a kan-par-a-n-cø

  3sgfSNF-ask-NF 3sgfSNF-walkAUX-NF-PRES-CONT
  She is asking as she walks.
- (24) memempena-kak kan-akaca-n-kak kan-icc-a-nacan porpoise-Foc 3sgfSNF-arrive-PRES-Foc 3sgfSNF-ask-NF-3sgfD Porpoise arrives and asks for her.
- (25) pampac-parra-nte nen-ce-pe kan-me-nacan baby-RET-now 2sgA.1sgfO-give-FUT 3sgfSNF-tell-3sgfD IMP memempena-karran porpoise-ERG

'You give me my baby back now!' porpoise told her.

- (26) kamanka
  Nothing.
- (27) kan-nuccica-m-parra-nte-kak-pana muc-karran 3sgfSNF-withhold-PRES-RET-now-Foc-3sgfIMPL wallaby-ERG Wallaby keeps her back from her now.
- (28) kamanka
  Nothing.

'No! I'll never give you this baby. It's mine forever!

(30) kan-ø-na-ŋ kan-pe
3sgfSNF-cry-NF-PRES 3sgfSNF-goAUX
She (the baby) keeps crying.

(31) nen-ce-parra werret kan-me-nacan
2sgA.give-RET quick 3sgfSNF-tell-3sgfD

wing-nun nak-yanan-paka milk-DAT mouth-1sqA.3sqfO-stab

'You give me (her) back quick so I can breast-feed her', she told her.

- (32) kamanka
  Nothing.
- (33) kan-nuccica muc-karran-pana
  3sgfSNF-withhold wallaby ERG-3sgfIMPL
  Wallaby withheld her.
- (34) win wa-wu-cø cenmiyic memempena stick 3A.30-grab-CONT 3sgfP porpoise Porpoise was grabbing a stick.
- (35) purr-kan-icca pampac pørak howl-3sgfSNF-askAUX baby little The little baby howls.
- (36) win wa-wu-cø stick 3A.30-grab-CONT She was grabbing a stick.
- (37) kutti-nun-pente yanan-pø-nun kan-me fight-DAT-now 1sgA.3sgfO-hit-PUR 3sgfSNF-say 'I'm going to kill her', she said.
- (38) cenmiyic muc wa-wu-parra lankurr 3sgfP wallaby 3sgA.3O-grab-RET club Wallaby's response was to grab a club.
- (39) cenmiyic lankurr nancic
  3sgfP club one
  She (porpoise), (grabbed) another club.

- (40) pa karr-pø-ca karr-pe-ŋ-kani
  Come on! 3plSNF-hit-REC 3duSNF-goAUX-PRES
  Come on! They keep clouting each other.
- (41) pampac-pente karr-ø-na karr-mi-ŋ-kani child-now 3plSNF-cry-NF 3duSNF-sitAUX-PRES

muc-pøttun memempena-pøttun wallaby-GEN porpoise-GEN

It's the children's turn to sit and cry, wallaby's and porpoise's.

- (42) karr-pø-ca-m karr-pe-n-kani 3plSNF-hit-REC-PRES 3duSNF-goAUX-PRES They both keep on hitting each other.
- (43) carakkukku-kka para nuk-kan-i-na suddenly-re arm break-3sgA.3sgfONF-put downAUX-NF

muc-kak memempena-karran wallaby-Foc porpoise-ERG

Suddenly, porpoise broke wallaby's arms.

(44) muc para nuk-kan-i-na
wallaby arm break-3sqA.3sqfONF-put downAUX-NF

win-cene lankurr para nuk-kan-i-na stick-INS club arm break-3sgA.3sgfONF-put downAUX-NF

She broke wallaby's arms, she broke her arms with a stick.

(45) nankarra-makka-kka kan-pø-mene-m again-PERF-re 3sgA.3sgfONF-hit-NF-PRES

muc-karran nanana pøce kan-cetpe wallaby-ERG first head 3sgA.3sgfONF-take out

She hit her because wallaby took a slice out of her head first.

- (46) memempena wik ka-wakaca-m ce-pene yura porpoise water 3sgmSNF-come out-PRES 3sgmDetang-LOC hole Water came out of porpoise at this hole.
- (47) nankarra-nte kan-pø-mene again-now 3sgA.3sgfONF-hit-NF

memempena-karran para nuk-kan-i-na
porpoise-ERG arm break-3sgA.3sgfONF-put downAUX-NF

So porpoise hit her and broke her arms.

- (49) pickulø-karr-icca-n-kani-pente change shape-3duSNF-askAUX-PRES-now At once, they're starting to change shape.
- (50) muc-kak pickulø-kan-icc-a wallaby-Foc change shape-3sgfSNF-askAUX-NF

pampac ka-ma-nana-m memempena-pøttun-kak baby 3sgA.3sgmONF-pick up-NF-PRES porpoise-GEN-Foc

kan-currka kan-currka-m-pente kan-par-a
3sgfSNF-jump 3sgfSNF-jump-PRES-now 3sgfSNF-walkAUX-NF

Wallaby changes shape, picks up porpoise's child and hops off.

(51) na-pe-me-nun-pe na-p-pe nace kan-me-nacan lsgS-FUT-be-PUR-ever lsgS-FUT-goAUX lsgP 3sgfSNF-tell-3sgfl 'I'm going to be me for ever', she told her.

(52) cenmiyic-pente pampac kan-ø-na 3sqfP-now baby 3sqfSNF-cry-NF

> kan-mi-m-parra muc-pøttun 3sgfSNF-sitAUX-PRES-RET wallaby-GEN

As for wallaby's baby, her response was to sit and cry.

(53) kan-tut-mene yenere-kan-kunme
3sgA.3sgfONF-leave-NF steal-3sg.3sgfONF-takeAUX

kan-par-a memempena-pøttun pampac

3sgfSNF-walkAUX-NF porpoise-GEN baby

(Wallaby) abandoned her, and went and stole porpoise's baby.

(54) karrunmalananan pampac cenmiyic-pøttun-kak beautiful baby 3sgfP GEN Foc

memempena-pøttun muc-pøttun-kak cenulukpa porpoise GEN wallaby-GEN-Foc no good

cenulukpa pampac cenena no good baby 3sgfDeaud

Her baby, porpoise's was beautiful; wallaby's was no good- that one was no good.

(55) ka-n-ene-n kan-mi pampac 3sgA.3sgfONF-see-NF-PRES 3sgfSNF-sitAUX baby

memempena-karran kan-kunme-Ø parrkkatta porpoise-ERG 3sgA.3sgfONF-take-NF two

karral kan-kapica nørrec-pene leg 3sgA.3sgfONF-throw away pandanus-LOC

Porpoise sits and looks at the child; she picked her up by both legs and chucked her away into the pandanus.

(57) nuna kanø-na kan-pe kittil kittil kittil then 3sgfSNF-cry-NF 3sgfSNF-goAUX

kan-ø-na cepena muc-pøttun pampac-kak 3sgfSNF-cry-NF 3sgfDeaud wallaby-GEN baby-Foc

nørrec-pene pandanus-LOC

Then that baby of wallaby cried and became white frog in the pandanus.

- (57) cenmiyic-pente puc kan-par-a-cena nalkin-pene 3sgfP-now straight 3sgfSNF-walkAUX-NF-run sea-LOC It's porpoise's turn to run straight into the sea.
- (58) pap kan-currka-m-kak kan-ana up 3sgfSNF-jump-PRES-Foc 3sgfSNF-dive

mipe-kan-akaca-m-kak
eye-3sgfSNF-come out-PRES-Foc
She jumped up, she dived, she surfaced and looked.

- (59) wik ka-wakaca-pøce-pene-pana water 3sgSNF-come out-head-LOC-3sgfIMPL Water came out of her head.
- (60) ci nancic nala kan-ana-n-cø
  3sgmDetang one hand 3sgfSNF-dive-PRES-CONT
  She's diving one more time.
- (61) mipe-kan-akaca wik ka-wakaca eye-3sgfSNF-come out water 3sgmSNF-come out She surfaced, looked and water came out.
- (62) na-pe-me-nun-pe na-p-pe nace 1sgS-FUT-be-PUR-ever 1sgS-FUT-goAUX 1sgP

memempena-nun-pente na-p-pe nace-kak porpoise-DAT-now 1sqS-FUT-qoAUX 1sqP-Foc

kan-me-m-pente-kak
3sgfSNF-say-PRES-now-Foc

'As for me, I'm going to be porpoise for ever' she says.

(63) pampac-pente ka-kapica-m \_\_nørrec-pene baby-now 3sgA.3sgmO-throw away-PRES pandanus-LOC

cica kittil kittil-kak muc-pøttun pampac 3sgmDevis white frog-Foc wallaby-GEN baby

kittil kittil ka-yepe-rran-nini paypay-kak white frog 3sgfSNF-lie-HAB-PLAC white-Foc

cawana-kak muc-pøttun-nacan pampac 3sgmDeaud-Foc wallaby-GEN-3sgfD baby

The baby she throws away into the pandanus, that white frog, wallaby's baby, always lies in that place, for her, that white one, wallaby's child.

(64) cenmiyic-kak nuna kan-par-a-m-pente
3sgfP-Foc then 3sgfSNF-walk-NF-PRES-now

memempena-kak na-pe-me-nun na-p-pe porpoise-Foc 1sgS-FUT-be-PUR 1sgS-FUT-go

nace-kak memempena-kak
1sqP Foc porpoise Foc

Then porpoise goes, (saying): 'As for me, I'm going to be porpoise for ever'.

(65) perrmen The end.

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