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Chester S. Street

# O. ORTHOGRAPHIC SYMBOLS

The language spelling used throughout this paper is the literacy orthography, which is explained more fully in the following tables.

Table 1
VOWELS

	Front	Non-front		
High	1	u		
Non-high	е	a		

Table 2 CONSONANTS

	Labial	Apico- alveolar	Retro- flexed	Lamino- a-pal.	Velar
Voiceless Obstruents	Р	t	rt	th	k
Voiced * Obstruents	b	d	rd	dh	g
Nasals	m	n	rn	n h	ng
Laterals		1	rl	ly	
Medians	W	rr	r	У	

 $<sup>^*</sup>$ dh is a fricative, b, d, rd and g are stops.

The Lamino alveo-palatal voiceless obstruent, voiced obstruent and nasal each have two allophones as follows. The dental allophones  $[\underline{t}, \underline{d}, \underline{n}]$  only precede the non-front vowels a and u. The Lamino alveo-palatal allophones  $[\underline{t}, \underline{d}, \underline{n}]$  only precede the front vowels i and e.

# Examples of the voiceless obstruent allophones:

thapak	[tapak]	'fog/dew'
thimu	[ţimu]	'nose'
madhalnu	[maelalnu]	'I'll open it.'
d he k d he k	[gekgek]	'to play'
punhu	[pu <u>n</u> u]	'liver'
kanhi	[kañi]	'this/here'

# 0.1. ABBREVIATIONS

a-pal.	alveo-palatal
C	consonant
du.	dual (i.e. two)
f.	female (i.e. a group of whom at least one is a female)
HA	habitual aspect
IO	indirect object
m.	male (i.e. a total male group)
NC	noun class
neg.	negative
pc.	<pre>paucal (i.e. a group numbering from three to approximately fifteen)</pre>
pl.	plural
R	reduplicated
sb.	siblings (i.e. brothers, sisters, or brothers and sisters)
sg.	singular
t.	tense
V	vowel

#### INTRODUCTION

"Reduplication is a morphological process that consists of the repetition of all or part of a root, stem or word in order to fulfil a specific semantic or syntactic function." (Johnston 1977:1) Or as described by Gerson (1969:59) in his useful little book on grammatical terms, "Reduplication is the repetition of the whole, or part, of a word, in order to form a derivative or inflected form."

This paper is an attempt to show the semantic function and phonological conditioning of reduplication in Murinbata 1.

### 2. THE NATURE OF REDUPLICATION IN VARIOUS LANGUAGES

Johnston's (1977:2,3) recent research has surveyed functions of reduplication in a number of languages as reported in the literature.

Berlin's (1963) work on the Tenejapa dialect of Tzeltal concluded that:

...the semantic features of <u>augmentation</u>, <u>continuation</u>, <u>intensification</u> (...), and to some extent <u>onomatopoeia</u> (as in the case of particles) are accomplished by the morphological process of reduplication.

Berlin lists the following kinds of intensification:

- (i) Quantity (i.e. substantival);
- (ii) Process (i.e. verbal);
- (iii) Quality (i.e. adjectival).

Key (1965) surveyed reduplication in 47 languages, mainly meso-American, and, according largely with Berlin, concluded that "Reduplication functions in many languages to indicate emphasis, or some shade of plurality or augmentative."

Murinbata belongs to the Garaman language family which is a member of the Australian Macro-phylum family (Voegelin and Voegelin, 1977:135). It is spoken by approximately 900 people, the majority of whom live at Port Keats, N.T., 250 kilometres to the southwest of Darwin. A small number live on nearby cattle stations, with the largest groups at Auvergne Station N.T. and Kununurra, W.A.

The author wishes to sincerely thank Murinbata language helpers Harry Palada Kulampurut and Jumbo Dithi Dulla for their patient, willing and most able help in providing the data upon which this paper is based.

Thanks is also due to Noreen Pym (S.I.L.) for her very able and patient editorial assistance given in the production of this paper.

Early work surveying reduplication in Oceanic Austronesian languages was descriptive in character and was concentrated on Melanesia (Codrington 1885; Ray 1907; Capell 1937-39).

Codrington (1885:147, 191) found that reduplication applied to nouns and verbs, indicating for nouns qualities of plurality, magnification, and depreciation, and for verbs, qualities of repetition, continuation, and emphasis. Ray (1907:445ff, 461), reporting on southeastern Papua, found the same functions for reduplication in languages of that region, as Codrington had found in island Melanesia.

Capell (1937-39:770) also surveyed reduplication in south-eastern Papua, listing a number of functions of reduplication: (i) Intensification (ii) diminution (iii) formation of nouns from verbs (iv) marking of plurality and the collective function in nouns (v) the formation of adjectives (vi) the formation of the continuous tense in verbs (vii) the formation of nouns of instrument (according to Capell this is rare in Papua) (viii) the formation of a special form of the verb for use with the negative (which feature he attests only in Dobuan).

For Australian languages, Tryon (1970:13, 50) in his study of the Daly River languages, has discovered the wide usage of reduplication in these languages. In his analysis on one of these languages, Maranungku, he reports that reduplication of adjectives and verbs is a means of stressing plurality.

Also on Australian languages, Douglas (1964:78, 80) reports that, "Reduplication of adjectives may indicate an increased intensity of the state, or that the description covers a plural subject." He also shows how an adjective is formed by the reduplication of a noun stem.

### 3. THE NATURE OF REDUPLICATION IN MURINBATA

The discoveries made by the researchers mentioned above form a valuable introductory background to reduplication, as well as providing an introduction to the nature of reduplication in Murinbata.

The function of reduplication in Murinbata verbs, nouns and adjectives is:

VERBS: i) plurality, repetition, (habitual aspect)

- ii) the formation of nouns
- iii) the formation of adjectives

NOUNS: plurality, emphasis

ADJECTIVES: plurality, augmentation

In concluding this section, it can be seen from above that a characteristic of reduplication in Murinbata is the distinctive division of function between verbs, nouns and adjectives, which is particularly noticable between verbs and nouns/adjectives.

### 4. REDUPLICATION IN VERBS

# 4.1. PLURALITY, REPETITION, (HABITUAL ASPECT)

When a verb root is reduplicated, either totally or partially, it signals either plurality of object or repetition of action, depending upon the verb being transitive or intransitive (Street 1977). Another factor also to take into consideration is whether or not the verb is marked to show some sort of plurality by incorporated object affixes. This complex set of affixes, if incorporated can slightly change the meaning of the reduplicated form. The meanings therefore, of reduplicated verb roots are seen to be as follows:

INTRANSITIVE VERBS: repetitive action (this is in contrast to a continuous action which is shown by a continuous aspect marker. Aspect markers are not covered in this paper.)

TRANSITIVE VERBS - without incorporated object affixation: plurality (i.e. more than one) of object

TRANSITIVE VERBS - with incorporated object affixation: a repetitive action towards the object(s)

It has been observed that the incorporated object affixes, used with the transitive verbs to indicate plurality, are normally only used when the object is human, or sometimes, as a matter of interest, if the object is a dog. (Dogs are put on a higher status than other animals, and are also included into the kinship system - see example 9.) Other animate and inanimate objects can be pluralised by the use of object affixation, but generally this is only done for emphasis or focus on that particular object(s). (See Appendix 1 for a complete paradigm of incorporated object affixes.)

At this point it needs to be said that not all verb roots can be reduplicated, either totally or partially, and there appears to be no logical explanation for this, either phonological or semantic. For a non-exhaustive list of verb roots which can be reduplicated, either totally or partially, see Appendix II.

Although not particularly related to the topic of this paper, Appendix III has a non-exhaustive list of verb roots that do not reduplicate, but rather substitute for another verb root to convey the meaning of plurality or repetitive action.

# 4.1.1. Reduplication and Aspect

"Aspect shows the way the action was thought of or looked at by the speaker." (Gerson 1969:9)

Although aspect is not a productive function of reduplication, it has been included here because it is particularly relevant to the habitual aspect, in which the verb root in the reduplicated form, either totally or partially, is always used. This will be discussed more fully in a forthcoming paper on Tense, Mood and Aspect in Murinbata. See examples 2b, 6b, 7b and 17b.

#### **EXAMPLES:**

- (la) thamul ngu-dal-nu ngarra thay spear I(sg.)-stand against-t. at tree 'I'll stand the spear against the tree.'
- (1b) thamul ngu-dadal-nu ngarra thay
  spear I(sg.)-stand against(R)-t. at tree
  'I'll stand the spears against the tree.'
- (2a) thelput ba-n-pak
  house he(sg.)-t.-put
  'He put (built) a house.'
- (2b) thelput ba-n-pakpak wurran house he(sg.)-t.-put(R) HA
  'He always puts (builds) houses.'
- (3a) ku ngalmungkirr mere yungi-purl-dha

  NC pied goose neg. he(sg.)-pluck-t.

  'He didn't pluck the pied goose.'
- (3b) ku ngalmungkirr mere yungi-wurlpurl-dha
  NC pied goose neg. he(sg.)-pluck(R)-t.
  'He didn't pluck the pied geese.'
- (4a) ku menti ba-rde-nu
  NC turtle I(sg.)-hit-t.
  'I'll hit the turtle.' (1.e. to kill it)
- (4b) ku menti ba-rderde-nu
  NC turtle I(sg.)-hit(R)-t.
  'I'll hit the turtles.' (i.e. to kill them)
- (5a) ku were pirra-ngarl-nu
  NC dog he(sg.)-bark-t.
  'The dog will bark.'

- (5b) ku were pirra-ngarlngarl-nu

  NC dog he(sg.)-bark(R)-t.

  'The dog will repeatedly bark.'
- (6a) nakurl nge-wirnturt-nu
  after I(sg.)-arise-t.
  'I'll get up later.'
- (6b) nakurl nge-wirnturturt-nu ngurru
  after I(sg.)-arise(R)-t. HA
  'Later I'll always he getting up.'
- (7a) nanthi yi ma-m-kale ngarra thay

  NC dilly bag she(sg.)-t.-hang in tree

  'She hung the dilly bag in the tree.'
- (7b) nanthi yi ma-m-kalele wurran ngarra thay
  NC dilly bag she(sg.)-t.-hang(R) HA in tree
  'She always hangs the dilly bag(s) in the tree.'
- (8a) ma-m-ngan-karlay
  he(sg.)-t.-we(pl.)-wave
  'He waved to us.'
- (8b) ma-m-ngan-karlarlay
  he(sg.)-t.-we(pl.)-wave(R)
  'He repeatedly waved to us.'
- (9a) ku were thu-rte-nu

  NC dog you(sg.)-remove-t.

  'You will remove the dog.'
- (9b) ku were thu-n-rte-nu

  NC dog you(sg.)-they(pl.)-remove-t.

  'You will remove the dogs.'
- (9c) ku were thu-n-rterte-nu

  NC dog you(sg.)-they(pl.)-remove(R)-t.

  'You will repeatedly remove the dogs.'
- (10a) kunginire nganthi-n-punku-thut
  yesterday I(sg.)-t.-they(du.sb.)-descend
  'Yesterday I took the two siblings down.'
- (10b) kunginire nganthi-n-punku-dhutthutthut
  yesterday I(sg.)-t.-they(du.sb.)-descend(R)
  'Yesterday I repeatedly took the two siblings down.'

NOTE: This verb is actually a unique retriplication of the verb root, rather than a reduplication.

## 4.2. THE FORMATION OF NOUNS

A large number of verb roots can be reduplicated, either totally or partially, to form a free form noun.

The following list gives a good sample of this particular function of reduplication.

English of Verb	Verb Root	Formed Noun	English of Noun		
to vomit	be	bebe	vomit		
to shower/cool off	dhuth	thudhuth*	a shower (place)		
to cross a river	kath	kathkath	a bridge		
to wade	kubuk	kubukubuk	swampy area		
to sharpen	kurrk	kurrkurrk	sharpening tool (a file)		
to paint	pak	pakpak	a paint brush		
to comb	pek	pekpek	a comb		
to wash	purl	purlpurl	a washing place		
to sweep	puth	puthputh	a broom		
to paint on spots	thak	thakthak	a spot(s)		
to dive	thurrk	thurrthurrk	a diving place		
to rake	werr	werrwerr	a rake		
to smoke	wi	wiwi	a cigarette		
to sit	wup	wupup	a seat/chair		

<sup>\*</sup>The voiced dh is replaced by its voiceless counterpart th because dh never occurs word initial.

# 4.3. THE FORMATION OF ADJECTIVES

A small number of verb roots can also be reduplicated, either totally or partially, to form a free form adjective.

Some adjectives thus formed also take the adjectival affix -mam- (as do some other adjectives) and some do not take it. There is no apparent reason for this.

The list below gives a sample of this particular function of reduplication.

English of Verb	Verb Root	Formed Adjective	English of Adjective
to be cool	burr	burrburr	cold
to be bogged/stuck	dharrkat	tharrkat-* tharrkatmam	boggy (ground)
to stick	let	letetmam	sticky
to move fast	puyut	puyutpuyut	fast
to abuse/swear	thelk	thelkthelk	abusive/swear (word)
to smooth	tidhal	tidhaltidhalmam	smooth/slippery
to dry	tum	tumtum	dry
to open eyes wide	walngka	walwalmamka	wide opened (eyes)

<sup>\*</sup>The voiced dh is replaced by its voiceless counterpart th because dh never occurs word initial.

# 5. REDUPLICATION IN NOUNS

### Plurality, Emphasis

The basic function of reduplication in nouns is that of plurality; and secondary to this emphasis which is used only in kinship terminology to indicate actual relationships in contrast to the extended meaning of the kinship terminology.

The reduplicating process with nouns is that of total reduplication. Within a clause, noun reduplication is not always strictly adhered to to express plurality. It becomes somewhat redundant in its function of indicating plurality because of the use of verb root reduplication and its function of indicating plurality, (see examples 1b, 2b, 3b, 4b, 16b, 19b, 20b) and also the fact that subject and/or object are shown in the verb indicating singularity or various degrees of plurality (see examples 9b, 9c).

### **EXAMPLES:**

(11)	kale	'mother (sg.)'
	kalekale	'mothers (pl.)' or 'mother (actual)'
(12)	mangka	'father's mother (sg.)'
	mangkamangka	'father's mothers (pl.)' or 'father's mother (actual)'

(13) ku were 'dog' ku werewere 'dogs'

### 6. REDUPLICATION IN ADJECTIVES

## Plurality, Augmentation

The basic function of reduplication in adjectives is that of plurality; and secondary to this, to only some adjectives, a function of augmentation has been observed.

The reduplicating process with adjectives is that of total reduplication.

As with the reduplicated nouns, the reduplication of adjectives within a clause is not usually adhered to to express plurality. It becomes somewhat redundant in its function of indicating plurality because of the use of verb root reduplication and its function of indicating plurality, and also the fact that subject and/or object are shown in the verb indicating singularity or various degrees of plurality.

#### **EXAMPLES:**

- (14a) ku nintu ngala NC horse big 'A big horse.'
- (14b) ku nintu ngalangala

  NC horse big(R)

  'Many big horses.'
- (15a) ngalthe
  narrow
  'Narrow.'
- (15b) ngalthengalthe
   narrow(R)
   'Very narrow/close.'

NOTE: When a modified noun phrase is expressed in the plural, only the adjective is reduplicated, not the noun and the adjective. For example, ku nintunintu ngalangala is not acceptable.

# 7. PHONOLOGICAL CONDITIONING OF REDUPLICATION IN VERBS

The phonological conditioning of reduplicating, either totally or partially, the verb root, differs slightly depending upon its function. That is, whether the reduplicated form is:

- (a) remaining as a verb root conveying the meaning of plurality or repetition, or
- (b) being formed into a noun or adjective.

Total reduplication is the norm in Murinbata, but there are also many cases where only partial reduplication occurs. In such cases reduplication is reduced to either the verb root plus the initial CV

of the verb root in the preceding position, or the verb root plus the final VC of the verb root in the following position. That is: CVCVC or CVCVC (the verb root, CVC in this case, has been underlined for clarity).

A survey of reduplicated verb roots in Murinbata revealed that, in the case of (a) above, 53% of the verb roots were totally reduplicated, 20% were reduplicated using the final VC of the verb root, and 27% were reduplicated using the initial CV of the verb root.

In the case of (b) above, 92% of the verb roots were totally reduplicated, 4% were reduplicated using the final VC of the verb root, and 4% were reduplicated using the initial CV of the verb root.

There appear to be no hard and fast rules why some verb roots are totally reduplicated and others are only partially reduplicated, but the following observations have been made:

1. Verb roots with a CV or combination of CV patterns (i.e. CVCV, CVCVCV, etc.) are always totally reduplicated.

### **EXAMPLES:**

- (16a) thay ngani-la-nu

  tree I(sg.)-climb-t.

  'I'll climb the tree.'
- (16b) thay ngani-lala-nu
  tree I(sg.)-climb(R)-t.
  'I'll climb the trees.'
- (17b) ma-m-nintha-wiyewiye kanam
  (3rd p.)-t.-du.m.-err(R) HA
  'Those two men always do it wrong.'
- 2. Closed syllable verb roots, of any pattern, where the initial and final C's are obstruents, nasals, or combination obstruent/nasal, nasal/obstruent, are in most cases, totally reduplicated.

# **EXAMPLES:**

- (18a) ngunga pani-num-nu
  sun he-set-t.
  'The sun will set.'
- (18b) ngunga pani-numnum-nu purru sun he-set(R)-t. HA 'The sun will always set.'

- (19a) mi yidi nga-mpa-mut-nu

  NC wild apple I(sg.)-you(sg.-I0)-give-t.

  'I'll give you a wild apple.'
- (19b) mi yidi nga-mpa-mutmut-nu NC wild apple I(sg.)-you(sg.-IO)-give(R)-t.'I'll give you many wild apples.'
- (20a) nanthi ngila-tum-nu

  NC I(sg.)-dry-t.

  'I'll dry the thing.'
- (20b) nanthi ngila-tumtum-nu

  NC I(sg.)-dry(R)-t.

  'I'll dry many things.'
- (21a) ku lawarnka punu-kert-nu
  NC wallaby he(sg.)-hop-t.
  'The wallaby will hop (once).'
- (21b) ku lawarnka punu-kertkert-nu
  NC wallaby he(sg.)-hop(R)-t.
  'The wallaby will repeatedly hop.'
- 3. Verb roots, other than those accounted for in 1. and 2. above, are normally partially reduplicated, by either using the initial CV of the verb root in the preceding position, or the verb root plus the final VC of the verb root in the following position.

# EXAMPLE USING THE INITIAL CV OF THE VERB ROOT:

- (22a) mi ma-larr-nu

  NC I(sg.)-wrap-t.

  'I'll wrap the food.'
- (22b) mi ma-lalarr-nu

  NC I(sg.)-wrap(R)-t.

  'I'll wrap all the food.'

### EXAMPLE USING THE FINAL VC OF THE VERB ROOT:

- (23a) ku thithay ma-rlart-nu

  NC sugarbag I(sg.)-extract-t.

  'I'll extract the sugarbag.'
- (23b) ku thithay ma-rlartart-nu

  NC sugarbag I(sg.)-extract(R)-t.

  'I'll extract all the sugarbag.'

#### 7.1. EXCEPTIONS

Two exceptions need to be pointed out here.

1) Some verb roots when reduplicated to form a noun or adjective, for some unknown reason, take the prefix nl-.

### **EXAMPLES:**

Verb Root

ye niyeniye 'a promise'
yith niyithniyith 'a story'
ngke ningkeningke 'jealous'

2) When a verb root is made up from more than one morpheme, only the last morpheme of the root is reduplicated, either totally or partially. This reduplicated part is then positioned immediately preceding the last morpheme.

#### **EXAMPLES:**

The verb root in the following example is made from the morphemes ti + birl = tibirl.

- (24a) da-n-tibirl
  he(sg.)-t.-light
  'He lit (the fire).'
- (24b) da-n-tirlbirl
  he(sg.)-t.-light(R)
  'He lit (the fires).'

The verb root in the following example is made from the morphemes winhi + marda + pak = winhimardapak.

- (25a) ngarra tin kura patha pa-winhimardapak-nu in tin water good he(sg.)-pour into-t.

  'He'll pour the fresh water into the tin.'
- (25b) ngarra tin kura patha pa-winhimardakpak-nu in tin water good he(sg.)-pour into(R)-t.

  'He'll pour the fresh water into the tins.'

NOTE: The reduplicated part of the verb in these examples is irl and ak respectively. However, because there are no VV clusters in the language the vowels have been deleted in both instances.

# APPENDIX I

## PARADIGM OF INCORPORATED OBJECT AFFIXES

A complete paradigm of incorporated object affixes are here given using the verb 'to wave'. The incorporated subject prefix 'he' (third person singular) has been used in these examples.

```
verb root is ..... -ngkarlay-
subject prefix is .... ma-
tense (future) is .... -nu-
```

In this paradigm the incorporated object affixes are in upper-case for clarity.

ma-NGI-ngkarlay-nu	'He	will	wave	to	ME.'
ma-NGANKU-ngkarlay-nu-NINTHA	'He	will	wave	to	US.' (dual male)
ma-NGANKU-ngkarlay-nu-NGINTHA	'He	will	wave	to	US.' (dual female)
ma-NGANKU-ngkarlay-nu	'He	will	wave	to	US.' (dual sibling)
ma-NGANKU-ngkarlay-nu-NEME	'H $e$	will	wave	to	US.' (paucal male)
ma-NGANKU-ngkarlay-nu-NGIME	'He	will	wave	to	US.' (paucal female)
ma-NGAN-karlay-nu	'He	will	wave	to	US.' (paucal sibling and plural)
ma-NHE-ngkarlay-nu	'He	will	wave	to	US.' (dual inclusive)
ma-NHE-ngkarlay-nu-NEME	'He	will	wave	to	US.' (paucal male inclusive)
ma-NHE-ngkarlay-nu-NGIME	'He	will	wave	to	US.' (paucal female inclusive)
ma-NHi-ngkarlay-nu	'He	will	wave	to	YOU.' (singular)
ma-NANKU-ngkarlay-nu-NINTHA	'He	will	wave	to	YOU.' (dual male)
ma-NANKU-ngkarlay-nu-NGINTHA	'He	will	wave	to	YOU.' (dual female)
ma-NANKU-ngkarlay-nu	'He	will	wave	to	YOU.' (dual sibling)
ma-NANKU-ngkarlay-nu-NEME	'He	will	wave	to	YOU.' (paucal male)
ma-NANKU-ngkarlay-nu-NGIME	'He	will	wave	to	YOU.' (paucal female)
ma-NAN-karlay-nu	'He	will	wave	to	YOU.' (paucal sibling and plural)

```
ma-Ø-ngkarlay-nu 'He will wave to HIM/HER.'

ma-NKU-ngkarlay-nu-NGINTHA 'He will wave to THEM.' (dual male)

ma-NKU-ngkarlay-nu-NGINTHA 'He will wave to THEM.' (dual female)

ma-NKU-ngkarlay-nu 'He will wave to THEM.' (dual sibling)

ma-NKU-ngkarlay-nu-NEME 'He will wave to THEM.' (paucal male)

ma-NKU-ngkarlay-nu-NGIME 'He will wave to THEM.' (paucal female)

ma-N-karlay-nu 'He will wave to THEM.' (paucal sibling and plural)
```

For third person only, the incorporated object affixes in the perfect tense (Street 1975:24-6), have a different form from the imperfect incorporated object affixes shown above. This remaining paradigm is given below. (The perfect tense is marked by -m-.)

ma-m-Ø-karlay

"He waved to HIM/HER.'

ma-m-PUNKU-ngkarlay-NINTHA

"He waved to THEM.' (dual male)

ma-m-PUNKU-ngkarlay-NGINTHA

"He waved to THEM.' (dual female)

ma-m-PUNKU-ngkarlay

"He waved to THEM.' (dual sibling)

ma-m-PUNKU-ngkarlay-NEME

"He waved to THEM.' (paucal male)

ma-m-PUNKU-ngkarlay-NGIME

'He waved to THEM.' (paucal female)

ma-m-PUN-karlay

'He waved to THEM.' (paucal sibling and plural)

APPENDIX II
LIST OF VERB ROOTS THAT REDUPLICATE

Below is a non-exhaustive list of verb roots that can be reduplicated, either totally or partially.

English of Verb	Verb Root	Reduplicated Verb Verb Root
to throw/shoot	bat	batbat
to fail	bay	baybay
to vomit	be	bebe
to bark (dog)	bek	bekbek
to plant/bury	birr	birrbirr
to drink	guduk	guduguduk
to call out	kay	kaykay
to hop	kert	kertkert
to collect	kut	kutkut
to climb	la	lala
to give	mu t	mutmut
to bark (dog)	ngarl	ngarlngarl
to set (sun)	num	numnum
to yell	pa	papa
to put	pak	pakpak
to be frightened	part	partpart
to take off	pit	pitpit
to pluck (bird)	purl	purlpurl
to remove	puth	puthputh
to hit	rde	rderde
to enter	rdi	rdurdi
to remove (dog)	rte	rterte

to undo	tereth	terethtereth
to tighten	te	tete
to blow didjeridu	t hu	thuthu
to send	thuk	dhukthuk
to descend	thut	dhutthutthut
to dry	t um	tumtum
to roll up	wekarl	wekarlwekarl
to err	wiye	wiyewiye
to turn off	wuteth	wutethwuteth
to rain	y e l	yelyel
to turn head around	birl	bibirl
to stand against	dal	dadal
to fill up	dhalet	dhaletet
to light (tobacco)	dhawibu	dhawibubu
to fold	guruk	guguruk
to wrap	larr	lalarr
to stick	let	letet
to hang up	ngkale	ngkalele
to wave	ngkarlay	ngkarlarlay
to go early	рар	pawap
to lay (tr.)	pup	puwup
to find	rdurt	rdurturt
to turn over	rduy	rdurduy
to extract	rlart	rlartart
to cut	rtal	rtartal
to pull	rurr	rurrurr
to touch	thap	dhadhap
to drag (net)	tuth	tututh
to dig	tuy	tutuy
to lay (egg)	wak	wawak
to pour into	winhimardapak	winhimardakpak
to pour/spill	winhipak	winhekpak
to whistle	winh	winhinh
to arise	wirnturt	wirnturturt
to erase	yerrarr	yerrarrarr

APPENDIX III
LIST OF VERB ROOTS THAT DO NOT REDUPLICATE

Below is a non-exhaustive list of verb roots that do not reduplicate but rather substitute for another verb root to convey the meaning of plurality or repetitive action.

English of Verb	Verb Root	Verb Root conveying Plurality or Repetition
to fall	bat	wat
to take/bring	bath	ngkadhuk
to shut	dhap	dhawup
to open	dhal	d ha l u l
to be bogged/stuck	dharrkat	dharrarr
to cut hair	kat	yerrarr
to cross river	kath	kawurrk
to get into	mardap	mardapup
to extinguish fire	ngkan	ngkarrarr
to replace	ngkarl	ngkalath
to provoke	ngurru	ngurrath
to tear	ngurruduk	ngurrurduk
to get	rt	kut
to catch	rta	ngawurt
to jump	wa l	lal
to fit handle	wengkay	wengkawurr
to pick up	winterl	winterlparl
to sleep	wit	rrit
to turn on	wum	mum
to sit	wup	pup
		Pup

to get water	wurl	luri
to exit	wuy	wurr
to drop	yegarl	yimpurr
to listen	yepup	yewup
to look out	yerr	yelerr
to go	ø	wat

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# CONTINUOUS AND DISCONTINUOUS NOUN PHRASES IN NYANGUMARDA

Helen Geytenbeek

### O. PREFACE

The Nyangumarda language is spoken by about 700 Aborigines along the northwest coast of Australia, between Port Hedland and Broome, and inland around Marble Bar. Of this number, about 500 claim it as their own or their first language, while the rest are from other much smaller language groups who use Nyangumarda as a lingua franca.

Nyangumarda is a member of the Marngu sub-group of the Southwest Group of the Pama-Nyungan language family. It is coded as A61 by the Australian Institute of Aboriginal Studies. References to it are made in A Revised Linguistic Survey of Australia (Oates and Oates, ed.) 1970: 87; the 1973 Supplement to the Revised Linguistic Survey, vol. I:129-30; and in Classification and Index of the World's Languages by Vogelin and Vogelin 1977:223.

The data on which this paper is based was collected at Marble Bar, between February 1972 and March 1973, and at 'Twelve Mile' (now the Tjalku Wara Community Inc.), near Port Hedland, between July and October 1973, and between February 1976 and June 1977.

While many members of both communities have contributed to our knowledge of the language, our main helpers have been Mrs Lily Darby, formerly of Marble Bar and now of South Hedland, and Mr. Jack Horace of Tjalku Wara. We are greatly indebted to them.

This paper was written at a workshop run by the Summer Institute of Linguistics, in Darwin in August 1977. I am grateful for consultant help from Noreen Pym and Alan Healey.

## 0.1. ABBREVIATIONS

- first person 1 second person 3 third person conjunction con.j dative dat destination dest du dual ergative erg eх exclusive locative loc nf non-future nom nominative poss possessive pl plural repetitive rep singular source sce verbaliser vb
  - joins two or more English words representing one

    Nyangumarda morpheme in morpheme-by-morpheme translation

#### 0.2. ORTHOGRAPHY

The orthography used for this paper is the one which is being used in literacy materials for the Nyangumarda language. The following symbols are used: bilabials p, m; lamino-dentals j, ny, ly; apico-alveolars t, n, l, rr; apico-domals rt, rn, rl; velars k, ng; semi-vowels w, y, r; and vowels i, a, u.

In word initial position the contrast between t and rt, between n and rn, and between l and rl is neutralised. The apico-alveolar series has been chosen to represent these neutralised consonants.

When two apico-domals e.g. rn + rt occur in a cluster they are symbolised thus: rnt.

## 0.3. INTRODUCTION

The purpose of this paper is to describe the basic types of noun phrase in Nyangumarda and to show how some types may be expressed as discontinuous phrases.

There are four types of noun phrase in Nyangumarda:
Head - Modifier, Co-ordinate, Relator - Axis, Appositional.

Relator - Axis phrases occur only in locative constructions. The other three types are found filling several clause level slots. Only Head - Modifier phrases occur in a Time slot.

## 1. HEAD - MODIFIER PHRASES

A Head - Modifier noun phrase consists of a head - usually a noun, but sometimes a noun phrase - together with up to three modifiers. A noun without any modifiers can be considered to be a phrase if it has the potential of being modified.

### 1.1. MODIFIERS

The types of words which may modify a noun are: adjectives

demonstratives

possessives

nouns

pronouns

numerals

### 1.1.1. Adjectives

Adjectives include such words as wirtu 'big', ngalypa 'good', and nurta 'blunt'. They possibly also include derivatives of nouns such as kurlu-jartiny 'badness-having' i.e., 'bad', and kurlurlu-marti 'dust-like' i.e., 'dusty'.

kurlu-jartiny-ju malyarninyi kaju-lu bad-having-erg chopping axe-erg 'He is chopping with a useless axe.'

However when examples of these derived words in text are considered, not enough is understood of their function to state categorically that some are acting as modifiers of nouns.

### 1.1.2. Demonstratives

There are three demonstratives:

nyungu 'this'
pala/palama 'that' (mid distance)
ngurnungu 'that' (far)

Each of the demonstratives may take the dual suffix -jirri and the plural -rrangu.

```
pala-jirri partany-jirri
that-du child-du
'those two children'
nyungu-rrangu kakaji-rrangu
this-pl uncle-pl
'these uncles'
```

### 1.1.3. Possessives

Possessives consist of nouns or personal pronouns with the possessive suffix -mili. The relationship between the possessive and the head is either one of ownership or of kin relationship.

```
walypila-mili kari
white+man-poss beer
'the white man's beer'
kanyjayi ngaju-mili
grandmother 1+s-poss
'my grandmother'
```

### 1.1.4. Nouns and Pronouns

Unaffixed nouns and pronouns modify other nouns when inalienable possession is involved.

```
ngaju milya
1+s nose
'my nose'
maruntu jina
goanna foot
'goanna tracks'
```

### 1.1.5. Numerals

'on one day'

```
There is a small group of numerals comprised of:

waraja 'one'
kujarra 'two'
kujarra-pa waraja 'two-and one' i.e., 'three'
marlu 'many'
kurrngal 'many'
wirr 'all'
waraja-nga karrpu-nga
one-loc sun-loc
```

marlu yukurru many dog 'many dogs'

### 1.2. RESTRICTIONS ON MODIFIERS

It is unusual to find more than two modifiers in one phrase. The maximum expansion that has been found is head plus three modifiers, which are a possessive and two adjectives.

maya jana-mili nganimarta kararr house 3+pl-poss tall tough 'their tall, strong building'

Two adjectives can occur in one phrase. wirtu-karti talakarr-karti maya-karti big-dest strong-dest house-dest 'into a big, strong house'

Demonstratives, adjectives and possessives can each co-occur with one of the other two word types.

Demonstrative and Adjective pala partany-ju wupartu-lu that child-erg little-erg 'that little child'

Possessive and Demonstrative

ngaju-mili ngurnungu mamaji

l+s-poss that+far older+brother

'that older brother of mine'

Possessive and Adjective

partany-ju ngaju-mila-lu wupartu

child-erg l+s-poss-erg little

'my little child'

In phrases where the head is modified by an unaffixed noun or pronoun no other modifiers have been found.

maruntu jina 'goanna foot' i.e., 'goanna tracks'

There seems to be no reason why numerals should not co-occur with any of the other types of modifiers. An example is given below of a numeral with a possessive. A speaker of the language may be persuaded to allow their use in combination with two other modifiers, but the resulting examples sound artificial. In practice, numerals are not used extensively as modifiers, especially in combination with other modifiers. Some of the functions of the small group of numerals can be

taken care of in the noun morphology. The dual suffix -jirri can be used instead of the free form kujarra 'two', and the plural suffix -rrangu covers numbers above two when there is no need to be specific. Absence of a free form numeral, together with absence of suffixation indicates singular.

muwarr ngaju-mili waraja

talk l+s-poss one
'my one story'

wupartu-jirri partany-jirri

little-du child-du
'two little children'

### 1.3. WORD ORDER

Demonstratives usually precede the head, but a few examples have been found where a demonstrative follows the head.

```
muwarr-arrangu palama-rrangu
word-pl that-pl
'those words'
```

When either an adjective or possessive is the only modifier in a phrase it may precede or follow the head. With adjectives it is difficult to decide whether or not the use of a particular word order places the adjective in focus. With possessives there is no obvious reason for one or the other word order to be chosen. One speaker in the one text will use both word orders for the same expression.

```
ngaju-mili pipi or pipi ngaju-mili
l+s-poss mother mother l+s-poss
'my mother'
```

If a possessive and demonstrative co-occur, either of the modifiers may be contiguous to the head.

```
ngaju-mili ngurnungu mamaji
l+s-poss that+far older+brother
'that older brother of mine'
nyungu walypila-mila-lu kari-lu
this white+man-poss-erg beer-erg
'this beer of the white man'
```

If a possessive and adjective co-occur, the possessive is contiguous to the head.

```
partany-ju ngaju-mila-lu wupartu
child-erg l+s-poss-erg little
'my little child'
```

### 1.4. CASE AND CONCORD

In Head - Modifier phrases where the head is marked for case and/or number there is agreement between the head and modifiers. Nyangumarda is a nominative - ergative language (Hale 1970:759). The ergative case (subject or agent of a transitive verb) is marked by -lu ∿ -ju. The nominative case (subject of an intransitive verb and object of a transitive verb) is, in Nyangumarda, unmarked. The lack of marking with nominative case tends to obscure the concord, but it is quite obvious when other cases are used.

Ergative Case and Dual Number
wupartu-lu-jirri partany-ju-jirri
little-erg-du child-erg-du
'two little children'

#### Locative

waraji-nga karrpu-nga
one-loc sun-loc
'on one dau'

#### Destination

wirtu-karti talakarr-karti maya-karti
big-dest strong-dest house-dest
'into a big, strong house'

### Dative

wirtu-ku ngapa-ku
big-dat water-dat
'(listen) for a lot of rain'

Sometimes when two modifiers are used, only the head and one of the modifiers are inflected for case. This may be the result of careless speech as the agreement usually appears on each word in the phrase.

pala partany-ju wupartu-lu
that child-erg little-erg
'That little child'

### 1.5. THE HEAD

The head of a Head - Modifier phrase is a noun or a Head - Modifier noun phrase marked either for locative case or by -jartiny 'having'. This is an area of phrase construction which needs more investigation. It seems that other case suffixes besides locative could be used in this way, but if this is so they have yet to be found.

pala murtaka 'that motor car'

palama murtaka-jartiny wupartu-jartiny
that car-having little-having
'that person with the little motor car'

pala murtaka-nga wupartu-nga
that car-loc little-loc
'that person in the little car'

Sometimes an adjective may be used as a substantive where a noun would normally be expected. At this stage it is not known whether or not an adjective used in this way has the potential of being modified and can be said to be acting as the head of a phrase.

wirtu kamarnanganaku
big called+to+us
'The important (man) called out to us.'

### 2. CO-ORDINATE PHRASES

An indefinite number of nouns or short phrases may be strung together in a co-ordinate construction with or with-out the conjunction -pa. When the conjunction is used it may appear on every item in the construction or only on some of them.

ngaju-mili-ja pipi-ja japartu-ja mamaji-ja jamuji-ja
l+s-poss-sce mother-sce father-sce brother-sce grandfather-sce
yaku-ja
cousin-sce
'(I learned) from my mother, father, older brother, grandfather and
cousin.'

Anna+Plain-ji-pa Mantuny-ju-pa Wallal-ji-pa
name-loc-conj name-loc-conj
'at Anna Plains, Mandorah and Wallal Downs'

### 3. RELATOR - AXIS PHRASES

Five adverbs have been found which occur with nouns to form Relator - Axis phrases in locative constructions. They are:

wangka 'near'
yakujani 'this side'
ngunarri 'the other side', 'far away'
kaniny 'under'
kanka 'up', 'above'

When they occur in Relator - Axis phrases all but wangka take the destination suffix -karti (or -kurti) which normally denotes movement towards the referent to which it is suffixed. But when it appears in

combination with these four adverbs it is sometimes difficult to discern any idea of movement.

Instead of being suffixed with -karti, kanka often takes -ni, the meaning of which has not been found. Note that kaniny-kurti means 'inside' as well as 'underneath'.

The axis of the phrase is marked for location. The relator may precede or follow the axis.

maya-nga wangka
house-loc near
'near the house'

yakujani-karti milimili-ngi
this+side-dest paper-loc
'on this side of the paper'
kankani warnku-nga
above stone-loc
'on top of the stone'
kaniny-kurti maya-nga
under-dest house-loc
'inside the house'

The four cardinal points of the compass behave in a similar way to these adverbs, but take -kurnu (or -kurti) instead of -karti.

yalinyji-kurnu 'on the north side' kakarra-kurnu 'on the east side' kurila-kurnu 'on the south side' kara-kurnu 'on the west side'

## 4. APPOSITIONAL PHRASES

Two nouns may occur in apposition in a generic specific relationship where one item in the phrase gives more specific information than the other; or they may be in apposition when one is used to amplify the other.

In phrases showing a generic specific relationship either the generic or specific item may be first in the phrase. But where one noun amplifies the other the amplification must come last.

generic specific
ngunarri-ngi pirra-nga
far-loc desert-loc
'far away, in the desert'

specific generic marrngu nganarna Aborigine l+pl+ex 'we Aborigines'

statement amplification
ngapi-karti kukilikang-karti
what's+it-dest place+name-dest
'to that place, what's its name, to Coogligong'
Mapirri Mervyn 'Mapirri, that is Mervyn'

Not only nouns, but two or more phrases with a wide variety of fillers may be in apposition to give amplification.

nganin-nganin mayi nyungu nyungu mayi yija marrngu-mili mayi all+kinds food this this food truly Aborigine-poss food '(She brought me) all kinds of food, this food, truly food belonging to the Aborigines.'

### 5. DISCONTINUITY

It is not uncommon to find discontinuous phrases. All types of noun phrase except Relator - Axis phrases may be affected. In the examples given below the words which interrupt the phrase are placed in parenthesis and verb morphology has not been marked except where it helps to clarify an example.

Perhaps the most commonly found type of discontinuous phrase is the Appositional. With these the statement precedes the verb (or verb phrase) and the amplification follows the verb. Sometimes it is more than just a verb which interrupts the phrase.

nganin-nganin kuyi (wirlarnakinyija) rawal-pa nganin-nganin all+kinds meat (killed+for+me) goanna-conj all+kinds manganya-pa kuyi-rrangu echidna-conj meat-pl
'(She killed) all kinds of meat (for me), goanna, all kinds, echidna, and different meats.'

mamaji (waninyirri Fitzroy+Crossing-ju) Limericki brother (staying Fitzroy+Crossing-loc) Limerick
'My brother, Limerick (is staying at Fitzroy Crossing).'

The following example is more complicated in that the words which precede the verb complex themselves form an appositional phrase. The amplification which follows the verb is expanded to include a second actor and is itself another appositional phrase.

partany-ju ngaju-mila-lu wupartu Lenaji-lu (japam ji-ni-kinyi-pulu) child-erg l+s-poss-erg little name-erg (stop vb-nf-rep-3+du) Lenaja and Leonard kujarra name and name two 'My little child, Lena, Lena and Leonard, the two of them (were stopping him).'

Discontinuous Head - Modifier phrases occur in a variety of forms. Most of the examples found in the data consist only of a head with one modifier. The head may precede or follow the verb. There are examples of adjectives possessives and demonstratives acting as modifiers. One example shows two modifiers, one on each side of the verb. While it is usually a verb which interrupts the phrase, the first example given below shows 'might be' as the interruption.

wirtu (might be) karrpu big (might be) sun '(it might be) a long time' marlu (kalkurnan) yukurru many (you+keep) dog '(Do you have) many dogs?' jurnti-nga (ngalpa-ngalpanyayirni) walypila-mili-ngi cave-loc (we+are+entering) white+man-poss-loc '(We are going into) the white man's gaol.' nyungu (ngawu jininganinyi) walypila-mila-lu (mad making+us) white+man-poss-erg beer-erg 'This beer of the white man (is making us silly).'

Co-ordinate phrases may occasionally be discontinuous. In the following example the verb is affixed to show dual actor with one free form actor preceding it and the second following. It is further complicated by the fact that the first half of the co-ordinate construction is in apposition to the preceding phrase.

```
ngaju-mila-lu mirtawa-lu Yanti Nayi-lu-pa (japam ji-ni-kinyi-pulu)
l+s-poss-erg woman-erg Aunty name-erg-conj (stop vb-nf-rep-3+du)
Minyjun-ju
name-erg
'My wife Aunty Nayi, and Minyjun (were stopping him).'
```

### 6. SUMMARY

Four types of noun phrase have been described for Nyangumarda. They are Head - Modifier, Co-ordinate, Relator - Axis, and Appositional. The Relator - Axis phrases are the most restricted in length, permitted fillers and in distribution. There are restrictions on the length of Head - Modifier phrases. Theoretically there is no limit to the length of Co-ordinate phrases. Appositional phrases, because they may contain other phrase types (including co-ordinate constructions), may also be quite long. All but Relator - Axis phrases may be discontinuous.

#### HELEN GEYTENBEEK

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# CLAUSE-LEVEL TAGMEMES OF BURARRA

Kathleen Glasgow and Mark Garner

## O. INTRODUCTION

Burarra is spoken by some 600 Australian Aborigines living in the Maningrida-Blyth River vicinity, on the coast of Arnhem Land.

The present paper is an analysis of the structure and function of the elements of Burarra clauses within a tagmemic framework. The authors intend to examine other aspects of the language in later publications.

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### 0.1. ABBREVIATIONS AND SYMBOLS

1 first person
2 second person
3 third person
A Aspect Tagmeme

acc accompaniment prefix

adv adverb

awy away

BEN Benefactive Tagmeme

Ben benefactor in predicate phrase

borr borrowed (words)

Cl clause

cl class marker

Compar Phr Comparison Phrase

Conjunction (sentence-level)

cont
ctf continuous aspect
ctf contrary to fact
d (subscript) descriptive

dat dative

Decl declarative

dems demonstrative

Descr Descriptive (clause) descr descriptive word

Descr P Phr Descriptive Predicate Phrase

dl dual

emph emphatic (form of attention word)

excl excluded person

F From Tagmeme

f feminine

gen n general noun

H head (of a construction)

Hab Phr Habitat Phrase
Iden Phr Identifier Phrase
i (subscript) intransitive
incl included person

indic indicative

Imp imperative clause

imp imperative person-number prefix

imperf imperfect aspect

INDT Indeterminate Tagmeme

indt indeterminate (word classes)

intr intransitive

Intr Phr Intransitive Predicate Phrase

Intr St Phr Intransitive Stative Predicate Phrase

IO Indirect Object Tagmeme is (subscript) intransitive stative

kin term kinship term
Lat lateral tagmemes

LI Location-Instrument Tagmeme

loc locative

Loc Interrog Phr Locative Interrogative Phrase M modifier (of a construction)

masc masculine
MD Mood Tagmeme
md wd mood word
MNR Manner Tagmeme

n noun

ndes non-desiderative (aspects)

nom nominative

O Object Tagmeme

P predicate tagmemes

Part participant tagmemes

perf perfect aspect
Peri peripheral tagmemes

Phr phrase
pl plural
prn pronoun
prop n proper noun
Prox Phr Proximity Phrase
punct punctiliar aspect

RA Time Cl Relator-Axis Time Clause

Ref Phr Referent Phrase rep repetition

restr adv restricted adverb
S Subject Tagmeme

s (subscript) stative s singular

st stative (word classes)

Subj	subjunctive
T	Time Tagmeme
t (subscript)	transitive
Tr Phr	Transitive Predicate Phrase
Tr St Phr	Transitive Stative Predicate Phrase
ts (subscript)	transitive stative
V	Vocative Tagmeme
vb	verb
+ (in general formulas)	obligatory element
(in specific examples)	additional component
±	optional element
{ }	a class of morphologically alternating allomorphs
- (hyphen in language)	orthographical device separating prefix from stem
: (in formulas)	dividing construction on the left from manifestation on the right
(in literal translation)	dividing the meanings carried by a single morpheme
(in language and literal translation)	morpheme breaks, except occasionally in language where it is an orthographical device distinguishing n + g from the digraph ng
	the cut off or resumption of an interrupted tagmeme

# 1. OVERVIEW

# 1.1. CLAUSE TYPES - SUMMARY

The following table outlines the classification of clauses which is used in this paper; it contains three orders and five series of clauses, and the clause types which occur are indicated by a plus symbol.

## TABLE 1

SERIES	Intrans.	Trans.	Intr. Stative	Tr. Stative	Descriptive
ORDERS Declarative	+	+	+	+	+
Subjunctive	+	+	+ 1-2	<b>+</b>	
Imperative	+	+	+	+	

Clause types are defined by the nature of the predicate tagmeme. For example, declarative intransitive clauses have the predicate head manifested by a declarative form of an intransitive verb; subjunctive transitive clauses have the predicate head manifested by a subjunctive form of a transitive verb; imperative intransitive stative clauses have the predicate head manifested by an imperative form of an intransitive

stative verb; etc. Descriptive clauses have the predicate head manifested by other than a verb, hence the limitation of descriptive clauses to the declarative order only.

The terms 'transitive' and 'intransitive' are used in their generally accepted senses; that is, they are distinguished by the presence of the optional Object Tagmeme in the transitive clauses, and by its obligatory absence in the intransitive clauses. In Burarra the object is also a high ranking element in the transitive verb person-number prefixes (see Glasgow and Kerr 1964).

Stative clauses, transitive and intransitive, are those in which the predicate head is manifested by a stative verb, a restricted class of verbs including verbs of 'being' with reference to posture, which function elsewhere as auxiliaries, and verbs of 'making to be'.

The descriptive clause, with its non-verbal predicate, expresses a complement relationship rendered as some form of 'to be' in English.

The various verb forms are derived morphologically from the non-past subjunctive, which is the simplest verb form. These variations and their functions of imperative, declarative, non-desiderative, contrary to fact, negative, and repeated action are described in Section 6.

#### 1.2. CLAUSE-LEVEL TAGMEMES

Clause-level tagmemes are defined as either predicate, participant, lateral, or peripheral. There is a gradation in the centrality of focus from the predicate tagmeme, which is central, to the participant tagmemes which are obligatorily signalled in the predicate, to the lateral tagmemes which convey specific information about the circumstances of the action expressed in the predicate, but are not marked in the predicate itself, to the peripheral tagmemes, which relate to the clause as a whole. This is summarised in the diagram below:

PERIPHERAL

LATERAL

PARTICIPANT

PREDICATE

S, 0, BEN

IO, F, LI, T, A, MNR

MD, INDT, V

DIAGRAM 1

Predicate tagmemes vary between clause types, and may be interrupted only by Aspect manifested by barra 'future', following the modifier or the head (see example i, Section 1.3.). The participant, lateral and peripheral tagmemes are the same in all clause types, and are optional in all clause types except for Object, which only occurs in transitive clause types; and the From, Time, and Indeterminate Tagmemes, which do not occur in imperative clauses. Participant tagmemes and lateral tagmemes, except Aspect, may be interrupted by other tagmemes (see examples ii, iii, iv, Section 1.3.) as well as repeated (see examples ii, iii, iv, vi, vii, Section 1.4.). Peripheral tagmemes and the Aspect Tagmeme may not be interrupted, but they may be repeated (see examples i, v, Section 1.4.).

#### 1.3. INTERRUPTED TAGMEMES

Interrupted tagmemes are interrupted by another clause-level tagmeme and are defined as those in which the second manifestation completes the phrase and/or adds additional factors. Some examples of interrupted tagmemes are as follows:

- 111) bambay nipa Borroloola wenga rrapa misses Decl, Cl = +S:Serial Phr. . . +F:From Phr old:woman she Borroloola from and misses awurriny-ji.rra.pa rrapa an-ngardapa an-gugaliya . . . . S cl<sup>1</sup>-alone 3:dl:f-be.punct.rep and cl-person Mt. Isa awurr-be.ya 6 o'clock +LI:prop n +T:borr wd<sup>2</sup> +, P: Intr Phr 3:pl-arrive.cont Mt. Isa 6 o'clock 'little girl and her mother and two misses and one Aboriginal man arrived at Mt. Isa from Borroloola at 6 o'clock'

<sup>&</sup>lt;sup>1</sup>There are four noun classes in Burarra. They are obligatorily marked by agreement in the person prefixes on the verbs and in the class prefix on descriptives, and in the accompaniment prefix.

<sup>&</sup>lt;sup>2</sup>'Borrowed' throughout the text refers to words borrowed from English.

## 1.4. REPEATED TAGMEMES

Repeated tagmemes are defined as those in which the second manifestation is either identical, or a synonym, or the same expanded, or a clarification of the first manifestation. Some examples of repeated tagmemes follow.

- 1) minypa barra an-nerranga a-yinda barra

  Decl<sub>1</sub>Cl = +MD:md wd +A:asp wd +S:descr +<sub>1</sub>P:Intr Phr +A:asp wd

  like future another 3s-say future

  'like another will say'

- v)

  a-lay

  gu-yinpa
  barra
  nguwurr-boy

  + P:Intr Phr

  hey:masc:indic
  3s-how:do:rep
  future
  a-lay
  +V:att wd
  hey:masc:indic
  'hey, when will we go, hey'

For a full description of Burarra demonstratives, see Glasgow 1977b.

vi) nipa a-nirra welanggan  $Decl_{is}C1 = +S:nom prn +_{is}P:Intr St Phr +S:gen n$ 3s 3s-remain.punct owner 'he remains, the owner'

vii) gapa awurri-be.na rrawa

Decl<sub>1</sub>Cl = +LI:dems loc +<sub>1</sub>P:Intr Phr +LI:gen n

there:far<sup>1</sup> 3:dl-arrive.perf camp

'there they arrived, at the camp'

## 1.5. MAXIMAL AND MINIMAL CLAUSES

The maximum number of tagmemes observed in a clause is seven. The minimal clause is one tagmeme - the predicate. In a count of 751 clauses 39% were minimal, 35.6% had two tagmemes, 16.1% had three, 7.6% had four, 1.3% had five, .3% had six, and .1% had seven tagmemes. All clause types may have up to four tagmemes. Only declarative clauses of the transitive and intransitive series may have more than four tagmemes.

The balance of tagmemes within a clause includes the predicate (although fragmentary utterances without predicate do occur), up to three participant tagmemes, three lateral tagmemes and three peripheral tagmemes, except that no more than two participant, lateral or peripheral tagmemes may occur in an imperative clause.

Examples of minimal and maximal clauses follow.

1) a-bo.na
Decl<sub>1</sub>Cl = +<sub>1</sub>P:Intr Phr
3s-go.perf
'he went'

subj<sub>1</sub>Cl = +<sub>1</sub>P:Intr Phr
incl:pl-go
'let's all go'

<sup>&</sup>lt;sup>1</sup>For a full description of Burarra demonstratives, see Glasgow 1977b.

- v)
  boporanga nguwurr-bengga barra gorlpurda

  Decl<sub>1</sub>Cl = +IO:gen n +<sub>1</sub>P:Intr Phr +A:asp wd +IO:gen n
  open:place incl:pl-arrive future grassland
  yarlanga jimarnjaparna marlgaway
  +IO:gen n +IO:gen n +IO:gen n
  open:place mud:flats grassland
  'we will arrive in the open place, the grassland, the
  open place, the mud flats, the grassland'
- vii)

  a-lay
  nginyipa
  gornabula
  gana

  Imp<sub>1</sub>Cl = +V:att wd +S:nom prn +IO:gen n +<sub>1</sub>P:Intr Phr
  hey:masc:indic 2s wallaby 2s:imp:watch
  bamba
  2s:imp:move
  'hey, you go along watching for wallaby'

## 1.6. ORDERING OF TAGMEMES

The ordering of tagmemes within the clause is free, although the lateral tagmeme Manner always occurs adjacent to the predicate. Other tagmemes may be stylistically emphasised by being placed in the position receiving clause stress, which for the predicate is clause initial and for the participant, lateral, and peripheral tagmemes is immediately preceding the predicate. A clause final tagmeme occurring immediately after the predicate receives a secondary clause stress, and has the effect of an important parenthetical addition.

When Subject and Object co-occur, S precedes O in two thirds of the examples, the normal order being SOP, but OSP also occurs. The second of these participant tagmemes may also follow P, resulting in SPO or OPS. When either S or O is repeated, the patterns SOVS and OSVO have been observed. These patternings all concur with the stylistic emphasis

described in the preceding paragraph.

The occurrence of Benefactive with either S or O is much less frequent, and the ordering of these in relation to each other is again a matter of emphasis.

### 2. CLAUSE TYPES AND THEIR PREDICATE TAGMEMES

### 2.1. INTRANSITIVE

The Burarra Intransitive clause may be formulated as

Cl = + P ± Part ± Lat ± Peri

in which 1P represents the Intransitive Predicate phrase; Part, the participant tagmemes, includes Subject and Benefactive but not Object (see Section 3); Lat, the lateral tagmemes, and Peri, the peripheral tagmemes, represent all the tagmemes in those classifications.

,P is defined by the formula

 $_{1}^{P} = \pm_{1}^{M} + _{1}^{H} \pm Toward \pm Ben \pm Aux_{1} \pm Aux_{2}$ which is to be understood as follows:

i<sup>M</sup>, the modifier of the intransitive head, is manifested by body part words - both stative nouns<sup>1</sup> and general nouns, as a component of a verbal idiom with fixed position immediately preceding or following the head.

H is the head of the Intransitive Predicate Phrase. It may be manifested by any intransitive verb except the stative verbs and workiya 'to do habitually'.

Toward expresses direction toward the point with which the speaker identifies himself (see example iii, Section 3.2.). Toward is manifested by gurda 'hither', occurring optionally in the position indicated in the formula above, except with intransitive verbs having a singular subject or with transitive verbs where singular subject acts on third person singular object, in which case direction is expressed by a first-order verb prefix. (Compare examples iii and iv, also example v, Section 2.2.)

Ben expresses the benefactor of the predicate phrase. Ben is manifested by dative pronouns, which agree with the nominative pronouns or other manifestations of BEN, the clause-level Benefactive Tagmeme.

 ${\rm Aux}_1$  denotes auxiliary  ${\rm verb}_1$ ; it expresses continuous action, and may be manifested by intransitive stative verbs and by five verbs of

The term 'stative' is applied to nouns which denote most, but not all, body parts, and which require, except when manifesting the modifier of a predicate phrase, grammatical agreement with the possessor, expressed either by the person prefix on the stative verb in the Intransitive Stative Predicate Phrase in which it generally occurs, or by the accompaniment prefix with which it occurs when manifesting the Location-Instrument Tagmeme.

motion noted to date. All of the verbs manifesting  $\operatorname{Aux}_1$ , as well as  $\operatorname{Aux}_2$ , occur with full affixation, except  $\operatorname{jarl}^1$  'hasten' which is an abbreviated form of  $\operatorname{jarlabiya}$  and takes no suffixes. The auxiliary  $\operatorname{jarl}$  also manifests  ${}_1H$ .

Aux<sub>2</sub>, the Auxiliary verbs<sub>2</sub>, expresses prolonged or habitual action; it may be manifested by either of two intransitive verbs.

As a summary of the foregoing, the Intransitive Predicate Phrase may be displayed in this way:

Examples of the Intransitive Predicate Phrase follow.

iv) awurr-bo.na gurda nula
Intr Phr = +iH:intr vb +Toward +Ben:dat prn
3pl-go.perf hither to:3s
'they came here to him'

<sup>1</sup> Throughout the text Burarra verbs are given in the non-past subjunctive with the zero second person singular imperative prefix, which is the simplest form (see section 6.3.).

## 2.2. TRANSITIVE

The transitive clause can be expressed in the form

where  $_{\rm t}$ P represents the Transitive Predicate Phrase, and Part, Lat, and Peri represent all of their respective tagmemes. The Transitive Predicate Phrase is defined by the formula

$$\mathbf{t}^{P}=\pm_{\mathbf{t}}^{M}+_{\mathbf{t}}^{H}\pm\text{Toward}\pm\text{Ben}\pm\text{Aux}_{1}\pm\text{Aux}_{2}$$
 which is to be interpreted as follows:

t<sup>M</sup>, modifier of the transitive head, is manifested by body part words - both stative nouns and general nouns - and by restricted adverbs which include onomatopoeia words, as a component of a verbal idiom with fixed position immediately preceding or following the head.

 $_{\rm t}{\rm H}$  is the head of the Transitive Predicate Phrase; it may be manifested by all non-stative transitive verbs.

The other elements of the Transitive Predicate Phrase (Toward, Ben,  ${\rm Aux}_1$ , and  ${\rm Aux}_2$ ) are manifested by the same items as those of the Intransitive Predicate Phrase (see Section 2.1.).

The above formula can thus be displayed as shown:

Examples of the Transitive Predicate Phrase follow:

1) lak gu-ga.nja apala   

$$Tr Phr = +_t M : restr adv +_t H : tr vb + Ben: dat prn$$

$$completely 3s: 3s-take. cont for: ls$$
'he did it completely benefiting me'

gochula nguna-rra.na **ii**) Tr Phr = + M:st n + H:tr vb stomach 3s:1s-spear.perf 'it is promised to me'

ngu-bu.na 111) lorr Tr Phr = + H:tr vb +, M:restr adv ls:3s-hit.perf hard 'I hit him hard'

iv) dak a-bu.na Tr Phr = +tM:restr adv +tH:tr vb 3s:3s-hit.perf 'thud! he hit him'

ngi.ya-ga.nja v) Tr Phr = + H:tr vb ls:3s.awy:from:me-take.cont 'I am bringing it to you'

vi) m-ba.rra a-bamu.na Tr Phr =  $+_{t}$ H:tr vb +Aux<sub>1</sub>:intr st vb +Aux<sub>2</sub>:intr vb 3s:3s-eat.punct 3s-be:sitting 3s-move.perf 'he kept on sitting there eating it'

#### 2.3. INTRANSITIVE STATIVE

The intransitive stative clause can be formulated as

isC1 = +isP ± Part ± Lat ± Peri

where isP is the Intransitive Stative Predicate Phrase, and Part includes Subject and Benefactive, but not Object, and Lat and Peri include all of their respective tagmemes. is P has the structure and fixed order shown in the formula

is  $^{P}$  =  $^{\pm}$  is  $^{M}$   $^{\pm}$  is  $^{H}$   $^{\pm}$  Ben  $^{\pm}$  s Aux. is  $^{M}$ , modifier of the intransitive stative head, may be manifested by general nouns, stative nouns, restricted adverbs, descriptives, and borrowed verbs<sup>1</sup>, as a component of a verbal idiom, with fixed position immediately preceding the head.  $_{\mbox{is}} \mbox{M}$  manifested by a stative noun always co-occurs with  $_{\rm is}{}^{\rm H}$  manifested by ji 'be vertical' (see example ii below). This manifestation of  $is^{\rm P}$  has a noun rather than predicate function, manifesting S or O, or in the Referent or From Phrase.

is H is the head of the Intransitive Stative Predicate Phrase, which may be manifested by the three intransitive stative verbs, and a fourth

<sup>&</sup>lt;sup>1</sup>The standard method of adapting English verbs for Burarra usage is as modifier in either the Transitive or Intransitive Stative Predicate Phrase, depending on the transitivity of the borrowed verb (see Sections 2.3., example v, and 2.4., example iv).

derived from the transitive stative verb.

SAux, the stative auxiliary, may be manifested by five verbs of motion noted to date. (The verb workiya 'do habitually' is literally a verb of motion 'to throw self about'.)

Ben is the same as described for the Intransitive Predicate Phrase (see Section 2.1.).

The Intransitive Stative Predicate Phrase, then, may be displayed as follows:

Some examples of the Intransitive Stative Predicate Phrase follow:

#### 2.4. TRANSITIVE STATIVE

The transitive stative clause is expressed by the formula

 $ts^{C1} = +_{ts}P + Part + Lat + Peri$ 

in which  $_{ts}P$  is the Transitive Stative Predicate Phrase, and Part, Lat, and Peri include all of their respective tagmemes.  $_{ts}P$  has the structure and fixed order shown in the formula

 $ts^P = \pm ts^M + ts^H \pm Ben \pm s^{Aux}$  where  $ts^M$ , the modifier of the transitive stative head, may be manifested by general nouns, kinship terms, descriptives, borrowed verbs<sup>1</sup>, and the Comparison Phrase, as a component of a verbal idiom in fixed position immediately preceding the head.

 $_{
m ts}{}^{
m H}$ , the head of the Transitive Stative Predicate Phrase, is manifested by the transitive stative verb.

Ben is the same as described for the Intransitive Predicate Phrase (Section 2.1.), and <sub>S</sub>Aux is the same as described for the Intransitive Stative Predicate Phrase (Section 2.3.).

The Transitive Stative Predicate Phrase, then, may be displayed as follows:

Examples of the Transitive Stative Predicate Phrase follow:

1) marn.gi burr-nega boy

Tr St Phr = 
$$+_{ts}$$
M:gen n  $+_{ts}$ H:tr st vb  $+_{s}$ Aux:intr vb

understanding 2s:3pl-make:be 2s:imp:go

'go teaching them'

The standard method of adapting English verbs for Burarra usage is as modifier in either the Transitive or Intransitive Stative Predicate Phrase, depending on the transitivity of the borrowed verb (see Sections 2.3., example v, and 2.4., example iv).

v) 
$$gun-nerra minypa gu-ne.nga$$
  $a-ni.rra$ 
 $Tr St Phr = +_{ts}M:Compar Phr +_{ts}H:tr st vb$   $+_{s}Aux:intr st vb$ 
 $cl-bad$   $like$   $3s:3s-make:be.imperf$   $3s-do.punct$ 

'he is making it bad  $like$ '

### 2.5. DESCRIPTIVE

The Descriptive clause in Burarra is expressed by the formula  ${}_{d}$ Cl = +  ${}_{d}$ P  $\pm$  Part  $\pm$  Lat  $\pm$  Peri

in which  ${}_{d}P$  is the Descriptive Predicate Phrase, and Part includes Subject and Benefactive, but not Object, and Lat and Peri include all their respective tagmemes.  ${}_{d}P$  has the structure and fixed order shown in the simple formula

$$_{d}P = + _{d}H \pm Ben$$

where dP, the head of the Descriptive Predicate Phrase, may be manifested by general nouns, kinship terms, dative pronouns, descriptives, demonstrative descriptives, the indeterminate descriptive {gun-}nga 'what', locatives, adverbs, noun and descriptive phrases l, and the Intransitive Stative Predicate Phrase expressing body parts (see Section 2.3.).

Ben, the benefactor of the descriptive predicate, is manifested by dative pronouns.

Accordingly the Descriptive Predicate Phrase is displayed as follows:

A forthcoming paper on the non-predicate phrases of Burarra is in first draft form.

```
Examples of the Descriptive Predicate Phrase follow:
1)
                  nguyumbula arrkula
                                       (jarlakarr)
    Descr P Phr = +dH:gen n
                              +Ben:dat prn (+S:gen n)
                  8nake
                              for:incl:s
                  '(the road) is the snake to us'
11)
                  nyinya
    Descr P Phr = +dH:kin term
                  daddy
                  'there's (your) daddy'
111)
                  (bama a-ji.rra)
                                      nula
                                      +dH:dat prn
    Descr P Phr = (+S:Intr St Phr)
                  (head 3s-be.punct
                                      for:3s
                  '(the head) is for him' (re dividing wallaby)
iv)
                  an-mola
                               arrburrwa
    Descr P Phr = +DH:descr
                              +Ben:dat prn
                  cl-friendly to:incl:s
                  'he is friendly to us'
v)
                  an-guna
    Descr P Phr = +dH:dems descr
                  cl-this
                  'this is it'
vi)
                  (gala)
                             ana-nga
                                             arrkula
    Descr P Phr = (+MD:md wd) +_d H:indt descr +Ben:dat prn
                  (negative) acc-who
                                               for:incl:s
                  'there isn't anyone for us'
vii)
                  wuparnana
    Descr P Phr = +dH:loc
                  inside
                  'it's inside'
                  (mun-ngaypa) ngardapa
viii)
    Descr P Phr = (+S:descr)
                                +dP:adv
                  (mine)
                                alone
                  '(mine) is by itself'
ix)
                  minypa wangarra
   Descr P Phr = +dH:Compar Phr
                  like devil
                  'he's like a devil'
```

x) girnamirrnga nula
Descr P Phr = +dH:Ref Phr
mosquito for:3s
'it's for mosquitoes'

#### PARTICIPANT TAGMEMES

The participant tagmemes denote the central participants in Burarra clauses: subject, (direct) object of transitive verbs, and benefactor. When semantically present these are obligatorily signalled in the predicate phrase, and only optionally co-occur as participant tagmemes, specifying the identities of subject and/or object and/or benefactor, and sometimes adding emphasis or resolving ambiguity present in the person prefix of the verb. (For a study of Burarra verb prefixes, see Glasgow and Kerr 1964.)

### 3.1. SUBJECT

The Subject Tagmeme, S, optionally occurs in all clause types. It answers the questions ana-nga 'who?' and an-nga 'what?', and may be manifested by proper nouns, general nouns (including terms of respect, such as bambay 'old woman'), stative nouns in the Intransitive Stative Predicate Phrase (see Section 2.3.), nominative pronouns, kinship terms, descriptives, demonstrative descriptives, the indeterminate descriptive {gun-}nga 'what', most noun phrases and all series of declarative clauses (see Table 1, Section 1.1.). Three is the maximum number of tagmemes observed in an embedded clause manifesting S.

The accompaniment prefix {gu-} has been observed in rare co-occurrence with manifestations of S which name or describe an animate being, emphasising S as agent (see example vii below), and sometimes serving to clear up ambiguity between third person singular subject and object where both belong to the same noun class. Such ambiguity is more often cleared up by the Actor Phrase (see example viii below).

Some examples of S in clauses follow:

See footnote p.52.

- 111) nipa an-gapa  $Decl_{d}C1 = +S:nom prn +_{d}P:dems descr$  3s cl-there:far'he is way over there'
- iv) an-ngardapa a-be.ya arrburrwa
  Decl<sub>1</sub>Cl = +S:descr +<sub>1</sub>P:Intr Phr
   cl-alone 3s-arrive.cont to:lpl
   'one man came to us'
- v) nguna-anya waykan a-ni.rra a-bupiya.na
  Decl<sub>1</sub>Cl = +S:Decl<sub>1S</sub>Cl +<sub>1</sub>P:Intr Phr
  my:masc-father high 3s-be.punct 3s-descend.perf
  'my father in heaven came down'
- vi) mun-narda nguna-wu.cha mu-wulebiya.na  $Decl_1Cl = +S:Decl_tCl$   $+_1P:Intr$  Phr cl-that:known 2s:ls:give.cont 3s-be:finished:up.perf 'that which you gave me is all gone'
- vii) rrawa gu-jarlapu.na ji-moch

  Decl<sub>t</sub>Cl = +0:gen n +<sub>t</sub>P:Tr Phr +S:gen n

  country 3s:3s-make.perf acc-dreaming

  'the dreaming made the country'

## 3.2. OBJECT

The Object Tagmeme, O, optionally occurs in transitive and transitive stative clauses. O answers the same questions and, except for the Actor Phrase, has the same manifestations as S. O is distinguished from S semantically and by its agreement with object obligatorily signalled in the person prefixes on the verb.

Some examples of 0 in clauses follow:

1) bala gu-rra.cha
Decl<sub>t</sub>Cl = +0:gen n +<sub>t</sub>P:Tr Phr
house 3s:3s-nail.cont
'he is building a house'

See footnote p.52.

v) an-an.ngi.ya a-rrima
Subj<sub>t</sub>Cl = +0:descr +<sub>t</sub>P:Tr Phr
cl-cl.what.is 3s:3s-have
'if it had a whatchamacallit'

### 3.3. BENEFACTIVE

The Benefactive Tagmeme, BEN, optionally occurs in all clause types, and is distinguished from the Indirect Object Tagmeme by its agreement with the obligatory, when semantically present, benefactor in the predicate phrase. BEN answers the question ana-nga. . .nula 'who (do it) for/to?'. BEN may be manifested by the same elements as manifest S and O, except for a few noun phrase types and stative nouns in the Intransitive Stative Predicate Phrase (see Section 2.3.), which are semantically excluded.

Examples of BEN in clauses follow:

- nguji-ama nyiburr-wengga achila

  Decl<sub>1</sub>Cl = +BEN:kin term +<sub>1</sub>P:Intr Phr

  ls:f-mother excl:pl-speak to:her

  'we (excl) could speak to my mother'
- 11) geka ngu-be.na nggula nginyipa

  Decl<sub>1</sub>Cl = +T:temp + P:Intr Phr +BEN:nom prn

  today ls-arrive.perf to:2s 2s

  'today I came to you, you'

#### 4. LATERAL TAGMEMES

There are six lateral tagmemes which add to and refine the meaning of the predicate by adding information about the indirect object, place or event from which the action originates, location or instrument, time, completeness, or manner of the action. Up to three lateral tagmemes may occur in all clause types in any combination, except that where more than two occur, at least one is always Aspect.

Lateral tagmemes, unlike participant tagmemes, are not reflected in the predicate, the 'toward' element of the predicate phrase being semantically independent of the Indirect Object, Location-Instrument, and From Tagmemes (see following sections).

### 4.1. INDIRECT OBJECT

The Indirect Object Tagmeme, IO, optionally occurs in all clause types expressing the goal or medium of the action, and answering the questions gun-nga 'what?' and gun-nga nula 'what for?'. IO may be manifested by proper nouns, general nouns, descriptives, demonstrative descriptives and demonstrative locatives, locatives, and by noun phrases including the Descriptive, Habitat, and Referent Phrases<sup>1</sup>.

The occurrence of the accompaniment prefix  $\{gu-\}$  with manifestations of IO is infrequent and carries connotations of identification of the subject with the indirect object (see example x below).

Examples of IO in clauses follow:

- 11) nginyipa boy manakarda  $Imp_{1}C1 = +S:nom prn + P:Intr Phr +IO:gen n$  2s 2s:imp:go geese 'you go for geese'

See footnote p.52.

- v) boy gun-gaba

  Imp<sub>1</sub>C1 = +<sub>1</sub>P:Intr Phr +IO:dems descr
  2s:imp:go cl-there:unseen
  'go to that place'
- vi) yi-gaba a-bo.na

  Decl<sub>1</sub>Cl = +IO:dems loc +<sub>1</sub>P:Intr Phr
  awy-there:unseen 3s-go.perf
  'he went that way'
- vii) a-bo.na waykan

  Decl<sub>1</sub>Cl = +<sub>1</sub>P:Intr Phr +IO:loc
  3s-go.perf on:top
  'he went to heaven'
- viii) awurri-ji.rra.pa wengga nguburr-we.na

  Decl<sub>1</sub>Cl = +IO:Descr Phr +<sub>1</sub>P:Intr Phr

  3dl-be.punct.rep story incl:pl-speak.perf

  'we told two stories'

- xi) balaja nula nyiwurr-bo.na gurda

  Decl<sub>1</sub>Cl = +IO:Ref Phr +<sub>1</sub>P:Intr Phr
  food for:3s excl:pl-go.perf hither
  'we came here for food'

### 4.2. FROM

The From Tagmeme, F, is optional in all clause types, and answers the question yina gaya wenga 'whence, from what place?'. F is manifested by the From Phrase, in which the preposition wenga 'from' is obligatory, except where context makes it redundant (see examples i and iii below).

The accompaniment prefix  $\{gu-\}$  is obligatory in the From Phrase except that it is optional where the axis is manifested by locatives such as waykan 'high', or by general nouns with connotations of place such as rrawa 'camp', and it is obligatorily absent where the axis is manifested by a proper noun.

Examples of F in clauses follow:

- 11) Darwin wenga a-jek.nga Maningrida

  Decl<sub>1</sub>Cl = +F:From Phr +<sub>1</sub>P:Intr Phr +LI:prop n

  Darwin from 3s-return.imperf Maningrida

  'he returned to Maningrida from Darwin'
- 111) Darwin ngujutpa ngu-be.na

  Decl<sub>1</sub>CL = +F:From Phr +LI:dems loc +<sub>1</sub>P:Intr Phr

  Darwin here ls-arrive.perf

  'I arrived here from Darwin'
- iv) gu-gata wenga gun-nerra gu-ni  $Decl_{1S}C1 = +F:From Phr + _{1S}P:Intr St Phr$  acc-there:seen from cl-bad 3s-be:perf 'from that time on things were bad'

### 4.3. LOCATION-INSTRUMENT

The Location-Instrument Tagmeme, LI, is optional in all clause types, and answers the questions yina gaya 'which place?', gu-yinga 'with what?', and gu-guyinmiya 'with the thing that does what?'. LI expresses the location in, on, or at which, or the instrument with which the predicate is performed. The concepts of location and instrument are united in the LI Tagmeme on the basis of complementary and mutually exclusive distribution; on the basis of ambiguity as, for example, whether a thing is being cooked on the fire or with the fire, and whether a thing is being bagged in a bag or using a bag; and on the basis of similar

See footnote p.52.

manifestations, differing only in that locatives and demonstrative locatives do not express the instrument concept; and on the basis of the frequent co-occurrence of the accompaniment prefix  $\{gu-\}$  with the manifestations of locational and instrumental concepts, in contrast to the rare occurrence of  $\{gu-\}$  in other tagmemes.

LI may be manifested by proper nouns, general nouns, stative nouns, descriptives, demonstrative descriptives, demonstrative locatives, locatives, and noun phrases including the Descriptive, Classifying, Identifier, Source Content, Proximity, and Relative Location Phrases.

The accompaniment prefix  $\{gu-\}$  occurs obligatorily with stative nouns manifesting LI, distinguishing such occurrences from S, O, F, and  $_1M$ . As well,  $\{gu-\}$  occurs optionally with general nouns, descriptives,

```
i) bama ngu-ji.rra ngu-borrwu.ja
Decl<sub>t</sub>C1 = +S: C1 + P:Tr Phr
head 1s-be.punct ls:3s-consider.cont 'my head considers it'
```

v) ngu-bama ngu-yina.nga Decl<sub>i</sub>Cl = +LI:st n +<sub>i</sub>P:Intr Phr acc-head ls-say.imperf 'in my head I say. . .'

vii) bama ngu-ji.rra nguna-bu.na

Decl<sub>t</sub>Cl = +0: Cl +<sub>t</sub>P:Tr Phr

head's ls-be.punct 3s:ls-hit.perf 'he hit my head'

And the following are examples in which the body part is a general noun.

ix) mu-mamama wupa ngu-borrwu.ja

Decl<sub>t</sub>Cl = +LI:Source Content Phr +<sub>t</sub>P:Tr Phr
acc-brain inside ls:3s-consider.cont
'I consider it just with (my) brains'

x) mamama wupa ngu-borrwu.ja

Decl<sub>t</sub>Cl = +0:Source Content Phr + P:Tr Phr
brain inside ls:3s-consider.cont 'I think just about brains'

<sup>1</sup> See footnote p.52.

Four tagmemes are used in Burarra to express the semantic concept of location-instrument involving body parts: S, F, LI and M of the Intransitive Predicate Phrase. Contrastive examples of a stative noun manifesting these tagmemes, as well as O, follow.

ii) bama ngu-ji.rra wupa ngu-borrwu.ja

Decl<sub>t</sub>Cl = +S:Source Content Phr +<sub>t</sub>P:Tr Phr

head ls-be.punct inside ls:3s-consider.cont 'from my head considers it'

iii) bama wupa a-ji.rra

Decl Cl = +S:Source Content Phr + P:Intr St Phr

head inside 3s-be(vertical).punct

'just his head was sticking up'

demonstrative descriptives, and the Descriptive and Classifying Phrases; but not with proper nouns, locatives, or demonstrative locatives.

Examples of LI in clauses follow:

- 11) a-barrngumi.ya gu-mannga
  Decl<sub>1</sub>Cl = +<sub>1</sub>P:Intr Phr +LI:gen n
  3s-enter.cont acc-jungle
  'he entered the jungle'
- 111) a-yalpu.rda gu-bol

  Decl<sub>t</sub>Cl = +<sub>t</sub>P:Tr Phr +LI:gen n
  3s:3s-cook.punct acc-fire
  'he cooked it on the fire'
- v) ana-bama gu-bu.na

  Decl<sub>t</sub>Cl = +LI:st n +<sub>t</sub>P:Tr Phr
  acc-head 3s:3s-hit.perf
  'he hit it with his head'
- vi) janguny ny-bama ng-gurrmu.rra

  Decl<sub>t</sub>Cl = +0:gen n +LI:st n +<sub>t</sub>P:Tr Phr

  story acc-head ls:3s-put.punct

  'I put the story in your head'
- vii) gu-yigipa gu-rrawa nguburr-ni.pa barra

  Decl<sub>is</sub>Cl = +LI:Descr Phr +<sub>is</sub>P:Intr St Phr +A:asp wd

  acc-his acc-country incl:pl-be.rep future

  'we will live in his country'
- viii) borndok mu-guyinda bama a-ji.rra

  Decl<sub>t</sub>Cl = +LI:Class Phr +0:Decl<sub>1s</sub>Cl

  spear:thrower acc-that:does:like head 3s-be.punct

  a-bu.na

  +<sub>t</sub>P:Tr Phr

  3s:3s-hit.perf

  'he hit him in the head with something like a spear

  thrower'

ix)

Darwin

Decl<sub>1</sub>Cl = +IO:Prop n

Darwin

Darwin

Darwin

Darwin incl:pl-go.cont

'we go to Darwin in a motor car or aeroplane'

## 4.4. TIME

The Time Tagmeme, T, is optional in all clause types, and answers the questions gu-yinpa 'when?' and gu-yinmiyapa 'how many?' (referring to days, months, etc.). T may be manifested by temporals, ordinals, the descriptive ana-munya 'night', the Count Phrase, and the Relator-Axis Time Clause, which may be defined as having an axis manifested by the following: waypa 'at that time', nuwurra 'later', and nuwurra waypa 'later when'.

The accompaniment prefix  $\{gu-\}$  has only been observed in the T Tagmeme occurring with the descriptive ana-munya 'night', where it is obligatory, or in the P in a RA Time Clause (see example v below).

- 111) a-bupiya.na ana-munya
  Decl<sub>1</sub>Cl = +<sub>1</sub>P:Intr Phr +T:descr
   3s-descend.perf acc-darkness
   'he came down at night'

'when the sun's over there, in the evening, we'll go'

vi) nuwurra ngulam nguwurr-boy Decl,Cl = +T:RA Time Cl +, P: Intr Phr morning incl:pl-go later 'later when it's morning we'll go' vii) barra a-bengga nuwurra waypa Decl,Cl = +T:RA Time Cl at:the:time future 3s-arrive later nguburr-wengga barra nguburr-ni P:Intr Phr. . . +A:asp wd . . . . P incl:pl-speak future incl:pl-do

## 4.5. ASPECT

The Aspect Tagmeme, A, is optional in all clause types, expressing the extent to which the action of the predicate is realised. A reflects the concepts of the repetition and completive aspect suffixes which occur on verbs (see Clasgow 1977a), but as may be seen in examples i and ii below, manifestations of A are compatible with, but semantically independent of the verbal suffixes.

A is semantically distinct from T (compare example iv below with Section 4.4., example ii).

'later when he arrives we will talk'

A may be manifested by one of the following aspect words: gipa 'already', burdak 'yet', barra 'future',  $^{1}$  mu-nguy 'further', and mola 'again'.

Examples of A in clauses follow:

The Aspect Tagmeme, when manifested by barra 'future', can occur following any other clause level tagmeme and interrupting the predicate phrase following the modifier or head, allowing stylistic emphasis by the relationship of barra to the various elements of the clause. When it occurs clause initially, barra functions as a purposive conjunction on the sentence level.

- v) mola jurdach a-wengga barra

  Decl<sub>1</sub>Cl = +A:asp wd +T:ordinal +<sub>1</sub>P:Intr Phr +A:asp wd

  again last 3s-speak future

  'he will speak again, the last time'

### 4.6. MANNER

The Manner Tagmeme, MNR, is optional in all clause types. It denotes the manner in which the action of the predicate is performed, and always occurs adjacent to the predicate phrase. MNR is distinguished from the modifiers of predicate phrases by the more general distribution of its manifestations, which contrast with the idiomatic combinations of predicate modifier and head.

MNR may be manifested by adverbs, the locatives waykan 'high' and wupa 'under' with verbs of speech indicating degree of loudness, and by intransitive verbs, and by declarative and subjunctive transitive clauses with Aux<sub>2</sub> obligatorily absent, and by descriptive clauses with Aux obligatorily absent. The verbal and clause manifestations of MNR are recognised as MNR, rather than a separate clause, by their function of modifying the predicate, by intonation, and by restrictions on their expansion.

Examples of MNR in clauses follow:

- vi) jambaka gun-nyagara nyirri-ninya

  Decl<sub>1</sub>Cl = +MNR:<sub>d</sub>Cl +<sub>1</sub>P:Intr Phr

  tobacco cl-nothing excl:dl-sit:perf

  'we were without tobacco'

## 5. PERIPHERAL TAGMEMES

There are three peripheral tagmemes which express an attitude or an inquiry about, or call for attention to the content of the clause.

### 5.1. MOOD

The Mood Tagmeme, MD, is optional in all clause types, expressing negation, certainty, supposedness, comparison, 'nevertheless', or instruction. MD is semantically distinct from MNR, and may be manifested by any one of the following mood words noted to date, and by the descriptive gun-burral 'true'.

gala ganapa <sup>1</sup>	'negative' 'stop'	minypa/michpa/ galngu/marunga	'it's like'
jarra	'rather'	ngardawa	'because'
jimarna	'supposedly'	ngika	'no'
marrban/wurpiya	'even though' 'try' 'if,isn't it so?'	waya waygaja	'certainly'
marrka			'perhaps'
minja <sup>1</sup>		wuriya	'anyway'
		wurpa	'finality'

The indicative forms of ganapa and minja, ganapiya 'it is finished' and minjiya 'it is so' respectively, manifest dP, functioning on sentence, paragraph and discourse levels.

Examples of MD in clauses follow:

- ii) jarra ngu-ni
  Decl<sub>i</sub>Cl = +MD:md wd +<sub>i</sub>P:Intr Phr
   rather ls-be:perf
   'but rather I stayed'

- vi) gun-burral jiny-burrmanybu.na

  Decl<sub>t</sub>Cl = +MD:descr +<sub>t</sub>P:Tr Phr

  cl-true 3s:3s-call:by:kin:name.perf

  'he really treated her as kin'

## 5.2. INDETERMINATE

The Indeterminate Tagmeme, INDT, is optional in all clause types except imperative clauses, where it is obligatorily absent. INDT expresses indeterminateness about the non-peripheral elements of a situation, and is used largely to elicit information in the form of specific clause-level tagmemes (see Sections 3.1.-4.4.), or co-occurring with negative in the MD Tagmeme it expresses what must not occur (see example v, Section 5.1.).

```
INDT may be manifested by the indeterminate descriptives:
{gun-}nga
                'what' (See ordinary descriptive derived from {gun-}nga,
                        Section 3.2., example v.)
{gun-}an.gaya
                'which one?'
{gu-}yinga
                'with it that does what?'
{gu-}guyinmiya 'with it that does how?'
and by the indeterminate particles:
                (interrogative)
y a
                'can?, why not?'
yama
                'can also?'
yapa
                 'which?'
yina
and by variations of the indeterminate verb:
-yinmiya/-yin
                   'how do'
-yinmiyapa/-yinpa 'how many?, when?'
and by the Locative Interrogative, Referent, and Why Phrases. 1
   Examples of INDT in clauses follow:
                                 nyi.na-bo.na
1)
              an-nga
    Decl,Cl = +INDT:indt descr +,P:Intr Phr
                                 2s.toward-go.pref
              cl-what
               'what did you come for?'
ii)
              ana-nga
                                 ny-bu.na
    Decl<sub>t</sub>Cl = +INDT:indt descr +<sub>t</sub>P:Tr Phr
              acc-who
                                 2s:3s-hit.pref
               'who did you hit?'
iii)
                               jal nyi-ni
               mun-an.gaya
    Decl<sub>is</sub>Cl = +INDT:indt descr +<sub>is</sub>P:Intr St Phr
                                  desire 2s-be:perf
               cl-cl.place
                'which one did you want?'
iv)
               gu-yinga
                             barra nguburr-boy
    Decl<sub>1</sub>Cl = +INDT:indt descr +A:asp wd +<sub>1</sub>P:Intr Phr
              acc-that:does:what future
                                               incl:pl-go
               'by what means shall we go?'
               gu-guyinmiya
                                    ng-gornda
v)
    Subj_Cl = +INDT:indt descr +, P:Tr Phr
              acc-it:that:does:how ls:3s-cut
               'what could I cut it with?'
```

See Appendix B, Conjunctions.

- vi) gun-burral ngarripa marn.gi ya

  Decl<sub>d</sub>Cl = +MD:descr +S:nom prn +<sub>d</sub>P:gen n +INDT:indt part
  cl-true incl:s understanding interrogative
  'you and I really know, don't we?'
- vii) yama nguna-wu Subj<sub>t</sub>Cl = +INDT:indt part  $+_t$ P:Tr Phr why:not 2s:ls-give:to 'why don't you give it to me?'
- viii) ngu-yinmiya barra ngu-yarlapa

  Decl<sub>1</sub>Cl = +INDT:indt vb +A:asp wd +<sub>t</sub>P:Tr Phr

  ls-how:do future ls:3s-fix

  'how can I fix it?'
- ix) gu-yinmiya.pa barra nyi-ni
  Decl<sub>is</sub>Cl = +INDT:indt vb +A:asp wd +<sub>is</sub>P:Intr St Phr
  3s-how:do.rep future 2s-be
  'how long will you stay?'
- x) gu-yin.pa barra a-bengga

  Decl<sub>1</sub>Cl = +INDT:indt vb +A:asp wd +<sub>1</sub>P:Intr Phr

  3s-how:do.rep future 3s-arrive

  'when will he arrive?'
- xi) yina gaya barra ngubi-yalpa
  Decl<sub>t</sub>Cl = +INDT:Loc Interrog Phr +A:asp wd +<sub>t</sub>P:Tr Phr
   which place future incl:pl:3s-cook
  'where will we cook it?'
- xii) yina gaya wenga a.na-bo.na
  Decl<sub>1</sub>Cl = +INDT:Loc Interrog Phr +<sub>1</sub>P:Inyr Phr
   which place from 3s.toward-go.perf
  'where did he come from?'
- xiii) an-jarral yina an-gaya

  Decl<sub>d</sub>Cl = +S:descr +INDT:indt part +<sub>d</sub>P:dems descr
  cl-whisker which cl-place
  'where is old man?'

(Note that the Ref Phr here has the same function as the descriptive manifesting INDT in example i.)

#### 5.3. VOCATIVE

The Vocative Tagmeme, V, is optional in all clause types specifying or calling for the attention of the person addressed. V may be manifested by proper nouns, nouns and descriptives which are used as terms of respect, kinship terms, and the attention word with its variations for masculine and feminine indicative, a-lay, a-jay respectively 'hey'; negative, a-la, a-ja, used when showing disagreement; and emphatic with reference to something previously mentioned, ngarla, ngaja.

Examples of V in clauses follow:

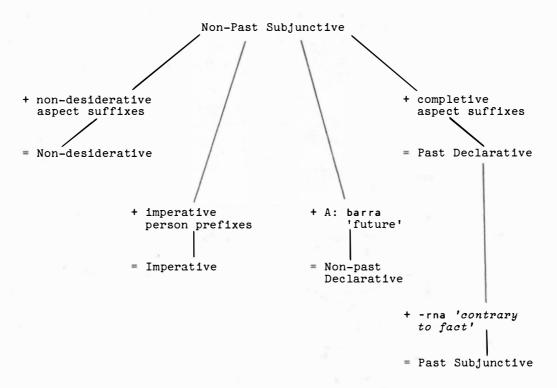
- 11) gala jal ngu-ni a-la Subj<sub>is</sub>Cl = +MD:md wd +<sub>is</sub>P:Intr St Phr +V:att wd negative desire ls-do hey:masc:neg 'hey, no, I don't want to'

# 6. VARIETIES OF VERB FORM AND THEIR FUNCTIONS

The basic form of the Burarra verb is the non-past subjunctive. The diagram below shows how non-desiderative, imperative, the various declarative forms, and past subjunctive are derived. As well, imperative and past and non-past subjunctive may be multiplied by negative, and all forms may be multiplied by repeated action. The function of these forms is outlined in 6.1.-6.8.

<sup>&</sup>lt;sup>1</sup>See Appendix B, Conjunctions.

# DIAGRAM 2



X Negative (Past or non-past subjunctive, descriptive clauses, and non-past declarative + MD: gala 'negative' or ngika 'no'.

Also imperative + MD: ganapa 'stop' or ngika 'no'.)
X Repeated Action (All forms + repetition suffix -pa.)

#### 6.1. NON-PAST SUBJUNCTIVE

The non-past subjunctive expresses a current potentiality which functions in the English senses of 'could in the future' or 'could have recently' (see the section on tense, Glasgow 1977a).

Some examples of non-past subjunctive follow:

- 1) burraya nguwurr-boy
  SubjiCl = +T:temp + P:Intr Phr
  soon incl:pl-go
  'we could go soon'

# 6.2. NON-DESIDERATIVE

The co-occurrence of a non-desiderative aspect with non-past sub-junctive expresses warning about a future contingency. Non-desiderative often co-occurs with the simultaneous manifestation of MD by gala 'negative', and INDT by yapa 'can also', with the total meaning 'lest also' (see example iii below).

Some examples of non-desiderative follow:

```
111) gala yapa ana-werranga a-na.n

Subj<sub>t</sub>Cl = +MD:md wd +INDT:indt part +S:descr +<sub>t</sub>P:Tr Phr

negative can:also acc-other 3s:3s:see.ndes

'lest someone else see him'
```

#### 6.3. IMPERATIVE

Imperative expresses a command to a second person or persons. Imperative verb forms are derived by the co-occurrence of the imperative person prefixes with the non-past subjunctive. All intransitive imperative person prefixes and the transitive imperative person prefixes where second person acts on third person singular are distinct from normal intransitive and transitive person prefixes (see Glasgow and Kerr 1964) as follows, except that the 'normal' prefix instead of the zero second person imperative prefix co-occurs with the first order verb prefixes which express direction (see example vii below).

<sup>&</sup>lt;sup>1</sup>The concept of first person imperative 'let us go', etc., is expressed by the non-past subjunctive.

2nd pers sg (intr or with 3rd sg 0):

2nd pers dl (intr or with 3rd sg 0) masc:

fem:

birriny
2nd pers pl (with intr verbs):

(with tr vbs 3rd sg 0):

bubur
bubu-/bubi-/buwu
(phonologically

conditioned variants)

Where the object is other than third person singular, the imperative person prefixes are the same as for other transitive clauses (see example v below).

The maximum of four tagmemes in an imperative clause has been described in Section 1.5., and the absence of the F, T, and INDT Tagmemes from imperative clauses has been mentioned in Section 1.2. As well, the only manifestations of MD which occur in imperative clauses are those which make the command a negative one, that is, ganapa 'stop' and ngika 'no', or gun-burral 'true', which adds intensity.

Examples of imperative clauses follow:

```
i) a-lay nyiburr-werranga ngujuta
Imp<sub>t</sub>Cl = +V:att wd +S:descr +LI:dems loc
hey:masc:indic excl:pl-other here
bubi-yalpa
+<sub>t</sub>P:Tr Phr
2pl:3s:imp-cook
'hey, you others cook it here'

ii) birri-wengga birri-ni
```

Imp\_Cl = +iP:Intr Phr
2dl:imp-speak 2dl:imp-do
'you two keep talking'

v) gun-burrai murna njirri-wu jarlakarr
Imp<sub>t</sub>Cl = +MD:descr +<sub>t</sub>P:Tr Phr +I0:gen n
cl-true hand 2s:excl:dl-give:to road
'really give the way into our care'

vi) ganapa nguna-rrenja
Imp<sub>t</sub>C1 = +MD:md wd +<sub>t</sub>P:Tr Phr
stop 2s:ls-be:on
'stop stepping on me'

vii) bol nyi.na-ga
Imp<sub>t</sub>Cl = +0:gen n +<sub>t</sub>P:Tr Phr
 firewood 2s:3s.toward-bring
'bring firewood'

#### 6.4. NON-PAST DECLARATIVE

The non-past declarative is derived by the co-occurrence of barra 'future' with the non-past subjunctive. It expresses a situation which in the mind of the speaker will occur, fulfilling a function similar to that of the English future tense, and having connotations of certainty absent in the subjunctive. Compare the declarative statement of a possibility in example i below, with the subjunctive possibility expressed in example i, Section 6.1.

- 1) burripa waygaja jichicha awurr-boy barra

  Decl<sub>i</sub>Cl = +S:nom prn +MD:md wd +IO:gen n +<sub>i</sub>P:Intr Phr +A:asp wd

  3pl maybe seafood 3pl-go future

  'perhaps they'll go for fish'

#### 6.5. PAST DECLARATIVE

The past declarative is derived by the co-occurrence of completive aspect suffixes with the non-past subjunctive. It expresses the completeness of an action begun in the past or perfect, punctiliar, continuous, or imperfect, the completive aspects which may occur with particular verbs being a major distinguishing feature of the verb classes. (For a full description of aspect and how it relates to tense, see Glasgow 1977a.)

Examples of past declarative follow:

i) m-ba.nga Sentence = +Decl<sub>t</sub>Cl

3s:3s-eat.imperf 3s-go.cont

mu-wuleba.rda
+Decl\_Cl

3s:3s-finish.punct

'he kept on eating it and finished it up (recently)'

3s:3s.toward-take.cont 3s.toward-go.perf
'he brought it (today or long ago)'

#### 6.6. PAST SUBJUNCTIVE

The past subjunctive is derived by the co-occurrence of the second order verb suffix -rna 'contrary to fact' with the past declarative, in effect negating the co-occurring completive aspect.

Examples of past subjunctive follow:

#### 6.7. NEGATION

Negation is derived by the co-occurrence of the MD tagmeme manifested by gala 'negative' and/or ngika 'no' with the past subjunctive in the sense of 'did not', with the non-past subjunctive and in descriptive clauses with the sense of 'is not', and with non-past declarative in the sense of 'will not'. (For negated command see Section 6.3., example vi.)

Examples of negation follow:

- 111) gun-burral ngika  $Decl_{d}C1 = +_{d}P:Descr P Phr + MD:md wd$  cl-true no'it isn't true'

# 6.8. REPEATED ACTION

Repeated action expresses an action as being repeated or frequent, in contrast to habitual action expressed by the Aux<sub>2</sub> verb workiya. (Note connotations of 'ever' where these two co-occur, examples iv and v below.) Repeated action is manifested as the optional third order verb suffix -pa on all forms.

Some examples of repeated action follow:

- ii) boy.pa
  Imp\_Cl = +\_iP:Intr Phr
  2s:imp:go.rep
  'go as always'
- 111) a-ba.rra.pa a-wuleba.na Sentence =  $+Decl_tCl$   $+Decl_tCl$

#### 7. CONCLUSION

In this paper we have dealt with all the elements of Burarra clauses, bringing them into a unified description. And as the clause is the central, most productive Burarra construction, its description serves to clarify the adjacent levels of phrase and sentence as well.

Something of the Burarra world view is also seen in the importance given to the participant tagmemes, S, O, and BEN, which are obligatorily signalled in the predicate; and the importance of locational concept which is present in three of the lateral tagmemes, IO, F, and LI.

And finally, an awareness of the frequency with which clauses of different numbers of tagmemes occur is valuable for communication, particularly translation.

# APPENDIX A OUTLINE OF BURARRA PHONOLOGY AND ORTHOGRAPHY

The following are the Burarra phonemes and orthography used in the accompanying paper. They are based on an unpublished revision (Glasgow 1974) of an earlier paper (Glasgow 1967).

# CONSONANTS

Burarra contains twenty consonant phonemes, as shown in Table 1.

TABLE 1

	Bilabial	Alveodental	Alveolar	Retroflex	Velar
Stops	р	tj	t	ţ	k
	b	dj	ă	ģ	g
Nasals	m	ñ	n	ù	ŋ
Laterals			1	1	
Non-syllabic vocoids	w	у		ŗ	

The orthographic representations of these phonemes are shown, in corresponding positions, in Table 2.

TABLE 2

Р	c h	t/d*	rt	k
ь	j	rr	rd/d <sup>#</sup>	g
m	ny	n	rn/n#	ng
		1	r1/1 <sup>#</sup>	
w	У		r	

\*d after alveolar nasals; #d, n, 1 stem initial, and d after retroflexed nasals.

NOTE: The symbol n.g is used to distinguish the orthographic combination n+g from ng.

# 2. VOWELS

There are five emic vowels in Burarra, as shown in Table 3.

TABLE 3

	Front	Central	Back
High	ī		u
Mid	æ	100	э
Low		a	

These are represented orthographically, as shown in Table 4.

TABLE 4

1	u
e	0
	a

# 3. ALPHABET

Accordingly the approved Burarra alphabet used for all publications is:

#### APPENDIX B

#### CONJUNCTIONS

Conjunctions will be described more fully in a subsequent paper on sentence-level, but they are given here in summary for reference with the accompanying paper.

Six Burarra conjunctions have been noted to date operating on one or more levels as follows:

```
'first', 'immediately'
                                  (sentence level)
gugu
lika
         'then'
                                  (sentence level and above)
nuwurra
         'later'
                                  (clause and sentence levels)
         'and so'
rraka
                                  (sentence level and above. For an
                                  example of rraka functioning above
                                  sentence level, see Section 5.2.,
                                  example xvi.)
         'and'
rrapa
                                  (phrase and sentence levels and above)
warrika
         'immediately'
                                  (sentence and/or paragraph level)
         'at that time'
                                  (clause level)
waypa
wurra
         'but'
                                  (phrase and sentence levels and above)
wurriya
         'and why is it?'
                                  (discourse level)
```

For examples of nuwurra and waypa on the clause-level, see Section 4.4., examples v, vi and vii. Examples of conjunctions joining clauses on the sentence-level follow.

```
1) awurriny-jarlmu.na gurda lika

Sentence = +Decl<sub>1</sub>Cl +Conj

3dl:fem-get:up.perf toward then

rrawa awurriny-be.na
+Decl<sub>1</sub>Cl

camp 3dl:fem-arrive.perf

'They got up to come, and then they arrived at the camp.'
```

- 11) nipa jin-ngardapi.ya wurra birripa aburr-jaranga Sentence =  $+Decl_dCl$  +Conj +Decl\_dCl 3s cl-alone.refl but 3pl 3pl-many 'She is one, but they are many.'
- iv) gu-yinarda barra gu-ni nuwurra jurdach a-benggaSentence =  $+Decl_{1S}Cl$  +Conj  $+Decl_{1}Cl$  3s-indef vb future 3s-be then last 3s-arrivebarra
  future
  'It will be like that, then afterwards he will arrive.'

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# THE RELATIONSHIP OF VERB AFFIXATION AND CLAUSE STRUCTURE IN MURINBATA

Chester S. Street

# O. ABBREVIATIONS

a-pal. alveo-palatal
Appos. Appositional
Ben. Benefactive
Caus. Causative
Co-ord. Co-ordinate
Dem. Demonstrative

du. dual

exclusive excl. ſ. female generic gen. habitual hab. imperative imp. incl. inclusive Instr. Instrument interr. interrogative Interr. Interrogative Intrans. Intransitive IO Indirect Object

IVP Intransitive Verb Phrase

Lit. Literally
Loc. Locative
m. male
Mod. Modified
NC Noun Class
NM Number Marker

NP Noun Phrase

O Object

P. Phrase

pc. paucal Per. Periphery

pl. plural

Poss. Possessive

Pr. Predicate
Pred. Predicate

ref. reflexive

sb. sibling sg. singular

subjunc. subjunctive

t. tense

Trans. Transitive

TVP Transitive Verb Phrase

VP Verb Phrase

#### INTRODUCTION

The purpose of this paper is to give a detailed description of some Clause types in the Murinbata language, namely, the Transitive, Di-Transitive, Intransitive, Reflexive and Stative Clauses in the Declarative Indicative mode.

Murinbata belongs to the Garaman language family which is a member of the Australian Macro-phylum family (Voegelin and Voegelin, 1977:135). It is spoken by approximately 900 people, the majority of whom live at Port Keats, Northern Territory, 250 kilometres to the south-west of Darwin. A small number live on nearby cattle stations, with the largest groups at Auvergne Station N.T. and Kununurra W.A.

This paper has been written after approximately three years of study of this language. The analysis of this particular paper was done during a five week Linguistic Workshop at the Summer Institute of Linguistics (S.I.L.), Berrimah, N.T., from 12th July - 18th August, 1977, conducted by Alan Healey.

The author is very grateful for the willing and able help given at the Workshop by language helper Peter Kumyep Bunduck and for the consultant help given by Alan Healey and Mike Ray also of S.I.L. Thanks is also given to Harry Palada Kulampurut, who has given me a large quantity of language material during my stay at Port Keats, much of which was also used for the analysis of this paper.

The previous work done on this language by Michael Walsh has also greatly helped and encouraged me in the study of Murinbata.

The language spelling used throughout this paper is the literacy orthography, which is explained more fully in Tables 1 and 2 below.

TABLE 1 VOWELS

	Front	Non-front
High	i	u
Non-high	е	a

TABLE 2
CONSONANTS

	Labial	Apico- alveolar	Retro- flexed	Lamino- a-pal.	Velar
Voiceless Stops	р	t	rt	th	k
Voiced * Obstruents	b	d	rd	dh	g
Nasals	m	n	rn	nh	ng
Laterals	445	5.1.57	rl	ly	10.
Medians	W	rr /	r	у	

<sup>\*</sup>dh is a fricative, b, d, rd and g are stops

The Lamino alveo-palatal voiceless stop, voiced obstruent and nasal each have two allophones as follows. The dental allophones  $[\underline{t}, \underline{e}, \underline{n}]$  only precede the non-front vowels a and u. The Lamino alveo-palatal allophones  $[\underline{t}, \underline{d}, \overline{n}]$  only precede the vowels i and e.

Examples showing the allophones:

thapak	[ <u>t</u> apak]	'fog/dew'
thimu	[ţ.mv]	'nose'
madhalnu	[madalnu]	'I'll open it.'
dhekdhek	[gekgek]	'to play'
punhu	[pu <u>n</u> u]	'liver'
kanhi	[kañi]	'this/here'

# 1.1. PERIPHERAL TAGMEMES

Peripheral tagmemes occur in all Bi-dimensional Arrays for the clause types of this paper, and many types are also given in the

accompanying examples. However, little information is given about peripheries in this paper, other than the fact there are five types of peripheral tagmemes which are:-

- i. Time
- ii. Instrument
- iii. Accompaniment
- iv. Reason
- v. Location

# 1.2. SUBJECT, OBJECT AND INDIRECT OBJECT TAGMEMES

At least a Subject, Object, or Indirect Object is shown in the Bidimensional Arrays for the clause types in this paper. The fillers of these slots have been merely shown as 'Various Noun Phrases', the reason being that Phrase Level as such has not been analysed to date. However, many of the Phrase types possible are shown in the examples.

#### 1.3. PREDICATE

Each Clause type in this paper shows in the Bi-dimensional Array an obligatory Predicate. The Predicate slot can be filled by various types of Verb Phrases.

A Verb Phrase consists of an obligatory verb (which is the verb root plus affixes), plus optional auxiliary verbs which determine continuous, non-continuous and habitual aspects, and optional modal words of various types.

All Verb Phrases can be negated by the addition of the negative word mere, which precedes the Verb Phrase.

#### 1.4. VERB AFFIXES

The verb can be affixed with the following:

- 1. Subject affixes these are not listed in this paper (Refer Street 1978, Appendix 2)
- 2. Object A affixes (see appendix)
- Object B affixes (see appendix)
- 4. Incorporated body part prefixes (see appendix)
- 5. The Source prefix ma-

The function of these affixes affixes and how they show agreement with the Clause structure, will be described in each Clause type.

Other affixation to the verb includes Tense (Street 1975:24-6). This is not dealt with in this paper, however the examples will give a good coverage of the possible tenses.

Verb affixation follows a set order, and the full potential of this affixation is shown in Table 3.

	TABLE 3	
VERB	AFFIXATIO	N ORDER

Subject	Object A	ma-	verb root	Subject
	Object B	Incorporated body part	100	Object A
		(IBP)		Object B

Table 13 in Section 11 shows (apart from tense) the affixation of the verbs for each Clause type. Note that in Table 13 no affixation is shown following the verb root, this has been omitted for clarity. Affixation will only follow the verb root when the subject is in the paucal number or when the object is in the dual or paucal number.

#### 1.5. CLAUSE TYPES

Table 13 in Section 11 also shows the close relationship of the verb affixation with the clause structure. For this reason it has been necessary to posit four Transitive Clauses, a Di-Transitive, a Stative and three Intransitive Clauses.

Quite a number of the same verb roots can manifest themselves in all four Transitive Clauses. However, the majority of Di-Transitive and Stative Clauses uses a different set of verbs for each particular Clause type.

The Intransitive Clause verbs are manifested by only a small number of verbs, whereas the Intransitive Source and Intransitive Benefactive/Goal Clauses use a large variety of verbs which are mostly interchangeable.

# 1.6. REFLEXIVE CLAUSES

Clause types 2, 3, 4, 5, 7, 9 and 10 can all be reflexive in action. One reflexive example has been included at the end of the other examples given for each clause type.

A verb maybe transformed into a reflexive verb by one of the following rules:

- a) Many verb classes have a corresponding reflexive verb class (Street 1978 refer Appendix 2) which is used when a reflexive action is required. (See examples 27, 57, 84 and 86.)
- b) Verb classes which do not have a corresponding reflexive verb class use the prefix  $n_{i-}$  positioned in the verb adjacent to, or in the place of the object prefix (see examples 17, 37, 45, 73 and 80).

This  $\binom{nu}{ni}$  prefix can also be used with verb types mentioned in a) above, but is optional (see examples 27, 57 and 84), whereas it is an obligatory prefix for verbs belonging to verb classes without a corresponding reflexive verb class.

#### 2. THE TRANSITIVE GOAL/INSTRUMENT CLAUSE

The Transitive Goal/Instrument Clause consists of an obligatory Predicate and optional Subject, Object and Goal or Instrument Tagmemes (both cannot occur in the same clause).

The verb of the Transitive Goal/Instrument Clause has obligatory subject and optional object, goal or instrument affixation. The subject affix shows agreement with the Subject Tagmeme, the object affix shows agreement with the Object Tagmeme and the goal/instrument affix shows agreement with the Goal or Instrument Tagmemes.

The object affixation is normally only manifested in the verb when the object is human, (although sometimes it is manifested for non-human objects) in which case the set of Object A affixes are used. (Examples 5, 6, 14, 15 and 16 show no object affixation for non-human objects within the verb.) Although the Object Tagmeme in the Clause and the object affixation in the verb are both optional, it is obligatory to have one of these manifested in the Clause structure.

The goal/instrument affixation can only be manifested in the verb if the goal or instrument of the action is a body part, in which case the Incorporated set of body parts are used. (Examples 4, 11, 12, 13 and 17.)

Note: See Appendix for full list of Incorporated body parts and Object A affixes.

Transitive Goal/Instrument verbs consist of such verbs as: to get, to leave, to cut, to lay, to follow, to kick, to replace, to make, to draw, to hit, to bite, to roll up, to eat, to bring, to put, to chase, to catch, etc.

TABLE 4
BI-DIMENSIONAL ARRAY FOR TRANSITIVE GOAL/INSTRUMENT CLAUSE

± Per.	± Subject	± Object	+Pred.	± Goal/ Instr.	± Per.
14.1	Various NP	Various NP	Trans.	Goal P.	
		9		Poss. Goal P. Instr. P. Poss. Instr. P.	

#### PERMUTATION RULES:

- 1. Object can also follow the Predicate.
- 2. Subject can also follow the Predicate.

# Examples:

- 1) O:NP Pr:TVP

  kardu wakal ma-ngan-ø-bert

  NC (human) small I(sg.)-t.-him-get

  'I got the child.'
- 2) Pr:TVP
   thi-ngi-pup-nu
   you(sg.)-me-lay-t.
   'You will lay me down.'
- 3) O:NP Pr:TVP Per:(Loc.)

  Marru nga-ø-riwak-nu tharra ngipilinh wangu

  Marru I(sg.)-him-follow-t. quickly river way

  'I'll follow Marru to the river.'
- 4) S:NP Pr:TVP Goal:Poss. Goal P.

  ngay ngunu-ngam-nhi-ngurru-rida ngurru nhinhi

  I(sg.) I(sg.)-t.-you(sg.)-side-kick side your(poss.)

  'I kicked you in the side.'
- 5) S:Appos. NP O:Mod. NP

  ngankuneme nugarn-ka ku menti

  we(excl.pc.m.) men-(focus) NC(animal etc.) turtle

  Pr:TVP

  teret ngarra-m-ka-warl-neme

  many we(excl.)-t.-NM-spear-we(pc.m.)

  'We men speared many turtles.'
- 6) O:NP Pr:TVP

  mi dhepdhep ngula-m-ath werrngka

  NC(food) food(gen.) I(sg.)-t.-eat quickly

  'I ate the food quickly.'
- 7) S:Serial NP

  yile ngay peneme-ka ku lawarnka

  father my(poss.) they(pc.m.)-(focus) NC(animal etc.) wallaby

  Pr:TVP

  O:Appos. NP

  warda panthe-\$\psi\$-dha-neme punna ku ngala

  then they brought-it-t.-(pc.m.) (aspect) NC(animal etc.) large

  'My father and the men were then bringing a wallaby, a big one.'

  NOTE: In this example the Object is broken by the Predicate.

- 8) Pr:TVP O:NP Per:(Loc.)

  | ba-n-\$\phi\$-pak Land-Rover-yu ngamimarda wangu

  and he-t.-it-put Land-Rover-(focus) otherside way

  '...and he put (parked) the Land-Rover on the otherside.'
- 9) O:NP Pr:TVP Per:(Loc.)

  nukunu ngudu-\phi-ngkarl-nu ngarra kale nukunu

  he I(sg.)-him-replace-t. to mother his(poss.)

  'I'll take him back to his mother.'
- 10) O:NP Pr:TVP Per:(Loc.)

  kardu ma-n-berti-nu Wadeye wangu

  NC(human) I(sg.)-them(pl.)-take-t. Wadeye way

  'I'll take the people to Wadeye.'
- 11) Pr:TVP Goal:Poss. Goal P. Per:(Instr.)

  nga-nhi-me-warl-nu ngarra me nhinhi thamul-re

  I(sg.)-you(sg.)-foot-spear-t. at foot your spear-with

  'I'll spear your foot with the spear.'
- 12) O:NP Pr:TVP Goal:Poss. Goal P.

  nanthi du-ngi-ma-pak-nu ngarra mange ngay

  NC(thing) you(sg.)-me-hand-put-t. in hand my(poss.)

  'You will put the thing in my hand.'
- 13) S:NP Pr:TVP O:NP

  Deta-ka nu-ngam-\$\phi\$-me-rtal mi

  Deta-(focus) she-t.-it-foot-pick NC(food)

  Instr:Poss. Instr. P.

  yidi me nigunu-re

  wild apple foot her(poss.)-with

  'Deta picked the wild apple with her foot.'
- 14) Per:(Loc.) O:NP kanganu pana-wa ku kananganthan and half way there-(emphasis) NC(animal etc.) emu Pr:TVP Per:(Instr.) nguma-m-ka-tha-neme nanthi truck ngarra we(excl.)-t.-NM-chase-we(pc.m.) NC(thing) truck with kaka ngay nukunu uncle my(poss.) his(poss.) '...and half way there we chased some emus with my uncle's truck.'

- 15) O:Appos. NP

  ku

  ngurlmirl

  da

  mana

  NC(animals, fish etc.) fish(gen.) NC(time) while

  Pr:TVP

  O:Appos. NP

  S:NP

  di-m-ku

  ku

  pangkithay Yerdi

  he-t.-catch fish

  NC(animals, fish etc.) sword fish

  Yerdi

  'While there, Yerdi caught a fish, a sword fish.'
- 16) S:NP

  ku

  ngalmungkirr-ka

  ku

  NC(animals, birds, etc.) pied goose-(focus) NC(animals, birds, etc.)

  Pr:TVP

  dumdum teret parna-m-pawak

  egg many they(pl.)-t.-lay eggs

  'Pied geese lay many eggs.'
- 17) Pr:TVP
   ngunu-ngam-nu-ngurru-rida
   I(sg.)-t.-ref.-side-kick
   'I kicked myself in the side.'

#### 3. THE TRANSITIVE SOURCE CLAUSE

The Transitive Source Clause consists of an obligatory Predicate and Object and optional Subject and Source Tagmemes.

The verb of the Transitive Source Clause has obligatory subject and source affixation only. The subject affixation shows agreement with the Subject Tagmeme and the source affixation (which is formed by adding the prefix ma- directly following the Object A affixes) shows agreement with the Source Tagmeme.

NOTE: See Appendix for full list of Object A affixes.

#### 3.1. THE SOURCE TAGMEME

Normally, source is signalled by verbal affixation only and does not manifest itself as a separate tagmeme. If, however, the item or participant functioning as source is possessed, then there is likely to be a separate Source Tagmeme filled by a Possessive Source Phrase (example 22).

Transitive Source verbs consist of such verbs as: to leave, to replace, to smell, to lift, to get water, to kick, to lay, to collect, etc.

TABLE 5						
BI-DIMENSIONAL	ARRAY	FOR	TRANSITIVE	SOURCE	CLAUSE	

± Per.	± Subject	+ Object	+ Pred.	± Source	± Per.
	Various NP	Various NP	Trans.	Source P.	
				Poss.	
				Source P.	

#### PERMUTATION RULES:

- 1. Object can also follow the Predicate.
- 2. Source can also precede the Predicate.
- 3. Source can also precede the Object.

# Examples:

18) O:Dem. NP Pr:TVP

nanthi pana thani-ngi-ma-part-nu

NC(thing) that you(sg.)-me-source-leave-t.

'You'll leave that thing with me.'

(NOTE: The source of 'that thing' in this case is 'me')

19) Per:(Time) O:NP Pr:TVP

kunginira mi lawam wuda-n-ngi-ma-ngkarl

yesterday NC(food) damper he-t.-me-source-replace

'Yesterday he took back the damper from me.'

20) 0:NP Pr:TVP

mi thathangadhay me-nhi-ma-yingap-nu

NC(food) wollybutt flower I(sg.)-you(sg.)-source-smell-t.

'I'll smell the flower that you are holding.'

(Lit: 'I'll smell the flower from you.')

21) O:NP Pr:TVP

nanthi nga-m-nintha-ø-ma-wirnturt

NC(thing) we(excl.)-t.-we(du.m.)-him-source-lift

'We two men lifted it from him.'

22) O:NP Pr:TVP

kura patha thi-∮-ma-marda-wurl-nu

NC(water) good you(sg.)-him-source-in-get water-t.

Source: Poss. Source P.

ngarra billy can nukunu kathu

at billy can his from

'You'll get the fresh water from in his billy can.'

- 23) S:NP O:NP Pr:TVP

  ngay nanthi football mere

  I(sg.) NC(thing) football negative

  Source:Source P.

  ngunu-nhi-ma-rida-nukun nhinhi-yu

  I(sg.)-you(sg.)-source-kick-t. you(sg.)-(focus)

  'I won't kick the football from you.'
- 24) O:NP Pr:TVP Source:Source P.

  nanthi karlay ngana-m-ø-ma-part John

  NC(thing) net I(sg.)-t.-him-source-leave John

  'I left the net with John.'

  (NOTE: The source of 'the net' in this case is 'John'.)
- 25) O:NP Per:(Time) Pr:TVP

  wakal ngay nakurlnu ma-nanku-ma-bert-nu-ngintha

  child I(sg.) after I(sg.)-you-source-get-t.-you(du.f.)

  'I'll get my child from you two women after.'
- 26) O:NP Pr:TVP Source:Source P.

  thamul waya puma-ngan-\$\phi\$-ma-rt kaka nukunu nukun

  spear wire they(pl.)-t.-him-source-get uncle his belong

  'They got the fish spear (wire spear) from his uncle.'
- 27) O:NP Pr:TVP

  mi thathangadhay me-nu-ma-yingap-nu

  NC(food) woolybutt flower I(sg.)-ref.-source-smell-t.

  'I'll smell the flower that I'm holding.'

  (Lit: 'I'll smell the flower from myself.')

# 4. THE TRANSITIVE BENEFACTIVE/GOAL CLAUSE

The Transitive Benefactive/Goal Clause consists of an obligatory Predicate and Object and optional Subject and Benefactive or Goal Tagmemes (both cannot occur in the same clause).

The verb of the Transitive Benefactive/Goal Clause has obligatory subject and benefactive/goal and optional object affixation. The subject affix shows agreement with the Subject Tagmeme and the benefactive/goal affix shows agreement with the Benefactive or Goal Tagmeme, and the object affix shows agreement with the Object Tagmeme.

The benefactive/goal affixation uses the Object B set of affixes, and the object affixation can only be manifested in the verb if the object is a body part, in which case the Incorporated set of body parts are used (example 31).

In many of these clauses where a benefactive or goal do not occur as

separate tagmemes it is difficult to know if the actual meaning is benefactive or goal - in such cases the context is needed to provide this information.

Note: See Appendix for full list of Object B affixes and Incorporated body parts.

Transitive Benefactive/Goal verbs consist of such verbs as: to take down, to replace, to lay, to hang, to turn around, to throw, to tell a story, to catch fish, etc.

TABLE 6
BI-DIMENSIONAL ARRAY FOR TRANSITIVE BENEFACTIVE/GOAL CLAUSE

± Per.	± Subject	+ Object	+ Pred.	± Ben./Goal	± Per.
	Various NP	Various NP	Trans.	Ben. P.	
				Poss.	1
				Ben. P.	
				Goal P.	
				Poss.	
	1			Goal P.	

# PERMUTATION RULES:

- 1. Object can also follow the Predicate.
- 2. Benefactive/Goal can also precede the Object.

# Examples:

- 28) O:NP Pr:TVP

  marluk pa-ngarru-thut-nu-nintha

  didgeridoo he-we(excl.)-take down-t.-we(du.m.)

  'He'll bring the didgeridoo down to/for us two men.'
- 29) O:Poss. NP Pr:TVP

  nanthi yi ngay mere wudi-nga-ngkarl-dha
  NC(thing) dilly bag my negative he-me-replace-t.

  da ngatha

  yet

  'He hasn't brought my dilly bag back to/for me yet.'
- 30) Per:(Time) O:NP Pr:TVP

  nakurinu nanthi yi ma-mpa-ngkale-nu

  after NC(thing) dilly bag I(sg.)-you(sg.)-hang-t.

  Per: (Loc.)

  ngarra thay pangu

  at tree over there

  'After I'll hang the dilly bag on that tree over there for you.'

- 31) O:NP Pr:TVP Goal:Goal P.

  pelpith thudu-nga-we-rduy-nu ngarra ngay

  head you(sg.)-me-head-turn around-t. to me

  'You'll turn your head around to me.'
- 32) O:NP Pr:TVP Ben:Poss. Ben. P.

  piru ma-m-na-watha ngem ngathan ngay nukun
  bark I(sg.)-t.-him-make aspect brother my belong
  'I'm making a bark (rainting) for my brother.'
- 33) O:Mod. NP

  ku ngurlmirl ngala nge-m-nge-ku

  NC(animal etc.) fish(gen.) big I(sg.)-t.-her-catch fish

  Ben:Poss. Ben. P.

  kale ngay

  mother my

  'I caught a big fish for my mother.'
- Pr:TVP 34) S:Poss. NP O:NP Per: (Time) kale ngay murrinh wuda-n-nga-yith da ngarra mother my story she-t.-me-tell story time vile ngay-te ba-ngam-ø-lele ku kananturturt father I-when he-t.-him-bite NC(animal etc.) crocodile 'My mother told me a story about the time when my father was bitten by a crocodile.'
- 35) O:NP Pr:TVP Goal:Goal P.
  thu palyerr nu-ngam-na-ku ngarra ku were
  NC(weapon) stone he-t.-him-throw at NC(animal etc.) dog
  'He threw the stone at the dog.'
- 36) PR:TVP O:Dem. NP Goal:Goal P.

  punu-na-bat-nu thamul pana ngarra ku lawarnka

  he-him-throw-t. spear that at NC(animal etc.) wallaby

  'He'll throw that spear at the wallaby.'
- 37) O:NP Pr:TVP
  thamul punu-nu-bat-nu
  spear he-ref.-throw-t.
  'He'll throw the spear at himself.'

#### 5. THE TRANSITIVE BENEFACTIVE SOURCE CLAUSE

The Transitive Benefactive Source Clause consists of an obligatory Predicate and Object and optional Subject, Benefactive and Source Tagmemes.

The verb of the Transitive Benefactive Source Clause has obligatory subject, benefactive and source affixation. The subject affixation shows agreement with the Subject Tagmeme, the benefactive affixation shows agreement with the Benefactive Tagmeme and the source affixation shows agreement with the Source Tagmeme.

The benefactive affixation uses the Object B set of affixes, and the source affixation is derived in the same way as for the Transitive Source Clause (Section 3), except that with this clause type the source can only be in the third person singular (he/she) which is manifested by the  $\phi$  affix.

Note: See Appendix for full list of Object A and Object B affixes. Transitive Benefactive Source verbs consist of such verbs as: to collect, to get, to replace, to get water, to listen, etc. (They are the same set of verbs that occur in the Transitive Source Clause.)

TABLE 7
BI-DIMENSIONAL ARRAY FOR TRANSITIVE BENEFACTIVE SOURCE CLAUSE

± Per.	± Subject	+ Object	+Pred.	± Ben.	± Source	± Per.
	Various NP	Various NP	Trans. VP	Ben. P.	Source P.	_
			_	Poss.	Poss.	
				Ben. P.	Source P.	

#### PERMUTATION RULES:

- 1. Object can also follow the Predicate.
- 2. Source can also precede the Predicate.
- 3. Source can also precede the Object.
- 4. Source can also precede the Benefactive.

# Examples:

- 38) Per:(Time) O:Dem. NP Pr:TVP

  nakurlnu nanthi pana ngani-mpa-\$\phi\$-ma-kut-nu

  after NC(thing) that I(sg.)-you(sg.)-him-source-collect-t.

  'After I'll collect those things from him for you.'
- 39) Per:(Time) O:NP Pr:TVP

  kunginira ku dumdum ngadi-nge-ø-ma-kut-tha

  yesterday NC(animal etc.) egg I(sg.)-her-him-source-collect-t.

  Source:Source P. Ben:Ben. P.

  ngarra nukunu kathu palngun ngay-nu

  at him from wife my-for

  'Yesteday I collected eggs from him for my wife.'

40) O:NP Pr:TVP

kardu wakal ma-mpa-φ-ma-bert-nu

NC(human) child I(sg.)-you(sg.)-him-source-get-t.

'I'll get the child for you from him.'

42) O:NP Pr:TVP

kura patha yi-ngam-ngarra-ø-ma-marda-wurl

NC(water) good he-t.-we(pl.)-him-source-in-get water

Source:Source P.

ngarra nukunu kathu

at him from

'He got the fresh water for us from him.'

(Lit: 'from in something - belonging to him'.)

43) O:NP Pr:TVP Source:Source P.

murrinh di-nga-φ-ma-yepup-nu ngarra John kathu

talk you(sg.)-me-him-source-listen-t. to John from

'You will listen to John for me.'

(Lit: 'the talk from John'.)

nanthi pana ngudu-na-ø-ma-ngkarl-nu
NC(thing) that I(sg.)-him-him-source-replace-t.
Source:Source P. Ben:Ben P.
ku were Ninit-nu
NC(animal etc.) dog Ninit-for
'I'll put back that thing from the dog for Ninit.'

45) O:NP Pr:TVP

kura patha ngi-ngam-nu-φ-ma-wurl

NC(water) good I(sg.)-t.-ref.-him-source-get water

'I got the fresh water from him for myself.'

#### 6. THE VERBAL STATIVE CLAUSE

This type has been called a Verbal Stative Clause because the verbs which are manifested in the Predicate are mostly verbs of state, e.g. to be hot, to be cold, to be thirsty, etc. Other names given to this

type of clause are Psychological or Impersonal (Tryon:1974).

The Verbal Stative Clause consists of an obligatory Predicate and optional Object and Causative Tagmemes.

The verb of the Verbal Stative Clause has obligatory subject and object affixation. The subject prefix shows agreement with the Subject Tagmeme and the Object affix (which translates into English as Subject) shows agreement with the Object Tagmeme.

The only possible subject prefixation is the third person singular form. The object affixation uses the Object A set of affixes.

The incorporated body part prefixes can couple with the object to form a possessive type object (example 51).

Note: See Appendix for a complete list of Object A affixes and Incorporated body parts.

The Verbal Stative verbs consist of such verbs as: to long for, to have a headache, to be angry, to be hot, to be thirsty, to have a toothache, and to have various tired body parts, etc.

TABLE 8
BI-DIMENSIONAL ARRAY FOR VERBAL STATIVE CLAUSE

± Per.	± Object	+ Pred.	± Caus.	± Per.
	Various NP	Stative VP	Caus. P.	
			Poss. Caus. P.	

#### PERMUTATION RULE:

1. Object can also follow the Predicate.

#### Examples:

- 46) Pr:Stative VP Caus:Caus. P.
  de-m-ngi-ralal kura-nu
  it-t.-me-thirsty NC(water)-for
  'I'm thirsty for water.'
- 47) O:NP Pr:Stative VP Caus:Caus. P.

  ngay da-m-ngi-mardathin kaka ngay-nu

  I it-t.-me-long for uncle my-for

  'I am longing for my uncle.'
- 48) Per:(Time) Pr:Stative VP
  kunginira me-ngi-ngkawurl-dha dini
  yesterday it-me-have headache-t. aspect
  'I had a headache yesterday.'

- 49) Per:(Loc.) Pr:Stative VP

  ngarra murlun ba-ngi-burr-nu

  in shade it-me-cool/shade-t.

  'I'll sit in the cool/shade.'
- 50) Pr:Stative VP Per:(Loc.)

  de-m-ngi-yede dim ngarra tina

  it-t.-me-sit in the sun aspect in sun

  'I'm sitting in the sun.'
- 51) Pr:Stative VP O:Poss. NP
  pa-n-ngi-me-rderde me ngay
  it-t.-me-foot-tire foot my
  'My foot is tired.'
- 52) Caus:Caus. P. Pr:Stative VP

  work kanhi-ka pa-n-ngi-mardabay

  work this-(focus) it-t.-me-tire of

  'I'm tired of this work.'

#### 7. THE DI-TRANSITIVE CLAUSE

There are two types of Di-Transitive Clauses, both of which are few in number. They have been called here Di-Transitive A Clause and Di-Transitive B Clause. They consist of an obligatory Predicate and Object and optional Subject and Indirect Object.

The verbs of the Di-Transitive A and Di-Transitive B Clauses have obligatory subject and indirect object affixation. The subject affix shows agreement with the Subject Tagmeme and the indirect object affix shows agreement with the Indirect Object Tagmeme.

The indirect object affixation of the Di-Transitive A Clause uses the Object A set of affixes (example 56), and the indirect object affixation of the Di-Transitive B Clause uses the Object B set of affixes (examples 53, 54 and 55).

Note: See Appendix for complete list of Object A and Object B affixes.

 $\operatorname{\textsc{Di-Transitive}}$  A verbs consist of such verbs as: to show.

Di-Transitive B verbs consist of such verbs as: to give, to say/tell, etc.

± Per.	± Subject	+ Object	+ Pred.	indirect by Object	± Per.
	Various NP	Various NP	Di-Trans. VP	Various NP	

# TABLE 9 BI-DIMENSIONAL ARRAY FOR DI-TRANSITIVE CLAUSES

#### PERMUTATION RULES:

- 1. Object can also follow the Predicate.
- 2. Indirect Object can also precede the Predicate.

# Examples:

- 53) O:NP Pr:Di-Trans. VP
   murrinh ma-m-nga-φ
   talk he-t.-me-say
   'He said (talk) to me.'
   (Note: The verb root of this verb is φ.)
- 54) S:NP O:NP Pr:Di-Trans. VP
  kardu nugarn ku ngen da-m-na-mut
  NC(human) man NC(animal etc.) meat he-t.-him-give
  IO:NP
  kardu kigay
  NC(human) teenage boy
  'The man gave the meat to the teenage boy.'
- 55) IO:NP Pr:Di-Trans. VP O:Poss. NP
  Lakan nga-m-na-mut marluk ngay
  Lakan I(sg.)-t.-him-give didgeridoo my
  'I gave my didgeridoo to Lakan.'
- 56) Pr:Di-Trans. VP O:Dem. NP
  nga-nhi-ngkarr-nu ku pangkuy pana
  I(sg.)-you(sg.)-show-t. NC(animal etc.) snake(gen.) that
  'I'll show you that snake.'
- 57) O:NP Pr:Di-Trans. VP

  ku thithay nge-m-nu-mut

  NC(animal etc.) wild honey I(sg.)-t.-ref.-give

  'I gave the wild honey to myself.'

#### 8. THE INTRANSITIVE CLAUSE

The Intransitive Clause consists of an obligatory Predicate and optional Subject Tagmemes.

The verb of the Intransitive Clause has obligatory subject affixation only. The subject affix shows agreement with the Subject Tagmeme.

The subject affixes have not been listed in this paper as there are far too many of them varying with each verb class.

Intransitive verbs consist of such verbs as: to go, to walk, to sit, to lie, to be aloft, to be, etc.

TABLE 10
BI-DIMENSIONAL ARRAY FOR INTRANSITIVE CLAUSE

± Per.	± Subject	+ Pred.	± Per.
	Various NP	Intrans.	

# PERMUTATION RULE:

1. Subject can also follow the Predicate.

# Examples:

58) S:Co-ord. Poss. Appos. NP

Bape i yile nukunu-ka

Bape i yile nukunu-ka penintha-ka

Bape & father his-(focus) they(du.m.)-(focus)

Pr:IVP Per:(Loc.)

na-nintha-dha ngarra darrimun they go-they(du.m.)-t. to beach

'Bape and his father went to the beach.'

59) S:NP Pr:IVP

nekingime thurrini-dha-ngime

we(incl.pc.f.) we go(incl.)-t.-we(pc.f.)

Per:(Loc.)

ngarra Ngadinithi da

to Ngadinithi NC(place)

'We women went to Ngadinithi.'

- 60) S:Mod. NP Pr:IVP
  - i wirrirr ngala wurrini-dha

and wind big he go-t.

'...and a big wind came.'

61) Per:(Loc.) Pr:IVP

kanhi mere pirrangi-dha

here negative he stand-t.

'He didn't stand here.'

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- bere nguna-dha ngini ngarra office ngarra
  then I go(sg.)-t. aspect to office where
  ku pule thathpirr dim-ya
  NC(animal, European etc.) boss true he sit-(emphasis)
  'Then I went to the office where the big boss is.'
- 63) Pr:IVP

  mere ngurru-ø da ngatha

  negative I go(sg.)-t. yet

  'I'm not going yet!'
- 64) S:NP Pr:IVP

  kardu muthingka yibi-m-pup

  NC(human) old woman she-t.-die

  'The old lady died.'
- 65) Per:(Loc.) S:NP Pr:IVP
  kunginira nukunu di-m-e
  yesterday he he-t.-vomit
  'He vomited yesterday.'
- 66) S:Mod.NP Pr:IVP

  i ku bamam numi-ka wuda-ø-wal

  and NC(animal, European etc.) white one-(focus) he-t.-jump

  Per.(Instr.)

  warda kathu tharra nanthi parachute-te
  - then towards fast NC(thing) parachute-with '...and then one white man jumped out with a parachute.'
- 67) S:NP Pr:IVP Per:(Time)

  kardu bere matha ngadi-birlbirl-dha da

  NC(human) always I(sg.)-wake up-t. NC(time)

  thipinhi nhini Friday night-yu

  night that Friday night-(focus)

  'I kept on waking up that night, Friday night.'
- 68) S:Mod. Appos. NP

  nganki

  we(excl.pc.sb.) NC(human) child yet

  'We were still children.'

  Pr:IVP

  mamay da ngatha ngardi-dha

  we are(excl.pc.sb.)-t.

#### 9. THE INTRANSITIVE SOURCE CLAUSE

The Intransitive Source Clause is very similar to the Transitive Source Clause (Section 3), but lacks an Object. It consists of an obligatory Predicate and optional Subject and Source Tagmemes.

The verb of the Intransitive Source Clause has obligatory subject and source affixation. The subject affix shows agreement with the Subject Tagmeme and the source affix shows agreement with the Source Tagmeme.

The source affixation is derived by adding the prefix ma- to the Object A affixes, as shown in the examples.

Note: See Appendix for a complete list of Object A affixes. Intransitive Source verbs consist of such verbs as: to run, to jump, to get up, to fall, etc.

TABLE 11
BI-DIMENSIONAL ARRAY FOR INTRANSITIVE SOURCE CLAUSE

t Per.	± Subject	+Pred.	± Source	± Per.
	Various NP	Intrans. VP	Source P.	
			Poss.	
			Source P.	

#### PERMUTATION RULE:

1. Source can also precede the Predicate.

#### Examples:

- 69) PR:IVP
  - ngunu-ngam-nhi-ma-winhat I(sg.)-t.-you(sg.)-source-run'I ran from you.'
- 70) Pr:IVP

  ngudi-nhi-ma-wal-nu

  I(sg.)-you(sg.)-source-jump-t.

  'I'll jump down from you.'
- 71) Per:(Time) Pr:IVP

  nakurlnu pe-nganku-ma-wirnturt-nu-nintha

  after he-we(excl.)-source-get up-t.-we(du.m.)

  'He'll get up from us two men later.'

- 72) Pr:IVP
  buy-ø-ma-bat-nu
  I(sg.)-him-source-fall-t.
  'I'll fall from him.'
- 73) Pr:IVP

  ngunu-ngam-nu-ma-winhat

  I(sg.)-t.-ref.-source-run

  'I ran from myself.'

  (NOTE: Can also carry the meaning, 'I ran by myself.')

## 10. THE INTRANSITIVE BENEFACTIVE/GOAL CLAUSE

The Intransitive Benefactive/Goal Clause is similar to the Transitive Benefactive/Goal Clause (Section 4), but lacks an object. It consists of an obligatory Predicate and optional Subject and Benefactive or Goal Tagmemes (both cannot occur in the same clause).

The verb of the Intransitive Benefactive/Goal Clause has obligatory subject and optional benefactive/goal affixation. The subject affix shows agreement with the Subject Tagmeme and the benefactive/goal affix shows agreement with the Benefactive or Goal Tagmemes.

The benefactive/goal affixation is normally manifested in the verb when the object is human and is often absent for non-human objects (examples 75, 76 and 77). When it is used it is manifested by the Object B set of affixes.

Note: See Appendix for a complete list of Object B affixes.

Intransitive Benefactive/Goal verbs consist of such verbs as: to go, to descend, to turn around, to look for, to whistle, to call out, to wait for, etc.

TABLE 12
BI-DIMENSIONAL ARRAY FOR INTRANSITIVE BENEFACTIVE/GOAL CLAUSE

± Per.	± Subject	+ Pred.	± Ben./Goal	± Per.
	Various NP	Intrans.	Ben. P.	
			Poss.	
	l l		Ben. P.	
			Goal P.	
		-	Poss.	
			Goal P.	

#### PERMUTATION RULE:

1. Goal can also precede the Predicate.

Examples:

74) Pr:IVP

thurru-nga-nu kathu
you go(sg.)-me-t. towards
'You'll come to me.'

- 75) Goal:Goal P. Pr:IVP

  ku balli-ka mere ngirrangi-wat-tha

  NC (animal etc.) mud crab-(focus) negative we(excl.pl.)-go(hab.)-t.

  'We never went for mud crabs.'
- 76) S:Co-ord. NP

  ngay i kawu ngay-ka nguda-m-ngintha-thut

  I and mother's mother my-(focus) we (excl.)-t.-we(du.f.)-descend

  Goal:Goal P.

  ku ngalarnarn

  NC(animal etc.) fish(gen.)
- 77) S:NP Pr:IVP

  ngankungime ngarna-m-ka-rdi-ngime

  we(excl.pc.f.) we(excl.)-t.-NM-enter-we(pc.f.)

  Per:(Loc.) Goal:Goal P.

  ngarra dara ku balli-nu

  in mangroves NC(animal etc.) mud crab-for

  'We women went into the mangroves for mud crabs.'

'My Grandmother and I went down for fish.'

- 78) Pr:IVP

  ne-nga-birl-nu kathu

  you(sg.)-me-turn around-t. towards

  'You'll turn around to me (to face me).'
- 79) Per:(Loc.) Pr:IVP Goal:Goal P.

  ngarra window mi-m-na-yerr ngarrim Ninal

  at window I(sg.)-t.-him-look out aspect Ninal

  'I'm looking out the window at Ninal.'
- 80) Pr:IVP S:NP

  ngarri-m-nu-winh mange ngay

  I(sg.)-t.-ref.-whistle myself(idiom)

  'I whistled to myself.'

#### 11. SUMMARY

A close study of the clause types described in this paper will reveal a very close relationship between the verb with its affixations and the clause structure.

Table 13 summarises the verbs of this paper and shows clearly the inter-relationships of each clause type between the verb affixations and the clause structures.

#### Notes related to Table 13

- 1. The Clause type numbers listed down the left hand column correspond to the Section numbering throughout the paper.
- 2. The term 'Oblique Affixes' refers to Object A and Object B affixation. The term 'Oblique Prefixes' refers to Incorporated body parts and the source prefix ma-.
- 3. The cross reference columns show the agreement or relationship between the verbal affixation and the clause structure.
- 4. The position of the verb root has not been shown within the verb affixation columns, because it is irrelevant to this Table.

#### 12. CLAUSE MODES

Although this paper basically deals with the Declarative or Indicative Clauses, this section attempts to explain briefly, with examples, how these Declarative Clauses can be transformed into the following mode types.

- 1. Imperative
- 2. Subjunctive
- 3. WH- Interrogative
- 4. Yes/No Interrogative

## 12.1. THE IMPERATIVE CLAUSE

This clause only occurs in the future tense, second person. In transforming a Declarative Clause into an Imperative Clause only the Predicate is affected.

The positive future tense suffix -nu on the verb, and the negative future tense suffix -nukun are replaced by the imperative suffix  $-\phi$ , which then forms an Imperative Clause.

Examples:

81) O:Dem. Np Pr:TVP

mi kanhi thula-th-ø

NC(food) this you(sg.)-eat-imp.

'You eat this food!'

TABLE 13
THE RELATIONSHIP OF VERB AFFIXATION AND CLAUSE STRUCTURE

CLAUSE TYPE	VERB AFFIXATION					CLAUSE STRUCTURE			TRUCTURE				
ŧ	Subject Affixes	Oblique Affixes	Ob. Affixes cross reference	Oblique Prefixes	Ob. Prefix/Affix cross reference								
2	+ Subject	± Object A	Object	± IBP	Goal/Instrument	±	S	±	0	+	P	±	Goal/Instrument
3	+ Subject	+ Object A	(+) →	ma-	Source	±	S	+	0	+	P	±	Source
4	+ Subject	+ Object B	Ben./Goal	± IBP	Object	±	S	+	0	+	P	±	Ben./Goal
5	+ Subject	+ Object B	Ben.	+ ø (+) ma-	Source	±	S	+	0	+	P	±	Ben. ± Source
6	+ Subject	+ Object A	(±)	+ IBP	Object			±	0	+	P	±	Causative
7	+ Subject	+ Object A Object B	Indirect Object		19	±	S	+	0	+	P	±	10
8	+ Subject		100			±	S	П		+	P		
9	+ Subject	+ Object A	(+) →	ma-	Source	±	S			+	P	±	Source
10	+ Subject	± Object B	Ben./Goal			±	S			+	P	±	Ben./Goal

- 82) O:NP Pr:TVP
  lithpurr na-nga-yit-\$
  axe you(sg.)-me-hold-imp.
  'You hold the axe for me!'
- 83) Pr:IVP Per:(Loc.)
  thungi-nintha-wuy-ø ngathparr wangu
  you(du.m.)-go outside-imp. far way
  'You two boys go outside and far away!'
- 84) Pr:TVP

  ne-ni-ma-purl
  you(sg.)-ref.-hand-wash-imp.

  'You wash your hands!'

#### 12.2. THE SUBJUNCTIVE CLAUSE

This type of clause describes a mode that is a potential fact, translating into English expressions like 'might be..', 'could be..' and 'nearly..'.

In transforming a Declarative Clause into a Subjunctive Clause only the Predicate is affected. The Subjunctive future tense uses the suffix -nukun following the verb root, and the past tense uses the suffix -dha.

Examples:

- 85) Per:(Time) Pr:IVP

  nakurlnu ngurru-nukun

  after I go(sg.)-subjunc.

  'I might go later.'
- 86) Pr:IVP
  ba-na-bat-tha
  I(sg.)-ref.-fall-subjunc.
  'I nearly fell.'
- 87) O:Mod. Np Pr:TVP

  kardu ngala ku-nhi-bat-nukun

  NC(human) big he-you(sg.)-hit-subjunc.

  'The big man might hit you.'

#### 12.3. WH- INTERROGATIVE CLAUSE

This type of clause asks the questions: who?, where?, when?, what?, what for?, (why?), how?, and how many? (There are two interrogative words for 'what?').

For the WH- Interrogative Clause the interrogative word is normally put at the beginning of the clause, and the suffix clitic -yu attaches itself to the last word of the clause.

- 88) Interr. Pr:IVP S:NP
  minthire pa-ruy-nu nukunu-yu
  when he-arrive-t. he-interr.
  'When will he arrive?'
- 89) Interr. Pr:Di-Trans VP

  ngarra puma-m-ngarru-ø-ngintha

  what they(pl.)-t.-we(excl.)-say-we(du.f.)

  IO:NP

  ngankungintha-yu

  we(excl.du.f.)-interr.

  'What did they say about us?'
- 90) Interr. Pr:IVP Per:(Loc.)

  ngarra-re thurrini-dha kanhi-yu

  what-means you go(sg.)-t. here-interr.

  'How did you come here?'
- 91) Interr. O:NP Pr:TVP
  thangku numa piru ma-m-patha-yu
  what number bark he-t.-make-interr.
  'How many bark (paintings) did he make?'
- 92) Interr. Pr:IVP

  ngarra wangu pumpa-n-yu

  where way they go(pl.)-t.-interr.

  'Where are they going?'
- 93) Interr. Pr:TVP O:NP
  nangkal yi-nga-wurl kura patha-yu
  who he-t.-get water NC(water) good-interr.
  'Who got the fresh water?'
- 94) Interr. Pr:IVP Per:(Loc.)
  thangku-nu na-n-arri thim kanhi-yu
  what-for you(sg.)-t.-hide aspect here-interr.
  'Why are you hiding here?'
- 95) Interr. O:NP Pr:TVP
  thangku nanthi na-ngan-art-yu
  what NC(thing) you(sg.)-t.-get-interr.
  'What thing did you get?'

## 12.4. THE YES/NO INTERROGATIVE CLAUSE

This is also an interrogative clause, but one in which only the answer 'yes' or 'no' need be given.

The Yes/No Interrogative Clause also uses the suffix clitic -yu which attaches itself to the last word of the clause. Intonation also plays an important role in forming a Yes/No Interrogative Clause. The intonation pattern has a sharp rise and gradual fall.

# Examples:

- 96) Per:(Time) Pr:IVP

  marra tha-ngan-tuy-yu

  now you(sg.)-t.-arrive-interr.

  'Did you just arrive?'
- 97) IO:NP Pr:Di-Trans. VP O:Poss. NP
  Yunum tha-m-na-mut thamul ngay-yu
  Yunum you(sg.)-t.-him-give spear my-interr.
  'Did you give Yunum my spear?'
- 98) O:NP Pr:TVP

  ku menti-ka da-m-parl-yu

  NC(animal etc.) turtle-(focus) he-t.-spear-interr.

  'Did he spear the turtle?'

APPENDIX
INCORPORATED BODY PARTS

 Independent Form	Incorporated Form	Meaning		
kamarl	ngka	'face/eye'		
wulumu	lu	'forehead'		
kardirrak	kardarri	'eyebrow'		
the	уe	'ear'		
t h i m u	уi	'nose'		
thathpi	dhawi	'mouth/lips'		
themen	thanme	'tongue'		
dimu	d i	'tooth/teeth'		
thamurru	dhamurru	'side of face'		
pelpith	we	'head'		
pemarr	we	'hair'		
thamamay	dhamurru	'beard'		
thamarl	dhama	'neck'		
lamala	mala	'shoulder'		
nithi	be	'arm'		
mange	ma	'hand'		
marda	marda	'belly'		
marda yidi	marda	'chest'		
pangkin	darri	'back'		
ngurru	ngurru	'side'		
lumpu	ri	'buttocks'		
lawali	bu	'leg'		
pingkarl	wingka	'knee'		
me	me	'foot/feet'		
nginipunh	ø	'body'		

	Freeform Pronoun	Meaning	Object A	Object B
	ngay	sg.	ngi	nga
	ngankunintha	du. m.	nganku-nintha	ngarru-nintha
	ngankungintha	du. f.	nganku-ngintha	ngarru-ngintha
e e	nganku	du. sb.	nganku	ngarru
181	ngankuneme	pc. m.	nganku-neme	ngarru-neme
T PERSON exclusive	ngankungime	pc. f.	nganku-ngime	ngarru-ngime
RS	nganki	pc. sb. and pl.	ngan	ngarra
FI	neki	du.	nhe	nhe
นระ	nekineme	pc. m.	nhe-neme	nhe-neme
FI	nekingime	pc. f.	nhe-ngime	nhe-ngime
	nhinhi	sg.	nhi	mpa
NO	nankunintha	du. m.	nanku-nintha	narru-nintha
SECOND PERSON	nankungintha	du. f.	nanku-ngintha	narru-ngintha
PE	nanku	du. sb.	nanku	narru
ONO	nankuneme	pc. m.	nanku-neme	narru-neme
ECC	nankungime	pc. f.	nanku-ngime	narru-ngime
Ø	nanki	pc. sb. and pl.	nan	narra
	nukunu	sg. m.	ø	na
	nigunu	sg. f.	ø	nge
THIRD PERSON	penintha	du. m.	nku-nintha	rru-nintha
豆形	peningintha	du. f.	nku-ngintha	rru-ngintha
<u>н</u>	piguna	du. sb.	nku	rru
II N	peneme	pc. m.	nku-neme	rru-neme
Ë	peningime	pc. f.	nku-ngime	rru-ngime
	pigunu	pc. sb. and pl.	n	rra
	PERFECT TENSE (	ONLY		
	nukunu	sg. m.	ø	na
NO	nigunu	sg. f.	ø	nge
ERS	penintha	du. m.	punku-nintha	pirru-nintha
<u>.</u>	peningintha	du. f.	punku-ngintha	pirru-ngintha
THIRD PERSON	piguna	du. sb.	punku	pirru
TH	peneme	pc. m.	punku-neme	pirru-neme
	peningime	pc. f.	punku-ngime	pirru-ngime
	pigunu	pc. sb. and pl.	pun	pirra

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