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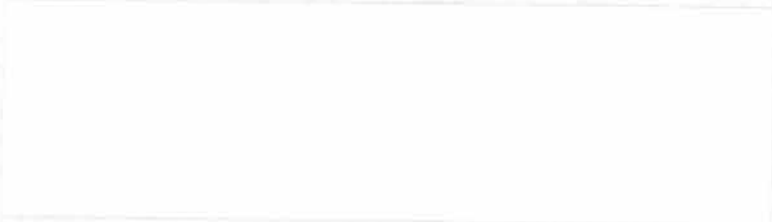
K.A. McElhanon

Bruce L. and Ruth Blowers



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EDITORIAL CORRESPONDENCE:

The Editor,
PACIFIC LINGUISTICS,
Department of Linguistics,
School of Pacific Studies,
The Australian National University,
Box 4, P.O.,
Canberra, A.C.T. 2600.
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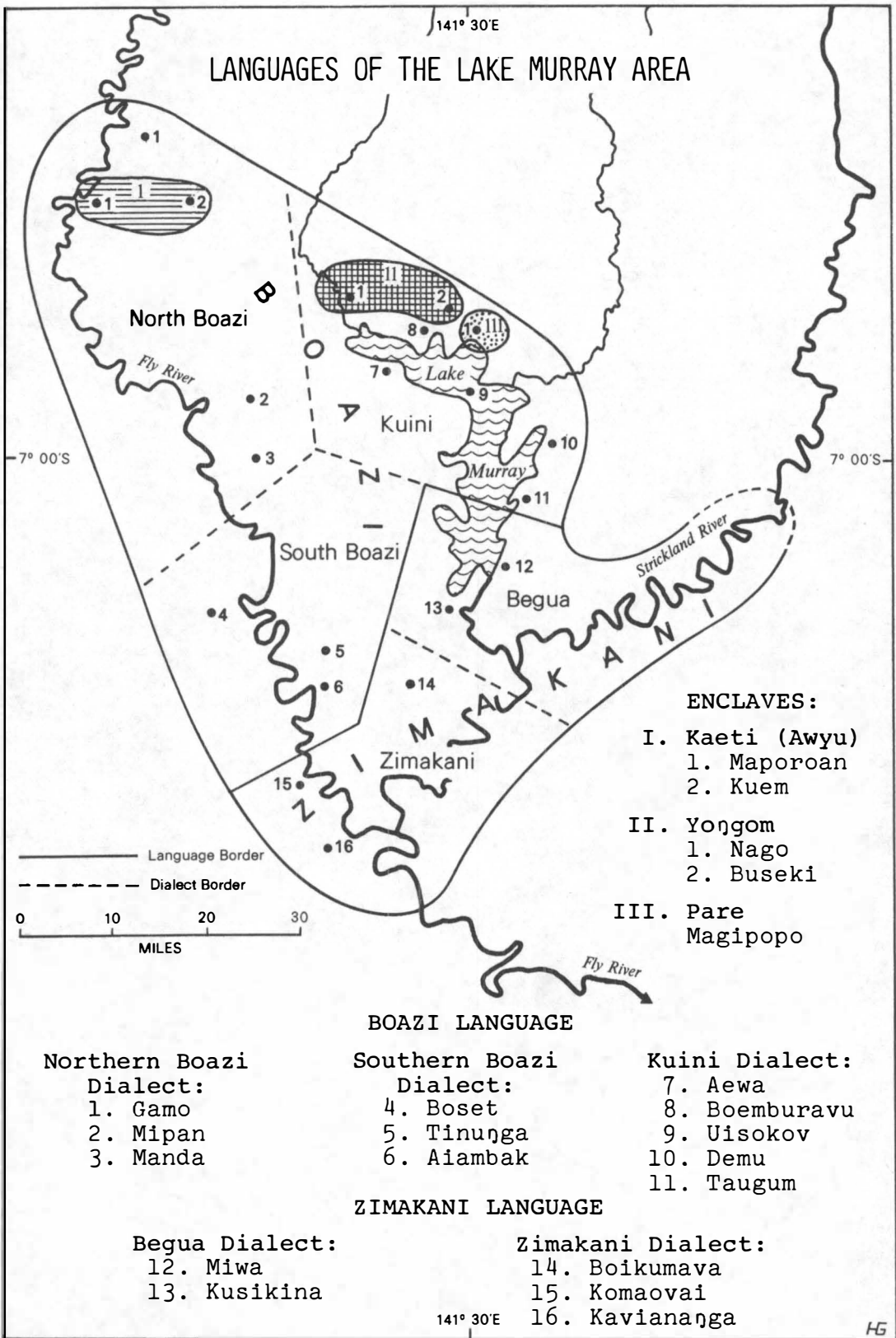
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DEPARTMENT OF HUMAN GEOGRAPHY, A.N.U.

THE LANGUAGES OF THE LAKE MURRAY AREA

C.L. VOORHOEVE

1. INTRODUCTION

1.1. The Lake Murray Area is the vast triangular stretch of swampy land bordered in the west by the Fly River, in the east by the Strickland River, and in the north by the higher and dryer grounds of the Yongom and Pare areas. In the centre of the triangle lies Lake Murray measuring about 35 miles from top to bottom, and from 3 to 5 miles from side to side. Its feeder rivers, the June, the Boi and the Kaim, all enter it from the north. In the south the Herbert River connects it with the Strickland River.

About 4000 people live in this area. Their villages are built on the low sand ridges that crop up between the innumerable swamps and lagoons. Of these people, 600 are newcomers: small groups of Kaeti, Yongom and Pare who have settled in the region in the recent past. The others have lived there from time immemorial.¹ They are organised into a number of tribes which all seem to have a dual organisation. Each tribe consists of exogamous moieties which are divided into a small number of totem groups.²

The two main languages in the area are Boazi and Zimakani. They constitute the easternmost subgroup of the Marind Stock, which stretches far to the south-west and west into West Irian. Boazi is spoken in three dialects: North Boazi, South Boazi, and Kuini. Zimakani is spoken in two dialects, Zimakani and Begua. The other languages, spoken by sundry groups are Kaeti, Yongom and Pare. A list of the tribes, the villages and the population figures is presented in the following chart:

Chart I

PEOPLE AND LANGUAGES OF THE LAKE MURRAY AREA

(The population figures have been taken from the Census 1968.)

TRIBE	VILLAGE	POPULATION FIGURES	LANGUAGE AND DIALECT
			<i>Boazi</i>
Bieki	Gamo	?	Northern dialect
Ingies	Mipan	217	" "
Sangizi	Manda	125	" "
Wamek	Boset	411	Southern dialect
Kameki	Tinunga	116	" "
	Aiambak	99	" "
Kuini	Boemburavu	112	Kuini
	Uisokov	272	"
	Demu	171	"
	Taugum	255	"
	Aewa	84	"

Total number of Boazi speakers: approximately 1900.

			<i>Zimakani</i>
Begua	Miwa	308	Begua
	Kusikina	153	"
Zimakani	Boikumava	202	Zimakani
	Kaviananga	321	"
	Komaovai	78	"

Total number of Zimakani-Begua speakers: 1462.

Kaeti	Kuem	} 200 appr.	Kaeti
	Maporoan		
Yongom	Nago	143	Yongom
	Buseki	184	"
Pare	Magipopo	67	Pare

Note: Nago has since moved to a new location and is now locally known as Kakutamangei.

The trade language in the Lake Murray area is Police Motu, but near the West Irian border the Indonesian language is generally understood and spoken. Amongst the younger generation, English is becoming more widespread as a second language since it is taught at the Government and Mission schools.

1.2. The first European to enter this part of New Guinea was Luigi d'Albertiz who ascended the Fly River for the first time in 1876, firing his rockets at the bewildered natives. From that time onwards the area had sporadic contacts with the outside world. In 1913 Massey Baker and Burrows discovered the lake, which they named after the Lieutenant-Governor, Hubert Murray, who himself visited it the year after.

The state of sporadic contacts lasted till about the beginning of the second world war, when the Unevangelized Fields Mission established a Mission Station at Kaviananga near Everill Junction. In 1947 they moved from there to their present headquarters at Pangoa in Lake Murray. About the same time the administration moved in and established a patrol post on the northern shore of the lake. Nevertheless Lake Murray remained a neglected part of the Western District till 1960 when a permanent government station was built on a new site and a start was made with the economic development of the area. Crocodile hunting was promoted, a start made with the planting of rubber, and the Lake Murray Co-operative Society was formed. There are at present three primary schools in the area: in the government station, on Pangoa, and in Boset.

In the border area west of the Fly River regular contacts with the outside world were established earlier than east of the Fly. The Dutch Roman Catholic Mission started operating in the region in the thirties working from their headquarters in Merauke. They established a Mission Station at Boset, and thereafter many children from the Boazi speaking area went to school in Merauke. After Dutch New Guinea became Irian Barat in 1962, the Dutch Roman Catholic Mission stayed on for a while but at last abandoned the Boset Mission Station. The station was later reopened by the Canadian Montfortan Mission, operating from Daru.

1.3. The earliest information on the languages around Lake Murray consists of short word lists in the *Papua Annual Reports* of 1916/17 (in Zimakani) and 1921/22 (in Zimakani and Boazi). More detailed information on the Boazi language became available through Boelaars' thesis (1950) which contains an abstract of notes on Boazi by the Dutch Missionary, P. Drabbe. Four years later (1954), Drabbe published these notes in the *Microbibliotheca Anthropos*.

The Unevangelized Fields Mission, working in Zimakani (Zimakani dialect), prepared translations of part of the New Testament (*Jesu'ba Woituwoituda*, 1956; *John'ba Lagitada Magata*, 1966). Capell (1962) gives a few notes on the Lake Murray languages, mentioning Zimakani, Kuni and Dea. His Kuni is the Kuini dialect of Boazi; a language named Dea does not exist in the area. Capell's examples show that Dea is to be equated with Boazi. The location of the languages as shown on his map (Map X, facing page 128) is incorrect.

The present author collected the materials for this report during a stay of three weeks in the Lake Murray area in March 1969.

2. PHONOLOGY

2.1. Boazi and Zimakani have very similar sound systems and it is therefore not necessary to present a complete survey of each of them. The sound system of the Boset dialect of Boazi will here be given in some detail. The sound systems of North Boazi, Kuini, Zimakani and Begua will then be discussed insofar as they differ from the Boset dialect.

2.2. Boset-Boazi (Southern Dialect)

This dialect has 18 consonant phonemes and 5, or perhaps 6, vowel phonemes.

The consonant phonemes are:

		Bilabial	Labio-dental	Alveo-dental	Velar	Back velar
Stops	vl.	p		t	k	q
	pren.	mb		nd	ng	nq
	vd.	b		d	g	-
Nasals		m		n		
Fricatives	vl.		f	s		
	vd.		v	z		y
Laterals				l		

Chart II, on page 5, shows the main allophones of the consonant phonemes as they occur in word-initial, word-medial and word-final position. A question mark indicates that in the collected data the phoneme has not been found in that position.

The vowel phonemes are:

i [i,ɪ]; e [ɛ̃]; ɛ [ɛ,æ]; u [u,ʊ]; o [o,ɔ,ö]; a [a,ä,æ].

NOTES:

The allophone [ö] of /o/ was found in the environment /d-v/ only: [dëvaiæk, dovaiak] 'moon'.

The phonemic status of ɛ is uncertain. Only a few examples of possibly phonemic ɛ were found. Further, /a/ tends to be raised to ä in certain environments and then seems to overlap the phonetic range of the suspected ɛ phoneme.

Chart II
BOAZI CONSONANTS AND THEIR MAIN ALLOPHONES

	p	t	k	q	b	d	g	mb	nd	ŋg	ŋq	m	n	f	s	v	z	ɣ	l
I	p	t	k	q	b	d	g	mb	nd	ŋg	ŋq	m	n	f, pf	s, ts	v	z, dz	ɣ, g	l
M	p	t	k	q	b	d	g	mb	nd	ŋg	ŋq	m	n	f	s	v	z	ɣ, g	l
F	p, p̥	t	k	q	?	?	g, k̥	?	nd	ŋg, ŋk̥		m	n	f	s	f̥v	ɕ, z	ɣ, ɣ̥	-

Unvoiced lax stops are indicated by a subscript _l: k_l, f_l, s_l, ɣ_l.

NOTES:

Final /p/ is sometimes unreleased.

The fricative phonemes /f/, /s/, and /z/ have in initial position two allophones: a fricative and an affricated allophone which alternate freely.

The opposition voiced-voiceless of stops and fricatives is in word-final position sometimes replaced by the opposition tense-lax, the voiceless phonemes becoming unvoiced/tense, the voiced phonemes becoming unvoiced/lax.

Backed velar consonants occur only preceding /a/ or /o/ (in initial and medial position) or following /a/ or /o/ (in final position). Within these restricted environments however, they contrast with non-backed velar consonants.

The velar fricative /ɣ/ seems always to be backed, irrespective of the environment.

2.3. The North-Boazi Dialect

A few data were collected from an informant from Manda. The sound system seems to be identical to that of South-Boazi. In this dialect /l/ also occurs word-finally and then has strong lateral friction.

2.4. The Kuini Dialect

The data, collected from an informant from Boemburavu show only sub-phonemic differences from the system outlined above. Inter-vocally, /g/ has two allophones: [g] and [ŋ]. There is more evidence for setting up *ɛ* as a separate phoneme than in Boset-Boazi.

2.5. Zimakani, Zimakani Dialect

The main difference is the absence of phonemic backed-velar stops. On the allophonic level backed-velar stops [q], [ŋq] do occur when followed by /a/ or /o/. Preceding /o/ the stop is always backed, preceding /a/ backed and non-backed allophones seem to alternate freely. /l/ has flapped and lateral allophones in word-medial position.

There are 6 vowel phonemes:

i [i,ɪ]	u [u,ʊ]
e [e,ɛ]	o [o,ɔ]
ɛ [ɛ]	a [ɑ,ʌ,æ]

Begua seems to have an identical sound system.

2.6. Consonant clusters do not occur, neither in Boazi nor in Zimakani; Boazi permits word-final consonants, but Zimakani does not permit them. In both languages sequences of up to three vowels have been noted.

3. GRAMMAR

Very little is known of the morphological and syntactical structure of these languages. Drabbe's *Notes* (1954) are the only source available and the fieldwork by the present writer did not go into enough detail to improve much on what has been published before. The writer therefore refrains from presenting any data till a more thorough study in these languages has been made. Only a few general remarks may be made here: both Boazi and Zimakani seem to have a system of three noun classes, involving concord with pronouns, demonstratives, and adjectives. In Boazi there is a category of nouns which has plural forms marked by a pluralising suffix; in Zimakani and in the Kuini dialect of Boazi there is a category of nouns in which the singular nouns are marked by a singularising suffix. Verb forms may contain one or more prefixes and/or suffixes. Thus, a verb may contain prefixes marking completive aspect - subject - object (in this order) and suffixes marking plural number of subject - durative aspect - tense (in this order). Some verbs have suppletive roots, depending on the plurality of the subject or object, or depending on the tense of the verb.

4. COMPARATIVE WORD-LIST OF BOAZI (Boset and Kuini Dialects) AND
ZIMAKANI (Zimakani and Begua Dialects), IN PHONETIC NOTATION

	South Boazi	Kuini	Zimakani	Begua
<i>afraid</i>	ma _i	-	mo _i	-
<i>all</i>	tandenge	-	-	utumatu ba _u gu
<i>angry</i> ¹	nafe	ɣaɣa	poŋgoa	poŋgoa
<i>arm</i>	pingi	pingi	ŋgu	ŋgu
<i>armpit</i>	fiag	baya	-	-
<i>arrow</i> ²	sangava	sangava	tsangava	sangava
<i>arrow</i> ³	ngesu	ngasu	ngasu	ngasu
<i>ashes</i>	po _k ak	pa _k ak	pu	fu
<i>axe, stone</i>	eto bova _i	-	-	bovasi
<i>back (body)</i>	zita	tsita	ko _b e	zita
<i>back of knee</i>	-	-	lava	lavava
<i>bad</i>	sɣa _ɣ a	sɣa _i ma	babaka	babaka babak _u babake } ⁴
<i>bag, plaited</i>	ava	ava	ava	ava
<i>bamboo</i>	pfai _f	fa _i f	-	-
<i>banana</i>	napət	nəpət	napətə	napətə
<i>bark</i>	gə _i na ŋgusu	-	təe ŋgusumi	ŋgusumi
<i>beard</i>	mai _t u	mai _t a	-	-
<i>belly</i>	ɣandam	-	gusu	guse
<i>betelnut</i>	singi	singi	singi	singi
<i>big</i>	kandamba	kanbo _ɣ obe	ndewi	kapaka
<i>bird</i>	pipisi	pipisiem } ⁵ pipisi	io _v oio _v o	ko _ɣ agiemu ⁶
<i>black</i>	kekes	kəkəs	po _i nu	po _i nu
<i>blood</i>	ko _u k	ko _u k	ko _u ku	ko _u ku
<i>bone</i>	bazə _g	baza _k	bɛ:ki	bɛ:ki
<i>bow</i>	pfai _i	fa _i f	pfai _i fa	pfai _i fa
<i>bowstring</i>	-	zava	-	zave
<i>boy</i>	mapenaka } ⁵ mapenaka _i s	ɔpanaka } ⁵ ɔpanaka _i s	ŋgoieme } ⁵ ŋgoi	ŋgoieme } ⁵ ŋgo _i
<i>branch</i>	tatəŋg	tanga	tɛtɛ:ŋgi	uaye
<i>breadfruit</i>	ɣazua	ba _i ək	ɣazua	-
<i>breast</i>	tötö	tětě	tětě	tětě

¹Boa: P. genafə: P. is angry; P. note gendonafə: P. is angry with me.
Zim/Beg: poŋgoanda: he is angry.

²arrow with wooden point. ³arrow with bamboo blade.

⁴bad, of things, female beings, male beings respectively.

⁵singular, plural respectively. ⁶singular.

	South Boazi	Kuini	Zimakani	Begua
<i>brother</i> ¹	ata	ata	eza _i eza _i pik _i a } ²	ezae } ² ezaeza }
<i>brother</i> ³	ati	ati	ɔmbeeki	ɔmbieki
<i>bush</i>	deg	deg	lɔsɔkɔ	lɔsɔkɔ
<i>buttocks</i>	ɣaɣɔma	ɔɣɔm	fɔgi	kumi
<i>calf of leg</i>	botovaka	bam	labuk _i eme	labuki ⁴
<i>cassowary</i>	kɔus	kɔus	kau	kau
<i>charcoal</i>	tetek	tekovɔt	ma	ma
<i>chest</i>	aɣa	savim	savi	savi
<i>cloud</i>	ean papaya	ozɔs	ka _i a saka	ka _i a saka
<i>coconut</i>	piwi	ɣaŋgat	ɣaŋgata	-
<i>cold (water)</i>	vatap	ɣatap	pumbu tanda	bumbu tanda
<i>come</i>	av	av	-	-
<i>crocodile</i>	aɣiam	aɣa _i a	lawazu	-
<i>crooked</i>	-	kafigiap	kafitanda	kafita
<i>cut tree</i>	-	-	ʃava	lava
<i>day</i>	taveat	paveat	-	-
<i>deep</i>	igiam	-	lounu	-
<i>descend</i>	vis	vis	-	-
<i>different</i>	vinivinimba	vini	-	-
<i>dog</i>	gaɣ	ŋgevas	ŋgaɣɔ	gaɣɔ
<i>dry</i>	-	kap	pazi	pazɛ
<i>ear</i>	giæ	kea	gia	zia
<i>earth, ground</i>	mangai	mangai	mange _i	mange _i
<i>eat</i>	log	log	zia	-
<i>egg</i>	gava	ŋgava	bamɔkɔ	bamɔkɔ
<i>elbow</i>	kafikafi	nasis	ka _f ɔ _i ka _f ɔ _i	ka _f ɔ _i ka _f ɔ _i
<i>evening</i>	kagus	-	kagi	kagi
<i>excrements</i>	nagi	nagi, gapa	-	nagi
<i>eye</i>	bɔ _i	bɔ _i	bɔ _i mo _k ɔ	bɔe
<i>face</i>	bugug	bugug	-	-
<i>far away</i>	-	ɣamaɣapɛ	avunava	-
<i>fat, grease</i>	ɛnaɣ	ɛna _k	ɛnaya	ɛnaya
<i>father</i>	tat, ve ⁵	tat, eve ⁵	ŋgai _i ʃa ⁶	ŋgai _i la ⁶
<i>feather</i>	ka _v a _i	ka _v u _i	-	-

¹elder brother; Boa, Kui: *my elder brother*.

²singular, plural respectively.

³younger brother; Boa, Kui: *my younger brother*.

⁴plural.

⁵*my/our father, and his/their father respectively*. ⁶*my father*.

	South Boazi	Kuini	Zimakani	Begua
<i>fence</i>	uta	uta	uta	uta
<i>few</i>	ɣapeləv	-	kɔakɔape	kɔakɔape
<i>finger</i>	-	kɔkɔsɔv	-	-
<i>fire, tree</i>	geinam	geina	tae	tae
<i>fish</i>	seva	zɔngajam } ¹ zɔnga }	dzɔngaeme } ¹ dzɔnga }	zɔngaeme } ¹ zɔnga }
<i>fly (insect)</i>	ɣavayav	ɣavayajam } ¹ ɣavayə }	ngamboeme } ¹ ngambo }	ngamboeme } ¹ ngambo }
<i>flying fox</i>	-	ngɔbɔ	-	-
<i>fog</i>	kaifa kaifa	kaifa kaifa	k ^x ɛifa k ^x ɛifa	giefi
<i>forehead</i>	negezapa	kawa pap	langa	langa
<i>fruit</i>	geina nanga	tae nanga	tai mɔkɔ	tae mɔkɔ
<i>garden</i>	kae	kae	ɣaveka	ɣaveaka
<i>girl</i>	basinaka } ² basinakais }	mbasnakam } ² mbasnakais }	atɛemo kase } ³ ato kaise }	atɛiemɔ kase } ³ ato kaise }
<i>give</i>	etawam	etɔam	tawa	tawa
<i>good</i>	mboma	boma	mboma	mbambaime
<i>hair of head</i>	izimu	izum	gigifi	kigifi
<i>body hair</i>	kasu	kasu	anu	anu
<i>hand, foot</i>	zenda	zenda	zenda	zenda
<i>he</i>	ndene	ndene	ɛgiæ	ezie
<i>head</i>	kawa	kawa	gi	gi
<i>heart</i>	mbani	mbɔni	bune	bune
<i>heavy</i>	-	viniv	zinimu	zinimu
<i>here</i>	ngane	nganek	-	-
<i>hill</i>	-	ewaeve	mangɛi mɔkɔta	mangɛi mɔkɔta
<i>his</i>	tege, tego, } ⁴ teya }	tege, tegu, } ⁴ teya }	ɛɣiemba	ɛɣiemba
<i>hornbill</i>	-	tɛtɛfo	-	-
<i>hot</i>	tatas	tatas	tɔtɔsi ⁵ tetepe ⁶	tetepe ⁷
<i>house</i>	ven	ve, koev	fa	fa
<i>be hungry</i>	-	ifi vi-	lou kami	lou kami
<i>I</i>	no	no	nɔkɔ	nɔkɔ
<i>inside, under</i>	masi	mɔka	mɔkɔte	mɔkɔte
<i>jaw</i>	ete	-	tamiki	tamiki
<i>knee</i>	katuk	manazap	kakusi	gamigi

¹singular and plural respectively. ²singular, plural respectively.

³young woman/young women.

⁴with nouns of masculine, feminine and neuter gender respectively.

⁵of water. ⁶of the day. ⁷of water, day, sun.

	South Boazi	Kuini	Zimakani	Begua
<i>kunai grass</i>	wasangai	puti	sɛsɛka	-
<i>lagoon, lake</i>	keuan	meam	kibana	kibana
<i>language</i>	.manga	mangat	mangata	-
<i>leaf</i>	ɛsaɔɔ	ɛsaɔɔ	ɛsaɔɔ	ɛsaɔɔ
<i>leech</i>	-	kaɣajam } ¹ kaɣa }	nangoiɛme } ¹ nangoi }	-
<i>leg</i>	wayajap	zenda	-	-
<i>light</i> (<i>weight</i>)	-	taɔ	kaenu	ka:nu
<i>lime</i>	gufæ	gufa	gɔfɛ	-
<i>lip</i>	toɣ	toɣ	ta:gu	ta:gu
<i>long</i>	-	səkɛɣapɛ	ovaiɛnu } ² ovaiɛne }	sakinu kapaka
<i>louse</i>	-	uɛg	-	numungi
<i>lungs</i>	faf	faf	tatafi	tatafe
<i>man, husband</i>	aɛganea	aɛganeam } ¹ aɛgana }	aɛganɛme } ¹ aɛgana }	aɛganɛ:me } ¹ aɛgana }
<i>man</i>	matɔksae } ¹ matɔks }	-	laɣɛme } ¹ laɣ }	laɣɛme } ¹ laɣ }
<i>old man</i>	daɣa ɣapɛ } ¹ daɣ mbakik }	laɣa ɣapɛ	laɣɛme } ¹ kapaka, } laɣ mbaiki }	laɣɛme kapaka } ¹ laɣ mbaiki }
<i>many</i>	maimba	maimba	sangazu	-
<i>meat</i>	savaka	sɛvaɔa	-	savaka
<i>men's part</i> <i>of house</i>	-	-	gia fa	-
<i>moon</i>	dovajak, ɣavæk	lɛveaɔ	kaɣa pave	kaɣa pave
<i>morning</i>	ɣanaɣanus	ɔgɔnaɛnis	ɣasuɣasunu } ³ pɔitapɔitanu }	ɣasuɣasunu
<i>mosquito</i>	nangat	nangatam } ¹ nangat }	nangaitiɛme } ¹ nangaiti }	nangaitiɛme } ¹ nangaiti }
<i>mouth</i>	manganga	manganga	tagu mɔkɔte ⁴	-
<i>mother</i>	ne } ⁵ vo }	evũ ⁶	nea } ⁵ evupuka }	mɔ
<i>mud</i>	suapaɔa	ɣɔ	ɣɔɣɔ	ɣɔɣɔ
<i>my</i>	noge, nogo, } ⁷ noɣa }	noge, nogu, } ⁷ noɣa }	nɔmba	nɔmba

¹ singular, plural respectively.

² with nouns of feminine, masculine gender respectively.

³ offered as synonyms by informant. ⁴ inside of mouth.

⁵ my mother, your/his mother respectively. ⁶ my mother.

⁷ with nouns of masculine, feminine, and neuter gender respectively.

	South Boazi	Kuini	Zimakani	Begua
<i>nail</i>	dakumuk	ḡanděs	siŋgi	siŋgi
<i>name</i>	iz	iz	iza	-
<i>nasal mucus</i>	-	kɔpɔḡa	-	-
<i>navel</i>	duku	dukum	lukumi	vɔsa
<i>navel of coconut</i> ¹	manggat			
<i>near</i>	-	-	avuka	-
<i>neck, nape</i>	ḡɔnæ	ḡɔna	ḡɔnɛki	mɔŋgɔ ²
<i>netbag</i>	-	atayě	ataya	ŋguæ
<i>new (of house)</i>	ḡandi	ndakinaḡ	ŋgaimeeki	-
<i>night</i>	děvě	loḡa	pɔita	pɔita
<i>nose</i>	kěso	kěso	kisi	kisi
<i>nostril</i>	kěŋḡa	kěsoŋḡa } ³ ndoziŋḡa }	-	ḡɔpaḡauvaě ⁴
<i>not, nothing</i>	-	-	naita	nava
<i>old (of house)</i>	ŋḡauanagi	ḡauŋagě	abeeki	-
<i>on top (of house)</i>	(ve) mu:m	(vě) mumat	(fa) mumeta	(fa) mumeta
<i>one</i>	kɔapɔ	kɔpɔ	kɔapɔma	kɔapɔma
<i>our</i> ⁵	nige, nigo, } ⁵ niya }	nige, nigu, } ⁵ niya }	uayamba	uayamba
<i>palm of hand</i>	-	zenda mɔḡɔ	dzenda mɔḡɔ	-
<i>path, track</i>	nakya	naḡɔya	ɔvaia	ɔvaia
<i>penis</i>	mběa	mbea	-	-
<i>people</i>	-	ɛaɔyam	-	ŋgaě
<i>pig</i>	basik	basik	domɔ	domɔ
<i>pig (boar)</i>	basi bia	-	-	-
<i>pig (sow)</i>	basi evoyapuk	-	-	-
<i>put down</i>	-	-	-	kiava
<i>quick</i>	-	naḡamas	-	-
<i>rain</i>	yaě	yaia	afuafu	afuafu
<i>rainbow</i>	-	-	vikiene	-
<i>rat</i>	-	mambut	-	-

¹ small depression in the top of the coconut where the stem joins the fruit.

² Boa: mɔŋgɔ = part of the shaft of paddle just above the blade.

³ offered as synonyms by the informant.

⁴ perhaps 'mucus-passage' (see *nasal mucus*).

⁵ with nouns of masculine, feminine, and neuter gender respectively.

	South Boazi	Kuini	Zimakani	Begua
rattan	tup	baning	baninga	k ^h andiki ¹
raw	ɣandi	-	lipɔki	lipɔki
red	bangas	ɣakuk	kakɛinu	kakɔinu
rib	-	sanga	-	-
ripe	ɣatə	ɣata	kateno	k ^h atena
river	ea:mba	kea	ɣae	ɣae
root	ŋgomo	tai lu	limi tunda, } ² kikimi	sinepi
rotten (wood)	pos	paɣ ^x ə paɣ ^x ə	gaguvu	gaguvu
run (verb)	-	-	laju	-
sago	doɣ	doɣ, bai ^h ta	loɣ	loɣ
sago grub	-	ama	-	-
sago swamp	doɣ ɣayai	-	-	-
sand	ndivind	ndivind	apundeiyi	apundeizi
scar	vaiətɛ	ŋgamave	e:	e:
shallow	ɛae:v	-	-	-
she	ndunu	ndunu	uaya	uaya
shell of coconut	voe	-	-	-
to see	-	-	teva	-
shin-bone	bazae:g	bazag	kambagi	k ^h ambagi
short	duvisigja	-	tɔkɔnu, } ³ tukunu	tɔkɔnu kasu
shoulder	ŋganga	ŋganga	ɣambafu	kambafo
shrimp	daka	-	-	-
be sick	eaŋgɔnɛ	iaŋɔni	ŋgɔsa	ŋgɔsa
sister, elder	-	ana ⁴	ezaɪ	ezae
sister, younger	-	ɔtam, } ⁵ kapulav	ɔmbeeku	ɔmbieku
to sit	-	bɔm	bevi	bevi
skin	ŋgusum, tæg ⁶	ŋgusəm	ŋgusumi	ŋgusumi
sky, day	ea:n	ɣaja	-	-
sleep	-	təna	-	-
slow	-	aɪav	-	-
small (of house)	ɣapelava	kapenavagasi	kakabieme	kase
smoke	ɣajfa	ɣajfa, əku ⁷	ɣəjfa	ɣajfa

¹ liana. ² big, small roots respectively.

³ with nouns of masculine, feminine gender respectively.

⁴ my sister (man speaking). ⁵ offered as synonyms by the informant.

⁶ skin of fruit. ⁷ offered as synonyms by the informant.

	South Boazi	Kuini	Zimakani	Bɛgua
<i>snake</i>	oaza	oazeɣam	-	sazia
<i>a sore</i>	-	-	ŋgava	ŋgava
<i>speak</i>	-	-	kaɿ gi-	-
<i>spittle</i>	kasě	kasě	kefɛŋge	kefɛŋge
<i>stand</i>	-	tænd	teni	tene
<i>star</i>	duku	ndĩku	dikĩ	duku
<i>stem of tree</i>	-	taj zapa	-	-
<i>stomach</i>	-	ěmũ	-	-
<i>stone</i>	mběnga	-	gabaso	kei, kee
<i>straight</i>	-	ndefeamba	tiovo	tiovo
<i>string, rope</i>	oɕ	gumbang	ŋgavama ¹	ŋgavami ¹
<i>sugar cane</i>	Pfimaɕ	fimaɕ	fimeɕa	fimaɕa
<i>sun</i>	kawe	kaɰa	kaɿa	kaɿa
<i>sweat</i>	-	tata	-	-
<i>tail (of dog)</i>	oɕo	ɕɕo	zivusi	sivuse
<i>tall, high</i>	sakeaɣape	-	-	-
<i>take</i>	-	-	ɿuba	-
<i>taro</i>	ɕɕkia	ɕɕkea	ɕɕkia	ɕɕkia
<i>tears</i>	-	evev	-	-
<i>that (close by)</i>	-	nděy	ndagu	ndagu
<i>that (further away)</i>	-	-	matagu	-
<i>that (far away)</i>	-	-	maitagu	-
<i>their</i>	tige, togo, } ² tiɿa	-	ɿaɣazamba	-
<i>there</i>	ŋgene	ndoyko	matagu, maitagu	matagu
<i>they</i>	ndini	ndini	ɿaɿa	ɿaɿa
<i>thigh</i>	uayajia zapa ³	-	bɔfo	bɔfo
<i>this</i>	ŋgane, ŋgene, } ⁴ ngunu	-	magu, meɣu, } ⁴ mɔa:gu	-
<i>these</i>	ŋgini	-	mieɣu, magu ⁵	-
<i>thorn</i>	fakia	fakea	-	-
<i>three</i>	misika	miška	-	-
<i>throat</i>	uanɛf	naɣ	-	li:
<i>throw away</i>	-	gi	wayi	-

¹bark string. ²with nouns of masculine, feminine, and neuter gender respectively. ³see 'stem' and 'leg'. ⁴neuter, masculine, feminine gender. ⁵masculine/feminine, neuter gender.

	South Boazi	Kuini	Zimakani	Begua
<i>thumb</i>	-	-	-	gevea
<i>thunder</i>	-	-	nda:nd	-
<i>tinea</i>	-	kivim	-	-
<i>today</i>	ngaigu	-	-	-
<i>tomorrow</i>	yasu	-	kausa	-
<i>tongue</i>	nasæ:me	sas	naseme	neseme
<i>tooth</i>	pakas	kaia	kama	k ^h ama
<i>tree</i>	gëinam	tae, tai	tae	tae
<i>two</i>	menes	mënas	nimapa	nimapa
<i>urine</i>	konɔ	ngaiia	-	ngaiia
<i>vein</i>	-	kiniḱ	sinepi	-
<i>water</i>	aɔḱ	ɔɔḱa	neia	neia
<i>we</i>	ni	-	niki	niki
<i>wet</i>	-	sɔsɔ	langɔsi	langɔsi
<i>what</i>	-	iaḱa	eta	-
<i>white</i>	papaya	papaya	payanu	payanu
<i>who</i>	giakanem, } ¹ giakanum, } giakanim }	iaxa zoqam	etangaia	etangaia
<i>wife (my-)</i>	naias	neas	-	-
<i>wind</i>	kamai	kamui	buamba	buamba
<i>wing</i>	taf	taf	ḱavu	ḱavu
<i>woman</i>	matɔḱɔseva, } ² matɔḱɔsakaɪs }	sevam, } ² sakaɪs }	atɔɛmɔ } ² atɔ }	atɔiɛmɔ } ² atɔ }
<i>old woman</i>	gai puka, } ² gai paka }	ngei puka	ngama puka, } ² ngai mbaiki }	ngai puka, } ² ngai paka }
<i>wound</i>	ngamav	ngamav	-	-
<i>yellow, green</i>	ḱaḱavu	ḱagius	mbɔḱɔ	mbɔḱɔ
<i>you (sg.)</i>	yo	yo	yoḱɔ	yoḱɔ
<i>you (pl.)</i>	zo	zo	zoḱɔ	zoḱɔ
<i>your (pl.)</i>	zoge, zogo, } ³ zoḱa }	zoge, zogu, } ³ zoḱa }	zomba	zomba
<i>your (sg.)</i>	yoḱe, yoḱo, } ³ yoḱa }	yoḱe, yoḱu, } ³ yoḱa }	ɔmba	yoḱmba

¹singular male, female; plural. ²singular, plural respectively.

³masculine, feminine and neuter gender.

N O T E S

1. The term is not quite appropriate, because the natives of Lake Murray are quite aware of their ancient history. One Zimakani informant showed this by telling the following story which also shows how contact with the Mission has fruitfully widened their historical perspective. The story, told in Police Motu, runs as follows:

'Inai luma bada herea dia haginia. Wad'idia herewa: "hari! ladan' ita hatoa, ita be tau badadia bona itana ruma ataiia momokani dore ita haginia!" Idia haginia luma 'nai negana, guba karikari dia kamokamo. Wadan'inai God ia badu sisina idia dekena. Wadan idiena luma idia haginia bona God ia nek' idia: "inai gabu ibonai idia mai!" Wadan idia herew "ai be Asáki, ai be Kwíma, ai be Laviúmbu, ai be Kómaovài, ai be Rekmáre, o..ai be Bégua o ai be Kufni. Bona ai be Dzimakani o Kaméki o Wamuéki, Ingiési, Sangfizi", inai bamona idia hatoa, wad'idia mai. Sene hanaia gabuna ia noho iniseni. Idia hereva inai tano ladana idia hatoa 'Gusendémo'. Iniseni ia noho. Iniseni dia mai negana be..gunaguna be taunima dia mase las. Waden iniseni mase dia dawaria. Guna be dia no. Gado tamona. Bégua, Kuni, Dzimakani, inai be gado tamona sibona. Waden dia noho inai bamona, idia laloo be "ah! daka badina inai gado tamona ita noho bona gado tamona ita herew bona gabu tamona ita haboa be! Egeregere las! Namona be aida taudia, sedira gado ita giroa. Ita giroagiroa be, bona gado ta ita herew. Bona ladana ta ita abia". Wadan inai negana, idia noho, inai gwarume bodaga gauna ia noho, wadaen idia ereva "piképiké" - wadan ina be Tinunga be Kuni; Kuni gado idia abia, Wada, idia hereva be "pikiébo", ine be Dzimakani bona Bégua...

In free English translation:

'They built this huge house. They said: "Now! Let us give names (to our tribes); we are big people and are going to build a really high house". And then they built the house, it nearly touched the clouds. But then God became a little angry with them. And when they had built the house He drove them out: "They all must come to this spot (i.e. Lake Murray)" (He said). And they said: "We are Asaki, and we Kwima, and we Laviumbu, we Komaovai, we the Lake Murray (people)"... or, "We are the

Begua, we are the Kuini. And we are the Zimakani, the Kameki, the Wamueki, the Ingiesi, the Sangizi". Thus they mentioned their names and then they came (here). The location where our ancestors went is here. People say, that they called this place 'Gusendemo'. There they lived. At the time they came here they could die. Before, they just lived. They had one language. But when they were living thus (at Lake Murray), they thought: "Hey, why do we have but one language, and live together on the same spot? It's not as it should be! It would be better if some of us changed their language. Let's change it and let us speak different languages. Let us give different names (to the things)". Well, when they were doing this, there was a piece of rotten fish, and they called it pikepike - those were the Tinunga people, the Kuini. They adopted the Kuini language. Then the others called it pikiebo - they were the Zimakani and the Begua...

(Then it is told how these groups started to make war amongst themselves and how they separated.)

2. Details of the dual organisation the author obtained from his Zimakani, Sangizi and Wamek informants. They gave the following information:

TRIBE	MOIETY	TOTEMIC GROUP
Zimakani	Mogava	Domonda pig
		Iasekui crocodile
		Kisakui dark crocodile
		γikui dark coloured pig
	Kaguakui	Baipaya baramundi
		Neapaya bad water
		Suevi fish species
		γamikui turtle species

The totem groups are called kagua tiata 'canoe'; the expression kagua tiata koapoma 'of one canoe' means 'belonging to the same totemic group'.

A cultural parallel is found in the Gogodala area where the totemic subgroups are called gawa 'canoe'. In the Asmat something similar is found: ci cowak apom canoe one we-sit means 'we belong to the same group'.

TRIBE	MOIETY	TOTEMIC GROUP
Sangizi	Mugav	Gasukuin kind of fish
		Baskuin pig
		γikuin crocodile

(continued)

TRIBE	MOIETY	TOTEMIC GROUP	
Sanggizi	Kaukuin	Baipay	<i>baramundi</i>
		Ngeyakuin	<i>marsupial</i>
.			
Wamek	Mogav	Koula	<i>cassowary</i>
		Basikuin	<i>pig</i>
		γikuin	<i>crocodile</i>
	Koukuin	Mbaipay	<i>baramundi</i>
		γamikuin	<i>turtle species</i>
		γoskuin	<i>fish species</i>

There is a reciprocal marriage relationship between Mogav and Koukuin. However, also marriages between γikuin and Koula or Basikuin are possible. Koula and Basikuin are "brother and sister": cassowary and pig are both land animals eating the same kind of food. Therefore they cannot marry. γikuin, although classified as Mogav, is a water animal and belongs to the same category as turtles and fish.

3. Drabbe (1954) gives the following list of groups and villages:

Biak	- no fixed location
Inggias	- Gambamit
Sanggizi	- Bovkaka
Wamek	- Vaoset (=Boset)
Kowmek	- Tunungg (=Tinunga)
Kuni	- Baiawis, Ndimu, Maelavuan
Mbāgu (Bēgua)	- Mbavu, Malava, Miwa, Fem
Zimakani	- Terarom, Kavenangga, Komove (=Komaovai)
Gizam	- no fixed location

The group Gizam has disappeared. Maelavuam is present-day Taugum. The people of Mbavu and Malava have joined Miwa. Terarom was situated on the Fly River opposite Suki Creek. The people of this village have since returned and live at Kaviananga.

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SELEPET VERB MORPHOLOGY

K.A. McELHANON

0. Introduction
1. Independent Verb Periphery
2. Dependent Verb Periphery
3. Conclusion

0. INTRODUCTION

In a recent article, Kenneth L. Pike has demonstrated the value of using matrix theory as "a tool for gaining insight into morphemic patterns of great complexity" (1963:1). Morphemes, which in the initial analysis were simply listed and memorised as complex units, were later shown to have significant internal patterning. This patterning was graphically displayed in matrices which indicated the formatives, the vectors and the categories. The formatives are phonological particles filling the cells of the matrix. The vectors are contrastive rows or columns in the matrix (e.g., columns indicating singular, dual and plural number). The categories are the meanings of emic vectors. The formative is relevant to phonology, the vector to grammar, and the category to semantics; the total being a form-meaning composite.

In an early treatment of Selepet verb morphology the writer concluded that the morphemes were of such complexity that they should be simply listed as portmanteau morphemes indicating person, number and tense and memorised as composites (McElhanon 1967a:21).¹ A list of data relevant to this paper is presented below with the verb root ari 'to go'.² The symbol â represents [ɔ].

§1 remote past tense (rpt) 'I went a long time ago' etc.

	S	D	P
1st person	ari-wan	ari-wit	ari-win
2nd person	ari-on	ari-owot	ari-wi
3rd person	ari-op	ari-owot	ari-wi

The rpt is made habitative by the occurrence of -mini preceding the above suffixes: ari-mini-wan 'I used to go' etc.

§2 immediate past tense (ipt) 'I recently went' etc.

	S	D	P
1st person	ari-an	ari-ait	ari-ain
		-it	-in
2nd person	ari-at	ari-awot	ari-ai
3rd person	ari-ap	ari-awot	ari-ai

The ipt is made habitative or prohibitive by the occurrence of -m preceding the above suffixes: ari-m-ap 'He always goes' or 'He should not go'.

§3 inceptive future tense (icft) 'I am about to go' etc.

	S	D	P
1st person	ari-woman	ari-româit	ari-nomâin
2nd person	ari-womat	ari-româiwot	ari-nomâi
		-romawot	-nomai
3rd person	ari-womap	ari-româiwot	ari-nomâi
		-romawot	-nomai

§4 delayed future tense (dft) 'I will soon go' etc.

	S	D	P
1st person	ari-womosan	ari-romosait	ari-nomosain
		-romosit	-nomosin
2nd person	ari-womosat	ari-romosawot	ari-nomosai
3rd person	ari-womosap	ari-romosawot	ari-nomosai

§5 immediate future tense (ift) 'I will go, you will go, you must go' etc.

	S	D	P
1st person	ari-wom	ari-rom	ari-nom
2nd person	ari-wuat	ari-romawot	ari-nomai
3rd person	ari-wuap	ari-romawot	ari-nomai

§6 remote future tense (rft) 'I will go in the distant future' etc.

	S	D	P
1st person	ari-wiom	ari-wioit	ari-wioin
		-wieit	-wiein
2nd person	ari-wion	ari-wiowot	ari-wioi
			-wiei
3rd person	ari-wiop	ari-wiowot	ari-wioi
			-wiei

§7 future tense, habitative (hbt) *'I will always go'* etc.

	S	D	P
1st person	ari-bisâm	ari-bisâit	ari-bisâin
2nd person	ari-bisân	ari-bisâwot	ari-bisâi
3rd person	ari-bisâp	ari-bisâwot	ari-bisâi

§8 desiderative (desid) *'I want to go'* etc.

	S	D	P
1st person	ari-wesâman	ari-resâmait	ari-nesâmain
2nd person	ari-wesâmat	ari-resâmawot	ari-nesâmai
3rd person	ari-wesâmap	ari-resâmawot	ari-nesâmai

In addition to the above forms the desiderative may evidence labialisation after the m: [a^hriβesəm^han] etc.

§9 contrary-to-fact (ctf) *'I should have gone'* or *'I might go'* etc.

	S	D	P
1st person	ari-bâm	ari-bâit	ari-bâin
2nd person	ari-bât	ari-bâwot	ari-bâi
3rd person	ari-bâp	ari-bâwot	ari-bâi

§10 inchoative future (if) *'I must go! You go! Let him go!'* etc.

	S	D	P
1st person	ari-we	ari-re	ari-ne
2nd person	ari-∅	ari-yet	ari-ŋet
3rd person	ari-âk	ari-yet	ari-ŋet
	-ek		

Allomorph -ek follows vowels a and â and allomorph -âk follows vowels i, e, o, u and consonants.

§11 permissive (perm) *'You may go'* etc.

	S	D	P
2nd person	ari-wot	ari-weloŋ	ari-wioŋ

§12 dependent heteropersonal (hetero) *'I went and...(someone else)...'*
etc.

	S	D	P
1st person	ari-mune	ari-mutŋe	ari-munŋe
2nd person	ari-râ	ari-mutâ	ari-ŋetâ
3rd person	ari-mu	ari-mutâ	ari-ŋetâ

§13 The dependent homopersonal (homo) forms are: {-mâ} punctiliar and -ma habitative. The morpheme {-mâ} has two allomorphs: -mâ following consonants and -m following vowels. Examples are: ek-mâ kinsap 'He stood and looked'; sâ-m kinsap 'He stood and spoke'; sâ-ma kinsap 'He stood and spoke continually'.

A simple comparison of the forms did not yield any clearly segmentable morphology with separate forms indicating tense, person or number. E.g., comparing (ipt) and (rpt) 1.s suggested -w as rpt and -∅ as ipt; comparing (ipt) and (rpt) 2.s presented no basis for segmentation; comparing (ipt) and (rpt) 3.s yielded -a as ipt and -o as rpt. A comparison of (ipt) and (ift) 1.s yields no basis for segmentation whereas (ipt) and (ift) 2.s and 3.s presents -wu ift and -∅ ipt as possibilities. Adding (icft) and (dft) singular forms to the comparison suggests -wom as icft and -womos as dft. The comparison of dual and plural forms, however, only adds to the complexity of the analysis. Although recurrent partials were recognizable, no consistent linear ordering of slots marking tense, person and number was discernible. It was not until the writer applied matrix theory and considered each paradigm as a matrix with row vectors and column vectors possibly manifesting allo-formatives, that the morphology became clear. This paper, it is hoped, will attest to the usefulness of matrix theory in morphemic analysis.

1. INDEPENDENT VERB PERIPHERY

1.1. Benefactive tagmeme

The first order suffix is filled by the bound benefactive pronouns:

	S	D	P
1st person	-nihi	-nitki	-ningi
2nd person	-gihi	-yitki	-yingi
3rd person	-wagi	-yitki	-yingi

ot-nihi-ap 'He did it for me.'
do-for me-he

puluwu-wagi-wi 'They bought it for him.'
buy-for him-they

ari-yitki-op 'He went for them(du).'
go-for them-he

tuhu-yingi-wi 'They did it for them(pl).'
do-for them-they

1.2. The second order suffix is filled by morphemes indicating -mini habitative (see §1), -m prohibitive or habitative (see §2). Other morphemes indicating mode appear to be fused forms and are analysed in the course of this paper.

1.3. The remainder of the periphery, those forms listed in paradigms 1-13, consists of fused forms indicating tense, person and number.

1.3.1. The paradigm which appears to be the simplest is *ipt* (§2). The formative -a occurs throughout the matrix as a third order morpheme and may be tentatively assigned the meaning *immediate past tense*.³ One may posit a zero allomorph occurring in 1.d and 1.p. This leaves the following forms indicating person and number:

	S	D	P
1st person	-n	-it	-in
2nd person	-t	-wot	-i
3rd person	-p	-wot	-i

1.3.2. The paradigm indicating *rpt* (§1) may now be compared. Comparison of other paradigms is not as fruitful. It is immediately evident that most forms already tentatively identified as indicating person and number may be separated. Only -n 2.s is apparently different. This leaves the formatives indicating *rpt* in a clearly discernible L pattern opening to the lower left:

-wa	-w	-w
-o	-o	-w
-o	-o	-w

The irregularity of the formative -wa causes us to re-evaluate our analysis of the formatives indicating person and number. If we posit the morpheme division of -wan (§1) as -w and -an we resolve this irregularity. The new formative indicating 1.s is -an. This does not conflict with the realised form indicating 1.s in *ipt* (§2) because of a phonological rule which states that "when two like vowels come into conjunction they reduce" (McElhanon 1967b:18). Thus *ari-a-an* (*go-ipt-I*) is realised as *arian* 'I went'.

1.3.3. The person-number composites are easily separable in the *rft* (§6) and *hbt* (§7). The morph -m 1.s may be added to the inventory of person-number morphemes. The forms not yet analysed are: -wio future tense, punctiliar mode and -bisâ future tense, habitative mode. Continued investigation of these forms does not yield any further morphemic divisions. One may assume, however, that mode precedes tense

on the basis of the forms *-mini*, *-m* habitative mode occurring as second-order suffixes (§1, §2).

1.3.4. In comparing the forms of *ctf* (§9), one may again separate the person-number morphemes and identify *-bâ* **contrary-to-fact mode**. There is no occurrence of a tense morpheme with this mode. Time is indicated by the occurrence of a filler in the time slot of the clause.

mukan ari-bâ-p 'He should have gone yesterday.'
yesterday go-should have-he

hâdâhen ari-bâ-p 'He might go tomorrow.'
tomorrow go-might-he

In anticipation of further analysis, a summary of the description thus far is given in Chart A. The term **non-immediate future verb** is used to describe the suffixal structure.⁴

CHART A

Non-immediate Future Verb

+ nucleus ± bene. prn.	+ mode	+ tense	+ person-number						
			1.s	2.s	3.s	1.d	2-3.d	1.p	2-3.p
-mini habit. -∅ punct.	-w,-o rpt	-an		-n					
-m habit. prohib. -∅ punct.	-a,-∅ ipt		-t	-p	-it	-wot	-in	-i	
-bâ ctf		-m							
-bisâ fut.habit. -wio,-wie fut.punct.			-n						

The chart above is intended to illustrate the co-occurrence restrictions amongst the suffixes. The allomorph **-an 1.s** occurs with past tenses; allomorph **-m** occurs elsewhere. The allomorph **-t 2.s** occurs with **ipt** and **ctf** only; allomorph **-n** occurs elsewhere. Allomorphs **-w ~-o rpt** are phonologically conditioned; **-w** precedes vowels, **-o** precedes consonants.⁵ Allomorph **-a ipt** occurs with all person-number forms; **∅** occurs only with 1st person, dual and plural forms. The remaining person-number suffixes have no co-occurrence restrictions.

1.3.5. A comparison of **ift** (§5) yields striking dissimilarities between its structure and the structure of the **Non-immediate future verb**. Person-number suffixes indicating 2nd and 3rd person (see 1.3.1.) may be easily isolated. Note, however, that in the first person the forms distinguishing singular, dual and plural are respectively **-w**, **-r** and **-n**. These forms carry on through the 2nd and 3rd persons. First person is indicated by **-∅** but there is no ambiguity regarding number because of the separate forms indicating number. Chart B presents the structure of the **Immediate future verb**.

CHART B

Immediate Future Verb

+ nucleus ± bene. prn.	+ number	+ tense-mode (ift)	+ person-number
	-w sg.	-om	-∅ 1st person
	-r du.	-ua	-t 2.s
	-n pl.		-p 3.s
		-oma	-wot 2-3.d
			-i 2-3.p

Co-occurrence restrictions are: **-∅ 1st person** occurs with **-om**; **-t 2.s** and **-p 3.s** occur with **-ua**; and **-wot 2-3.d** and **-i 2-3.p** occurs with **-oma**. Concord exists between the number indicated in the number slot and the number indicated in the person-number composites.

1.3.6. A comparison of **if** (§10) and **perm** (§11) reveals some similarities but also some unresolvable dissimilarities. The 1st person **if** forms resemble the 1st person **ift** forms since only the tense-mode marker **-e** is different. A comparison of the formatives indicating 2nd and 3rd

person in *if* with the formatives of the personal pronoun paradigm is illuminating. The personal pronoun paradigm is:

	S	D	P
1st person	nâ	net	nen
2nd person	gâ	yet	yen
3rd person	yâk	yâkyet	yâkyen

In the pronoun paradigm the formatives indicating person are: -n 1st person, -g 2nd person (occurring with singular number) and -y 2nd, 3rd person. The formatives indicating number are: -âk/-∅ singular (a tentative assignment of the assumption that the vowel is simply a part of syllable structure), -t dual and -n plural.⁶

It may be posited that in *if* (§10) the formative -y has taken on number marking significance, so that -y indicates dual, -ŋ indicates plural and -ek/âk/∅ indicate singular. The final -t may have taken on non-singular significance rather than specifically dual. The postulation of -y being an allo-formative of -r is not incongruous in light of the possibility of y and r being submembers of one phoneme in the proto-language (McElhanon 1968:9).

The *if* forms exhibit the structure of the Immediate future verb and the following morphemes may be added to the inventory: -∅/âk/ek singular, -y dual, -ŋ plural and -e *if*.⁷

1.3.7. The formatives of the *perm* (§11) are not clearly discernible. Number is evident in the l of -weloŋ dual. Perhaps a zero may be posited for plural as in -wi-∅-oŋ since zero may indicate plural in the person-number composites (see 1.3.11.).

1.3.8. The desiderative verb (§8) is analysed as a clause manifesting two embedded clauses and having the phonological characteristics of a word. The structure is:⁸

Desiderative = + inchoative future verb + sâm + ot- (in ipt)
Verb in first person

Concord exists between the number indicated in the inchoative verb and the number indicated in ot- 'to do'. The inchoative future verb is an independent clause functioning as the object of the dependent verb sâm 'saying'. This dependent clause in turn functions as the object of the independent verb ot- 'to do'. The examples given below are written indicating grammatical structure rather than phonological unity as in paradigm (§8).

ari-we sâ-m o-a-an (go-must I, say-ing, do-ipt-I)
'I want to go.'

ari-re sâ-m o-a-it (go-must we(du.), say-ing, do-ipt-we(du.))
'We(du.) want to go.'

ari-re sâ-m o-a-wot (go-must we(du.), say-ing, do-ipt-you/they (du.))
'You/they(du.) want to go.'

ari-ne sâ-m o-a-in (go-must we(pl.), say-ing, do-ipt-we(pl.))
'We(pl.) want to go.'

ari-ne sâ-m o-a-i (go-must we(pl.), say-ing, do-ipt-you/they(pl.))
'You/they(pl.) want to go.'

1.3.9. The inceptive future tense (§3) which indicates immediate intended action, is analysed as a clause manifesting an embedded clause as the object. It too has the phonological characteristics of a word.

Inceptive Future = + immediate future verb + ot- (in ipt)
Tense Verb in first person

The verb ot- occurs in its contracted form o-. In singular forms of paradigm §3 the o- is lost. In dual and plural forms the o- and the following tense marker -a contract to form â. Some speakers, particularly younger people, replace 2nd and 3rd person, dual and plural forms with the corresponding ift (§5) forms. Concord exists between the number indicated in the immediate future verb and the number indicated in -ot.

ari-wom o-a-an (go-I will, do-ipt-I)
'I am about to go.'

ari-wom o-a-t (go-I will, do-ipt-you)
'You are about to go.'

ari-rom o-a-it (go-we(du.) will, do-ipt-we(du.))
'We(du.) are about to go.'

ari-rom o-a-wot (go-we(du.) will, do-ipt-you/they(du.))
'You/they(du.) are about to go.'

ari-nom o-a-in (go-we(pl.) will, do-ipt-we(pl.))
'We(pl.) are about to go.'

ari-nom o-a-i (go-we(pl.) will, do-ipt-you/they(pl.))
'You/they(pl.) are about to go.'

1.3.10. The delayed future tense verb (§4) has the same structure as the inceptive future tense verb (§3) except that *ot-* occurs in a non-contracted form. Note the morphophonemic rule $t + s \rightarrow s$ which yields the forms *o-san*, *o-sat*, *o-sap* etc.⁹ This construction is used to indicate intended action which will commence after a short delay. Concord exists between the number indicated in the immediate future verb and the number indicated in *ot-*.

<i>ari-wom o-sa-an</i>	(<i>go-I will, do-ipt-I</i>) ' <i>I will soon go.</i> '
<i>ari-wom o-sa-t</i>	(<i>go-I will, do-ipt-you</i>) ' <i>You will soon go.</i> '
<i>ari-rom o-sa-it</i>	(<i>go-we(du.) will, do-ipt-we(du.)</i>) ' <i>We(du.) will soon go.</i> '
<i>ari-rom o-sa-wot</i>	(<i>go-we(du.) will, do-ipt-you/they(du.)</i>) ' <i>You/they(du.) will soon go.</i> '
<i>ari-nom o-s-in</i>	(<i>go-we(pl.) will, do-ipt-we(pl.)</i>) ' <i>We(pl.) will soon go.</i> '
<i>ari-nom o-sa-i</i>	(<i>go-we(pl.) will, do-ipt-you/they(pl.)</i>) ' <i>You/they(pl.) will soon go.</i> '

1.3.11. The person-number composites may be analysed to indicate that the person-marking formative precedes the number-marking formative. This is immediately apparent in comparing *-it* 1.d with *-in* 1.p. The *t* marks dual and the *n* marks plural. We may posit that \emptyset marks singular.¹⁰ The structure is + person + number and the formatives are:

	S	D	P
1st person	-an- \emptyset	-i-t	-i-n
2nd person	-t- \emptyset	-wo-t	-i- \emptyset
3rd person	-p- \emptyset	-wo-t	-i- \emptyset

2. DEPENDENT VERB PERIPHERY

The dependent verb, as the independent verb, has first-order benefactive pronoun suffixes. The remainder of the periphery consists of fused forms indicating mode, person and number. In paradigm §12, one may tentatively isolate *-mu* punctiliar mode as a second-order suffix. This leaves the remaining forms indicating person-number:

	S	D	P
1st person	-ne	-t η e	-n η e
2nd person	-râ	-tâ	- η etâ
3rd person	- \emptyset	-tâ	- η etâ

In accordance with the morphophonemic rules, vowel + d \rightarrow vowel + r and t + d \rightarrow t, these forms may be rewritten and a zero morpheme indicating singular added to form:

	S	D	P
1st person	- \emptyset -ne	-t- η e	-n- η e
2nd person	- \emptyset -dâ	-t-dâ	- η et-dâ
3rd person	- \emptyset - \emptyset	-t-dâ	- η et-dâ

One may then posit the structure: + nucleus \pm bene. prn. + mode + number + person. The morphemes indicating person and number are: - \emptyset singular, -t dual, -n or - η et plural (compare the *if* forms §10 and 1.3.6.), -ne or - η e first person, -dâ second person and - \emptyset 3.s (the distinction between second and third person in the dual and plural forms being neutralised).

3. CONCLUSION

One may question the value of such a solution. Would it not have been sufficient just to list the suffixes in the paradigmatic style and not attempt further analysis? For pedagogical purposes, of course, it may be preferable to simply list paradigms. But for thorough grammatical analysis and especially comparative grammatical analyses, it is necessary to go beyond such simple listings. Had the analysis been terminated with lists of paradigms, the grammatical analysis of the verb morphology would never have been completed.

In a tentative analysis of Mape verb morphology, the writer found similar apparently contrasting types of peripheral verb structure.¹¹

(1) Immediate Future and Inchoative Future: + nucleus \pm bene. prn. + person + number + tense.

kpa-yare-ki-c-miq (kill it-for them(pl.))-1st per.-pl.-ift)
'We(pl.) will kill it for them(pl.).'

kpa-yare-ki-c- \emptyset (kill it-for them(pl.))-1st per.-pl.-if)
'Let us(pl.) kill it for them(pl.).'

(2) Present, Immediate Past, Remote Future, Remote Inchoative:
+ nucleus ± bene. prn. + mode + tense + person + number.

kpa-yare-e-go-be-ne-ŋ (kill it-for them(pl.)-habit.-?-1st per.-
pl.-pl.)

'We(pl.) always kill it for them(pl.).'

kpa-yare-∅-go-be-ne-ŋ (kill it-for them(pl.)-punct.-?-1st per.-
pl.-pl.)

'We(pl.) are killing it for them(pl.).'

kpa-yare-∅-∅-be-ne-ŋ (kill it-for them(pl.)-punct.-ipt-1st per.-
pl.-pl.)

'We(pl.) killed it for them(pl.).'

kpa-yare-ie-go-be-ne-ŋ (kill it-for them(pl.)-rft-?-1st per.-pl.-
pl.)

'We(pl.) will later kill it for them(pl.).'

kpa-yare-ine-∅-be-ne-ŋ (kill it-for them(pl.)-rif-?-1st per.-pl.-
pl.)

'We(pl.) must later kill it for them(pl.).'

(3) Remote Past, Contrary-to-fact Past, Contrary-to-fact Future:
+ nucleus ± bene. prn. + mode + person + number.

kpa-yare-∅-be-ŋ (kill it-for them(pl.)-factual past-1st per.-
pl.)

'We(pl.) killed it for them(pl.) a long time ago.'

kpa-yare-no-be-ŋ (kill it-for them(pl.)-ctf.past-1st per.-pl.)

'We(pl.) should have killed it for them(pl.).'

kpa-yare-igo-be-ŋ (kill it-for them(pl.)-ctf.future-1st per.-pl.)

'We(pl.) might kill it for them(pl.).'

(4) Dependent Heteropersonal: + nucleus ± bene. prn. + mode +
relative time + person + number.

kpa-yare-gu-ka-be-ne (kill it-for them(pl.)-habit.-simultan-
eous-1st per.-pl.)

'While we(pl.) used to kill it for
them(pl.)...'

kpa-yare-Ø-ka-be-ne	(kill it-for them(pl.)-punct.-simultaneous- 1st per.-pl.) 'While we(pl.) killed it for them(pl.)...'
kpa-yare-Ø-Ø-be-ne	(kill it-for them(pl.)-punct.-antecedent- 1st per.-pl.) 'After we killed it for them(pl.)...'
kpa-yare-gu-Ø-be-ne	(kill it-for them(pl.)-habit.-antecedent- 1st per.-pl.) 'After we used to kill/hit it for them(pl.)...'

(5) Dependent Homopersonal: + nucleus ± bene. prn. + mode + relative time.

kpa-yare-ku-c	(kill it-for them(pl.)-punct.-simultaneous) 'While killing it for them(pl.)...'
kpa-yare-ru-Ø	(kill it-for them(pl.)-punct.-antecedent) 'After killing it for them(pl.)...'
kpa-yare-gu-Ø	(kill it-for them(pl.)-habit.-antecedent) 'After continually killing/hitting it for them(pl.)...'

One may note that whereas Selepet manifests four contrasting structures of verb periphery, Mape manifests five. In the dependent forms Selepet manifests the order number + person and Mape manifests the reverse, i.e., person + number. The implications for typological and comparative work are obvious. As data in the other languages of the Huon Micro-phylum become available, one may expect a firm basis to be established for the application of structure statistics.¹²

N O T E S

1. Data for this paper were gathered during the years 1964-68 while the writer was under the auspices of the Summer Institute of Linguistics and the Australian National University. The 5,500 Selepet-speaking people are located in the Kabwum Sub-district, Morobe District, Territory of New Guinea. The language belongs to the Western family of the Huon Peninsula Stock (see McElhanon 1969).

Analysis of the data was facilitated by use of a concordance of 25,000 words of text in the southern dialect of Selepet. This concordance was made on the IBM 1410 computer at the University of Oklahoma by the Linguistic Information Retrieval Project of the Summer Institute of Linguistics and the University of Oklahoma Research Institute, and sponsored by Grant GS-934 of the National Science Foundation.

Abbreviations used in this paper are: rpt - remote past tense; ipt - immediate past tense; icft - inceptive future tense; rft - remote future tense; hbt - future tense, habitative; desid - desiderative; ctf - contrary-to-fact; if - inchoative future; rif - remote inchoative future; perm - permissive; hetero - dependent heteropersonal; homo - dependent homopersonal; 1.s - first person singular; 2.s - second person singular; 3.s - third person singular; 1.d - first person dual; 2.d - second person dual; 3.d - third person dual; 1.p - first person plural; 2.p - second person plural; 3.p - third person plural; 2-3.d - second and/or third person dual; 2-3.p - second and/or third person plural; + - obligatory occurrence; ± - optional occurrence.

2. The suffixal forms given here occur only following vowels. The following morphophonemic rules provide alternate morphemic shapes: cons. + w → cons. + b, cons. + r → cons. + d.

3. This morpheme has an alternate form -sa following consonant-final fillers of the nucleus.

4. The nucleus is filled by either an intransitive verb root, e.g., ari 'to go', or a transitive verb stem. Transitive verb stems are divided into three classes on the basis of their occurrence with bound

object-pronoun allomorphs: e.g., *gâi-nek-sap* (*cut-me-he*) 'He cut me'; *pene-nihi-ap* (*join-me-he*) 'He joined me'; and *tân-noho-ap* (*help-me-he*) 'He helped me'. For further discussion see McElhanon 1967a:23-4.

5. This raises the interesting question posited by Pike and Erickson, 1964:212; "Emic matrices may prove to be subject to historical reconstruction and to occur in diachronic oscillation from approximations of simple toward ideal matrix, and from ideal toward simple matrix structures." As more data from languages related to Selepet become available, historical reconstruction of the phonological development of matrix patterns may indeed be possible.

6. The fact that \emptyset marks singular, *t* dual and *n* plural is readily apparent in an examination of the bound object-pronoun forms. Note the following first person forms taken from the bound object-pronoun paradigms:

	S	D	P
Class I	<i>ne-\emptyset-ek</i>	<i>ne-l-ek</i>	<i>ne-n-ek</i>
Class II	<i>ni-\emptyset-gi</i>	<i>ni-t-gi</i>	<i>ni-n-gi</i>
Class III	<i>no-\emptyset-go</i>	<i>no-t-go</i>	<i>no-n-go</i>

7. The designation **inchoative future** is preferred over the designation **imperative** because the idea of time is foremost. The English translation, however, is best represented by the English imperative.

8. Clues to the grammatical structure of the forms in paradigm 58 were gained from the analysis of dependent transforms of those forms and the analysis of forms of similar structure involving *ot-* in *rpt* or other verbs commutable with *ot-*. These transforms and the other forms have phonological characteristics of units larger than words.

<i>ari-we sâ-m ot-mâ</i>	(<i>go-must I, say-ing, do-ing</i>) 'Wanting to go...' (actor in singular number)
<i>ne-be sâ-m ga-a-an</i>	(<i>eat-must I, say-ing, come-ipt-I</i>) 'I came wanting to/in order to eat.'

9. See note 3.

10. See note 6. The occurrence of \emptyset and *-n* marking plural is also found in the nominal possessive-marking suffixes:

-ne-n-ne 'ours(pl.)', *-ye- \emptyset -ne* 'yours/theirs(pl.)'.

11. The Mape language is 19 percent lexically related to Selepet (McElhanon 1969). The meaning of the morpheme -go occurring as a third-order suffix is not clear. A possible meaning is non-past tense.

12. For the technique of structure statistics, see Capell, 1962.

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KAUGEL VERB MORPHOLOGY

BRUCE L. AND RUTH BLOWERS

Verbs are presented as follows: (1) verb roots; (2) verbs;
(3) verb specifiers; (4) verbals.

SIGNS

/	obligatory; plus
/-	optional
*	unpredictable dialectical fluctuation
/	predictable phonemic variation; alternating with
—	no such form in the language
-	minus; bound morpheme
∅	meaningful absence
V	vowel
C	consonant
.	morpheme break
,	following phoneme has been substituted or dropped
#	number; rule number
()	order

ABBREVIATIONS

Ben	Benefactive
T	Tense
M	Mood
A	Aspect
Ind	Indicator (for tense, mood and aspect combined)
Imp	Imperative
Hort	Hortative
sg	singular
pl	plural
dl	dual

Incl	Inclusive
Asrt	Assertive
Qual	Qualifying
Pol	Polite
Quo	Quotative
Emph	Emphatic
Ant	Anticipative
Int	Interrogative
Asm	Assumptive
Exc	Exception

VERB ROOTS

Verb roots are bound forms which take "tense" and as many as six other suffixes. (A bound form is a word form which is incomplete in itself and needs a suffix to make its meaning complete.)

A. Simple verb roots may consist of from one to three syllables.

to- 'hit' p̄fli- 'understand' kubulú- 'extinguish'

Subclass #1 consists of a single vowel or one syllable nasal roots.

o- 'come' ni- 'speak' no- 'eat' me- 'carry'

Subclass #2 consists of verb roots of irregular stress patterns.

túdu- 'drive into the ground' tudú- 'inability to do correctly'
áku- 'waste' akú- 'dig'

B. Compound verb roots are two or more verb roots joined. The second root is usually a form of pu- 'go'.

TE.PÚ.yo 'you GO DO'

NO.P,Á.bo 'let me GO EAT'

IRREGULARITY:

LI.P,É.bo 'let me GO EAT'

NI.P,É.bo 'let me GO SPEAK'

Phonemic explanation of the compound verb root irregularity:

The high front vowel of the initial verb root draws the point of articulation of the following root vowel to a mid-front position.

C. Multiple verb roots are a combination of four verb roots with only the initial root substitutable - the multiple form is followed by the final verb, te- 'do'. This denotes action of commutation.

walti.PU.Ó.PU TE- 'asking GOING AND COMING AND GOING'

te.PU.Ó.PU TE- 'doing GOING COMING AND GOING'

D. Free verb roots are unbound verb roots followed by the identical

root which is inflected. This denotes irrelevant action.
 KÁNO KÁNO.du 'See! - I saw it (but it was irrelevant).'
 KUBULÚ naa KUBULÚ.pili 'Die - don't let it die (the fire).'

VERBS

In the Kaugel verb, tense, mood and aspect do not always form a separate system. The division between mood and aspect is a fine line and in some verbs they combine to form a single system. Since they are structurally parallel with the tense system they will be considered as one category.

All examples using forms of the verbs are given in first person singular, except when there is no such form in the language, in which case the example will be given in second person singular - when contrast is necessary.

VERB CLASSES

1. Non-action

There are two kinds of verbs, non-action verbs, which are the equivalent of state-of-being-verbs in English. These are listed herewith. The subject of these verbs is used without the actor marker.

mólo-	'be'	pe-	'lay'
ágili-	'stand'	le-	'place'

2. Action

Action verbs may or may not be used with the actor marker on the subject. Action verbs are all verbs which are not included in the class of non-action verbs. A few are listed.

to-	'hit'	no-	'eat'
ti-	'give'	te-	'do'

Morpho-Phonemic rules

#1 (-V / -a) root final vowel is dropped when -a is added.

p(-u/a) / -bo	is	p,á.bo	'let me go'
t(-o/a) / -bo	is	t,á.bo	'let me hit'

IRREGULARITY: for root o- 'come'; o / a is wa 'you come'.

#2 -ji * -dV vowel agrees with vowel of preceding syllable (in some dialects).

ni.jf.yo / ni.dí.yo	'speak for...'
te.jf.yo / te.dé.yo	'do for...'

#3 When an alternate form is given, first form follows -i and -u; second form follows -e and -o.

Verb Chart 1
IMPERATIVE VERBS

	(1)	(2)	(3)			(4)	(5)	(6)	
ROOT	BEN.	INDICATOR	PERSON-NUMBER ENDINGS			ASSR.	INCL.	QUAL. MOODS	
f1	f-	f	l f			f-	f-	f-	
-i -u #1	-ji	Polite		<i>Singular</i>	<i>Dual</i>	<i>Plural</i>	-mu	-la	Asm. -je Int. -i / -e Ant. (-Vfa) Def. -ko
				1 ----	—	—			
				2 -yo #4	-lfo	-yo			
-o #1	*	Emphatic	-é / -á :3	1 —	-bolo	-molo			
				2 ∅	-le	-me			
				3 —	-le	-me #1			
-e	-dV #2	Quotative		1 —	—	—			
				2 -i #4	-le	-i			
				3 —	—	—			

(On the chart, -u is ruled by rule #1.)

nf.e.bo 'I may speak'

té.á.bo 'I will do'

#4 No indicator used.

pú.yo 'you go'

pú.pili 'let him go'

pú.i

pú

Stress rules

When not designated on the chart, stress occurs on the final syllable of the root.

mol,á.bo 'I will stay'

mud,á.bo 'I will send'

IMPERATIVE VERBS

NOTE: Each set of examples use verb roots of each of the four vowels. Imperative verbs express commands, exhortations and suggestions.

Polite verbs express commands only in second person; these may also be used as greetings and farewells.

nf.yo 'Speak.'
 pú.yo 'Go.'
 moló.yo 'Stay.'
 té.yo 'Do.'

Emphatic verbs express emphasis in commands but may or may not be demanding. (Translations of Emphatic will carry the exclamation point.)

nf.e 'Speak!'
 p,a 'Go!'
 mol,á 'Stay!'
 té.a 'Do!'

Quotative verbs express a direct quoted command, and are followed by a quotative verb form. Translations of Quotations are enclosed in commas. Since it is a Medial verb form, a final verb must be included in the examples for clearer translation.

,ni.i, nímu "'Speak," he said.'
 ,pú.i, nímu "'Go," he said.'
 ,moló.i, nímu "'Stay," he said.'
 ,te.i, nímu "'Do (it)," he said.'

Hortative verbs express an exhortation, suggestion, desire or invitation. They also express the Near Future meaning. See Final Verbs, Chart 2.

nfie.bo 'Let me speak.'
 p,á.bo 'I wish to go.'
 mol,á.bo 'I desire to stay.'
 te.á.bo 'I will soon do (it).'

OPTIONAL SUFFIXES

Benefactive denotes action done for the benefit of another.

ni.Jí.e.bo 'Let me speak FOR...'

Inclusive denotes action included, meaning 'too' or 'also'.

nf.e.bo.LA 'Let me speak TOO.'

Assertive denotes action asserted, meaning 'do' or 'must'.

nf.e.bo.MO 'I MUST speak.'

nf.e.ni.MU 'DO speak.'

Anticipative denotes action anticipated or longed for, most commonly occurs on Near Future verbs.

nf.e.BA 'I LONG TO speak.'

Assumptive is action assumed or supposed.

nf.e.bo.JE 'PERHAPS I will speak.'

Interrogative is action interrogated or asked.

nf.e.bo.E 'Shall I speak?'

nf.e.ni.l 'Will you speak?'

Suffix combinations may include from two to four optional suffixes.

ni.Jf.e.bo.LA.JE 'PERHAPS I will speak FOR...TOO.'

IMPERATIVE VERB COMBINATIONS

are combinations of various verbs on Chart 1. Only the shortest expansions are given.

Hortative-Emphatic:

'Tell him to come!'

ó.pili nf.e

let.him.come you.speak!

'Come, let's go hit (him)!'

t,á.mili p,á.mili w,á.molo

let.us.hit let.us.go we.come!

Hortative-Polite:

'Tell him to come.'

ó.pili nf.yo

let.him.come you.speak

'Come, let's go hit (him).'

t,á.mili p,á.mili w,á.yo

let.us.hit let.us.go you (pl.) come

Quotative occurs with Medial or Final verb forms, so do not appear with examples in this section.

Morpho-phonemic rules for Verb Chart 2 (for rules 1-4 see Chart 1)

- #5 In some dialects, the first form occurs with 'i' and 'e' roots, the second with 'u' and 'o' roots.

tirí.du 'I gave'

te.rí.du 'I did'

pu.rú.du 'I went'

no.rú.du 'I ate'

- #6 Class 1 roots have prenasalised bilabial stop in indicator. (Nasalisation of indicator occurs with subclass :1 roots.)

ni.bé.ro 'I am speaking.'

no.bá.ro 'I am eating.'

te.pá.ro 'I am doing.'

to.pá.ro 'I am hitting.'

Verb Chart 2

FINAL VERBS

	(1)	(2)	(3)			(4)	(5)	(6)
ROOT	BEN.	INDICATOR	PERSON-NUMBER ENDINGS			ASSR.	INCL.	QUAL. MOODS
f	f-	f	l f			f-	f-	f-
-i		Past	*#5	1 -du	-bulu	-mulu		Asm. -je
			-rí -rú	2 -nu	-gili	-gi		
-u	-ji	Near Past	∅	3 -mu	-gili	-gi	-mu /	Int. -la -i/-e
			-----	1 -ru/-ro	-bulu/ -bolo	-mulu/ -molo		
	*	Pres. Inst.	#7	2 -nu/-no	-bili/ -bele	-mili/ -mele	-mo	
			#5	3 -mu/-mo	-bili/ -bele	-mili/ -mele		
-o	-dV	Near Fut./ Hortative	-----	1 -bo	-bili	-mili		Ant. (-Vfa)
			-é -á	2 -ni 3 -pili :4	-gili -gili	-gi -gi		
-e		Fu- ture	∅	1 -bú/-bó	-bulú/ -boló	-mulú/ -moló		Def. -ko
			-----	2 -ní 3 -bé/ -bá	-gilí/ -gelé -gilí/ -gelé	-gí/ -gé -gí/ -gé		
		Cus- to- mary	-li	1 -ó	-bólo	-mólo		
			#7	2 -nó 3 -mó	-béle -béle	-méle -méle		
		Sub- junc- tive	-le	1 -ké/-ká	-bolká	-molká		
			#7, 8	2 -ná 3 -ké/-ká	-belká -belká	-melká -melká		

#7 When multiple roots ending in -IV are followed by -k the final vowel of the root is dropped.

pili- f -li f -ke becomes pi.l,ké

molo- f -le f -ka becomes mol,ká

#8 When -IV is followed by -k, the vowel is dropped before the suffix is added.

pu- / -li / -ke becomes pu.l,ke

te- / -le / -ka becomes te.l,ká

#9 When multiple roots end in -IV and are followed by an indicator of -IV, the IV of the root is dropped before the final suffix is added.

molo- / -le becomes mole- then mó,le.na 'you would be'

agili- / -li becomes agili- then ági.li.o 'I stand'

NOTE: If the final suffix begins with 'k' then both #8 and #9 apply.

molo- / -le / -ka becomes molká 'he would be'

pili- / -li / -ke becomes pilké 'he would understand'

Fluctuation often occurs on -li roots:

pilikiru / pilkíru 'I know'

agilikiru / agilkíru 'I stand'

Stress rules

Stress is predictable on verbs, as it is always on the indicator except in case of the zero morpheme when it is on the final syllable of the root. (This is for verbs on Chart 2.)

FINAL VERBS

Final verbs occur clause and sentence finally. On Chart 2, the final verbs are listed according to their position of time - the farthest distant past first, and then on to the most distant future. Examples include roots which are nasal, non-nasal, and two syllable velar roots. Chart 2 verbs state acts which indicate tense, or the time of the action, except Customary and Subjunctive which are structurally the same therefore occur on the same chart.

Past tense indicates action taken place long ago or some time beyond yesterday.

1. ni.rí.du I spoke

2. pu.rú.du I went

3. molo.ró.du I was

4. te.rí.du I did

Near Past tense indicates action taken place yesterday or between that time and now.

5. ní.du I spoke

6. pú.du I went

7. moló.du *I was*
 8. té.du *I did*

Present tense indicates action taking place now.

9. ni.kí.ru *I speak/am speaking*
 10. pu.kú.ru *I go/am going*
 11. mol,kó.ro *I am/I am being*
 12. te.ké.ro *I do/am doing*

Present Instantaneous tense indicates action initially experienced this instant, of which one was not aware before.

13. nibé.ro *I am speaking*
 14. li.pé.ro *I am taking*
 15. to.pá.ro *I am hitting*
 16. no.bá.ro *I am eating*

Near Future tense (also called Hortative Aspect - see Chart 2) indicates action which will take place soon, or tomorrow.

17. ní.e.bo *I will (soon) speak*
 18. p,á.bo *I will (soon) go*
 19. mo,l,á.bo *I will (soon) be*
 20. te.á.bo *I will (soon) do*

Future tense indicates action which will take place later than tomorrow.

21. ni.bú *I will speak (later)*
 22. pu.bú *I will go (later)*
 23. molo.bó *I will be (later)*
 24. be.bó *I will do (later)*

Customary aspect denotes action which is the usual or customary habit.

25. ni.lf.o *I (usually) speak*
 26. pu.lf.o *I (usually) go*
 27. mo.lf.o *I (usually) am*
 28. te.lf.o *I (usually) do*

Subjunctive mood denotes doubtful or possible or desirable action.

29. ni.l,ké *I would speak*
 30. pu.l,ké *I would go*
 31. mo,l,ká *I would be*
 32. te.l,ká *I would do*

OPTIONAL SUFFIXES

All optional suffixes found on the Final Verb Chart have previously been defined in the Imperative, Chart 1 section. The verbs will be used in the same manner except that the time of the action will change. One new one on the Verb Chart 2 for Final Verbs will be explained.

Definitive is action which is definite, regarded as final, irrevocable.

33. ni.kí.ru.KO *I speak (as final)*

34. te.ké.ro.KO *I do (as final)*

FINAL VERB COMBINATIONS:

Two Final verbs combined in the proper sequence create aspects which are not indicated by the single verb form and cannot be literally translated.

Preparatory

Two Final Verbs from Chart 2 may be combined without the use of a connector. A Future tense verb followed by any tense of the Final Verbs becomes action prepared to or about to happen. The latter verb is usually te- 'do'.

35. 'I am about to go.'

pu.bú te.ké.ro
I.will.go I.am.doing

36. 'I was about to hit (him).'

to.bó te.rf.du
I.will.hit I.did

Cause-Resultive

Two Subjunctive verbs may be combined, with one or both of them using the Assumptive suffix denoting a result which is the cause of a former action. Used singly is a suggested command.

37. 'If you would speak, he would go.'

ni.li.ná.je pu.l,ká
you.would.speak.perhaps he.would.go

38. 'If you would speak, he might go.'

ni.li.ná.je pu.l,ká.je
you.would.speak.perhaps he.would.go.perhaps

39. 'You speak, and perhaps he will go.'

ni.li.ná pu.l,ka.je
(I suggest).you.speak he.would.go.perhaps

Experiential

A Chart 2 verb followed by a Customary verb utilising *le-* 'place' denotes an action which is a combination of tense, aspect and mood. The final verb of the combination always occurs in the third person singular, since the final action complements the first one.

The Experiential verb combination denotes tense - now, this instant; aspect - initial knowledge of the action personally experienced (not previously aware of); and mood - as an attitude toward an action.

Established fact (past tense)

40. *'It's a fact that he came.'*

ó.mu lé.mo
he.came he.was.placed

41. *'It's a fact that he died.'*

ko.ló.mu lé.mo
he.died he.was.placed

Obvious fact (present tense)

42. *'It's obvious that I am here.'*

ó.du le.ké.mo
I.came it.is.placed

43. *'It's obvious that it is done.'*

té.mo le.ké.mo
he.did it.is.placed

Accepted fact (present instantaneous)

44. *'It's accepted that he is here.'*

ó.mu le.pá.mo
he.came he.is.placed.personally

45. *'It's accepted that he is alive (though it does not seem).'*

mó.le.mó le.pá.mo
he.is.living he.is.placed.personally

MEDIAL VERBS

Medial verbs occur sentence medially, agreeing in person and partially in number with the Final verb. See Chart 3. The subjects of the Medial and Final verbs are the same.

Sometimes, though rarely, a Medial verb occurs utterance finally. It indicates a thought cut in half or an utterance stopped, leaving the

main verb understood by the context.

Verb Chart 3

MEDIAL VERBS

	(1)	(2)		(3)			(4)
ROOT	BEN.	INDICATOR		PERSON-NUMBER ENDINGS			QUAL. MOODS
<i>f</i>	<i>f-</i>	<i>f</i>		1 <i>f</i>			<i>f-</i>
-i -u	-ji	Comple- tive	∅	<i>Singular</i>	<i>Dual</i>	<i>Plural</i>	Incl. -la
			-li	1 -pu/-po	-pulu/-polo	-pu/-po	
		Simul- taneous		2 -ku/-ko	-kulu/-kolo	-ku/-ko	Conn. -lie
-u	*	Nasalisation of person-number endings occurs with subclass #1 roots, making the person-number endings contain prenasalised bilabial stops. See section below.					
-o	-dV		1 -bu/-bo	-bulu/-bolo	-bu/-bo		
		2 -gu/-go	-gulu/-golo	-gu/-go			
-e		3 -be/-ba	-gulu/-golo	-gu/-go			

Morpho-phonemic rules

See Charts 1 and 2. Rule #5 does not govern when the Simultaneous indicator is used:

- lilipu 'I, while having taken'
 nilipu 'I, while having spoken'
 lipu 'I having taken'
 nibu 'I having spoken'
 topo 'I having hit'
 nobo 'I having eaten'

Stress

Stress on Medial verbs seems to occur more on the final vowel of the root, except in multiple roots when it may be on the person-number ending.

All Medial verb examples will be used with a Final verb for the sake of meaningful translations.

Completive medial verbs denote action completed before the action of the Final verb takes place.

1. 'I killed and am eating.'
 tó.po no.kó.ro
 I.having-hit I.am.eating
2. 'I have a speech.'
 ní.bu ti.rí.du
 I.having.spoken I.gave

Simultaneous medial verbs denote action occurring at the same time or simultaneously with the action of the Final verb.

3. 'He speaks while (as) he goes.'
 ní.li.pe pu.ku.mu
 he.while.speaking he.goes
- 'While eating, he is going.'
 nó.li.pe pu.kú.mu
 he.while.eating he.is.going

MEDIAL VERB OPTIONAL SUFFIXES

Connective medial verbs denote one kind and time of action connected to that of another type by the suffix *-lie* 'and'.

If the speaker of the sentence considers the second action a different kind of action or psychologically separates it from the first action, he uses the suffix *-lie*. If he wishes to follow an action with another action constituting a full clause by the same actor as the first clause, *-lie* is suffixed to the Medial verb. This is especially so if the second action occurs at a different time from the first action. The Connective Medial verb may have two like subjects.

5. 'Having brought it, I am taking it.'
 mé.bo pu.pu.LIE lí.kf.ru
 I.having.carried I.having.gone,AND-then I.am.taking
6. 'I spoke and then came.'
 ní.bu ti.pú.LIE o.kó.ro
 I.having.spoken I.having.given.AND-then I.come

MEDIAL VERB COMBINATIONS

String medial verbs consist of a string of two or more medial verbs, which often are used with the Specifier. (For examples of Specifier: see *Specifier*.) The subject remains the same.

Medial-Polite

15. 'Go get it.'
 pú.ku lí.yo
 you.having.gone you.take

16. 'Go on past.'
 ó.go pu.yo
 you.having.come you.go

Medial-Hortative

17. 'Go get it.'
 pú.ku lí.e.ni
 you.having.gone you.may.take

18. 'Come on past.'
 ó.go p,á.ni
 you.having.come you.may.go

All the above combinations may occur with the final Quotative verb
 ni-, i.e. pú.ku lí.e ni.rímu
 you.having.gone you.take he said
 "'Go get it," he said.'

Quotative-Medial-Final

19. "'Go," he said, and then he went.'
 pú.i, ní.be.lie pu.rú.mu
 you.go he.having.said.and-then he.went

Quotative-Final-Imperative

20. "'Go," he said, "Go!".'
 pu ní.kí.mu p,a
 you.go he.is.saying you.go

Medial-Final (most commonly used verb structure in the language)

Simple:

21. 'I am bringing.'
 mé.bo o.kó.ro
 I.having.carried I.am.coming
22. 'I am making a speech.'
 ní.bu tí.kí.ru
 I.having.spoken I.am.giving

Continuous:

23. *'I am waiting.'*
 no.kó.po mo.lkó.ro
I.having.waited I.am.being

24. *'I am doing (it).'*
 té.pa mo.l,kó.ro
I.while.doing I.am.being

Reckoning:

25. *'I think it is there.'*
 lé.pa te.ké.mo
it.having.placed it.is.doing

26. *'I think he is there.'*
 móló.pa te.ké.mo
he.having.been he.is.doing

Medial Verb Irregularities (these apply to the verbs in Chart 3,
 Medial Verbs)

1. With verb root *me-* 'carry' *-le* is used in some dialects non-
 inflected, instead of the inflected person-number endings.

Compare: *mé.bo pu.kú.ru* with *mé.le pu.kú.ru* 'I am taking'
mé.go w,a with *mé.le w,a* 'you bring'

2. Two verb roots occur as only Medial forms:

alto- 'again'
nodo- 'close'

27. *'Do it again!'*
 altó.ko te.á
you.having.again you.do

28. *'He will soon come.'*
 nódo.pa o.bá
he.having.close he.will.come

3. Two verb roots which can never occur finally except a Medial
 form is used with it:

kéji- 'badly'
kóji- 'goodly, well'

29. *'I am doing it badly.'*
 té.po keji.kí.ru
I.having.done I.am.doing.badly

30. 'I am killing.'
 tó.po kóji.kíru
 I.having.hit I.am.doing.good

DEPENDENT VERBS

Dependent verbs are Final verb forms followed by an obligatory Connector or Slot Marker, which occur sentence medially, never alone or sentence finally. They contain fully inflected Final verb forms except for the sixth order suffixes.

- A. *Connector* dependent verbs:
 1) join to another clause by a Connector;
 2) may or may not have the same subject as the following verb;
 3) functions as a clause on a sentence level.

Connector dependent verb examples given use the simplest grammatical structure and vocabulary in order to focus on the use of the Connector.

1. **Contradictive #1:** nákoló/nálo/kúlu 'but'

'The rain is coming BUT I will go.'

lo o.kó.mo NÁKOLO na pú.bu
 rain it.is.coming I I.will.go

(The last two forms are dialectical contractions of nákoló and may be used the same.)

2. **Contradictive #2:** magáli 'but'

'It will rain BUT I will go.'

lo o.ba MAGÁLI pú.bu
 rain it.will.come but I.will.go

3. **Concessive:** képe 'even though, even if'

'EVEN IF it rains, I will go.'

lo ó.bá KÉPE na pú.bu
 rain it.will.come nevertheless I I.will.go

4. **Resultive:** kéne 'therefore, so'

'The rain is coming SO I will soon go.'

lo o.bá KÉNE na p,á.bo
 rain it.will.come so I I.will.go

5. **Causative:** -na 'because'

'I will go BECAUSE it is going to rain.'

lo o.bá.NA na pu.bú
 rain it.will.come.because I I.will.go

Structurally, this connector is a free form, but in order to prevent ambiguity it is used as a suffix.

6. Indecisive: -ne...-ne 'whether or not'

'WHETHER it rains OR NOT, I will go.'

lo o.bá.NE molo naa o.bá.NE na
 rain it.will.come.whether not no it.will.come.or.not I
 pu.bú
 I.will.go

7. Conditional: liemo 'if'

'IF it rains, I will not go.'

lo o.mu (also o.bá) LIEMO na naa pu.bú
 rain it.will.come if I not I.will.go

8. Purposive: -du/-do 'for the purpose of'

'I have come TO talk.'

úgu ni.bu. DU o.kó.ro
 speech I.will.speak for-the-purpose-of I.am.coming

B. Slot Marker dependent verbs:

- 1) are joined to the main clause by a Slot Marker;
- 2) may or may not have the same subject as the following verb;
- 3) function like a single word, on the clause level.

Slot Marker Dependent verb examples are found on the page following this list of Slot Markers with English meanings.

Subject or Object (Singular): -mu/-mo (Definite article 'the one')

1. -mu 'the one who'
2. ákumu 'that one who'
3. ádumu 'that one spoken of before'
4. kádumu 'that one seen before and now being seen or spoken of, who...'
5. kánumu 'that one seen before and now not being seen, who...'
6. -mo 'the one who...'
7. káliemo ?

Subject or Object (Plural): -ma/-me 'those ones'

8. -ma 'the ones who...'
9. ákuma 'those ones who...'
10. -me 'the ones who...'

Subject or Object (Singular): -ri/-re (Indefinite article)

11. -ri 'a one who...'
12. -re 'a one who...'

Subject or Object (Plural):

13. -mare 'some ones who...'

Actor -ni/-ne (may occur only in the Subject slot, which denotes emphasis on the subject as actor of the verb):

14. -muni *'the one who..., it'*
15. akumuni *'that one who..., he'*
16. -rini *'a one who..., he'*
17. -mone *'the one who..., he'*
18. -rene *'a one who..., he'*
19. -mane *'the ones who..., they'*
20. ákumane *'those who..., they'*

Possessive -ga/-ge (may occur in the Possessive or Object Slot, which will show possession):

21. -ga *'of the one'*
22. -ge *'of the one'*
23. -muga *'of the one who...'*
24. -moga *'of the one who...'*
25. -maga *'of the ones who...'*

Locative -na (occurs in the Location slot) -na / -ne (denotes specific location):

26. -na *'at'*
27. -ne *'at'*

Direction -du/-do (denotes general direction):

28. -du *'toward'*
29. -kudu *'toward the direction'*
30. -kidu *'toward the direction'*
31. -ridu *'toward a...'*
32. -dó *'toward'*
33. -kodo *'toward the direction'*
34. -kedo *'toward the direction'*
35. -redo *'toward a...'*

Adverb kinie (occurs in the Time slot):

36. kinie *'when'*

Instrument kinfe (occurs in the Manner slot) ?

37. kinfe *'with'*

Slot Marker Dependent Verb Examples

The following examples show how the clause of the Dependent verb functions like a wingle word. There is person agreement between the verb of the two clauses.

Slot Markers #1-13 (on preceding pages) may occur in the Subject or Object Slots.

Subject (singular subject with singular verb):

- (1) 'THE ONE who spoke worked.'

úgu ni.rí.mu.MU kogóno te.rí.mu
word he.spoke.the-one work he.did

- (6) 'THE ONE who usually speaks is there.'

úgu nili.mó.MO we mol,kó.mo
word he.usually-speaks.the-one just he.is.being

NOTE: Examples not listed - singular subject with plural verb or plural subject with singular verb.

Object (plural) -ma/-me:

- (8) 'I saw THE ONES who usually spoke.'

na úgu ni.rí.gi.MA káno.du
I word they.spoke.the-ones I.saw

'I saw THE ONES who usually speak.'

na úgu ni.li.méle.ME káno.du
I word they.usually.speak.the-ones I.saw

NOTE: Examples not listed for singular object with plural verb.

Slot Markers #14-27 may occur in the Subject slot only.

- (14) 'THE ONE who spoke, he worked.'

úgu ni.rí.mu.MU.NI kogóno te.rí.mu
word he.spoke.the-one.he work he.did

- (17) 'THE ONE who usually speaks, worked.'

úgu ni.li.mó.MO.NE kogóno te.rí.mu
word he.usually.speaks.the-one.he work he.did

Slot Markers #21-24 may occur in the Possession Slot on the Phrase level.

Possession -ga/-ge:

- (21) 'The wife OF the one who spoke, worked.'

úgu ni.rí.mu.GA ábo kogóno te.rí.mu
word he.spoke.of woman work he.did

Slot Markers #25-34 may occur in the Location Slot.

Location -na:

- (26) 'A man went to the place WHERE Jesus was.'

ye te Jfsas molo.rú.mu.NA pu.rú.mu
man one Jesus he.was.being.at he.went

Directional may occur in the Location Slot:

- (27) 'A man went TOWARD where Jesus was.'

ye te Jfsas molo.rú.mu.DU pu.rú.mu
man one Jesus he.was.being.toward he.went

Slot Marker #35 may occur in the Time Slot.

Adverb k'nie:

(35) 'WHEN he spoke, he worked.'

úgu ni.rí.mu KÍNIE kogóno te.rí.mu
 word he.spoke when work he.did

VERB SPECIFIERS

A verb *Specifier* is a word which immediately precedes the verb and specifies the action of the verb. There is no equivalent in English grammar. There is no rule for predicting which verb root is used with each Specifier so these must be learned empirically.

1. 'I am making (something).'

mími te.ké.ro
 make I.am.doing

2. 'I am teaching.'

máne ti.kí.ru
 instruction I.am.giving

All verbs have a basic meaning which is clear when they stand alone or with object nouns.

3. 'I am hitting.'

to.kó.ro
 I.hit

4. 'I am hitting a pig.'

kógi to.kó.ro
 pig I.hit

Simple specifiers used with the verb create a new meaning which often obscures the basic meaning of the verb form.

5. 'I am CARRYING on the shoulders.'

ÁPU to.kó.ro
 ride I.hit

6. 'I am PEELING.'

PÉKE to.kó.ro
 peel I.hit

Repetitive specifiers are repeated specifier forms, except for the substitution of the syllable *ma-* on the repeated form which is joined by a hyphen. The initial form may stand alone, the second never. The repetitive specifier denotes a repeated manner of action.

7. 'I am TURNING around.'

TÓPELE to.kó.ro
 turn I.hit

8. 'I am *TURNING (it) AROUND AND AROUND.*'
 TÓPELE-MÁPELE to.kó.ro
turning-around-and-around I.hit
9. 'I am *CUTTING (it).*'
 KÁRO li.kí.ru
cut I.am.taking
10. 'I am *CUTTING it in slices.*'
 KÁRO-MARO li.kí.ru
cutting-and-cutting I.take

Irregular Repetitives

There are some Repetitive specifiers which do not take the usual ma-syllable denoting repetition.

11. 'I am *ANTICIPATING.*'
 NÓLLEA-WÁLLEA mo.l,kó.ro
anticipation I.am
12. 'It is *LIGHTNING.*'
 KÁRIYAPO-DÍGIYAPO te.ké.mo
lightning it.is.going

Duplicative specifiers appear to be duplicate forms which actually are not, therefore are considered a single word.

13. 'I am *SHAKING.*'
 PÚRUPURU ni.kí.ru
shake I.am.speaking
14. 'I am *jumping with FRIGHT.*'
 PÚGUPUGU ni.kí.ru
fright I.am.speaking

Adverb specifiers consist of an adverb of manner specifying it as an action of manner.

15. 'I am *HURRYING.*'
 TABURABÚ pu.kú.ru
hurry I.go
16. 'It is *STRONG.*'
 TÓDOLÓ le.ké.mo
strong it.is.placed

Complement specifiers are adjectives or nouns found in constructions comparable to the English predicate adjective statements such as '*it is hot*' or '*I am hungry*'. These are formed by a Complement specifier followed by a verb always in the third person singular, since the specifier complements the subject.

17. 'I am COLD.'
 ÁLI te.ké.mo
 cold it.is.doing

18. 'I am HUNGRY.'
 ÉGELE te.ké.mo
 hunger it.is.doing

IRREGULARITY

There are a few Specifiers which *must* be preceded by a Medial verb and followed by a Final verb.

19. 'I am SHOWING.'
 lí.pu ORÁ ti.kí.ru
 I.having.taken show I.am.giving

20. 'They are GATHERING together.'
 lí.ku MÁKU to.rí.gi
 they.having.taken assembly they.hit

VERBALS

Verbals are a class of words which -

- 1) are verbs in form but function as nouns;
- 2) are inflected forms;
- 3) have no person-number endings;
- 4) may be suffixed with any clitic which may occur on a noun;
- 5) on the word level are used as adjectives, that is, follow the noun which they modify;
- 6) in a verbal phrase are used as nouns;
- 7) are of two classes, Factual and Potential;
- 8) are analysed on Chart next page.

Factual verbals have the -li indicator.

lili 'receiving'
 abo lili 'woman receiving'
 abo lili ye 'a man-receiving man' (man who is getting married)
 mane tili 'instruction-giving' (teacher)
 ugu pilili 'word-understanding' (one who understands)

Potential verbals have the -i or -u indicator.

to- 'hit'
 tou- 'a hitting one'
 opa tou 'an arrow hitting one' (enemy)
 kewa nou. 'a foreigner eater' (cannibal)
 lagi mimi tei 'a food maker' (cook n.)

Verb Chart 4

VERBALS

	(1)	(2)		(3)	(4)
ROOT	BEN.	INDICATOR		PERSON-NUMBER ENDINGS	QUAL. MOODS
<i>f</i>	<i>f-</i>	<i>f</i>			<i>f-</i>
-i	-ji	Fac- tual	-li	∅	-mo -ma -mele
-u					
-o		Po- ten- tial	-i	∅	
-u			/		
			-u		

NOTE

Gawigl is the Medlpa pronunciation of the name of the Kaugel river, language, or people. Gawigl is the term used by Gordon Bunn and Graham Scott, in their *Languages of the Mt. Hagen Sub-District* (DIES, Port Moresby, 1962). Kakoli is the form used in the language itself (phonemic spelling of Kaugel, which is the form used on Administration maps).