THE PHONOLOGIES OF A LAMPANG LAMET AND WIANG PAPAO LUA

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O. INTRODUCTION

Lamet and Lua are both Palaungic languages.

Data on the Lamet of this study were collected in Lampang from speakers originally from Takluh village, north of Nam Tha, but who moved to Lampang more than thirty years ago. Their dialect is close to but different from Lindell et al.'s (1978) dialects A and B. It clearly belongs in Ferlus's (1980) Lower Lamet.¹ Lindell et al. suspected voice register in Lampang Lamet but failed to find it. This study confirms their suspicion: there is indeed contrastive register. It is often difficult for the nonnative ear to hear, but the two registers were discriminated unhesitatingly and consistently by several speakers. My main informant described them as "soft tongue" vs "hard tongue". Tense ("hard") register is here transcribed with the acute, ', while lax ("soft") register is left unmarked.

The Lua of this study has been called Khamet, by Kraisri (1963) and others, or Lawa; but the people with whom I was in contact preferred the name Lua. These villagers have lived in Ban Pang Chok (Ban Lua) in Wiang Papao district of southern Chiangrai province all their lives, and I could find no tradition of their ancestors' having ever lived anywhere else. Ferlus (1980) and others consider Lua to be a dialect of Lamet. On the contrary, I find them to be only about 50% cognate, and regard Lua as clearly not a Lamet dialect, though perhaps belonging to the same subgroup within Palaungic.

This study presents the phonologies of the two languages by hierarchical ranks: the intonation group, the stress group, the syllable, and the phoneme. Voice register is treated at the phoneme rank because it distinguishes morphemes, even though phonetically it is probably a syllable prosody.

¹I am indebted to Mr Kaew Wiwansaj for my primary Lamet data, to Mr Saw Khammimut for my primary Lua data, and to David Thomas for assistance in preparing this paper.

1. LAMPANG LAMET

1.1. Intonation group.

There are two contrasting types of intonation contour: the statement contour and the question contour. These contrast in the final stress group. The precontour stretch, though drawn as a straight line, is neutral and may vary in pitch.

The statement contour has three subtypes according to the structure of the final stressed syllable:

the structure of the final stressed syllable:
$\alpha. \;\;$ If the syllable ends in a stop or fricative after a short vowel, the intonation will glide upwards slightly:
taa? chanloon ?éh khəpən má?
village leader get wife new
səŋəh ?aa? khəmih ————————————————————————————————————
today I catch-a-cold
 b. If the syllable ends in a stop or fricative after a long vowel, the intonation will fall after gliding upward: γύψη kóoj ηωωτ
father not stay
?aa? thám yíih
I see bear
$\ensuremath{\mathcal{C}}.$ If the syllable is open or ends in a voiced continuant, the intonation will glide downward very slightly:
?aa? su? saam plı? mpii
I like eat pumpkin
saam saam
eat eat
The question contour is used for interrogatives. The stressed syllable of the final word has a strongly rising pitch:
méh jám — num ?əh palswm méh
who die? year this grow what?

1.2. Stress group.

The Lamet stress group may have one or two syllables. Each stress group has as its nucleus one strongly stressed syllable, which is always the last syllable in the group. As its periphery it may have an unstressed open syllable or a weakly stressed closed syllable. Thus, if S = stressed syllable and s= nonstressed syllable, we may say that the two permissible patterns are S and sS, in other words:

$$\begin{array}{c} \pm \left\{ \begin{array}{c} \text{unstressed syllable} \\ \text{weakly stressed syllable} \end{array} \right\} \text{ + strongly stressed syllable} \\ \\ \text{Examples:} \qquad \left[\begin{array}{c} \text{púk} \\ \text{[m'p\acute{e}k]} \end{array} \right] \text{ 'hot'} \\ \\ \text{[m'p\acute{e}k]} \text{ 'broken'} \end{array}$$

[pəl'kuul] 'finger'

Both of these types of stress group may function in the intonation group.

1.3. Syllable.

The structure of the Lamet syllable can be described in terms of a nucleus consisting of a vowel and a periphery formed by one, two, or more consonants. Both open and closed syllables may occur in either the stress-group nucleus or the stress-group periphery.

Open syllables have the structure C(C)V. The permissible clusters in a strongly stressed (nuclear) open syllable are (a) nasal plus stop or [1] or (b) stop plus $[h l w \gamma]$. An unstressed (peripheral) open syllable allows only stop plus [h]. Examples:

Stressed closed syllables have the structure C(C)(C)VC. The permissible two-consonant clusters are (a) nasal plus stop or $[1 y \gamma h]$ or (b) stop plus $[h 1 w \gamma]$. Three-consonant clusters (c) nasal plus stop plus [h], (d) nasal plus stop plus [1], or (e) stop plus [h] plus [l]; these cannot take a preceding peripheral syllable. Examples:

[pγíim] 'ancient' [ηklά?] 'apple snail'
[phlúη] 'spout' [kaan phlιw] 'young man,
bride'

Weakly stressed (minor) syllables, always closed, have the structure C(C)VC. The closing consonant need not be homorganic with the following nuclear consonant. Examples:

[pmt'pmmn] 'long drum' [thin, 'khúm] 'to kick'
[phĭn,'nóon] 'log' [klumm, 'khúm] 'to tilt'
[thăn'wun] 'in confusion'

Unstressed syllabic (presyllable) nasals have the structure N, and are usually but not always homorganic with the following nuclear consonant. Examples:

[n'lan] 'bald' [n'γυm] 'to shake' [m'pun] 'door'

1.4. Phonemes.

The major elements at the phoneme rank are consonants, vowels, tone, and register.

1.4.1. Consonants.

 $\qquad \qquad \text{The consonant phonemes and clusters may be charted} \\ \text{as follows:} \\$

(a) Simple initials:

(b) Initial clusters - two:

(c) Initial clusters - three:

nch	phl	kh1
	mpl	nk1

(d) Finals:

The stop consonants /p t c k/ in final position have simultaneous glottal closure. In initial position they become voiced following the syllabic nasals /m n η /.

/f/ is found mostly in loanwords. Before /a/ it has the bilabial allophone $[\Phi]$, as in /fan/ $[\Phi]$ 'to teach'.

/s/ has three allophones: [s], [φ], [φ]. In initial position [s] can vary freely with [φ]. In final position only [φ] occurs.

/h/ between two voiced phonemes is voiced, as in /nhoon/ [nfloon] 'rice-steaming kettle'.

The nasals /m n η / have syllabic allophones [m n η] before an initial consonant.

/l/ is phonetically devoiced [1] after an initial voiceless consonant, as in /pl ι ?/ [pl ι ?] 'fruit'. It also has the allophone [r] in final position, varying freely with [1].

In many cases Lamet / γ / corresponds to /r/ in other languages. There is, however, an extrasystematic /r/ in a few words for names of days and years (/rawaaj/, /ruuŋ/, /rap/), presumably borrowed or archaic.

1.4.2. Vowels.

The vowels of Lampang Lamet may be charted as follows. All may occur long or short. There are no high offglides.

i	w	u
Ն	Э	۵
е	Λ	0
ε	a	α

Long vowels may occur in open or closed syllables, but short vowels occur only in closed syllables.

There is an [i] transition between a vowel and a final palatal consonant, as in /pap/ [pa i p].

While [ia] appears in a loan from Northern Thai, the only high offglides that have been found in apparently native words are [wa] and [ua], and these in only three words. This rarity of occurrence would seem to indicate that they are not part of the regular phonemic system.

In my data I have found only three words with nasalization, but these yield a minimal pair and a near-minimal pair with nonnasalized words. Although nasalization is contrastive, its rarity shows that it is not part of the regular system. All three instances precede a final glottal stop:

mã?	'yesterday'	má?	'new, again'
khəmã?	'to sneeze'	khəma?	'shy'

1.4.3. Register and tone.

As has been mentioned, Lampang Lamet has contrastive voice register. My main informant's comments would seem to indicate that tongue tension is at least part of the physical difference. Examples:

kəŋ	'half'	kə́ŋ	'tight'
laac	'lost'	láac	'to untie'
γuh 'g	gauzy, flimsy'	γúh	'to pull'
phəjıı	'visitor'	phəjíı	'to cock a gun'

Tone is not phonemically distinctive. There seem to be three pitches, varying according to the structure of the syllable. Short vowels with final stop or fricative are pronounced with low rising pitch: ?ap \bigvee 'dark'. Long vowels with final stop or fricative are pronounced with mid-level pitch, gliding downward at the end: muus \triangleright 'nose'. Short and long vowels with other final consonants or in open syllables tend to be pronounced with mid-level pitch: ?ím \models 'raw', maa \models 'field'.

2. WIANG PAPAO LUA

2.1. Intonation group.

As in Lamet, there are two contrasting types of intonation contour in Lua: the statement contour and the question

contour.	The	contrastive	contour	starts	at	the	beginning	of	the
final st	ress	group.							

The statement contour is used for ordinary declara-

2.2. Stress group.

The function and structure of stress groups in Wiang Papao Lua are the same as in Lampang Lamet. All types of stress

groups can function in all types of intonation groups.

The structure of the stress group is: $\left\{ \begin{array}{c} \text{unstressed syllable} \\ \text{weakly stressed syllable} \end{array} \right\} + \text{strongly stressed syllable}$

2.3. Syllable.

The Lua syllable types are the same as in Lampang Lamet (see 1.3).

Open syllables have the structure C(C)V. They function both in the strongly stressed and the unstressed positions in the stress group. Unstressed open syllables may have $[\[\[\] \]]$, as $[\[\[\] \]$ their vowel (Lampang Lamet allows only $[\[\[\] \]]$ in this position). Examples:

Closed syllables have the structure C(C)(C)VC. They function in the strongly stressed and weakly stressed positions in the stress group. Weakly stressed closed syllables may have any short vowel. Examples:

Thus the following patterns $\mbox{\sc may}$ be found in stress groups:

These Lua syllable patterns are similar to those of Lampang Lamet (see 1.3) except that in the fourth row Lua allows three main syllable consonants while in the third and fourth rows Lua contrasts three short presyllable vowels.

2.4. Phonemes.

The major elements at the phoneme rank are consonants, vowels, and tones.

2.4.1. Consonants.

The consonant phonemes and clusters may be charted as follows:

(a) Simple initials:

р	t	С	k	?
b	· d			
f	s			h
m	n	ŋ	ŋ	
w	1	j	Υ	

(b) Initial clusters - two:

ph	th		kh			
pl			k1			
Pγ Pj	tγ	cγ	kγ			
- 0			kw			
mp					$m\gamma$	
	nt			nl		
			ŋk	ŋl	ŋγ	ŋj

(c) Initial clusters - three:

mpl		ŋkl
	nth	ŋkh
	ntγ	ŋtγ
		khw

(d) Finals:

р	t	С	k	?
p m	n	'n	ŋ	
w	1	j		
	s			h

The stop consonants $/p \ t \ c \ k/$ in final position have simultaneous glottal closure.

/s h m n l/ have the same allophones as in Lampang Lamet, and these occur in the same positions (see 1.4.1).

2.4.2. Vowels.

The vowels of Wiang Papao Lua may be charted as follows. All except the high offglides may be either long or short. Most words with offglides appear to be loans from Thai.

ia	ша	ua
i	ш	u
е	Y	0
ε	a	ວ

[ϑ] is found in open unstressed syllables, and probably could be considered an allophone of /v/.

As in Lamet and most other Mon-Khmer languages, there is an [i] glide onto final palatals: /pwn/[pwi]n] 'to shoot'.

Nasalization was found with some ten words contrasting with nonnasalized forms in similar environments:

?som	'small pot'	ໃວວກຸ	'crab shell'
hẽew	'abyss'	heeŋ	'cover'2

2.4.3. Tone and register.

There are two contrastive tones: the falling breathy tone, and the normal tone. The former falls from mid-level, and sometimes has perceptible breathiness. The pitch, not the voice quality, seems to be most distinctive at present. Mitani (1965: 28) called it a "quasi-tonal register". The normal tone varies freely between low-rising and mid-level pitch. Examples:

pùk	'rotten'	puk	'hot'
tùm	'ripe'	tum 'fis	shing implement'
γόρο	'intestine'	γρος	'to sharpen'

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²Of a fishing implement.

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NOTE

This paper is a condensation of the author's Mahidol University thesis, which provides detailed discussion and fuller examples together with vocabularies of both languages of some 1,500 items each. Copies may be obtained from the author: 242 Wisutkasat Road, Bangkok 10200.