The Phonology of Lawa

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1. Background information

In this paper the term 'Lawa' is referred to as the language of a tribal group whose population is estimated to be about 9,841 and is concentrated in two Northern provinces, Chiengmai and Maehongsorn. 2 Specifically the Lawa villages are found between Baw Luang, Hot district, Chiengmai province in the East and Maesariang district, Maehongsorn province in the West. These Lawa or, as they call themselves, [lavia], belong to different linquistic groups from the so-called 'Lawa' of Kanchanaburi province, from the 'Lue' (Mal, Thin) of Nan province, and from the 'Lawa' (Chaobon, Nahkur) of Petchabun, Nakorn Rajseema and Chaiyaphum provinces. Historically, the Lawa are the descendants of the powerful Lawa whose kingdom was recorded in the early Northern Thai chronicles. The history of these Lawa has been a subject of discussion by many historians and anthropologists. For example, according to two Thai scholars, Sisawat and Khanthathatbamroong, the Lawa were once the lords of the land in the upper part of the Golden Peninsula before the southward migration of

the Thai race from China. 5 Gordon Young mentioned a story told to him by a great Wa chieftain who claimed that his people had journeyed thousands of years ago northward along the Mae Ping river and settled for a long time in what is now Chiengmai valley*. 6 Princess Viphavadee Rangsit believed that the Lawa once had attained a state of civilization whereby human society consisted of classes. The belief was based on her discovery in 1969 when she visited the Lawa village of Umphai in Chiengmai province where it was found that the Lawa community actually consists of four classes, i.e., (1) The saman (royal blood), (2) the lam (mandarin), (3) the koyit (sorcerer and shaman) and (4) the ordinary lavia. Besides, from her observation of the crocodile motives carved on the pillars of an ancient ceremonial pavillian in that village together with the saman's use of fish as their herald, she advanced the theory about the sea origin or the northward migration of the Lawa*.8

Linguistically speaking, the Lawa language belongs to the Palaungic branch of the Mon-Khmer family in the Austroasiatic Phylum. The Lawa language described in this paper is the one spoken in Ban Pa Pae village [yuəŋ pɛ], Maesariang district Maehongsorn province. The Institute of Language and Culture for Rural Development, Mahidol University has been working on this language since 1974 with the purpose of compiling a Lawa-Thai and Thai-Lawa dictionary which will be published very soon.

Ban Pa Pae village, 1 situated in Ban Pa Pae, Tambon Mae Sariang, Mae Sariang district, Maehongsorn Province, consists of 284 Lawa living in 54 households. The majority of the population are animistic Buddhists and accept the saman as their leaders. Christian missionaries came to the village 20 years ago and converted a small number of the Lawa. Perhaps the greatest contribution by those missionaries to the Lawa was the introduction of the Roman and Thai alphabets as the means of writing Lawa. 12 As a result, the Lawa have been using these alphabets in their daily correspondences including the writing of the lesem 18 poetry. Even if the widespread written language introduced by these missionaries was based on the pronunciation of people from another village, Ban La-up, the Ban Pa Pae people have no difficulty in using it as an effective means of correspondence because they know the systematic sound correspondence between the pronunciation of Ban La-up and their own. The phonological description in this paper is based on the pronunciation of the authors' principle informant, Khun Bunphob Bo?bi, age 33.

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2.1 The Intonation Group

There are 2 Intonation Group types in Lawa:

2.1.1 The Statement Contour

This is used in ordinary statements, negatives and imperatives. Its pitch is mid level.

"It is delicious'

kuən som 'aop 'A child eats rice'

2.1.2 The Question Contour

This is marked by a rising pitch on the last syllable of the utterance.

"Is it delicious?'
kuən som 'aop 'Does a child eat rice?'

2.2 The Stress Group

Lawa Stress Group has one or two syllables. Only loanwords from Thai may have three syllables (for example: [nali'ka] 'watch'). Each Stress Group has as its nucleus one stressed syllable, which always occupies the final position in the group. As its periphery, it has one weakly stressed or unstressed syllable. Its structure is (W)S:

'paŋ 'bottle'
lə'pat 'to flow'
si'cai 'in a hurry'
γu'γi 'to swing'
tuŋ'liŋ 'to hang, to cling to'
sɔt'sɛ 'naughty'
'?ɔ??əih 'thing, whatever'

(The symbol ['] is used to mark a stressed syllable, [] a weakly stressed syllable, and [] (no symbol) an unstressed syllable).

2.3 The Syllable

2.3.1 Structure

There are 2 types of syllable set up on the basis of their structure : an open syllable and a closed syllable.

2.3.1.1 Open syllable: C(C)V(V)(V)

There are 6 sub-types:

CV : lace 'to quarrel'

CCV : ^mbje 'to cook'

CVV : "biə 'to forget'

CCVV : mbluə 'small'

CVVV : laiɛ 'both sides'

CCVVV : klaie 'to stir'

2.3.1.2 Closed syllable: C(C)V(V)(V)C

There are 5 sub-types:

CVC : "dak 'tongue'

CCVC : mbjon 'horse'

CVVC : k^hiət 'to bite, to pretend'

CCVVC : pləi? 'fruit'

CVVVC : naie? 'sound made by buffalo'

2.3.2 Function

There are 2 main classes of syllables in terms of their function in the Stress Group: a nuclear syllable and a peripheral syllable.

2.3.2.1 Nuclear syllable

This is stressed, and functions as the nucleus of the Stress Group, and always occupies the final position. This syllable type can be either an open or closed syllable, and it may be called the "major syllable".

'heo 'to go'
le'mosc 'graveyard'
teh'ta? 'thunder'

2.3.2.2 Peripheral syllable

This functions as the periphery in the Stress Group.

It can be sub-divided into two sub-classes: a weakly

stressed syllable and an unstressed syllable.

2.3.2.2.1 Weakly stressed syllable

Syllables of this sub-class are either of the open or closed types, and always occupy the first position. This type may be called the "minor syllable".

'me''mak 'very poor'
put'pst 'to sneak away quickly'

2.3.2.2.2 Unstressed syllable

Syllables of this sub-class are of the open syllables and always occupy the first position. This type may be called the 'presyllable'.

2.4 The Phoneme

There are 2 major classes of phonemes according to their function in the syllable: consonants and vowels.

2.4.1 The Vowels

Lawa vowels function as syllable nucleus, and consist of: $/i \,\, e \,\, \epsilon \,\, \dot{\textbf{t}} \,\, w \,\, \textbf{a} \,\, \textbf{u} \,\, \textbf{o} \,\, \textbf{o}$

/sia sc ic io iu oa ta ia ca oe te ie eu et ei

Two subclasses of vowels are set up according to their function in the syllables: vowels in open syllables and vowels in closed syllables.

2.4.1.1 Vowels in open syllables

They function in open syllable type C(C)V(V)(V). In presyllable type CV, only /i,ə,u/occur. In other open syllable types, almost all the vowels occur, except /pi/.

<u>si</u> cai	'in a hurry'	<u>lə</u> mo?	'dream'
<u>tu</u> tai	'soft (cloth)'	$\mathtt{t}^{\mathrm{h}}\mathtt{i}$	'clear'
γuə	'a fly'	həi	'this'

2.4.1.2 <u>Vowels in closed syllables</u>

They function in closed syllable types C(C)V(V)(V)C, and consist of all vowels.

2.4.2 The Consonants

Lawa consonants function as syllable-periphery. There are 37 consonant phonemes:

These consonants can be divided into 3 subclasses in terms of their distribution: single initial consonants, consonant clusters and final consonants.

2.4.2.1 Single Initial Consonants

These consonants function in syllable-initial position and consist of all the consonants.

The correlation between single initial consonants and vowels is shown in figure 1.

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The correlation between single initial consonants and vowels (1600-word data)

occurring

non-occurring

2.4.2.2 Consonant Clusters

These function in syllable-initial position, and consist of /pl p^hl mbl kl k^hl $^\eta gl$ pj p^hj mbj kj k^hj $^\eta gj/$

The correlation between consonant clusters and vowels is shown in figure 2.

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(1600-word data)

Figure $\underline{2}$ The correlation between consonant clusters and vowels.

			_
V	occurring	[-	non-occurring

2.4.2.3 Final Consonants

These function in syllable-final position, and consist of /p t c k $\,^{?}$ h m n $\,\tilde{n}$ $\,\eta/$

 $\begin{tabular}{ll} The correlation between final consonants and vowels \\ is shown in figure 3. \\ \end{tabular}$

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(1600-word data)

Figure 3 The correlation between final consonants and vowels

V	occurring	-	non-occurring

2.4.3 Phoneme Charts

2.4.3.1 The Vowel Charts

Lawa has 10 simple vowels and 15 complex vowels. The complex vowels consist of 14 diphthongs and 1 triphthong.

2.4.3.1.1 Simple Vowel Phonemes

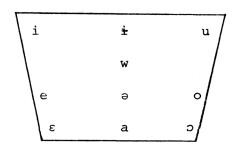


Figure 4 Simple Vowel Phonemes

2.4.3.1.1.1 Formational Statements of Simple Vowels

/i/ [i] a high spread front vowel.

/e/ [e] a mid spread front vowel.

 $/\epsilon/$ [ϵ] a low spread front vowel.

 $/\dot{\textbf{r}}/$ [$\dot{\textbf{r}}$] a high spread central vowel.

/w/ [w] a higher-mid spread central vowel.

/ə/ [ə] a mid spread central vowel. /?əŋ/ 'he, she, it, they' /a/ [a] a low spread central vowel. /ha/ 'from' /u/ [u] a high rounded back vowel. 'to debate' /fu/ /o/ [o] a mid rounded back vowel. /20/ 'not' /b/ [b] a low rounded back vowel. 'fire' /ŋɔ/ 2.4.3.1.1.2 Simple Vowel Contrasts /i/ **-** /e/ /mbiñ/ 'mud' /mben/ 'white' /p^hit/ 'sticky' /i/ - /i/ /p^hit/ 'to drop (into a hole)' /kət^hin/ /i/ - /w/ 'a kind of tree' /t^hwn/ 'shelf' /e/ - /ε/ /γeh/ 'to pour' /γεh/ 'root' /e/ - /w/ /tek/ 'to press' /twk/ 'to be stuck' /e/ - /ə/ /ñe[?]/ 'pin' /ñə[?]/ 'final particle showing emphasis'

/ε/ - /a/	/ñe [?] /	'cucumber'
	/ñə [?] /	'before, at, place'
/±/ - /w/	/tik/	'at the most'
	/twk/	'to be stuck'
/ i / - /ə/	/?±ŋ/	'bullfrog'
	/ [?] əŋ/	'he, she, it, they'
/±/ - /u/	/ñ±/	'to clean (body)'
	/ñu/	'wax'
/w/ - /ə/	/kwt/	'to bar, to obstruct'
	/kət/	'to be born'
/w/ - /u/	/wŋ/	'to feel lonely and nostalgic'
	/vuŋ/	'to throw'
/w/ - /o/	/cwŋ/	'to dance with weapons'
	/con/	'corner'
/ə/ - /a/	/sə/	'will, shall'
	/sa/	'basket'
/ə/ - /o/	/sə/	'will, shall'
	/so/	'to pour'
/a/ - /ɔ/	/ŋa/	'flat in taste'
	/ŋɔ/	'fire'
/u/ - /o/	/ [?] u/	'to speak'
	/20/	'not'
/0/ - /0/	/pho?/	'to suck'
A Passive the Bellin	/pho?/	'pack'

2.4.3.1.2 Complex Vowel Phonemes

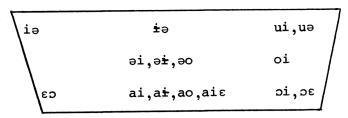


Figure 5 Complex Vowel Phonemes

2.4.3.1.2.1 Formational Statements of Complex Vowels

2.4.3.1.2.1.1 Diphthongs

2.4.3.1.2.1.1.1 Rising Diphthongs

/əi/ [əi] a mid spread central vowel to a high spread front vowel.

/yəi/ 'thin'

/ai/ [ai] a low spread central vowel to a high spread front vowel.

/?mai/ 'with'

/coi/ 'to turn (a way)'

/pi/ [pi] a low rounded back vowel to a high spread front vowel.

/poic/ 'to take off'

/əɨ/ [əɨ] a mid spread central vowel to a high spread central vowel.

/?ləi/ 'a kind of squirrel'

/a±/ [a±] a low spread central vowel to a high spread central vowel.

/pai/ 'blue'

/ao/ [ao] a low spread central vowel to a mid rounded back vowel.

/kao/ 'ten'

2.4.3.1.2.1.1.2 Level Diphthongs

/ui/ [ui] a high rounded back vowel to a high spread front vowel.

/thui/ 'to buy'

/əo/ [əo] a mid spread central vowel to a mid rounded back vowel.

/pao/ 'to fly'

/ερ/ [ερ] a low spread front vowel to a low rounded back vowel.

/khjso/ 'to chew'

/se/ [se] a low rounded back vowel to a low spread front vowel.

/ndos/ 'orphan'

2.4.3.1.2.1.1.3 Falling Diphthongs

/iə/ [iə] a high spread front vowel to a mid spread central vowel.

/ciə/ 'tale'

/±ə/ [±ə] a high spread central vowel to a mid spread central vowel.

/phia/ 'coconut'

/uə/ [uə] a high rounded back vowel to a mid spread central vowel.

/kuə/ 'softly'

2.4.3.1.2.1.2 Triphthong

/ais/ [ais] a low spread central vowel to a high
spread front vowel, to a low spread front vow
/klais/ 'to stir'

2.4.3.1.2.2 Simple and Complex Vowel Contrasts

/a/ - /ao/	/hak/	'skin'
	/haok/	'to be up'
/s/ - /si/	/sə?oh/	'dry' wast.
	/?pih/	'to swell'
/ɔ/ - /ɔɛ/	/sɔ/	'to wake (someone) up'
	/sce/	'to vibrate'
/iə/ - / i ə/	/ ^m biə/	'to forget'
	/ ^m b ± ə/	'because'
/ ± ə/ - /uə/	/p ^h iə/	'coconut'
	/p ^h uə/	'to complain'
/əi/ - /ə ± /	/laih/	'down!
	/lə ± h/	'to answer'
/əi/ - /ai/	/ [?] əi <i>c</i> /	'taro'
	/?aic/	'to lay down'
/əi/ - /oi/	/?əic/	'taro'
	/?oic/	'to be used up'
/əi/ - /əo/	/pə±h/	'to pluck (a stringed instrument)
	/pəoh/	'to throw away'
/ə±/ - /a±/	/γə±t/	'brave'
	/γa i t/	'curled up'
/əo/ - /ao/	/cəop/	'to darn (mend)'
	/caop/	'to wear'
/ai/ - /a i /	/taih/	'mushroom'
	/ta i h/	'milk, breast'

/ai/ - /ɔi/	/haic/	'to scratch'
	/hoic/	'to arrive, to come'
/a i / - /ao/	/ka±/	'wind, storm'
	/kao/	'ten'
/ui/ - /uə/	/vui/	'shade'
	/vuə/	'to singe, hold over a flame'
/ui/ - /oi/	/k ^h uic/	'to feel nauseated'
	/k ^h oic/	'to scrape'
/oi/ - /oi/	/hoic/	'to be used up, to finish'
	/haic/	'to arrive, to come'
/si/ - /se/	/?pih/	'to swell'
	/ ⁹ γοεh/	'finger'
/ai/ - /aiε/	/lai/	'to calk'
	/lais/	'both side'

2.4.3.2 The Consonant Chart

Lawa has 37 consonant phonemes, as shown in the following chart:

	Points o	of articulation	bilabial	labio-	alveolar	palatal	velar	glott-
Manners of			1832 - De 1	dental		1 1 1 1		al
I I I I I I I I I I I I I I I I I I I		voiceless unasp	p		t	С	k	7
		voiceless asp.	ph		th	ch	k ^h	
	Oral	voiced	b		,	j		
Stops		prenasalized	mb		n _d	ñc	ŋg	i,
of Change Control		preglottalized			, 4]	²j		
		voiced	m		n	ñ	g	
	Nasal	voiceless	hm		hn	hñ	hŋ	
		preglottalized	, °m		² n	?ñ	σς	
		voiceless	end Pond	f		100		h
Fricatives	Slit	voiced		v a s v			Υ	
		preglottalized		814g			ا م	
	Groove	voiceless	1		s			
		voiced			1			
Laterals		voiceless			h1	j.ô		
		preglottalized		\ \^\frac{1}{2} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	71		1	

Figure 6 Consonant Chart

2.4.3.2.1 Formational Statements of Consonants

- /p/ [p] a voiceless unaspirated bilabial stop
 /pok/ 'male'
- /p^h/ [p^h] a voiceless aspirated bilabial stop
 /p^hin/ 'to be able'
- /b/ [b] a voiced unaspirated bilabial stop
- /mb/ [mb] a voiced bilabial prenasalized stop
 /mbo?/ 'to add'
- /t/ [t] a voiceless unaspirated tip-alveolar stop
 /tan/ 'pen (for animals)'
- /th/ [th] a voiceless aspirated tip-alveolar stop
 /than/ 'pitfall'
- /nd/ [nd] a voiced tip-alveolar prenasalized stop
 /nda?/ 'to sprinkle'
- /c/ [c] a voiceless unaspirated fronto-palatal stop
 /ce/ 'to expose (to light, air)'
- /c^h/ [c^h] a voiceless aspirated fronto-palatal stop
 /c^he/ 'unstable, unsteady'
- /j/ [j] a voiced fronto-palatal stop
 /j±ə/ 'easily'
- /nc/ [nc] a voiced fronto-palatal prenasalized stop
 /nciton/ 'before time'

```
/<sup>?</sup>j/ [<sup>?</sup>j] a fronto-palatal preglottalized stop
         /?jiən/ 'excrement'
/k/
      [k] a voiceless unaspirated dorso-velar stop
                          'to discuss'
        /ke/
      [kh] a voiceless aspirated dorso-velar stop
/kh/
      /khe/ 'to cut (by climbing onto the
                          things that will be cut) '
/\eta_{\rm g}/
     [\eta_g] a voiced dorso-velar prenasalized stop
         /ŋgoŋ/ 'a roll'
/<sup>?</sup>/ [<sup>?</sup>] a glottal stop
      /?aic/ 'to lay down'
/m/ [m] a voiced bilabial nasal
           /mε/ 'again'
/hm/ [hm] a voiceless bilabial nasal
           /hme?/ 'fowl louse'
/<sup>?</sup>m/ [<sup>?</sup>m] a preglottalized bilabial nasal
           /<sup>?</sup>mε/ 'saliva' *
/n/
      [n] a voiced tip-alveolar nasal
       /ne<sup>?</sup>/ 'flesh'
/hn/
      [hn] a voiceless tip-alveolar nasal
            /hnan/ 'necklace'
/?n/ [?n] a preglottalized tip-alveolar nasal
           /<sup>?</sup>ne<sup>?</sup>/ 'a kind of hat'
/n/ [n] a voiced fronto-palatal nasal
                   'to clean (body)'
            /ñ±/
```

```
/hm/ [hm] a voiceless fronto-palatal nasal
                         'to contract'
           /hnit/
/?n/ [?n] a preglottalized fronto-palatal nasal
        /?ñ±/
                         'to warm at the fire'
      [n] a voiced dorso-velar nasal
/n/
         /na/
                         'flat in taste'
/hn/ [hn] a voiceless dorso-velar nasal
                         'virgin, fresh'
           /hna/
/'n/ ['n] a dorso-velar preglottalized nasal
            /?na/ 'twenty'
      [f] a voiceless labio-dental fricative
/f/
            /fiah/ 'final particle showing emphasis'
      [v] a voiced labio-dental fricative
/v/
           /vieh/ 'wide'
/s/
      [s] a voiceless tip-alveolar fricative
            /saic/ 'to be astringent (in taste)'
/γ/
      [\gamma] a voiced dorso-velar fricative
            /γεn/ 'to keep'
     [<sup>?</sup>γ] a dorso-velar preglottalized fricative
/<sup>?</sup>γ/
            /<sup>?</sup>γεn/ 'diligent'
      [h] a voiceless glottal fricative
/h/
            /hsn/ 'to be careful'
/1/
      [1] a voiced tip-alveolar lateral
            /1 ch/
                         'six (6)'
```

/hl/ [hl] a voiceless tip-alveolar lateral

/hlɛ/ 'a bottle gourd'

/?l/ [?l] a tip-alveolar preglottalized lateral

/?lɛ/ 'to tease'

2.4.3.2.2 Consonant Contrasts

```
/c^{h}/-/\tilde{n}_{c}/
              /ncuə/ 'land'
/j/ - /<sup>2</sup>j/
                           set sate 'to know' e land t
                /jon/
                /?jon/
                                'to suspect' \3
                                    'to pull'
/j/ - /ñ/
                /jiəŋ/
                                    'strand, line'
                /ñiəŋ/
     -/k^h/
                                    'to scoop together'
                /kuət/
/k/
                                    'to want; to be old, dark(colour)'
                /k<sup>h</sup>uət/
      - /ŋg/
                                    'to untie'
                /kah/
/k/
                                    'to be unfastened'
                /\gah/
                                    'cucumber'
/k/ - /^{2}/
                /ke/
                /3°/
                                    'hen'
/ŋg/ - /ŋ/
                                    'barn'
                /mgeom/
                                    'to distill (to get liquor)'
                /neom/
                                     'to lay down'
                /?aic/
/^{2}/-/h/
                                     'to scratch'
                 /haic/
                                     'to wait'
/m/ - /hm/
                 /mon/
                                     'to listen, to hear'
                 /hmon/
      - /^{2}m/
                 /ma<sup>?</sup>/
/m/
                                     'mother'
                 /<sup>?</sup>ma<sup>?</sup>/
                                     'to be broken'
/m/ - /n/
                 /ma<sup>?</sup>/
                                     'mother'
                 /na<sup>?</sup>/
                                     'sour'
/hm/ - /?m/
                 /hmo?/
                                     'lung'
                 /^{9} \text{mo}^{9} /
                                     'rope; bulb'
```

```
/^{2}m/ - /^{2}n/
                  \log m^{\circ}
                                      'to be round; fruit'
                  /oen<sup>9</sup>/
                                      'a moment'
/n/ - /hn/
                  /nan/
                                      'woman' (Th.)
                  /hnaŋ/
                                      'necklace'
      -/^{n}
                  /nəo/
                                      'to hit (by using a piece of wood'
                  /<sup>?</sup>nəo/
                                      'a moment'
/n/ - /ŋ/
                  /na/
                                      'to spread out'
                  /ŋa/
                                      'flat of taste'
/n/ - /hn/
                  /ñi/
                                     'to clean (body)'
                  /hñi/
                                      'to contract'
/\tilde{n}/ - /\tilde{n}/
                  /ñɨəh/
                                      'to laugh'
                  /<sup>?</sup>ñiəh/
                                      'to tear apart'
/\tilde{n}/ - /\tilde{n}_{C}/
                  /ñiəh/
                                      'to laugh'
                  /nciəh/
                                      'to pierce'
                  /ñan/
                                      'a kind of thing which has
/ñ/ - /n/
                                      supernatural powers'
                                      'to look up'
                  /ŋan/,
/h\tilde{n}/ - /\tilde{n}/
                  /hñi/
                                       'to contract'
                  /<sup>?</sup>ñ±/
                                       'to warm at the fire'
/^{2}\tilde{n}/ - /^{2}\eta/
                                       'slippery'
                  /<sup>?</sup>ñuə/
                                       'thirty'
                  /<sup>?</sup>ŋuə/
/\eta/ - /h\eta/ - /^{2}\eta/
                                       'flat of taste'
                 /ŋa/
                                       'virgin, fresh'
                  /hŋa/
```

'twenty'

/[?]ŋə/

```
/f/ - /v/ /fiək/
                        'dark'
                       'abdomen, intestine'
            /viək/
/f/ - /s/ /fa/ 'to be acquainted easily','to be social
                      'basket'
             /sa/
/s/ - /h/ /sa<sup>?</sup>/
                       'morning'
             /ha?/ 'to be burned'
/\gamma/ - /^2\gamma/ - /h/
             /γεn/ 'to keep'
            */<sup>?</sup>γεn/
                       'diligent'
             /hɛn/ 'to be careful'
/1/ - /h1/ /lon/
                      'black'
             /hlon/ 'cool'
/1/ - /^2l/ /lɛn/ 'to look; to look after'
            /?len/ 'to throw away'
/hl/ - /?l/ /hl\epsilon?/ 'rain, to rain'
             /?le?/ 'a kind of climbers'
```

3. Lawa-English Glossary

The following is a Lawa-English glossary, consists of Lawa words in phonemic transcription, followed by their English equivalents. The Lawa is listed from simple vowels to complex vowels as follows:

i e ε ± w ə a u o ɔ

ei ai oi oi e ± a ± eo ao ui εɔ ɔε iə ± e uə aiε

Vowels with no final consonants come first, and are followed by vowels with final consonants: p t c k $^{?}$ h m n \tilde{n} η respectively.

	osa o postania in territoria.		
respectively.			
p ^h i	person; he, she; ghost (Th.)	vit	to defecate
t ^h i	clearly;a singleton	ləvit	to meet, to join
ci	to thrust, to pierce	sit	to swing, to give an
ləci	screw		injection (Th.)
k ^h i mui	thief	kik	odd (number)
vi	to fan	ləphi?	clothes
si	colour (Th.)	thi?	one; a moment
si cai	hurried	ŋgo? t ^h i?	the day before yesterday
γu γi	to swing	$sat^h i^{?}$	the day after tomorrow
[?] mok li	cigarette	n _{di} ?	together; each other;
ⁿ dip	slope, hillside		not yet
γip	hurried (Th.)	sə ⁿ di?	near
pit	poison (Th.)	p^h ih	to chant (prayers);
^h it	sticky; wrong (Th.)		to speak very quickly
₃əp ^h it	stingy	k^{h} ih	salt; to give birth
:it	co stick (Th.)		to (an animal)
səŋe [?] van tit	Sunday	$\eta_{ ext{gih}}$	to incline
_{Pək} hit	matches	nih	just a moment
∍ngit	to pour slowly	m _{biñ}	mud *ates
it	a word signifying completion of an	mbjiñ	same, equal

 $\mathtt{c}^{ ext{h}}$ i $ilde{ ilde{n}}$

1əbe

action,already

knife (Th.)

it

khe? to find; a

to turn (a way)

to sew

m_{ble}	a bracelet (for hands)	lək ^h e?	after; the last
^m bje	to cook; to make sth.	°e?	we; I (poetic word)
	carefully; decorate	ləme?	man; husband; sugar cane
te	that; final particle showing command	ne?	flesh
n _{de}	sweet	ko? ne?	kinsman
ləce	to quarrel	səŋe [?]	sun; day, daytime;
$c^{h_{ extsf{e}}}$	unfirm		classifier of knife
ke	to debate	ve?	left (side)
?me ?mak	very poor	hle?	rain, to rain
hne	happy, contented	peh	to pick
kətet	papaya	lə [?] eh	today
vec	sword	[?] neh	dry; lean, thin
tek	to press	kəseh	under; south
pje?	hot (taste); to start	γeh	to pour
h	(a fire)	cen	lifelong
p ^h je?	forest; land for planting; weather	p ^h eñ	white
kəp ^h je?	outside	^m beñ	<pre>white (used with elepha garlic,eagle,ginger,mil</pre>
te?	<pre>he,she,it; hand,arm; great grandfather; soil</pre>	lə v eñ	jealous
ko? te?	body, oneself	phen/phlen	song (Th.)
		p ^h aŋ keŋ	trouser (Th.)
pho? te?	each other	[?] leŋ	bell
kəte?	basement, cellar	pjε	hail
səte [?]	eight	kε	cucumber; old (Th.)
1əte [?]	eighty	?ε	hen
je?	great-grandmother	[?] γε	forehead
kle?	lazy	hε	bee; mineral (Th.)
khe?	to find; after	?1e	to tease

?1ε

to tease

ket .	to expect	t±k	most, used to indicate the superlative degree
vet	to surround	c ^h ik	a paddy field
pjεh	to blow	ləp ^h ±m	garden
cεh	to tear	t ^h im	ripe
ñcεh	to be torn	ŋ _{gim}	under, beneath
lə ^ŋ glɛh	sixty	ñ±m	delicious
?eh	<pre>to get; to get married; (sth.done by)oneself</pre>	pin,pin ?ak	bow
?ŋεh	to dress	$\mathtt{p}^{\mathbf{h}_{\overset{\bullet}{=}\mathbf{n}}}$	able
γεh	root; precocious	n i η	at, in, on, in the middle
lεh	six		of,among,with,by,from; -ing;which
[?] alɛh	seven	k^h wp	false
sem	Thai	?w?	yes
γεm	to cut (grass)	səmə	straight
[?] men	to massage; to press	Sə	will, shall
γηεn	quarter	təh ta?	thunder
γεn	diligent	? _Ə ŋ	it, he, she
nen	careful	n _{da}	long
len	to look, to look after	ka	to roast; before; at;
⁷ len	to throw away	•	place
?ñ i	to warm (oneself)	ləka	in front of
ph <u>÷</u> t	to drop (sth. in a hole)	k ^h a	to kill; to torture
ləp ^h ± t	a digging tool	lə [?] a	two
ⁿ b ± t mam	how many, how much		
lət ^h ±t	to bump against	səma	to plant; to beg pardon
٠	94.0°	°ma ·	plantation; to go to a plantation
i			

•

er na ibai co i	tasteless	ka?	fish
to? səŋa	curry	kja?	way, road
[?] ŋa	twenty	ma?	mother
sa	basket	?ma?	to be broken
ha	from; (more, less) than	ləŋa?	sesame; to play
mənat	pineapple	sa?	morning; to abuse; to yell
sənat	gun		co yell
sat	mat; animal (Th.)	γa [?]	big; many; loud
hlat	to be fearful	ha?	to be burnt
		la?	to place; to give;
bak	frog		to divorce; for; at
ndak	tongue; steep slope	hla?	leaf
kak	branch (of tree)	n _{dah}	if
kjak	buffalo	kah	to loose
səkjak	red	[?] ah	to say, to speak
mak	to cut(grass);	mah	to be, to be called
	to harvest	[?] am	(question particle)
ləmak	sickle; knife for cutting grass	mam	what; whativer
səmak	areca	hnam	blood
γak	to cry; to love (Th.)	γ am	to be rotten
lak	direction	kan	work
pa?	you	ŋan	to look up
səpa?	cheek	pjaŋ	roof; to make a roof
ta?	<pre>grandfather, old man; to intend</pre>	klaŋ	eagle
	to miteria	sə [?] aŋ	bone
ca?	ashes; stove	[?] maŋ	empty
səta?	tail; to intend		
		naŋ s i	book (Th.)

ian lom	spider	pho?/pho? te?	to each other
saŋ	elephant (Th.)	ləpho?	spirit, soul
^h u	stomach; mountain	bo?	edge
[?] u	to speak	sət ^h o?	silk
iu∕กัu hε	wax	kuən ndo?	child; how many
γα γί	to sling	cho?	to sell; old(things)
luk plak	a flash of lightning	g jo [?]	without; to see, to find
h _u ?	younger sibling	ko?	body; self; root (of
uh	to do, to make; of	.' 	plants); animal
hum	who	ləko?	milled rice; dove
h _{um}	where	kh _O ?	tree; wood
mı	to die; a dead man	khjo?	new
¹ um	owner	ŋgjo?	to divide
າກ	to throw away	səmo?	stone
,	don't!	ləmo?	dream; to dream
₇ o	shallow	hmo?	lung
)	not	? _{mo?}	rope; bulb
)		ño?	to drink
i ho	to pour	som ño?	to get married
[?] op	corn	ləhŋo? la?	to tell
	hot (weather)	so?	to be sick; to be
k .	male		painful
ok	to be right	⁹ γο ⁹	deep
ok	to ride (a vehicle)	lə [?] lo [?]	to stop, to rest
lok	male elephant	poh	to open
tok	somewhere	ləploh	to change
ok/ [?] mok li	cigarette	toh/lətoh	to meet
			The fire

ndoh	to put; a bonfire	səlo	to put
coh	to use	kot	cold
lə [?] oh	loud	ləŋɔt	lonely; quietly
voh .	to build	[?] ŋɔt	<pre>to listen; to obey; to think</pre>
γoh	to bark; same	tok	to be alike
hloh	to get, to gain	sətək	to teach
19mbom	mouth	kok	to call; basket
som	to eat	727	bamboo
ləp ^h oŋ	word; speech		to vomit
bon	strong	ha?ɔ?	
mboŋ	stairs	hŋɔ?	paddy; paddy tree
ndoη	pot	່ຶ່ງມ່ວ _ິ	mad; most
con	corner	so?	dog
		ka± lo?	storm
choŋ	to stand	ndoh la?	to think of
jon	to know	na?oh	wherever
kloŋ	stream; river	sə [?] ɔh	dry; two days after
ŋgjoŋ	to carry		tomorrow
[?] oŋ	he,she,it;	tom	egg; drop(of water)
	to stop	mcb^n	right (side)
[?] noŋ	only	mcv	hat
до д	knee	phon	five
ləvoŋ	banana tree	hmon	listen; to hear
γοη	first	lon	black
to:	to run; to flee		sky
?5	elder sister	mələŋ	
°o °eih	thing	hlon	cool; open-air
ກຸວ	fire	təi	to light (a lamp)
.		•	

MERKER		- 2	<i></i>	
William State State	ŋgo? ?nəi	yesterday	[?] ŋai	eye
090000000000	soŋəi	yellow,orange(colour)	lai luəŋ	story
	γəi	thin	ləlai	when, at the time of
	həi	this	səkaip	narrow
	nə həi	here	γaip	grass
	kləip	shoulder	klaic	fast, quickly
	Paic	taro	[?] aic	to lay down
	ləic	pig	maic	good, beautiful; must
	hləic	iron	hmaic	sand
	pləi?	fruit; areca	pjaim	old, former
	k^{h} əi?	moon; month; firewood	lətaim	ninety
	səi?	louse	ncaim	ring
	n _{dəih}	to kick	hmaim	finger nail
	cəih	to pierce(an abscess)	saim	bird
	$ ilde{n}_{ extsf{ceih}}$	to be blown out (an abscess)	paiñ	to catch; to hold
	p ^h i kjə i h		coi	to turn (a way)
	b.r rlam	<pre>girl; sweetheart (female)</pre>	koi	to be used to
	ləih	down	pjoic	wing
	məiñ	to count	mbjoic	chili
	[?] ləi n	long(time)	poiñ	to fire at
	səpai	nearly, mostly	kloiñ	to be fat
	k ^h jai	gold	^{kh} joiñ	every
	səmai	to notice	ŋgoiñ	to chew
	hmai	very poor	sə [?] oiñ	snake
	[?] mai	with	sə [?] moiñ	lepark brance rate hate hate
	kənai	inside	ficaic	Pointed Hisd

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koic	sun light; hot	ta <u>÷</u> h	breast; milk
ŋgɔic	sun light	lə [?] a±h	fat; oil
[?] moic	ant	maih	nose
hoic	reach, come	ləma i h	few, little
[?] loiñ	to be at the end of	ka±ñ	head
mblə±t	to swallow(liquid)	ləha i ŋ	sweat
sə i t	to pick up	ləlaɨŋ/laɨŋ	among, at the middle of
γə i t	to be brave	pəo	to fly; to bail(water)
kə±h	to cook	m _{D O O O O}	to swing
lə [?] mə i h	to wake up	ñŧə?təo	no more
lə ± h	to answer	hmeo	friend
ləpə i n	woman, wife, female	[?] nəo	a moment
sətə i n	slowly	pəok	to break
hə i n	many	^m bəok	to be broken
[?] ə ± n	return, come	məok	cow, bull
k ^h jə ± η	things; clothing	sə [?] əom	rotten
paż	blue	γeom	to help
ka i	wind, storm	lələom	to fall down
η _{ga}	because	təoŋ	to boil
ma i	money	γəοη	horn
[?] a±t	to stay	kao	ten
[?] ma i t	smoke	kjao	barn
hŋa i t	to smell	ŋao	stupid (Th.)
hla i t	deaf	caop	to put on, to wear
ləpa i k	bridge	[?] aop	cooked rice
ha±k	hair	səŋaop	tomorrow
?a±?	I had	ləkjaok	clothes

		- 301 -	
naok	full	үэгһ	to choose
pə ^γ γaok	forest	rsch	finger
phaom/ləphaom	heart	[?] loeh	loud; sound (of non-
[?] aom	to feel		animate)
lə [?] aom	water	m _{biə}	forget
naom	urine	t ^h iə	flower; cotton tree
ŋaom	to sit	ciə	fable; tale
saom/ləsaom	night	chiə	to sing
haom	to bathe	ləviə	tiger
paon	four	pə [?] liə	now
ləpaon	forty	$\mathtt{k}^{ ext{h}}$ iət	to bite; to pretent
kjaon	neck	$\mathtt{p}^{ ext{h}}$ i k $^{ ext{h}}$ iət	mosquito
		[?] jiək	elder brother
səŋaoŋ	red	\mathfrak{g}_{gi}	worm
hlaon	high	fiək	dark
^{ph} ui	he,she; person; anybody	viək	abdomen; intestine
^{zh} ui	to buy, toget	liək	enter
$ ho^{ m h}$ ui c	at the end of	p ^h liəh	spear
\$ EO	glass (of water) (Th	.Pñiəh	little
:εɔ [?]	small	$t^{h}i$ əm	low
3cb ¹	orphan; lips	$\mathtt{c}^{\mathtt{h}}\mathtt{i}\mathtt{f e}\mathtt{n}$	heavy
3C.	to have; to be rich; cotton; needle	pliəŋ	strong, energetic
'mɔɛ	axe	$m_{ ext{bieq}}$	tooth
'nοε	talkative	^m bjiəŋ	same (size, length)
' ⊃ ε	hundred (Th.)	jiəŋ	to pull deifi
ələs	tamarind	[?] jiəŋ	feces; to shit
эзсте	graveyard	ñiəŋ	thread asib meins
**		[?] ŋiəŋ	short

hiəŋ	clever	j±∍m	to cry
ph≟ə	coconut	ñiəm	when, at the time of
$m_{\dot{\mathbf{b}}\dot{\mathbf{t}}\partial}$	because	c ^h iən	to pick
t ^h iə	duck	puə	to ask for; to borrow
c ± ə	to believe (Th.)	$p^{h_{u_{\vartheta}}}$	to mutter, to complain
chiə, ñciə	far	$c^{h_{\mathbf{u}\mathbf{a}}}$	to flow
[?] j i ə	medicine; tobacco	kuə	slowly, softly
m±÷ə	time, when	lə [?] uə	three
phak ñ i ə	vegetable	ñuə	waist
k ^h iət	rough	[?] ñuə	slippery
$n_{d = 0}$	to fry	γηuə	thirty
k ^h l i ək	to lick	γuə	a fly
[?] ñ ± ək	to mix	buət	to rub, to clean
v i ək	big worm	lə ^m buət	eyedrops
ph i ə?	father	\mathtt{c}^{h} uət	shy
m _{bliə} ?	to let	khuət	to want; old; dark
j ± ə?	father's mother		(colour)
	mother's mother	γuət	to embrace
j±ə? nəom		buək	to cheat
ləkħ±ə?	thin	səbuək	elbow
ñŧə?	home, family		
f ± ə?	monkey	juək	to raise
		suək	ear
ləv i ə [?]	door	ŋuəh	price, value
k ^h ±eh (natens	to give; to cause	luəh	substance
ñ ì əh	to laugh	9.0	
v i əh	wide	^M bluən	to swallow (non liquid things)
c^{h} i \to əm	dish	kuən	child, son, daughter

sənuən spoon

chuəŋ foot, leg

[?]juəŋ village

luəŋ way, side

phais ghost

klaiε to stir

lais both sides

ηaiε cry (of buffalo)

Footnotes

- The number was given by the Tribal Researche Center in its reports,
 Tribal Population Summary in Thailand, 1979.
- 2. The Lawa population in Chiengmai is 7,139, consisting of 1,239 households in 19 villages. In Maehongsorn, the number is decreased to 2,570, consisting of 499 households in 13 villages. There is also a Lawa village in Chiengrai where there are only 132 Lawa and 29 households; cf. the above mentioned <u>Tribal Population Summary</u> in Thailand.
- 3. A vivid description of a two-day trek to these Lawa villages was given by the late Princess Viphavadee Rangsit in her article "mie nuey phrá? rajchathan khin khao" (when the Royal Aid comes to the hills) in her collected papers "rien lăi rót" (Different tastes), Bangkok, Prae Pittaya Press, 1971.
- 4. A description of the Chaobon language was done by Miss Payao Meemanas in her A Description of Chaobon (nahkur): an Austroasiatic Language in Thailand, an unpublished M.A. thesis, Southeast Asian Language Center, Mahidol University, 1979, 314 pages (in English).
- 5. Sisawat, Bunchuai 'săm sip chât nai Chiengrai' (Thirty Nationalities in Chiengrai), Outhai Press, Bangkok, 1952 (in Thai).
 - Khanthathatbamroong, Manas 'kan sŏnkhrɔ' chao khǎo nai phâk nɨð khɔ̈ŋ

 tamruðt phuthɔn chai dɛn' (An assistant to the hilltribes in the North

- by the Royal Patrol Police), an unpublished M.A. thesis, Thammasart University, 1965 (in Thai).
- 6. Young, Oliver Gordon The Hill Tribes of Northern Thailand, 1961, fifth edition published by the Siam Society, Bangkok, 1974, 96 pages, page 53.
- 7. Kauffmann, H.E gave a slightly different account of the Lawa system of classes in his article 'Some Social and Religious Institutions of the Lawa' part I'. Journal of the Siam Society 60, 1, 1972.
- 8. Viphavadee Rangsit, "mio nuay phra rajchathan khin khao", page 283-350.
- 9. Thomas, David D., and Headley, Robert K., 'More on Mon-Khmer Subgrouping', Lingua 25, 4 page 398-418.
- 10. Ratanakul, Suriya, 'ruəpruəm kham phasă Lawa' (A collection of Lawa vocabulary), paper presented to the Symposium on Humanities Disciplines, organized by the National Research Council of Thailand,

 March 24-26, 1977, 40 pages.
- 11. Kunstadter, Peter gave a description of Lawa circle of life in Ban
 Pa Pae village in his article 'Living With Thailand's Gentle Lua'
 in the National Geographic Magazine, July, 1966, page 123-146.
- 12. Schlatter, Donald gave a detailed description of the analysis and development of orthography for writing the Lawa language, in Phonemes

- and Orthography: Language Planning in Ten Minority Languages of

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 C No.43, the Australian National University, 1976, chapter 11,
 page 273-281.
- 13. Ratanakul, Suriya, 'The Lawa·ləsəm ?lɛ Poetry', paper presented to
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 24-26, 1979, 38 pages.

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