

THE PHONOLOGY OF PLANG AS SPOKEN IN BANHUAYNAMKHUN CHIENGRAI PROVINCE

BY

PIJITRA DISSAWAROTHAM

A THESIS SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

(LINGUISTICS: SOUTHEAST ASIAN LANGUAGES AND LINGUISTICS)

IN THE

FACULTY OF GRADUATE STUDIES

OF

MAHIDOL UNIVERSITY

1986

001480

To my family with much appreciation

This thesis

entitled

THE PHONOLOGY OF PLANG AS SPOKEN IN BANHUAYNAMKHUN CHIENGRAI PROVINCE

was submitted to the Faculty of Graduate Studies, Mahidol University for the MASTER OF ARTS degree on June 20, 1986

Signature Pijka Dissawaretham

Pijitra Dissawarotham

Sauid Showax

Candidate

David Thomas, Ph.D.

Preceptor

S. Remeriat

Suwilai Premsrirat, Ph.D.

Co-preceptor

Sukhum Vadec Khamle

Suriya Vitanalsel

Sukhuma-Vadee Khamhiran, M.A.

Co-preceptor

Monthree Chulasamaya, M.D., Ph.D.

Dean

M. Chulasamaya.

Faculty of Graduate Studies

Mahidol University

Suriya Ratanakul, Ph.D.

Director

Institute of Language and

Culture for Rural Development

EVALUATION OF THE FINAL EXAMINATION THE DEFENSE OF THESIS

We, the members of the supervisory Graduate Committee

for

PIJITRA DISSAWAROTHAM

unanimously approve the thesis entitled

THE PHONOLOGY OF PLANG AS SPOKEN IN BANHUAYNAMKHUN CHIENGRAI PROVINCE

We further agree that she has satisfactorily defended her
thesis at the examination given by the supervisory
committee

on

June 20, 1986

We recommend therefore that

Pijitra Dissawarotham

Be awarded the degree of Master of Arts in Linguistics from Mahidol University

David Thomas, Ph.D.

Sauid Thomas

Preceptor

Suwilai Premsrirat, Ph.D.

-S Remorriat

Co-preceptor

Sukhuma-Vadee Khamhiran, M.A.

Sukhum-Vadu Khamle

Sunga Delanakal

Co-preceptor

Monthree Chulasamaya, M.D., Ph.D.

M. Chulasawaya,

Dean.

Faculty of Graduate Studies

Mahidol University

Suriya Ratanakul, Ph.D.

Director,

Institute of Language and

Culture for Rural Development

BIOGRAPHY

Name : Miss Pijitra Dissawarotham

Date of Birth : November 20, 1959

Place of Birth : Bangkok, THAILAND

Institution Attended : Satreesamutprakarn, Samutprakarn

March 1979.....Certificate of

Matayomsuksa V

Suan Dusit Teacher's College, Bangkok

March 1981......Higher Certificate

of Education

Sri Nakarinwirot University Bangsaen, Chonburi

March 1983.....Bachelor of Education

(Eng.)

ACKNOWLEDGEMENTS

I would like to acknowlege my indebtness to :

Dr. David Thomas, my supervisor who gave me advise and patiently corrected errors as well as to my committee members,

Assistant Professor Dr. Suwilai Premsrirat and Assistant Professor Sukhuma—Vadee Khamhiran who made comments to improve the work.

Khowledgeable people who gave me time and good advice $\ensuremath{\mathsf{G}}$

Associate Professor Dr. Khunying Suriya Ratanakul

Dr. Christian Bauer

Paulette M. Hopple

Assistant Professor Amon Thaweesak

Aacharn Pattiya Jimrawat

Aacharn Sopana Sricampa

Aacharn Narumol Charoenma

Mrs. Tinglew Tajikam my main language helper, Mrs. Ikam
Tawunghu, Mr. Samrot Tasot, my language helpers, who willingly gave
me time and information and patiently pronounced many things that
were monotonous to them.

Miss Charoonsri Mulsawat and her family who advised me to study this language and guided me in a survey of the village.

Miss Chutima Maneeruangdet who kindly helped me during the work.

Without those people, this thesis could never been written.

With appreciation and many sincere thanks.

TABLE OF CONTENTS

				Page
ACKNOWLE	OGEME	ENT		I
TABLE OF	CONT	TENTS		II
LISTS OF FIGURES			VI	
ABSTRACT			VII	
ABBREVIAT	TIONS	S AND S	YMBOLS	VIII
CHAPTER]	[••••			1
Introduction			1	
1	1.1	Geogra	phical location	1
1	L . 2	Langua	ge affliliation	6
1	L . 3	Object	ive and scope of the study	9
1	L . 4	Methodo	ology	10
1	5	Some cu	ultural observation	11
		1.5.1	Dwellings	11
		1.5.2	Dressing	12
		1.5.3	Food	13
		1.5.4	Occupation	13
		1.5.5	Education	14
		1.5.6	Social structure	14
		1.5.7	Family structure	14
		1.5.8	Marriage	15
		1.5.9	One month naming ceremony	15
		1.5.10	Funeral	16

			Page
	1.6	Phonemic analysis approach	. 17
	1.7	Previous work on Samtao or Plang	. 18
	1.8	Transcription	. 18
CHAPTER	II		. 19
Intonation—Group			
	2.1	General Definition	. 19
	2.2	Types of Intonation	. 19
		2.2.1 The Rising-falling Contour	. 19
		2.2.2 The Rising Contour	. 22
	2.3	2.2.3 The slightly—Rising Contour	
CHAPTER	-		
Stress (Group		27
CHAPTER	IV		. 29
Syllable			29
	4.1 4.2	Structure Syllable type	29
		4.2.2 Closed syllable type	30
	4.3	Function	30
		4.3.1 Nuclear syllable	31
		4.3.2 Peripheral syllable	31
	4.4	Syllable-boundaries	34
CHAPTER	٧	· · · · · · · · · · · · · · · · · · · ·	35
Phoneme			35
	5.1 Consonants		
		5.1.1 Single initial consonant	35

Page

		5.1.2	Final consonant	41
		5.1.3	Consonant clusters	45
	5.2	Vowels		47
		5.2.1	Vowels in openssyllable	47
		5.2.2	Vowel in closed syllables	48
	5.3	Phonem	e Chart	50
		5.3.1	The consonant chart	50
			5.3.1.1 Formational statement of consonants	50
			5.3.1.2 The consonant contrasts	59
		5.3.2	The main vowel chart	62
			5.3.2.1 Formational statement of	
			main vowels	63
			5.3.2.2 The main vowel contrasts	66
	5.4	Suprasi	egmental features	68
		5.4.1	Length	68
		5.4.2	Register	73
		5.4.3	Stress	76
		5.4.4	Clarity	76
CHAPTER	VI			77
Changes	in co	onnected	d speech	77
	6.1	Intonat	tion pattern	77
	6.2	Stress-	-Group fusion	80
	6.3	Syllab	le structure	84

		Page	
CHAPTER VII.	***************************************	87	
The adaptation of loan words			
7.1	Change from long vowel to short vowel	88	
7.2	Change in consonant	89	
7.3	Change from diphthong to monophthong	9 0	
7.4	No adaptation	9 0	
7.5	Register change	92	
CHAPTER VII.		93	
Conclusion			
8.1	Conclusion	93	
8.2	Suggestion for further study	94	
BIBLIOGRAPHY			
APPENDIX I			
ADDENDTY TT			

LISTS OF FIGURES

			Page
Figure l	:	Map of showing the name of town or province	. 2
		which is near the border of 3 countries	. 2
Figure 2	:	Map of showing Plang immigration route	. 3
Figure 3	:	Map of Chiang Raaj province	. 4
Figure 4	:	Map of Mae Can District	. 5
Figure 5	:	The position of Plang in the Palaungic branch	. 7
Figure 6	:	The position of Plang (Samtao) in the Waic	
		Sub-branch	. 8
Figure 7	:	The phonological hierachy	. 17
Figure 8	:	The single initial consonants functioning in each	
		type of syllable	. 36
Figure 9	:	The correlation between initial consonants	
		and vowel (in all voice registers) in	
		strongly stressed syllables	38
F i gure 10	:	The correlation between final consonant and	
		vowel in all voice register type	42
Figure ll	:	Consonant clusters in stressed syllables	45
Figure 12	:	Consonant cluster structure	46

ABSTRACT

This thesis presents the phonology of Plang, a language of the Mon—Khmer language family. It is spoken in some villages in Sipsongpanna District in China and in Ban Huay nam Khun, Amphor Maecan, Chiengrai Province. The description concentrates on the Plang Phonology as spoken in Ban Huaynam Khun.

The phonological description consists of the Intonation Group, the Stress Group, the Syllable and the Phoneme. Then there is a discussion of the Changes in connected speech, and of the adaptation of loan words from neighbouring languages.

ABBREVIATION and SYMBOLS

asp. aspirated

C Consonant

C₁ First Consonant

Co Second Consonant

class classification

Fig. Figure

FC. Final Consonant

f.n.p. final particle

IC Initial Consonant

N Syllabic Nasal

SS Strong Stress

WS Weak Stress

US Unstressed Syllable

V. Vowel

vd. Voiced

vl. voiceless

// used for Phonemic Transcription

used for Phonetic Transcription

ength of vowel.

> become

CHAPTER I

INTRODUCTION

1.1 Geographical Location

There are two locations of the Plang people: in China and . in Thailand.

In China, there are the Plang people in Mengkontoj in Sipsongpanna in Yunnan (Khunming) Province which is in the Southeast of China near Shan State of Burma (see figure 1).

In Thailand, there are the Plang people in Ban Huaynam Khun in Tambon Mae Rai Amphoe Maecan Chiengrai Province (see details of each place in the following figure 3,4.)

The location of Ban Huaynam Khun village is about five kilometers from the main-road (Asia Road from Bangkok to Maesaay District). And the road to this village is the same road to Phra Thaat Dooj Tung (The femous Pagoda in Northern part of Thailand Laos and Burma).

These Plang people live in Ban Huaynam Khun for at least eighteen years ago. There are about 300 people. Before they immigrated to Thailand, they stayed in Kengtung (at Samtao Mountains) for 3 years, then immigrated to stay at Maesaaj District at Ban Phaa Taek for 2 years and then to locate at Ban Huaynam Khun in Maecan District (see figure 2).

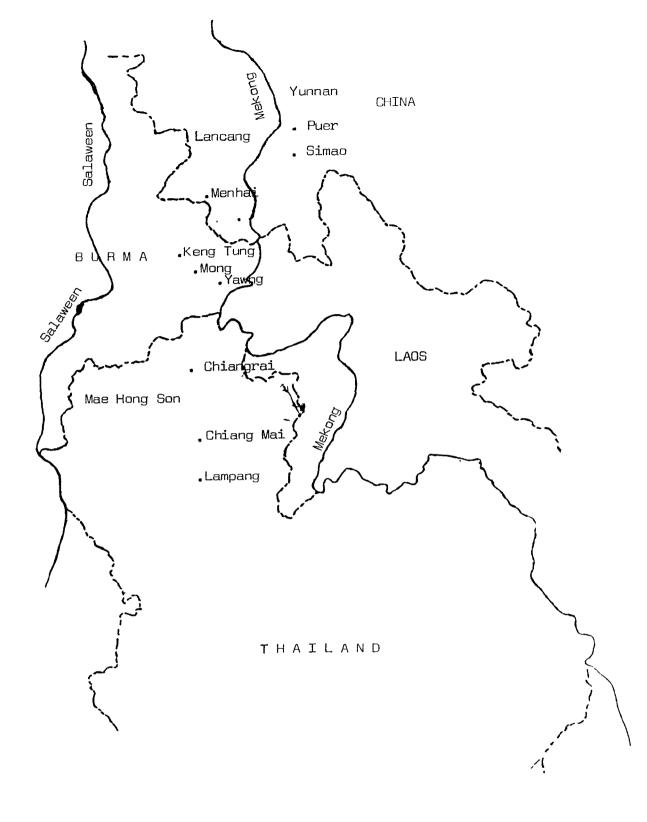


Figure 1: Map of showing the names of towns or provinces near the border of the 4 countries.

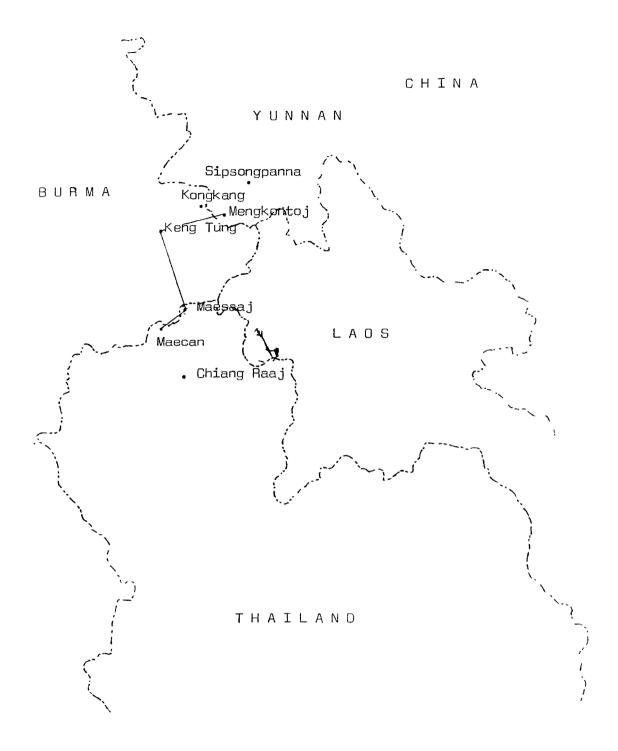


Figure 2: Map showing Plang migration route.

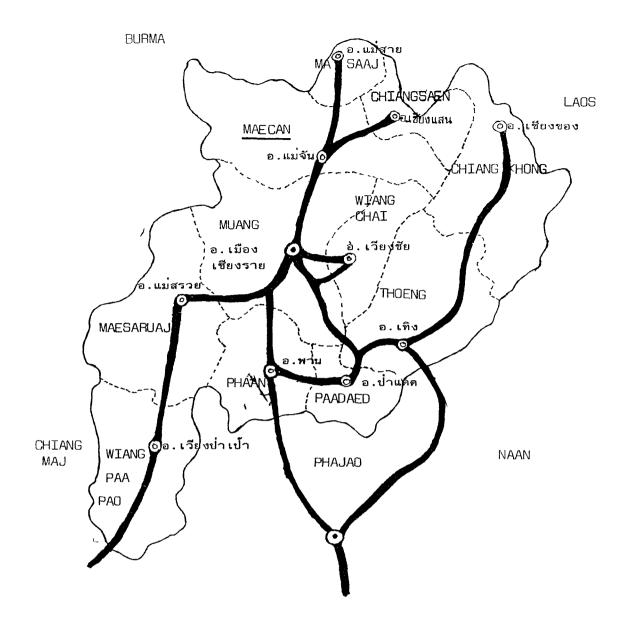


Figure 3: Map of Chiangrai province showing the district of Mae Can

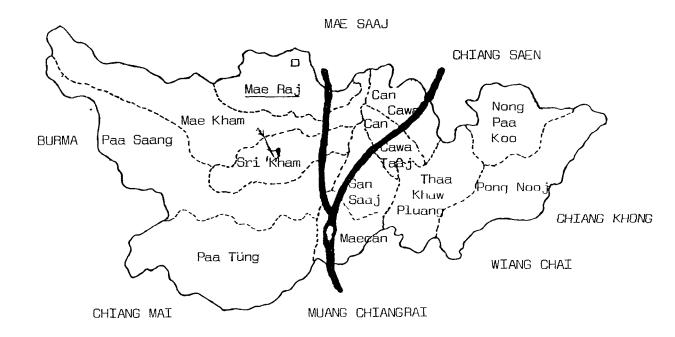


Figure 4: Map of MAE CHAN DISTRICT showing Tambon MAE RAJ

in MAE RAJ shows the village of Plang People.

1.2 Language Affiliations

Plang is an Austroasiatic Language of the Mon—Khmer family. It belongs to the Palaungic branch (see figure 5) in the Waic Sub—branch (see figure 6).

This language has been called Samtao by Harris, Gainey,
Therapan, and others, because it is spoken near the Samtao Mountain.

The following figures shows the position of Plang (Samtao) within the Palaungic branch and within the Waic sub-branch; according to Diffloth.

Gerard Diffloth: the paper on 15th Sino-Tibeton Conference;
 Beijing PRC Aug. 1982.

[&]quot;Subclassification of Palaungic"

^{2.} Gerard Diffloth: The Wa Languages, 1980 p. 14

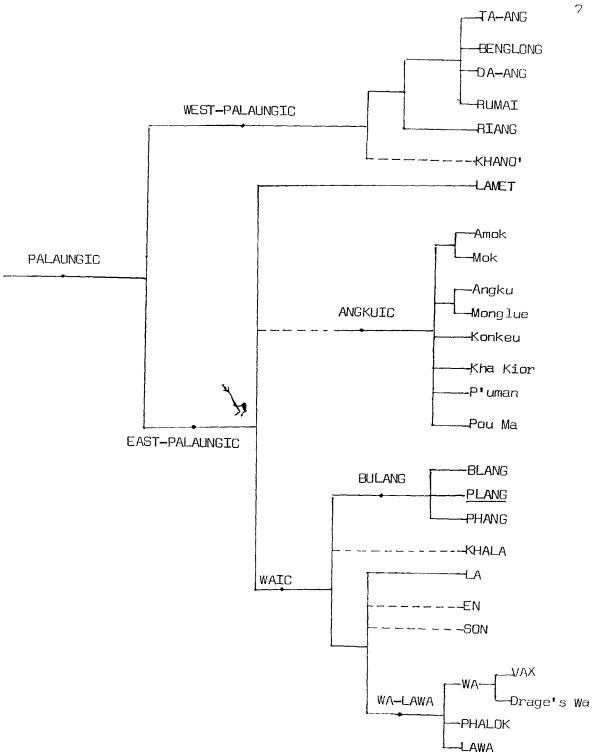


Figure 5: The position of Plang in the Palaungic branch.

Figure 6: The position of Plang (Samtao) in the Waic Sub-branch.

Proto-Lawa

-Saam

Phae

Мара

North (Diffloth)

1.3 Objective and Scope of the Study

The objectives of the study is to describe the phonological and phonetic characteristics of the Kontoj dialect of the Plang language as spoken in Ban Huaynam Khun Mu 26 Maecan District, Chiengrai Province. The study will include the intonation group, stress group, syllable, phoneme, and suprasegmentals in isolation, changes in connected speech, and the adaptation of loan words.

The term Rang in this thesis refers to the dialect spoken by the people who call themselves Kontoj. The name Kontoj is the name of a village in Sipsongpanna. In my survey I found that there are many Plang dialects, including the kontoj, jonmoj, sten, phemjon, konmak, panloh, konkan. My informant told me there is a little difference between these dialects, but they are mutually intelligible.

1.4 Methodology

- 1. Investigating published and unpublished documents on the Plang language to get some general ideas about the language.
- 2. Making a preliminary survey. I saw the name Samtao language on the language map 1 of Thailand, and I wanted to know where it is in Measaaj District. So in late November 1985 I went to the village (Charoonsri kindly guided me to this village).

We found that there were Samtao People there then I made a preliminary collection of data by using the Swadesh 200 word list .

3. Gathering data. This thesis is based on the speech of Mrs. Tinglew Tajikham. She was the main informant. She is about 40 years old. She was born in Mengkontoj village in Sipsongpanna. Mrs Ikham Tawunghu, 27 years old, was my second/informant. I also rechecked the collected data with Mr. Samrot Tasot who is my main informant's younger brother, 37 years old.

I started collecting data on the Plang language from the 9th December 1985 to the 5th January 1986. All data was rechecked again in February 1986 with Mr. Somrot.

^{1.} Gainey, Jerry W. and Theraphan L. Thongkum. Language map of Thailand Bangkok: CIEL, 1977.

1.5 Some cultural observation

1.5.1 Dwellings

The houses of these Plang people are located on the slope of a hill. It is always one storey. Generally, we can notice that the houses of these people are made of clay. The walls of the house are made of clay mixed with rice straw, using bamboo as a frame inside. The roof is made of lalang grass (a long wide grass). This kind of house makes them different from the Thai Yai or other hill tribe people. But they said that they did not build houses like this when they were in Sipsongpanna. They use the smooth ground as the floor. There is only one room in the house.

If the owner has a lot of money he will build a new house made of block brick, with a roof made of zinc, and a cement floor. There are many rooms in the house.

At the front of every house will be a wide level area for general use, for instance to dry the harvest from the field, for children playing and for adult meetings in the evening.

Some houses will have a little storage house for keeping rice or seed, and have a lavatory near or beside the house.

1.5.2 Dressing

The distinctive dress of the Plang people is not luxurious, it is very ordinary consisting of a panung, a blouse with long sleeves and no collar. It lo ks like the Burmese blouse style but is different in the color. The blouse of these people is always black. And every woman must have a long black pad of cloth to wind around the head. This winding around the head sometime looks like the hill tribe woman style, but they told me that it is wound in a different style. If there is a festival or ceremony they will wear a very long beautiful earring, necklace, bracelet and metal belt. If it is a wedding day they will put a lot of beautifulflowers around their head of the bride.

Nowadays they dress like other people in the village, because they cannot afford the outfit like in the former time

And they want to adapt themselves to the Thai people. One thing that remains is that the woman still wind the long pad of cloth around the head by using a towel. This is for the women who are more than 35 years old. And the style of the blouse (for use on New Year Day or Holy Day) they have changed the colour from black to a light or bright colour.

The outfit of the man is not complicated, it looks like the Chinese style.

1.5.3 Food

The main food of the Plang people is rice, vegetables and fruits. They do not like to eat sticky rice like the Northern Thai people. The food to eat with the rice is cooked easily. (There are not many ingredients) One thing that is peculiar to the Plang people is Sumphak, a way to preserve food. Its ingredients are soaked sticky rice, pickled lettuce, salt. The ingredients are mixed and pounded together then boiled until it is cooked, then dried on clearn big leaves.

1.5.4 Occupation

Nowadays most of the Plang people work in the field, but some are wage—earners. The plants that they grow are papaya, banana sweet potato etc. Every day in the early morning they will sell their products in the market to have money to live on. For the young generation or teenagers, most of them are wage—earners. They go to work in Bangkok and other provinces and send back the money to their parents.

1.5.5 Education

When they lived in Sipsongpanna, only men had a chance to learn to read. The school was the temple and the teachers were the monks. They learned to read and write the Khun Script (which they called the Khom script).

At present most of them are interested in the Standard

Thai language, because there is a prim ry school near the village.

Some of them encourage their children to go to school to learn to read write and speak Standard Thai. There are a lot of families that want their children to go to school but they have no money.

1.5.6 Social structure

The social structure of the Plang people is like general Southeast Asian social structures. They have a leader of the village. At Ban Huaynam Khun the leader of the Plang people is not an old man but he must speak standard Thai or Kham Muang fluently so that he can help the villagers when they must contact the officials.

1.5.7 Family structure

The Plang family is like most families in Southeast Asia, that is they are one family, one husband and one wife, and they stay with husband's parents. When they go to work outside the grandmother will help to bring up their children or help them prepare food. If any family has no old man in the house, a cousin who lives next door will help them. They always help each other, so we can see that the whole village is a big family.

1.5.8 Marriage

The Plang people generally get married when they are about 15—18 years old. The bridegroom may be older than bride but not much. When they get married the man has responsibility for the family. He will be the leader of the house and is responsible for everything about the family. On the wedding day there will be a big ceremony, and they will give food to the monks. The woman will stay at the bridegroom is house. If the couple are rich they will built a new house for their new life. The Plang people have no family name, so they will use their father's name as a second name, for instance a father named Sutwong has a daughter named Dee Sutwong. When the woman gets married she will use her husband's name as her second name.

1.5.9 One month naming ceremony

When the new born baby is one month old, the parents will hold a ceremony. By inviting the oldest man of the village they pay respect to him and ask him to name their baby. On that day father and mother will give joss sticks, candles and flowers to the old man, who then will give a good name to the baby. After that the cousins who came to this ceremony will give a present to the baby.

1.5.10 Funeral

If someone dies in the house or in the village they will call a neighbour or cousin to help them sew the new outfit for the body. The men will help to make the coffin. After everything is ready the body is given a bath, dressed in the new outfit, put in the coffin and taken to be buried near the temple. The long process must be finished within one day after dying.

Seven days later the cousins will give food to the monks.



1.6 Phonemic analysis approach

The procedure of analysis has followed the phonological hierarchy of the Tagmermic School. In the hierarchy of Ranks, we set up four ranks:— The Intonation Group, the Stress Group, the Syllable and the Phoneme (see figure below)

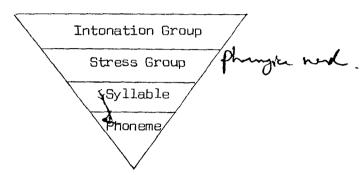


Figure 7: The Phonological Hierachy

The units of each rank have a structure stated in terms of units of the rank below (except for the lowest, the phoneme), and they function in structures of the rank above (except the intonation group). That means each unit will be described in term of its function, its structure and its distribution classes.

We start with the intonation group and work down to the phoneme.

The phonetic symbols which are used in this thesis follow the IPA system.

1.7 Previous work on Samtao or Plang

In 1976 Jimmy Harris and Jerry Gainey discovered the Samtao language in Thailand and recorded about 1,000 words in careful pronunciation. This has been yet published.

In 1977 Jerry Gainey, and Theraphan Thongkum made a language map of Thailand and Samtao was plotted in this map.

In 1980 Gerard Diffloth used the J. Harris and J. Gainey record in his Proto-Waid reconstruction.

1.8 Transcription

The examples in this thesis will be written in phonemic transcription, and except when the phonetic description of phonemes is being discussed, square brackets [] will be used for the phonetic description. When phonemic transcription needs to be distinguished: slash marks / / will be used.

CHAPTER II

2. The Intonation-Group

2.1 General Definition

The Intonation—Group is defined as the highest level of the phonological hierarchy, and therefore has no statable function.

Its structure is stated in terms of the Stress—Group.

2.2 Types of Intonation

In the Plang language there are three contrasting types of intonation contour: Sentence—final Rising—Falling Contour,

Sentence—final Rising Contour, and a Slightly—rising Contour before a sentence—medial pause.

Each contour covers at least one stress—group. In all three contour types there is a precontour: the stressed precontour syllables are on the mid level pitch, while the unstressed or weakly stressed syllables are slighly lower. The point at which the contrastive part of the contour begins is the beginning of the final stress—group. So each contour type is characterized by the pitch on the last syllable of the group.

2.2.1 The Rising-falling Contour

This type of contour is used for polar question, imparative (command, request). It is marked by a rise and then a gradual fall []. If the last syllable starts with /h/ there is an abrupt rise before the fall, otherwise there is a more gradual rise before the fall.

Example:

Polar Questions:

?En wat hoc hac

to temple already

'(Did you) go to the temple?'

sum hac

eat already

'Have you have breakfast yet?'

pətèn mì? sə? juh

aunt you sick f.n.p.

'Aunt, are you sick?'

pansah mi? nan həl wəc hu? ka? tomorrow you will go cut rice f.n.p.

'Will you go to cut rice tomorrow?'

Imperative:

Command:

khron kawapon juh close door f.n.p.

'Close the door!'

kà? ?ɛn mɔn ŋon
give him eat some
'Let him eat some!'

pāj jam

don't cry

Don't cry!

Request:

kà? ?ù? mɔn ŋɔn
give I eat some
'May I eat some?'

?un muk tem ju?
not sit down f.n.p.

(Won't you sit down?)
'Sit down, please!'

Negative answer to a question emphasizing the negative

mi? sak həc 'Have you finished eating yet?'

?un jaŋ sak sə?
not yet finish f.n.p.

'No, I have not.'

2.2.2 The Rising Contour

For example:

Content questions:

na? mi? muk ?wŋnɔ?

house you sit where

'Where is your house?'

?eŋ rɔt nwmnɔ?

'When did (you) arrive here?'

mi? juri? ?un toh roŋriŋ
you why not go school
'Why didn't you go to school?'

Statement:

swnjen ?eŋ caw

today come early

'Today (you) came early.'

pansa? ?ù? ?eŋ t ɛm

K

tomorrow I come again

'Tomorrow I will come again.'

?ù? can pun plan hac

I can speak Plang already

'I can speak Plang.'

ma? wi? k^hru? ka? la?u? mother buy blouse give I

'Mother bought a blouse for me.'

sum sak hoc hac eat full already

'I was full.'

sum hac
eat already
'I ate (rice).'

Intensifying Interjection:

nam para? paru?

beautiful very

'Very very beautiful!'

2.2.3 The Slightly-rising contour

This type of contour occurs before a sentence—madial pause. It is marked by a slightly rise and then a gradual fall Example:

?Eg wat hochec

to temple already

'(Did you) go to the temple?'

pansah mi? nan həl wəc hu? ka?

tomorrow you will go cut rice f.n.p

'Will you go to cut rice tomorrow?'

mi? juri? ?un toh roŋriŋ
you why not go school
'Why didn't you go to school?'

swnjen ?eŋ caw
today come early
'today (you) came early.'



2.3 Changes of Contour

There may be change from Falling Contour to Rising Contour depending on the mood of the speaker.

For example:

k ron kowapon juh

close door f.n.p.

'Close the door!' (stronger imperative)

har p kowapon juh

close door please

'Close the door please!' (milder imperative)

ham pu?

bathe f.n.

'Take a bath!' (angry)

ham pu?

bathe f.n.p.

'Take a bath, please!' (normal)

This intonation contrast is often found in the imperative sentence.

Since the intonation contour in Plang has a contrast between Rising-falling contour and Rising contour in the same sentence or utterance, and the meaning of the sentence is changed too, it is phonemic.

For example:

A: sum mac

eat already
'(Did you) have breakfast?'

B: sum mac

eat already
'Yes,I did.'

A: rot nan kontoj hac

reach at Kontoj already

'(Did you) reach Kontoj?'

B: rot nan kontoj hac

reach at Kontoj already

'Yes,I reached Kontoj.'

CHAPTER III

3. Stress Group

A unit whose elements are syllables is sometimes called a stress group or a phonological word. The stress group functions in the intonation group, and is defined as the rank whose units have a structure stated in terms of syllables.

The stress group may have one or two syllables. Each stress group has as its nucleus one stressed syllable, which is always the last syllable in the group, and as its periphery it may have an unstressed syllable or a weakly stressed syllable.

There are two types of stress group divided according to their structure.

3.1 Stress group with just a stressed syllable. Its structure is: S

For example:

3.2 Stress Group with weakly stressed or unstressed first syllable and a stressed second syllable. It structure is: WS or US.

US [?a'sa?] 'basket'

For example:

Note: ['] = primery stress used in strongly stressed syllable.

[~] = secondary stress used in weakly stressed syllable.

There is no mark on the unstressed syllable.

3.3 Compound stress group. Its structure is: WSWS

For example:

3.4 There are no distinctions between stress—groups in terms of their function in the intonation group, because any type of stress group can function in the pre—contour or the contour position.

CHAPTER IV

4. Syllable

A syllable is defined as the rank whose units function in the Stress—Group and whose structure is stated in term of Phonemes.

4.1 Structure

The Structure of a syllable is described in terms of a nucleus formed by a vowel (V) and a periphery formed by one or two consonants (C).

4.2 Syllable type

There are two types of syllables : an open syllable and a closed syllable.

4.2.1 Open syllable type

These syllables have a vowel as nucleus preceded by one or two consonants functioning as a periphery.

The structure of this syllable type is C(C)V. This syllable type can only be found in the presyllable.

For example:

CV : kati? 'soil'

kalok 'to be depleted'

CCV : preprason 'one kind of egg plant'

The CCV structure is rare in this language, having been only found in one word.

4.2.2 Closed syllable type

These syllables have a vowel as the nucleus followed by a consonant and preceded by up to the consonants.

The structure of this syllable type is c(c)vc. For example:

cvc	ka?	'fish'
	cin	'to fry'
ccvc	praj	'liquor'
	kwal	'to bark'

Generally, it can be said that in this language the stressed syllable is a closed syllable.

4.3 Function

A syllable functions in stress groups. There are two main classes of syllables in term of their function in the stress group: a nuclear stressed syllable and a peripheral unstressed or weakly stressed syllable.

4.3.1 Nuclear syllable

This is stressed, and functions as the nucleus of the stress group. This syllable class always occupies the final position in the stress group. Syllable of this class can only be closed.

This syllable class could be called the "major syllable".

For example:

4.3.2 Peripheral syllable

This syllable functions as the periphery in the stress group, always occupying the first place. The peripheral syllable can be subdivided into two sub-classes: a weakly stressed peripheral syllable and an unstressed peripheral syllable.

4.3.2.1 Weakly stressed peripheral syllable

Syllables in this sub-class are always of the closed type. This type may be called the 'minor syllable'.

For example:

4.3.2.2 Unstressed peripheral syllable

In this sub-class the syllables are always of the open type. This type may be called the "presyllable". The sub-class may be further divided into: unstressed syllabic nasal and unstressed open syllable.

4.3.2.2.1 Unstressed syllabic nasal

Phonemically, syllabic nasals [m, m, n, n] are allophones of the nasal phonemes /m, n, n/ (see sec. 5.3.1.1) These occur initially before homographic consonants.

A syllabic nasal does not have the structure of a normal syllable because it is not composed of a consonant and a vowel but only a consonant. It comes before another consonant.

For example:

4.3.2.2.2 Unstressed open transitional syllable

Syllables of this type are always of the open type with the vowels /3, a/.

For example:

In this language, the vowels/a, a/ which always occurs in this syllable type, cannot be deleted because there are constructive pairs between /a/ and /a/ in this position and between words with an unstressed open syllable and words with only a stressed syllable.

For example:

So the structure of syllables with their functions in the stress group can be shown in the following patterns.

4.4 Syllable-boundaries and marking syllable-breaks

Syllables are clearly marked in the data by the final consonant of the syllable which consists of /p, t, c, k, ?, m, n, p, q, h, l, w, j/. And the syllable pattern will help too, that is, if there are two consonant next together, the second is the beginning of a new syllable because the final consonant of a syllable can only be C (not a cluster) and a vowel is not at the beginning of a syllable pattern.

Thus, syllable breaks need not be marked overtly in the data.

4.5 I have treated the aspirates (p^h, t^h, c^h, k^h) as one unit rather than clusters, because they act more like the one unit and they cannot be split apart by infixes or by loss of either component.

CHAPTER V

5. Phoneme

The phoneme rank is defined as the rank whose units function in the syllable. As the lowest rank of the hierarchy. It has no statable structure, but its phonetic form in various contexts may be described.

The major functional classes of phonemes in the syllable are the vowel and the consonant.

5.1 Consonants

Consonants can be d vided into three sub-classes in the terms of their distribution: simple initials (c $_1$), final consonants (c $_3$) complex initials (c $_2$)

5.1.1 Single initial consonants

These function in strongly stressed, weakly stressed and unstressed syllables. The consonants in each group are compared in the chart below:

	55	ws	US
р	×	×	×
t	×	×	×
С	×	×	×
k	×	×	×
?	×	×	×
m	×	×	×
n	×	×	×
n	×	×	
9	×	×	
s	×	×	×
h	×	×	×
r	×	×	×
1	×	×	×
w	×	×	×
j	×	×	
p p	×	×	
th	×	×	
h C	×	×	
k	×	×	×
m	×	×	
ņ	×		
J.	×		
]	×		
w j	×		
j	×		

x occurring non-occurring

Figure 8: The single initial consonants functioning in each type of syllable.

All consonants can function as a single consonant in the initial position of a strongly stressed syllable.

/n, n, l, w, j/ do not occur in the initial position of a weakly stressed syllable.

/ph, th, ch, m, n, n, n, n, n, n, $\frac{1}{2}$, w, j, $\frac{1}{2}$ / do not occur in the initial position of an unstressed syllable.

The co-occurences of initial single consonants and vowels are shown in figure 9 in all type of voice register. (See Sec. 5.4.2)

	VIC V	р	t	С	k	?	m	п	'n	ŋ	s	h	r	1	w	j	h	th	c c	k h	ŵ	ű	ις.	ļ	w	j
	i	×	×	×	×	×	×	×	×		×	×	×	×	×	-	×	×	×		×	×	-	×	×	0
	e	×	×	F=			-	ļ- <u>-</u>		-	×		-	×	×				×			-	==	=		1
	E	×	×	×		×	×	×			×		×	×	×	×	×	×	×	×	×	×		×	×	
	ш	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		×	×	×			×	×	
High	ð	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×			×	×	
clear	а	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	
	u	×	×	×	×	×	×		×	×	×	×	×	×	-	×	×	×		×	×	×		×	×	×
	0		×		×	×		×				×	×		×	×	×	×	×	×				×	×	
	2	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×		×	×	×			×	×	
	ī		×	×				×	×	П	×	П	×	×	×				×	П						\sqcap
	ē	×						×					×		×											
	Ē	×	×	×		×	×				×								×							
Mid	ū		×		×	×							×		×	×										
level	ā	×	×	×	×	×	×	×			×		×	×	×			×	×							
	ā	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×							
	ū	×	×	×	×		×				×		×	×				×		П						\parallel
	ō	×			×		×				×								×							\prod
	5	×	×	×	×		×	×	×	×	×		×	×			×		×							\prod
	ì	×		×	П						×			×	×					Ī						\exists
	è			×							×		×	×												
	È	×	×	×							×			×					×							
Low	ù				×	×		×					×													
breathy	9	×		×	×		×				×					×						1				$\perp \parallel$
	à	×	×		×	×	×			×				×						×					_	\parallel
	ù	×			×	×	×	\perp	\perp		×		×			×								_		$\perp \parallel$
	ò	×	×				×			×						×		×								
	ò				×	×				×										×						

Figure 9: The correlation between initial consonants and Vowel

(in all voice register) in strongly stressed syllable

(in all voice register) in strongly stressed syllable.

Significant gaps are outlined in the chart.

x occur

non-occur

The correlation between initial single consonants and vowels will be discussed in 5 groups according to the place of articulation:

1. Labial group: /p, p^h, m, m, w, w/

/p, p^h, m, m, w, w/ do not occur before /è, $\hat{\mathbf{w}}$, $\hat{\mathbf{y}}$ /

/p, m, w/ do not occur before $/\bar{i}$, \hat{e} , \hat{j} /

/pʰ, m̥, w/ do not occur before /ī, ì, e, ē, è, è, ū, ù, ō, à, à, à, ū, ù, ō, ò, ò/

2. Alveolar group: /t, t^h , n, n, s, r, l, $\frac{1}{2}$ /

/t, t^h , n, n, s, r, 1, $\frac{1}{o}$ / do not occur before $\frac{1}{3}$ /

/t, n, r, 1/ do not occur before $/\hat{a}$, \bar{a} , \hat{b} /

/th, n, s, 1/ do not occur before /ī, ī, e, ē, ē, ē, ē, ē, w̄, w̄, ā, ā, ū, ō, ō, ō, ō/

3. Palatal group: /c, c^h, ɲ, ɲ, j, j/

/c, ch, p, p, j, j/ do not occur before $/\bar{e}$, \hat{e} , \bar{u} , \hat{u} , \hat{a} , \hat{u} , \bar{o} , \hat{o} /

/k,
$$k^h$$
, $\eta/$ do not occur before $/\bar{i}$, \hat{i} , e , \bar{e} , \hat{e} , $\hat{\epsilon}$ /

/k, ŋ/ do not occur before
$$/\bar{i}$$
, \hat{i} , e, \bar{e} , \hat{e} , $\hat{\epsilon}$, $\hat{\epsilon}$, $\hat{\epsilon}$ /

/k^h,
$$\mathfrak{g}$$
/ do not occur before /i, \overline{i} , \overline{i} , \overline{e} , \overline{u} , \overline{u} , \overline{u} , \overline{u} /

It's significant that Velar tend not occur before front vowel.

/?, h/ do not occur before
$$/\bar{i}$$
, \dot{i} , e, \bar{e} , \dot{e}

/h/ does not occur at all before a low breathy vowel.

The major structural gaps in the chart show that:

1. All voiced nasals and voiceless continuants:

2. All voiceless continuants:

3. All Nasals:

4. All Velars:

/k, k h , \mathfrak{g} / do not occur before all front vowels in all 3 registers ; except /i, ε /

5.1.2 Final Consonants

These function in the closed syllable type. They are /p, t, c, k, ?, m, n, p, h, l, w, p. The correlation between final consonants and vowels can see in the figure 10 below.

1		1	 ,		,	_r	,	,			1	1		1
	1, EC	- p	-t	- c	- k	-?	<u>-</u> т	- n	ナ	- ŋ	- h	-1	-w	m-,1
	i	×	×		×	×	×	×		×	×	×	×	1
	65	×	×			×	×	×		×	×	×	×	
	€.	×	×		×	×	×	×		×	×	×]
	પા	×	х		×	×	×	×	×	×	×	×		_
High	ξ3	×	×	×	×	×	×	×	×	Х	×	×		- As
clear	а	×	×	×	×	×	×	×	×	×	×	×	×	45
	u	×	×	×	×	×	×	×		×	×	×)
	0	×	×	×	×	×	×	×	×	×	×	×		_
	3	×	×	×	×	×	×	×		×	×	×		<i>y</i>
	Ī				×		×	×		×	×		×	
	G							×				×	×	
	E						×	×		×		×	×	
	TQ.						×	×	×	×		×		
Mid	5						×	×	×			×		44
Jevo1	Ħ				×		×	×	×	×		×	×	*
	а					×	×	×		×	×			16
	Ö						×	×	×	×		×		6
	5						×	×		×		×		1
	3.				1	×	×	×		×	×			1
	0	×	×			×	×	×		-	×	×		
	È	×	×		×	×				×	T			1
	iù		×				×			×		×		
- t_aw	A	×		×	×		1	×	×	×		×		1 1
broathy	À				×	×		×			×	×		
	ù	×	×		×	×	×			×				1 H
	6	1			×			×			×	×		1
	٦,		1	×	×	1	 	×		1	×		1	† H
							_i _	.1	1	4				

Figure III: The correlation between final consonant and Vowellin all voice register types.

x occurring non-occurring

The correlation between final consonants and vowels will be discussed in 5 groups as follows:

- Labial group: /p, m, w/
- /p, m, w/ do not occur after /à, ò, ò/
 - 2. Alveolar group: /t, n, 1/
- /t, 1/ do not occur after $/\bar{i}$, \bar{i} , \bar{u} , $\bar{\lambda}$ /
- /n, 1/ do not occur after $/\hat{\epsilon}$, $\hat{u}/$
 - 3. Palatal group : /c, ɲ, j/
- /c, p, j/ do not occur after all front vowels in all 3 registers and /a, ù, ò/
 - 4. Velar group: /k/
- /k/ does not occur after /i, e, \bar{e} , \hat{e} , $\bar{\epsilon}$, \bar{u} , \hat{u} , \bar{a} , \bar{u} , \bar{o} , \bar{o} /
 - 5. Glottal group: /?, h/
- /?, h/ do not occur after $/\bar{e}, \bar{\epsilon}, u, \bar{a}, \bar{a}, \bar{o}, \bar{o}/$

The major structural gaps in the chart show that:

1. All Palatals :

/c, ρ , j / do not occur after all front vowels in all 3 registers

2. All Stops:

/p , t , c , k , ? / do not occur after all Mid level registers $= \frac{1}{2} \left(\frac{1}{2} , \frac{1}{2} , \frac{1}{2} \right)$

3. All Semi-vowels:

/w , j / do not occur after all Low breathy register vowels

5.1.3 Consonant clusters

These function in initial position of strongly stressed, weakly stressed and unstressed syllables. There are two—consonant clusters in all syllable types. But we have found only one word that has a two—consonant cluster in an unstressed syllable. And few examples in weakly stressed syllables. No three consonant clusters have been found.

	SS	ws	us
pr	×	×	×
pl	×		
kr	×		
kl	×		
kw	×		
h pr	×	×	
p ^h l	×		
h k r	×	×	
k ^h l	×		

Figure 11: Consonant clustersin stressed syllable

x occurring non-occurring

For example:

Srongly Stressed

Weakly Stressed

Unstressed

praj 'liquor'

preprason

preprason 'a kind of eggplant'

plāŋ ' Plaŋ'

Strongly Stressed? Weakly Stressed Unstressed

phrim 'old' phrektit 'peper'

phlan 'roof'
krin 'to sharpen'
klam 'chaff(of rice)'
kwal 'to bark'

khrih 'teenage girl' khritkan 'to marry'

khlep 'twin'

In a cluster of two consonants, the first consonant must be a Stop : /p, p^h , k, k^h / and the second consonant is /r, 1, w/

The following figure show the correlation of consonant clusters.

c ₁	c ⁵
Р	r, l
k	r, l, w
p p	r, 1
k ^h	r, 1

Figure 12: Consonant cluster structure

5.2 Vowels

These function as the syllable nucleus, and in this language the vowel phonemes are /i, e, ε , ω , a, a, u, o, σ /. There are no complex vowels and there are no contrasts between short and long vowels in this language. Vowels can occur in open syllables and in closed syllables.

5.2.1 Vowels in open syllables

There are limited vowel sets that function in the pre-syllable: in unstressed syllable.

5.2.1.1 Vowels in open unstressed syllables.

Only /a, a/ function in this syllable type. (see sec. 4.2.2.2) For example:

saci? 'to point'

kəti? 'soil'

?arep 'grass'

kalok 'less (water)'

kəlok 'boiled'

There is contrast between $/\partial/$ and /a/ in this position. And I found only one word with [i]:

sisit 'crutch'

It may be assumed that [i] occurs only in reduplicated words so it can be considered an allophone of /a/.

5.2.2 Vowels in closed syllables

These function in stressed syllables, both strongly stressed and weakly stressed syllables.

5.2.2.1 Vowels in closed strongly stressed syllables.

All vowels can occur in this syllable type.

For example:

'older brother' ?ik 'bird' sem 'hook' mεt 'flesh' hщс 'many' han cak 'deer' ?um 'water' ?o? 'foolish' 'cool' kot

5.2.2.2 Vowels in closed weakly stressed syllables.

All vowels except /e/ function in this syllable type. They are /i, ϵ , ω , a, a, u, o, ρ /.

For example:

'tick (dog)' niŋniŋ pimhaj 'New Year Day' tegpha? 'younger uncle' ?wnmet 'to smash' swnjen 'today' jaŋjah 'to shake' tanmet 'axe' luklin 'employee' 'to twist (rope)' wolwel tojtin 'adam's apple'

5.3 Phoneme Charts

5.3.1 The Consonant Chart

Point Mode art of articulatio	ciculation	Labial	Alveolar	Palatal	Velar	Glottal
	unasp.	р	t	С	k	?
Stop	asp•	h P	th	h c	k ^h	
Nasal	vd•	m	п	Л	, D	
	v1.	m	ů	ů		
Fricative			S			h
Flap			r			
Lateral	vd.		1			
Lacerdi	vl.		ĵ			
Semi-Vowel	vd.	w		j·		
Sewi-Yowei	vl.	W		j		

5.3.1.1 Formational Statement of Consonants

All consonant phonemes in Plang are produced with pulmonic egressive airstream mechanisms.

pih 'to broom'

pwc 'to fall, to break'

pa?u? 'bamboo'

 $\left[p^{i} \right]$ a voiceless unreleased bilabial stop, occurs in final position.

- [b] a voiced unaspirated bilabial stop occurs:
 - 1. after syllabic [m land varies with[p]
 mpal~mbal 'earring'
 mpon 'door'
 - 2. occurs initially especially heard

 from the younger generation and

 varies with [p]. This tends to occur

 in words that have voiced final consonant.

 pol~bol 'twilight'

 pun bwn 'to shoot'
 - occurs syllable initially after a <u>cvp</u> presyllable.

kojsap<u>ba</u>w 'papaya'

 $/p^h/$ $\left[p^h\right]$ a voiceless aspirated bilabial stop, occurs initially.

p^hrim 'old(thing)'

h p on 'five'

h p'un 'picture'

tew 'sweet'

tac 'mud'

tòh 'to come back'

[t] a voiceless unreleased alveolar stop, occurs in final position.

?it' 'to sleep'

sat 'comb(n.)'

kot' 'cold'

/th/ [th] a voiceless aspirated alveolar stop, occurs initially.

t op 'to clap the hands'

thu? 'chopsticks'

t^hal 'to send'

/c/ [te] a voiceless alveo-palatal affricate, occurs initially /cin/ [tin] 'to fry' /cak/ [tak] 'dirty' a voiceless unaspirated palatal stop occurs in final position /lwc/ [lwic] 'to enter' /kuc/ [kuⁱc] 'hot' $/c^h/$ $\left[c^h\right]$ a voiceless aspirated palatal stop occurs in initial position h c **ɛp** 'shoes' ch pchep 'to whisper' chi? 'month' /k/ $\left[\text{k} \right]$ a voiceless unaspirated velar stop occurs initial 'cotton' kəj kati? 'one' kətam 'crab' [K¹] a voiceless unreleased velar stop occurs in final position /kuk/ [kuk] 'to call'
/lèk/ [lèk] 'pig'

```
/k^h/ [k^h] a voiceless aspirated velar stop, occurs
                    initially
                        k huh
                                             'wood'
                       k<sup>h</sup>oh
                                             'young man'
                       k<sup>h</sup>rəŋ
                                             'drum'
/?/ [?] a glottal stop
                        ?εŋ
                                             'to come'
                                             'water'
                        ?um
                        lawsa?
                                             'teacher'
                                             ıΙι
                        ?ù?
          [ m ]
/m/
                   a voiced bilabial syllabic nasal occurs
                   initially before /p, m, m, w/ _{\rm w}
                       /mpəl/ [m'pəl] 'earring'
                       /mməl/ [m'məl] 'to fall down'
                       /mæmmaj/ [m\varepsilon:m'maj] 'to break'
           [m] a voiced bilabial nasal occurs elsewhere
                                             'to love'
                        mwh
                                             'mother'
                        ma?
                                             'Thai'
                        SEM
                                             'to eat'
                        sum
```

```
a post aspirated nasal occurs |mfgre /a/
           [mh]
/m/
                        /map/ [mhap] 'to mik for
                        /mal/ [mhal] 'ficin'
                        /maj/ [mhaj] 'abby my.e.
                    a voiceless bilabial masal ways elsewhere
           [ m ]
                                             politime.
                        mut
                                             'string'
                        mu?
                                             'to full myize rice by hand
                        mi?
                    a voiced alveolar syllabic rese; sccurs as a whole
           \begin{bmatrix} \dot{\mathbf{u}} \end{bmatrix}
/n/
                    presyllable. It has been fourt *ply before
                    /t, s, h, r, 1/
                        /nlum/ [n'+um] 'chaza, *y caby'
                        /ntug/ [n'tug] 'or'
                         /nsap/ [n'sap] 'crissies slock'
                    a voiced alveolar masal comes sewhere
            [n]
                                             17. 11. 11
                         nok
                         num
                         pen
                         กพก
```

```
[nh]
                  a post aspirated alveolar nasal occurs only
/n/
                  before /a/
                     /nam/ [nham] 'blood'
                     /naj/ [nhaj] 'to bore, to hate'
                 a voiceless alveolar nasal occurs elsewhere
          [ 0 ]
                                         'raw (for fruit)'
                      ŋum
                                         'to urinate'
                      ŋəm
                                         'to count'
                      nin
         [ɲ] a voiced palatal nasal
/r/
                                         'to die'
                      num
                                         'to drink'
                      na?
                                         'short'
                      nwn
                      wak?on
                                         'bat'
         [ ]
                  a voiceless palatal nasal (found only one word
/ŋ/
                 in
                      the data)
                                         'difficult'
                      nap
/g/ [g] a voiced velar masal
                                         'neck'
                      ŋuk
                      ŋaj
                                         'day'
                                         'sholder'
                      krun
                                         'yellow'
                       lwn
```

a voiceless alveolar fricative occurs only initially /s/ [s] 'gold' sil 'sick' sa? ട>?പ്പു 'snake' [h] a voiceless glottal fricative /h/ hanəp 'how many' 'hair' hak pih 'to bloom' 'to love' muh [[] a voiced apico—alveolar flap /r/ 'pole' ron raŋ 'teeth' khru? 'enough' 'to quarrel' krut [1] /1/ a voiced apico-alveolar lateral lu? 'to use' 'three' la?ɔj 'field' mal la?al 't*vo'

```
/1/ [4] a voiceless alveolar lateral fricative
                    /lwŋ/ [+wŋ] 'yellow'
                    /lel/ [ +el ] 'thin'
                    /lat/ [ 4at ] 'to fear'
                    /nlum/ [num] 'sheets for baby'
/w/ [w] a voiced labiovelar semivowel
                                      'quick'
                    wāj
                                      'broad'
                    wa?
                    kaw
                                      'to wrap'
                    kwal
                                      'to bark'
        [ ▼ ]
/w/
                a voiceless bilabial fricative
                    /wik/ [₹ik] 'pour out slowly'
                    /win/ [\vec{\pin}] 'opium'
                    /wa?/ [ Ta? ] 'monkey'
   [j] a voiced fronto—palatal semivowel
/j/
                    juk
                                      'bait'
                                      'to pull'
                    jac
                                      'to run'
                    pəj
                                      'to have'
                    koj
/j/ [j] a voiceless fronto-palatal semivowel
                    juk
                                      'ear'
                (has been found only in one word)
```

5.3.1.2 The Consonant Contrasts

p-p ^h	pik p ^h ik	'a unit of money' 'furrow'
t-t ^h	tu? t ^h u?	'body' 'chopstick'
c-c ^h	cih c ^h ih	'salt' 'firewood'
k-k	kə? h k ə?	'back (of body)'
mm	mu?	'lotus' 'sting'
u-u°	กอก	'termite hill' 'to urinate'
ù-ù	na?	' difficul' 'house'
1-1	lu?	'to use ' 'leaf '
s-j	juk ° suk	'ear' 'elbow'

w-w °	wik	'a kind of knife'
	wik	'pour out slowly'
j-j	juk	'bait'
	juk	'ear'
t-?	tik	'cracked'
	?ik	'older brother'
k-?	tik	'cracked'
	ti?	'hand'
pw	pi?	'flute'
	wi?	'to buy'
b-ŵ [₹]	pit	'pencil'
	wit	'to wilt'
ph-w [₹]	p ^h a?	'to cut'
	wa?	'monkey'
m—w	wet	'wring'
	met	'hook'
m-w [₹]	maj	'a big mole'
	waj	'rattan'

n-Jı	nut	'to stuff (thing)'
	nwt	'to swallow'
ů–13	nam	'blood'
	у́вь	'difficult'
p-j	kəjn	'father'
	kaj	'cotton'
nr)	naj	'knitting wool'
	ŋaj	'eye'
л - ŋ	krwn	'fat'
	kruŋ	'shoulder'
o-j	kat	'thorn'
	kac	'sky' _*
h c -j	juk	'ear
	c op	'basket fish—trap'
	cht	'mad'
r-l	ra?	'to play'
	la?	'tea'
r-1,	?arac	'the house sparrow'
	?alac	'a kind of fruit'

5.3.2 The main vowel chart

Position of tongue tongue level	Front	Central	Back
high	i	ш	u
mid	е	а	0
low	٤	а	၁

All nine vowels occurs with all three registers and no allophonic variations caused by register have been observed.

₹*

5.3.2.1 Formational Statements of Main vowels

All vowel phonemes in Plang are usually short.

/i/ a high front unrounded vowel.

?im 'alive'

lil 'thin'

wi? 'to buy'

/e/ a mid front unrounded vowel.

?arep 'grass'

pen 'to carry (with hand)'

tew 'trousers'

 $/\varepsilon/$ a low front unrounded vowel.

h cερ 'shoes'

wēn 'mirror'

r€h 'root, to pour'

/w/ a high central vowel

k^hrwp 'to meet'

satwn 'tired'

mwl 'rounded'

/a/ a mid central vowel.

kəp 'father'

moc 'obay'

k ran 'drum'

/a/ a low central vowel.

kap 'chin'

jac 'pull'

?ata? 'grand father'

/u/ a high back rounded vowel.

muk 'cap'

sum 'to eat rice'

tuh 'head'

/o/ a mid back rounded vowel.

lon 'high'

kapol 'to slip'

koj 'to have'

/c/ a low back rounded vowel.

nok 'to see'

?atom 'right (side)'

?on 'smile'

All vowels, except front vowel /i, e, ε /; which do not occur before palatal /c, η , j/; have an [i] off glide when they occur before the palatals /c, η /.

For example:

Vowel with [i] off glide before /n/

5.3.2.2 The main vowel contrasts

All vowels described above are phonemically contrastive in this language. The suspect pair of vowels are shown below with examples of their contrastive pairs.

i-e	c in	'gall—bladder'
	c en	'to write'
e –-€	tew	'trousers'
, and the second	tew	'sweet'
u - ∂	rw?	'boat'
	ra?	'deep'
ə-a	ηə?	'to drink'
	na?	'house, dwelling'
	j.—	
u-o	h k u?	'wood'
u-o	•	
u-o o)	k ^h u?	'wood'
	k ^h u? k ^h o?	'wood' 'of (poss. mk.)'
	k ^h u? k ^h o? səkok	'wood' 'of (poss. mk.)' 'an ear of paddy'
	k ^h u? k ^h o? səkok	'wood' 'of (poss. mk.)' 'an ear of paddy'

e – 9	mpel	'gourd'
	mbəl	'earring'
ε− a	met	'hook'
	mat	'to tie'
w-u	swt	'to save'
	sut	'mosquito net'
3 0	?ap	'cooked rice'
	?op	†narrow†
a -)	raŋ	'tooth'
	roŋ	'pole'

Full near minimal contrastive pair of vowel i-e-t-w-a-a-u-o-2

sip	*ten*
cèp	'to nip'
sep	*naughty*
swp	'strong (rain)'
sap	'(father, child) step'
sap	'general'
lup	'to lay (bed)'
c op h	'to catch (fish)'
qcan	'fist'

5.4 Suprasegmental Features

Suprasegmental features are phonetic features that are associated with segmental speech sounds. The syllable nucleus (vowel) always carries the suprasegmental features, though there may be some influence on the consonants.

5.4.1 Length

Length is a phonetic feature concerned with the duration of sound. In this language there are no phonemic contrasts between short and long vowels. But there is automatic lengthening of the final syllable in some intonation contours (Chapter I) and automatic shortening of some syllables in word fusion (see Chapter 6). The last word of a story is often very long and there may be compensatory lengthening of a vowel with the loss of final /?, h/ in connected speech.

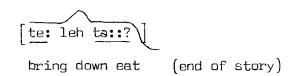
For example: In the isolated word speech

pôŋ 'to fill up'

ta? 'vegetable, to eat vegetable'

In connected speech

[cinna? juha? pō:] fried give fill up



Length cannot change the meaning of words so length is non-phonemic in this language.

5.4.2 Register

The term "register" has been used in many different ways. As a result, many definitions can be found in the literature depending upon who uses it — music and voice specialists, phoneticians, linguists or language teachers.....²

Jenner (1966: 19 ff) has surveyed some of the features manifasting register not only in Mon and Khmer proper, but on a wider scale, including other lesser known Mon—Khmer language of Southeast Asia.....³

in Mon-Khmer ASI 1976: 325

Michel Ferlus MKS VIII 1979 Edited by Philip N. Jenner

² Theraphan L.Thongkum "An Instrumental Study of Chong Registers"

³ Kenneth J. Gregerson 'Tongue—Root and Register'

Samtau tones

Samtau has only one series of voiceless initial stops, and a simple two—tone system has been posited by J. Harris and J. Gainey.

For example:

káp 'chin'

kap 'to hold in jaw'

kòt 'old'

kàn 'rat'

And Diffloth commented that the phonetic correlates of this two-way tone contrast are not simple: The high tone is mid-high rising, the low tone is mid falling except in checked syllables where it is mid level. Low tone is sometimes accompanied by breathy voice.....

Samtau tone $% \left(1\right) =\left(1\right) ^{2}$ appears to be distinctive only in final syllables. 1

¹ Gerard Diffloth 'The Wa Languages' 1980 p. 23, 171

But in my study I have found that Plang has a register contrast, with three contrastive phonemic registers which the tones: High clear, Mid level, and Low breathy.

The voice quality in the high clear register is normal clear or perhaps slightly tense. The voice quality in the mid level register is generally like that in the high clear register.

The voice quality in the low breathy register is lax and breathy.

Aspirated stop and voiceless continuants almost never co—occur with the breathy register (see figure 9).

The pitch in the high clear register is high and rising, in the mid clear register it is mid clear or with a very slight drop and in the low breathy register it is low rising before a final stop and low falling before a final voiced continuant and level before a final /h/.

These are marked orthographically as:

High clear register (unmarked)

Mid level register (-)

Low breathy register (`)

ä

For example:

High clear register

sil 'gold'

met 'hook'

sep 'naughty'

sa?wl 'warm'

lu? 'use'

Mid level register

kətwl 'stomach'

pom 'to mouth'

pēl 'to forget'

tēn 'bed'

?amɔ̃j 'cow'

sōj 'to cut'

Low breathy register

cìh 'salt'

kati? 'one'

mi? 'you'

lèk 'pig'

kətèŋ 'big'

?ù? 'I'

There are many minimal pairs which contrast in register.

For example:

Contrast between High Clear and Low breathy

	High Clear		Low Breathy
pih	'to sweep	pìh	'to pick (thorn)'
ncel	'hoof'	ncèl	'heel'
mpeŋ	'to grill'	mpèŋ	'the pond on the mountain'
lwy	'yellow'	lmb	'innocent (baby)'
lah	'say, tell'	làh	'market'
kah	'pull out'	kàh	'give'
kot	'cold'	kòt	'old'

Contrast between High Clear and Mid Level

s&m	'Thai'	sēm	'talkative'
twn	'first'	twn	'fund'
kam	'to tamp'	kām	'two winnow'
cən	'laugh'	cāji	'to set a row'
paj	'to run'	pāj	'human being'
kaŋ	'to burry face'	kāŋ	'rat'
caj	'nail'	cāj	'to sing'

Contrast between Low Breathy and Mid Level

cìh 'salt' cih 'to hatch'

kəpwl 'thick' kətwl 'stomach'

kətùŋ 'bottle gourd' tūŋ 'to lean'

toltòl 'to frown' ?atōl 'grasshopper'

That means that registers are distinctive in this language.

The meaning of words can be changed by the voice quality of vowels.

Every stressed syllable is pronounced with the accompaniment of a register. Every vowel can carry all types of register.

÷

5.4.3 Stress

A syllable is said to be stressed if it sticks out or is more prominent than the surrounding syllables. Stress in this language is treated as predictable (see sec. 3) Stress will occur on every monosyllabic word. In words with open transition, or in two syllable words, stress will occur on the last syllable.

5.4.4 Clarity

In words which have an open transitional syllable, the transitional vowel will be very short and unclear. In a pre—syllable or minor syllable, the vowel is clearer than in the open transitional syllable but not as clear as in the major syllable.

Therefore, length, stress and clarity are not distinctive in this language. They can be predicted and can not distinguish the meaning of a word. Register is a phonemic feature because it can change the meaning of words.

CHAPTER VI

6. Changes in connected speech

The description in the preceding chapter comes from careful speech. Now in this chapter we can see that there are many differences between careful speech and connected speech.

That is

- 6.1 Intonation Pattern
- 6.2 Stress-Group fusion
- 6.3 Syllable Structure

6.1 Intonation Pattern

The interesting point is that normally the intonation pattern is high rising between sentences in a paragraph and is slighly falling at the end of a paragraph.

[nan co? kan ni? pok ka? nan rot mesaj pok ka?
will visit father we get on bus will come Maesaj get on bus
hal rot co? kan ni? na:

go to visit father we f.n.p

growing opium about one month or more . cut grass out

.....rum maj pəle? pan ?apɛl ?wŋməl]

mixed it together made it in a small ball size

But sometimes it is not like the pattern above, it is not rising when we pause between sentences and it is not rising at the end of paragraph because of the inherent pitch of the words such as when the last word of a pause group carries mid voice register or low voice register. And if there is a word carrying low voice register it is rather lower than normal and it lowers the word before it and after it.

For example

A word carrying Low voice register:

wi: taj?apram tagkrog ?imma? somallagna?]
buy lettuce to pound fresh pickled

[...cinna? ju:?a? pō:ŋ tèh lèh ta:?]

fried until inflate put down eat

[....?ɛŋ rɔt tēn kʰo?kɔtkʰo?sɔŋ kàh pāj ?ɛŋ tèh məh]

come to candle oldman give person come take name

A word carrying Mid level register:

muk maj pāj juli? caret caru?.....stay with person do good good

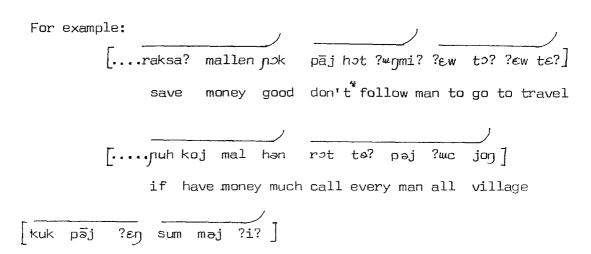
[teh pon kanoh ka? pon sa? sa? ?ala? te: makasom]

take meat what it's o.k chop chop piece take tomato

sɔ̃j ?a?.....

cut

If the final word has high register and has a high front vowel, especially /i/ and a final consonant stop /t, ?/ the paragraph final intonation goes up not down (In this case there is no influence from a mid or low register).



call man come eat with we

6.2 Stress—Group Fusion

In the Plang language there is an interesting feature that when two stress—groups come together they may partially fuse and change each other.

There are two main patterns

 Phoneme loss. The initial consonant of the second word becomes lost and then they merge together.

Formula:

Example:

sum hac sumac

eat already

'ate'

kon ?i? > koni?

son we

'our son'

səmal ?a? səmala?

pickle particle

'pickled'

2. Regressive Assimilation

Formula:

$$CV{N} + {?}VC > CV{NN}VC$$

 ${?}>{N}/CV{N} _ VC$

For example:

?wgkag hac > ?wgkaggac
put on already

'to put on'

 k^{h} ol ?i? > k^{h} olli?

help we

'help us'

ham ?ən > hammən

bathe he

'bathe him'

cin ?a? > cinna?

fry particle

'fried'

tew hac > tewwac

sweet already

'sweet'

This fusion only occurs between a syllable that has continuants (all nasals, 1, w) as final consonant (CV{N}) and a syllable has /?,h/ as initial consonant ($\{?\}$ VC).

Besides continuants there is also /c/ as final consonant for example.

ospoch > ped och

already already

'already'

hoc ?an > hocjen

already f.n.p

'finished'

motmoc ?a? > motmocja?

smash particle

'smashed'

3. Dissimilation. Sometimes heard in connected speech between two /h/ phonemes.

For example:

kah hok > kanhok

give rise

h# > n /#h__

I think the Plang people use formula 1 and 2 interchangeably without affecting the meaning of the sentences in which they occur.

$CV{N} + {?}VC >$	cv{n}vc \sim	cv{nn} vc	
sum hac	sumac	Summac	'ate'
kon ?i?	koni?	konni?	'our son'
samal ?a?	səmala?	səmalla?	'pickled'
?wykay hoc	?wgkagəc	?wgkaŋŋəc	'put o n'
ham ?ən	hamən	hammən	'bathe him
tew hac	tewac	tewwoc	'sweet'
hoc hac	hodac	hoccac ,	'already'

6.3 Syllable Structure

In careful speech or isolated words the main syllable structure is closed (CVC), and there is an open syllable in the presyllable occuring with specific vowels /e,ə, a/. But in connected speech we find that there are also open syllables occuring in the strongly stressed position. This open syllable comes from syllables that have /?, h/ as the final consonant.

For example:

careful speech

juh 'to do'
mi? 'you'
teh 'to take'
wi? 'to buy'

connected speech

ju: 'to do'
mi: 'you'
te: 'to take'
wi: 'to buy'

-?, -h > Ø / sentence - medial

For example:

[<u>na:</u> <u>mi:</u> muk ?wnnoh]

/ na? mi? muk ?wnnoh /

house you stay where

'Where is your house?'

'...fried until it was inflated then brough them down, ate.

The examples above show an open syllable in the strongly stressed syllable. There can also be change in the presyllable from CVC (weakly stressed syllable) to n (syllabic nasal). For example:

?wgpēl 7 mpēl 'earring'

?wnnan 7 nnan 'seed'

It is not only presyllables that can change into syllabic nasals, but I have also found this in the main syllable. In my data I have found one word ?un 'negative' which can change in this way.

ř

?un ⁊ դ / connected speech

For example:

[nju: nhom ka:]
/?un juh ?wŋhom ka?/
'(Today) didn't you work?'

/?un tew ka?/
not sweet f.n.p
'Is it sweet?'

From the example above ?wŋ, ?un can be changed in the connected speech. But there is one word ?wŋnɔ? 'where' ?wŋ it does not change in the connected speech.

CHAPTER VII

7. The Adaptation of loan words

In the Plang language there are many loan words. These are from Kham Muang or Northern Thai dialect and from the Thai Yai or Shan dialect. These loan words are used as ordinary words in Plang. Most of the loan words are the names of fruits and vegetables.

For example:

makpaw	'coconut'
maƙasom	'tomoto'
maksanp b?	'papaya'
makk w?	'eggplant'
p ^h akpuk	'radish'
thunoj	'garden pea'

Besides fruits and vegetables there are loan words about trade and exclamations. These kinds of loan words come from Thai Yai or Shan.

twn	'fund'
nammet	'profit'
wat	'baht'
t>?twn	'(to sell) at cost
?alo:	'surprisingly!'

. In my data there are loan words from Burmese too. For example:

Some loan words in Plang are adapted to the Plang system, others are not adapted.

7.1 Change from long vowel to short vowel.

If a word that they borrow has a long vowel (especially in final syllable) it will be changed into a short vowel because in Plang there is no contrast between short and long vowel (see sec. 5.4.1) and Plang vowel length tends to be short.

V: > V		
'a kind of food'	[k ^h a:wsɔ:j]	[k ^h awsj]
'baht'	[wa:t]	[wat]
'banana leaf'	[tɔ:ŋ]	[toŋ]
'name of a country'	[la:ncʰáːŋ]	[lancaŋ]
'everything'	[sapa?sape:t]	[səpa?səpit]
'to scrape'	[k ^h i:t]	[k ^h it]

If the loan word is a long open syllable it will be changed into a short closed syllable, ending with glottal stop /?/. Because in Plang there are no open syllables in strongly stressed syllables.

_V:# 7_V?

'roselle'	[sômpǔ:]	[sompu?]
'papaya'	[ma:ksáŋp ɔ:]	[maksaŋp ^h ɔ?]
'sky'	[fá:] >	[ֆa?]
'to keep'	[raksã:]	[raksa?]
'to be sad'	[lâwlm:]	[lawlw?]

7.2 Change in a consonant by adapting the articulation. The most obvious change is from labiodental fricative to bilabial fricative (f7 ϕ)

'opium'	[fin]	[win]
'a kind of food'	[k ^h a:wliŋfan]	[k ^h awling@an]
'sky'	[fá:]	[½ a?]
'squash'	[fák]	[T ak]
'lid'	[fǎ:]	[æa:]
'rice straw'	[fa:ŋ]	[tan]

7.3 Change from diphthong to monophthong.

Because Plang has no diphthongs or complex vowels, when they borrow they will simplify the diphthong or complex vowels.

For example:

7.4 No adaptation

If the word that is borrowed can fit in the Plang language system it will be brought into the system without changing it, such as:

there are so many loan words in the flam language may the because they are used to the Thai words from Electropeanna and in doubt they became bilingual in Sipsongaria. When they came to Thailand they did not have a lot of problem about the Thai languable. And I found an example to support her idea when I heard a doubt they sing that used. Thai Yai or Shan words in the adong. And they told me that they have used these Thai Yai words for a long time because they are high class words that can express the idea better than theirs. (My singer is 70 years old now.)

7.5 Register Change

It is rather difficult to say anything about the adaptation of tone and register because I cannot determine which words will change in which ways. However there is often a change in tone. For instance a falling—rising contour tone may change into the high clear register:

falling tone to high clear register

Most of the loan words, if there are changes in register, are changed into high clear. But in Burmese loan words it is not changed, such as:

CHAPTER VIII

8.1 Conclusion

There are 9 main vowels in three registers : /i,e,E,W,3, a,u,o,3 /. There are no diphthongs in Plang.

In the Intonation—Group, there are three types of contour:
Rising—falling contour, Rising contour and Slightly contour.

In the Stress Group, the stress group may have one or two syllables. Each stress group has as its nucleus one stressed syllable, which is always the last syllable in the group.

There are 2 types of syllables : an open syllable and a closed syllable. The syllable structures are :

'c(c)vc

N 'C(C)VC

 $c(c)v \cdot c(c)vc$

c(c)vc 'c(c)vc

In Suprasegmental Features, there are no contrasts between short and long vowels(just occurs in the connected speech). There are three contrastive phonamic register: High clear, Mid level and Low breathy register.

Besides, from the study in the connected speech, it is found there are changes from careful speech. The changes are: Intonation Pattern, Stress—Group, Syllable Structure and Length of vowel.

Finally, there are many loan words from Kham Muang or Northern

Thai dialect and Thai Yai or Shan dialect. And these loan words have

been adapted into their language sustem.

8.2 Suggestions for further study

For further study, some interesting points are given in the following suggestions:

- 1. A study of a phonology of other Plang dialects with comparison.
 - 2. A study of the Plang(Kontoj) syntax.
- 3. A study of the changes of the phonology by comparing with Proto-Waic.
 - 4. A study of the multilingualism of the Plang people.
 - 5. Careful research on the intonation pattern.

BIBLIOGRAPHY

Diffloth Gerard

1977 "Mon—Khmer Initial Palatals and Substratumized Austro—Thai." Mon—Khmer Studies VI, ed by Philip N. Jenner. The University Press of Hawaii, Honolulu, p. 39—57.

1980 The Wa Languages. Chicago. LTBA

1982 "Subclassification of Palaungic" Papers from the

15th Sino-Tibetan Conference, Beijing PRC, Aug. 1982

Ferlus Michel

1979 "Formation des registers et mutation consonantiques dans les languages Mon-Khmer" Mon-Khmer Studies

VIII ed, by Phillip N. Jenner. The University

Press of Hawaii, Honolulu, p. 1–70.

Gregerson J. Kenneth

1976 "Tongue—Root and Register in Mon—Khmer" Austroasiatic Studies I p. 323—365.

Henderson J.A. Eugenie

1952 The Main Features of Cambodian Pronunciation.
BSOAS 14: 149-74

Huffman E. Franklin

1976 "The register problem in fifteen Mon—Khmer Languages."

Austroasiatic Studies I: 579—89.

1985 "The Phonology of Chong, A Mon—Khmer Language of Thailand. In Suriya, Thomas, and Suwilai Studies in House of A.G. Haudricourt.

Kannika Nitayapakde

1985 The Phonology of Urak Lawoi' Language on Lanta Island in Krabi Province, M.A. Thesis, Mahidol University.

Mitani Yasuki

1978 "Problems in the classification of Palaungic."

Paper presented at Second International Conference
on Austroasiatic Linguistics.

Narumol Charoenma

1980 The Sound System of Lampang Lamet and Wiangpapao Lua
M.A. Thesis, Mahidol University.

Pike L. Kenneth

1947 Phonemics: A Technique For Reducing Languages to
Writing. Ann Arbor the University of Michigan Press.

Sukhuma-Vadee Khamhiran

1985 Handouts and Lecture Notes.

Theraphan L. Thongkum, and Jerry W. Gainey

- 1977 Language Map of Thailand and Handbook. ILTRP.

 Central Institute of English Language. Office

 of State Universities.
- 1985 "An Acoustic Study of the Register Complex in Kui (Suai)" Paper presented at the 18th International Conference on Sino—Tibetan Languages and Linguistics Aug., 27—29th, Bangkok 1985

APPENDIX I

WORD LIST

The entries in these wordlists are listed according to the following orders:

- 1. The entries are listed according to their initial consonants which are grouped into Stop, Nasal, Fricative, Flap, Lateral, and Semi-vowel such as p, m, s, r, l, w, and voiced consonants come before voiceless consonants. So the full order is p, t, c, k, ?, m, n, n, m, n, n, n, s, h, r, l, l, w, w, j, j. The entries which are consonant clusters are listed after the single initial consonants.
- 2. The vowel order is i, e, ϵ , ω , a, a, u, o, o, and High clear register vowels come before Mid level register vowels (-) and Low breathy register vowels (`) in that order.

PLANG (KONTOJ) WORD LIST

/p-/

pit	'pencil'	pət	'a small spade'
pik .	'a unit of money ¹	pətah	'to turn(over)'
pi?	'flute'	paton	'pot'
pì?	'to win'	расед	'sun helmet'
pimhaj	'New Years Day'	pac ^h ig	'pan'
pih	'to sweep'	ра?	'breast'
pìh	'to pick (thorn)'	pām	'fence(v,n)'
pijah	'bag'	pənik	'little'
pijuntun	'rainbow'	pani?	'middle'
		paŋ	'to blow'
pen	'to carry(with	pasah	'sky'
	hand)	pasahp a	h'thunder bolt'
pel	'to forget'	pasol	'to awaken'
•		pəh	'to hit'
Рέρ	'a kind of toy'	pəreh	'together'
ρὲk	'cloth'	pərat	'brush'
рен	'to cut'	pərahpər	uh 'very'
		pal	'to bespatter'
		hor	co peshacter
pwt	'to pluck(flower)'	paj	'to run'
pwt pwc	'to pluck(flower)' 'to fall,to break'		·
		рӘј	'to run'
ршс	'to fall, to break'	paj pāj	'to run' 'human being'
pwc pwk	'to fall, to break' 'to dip out'	paj pāj	'to run' 'human being'

pap	'book'	puc	'to put on'
pat	'different'	puk	'shin'
patèn	'aunt'	pùk	'to anoint,to paint'
patak	'to turn face up'	pu?	'brother—in—law'
patpəlah	'kitchen'	pù?	'to carry baby on the back'
pa?u?	¹bamboo¹	pu?w?	'name of a town'
pām	'to chew'	pun	'lime'
panok	'catfish'	pūŋ	'to speak'
pansah	'tomorrow'		
pan	'to sell'		
pāņ	'white'	pòn	'can(aux)'
paŋ	'stool'	pāŋ	'to be inflated'
pāŋ	'above'	pol	'evening'
pagloh	'name of village'		
pasoh	'charcoal'	mcq	'button'
pah	'to peel'	mcq	'to mouth'
paləŋ	'dust _i '	ncq	'meat'
palpon	'temples(of the	poh	'to spring back(horse)'
•	head)'	pol	'to roll up'
parew	'graveyard'		
paj	'than'		
pāj	'do not'		
pajonseh	'mentholated ointment'		

/pr-/

pri? 'offspring(plant)' prat 'to miss'

prin 'to build(house)' praj 'liquor'

prepressn 'a kind of eggplant' pruh 'to change'

prùh 'to be blistered'

preh 'lance'

prεl 'to stammer'

/pl-/

plan 'to open(eye)' plon 'lalung leaf'

plān 'name of the language' ploj 'to let go'

/ph-/

p ^h ik	'furrow'	p ^h okpin	'an ornamental pin'
p ^h emjon	'name of a village'	b ow h	'heart'
h p En	'cotton cloth'		
h p & w	'to arrive'	6 d	'to take(a bus)'
		uC d h	'five'
h p wn	'table'	lc ^h q	'bracelet'
		$1c^{d}q1c^{d}q$	'to spin'
p at	'to pat'		
h p əm	'to break wind'	/p ^h	r - /
p 91	'to fly'	h p rim	'old(thing)'
h p at	'to spin'	h p rek	'chilli'
p ^h ak	'to wash'	p ^h rektit	'pepper'
h p akpwk	'radish'	h p re?	'forest'
h p akci?	'parsley'		
h p akcon	'the morning glory'	h p rwc	'a wing'
h p am	'duckweed'	h p ruc	'to spit'
h anco?	'lamp'	h p rwh	'to bloom'
p ^h alok	'mortar'		
h p aw	'impatient'	h p raj	'to set the lalung leaves'
h p awcan	'firecrackers'		
		h p ra?	'to smoke'
p ^h uŋ	'picture'	p ^h ru?	'shirt'
h p ['] uj	'to switch on'	p ^h lwm	'to burn'
		p ^h lwt	'to scatter'

/t<u>-</u>/

ti?	'hand'	tətəp	'the wah'
tì?	'to take'	tac	'mud'
tik	'crack'	tekuh	'a pair'
tìk	'to divorce'	h tək raw	'a moment'
tiŋtiŋ	'bell'	ta?	'vegetable'
tigtol	'navel'	təl	'to flash'
		taj	'to ask'
tēn	'candle'		
tew	'trousers'	tapa?la?	'headman of the village'
tewję?	'panties'	ta?	'grandfather'
		ta?mān	'Burmese'
tεp	'pocket'	tam	' to'
tεt	'to snap'	tān	'virtue'
tεm	'low'	tán	'to weave'
tēn	'bed'	tāŋ	'to weave'
teŋ	'a kind of musical instrument'	taŋtih	'those'
tegp hah	'younger uncle'	taŋkrɔŋ	'to pound'
tɛl	'to pass near'	tagmet	'axe'
tew	'sweet'	tah	to open,to rest'
		tallew	'Taraew'
twp	'untidy'	tāj	'flower'
two	'a meter'	taj?apram	'lettuce'
tūn	'fund'		
twn	'first'		
twk	'to lead'		

tup	'hut'	tot&t	'to squirm,struggle'
tut	'to absorb'	toktin	'a string of beads'
tuk	'to snatch'	tokke?	'a wall gecko'
tu?	'body'	to?	'to continue'
tum	'budding'	to?te?	'whatever'
tuŋ	'to lean'	tom	'to order'
tuh	'head'	ton	'to castrate'
		ton	'dark'
tak	'poor'	toŋti?	'jug'
to?	'cupboard'	toŋtiŋ	'Adam's apple'
tom	'to boil'	tol	'to run(animal)'
tog	'to trap'	t51	'shallow'
tòh	'to open(lid)'	toltan	'to jump across'
tòh	'to go back(home)'	toj	'beside,betel nut'
toltõl	'to frown'		

/t^h-/

t ^h i?	'to blow away'	t uk	'to pour(water)'
		t ^h u?	'chopsticks'
t t & m	'again,to add'	t ^h u?k ^h lam	'green pea'
		t ^h u?nɔj	'garden pea'
thal	'to send'	t ^h u?sajsw?	'string bean'
t ^h əj	'to plough'	t ^h u?rīm	'the winged bean'
		t ^h uŋ	'a small jar'
h t ap	'a kind of trap'		
t ^h at	'to fight(rooster)'	t ^h o?	'to feed(a child)'
t ^h ām	'cave'	t ^h am	'to flood'
t ^h aŋlak	'butterfly'	h h t'ojp'omne'	? 'to breathe'
t ^h alhəj	'basin'		
t alhəjp an	'tray'	t ^h Jp	'to clap'
t ^h allak	'a bamboo peel'		

/c-/

cit	'to be deafening'	ca?	'to call on'
cik	'flase'	càn	'to fetch'
ci?	'to bore'	сәр	'to laugh '
ci?a?	'to soak'	cərèt	'good'
cim	'to taste'	c a ru?	'very(good)'
cin	'to fry'	cəlup ^h a?	'a novice in Buddhism'
cin	'bright'	cāj	'wrist'
cìh	'salt'		
cīh	'to hatch'	cap	'to put on(shoes)'
		cak	'deer'
cèp	'to grip with the	can	'sack'
	fingers'	canwa?	'heaven'
cɛt	'to bite'	caŋ	'to roll'
cēm	'to hold(baby)'	cãŋ	'a maker'
cen,	'to put on(panung)'	cah	'to string'
ငè၅	'to sew'	c aj	'nail'
cεh	'a kind of deer'	cāj	'to sing'
CEW	'glass,piebald'		
		cum	'to sink'
cwk	'dirty'	cūm	'a cup'
cw?	'one thing'	cuŋ	'leg-foot'
cwm	'to weigh'		
cwl	'a scar'	cokcal	'lightning'
		cokcol	'to jump'
		cakkroc	'to pound in the tube'
		con	tto nonciedat

сэрсэ?гэ?	'clear'	COM	'to put on'
cokkrik	'armpit'	coŋ	'to stand'
		coŋlāj	'tale'
	/c ^h -/		
c ^h i?	'month'	c ^h £h	'to cut(wood)into a small piece'
c ^h i? n	'the end of the month'	chep	'shoes'
c ^h in	'gall—bladder'	c ^h £k	'to tear'
c ^h in	'liver spots'		
c ^h iŋ	'to annoy'	c ^h wt	'mad'
c ^h iŋtuŋ	'Kengtung'		
c ^h iŋruŋ	'Chiengrung'	c ^h ə?	'to pretend'
c ^h et	'to scrape'	c ^h op	'to catch(fish)'
c ^h em	'to lack(vegetable)	c ^h omc ^h am	'having poor eyesight'
h c en	'to write'		
		c ^h opc ^h ep	'to wisper'

/k-/

ki?	'they'	katum	'liver'
		katuŋ	'clay pot'
k u t	'to be born'	katuŋ	'the bottle gourd'
kùt	'ta go out'	katot	'to cackle'
kwh	'curry,to cook	katom	'egg'
kѿn	'a lot of'	katompet	'foam'
		kac	'to light, to burn'
кәр	'to plug'	kacwm	'liquid'
kāp	'to lay(acloth)cross	kəcu?	'to scold,revile'
kapaŋ	'to bury '	kaka?	¹dove¹
кари?	'to foam up'	ka?	'back(of body)'
kət	'to think'	kam	'to tamp'
kəti?	'soil'	kām	'to winnow'
kəti?	'one'	kəmi?	'husband'
kate?	'lavatory'	kaman	'pimple'
kətèŋ	'big'	kamot	'cloudy,shady'
katuul	'abdomen'	kamoh	'banana'
kata?	'a hole for earring'	k∂nɔh	'what'
katam	'ripe'	kan	'father'
kətəla?um	'cloud'	кәлѕәр	'step—father'
kətət	'mole'	kanen	'jealous'
kətam	'crab'	kənol	'to slip'
kataj	'rabbit'	kəŋ	'an egg containing
kətu?	'banana blossom'		unhatched young'
		kəŋa?	'sesame'
		-	

kəswc	'the hen stomach'	kaceŋ	'expensive,value'	
kasaŋ	'elephant'	kacam	'mushy'	
kəlok	'to be boiled'	kak	'tree branch'	
kəl	'wind'	kake?	'pegion'	
kāl	'to rummage (pig)'	ka?	'fish'	
kələt	'a wart'	ka?əp	'soft'	
kələmk ^h u?	'tree'	kam	'barn'	
kəlok	'swift(of water)'	kamə?	'gook'	
k∂loŋ	'empty'	kaməh	'a bashed bamboo tube'	
kəwapoŋ	'window'	kamuh	'to dream'	
kawat	'a kind of entrails'	kamni?	'holy day'	
kaj	'cotton,thread'	kan	'to be defeated'	
kəjat	'to drop'	kaŋ	'to lie athwart'	
kəjuh	'lung'	kāŋ	'rat'	
kəjɔ?	'to sit on heels'	kaŋnəm	'thunder'	
		kasek	'acidulous'	
kap	'chin'	kah	'to take off'	
kapwl	'thick'	kàh	'to give'	
kapu?	'to save(money)	kahoŋ	'empty'	
kapoŋ	'skirt'	karac	'to shrink'	
kapro?	'to patch on'	kalo?	'to addle'	
kat	'thorn'	kalok	'to be depleted'	
katə?	'channel'	kalom	'smash'	
katu?	'flame'	kaw	'first son'	
kac	'shy'	kāw	'to wrap'	

kuc	'hot,sunshine'	kot	'cold'
kuk	'to call'	kòt	'old'
ku?	'wheel'	kokt ^h at	'water canteen'
kuŋ	'a kind of bow'	koks oj	'a tiffin carrier'
kūŋ	'to wait for'	kon	'son'
kuj	'to prise'	kòn	'-ing'
kujc ^h opti	? 'ring'	koncip	'adopted son'
		kontoj	'Kontoj'
kop	'saddle'	konkaŋ	'Kokang'
kom	'to cover'	konmak	'name of a village'
koŋ	'to dig'	konsəp	'step—son'
kõŋ	'shrimp'	konsəh	'great—grandson'
koŋkaŋ	'naked'	konlan	'nephew'
koj	'to have'	Ю́ŋ	'noisy'
kojs ppaw	'papaya'	koŋt ^h ep	'Bangkok'
		konjan	'KongYawng'
		kɔl	'hard'
		kōj	'slow'

/kr-/ /kl-/

krin 'to sharpen' klam 'chaff(of rice)'

krih 'to pluck(leaf)' klan 'eagle'

klaw 'to stir'

kren 'to put up (hair)'

krɛl 'to spin,revolve' /kw-/

kwɛn 'to be used to'

krwc 'to argue' kwan 'stained'

krwp 'fat' kwal 'to bark'

krwt 'to quarrel' kwaj 'a kind of peel for

krwŋ 'shoulder' eating with betel nut'

kransawac 'swallow'

kru? 'cheep'

krun 'steam'

krom 'to carry'

/k^h-/

k ^h it	'to scrape'	h k ucep	'a nail scissors'
		h h k uc et	'match'
k ^h €m	'clear'	k ^h u?	'wood'
		k ^h u?u?	'dump'
k ^h wtkan	'to marry'	k ^h u?pri?k ^h u?p	ora? 'fruit'
k ^h w?	'a kind of sound'	k ^h ulen	'lovely'
k ^h w?wnhu?	'vine'	k ^h ula?k ^h uc ^h al	'to triffle'
к ^ћ ът	'together'	k ^h otaŋkrɔŋ	'pestle'
k ^h əl	'thick(of fluid)'	k ^h o?	¹of¹
		k ^h o?kan	¹a kind of food'
k ^h ap	'scale(fish)'	k ^h o?kɔt	'old man'
k ^h ak	'to be good at'	k ^h o?no?	'whose'
k ^h antut	'rage'	k ^h o?pwm	'dead man'
k ^h al	'mattress'		,
k ^h alɛ?	'to limp'	k ^h ot	'to hug,embrace'
k ^h alwəl	'blanket'	k ok	'enclosure'
h k awmon	'sweet'	k ^h ɔ?	'to lassoo,hoe'
k ^h awli?	'Thai noodle'	k ^h on	'rod'
k ^h aju?	'beam'	k ^h ontog	'hammer'
		h k oh	'lad'
k ^h ut	'to dig'	k ^h ol	'to help'
k ^h uc	'to wash(face)'		

k ^h riŋ	'to be affected'	h k rap	'to pursue'
k ^h riŋ	'to fasten'	h k rac	'to scratch'
h k r ih	'girl,bear'	k ^h ra?	'way,road'
		h k ran	'lazy'
h k rep	'piece'	h k rah	'to step aside'
k ^h rel	'to boil down'	k ^h raw	'a moment'
h k rwp	'to meet'	h k ru?	'enough'
k rung	'a half'	h k runcel	'pitiful'
h k ra?	'to run away(someone)'	h k rom	'glad'
h k rag	'drum'	k ^h roŋ	'to close,bowl'
		k ^h rogoeg	'spade'
	/k ^h l-/		
k ^h l£p	'twin'	k ^h loŋ	'throat hurt'
k ^h laŋ	'to be jealous of'		

/?-/

?it	'to line down'	?w mpa?	'(of the ears)to sing'
?ik	'older brother'	?wmpaŋ	'door'
?ik?ɔŋ	'brother-sister'	?աբաղ	'woman'
?i? ?i?ri?}	'we'	?wmpah	'to fall down'
?i?ri?)	WC	?wmpal	'earring'
?im	'alive'	?wmpaj	'medicine'
?iŋ	'excrement'	?wmpon	'stairs'
?ih	'to get(thing)'	Jumpoh	'to gather(fruit)'
		?wmmi?	'man'
?et	'small'	?wmmet	'to squeeze'
?٤?	'this'	?wmmw?	'all together'
?ยก	'he'	?wmməl	'to fall down'
?ຍໆ	'to come'	?wmmələp ^h o	m 'heart'
?El	'hen'	?wmmuŋ	'to look up'
?Elcuk	'rooster'	?штwah	'broken'
?εlkat	'duck'	?wmweh	'to sneeze'
?èw	'to travel'	?wmwyam	'tough'
	. 116	0 413	
?wc	'all'	?unti?	'near'
?wn	'salty'	?աոեաթ	'to box'
?wmpih	'broom'	?wntwt	'to be torn off'
?wmpeŋ	'to grill'	?wntwm	'to soak'
?wmpèŋ	'a pond on the mountain'	?wntwn	'to kick'
?wmp€l	'gourd'	?wntwl	'to snore'
?wmpək	'bridge'	?wntak	'tongue'

?wntakti	? 'plam'	?ผกกอก	'seed'
?wntan	'jar'	?wnŋɛl	'pregnancy'
?wntah	'to slap'		
?wntaj	'Panung'	?พกานต	'to kill'
?wntuŋ	'carcass'	?wnpwk	'to mole(clay)'
?wntoŋ	'mouth(of animal)'	?wnna?	'to swing(cradle)'
?wntot	'to tie(s.t)shorter'	?աորսդ	'to carry(by 2 person)'
?wntok	'blid'	?wnpot	'push'
?wnt ^h al	'to sag'	-	
?wnt ^h àl	'wall'	?wnsik	'chisel'
		?wnsam	'to plant'
?wnciŋ	'cliff'	?wnsat	'a comb'
?wnciŋlɛl	'forehead'	?wnsan	'a rake for clearing
?wncep	¹hoof¹	?wnsaj	rubbish' 'central root'
?wncèl	'heel'	qcanw?	'to hold in the closed
?wcel	'to have the teeth on edge		hand*
?wncwm	'quite'		
?wricwm	'to talk in one's sleep'	?wnhin	'to count'
?wncap	'to stamp down'	?wnhim	'nail'
?wncam	'eaves'	?արհεհ	'to blow nose'
?พทธวŋ	'a kind of sitting'	?wnhap	'to yawn'
?wnc a?	'to pierce'	?wnhak	'to cough'
?wnc ^h ol	'to kneel'	?wnhoŋ	'spoutless kettle'
		?wnhɔm	'work'
?wnnwt	'to swallow'	?wnriŋ	'mat'
?พกกพฑ	'to sit on(egg)'	?wnrəm	'south,below'

?wnr∂n	'to stare hard'	?wnjat	'cock's comb'
?wnrajn	'termite'	?wnjok	'to praise'
?wnra?	'thief'		
?wnrà?	'coarse,vulgar'	?wnkan	'to put(on stove)'
?wnrah	'banana leaf'	?wnkan	'pod'
?wnroŋ	'to stir'	?wnku?	'milled rice'
?พกาวก	'to strain'	?wnkum	'fly'
		?wnkuŋ	'to heap up'
?wnlew	'goiter'	?wnkop	thin'
?wnlεwpuk	the calf(of leg)'	?wnkoŋ	'mountain'
?wnlwp	'to blink'	?wnkoŋmah	'nose'
?wnlwc	'caterpillar'	?wnksp	'a kind of bird'
?wnlw?	¹a saw¹	?wnkɔ̃l	'to cut(with knife)'
?wnləh	'to leak'		
?wnlac	'to be scratched'	?wnk rwh	'to jerk'
?wnlaj	'to lose'	?wnkrup	'to fold'
?wnluh	'green(plant)'	?wnkrok	'a piece'
?wnloh	'to pull up'		
?wnlōj	'to think off'	?wnk ^h ɔl	'a tube of bamboo'
?wnlok	'to throw'	?wnkhrwm	'to collapse'
?wnlo?	'dunky'	?wnk ^h rok	'knuckle'
?wnlog	'horse'		
		?wŋŋil	'gums'
?wnlat	'to frighten'	?աŋŋwt	'to overlie'
?wnjum	'sheets for baby'	?พŋŋวก	'middle'

?ар	'cooked rice'	?a?)	(-
?ən	'he'	?a? ?a?re?	'we(2person)'
?appet	'sticky rice'		
?∂p?ah	'nonglutinous rice'	?amwjn	'insect'
?əpplan	'rice cooked in the bamboo tube'	?amwynsəŋal	'green spider'
?əj	'to take care of'	?amuŋ	'banana stem'
		?amh o c	'ant'
?app ^h ə?	'a kind of stove'	?amul	'skink'
?apmi?	'chicken louse'	?amɔ́j	† OX†
?aρε?	'goat'	?ān	'to read'
?apwŋ	'rice straw'	?anōj	'luffa'
?apoŋ	'a sprout, shoot'	?anɔ?	'who'
?ap ^h £1	'bee'	?anlu?	*now*
?apram	'lettuce'	?aŋ	'to open(mouth)'
?aprampap	'white	?asa?	'basket'
?apləm	'leech'	?ahəŋ	'bedbug'
?atep	'flea'	?arep	'grass'
?atēm	'dragonfly'	?arw?	'to tell a lie'
?atol	'grasshopper'	?arəh	'spider'
?atom	'right'	?arac	'the sparrow'
?acim	'soybean'	?ara?	'maturé'
?acɛl	'cucumber'	?arok	'frog'
?ak?ak	'crow'	?al $arepsilon$ p	'flat'
?ak ^h rak	'buffalo'	?alakup	'turtle'
?ak ^h rep	'a kind of basket'	?aluŋ	'uncle'
?a?€k	'taro root'	?alac	'a kind of fruit'

?awi?	'left'	?op	'narrow'
?aj	'friend'	?ot	'to tell'
?aju?	'age'	?o?	'stupid,foolish'
?ajɔl	'nettle'	?omron	'sweat'
?ut	'to hold one's breath'	?ɔt	'to wipe'
?ù?	,caddle' 'I'	?ɔk	'to put out of the mouth'
?ù?ri?)	1	?3??&?	'this,that'
?um	'water'	?ວŋ	'younger brother,sister'
?ummanel	'saliva'	?oh	'a boil'
Gumna?	'dew'	?ɔl	'older sister'
?umlə?uh	'oil'	?ɔj	'sugar'
?umkətèn	'river'		
?un	'not'		
?ul	'to whine'		

/m-/

mì?	'you'	mat	'to tie'
miŋ	'to divide'	mac	'to touch'
		makpaw	'coconut'
met	¹hook¹	makcuk	'orange'
mε?	'to repair(a house)	maktiŋtāw	'water melon'
mām	'a handful'	makkəsom	'tomato'
memmaj	'widow'	makkuk	'olive'
m€w	'cat'	makkuj	'guava'
		makk ^h ε?	'dry batter'
marb	'to nod'	makk ^h w?	'eggplant'
mw?	'to add,mixe'	makk ^h w?kap	'a kind of eggplant'
mwŋraj	'Mengraj'	makk ənat	'pineapple'
muh	'to love'	makk am	'tamarind'
mwl	'round,class.	makk an	'top'
		makk ^h omnig	'a kind of tree'
mac	obey*	mak hon	'genuine'
majn	'wife'	makk ^h ɔ?	'jujub'
məh	'to be,become,name'	makk ^h jj	'momordica'
məl	'money,silver'	mak?u?	'pomelo'
mole?	'each other'	maksiŋ	'a small light bulb'
məj	'to hew(wood)'	maksīŋ	¹pumkin¹
məjnoŋ	'fog'	masem	'Thai'
		makmūŋ	'mango'
		makwa?	'lemon'

ma?	'mother'	mòn	'powder'
mām	'to stoop'	moncáŋ	'monk'
man	'to be sure'	mõl	'to climb'
mancew	'sweet potato'		
mancεwhu?	'yam bean'	mop	'to become bashed'
màl	'to swell'	mok	'to fell(tree)'
maj	'with'	mวิท	'to eat'
		mojn	'mouth'
mut	'to pound(betel)in		
	the tube'		
mùt	'quickly'		
muk	'to sit,stay'		
mun	'beautiful'		

/n**-**/

nīŋ	'a fishtrap'	nək	'late(night)'
nignig	'tick(dog)'	nām	'from,termite,heap'
		nancin	'first month'
new	'kapok'	nəji	'short'
		nāj	'in'
neh	'a kind of tree'		
		natsε̃m	'scissors'
nuk	'a house beam'	na?	'sour'
пшт	'year'	nam	'bank(river)'
numti?	'last year'	nampa?	'seasoning powder'
nwmkal	'next year'	nammet	'profit'
ոպտku?	'yesterday'	narok	'hell'
numman	'this year'	nali?	'clock,watch'
пщттаh	'formertime'		
numnoh	'when'	not	'moustache'
nwmni?	'day time'		
กพุmsum	'night'	nok	'to watch'
		noktonwan	'sunflower'
		non	'to hold'
		noh	'answer mk.'

/ŋ-/

ŋi? րս? 'day' 'to see' 'kettle' 'delicious' ŗiŋ рūт 'to plait(hair)' new pok 'fine,nice' 'to stain,dye' η̄σm nut 'to stuff(thing)' η̄σŋ 'to know' 'to die' num pa? 'to drink' ŋac 'to wet' na? 'house,dwelling' na??ərw? 'cobweb'

'still'

nan

/ŋ**-**/

ge l	'to moan'	ŋuk	'neck'
ŋūm	'(of a rock)projecting'	ეop	'morning'
		gol	'stump'
ŋəh	'genuine'		
		ŋœ	'top'
ŋa?	'ivory'	ŋɔk	'bad'
ŋān	'violent'	go?	'to curve'
ŋaj	'eye'	ŋɔn	'a lobe (of ear)'
ŋajc ^h iŋ	'ankles'	ŋɔnkəwəj	'whorl of hair'
najni?	'sun'	ŋɔŋ	'a kind of knife'
ŋajŋuŋ	'knee'	g51	'fire'
ŋal	'male'		

/m-/

'to crush' mi? 'to ask' man 'field' mal 'to arrest' 'a big mole' maj muut 'hat' 'ten thousand ' muk məh mu? 'string' 'to drive, to spin(ear)' mat mak 'betel' 'to hear' mon

\n^-/

nin 'to count' naj 'blood'
naj 'bored'
nen 'tight' 'num 'young,green(plant)'
na 'to inate'

/n-/

pap 'difficult'

/s**-**/

sip	'ten'	s <i>ə</i> p	'step(father,son)'
sit	'over there'	səpit	'brassiere'
sik	'to pinch'	səpiŋ	'bicycle'
sì?	'lice'	səput	'pointed'
simaw	'name of a town'	səpəj	'shadow'
siŋ	'sound'	səpa?	'cheek'
siŋtwc	'to crush'	səpa?səpi?	'everything'
sisit	'crutch'	səp ri?	'hot(curry)'
set	'to keep'	sət	'to get out of way'
sem	'bird'	səti?	'eight'
sen	'cooked'	sətim	'nine'
		səteŋ	'name of a village'
sep	'naughty'	sətun	'tired'
sem	'Thai'	satah	'winnowing basket'
sēm	'talkative'	səta?	'tail'
sel	'to bail'	satu?	'handle'
		sətən	'steady'
swp	'hard(rain)'		
swt	'to save'	səci?	'to point'
swn	¹same¹	sacek	'calyx(fruit)'
swnpi?sin	'a Buddhist holy day'	รอดอิก	'hard(thing)'
ຣພ ກງ ເກ	'today'	saceŋ	'ginger'
•		sacel	'iron'
		səcən	'almost out of sight'

səc ^h an	'basket'	səmi?	'sugar cane'
		səmən	'star'
sakwl	'turbid(water)'	sama?	'thank you(for older)'
səkəl	'to teach'	səmal	'to pickle'
səkuk	'bunch(fruit)'	səmaj	'easy'
sakok	'an ear of paddy'	s∂mu?	'straight'
sakok	'tricky'	səmuh	'rock'
səkrwp	'to turn over'	səmāj	'an oar'
səkral	'warm(weather)'		
sakrom	'bunch(flower)'	sanep	'pincers'
sakroc	'shellfish'	sənən	'how many'
•		sənat	'gun'
sək ^h uj	'to hit'	sənak	'ligament'
sək ^h rəj	'lemongrass'	sənaŋ	'cool'
sək ^h rak	'red'		
		sən	'chopping block'
sə?	'pain,hurt'	s∂ŋat	'quiet'
รอ?พท	'to become rotten'	saŋa?	'clean'
sə?wɲ	'snake'	səŋal	'green(colour)'
sə?wɲɲa?	'lizard'	sagalwa?	'galingale'
sə?aŋ	'bone'	səŋɔm	'limpid'
sa?uh	'dry'	səŋɔn	'day after yesterday'
sə?uj	'bad odor'		
sə?wt	'to ripen'	səsə?	'up right(to sit)'
sə?op	'ripe'	səsəj	'honest'
sə?oj	'smell'		

'to chase'	sut	'mosquito net'
'to breathe'	suk	'elbow'
	su?	'dog'
'to grin'	รนี?	'new'
'corn'	sum	'to eat rice'
'to pour(slowly)'	sùm	'to lose'
'cigarette'	sumpu?	'roselle'
'smooth'	sump ^h ak	'name of food'
'to eat'	sump ^h om	'hungry'
'name of a river'	sumsum	'to desire'
	suh	'to mow'
'petle,piece'		
'light'	soksak	'to meddle'
	som	'night(class.)'
'general	sonkr <i>ty</i>	'very(white)'
'to comb'		
'to be full'	sjt	'stomach ache'
'to rinse(rice)'	SOC	'to whistle'
'to stamp'	s)?	'purple'
'half—done(fruit)'	mca	'to put'
'to nip(with arm)'	son	'bitter'
		'a kind of animal'
warm'	sol	a Kina of ariimai
'warm' 'to die(older)'	sol soj	'necklace'
'to die(older)'	soj	'necklace'
	'to breathe' 'to grin' 'corn' 'to pour(slowly)' 'cigarette' 'smooth' 'to eat' 'name of a river' 'petle,piece' 'light' 'general 'to comb' 'to be full' 'to rinse(rice)' 'to stamp' 'half-done(fruit)' 'to nip(with arm)'	'to breathe' su? 'to grin' 'corn' 'to pour(slowly)' 'sim 'cigarette' 'smooth' 'to eat' 'name of a river' sumpham 'name of a river' sumsum suh 'petle,piece' 'light' soksak som 'general 'to comb' 'to be full' 'to rinse(rice)' 'som 'som 'to stamp' 'som 'som 'soc 'to stamp' 'soc 'to nip(with arm)' sun sum sumpham sumpham sum sum sum sum sum sum sum s

/h**-**/

hiŋ	'intelligent'	ha?	'to be burnt' •
		harsh	'seven'
hwc	'flesh'		
-		hum	'fragant'
hət	'to smell'	huŋ	'a house beam'
hac	'to nibble'		
hək	'hair'	hok	'to climb,to rise'
hakpan	'silver grey(hair)	hog	'to steam(food)'
hən	'much, many'	hol	'to vomit'
həl	'to walk,to return'		
	/		
hap	'a chicken coop'	hot	'to follow'
hac	'to drag'	hoc	'past tense mk.'
hak	'skin'	hok	'to dry,to expose'
han	'goose'	homlaw	'onion'
		hoj	'to hang'

/r-/

rip	'to close up'	rancet	'front teeth'
riŋ	'strong,hard'	raŋc ^h i?	'mcon'
rem	'beside,rim'	raŋkap	'the last teeth'
rew	'bird trap'	raŋkɔk	'canine tooth'
		rah	'to swipe'
rep	'to close'	rāj	'fierce(dog)'
. reh	'root'	rajlah	'to spread'
rwp	'fishnet'	rup	'to fight'
rw?	'boat'	rùp	'picture'
rwn	'to claw'	rut	'to water'
rwŋ	¹horn¹	rum	'to total up'
rŵŋ	'to be in flame'	ruŋ	'spine of leaf'
	•	rũŋ	'an ear(of corn)'
rət	'to shrink'		
rək	'chasm'	ròp	'a mold'
rokut	'to consign(thing)'	ro?	'to carry'
rə?	'deep'	rogrin	'school'
rə?u?	'to crow'		
rəŋac	'to threaten'	roc	'to leak,to flow'
		rot	'to,arrive'
rat	'not big'	roŋ	'pole'
rak	¹to shout¹	rīŋ	'rich'
ra?	'to play'	roj	'to chip little by little'
raŋ	'tooth'	rɔ̃j	'a sore'

/1-/

lim	'class.'	lac	'to extinguish'
liŋ	'to lick'	lak	'late'
ligkra?	'ghost'	lakpāŋ	'above'
		laktu?	'at the back'
lēn	'coin'	laknok	'outside'
		lakcol	'below'
lem	'to dig(by spade)'	laklan	'obstinate'
1èk	'pig'	la?	'tea'
leŋ	'long(time)'	la?al	' two'
lεh	'six'	la?uh	oil
		la?oj	'three'
lwc	'to enter'	laŋ	'long'
luk	'to choose'	lah	'to say,to tell'
lw?	'saw(v,n)'	làh	'market'
lwm	'a_cluster(of plants)'	lawsə?	'teacher'
		laj	'squirrel'
ləpun	'four'		
ləciŋ	'to listen'	luk	'to softboil'
l∂ku?	'day before tomorrow'	lukliŋ	'employee'
ləkək	'raw'	lu?	'to use'
19?	'crushed to powder'		
lə?up	'dandruff'		
lam	'pus'		

lok	'full'	log	'black'
1ōŋ	'uncle'	loh	'loudly (cry)'
		101	ito keep(in the mouth)'
lotlet	'to wag(tail)'	15?1g?	'to double'
lom	'sbaro'	loisi?	'to catch a cold'

/-/

ļi?	'rain(v,n)'	ļэк	'to water(a small tree)'
ļim	'a tube(of bamboo)'	ļə?	'than'
ļil	'thin'	lə?m⊃yı	'bad temper'
		ļoj	'melted lead'
ļɛl	'a knife tip in the handle'	ļat	'afraid of'
įew	'expert'	la?	'leaf'
		lam	'a lot of water(food)'
lwt	'little deaf'		
ļw?	'left'	ļup	'to lay(bed)'
lmu	'yellow'	lu?	'bark'
lŵŋ	'innocent'	lan	'high'
		ļot	'drinking straw'
		lohle?	'to tell a lie'

BORNOLOGICAL METER TO THE TO THE SERVICE AND A SERVICE AND A SERVICE OF THE SERVICE AND ASSESSMENT OF THE SERVICE AND ASSESSME

/w-/

wik	'a kind of knife'	wac	'knife'
wi?	'to buy'	wack han	'sword'
wì?	'to fan'	wak?op	'bat'
wiŋ	'to chip'	wakmɔl	'intestinal worm'
wih	'to overflow'	wa?	'broad'
wila?	'process'	wal	'garden'
		waj	'tiger,to borrow'
wetak	'to worry'	wajkoŋ	'maggot'
wen	'to put on Panung'	wajkogk ^h rəg	'a rasp'
weh	'to step aside'		
		wolwɛl	'to twist(rope)'
wet	'to twist'		
wen	'mirror'	wok	'to turn'
weh	'to pluck'	w⊃j	'sibling'
wwc	'intestine'		
wwŋ	'to lose(way)'		
wəc	'to cut rice'		
wəl	'to chothe'		

w∂jt^hat

woj

'flash light'

'quick'

/wٍ-/

wit	'to wilt'	wa?	'monkey'
wik	'to get out of(water)'	wam	'tough'
win	'opium'	waj	'rattan'
wwk	'to practise'	wuj	'to greet'

/j**-**/

jερ	'to close(eye)'	jut	'to stop'
jεn	'f.n.p'	juk	'bait'
		juŋ	'umbrella'
jət	'shade'	jùh	'to do'
jak	'to bend down'	juli?	'why'
jøŋjəh	'to shake'		
		jok	'to raise,to praise'
jac	'to pull'	jon	'village'
ja?	'grandmother'		
jam	'to cry'	jot	'to throw up'
jaŋ	'still'		
jaŋtin	'to go on foot'		

/j-/

juk 'ear'

APPENDIX II
CONNECTED SPEECH

```
[teh muk məj pāj ju:li? cəret cəru?]

/teh muk məj pāj juh ?i? cəret cəru? /

go stay with person do we good good

'When we stay with other people we should be good people'
```

[pāj ju: +a?mɔn pāj ?ɛw lèh tɔ? ?ɛw leh tɛ?]

/pāj juh la?mɔn pāj ?ɛw leh tɔ? ?ɛw leh tɛ? /

don't do bad temper don't travel go here travel go there

'Do not have a bad temper(all the time) and do not go to travel far away'

[pāj ?ɛw caj mallèn k hula:k huchɔl]

/pāj ?ɛw caj mallèn k hula?k huchɔl/

don't go pay money triffle

'Do not pay and waste a lot of money without thinking'

[raksa? mallèn nok pāj hot mmi? ?ɛw leh to? ?ɛw leh tɛ?]

/raksa? mallèn nok pāj hot ?wnmi? ?ɛw leh to? ?ɛw leh tɛ? /

keep money good don't follow man go down here go down there

'Keep money well, do not have a date with a young man to go outside

everywhere with him'

```
[kɔnni? kʰruʔcʰi? ʔɛw təj swnniʔ nɔk]

/ kɔnʔi? kʰruʔcʰi? ʔɛw təj swnniʔ nɔk/

son we circle month go ask day good
```

'When our son was one month old we would find a good day'

[ju: swnpi? pok teh tēn ?ɛw rot k o?kotk o?son bəj]

/ juh swnpi? pok teh ten ?ɛw rot k o?kotk o?son pəj /

do day good take candle go to oldman person

'we got a good day then went and brought candles to invite an old man to our house'

[ka? ?ɛŋ teh məh ɲu: koj mal hən]

/kah ?ɛŋ teh məh ɲuh koj mal hən/

give come take name if have money many

'to name our child and if we had a lot of money....'

[rot tahpāj ?wc jon kuk paj ?ɛn sum maj ?i?]

/rot tahpāj ?wc jon kuk paj ?ɛn sum maj ?i?/

to everybody all village call man come eat with we

'we would call everyone in all the village to come to our house and

have dinner with us.'

```
[wi:la:jju: sump hak]
/wila? juh sump hak /
'How to cook Sumphak'
```

[wi: ta:j?apram taŋkrɔŋ ?imma? səmalla?]
/wi? taj?apram taŋkrɔŋ ?im ?a? səmal ?a? /
buy lectuce pound fresh pickled
'Buy some lettuce and pound it while it is fresh and then
pickle that pounded lettuce'

[ju: ?wŋna? sum ju: ?wŋna? səmalla? pō:n som]

/ juh ?wŋna? sum juh ?wŋna? səmal ?a? pōn som/

do sour want do sour pickled 4 night

'it becomes sour. If(you) want it very sour, pickle it for

4 night.'

[?wŋna? se? ci? ŋku?pet tə?k ra:w həc]

/ ?wŋna? se? ci? ?wŋku?pet tə?k raw həc /

sour already soak stickyrice for a while already

'It is sour after soaking the strickyrice for a while.'

[Tik?a? ju: ?um kəjat təc taŋkrɔŋ taŋkrɔŋŋa? ?ələ? seh]

/ wik ?a? juh ?um kəjat həc taŋkrɔŋ taŋkrɔŋ ?a? ?ələ? seh /

raised do water fall already pound pounded little f.n.p

'Raise it from the water and let the water fall down, after that

poundedit into little pieces like a powder'

```
[gkan ?um səma:lapram
                         tumma?
                                  ju: kalok
/?wnkan ?um səmal ?apram tum ?a? juh
                                       kalok /
 put on water picklelectuce boiled do
  'Bring the pickled lettuce water and boil it.'
 som mw??a? khrel ju:?a? khol]
/ som mw? ?a? k rel _juh ?a? k əl/
 put everything boiled did
 'Put everything (that was prepared) in the boiling water and boil it
 down until it is thick.
           ju: kəleh te: thallak pwk som?a? nan thallak
          juh kəleh teh t<sup>h</sup>allak
                                     pwk som ?a? nan thallak /
/ sen hac
           do down take bamboo bark dip up put
 cooked
                                                 in bamboo bark
 'When it is cooked, take it down (from stove) bring bamboo bark and
 dip up the sump ak and put in the bark....
[həc rajlahha? hɔkka? ju: sə?uh həc tuhha?]
/ hac rajlah ?a? hyk ?a? juh sa?uh hac tuh ?a? /
 then spreaded dried
                        do
                             dry then peeled
 'spread it dry it until it is dry and then peelit out (from the bark)'
[paggol te: pac in gkagga? te: ?um la?uh]
        teh pəc<sup>n</sup>in, ?wnjkan, ?a? teh ?um lə?uh /
catch a fire take pan put on
                                 take lard
          fire, bring a pan and put it on the stove, bring lard...'
```

Take

[som pachin ju:?a? kuc som sumphak cinnec ju:?a? pō:ŋ]

/ som pachin juh ?a? kuc som sumphak cin hac juh ?a? pōŋ /

put pan did hot put Sumphak fried did inflate

'..put in the pan wait until it's hot then put Sumphak in and

fried it until inflated.'

[te: lèh ləc tə::?]

/ teh lèh həc tə? /

take down already eat

^{&#}x27;Take it down and you can eat it.'

[la:ju: k awsɔj]
/wila? juh k awsɔj /
'How to cook Khawsooj'

[te: wi: pon pon kəno? kə? pō:n sa:?]

/teh wi? pon pon kəno? kə? pon sa?/

take buy meat meat whatever o.k chop

'Go and buy meat any kind of that is o.k then chop

[sa:?a? ju: ?ələ? te: mak som sɔj?a? te: hɔmlaw taŋkrɔŋŋa?]
/sa? ?a? juh ?ələ? teh mak som sɔj ?a? teh hɔmlaw taŋkrɔŋ ?a? /
chopped do pieces take tomato cut take garlic pounded
'Chop meat into little pieces,bring tomatoes and cut them,bring garlic
and poundit....'

[te: hɔmsək rak sɔj?a? te: p rɛk taŋkrɔŋŋa?]

/teh hɔmsək rak sɔj ?a? teh p rek taŋkrɔŋ ?a? /

take onion cut take chilli pounded

'bring the onion and cut them, bring chillies and pound them.'

[te: ?acim tonna? motmocja? ju: ?wnnaj okan pəchin]

/teh ?acim ton ?a? motmoc ?a? juh ?wnnaj ?wnkan pəchin /

take soybean burnt smashed do piece put on pan

'Bring pieces of dry preserved soy bean ,burning itand smash it

into little pieces; put the pan on the stove....'

som ?um lə?uh som homlaw som homs k rak som pon hocq mcs krak som homs krak som pon/ water lard put garlic put onion 'Put lard in the pan; put garlic, onion, and maet...' makəsom səm ?acim cinnəc ju:?a? hum kraw?a?] /som makasom som ?acim cin hac juh ?a? hum kraw ?a?/ put tomato put soy bean fried did stired cook 'put tomato, soy bean, fry until it is cooked (gives a good smell) and continually stir it.' [som cih som prèk som nampa? cinna? ju:?a? hum] /sɔm cìh sɔm p^hrèk sɔm nampa? cin ?a? juh ?a? hum / put salt put chilli put seasoning power fried did good smell 'put salt, chilli, seasoning powder stir , now it gives a good smell' [pwk?a? leh pwk ?a? leh həc sɔm ?um tumma? ju: kəlɔk] /pwk ?a?leh pwk ?a? leh həc som ?um tum ?a? juh kalok / dipped up already put water boiled do 'Dip it up and then put the water in the pan and boil it.' [soj hom pakci? som kawsoj nan kron som hom] h pakci? sɔm kawsɔj naŋ krɔŋ sɔm hɔm/ cut green onion parsley put noodle in powl put green onion

'Cut green onion into little pieces after that put noodle in the bowl add with cut green onion....'

[som p'akci? som bonna? som ?umna? te: cō:n te: thu? monna?]

som p'akci? som pon ?a? som ?um ?a? teh cōn teh thu? mon ?a?

/ put parsley put meat put water take spoon take chopsticks ate/

'put parsley, meat, water (in the bowl), prepare spoon and chopsticks

at last eat.'

[phlot @in]
/phlot win/

'How to grow and get opium'

[phlot lin pon te?ci? te?ci? paj hal læmma?]

/ phlot win pon te?chi? te?chi? paj hal læm?a?/

grow opium about 1 month 1 month more walk dig

'Grow the opium about one month or more, there will be

grass growing up then we must dig it out.'

[lemma? pō:n tə?cʰi? tə?cʰi? paj ju: kətèŋ]

/ lem ?a? pōn tə?cʰi? tə?cʰi? paj juh kəteŋ /

dig about 1 month 1 month more do big

'After weeding let it grow up about one month or more until it is big.'

[ju: ?ara? nu: jok pæh həl pehha? pehha? tə?ni? ?alni?]
/juh ?ara? nuh jok peh həl peh ?a? peh ?a? tə?ni? ?alni?/
do mature if o.k cut walk cut cut 1 day 2 day
'Then it is mature for cutting . It takes one to two days to cut.'

[ju:hasə?uh həc k ut?a? k ut k ut cəruŋ məj pəle?]

/juh sə?uh həc k ut?a? k ut k ut cəruŋ məj pəle?/

do dry already scraped scrape mix with together

'then dry it; scrape and mix it all together.'

[panna? pɛl ?wŋməl]

/pan ?a? pɛl ?wŋməl /

mold mold rounded

'And then mold it into a small ball size.'

```
[nwmkuh ju: kənɔ?]

/ nwmkuh juh kənɔ?/

'What did you do yesterday?'
```

[nwmkuh nwmnop kwh ?ap kwh ta:?re?]

/ nwmkuh nwmnop kwh ?ap kwh ta?re? /

yesterday morning cook rice cook curry

'Yesterday morning (I) prepared breakfast.'

kwh ta? sum kwh hochec sum /kwh ?ap kwh ta? hochac sum sum sak hac to? kamoh/ cook rice cook curry already eat eat full already cut banana 'Finished preparing food, I ate; after the meal I went to cut bananas (in the garden)'

[?un pō:n həl tɔhalɛŋ ?wc kətəm kɔnsem mɔnna? ?wc]
/?un pōn həl tɔ? lɛŋ ?wc kətəm kɔnsem mɔn ?a? ?wc/
not walk cut long all ripe bird eat all

'I did not go to cut them for many days, so it is ripe and birds ate a lot.'

[to? ?ɛŋ ?al ?oj rw? ?oj pō:n rw? ?eŋ rot həc]
/to? ?ɛŋ ?al ?oj rw? ?ɔj pōn rw? ?ɛŋ rot həc/
cut come 2 3 bunch 3 bunch come to already

'I cut some bunches but could get only three bunches then went home!

[?ɛŋ sə?wt?a? sə?wt?a? hoc həc ?ɛŋ rot həl cən ?um]
/?ɛŋ sə?wt?a? sə?wt ?a? hoc həc ?ɛŋ rot həl cən ?um/
come ripened ripened already come to walk fetch water
'Then ripened them after that went to fetch the water.'

[hal hamni? ju: ?ap ju: ta? re? sum sum sak hac ?i:t]

/hal ham ?i? juh ?ap juh ta? re? sum sum sak hac ?it /

walk bathe we do rice do curry eat eat full already sleep

'We went to take a bath then prepared dinner then had dinner, after that

I slept.'

[cə? kən ni?] |cə? kən ni?|

'To call on my father'

[naŋ cə? kən ni? pɔk ka? naŋ rɔt ?ɛŋ mɛ:saj]

/naŋ cə? kən ?i? pɔk ka? naŋ rɔt ?ɛŋ mɛsaj/

will visit father we get on bus will to come Maesaaj

'(If I)will go to visit my father,I will go on the bus to Maesaaj'

[p'ok ka? nan mesaj to? rot nan chintun]

/phok ka? nan mesaj to? rot nan chintun/
get on bus from Maesaaj continue car to Kentung

'When I reach Maesaaj then I will go on the bus again from Maesaaj to Kentung' $\ensuremath{\mathsf{T}}$

[cen ka? ?wc sa:mrɔj nən c intun tɔ? rot nan kɔnjan]

/ cen ka? ?wc samrɔj nən c intun tɔ? rot nan kɔnjan/

cost bus all 300 from Kentung go on car to Kong Jawng

'It costs 300 bath. From Kengtung I go on the bus again to Kong Jawng.'

[cèŋ ka? ?wc sa:mrɔj nən kɔŋjaŋ ?ɛŋ rɔt naŋ kɔnkaŋ]
|cèŋ ka? ?wc samrɔj nən kɔŋjaŋ ?ɛŋ rɔt naŋ kɔnkaŋ|
cost bus all 300 from KongJawng go to at KoKang
'It costs 300 bath.From KongJawng then go to Kokang.'

[jantin ?en non konkan ?en rot nan sələm]

/ jantin ?en nən konkan ?en rot nan sələm /

go on foot come from Kokang come to at Saloom River

'From Kokang I go on foot to the Saloom River.'

[to? rot nan kontoj ka? jantin nan kontoj hal rot nan mwraj]

/to? rot nun kontoj ka? jantin nan kontoj hal rot nan mwraj /

go on car to Kontooj go on footfrom Kotooj go reach at Mengraaj

'Then go on the bus to Kontooj, from Kontooj go on foot to Menghai .'

[p ok ka? ?wc swnni? cèn ka? ?wc samroj]

p ok ka? ?wc swnni? cèn ka? ?wc samroj/
get on bus all day cost bus all 300

'From Mengraaj get on the bus all day, it costs 300 bath.'

[hal rot ca? kan ni? na:]

/hal rot ca? kan ?i? na?/

go to visit father we f.n.p

'then I can visit my father there.'

[nu: koj kho?nωm naŋ ɲa? re? ?εw leh kuk pāj]

/puh koj kho?nωm ɲan ɲa? ?a?re? ?εw leh kuk pāj /

if have deadman in house we go down call person

'If there is a dead person in our house we might call other people'

[? ϵ g khɔlli? ? ϵ g peh phru? peh ntaj khɔl pəle? cèga?]
/? ϵ g khɔl?i? ? ϵ g peh phru? peh ? ϵ untaj khɔl pəle? cèg ? ϵ a? / come help we come cut shirt cut Phanung help each other sewed
'to come and help us to make a new outfit for the dead...'

[cèŋ?a? hoc hac k uc həm ?ən k uc cəm ?ən həc]

/cɛŋ ?a? hoc həc k uc həm ?ən k uc həm ?ən həc /

sewed already wash(face)bathe he wash bathe he already

'When(we)finish sewing then we washed his face and bathe him'

[khru? khru? ?ən səm ?ən naŋ ntuŋ həl tik ?ən]

/ khru? khru? ?ən səm ?ən naŋ ?wntun həl tik ?ən /

dressed dressed he put he in coffin go leave he

'after that we dress him and put him in the coffin and leave

him (at the temple)'

[poin harsh ni? jat?um hot harsh ni?]

/pon harsh ni? jat?um hot harsh ni?/

about 7 day libate follow 7 day

'For about 7 days (that leaving him) we would libate to him everyday during that 7 days.'

```
k awmon wi: k u?pri:k u:pra?]
wi:
           wi:
                te?
                     wi:
                          h
k awmon
                                   wi? k<sup>h</sup>u?pri?k<sup>h</sup>u?pra? /
                     wi?
/ wi?
           wi?
                t \varepsilon?
                         sweet
                                           fruit
 buy this buy that
                    buy
                                   buy
 'We buy everything : buy sweets, fruits.'
                                              mah k o?kotk o?son
                                         ju:
                                    ?ən
              ?an
                  tantonkom
                               hot
        hot
                                              mah kho?kotkho?sog /
/ jat?um hot
                  tantonkom
                             hot
                                    ?ən
                                         juh
              ?ən
 libate follow he amerit make follow he do call
                                                     oldman
                        merit following him and then call an old man...
 'we libat
             and made
                                       ?ən
                                            sanmonni? ?an te: leh
           tuŋ
                 ?ən
                           wa:t
rin
                      naŋ
                                 nu:
rin ?en
                                       ?an saŋmon ?i? ?an teh leh /
           tuŋ
                 ?∂n
                      naŋ
                           wat
                                 puh
                           temple if he die(older)we he take down
 bring he burry he
                      in
 'to bring him and bury
                          him at the temple. If he had a dead
   ancestor or cousin'
som maj nan
               kah
/ som maj nan kah(?wntun) /
 put with in
                coffin
 'we might bury him near his ancestor.'
                ntaj wi: pru? wi: cερ wi: k op wi: nkat]
tantonkom wi:
/tantogkom wi? ?wntaj wi? pru? wi? cep wi? kop wi?
           buy Phanung buy shirt buy shoes buy socks buy
 a merit
          merit (Tantonkom) we might buy Phanung, shirt, shoes, socks, cloth
 'Making
```

[wi: pija? wi: k rɔŋ wi: t alhəj wi: cɔ̄:n wi: səlɛk]

/wi? pija? wi? k rɔŋ wi? t alhəj wi? cɔ̄n wi? səlɛk /

buy bag buy bowl buy plate buy spoon buy cigarette

'and buy bag,bowl,plate,spoon,cigarette....'

[wi: k awmo:n to?tɛ? tantonkom hoc ?ən]

/wi? k awmon to?tɛ? tantonkom hoc ?ən /

buy sweet whatwhat Tantongkom all f.n.p

'and buy sweet..everything..that is all.'

^{2 ?}wŋkat 'a long black cloth for using to wind around the head.'

[kəməh ja; ?u? kəmi? kə? nwm tik ka?]
| kəməh ja? ?u? kəmi? kə? nwm tik ?a? |
| that's grandma I husband die leave
| 'That is my grandmother, her husband died.'

[la: ?an nu: p aw num tik li? la: ?an nu: ?un ncella?ti?]
/la? ?an nuh p aw num tik ?i? la? ?an nuh ?un ?uncel ?i?/
that he why hurry die leave we that he why not pity we
'She says why did he hurry to die and leave us alone, why did he not pity us.'

[la: ?an nu: ?un ncel lakonni? lannu: p aw nwm tikti?]

/la? ?an nuh ?un ?wncel lokon ?i? la? nuh p aw nwm tik ?i? /

that he why not pity son our that why hurry die left we

'Why did he not pity our son and why did he hurry to die.'

[kan hok ku?ri? nan canæa?]

/kah hok ku? ?u?ri? nan canwa?/

give rise wait I at heaven

'Please go to the heaven and wait for me there.'

[nu:li?kɔt nu:li?nwm həlləc nan kan hok hɔt mi? nan canīda?]

/ nuhli?kɔt nuhli?nwm həl həc nan kah hok hɔt mi? nan canīda?]

why old why die go already at give rise follow you to heaven

'why did you hurry to be old, hurry to die then go first and I

would follow you and met you in the heaven.'

[lannu: nku?ri? tə? tə? kwh kənni? sum ?əp kənni?]

/la? nuh ?un ku? ?u?ri? tə? kwh kən ?i? sum ?əp kən ?i? /

that why not call I eat curry son we eat rice son we

'why did he not wait for me, why did he not take food that

our son cooked.'

[nu:li? ?un ku: ti? nok na:sag konni? nuli? phaw num tik ti?]

/nuhli? ?un ku? ?i? nok na?sag kon ?i? nuhli? phaw num tik ?i? /

why not call we watch marry son we why hurry die leave we

'why did you not wait and see our son to get married, and why did you

hurry to die and leave us.'

[lannu: ?un məh li? kan hok ku? naŋ canæa?]
/la? nuh ?un məh ?i? kah hok ?u? naŋ canwa?/
that why not love we give rise I at heaven

'why did you not love us so you went up and to wait for me at heaven.'

[lannu: num hal kannan con ?u? kon kan hok hot nan canæa?]

/la? nuh num hal kah nan con ?u? kon kah hok hot nan canwa?/

that why die go give to persuade son give rise follow to heaven

'why did you died first did not persuade our son and me to follow you to the heaven.'

[nu:li? k rwp nan canæa? la:nnu: jan ?wc maj pale?]

/ nuhli? k rwp nan canwa? la? nuh jan ?wc maj pale?/

if meet at heaven that if all with together

'if(we) meet at the heaven (we) will stay together'

```
kon nag hot pale? tamtak nu:li? nwm hal
/kon nan hot pale? tamtak puhli? num hal/
 son willfollow together again why die go
'and our son will follow too...why did you die.'
[nu:li? hok k rwp nan canta?]
/puhli? hok k^hrwp nan canwa?/
    if rise meet
                   at
                       heaven
 'If I go up to the heaven and meet you
[nu:li? pon hok muk maj pale? tem ta?pak hac]
/puhli? pon hok muk maj pale? tem ta?pok hac/
         go up stay with together again onetime already
 if
 'if (I) go up we will stay together once again'
[?alaj kɔn naŋ ?wc məj pəle?]
/?aləj kon nan ?wc məj pəle?/
       son will all with together
 and
'and all of our sons will stay with us too.'
```

001486