

BURMESE MON, THAI MON, AND NYAH KUR: A SYNCHRONIC COMPARISON

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In 1970-71 I collected data on three Monic languages (as well as on twelve other Mon-Khmer languages in Thailand, Laos, and Cambodia) under a Guggenheim fellowship: a dialect of Mon from Moulmein, Burma; a dialect of Mon from Thonburi Province of Thailand; and a dialect of Nyah Kur (Chaobon) from Chaiyaphum Province of Thailand. Although data from the above three languages have contributed in a marginal way to four previous articles (Huffman 1976a, 1976b, 1977, and 1978), the total data have never been published. The purposes of this article, then, are

- 1) to present a synchronic phonological analysis of each of the above three languages;
- 2) to make some rudimentary comparisons of the three languages in terms of cognate percentages and phonological systems; and
- 3) to provide a comparative 900-word vocabulary of the three languages as a source of data for the historical reconstruction of Monic languages.

1. Phonological Analysis

1.1. Burmese Mon

My informant for Burmese Mon was Mr. Tan Suwanna, 27 years of age; he was born in Sangkharaburi, Kanchanaburi Province of Thailand, but at the age of three moved to Moulmein, Burma, and was educated through secondary school in Moulmein and Rangoon. He then returned to Thailand overland at the age of 27. The dialect studied here appears to be somewhat different from that represented in Shorto 1962.

1.1.1. Consonants

This dialect of Mon has the following inventory of initial consonants; only those consonants preceded by (-) occur finally.

/-p	-t	-c	-k	-?
b	d			
f	s			-h
-m	-n	-ŋ	-ɳ	
w	l	-y		r/

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- Notes:**
- 1) Voiceless stops are tense before tense (1st register) vowels and partially voiced before lax (2nd register) vowels (see 1.1.2.).
 - 2) /b d/ are pronounced with light preglottalization [?b ?d].
 - 3) /w/ is [β] before lax vowels, [ɸ] before tense vowels.
 - 4) There is no /-t -n/ = /-c -ŋ/ contrast after /i ī/, but since the articulatory position is similar to that of /-c -ŋ/ after /a o ö a/ (where dental vs. palatal contrasts do occur), they are here analyzed as /-c -ŋ/ after /i ī/.

1.1.1.1. Initial Clusters

Based on the present corpus of some 1,000 words, the following clusters occur in this dialect (the numbers correspond with the examples listed in Table 1a):

	h	r	l	w	y	m	n
p	1	2	3		4		
t		5					
c		6					
k	7	8	9	10			
h			11			12	13
ph					14		
kh			15				

1)	/phoa/	full	2)	/preaŋ/	buffalo
3)	/plae/	male	4)	/pya/	blue
5)	/thot/	strong	6)	/cheh/	horse
7)	/khah/	good	8)	/krip/	run
9)	/klon/	do	10)	/kwan/	village
11)	/hloa/	wide	12)	/hman/	ask
13)	/hnean/	feather	14)	/phya/	market
15)	/khra/	widely spaced			

Table 1a: Examples of initial consonant clusters in Burma Mon

1)	/phoa/	full	2)	/prea/	female
3)	/plae/	young (man)	4)	/tha?/	throw
5)	/chu/	write	6)	/khok/	cup
7)	/kraoh/	male	8)	/klan/	much
9)	/kwan/	village	10)	/kyo/	wind
11)	/hloa/	full	12)	/hya/	market
13)	/hman/	ask	14)	/hnam/	skin
15)	/phreŋ/	cavity	16)	/phlan/	fire
17)	/khlan/	sad			

Table 1b: Examples of initial consonants clusters in Thai Mon

1.1.2. Vowels

Burmese Mon vowels can be analyzed in terms of the following nine segmental phonemes:

/ i		u
e	ə	o
ɛ	a	ɔ
		a /

Diphthongs can then be analyzed as sequences of the above phonemes:

/ ea, oa, ae, ao, ae /

To this inventory must be added a phoneme of register `/'. Mon is a "register" language; i.e. every vowel can be assigned unambiguously to one of two "registers" or "manners" or "phonation types" (see Huffman 1976b):

- 1) a "tense", "clear", or "head" manner (usually called 1st register), or
- 2) a "lax", "breathy", or "chest" manner (usually called 2nd register).

In this analysis (and in fact throughout this paper) we shall call these two registers "tense" and "lax"; tense vowels will be unmarked while lax vowels will be marked with a grave accent `/'. All vowels and diphthongs occur both tense and lax except /ɔ, a, ao, ae /, resulting in the following 24 vowel nuclei:

Simple vowels			Diphthongs		
/i, ̄i	u, ̄u	/ea, ̄ea	oa, ̄oa		
e, ̄e	o, ̄o		ae, ̄ae	ao	
ɛ, ̄ɛ	ɔ		ae/		
	a/				

Notes: 1) Throughout this paper, laxness will be represented phonetically by underlining. Following are examples of minimal contrasts involving only register for Burmese Mon:

/ci?/	[c [‡] i·?]	'thoroughly'	#	/c̄i?/	[c [‡] i·?]	'poison'
/tu/	[tu:]	'hammer'	#	/t̄u/	[tu:]	'knee'
/sae/	[sə< [‡] i]	'bee'	#	/s̄ae/	[sa·ε]	'slender'
/kloc/	[klo [‡] c]	'pig'	#	/kl̄oc/	[klo [‡] c]	'sarong'
/hnok/	[hnok]	'to itch'	#	/h̄nok/	[hnok]	'big'

/ləh/ [lə<ጀh] 'foolish' ≠ /lèh/ [ləጀ<.h] 'to dance'
 /kwan/ [kɸa<n] 'village' ≠ /kwàn/ [kβa.n] 'to climb'
 /krop/ [krop] 'tile' ≠ /kròp/ [kroጀ.p] 'thing'

- 2) Length is not structurally contrastive in Mon.
- 3) /i, ì/ in all positions involve an on-glide from a high central position, e.g.:

/kwi/ [kɸጀi:] 'cart' ≠ /kwi/ [kβጀi:] 'to wrap'
- 4) /e, è/ are high front [i] in position but involve no diphthongization, e.g.:

/ket/ [kɪጀt] 'take' ≠ /cèt/ [cጀ.t] 'pure'
- 5) /ɛ, è/ are lower-mid [ɛ̂] in quality; the tense and lax distinction is extremely difficult to hear in this position, and the two may be coalescing, e.g.:

/kɛt/ [kɛጀt] 'short hair' ≠ /kèt/ [kɛጀ.t] 'revolve'
- 6) /ə, è/ have an offglide to a front mid position [əጀ] before /-∅/ and /-ʔ/, e.g.:

/təʔ/ [təጀʔ] 'yonder' ≠ /tèʔ/ [tጀጀʔ] 'to quit'
- 7) /ea, èa/, parallel with /oa, òa/, are relatively high, and could alternatively be reinterpreted as /ia, ìa, ua, ùa/, especially as there is no /ia ≠ ea/ or /ua ≠ oa/ contrast in Burmese Mon as there is in Thai Mon; however the former analysis is phonetically more accurate.
- 8) [u.i], [u.i] and [o.i] are interpreted as /uy, ùy, oy/, as they are never followed by another final consonant.
- 9) /a, o, ò/ have a high front off-glide [vጀ] before palatals /-c -n/, e.g.:

/dac/ [dጀጀc] 'water' ≠ /tac/ [tጀጀc] 'to weave'
 /can/ [caጀጀn] 'chicken' ≠ /mòn/ [mጀጀn] 'to hear'
- 10) /ɔ, a, ao, ae/ have no lax counterparts.

1.1.2.1. Allophonic Distribution Chart for Burmese Mon Vowels

A chart of this kind, as shown in Figure 1, provides the following kinds of information:

- 1) specifies the positional variants (allophones) of vowels before all finals;
- 2) throws into relief the complementary distribution of allophones, thereby justifying the analysis; and
- 3) shows phonological distribution of vowels with finals.

Such a chart can be made even more powerful by including actual examples in each slot, but the length of this paper precludes doing so. In any case, the phonetic realization of any lexical item in phonological transcription in the final Glossary of this paper can be unambiguously reconstructed by reference to the above chart and to the phonetic information on consonants in section 1.1.1.

/i/	[<u>ɛ</u> i:]	<u>ɛ</u> ip	<u>ɛ</u> ic	<u>ɛ</u> i?	<u>ɛ</u> ih	<u>ɛ</u> i·h	<u>ɛ</u> i·m	<u>ɛ</u> i·n
/ʌ/	[<u>ɛ</u> i: <u>ɛ</u> i·p]	<u>ɛ</u> i·p	<u>ɛ</u> i·c					
/e/	[<u>ɛ</u> ɔ: [<u>ɛ</u> ɔ:p]	<u>ɛ</u> ɔ:p	<u>ɛ</u> ɔ:t			<u>ɛ</u> ɔ:h	<u>ɛ</u> ɔ:m	<u>ɛ</u> ɔ:n
/ɛ/	[<u>ɛ</u> ɔ: [<u>ɛ</u> ɔ:p]	<u>ɛ</u> ɔ:p	<u>ɛ</u> ɔ:t			<u>ɛ</u> ɔ:h	<u>ɛ</u> ɔ:m	<u>ɛ</u> ɔ:n
/ε/	[<u>ɛ</u> ɔ: [<u>ɛ</u> ɔ:p]	<u>ɛ</u> ɔ:p	<u>ɛ</u> ɔ:t	<u>ɛ</u> ?	<u>ɛ</u> h	<u>ɛ</u> ɔ:h	<u>ɛ</u> ɔ:m	<u>ɛ</u> ɔ:n
/ɛ:/	[<u>ɛ</u> ɔ: [<u>ɛ</u> ɔ:p]	<u>ɛ</u> ɔ:p	<u>ɛ</u> ɔ:t	<u>ɛ</u> ?	<u>ɛ</u> h	<u>ɛ</u> ɔ:h	<u>ɛ</u> ɔ:m	<u>ɛ</u> ɔ:n
/ə/	[<u>ɛ</u> e: [<u>ɛ</u> e:p]	<u>ɛ</u> e:p	<u>ɛ</u> e:t	<u>ɛ</u> ?	<u>ɛ</u> h	<u>ɛ</u> e:h	<u>ɛ</u> e:m	<u>ɛ</u> e:n
/ə:/	[<u>ɛ</u> e: [<u>ɛ</u> e:p]	<u>ɛ</u> e:p	<u>ɛ</u> e:t	<u>ɛ</u> ?	<u>ɛ</u> h	<u>ɛ</u> e:h	<u>ɛ</u> e:m	<u>ɛ</u> e:n
/a/	[<u>a</u> ɔ: [<u>a</u> ɔ:p]	<u>a</u> ɔ:t	<u>a</u> ɔ:c	<u>a</u> ɔ:v?	<u>a</u> ɔ:h	<u>a</u> ɔ:n	<u>a</u> ɔ:m	<u>a</u> ɔ:n
/ɑ/	[<u>a</u> ɔ: [<u>a</u> ɔ:p]	<u>a</u> ɔ:p	<u>a</u> ɔ:c	<u>a</u> ɔ:k	<u>u</u> ?	<u>u</u> h	<u>u</u> n	<u>u</u> n
/u/	[<u>u</u> : [<u>u</u> :p]	<u>u</u> :p	<u>u</u> t	<u>u</u> ?	<u>u</u> h	<u>u</u> m	<u>u</u> n	<u>u</u> y
/ʊ/	[<u>u</u> : [<u>u</u> :p]	<u>u</u> :p	<u>u</u> t	<u>u</u> ?	<u>u</u> h	<u>u</u> m	<u>u</u> n	<u>u</u> y

Figure 1: Allophonic distribution in Burma Mon

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

/o/	[o:]	op	ot	o'k	o?	oh	o.m	o.n	o.y
/ɔ/	[ɔ:]	ɔp	ɔt	ɔ'k	ɔ?	ɔh	ɔ.m	ɔ.n	ɔ.y
/c/	[ɔ:]	ɔp	ɔt	ɔ'k	ɔ?	ɔh	ɔ.m	ɔ.n	ɔ.y
/a/	[a:]	ap	at	a'k	a?	ah	a.m	a.n	a.y
/ea/	[e^·a^·]	eak	e?	eh	e·r	ea	e·k	e·r	e·y
/ɛa/	[e^·a^·]	eak	e?	eh	e·r	ea	e·k	e·r	e·y
/oa/	[o^·a^·]	oak	o?	oh	o·m	o.n	o·y	o·y	o·y
/ɔa/	[o^·a^·]	oak	o?	oh	o·m	o.n	o·y	o·y	o·y
/ae/	[a·ε·]	aε	a?	ah	a·m	a.n	a.y	a.y	a.y
/æe/	[a·ε·]	aε	a?	ah	a·m	a.n	a.y	a.y	a.y
/ao/	[a·ɔ·]	aɔ	a?	ao	a·m	a.n	a.y	a.y	a.y
/æe/	[a·ε·]	aε	a?	ao	a·m	a.n	a.y	a.y	a.y

Figure 1, continued.

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

1.1.3. Syllable Structure

Burmese Mon phonological words consist either of a single stressed syllable of the structure /C(C)(C)V(V)(C)/, or of such a syllable preceded by an unstressed presyllable of the structure /CV-/. In such presyllables the vowel is almost invariably /a/ (varying in quality between [a] and [ə]), with several occurrences of /?i-/; e.g.:

/pasqñ/	[p ^a só ⁱ ñ]	~	[pəsó ⁱ ñ]	'five'
?inae/	[?i?ná•ε]	~	[?iná•ε]	'aunt (Fa01Si)'

Thus the syllable structure of Mon can be stated as (CV)C(C)(C)V(V)(C), with /CV/ as the minimal syllabic unit.

1.2. Thai Mon

My informant for this dialect was Mr. Khema Thepawan, 45 years of age. He was born and lived all his life in Bangkradi, Tambol Samedam, Amphoe Bang Khun Thian, Thonburi Province. Bangkradi is a village of some 2,000 inhabitants where even the children still speak Mon in the village, in spite of education in Thai. Mr. Khema had some renown as a singer of Mon folk songs, and had appeared on television presentations on Mon culture and traditions.

1.2.1. Consonants

Bangkradi Mon has the following inventory of initial and final consonants (those consonants preceded by [-] occur also finally):

/-p	-t	-c	-k	-?
b	d			
-m	-n	-ñ	-ŋ	
f	s			-h
-w	l	-y		
		r/		

- Notes:**
- 1) Voiceless stops are tense before tense vowels and partially voiced and lax before lax vowels (although less so than in Burmese Mon).
 - 2) /b d/ are slightly preglottalized [?**b** ?**d**].
 - 3) /f/ is [ϕ^W] before tense vowels and [β^W] before lax vowels.
 - 4) [š] is analyzed as /hy-/ , parallel with /ky-/.
 - 5) Although there is no dental ≠ palatal contrast after /i, ī, u, ū/, finals in this position are analyzed as /-c -ɲ/, as they are phonetically similar to /-c -ɲ/ after /ə, a, ɔ, ɑ/, where dental ≠ palatal contrasts do occur.

1.2.1.1. Initial Consonant Clusters

Based on the present data, Bangkradi Mon has the following initial clusters (the numbers correspond with the examples listed in Table 1b):

	h	r	l	w	y	m	n
p	1	2	3				
t	4						
c	5						
k	6	7	8	9	10		
h			11		12	13	14
ph		15	16				
kh			17				

The three-place initials /phr-/, /phl-/, and /khl-/ are apparently introduced solely by Thai loans.

1.2.2. Vowels

Bangkradi Mon has the following nine vowel phonemes:

/i		u
e	ə	o
ɛ	a	ɔ
a/		

Like Burmese Mon, Bangkradi Mon is a register language; tense (1st register) vowel nuclei are unmarked while lax (2nd register) vowel nuclei are marked by a grave accent '/'. The combination of the above segmental phonemes with the phoneme of (lax) register produces the following inventory of 27 vowel nuclei:

Simple vowels			Diphthongs		
/i, i̥	u, ù	/ia, iḁ	ua, ùa		
e, è	o, ò	eḁ	oa, òa		
ɛ, è̥	ɔ	ae, àe	ao		
a/		ae̥/			

A 28th nucleus /ia/ is apparently introduced purely by Thai loans. The phonetic quality of the above nuclei is specified in the following Allophonic Distribution Chart; however we can make the following comments and generalizations:

- 1) Following are some examples of minimal contrasts involving register only:

/kwi/ [kw [‡] i:]	'cart'	/kwi/ [kw [‡] i:]	'to wrap'
/pəŋ/ [pə•ŋ]	'cooked rice'	/pəŋ/ [pə•ŋ]	'stomach'
/krat/ [krat]	'to wash'	/krat/ [krat]	'to sow'
/krop/ [kro [‡] p]	'tile'	/krop/ [kro [‡] p]	'thing'
/sae/ [sa. [‡] ɛ]	'bee'	/sæe/ [sa. [‡] ɛ]	'slender'
/tak/ [ta [‡] k]	'to strike'	/tak/ [ta [‡] k]	'poor'
/cuc/ [cu [‡] c]	'to put'	/cuc/ [cu [‡] c]	'bone'
/haton/[həto [‡] n]	'to study'	/haton/[həto [‡] n]	'bridge'

- 2) Vowel length is not contrastive.

- 3) /ɔ, a, ao, ae, ia/ have no lax counterparts; /ea/ has no tense counterpart.

- 4) [u·ɪ, u·ɪ] and the infrequent [o^e, o·e] are interpreted as /uy, ùy, oy, òy/, as they are never followed by another final.
 - 5) Bangkradi Mon has the contrasts /ia, īa/ ≠ /èa/ and /ua, ùa/ ≠ /oa, òa/, as in

/ciak/ [ci ^a k] 'gt.-gt.-	/yiak/ [y ^a k] 'smoke'
grandchild'	/hacèak/[hace ^a k] 'to drag'
/ŋua/ [ŋu•a] 'day'	/mùa/ [mu•a] 'one'
/phoa/ [pho ^a] 'full'	/pròa/ [pro•a] 'rain'

The diphthongs /ia, ɿa, ua, ɿa/, lacking in Burmese Mon, may have been introduced by Thai loans and then have spread by contagion to certain Mon-Khmer roots.

- 6) /i, ɿ/ in all positions have a high central on-glide [ɿi].

7) /e, ɿ/ are high mid [e^] while /ɛ/ is lower-mid [ɛ`]; /ɛ/ is low [æɛ] and appears to occur only in Thai loans.

8) The mid and low vowels /ə, ɻ, a, à, u, ù, ɔ, ɑ/ have the familiar high front off-glide before palatal finals /-c -ɲ/; e.g.:

/kləc/ [klə• ⁱ c] 'pig'	/klɻc/ [klə• ⁱ c] 'sarong'
/kapac/ [kəpa• ⁱ c] 'side'	/pàc/ [pa• ⁱ c] 'to hack'
/cuc/ [cu• ⁱ c] 'to put'	/cùc/ [cu• ⁱ c] 'bone'
/?assn/ [?ass• ⁱ n] 'five'	/pan/ [pa• ⁱ n] 'full'

9) /e, o/ as second elements of diphthongs are notably low in quality, e.g.:

/sae/ [sa• ^ɛ] 'bee'	/sàe/ [sa• ^ɛ] 'slender'
/kao/ [ka• ^ɔ] 'flower'	/tae/ [ta• ^ɔ] 'already'

10) /ɔ/ has a fronted onset in some positions, e.g.:

/tɔh/ [tɛɔh]

1.2.2.1. Allophonic Distribution Chart for Bangkradi Mon

The following chart shows both allophonic (phonetic) and phonological distribution of Bangkradi Mon vowels with finals. The chart can also be used, along with the preceding phonetic

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description of the consonants, to reconstruct the phonetic realization of any lexical item in the final Glossary. (See Figure 2.)

Figure 2: Allophonic distribution in Thai Mon

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/ia/	[i ^a]
/i ^a a/	[i ^a ·a	i ^a · ^a p]
/e ^a a/	[e ^a ·a]
/ua/	[u·a]
/u ^a a/	[u ^a ·a]
/oa/	[o ^a ·a]
/o ^a a/	[o ^a ·a]
/ae/	[a·ε]
/a ^e e/	[a ^e ·ε]
/ao/	[a·ɔ̄]
/ae/	[a·ε̄]
/i ^a a/	[i ^a ·a]

u^an

a^on

a^{ɔ̄}t

a^{ε̄}t

a^{ε̄}t

e^at

e^an

e^a? e^an

i^an i^a?

i^aŋ i^aŋ

i^aw i^aw

i^aŋw i^aŋw

Figure 2, continued (diphthongs).

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

1.2.3. Syllable Structure

The syllable structure of Thai Mon appears to be basically identical with that of Burmese Mon, i.e. (CV)C(C)(C)V(V)(C), with /CV/ being the minimal syllabic unit.

1.3. Nyah Kur of Ban Wang Ai Pho

My informant for Nyah Kur was Mr. At Yumchaturat, 29 years old, of Ban Wang Ai Pho, Tambol Na Yang Krak, Amphoe Bamnech Narong, Chaiyaphum Province. The village of about 200 inhabitants, is located some 30 kilometers north of Huay Yai Chiu on the railway line, and was reached by logging truck. Referred to by the Thai as "Chaobon" ("upland people"), they call themselves /nah-kur/ or "mountain people."

1.3.1. Consonants

Nyah Kur has the following inventory of initial consonants; all consonants except /b d/ occur also finally.

/-p	-t	-c	-k	-?
b	d			
	-s			-h
-m	-n	-ŋ	-ŋ	
-w	-l	-y		
	-r/			

Notes: 1) /p t c k/ are tense and unaspirated [C] before tense (1st register) vowels, but lax and slightly aspirated [C'] before lax (2nd register) vowels; the latter are however in contrast with fully aspirated initials (here treated as clusters /Ch-/, as shown in Figure 3a.

2) /c/ and /s/ appear to be in almost free variation in initial position, probably resulting from an earlier coalescence between them, with /s-/ perhaps reintroduced by Thai loans. However, there is a clear contrast between them in final position, where /-c/ is realized as [¹c] and /-s/ as [¹x] ~ [¹h] as opposed to /-h/, which is simply [h], as shown in Figure 3b.

/pɔk/	[pɔk]	'to open'	#	/təpɔk/[təp'ɔk]	'to trade'	#	/phɔk/[pʰɔk]	'shirt'
/cas/	[caix]	'ten'	#	/càs/[c'ḁix]	'fever'	#	/chac/[chḁc]	'fruit'
/cuh/	[cuh]	'to insert'	#	/cùr/[c'ur]	'female'	#	/chur/[chur]	'dog'

Figure 3a: Nyah Kur initial unaspirated and aspirated stops

/cah/	[cah]	'gt.-grandson'	#	/cas/[cḁx]	'ten'	#	/chac/[chḁc]	'fruit'
/lə?uh/	[lə?uh]	'cooked'	#	/lə?us/[lə?uʂ]	'ripe'	#	/ɳùuc/[ɳuʂ]	'swallow'

Figure 3b: Nyah Kur final /-h/, /-s/, and /-c/

1.3.1.1. Initial Consonant Clusters

Clusters recorded for Nyah Kur are shown in Figure 4; further data might produce others; the numbers correspond with the examples which follow immediately below.

1)	/phar/	to fly	2)	/prak/	money
3)	/thuas/	knock down	4)	/traw/	six
5)	/chuun/	five	6)	/khal/	bowl
7)	/kroon/	under	8)	/kliij/	long
9)	/kwaan/	wide	10)	/mraa?/	wound
11)	/mpoh/	seven	12)	/mmok/	hoe
13)	/mplap/	to fib	14)	/mbran/	door
15)	/nti1/	sand	16)	/nciit/	nine
17)	/nchoon/	ox	18)	/njur/	hearth
19)	/ŋkoo/	rice	20)	/ŋkraaw/	after
21)	/hrac/	harvest	22)	/hlaa?/	leaf
23)	/hwaa?/	flesh	24)	/hmuac/	ant
25)	/hnap/	good	26)	/phrèy/	rain
27)	/phlùk/	ivory	28)	/phcuu?/	elder
29)	/phnoom/	forest	30)	/phsaa/	language
31)	/phchey/	iron	32)	/thriñ/	bat
33)	/thwìt/	forget	34)	/thnuu/	bow
35)	/chrìh/	to fall	36)	/chluut/	bone
37)	/chwii?/	left	38)	/chmit/	to rub
39)	/chnoɔk/	itch	40)	/chŋay/	far
41)	/ch?uy/	spoiled	42)	/chkhrùñ/	laugh
43)	/khrèp/	forest	44)	/khlañ/	deaf
45)	/khyoo?/	sell	46)	/khwàal/	guard
47)	/khmìñ/	hear	48)	/khnií/	rat
49)	/khŋàay/	to chew			

	h	r	l	y	w	p	t	c	k	m	n	ŋ	s	?	pl	kr	br	ph	th	ch	kh	kr
p	1	2																				
t	3	4																				
c	5																					
k	6	7	8	9																		
m		10			11																	
n						15																
n							18															
h								21	22	23					24	25						
ph									26	27					28	29						
th										32	33					34						
ch											35	36	37			38	39	40	41			
kh												43	44	45	46		47	48	49			
																					42	
																						31

Figure 4: Initial consonant clusters in Nyah Kur

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

Notes: 1) Apparently voiceless stops before /l/ or /r/ may be pronounced with or without intervening vocalism, e.g.:
/klin/[klɪn ~ k^əlin] 'oil' /traw/[trao ~ t^ərao] 'six'

However there is clearly a contrast between /CC-/ and /ChC-/ initials, as in

*/klin/ [klɪn ~ k^əlin] 'oil' ≠ /khliic/ [k^hli:i:c] 'pig'
 /kras/ [kra:ⁱs ~ k^əra:ⁱs] 'sweep' ≠ /khraat/[k^hra:t] 'to rake'*

2) There is also apparently a three-way contrast between /CC-/ ≠ /C^hC-/ ≠ /ChC-/, e.g.:

*/kwaan/ 'wide' ≠ /kewaan/ 'to throw' ≠ /khwaal/ 'to guard'
 /hmuac/ 'ant' ≠ /kemat/ 'fire' ≠ /khmay/ 'to see'*

3) [C^hCV-] and [C'CV-] are phonetically similar as to initial cluster (and perhaps indistinguishable in rapid speech); they are both therefore analyzed as /ChC-/, with register contrast shown only on the following vowel, especially as they are in complementary distribution with regard to following vowel register; e.g.:

*/chwii?/ [c^hwi:?] 'left' ≠ /chwak/ [c'wak] 'to hook'
 /chrim/ [c^hrim] 'bean' ≠ /chrih/ [c'rih] 'to fall'*

1.3.2. Vowels

This dialect of Nyah Kur can be analyzed in terms of the following nine segmental vowel phonemes:

/i	ɪ	u
e	ə	o
ɛ	a	ɔ/

Nyah Kur, unlike Mon, has contrastive vowel length; short vowels are written as single vowels /V/, while long vowels and diphthongs are written as sequences of vowels /VV/. Following are some examples of minimal pairs involving only vowel length:

*/t^ʃil/ [t^ʃi:l] 'thigh' ≠ /t^ʃiil/ [t^ʃi:i:l] 'dull'
 /hnam/[hnam] 'hut' ≠ /hnaam/[hna:m] 'skin'
 /chur/[c^hur] 'dog' ≠ /chuur/[c^hu:r] 'to whet'
 /tɔŋ/[tɔŋ] 'must(T)' ≠ /tɔɔŋ/[tɔ:ŋ] 'time, occasion'*

In spite of the fact that vowel length contrast is clearly a basic structural feature of this language, minimal pairs of the above kind are surprisingly hard to find. This may be due to widespread displacement of native vocabulary by Thai loans; almost 25% of the some 1,000 words of basic vocabulary elicited are Thai (or Lao) loans.

Since Nyah Kur, like Mon, is a register language, all short and long vowels and diphthongs occur on both registers, resulting in a total of 42 different vowel nuclei, as follows:

Front	Central	Back
i, ì, ii, ìi; ia, ìa	í, ìí, ìì; ía, ìá	u, u, uu, uu; ua, ua
e, è, ee, èe	ø, ò, øø, èè	o, ò, oo, òò
ɛ, è, εε, èε	a, à, aa, àà	ɔ, ò, ɔɔ, òò

Notes: 1) Following are some minimal pairs which involve only register contrast:

/ciir/ [ci:r] 'to dig'	/ciir/ [c'i:r] 'to hunt for'
/cεəŋ/ [cε:n] 'bright(T)'	/cèəŋ/ [c'ε:n] 'to insult(T)'
/khləŋ/ [khlən] 'deaf'	/khlèŋ/ [k'lə:n] 'much, very'
/cas/ [caːx] 'ten'	/càs/ [c'aːx] 'fever'
/kɔɔk/ [kɔ:k] 'white'	/kòɔk/ [k'ɔ:k] 'fence(T)'

Note that two of the above minimal pairs involve Thai loans.

2) The informant referred to tense (1st register) words as /thmàr khyaal/ 'light words', and to lax (2nd register) words as /thmàr khchèŋ/ 'heavy words'. 'Light' words with long vowels are accompanied by a (as yet non-contrastive) high-falling tone, while 'heavy' words with long vowels are characterized by a low level tone, lax quality, and breathiness which carries throughout the word. Short vowels ending in stops, whether light or heavy, have a high level tone. Most Thai loans with long vowels seem to adapt to the high-falling pattern, e.g.:

/kheən/ [k^hε:n] 'arm'	/khoɔŋ/ [k^hɔɔ:n] 'thing'
(/luan/ [lu.aŋ] 'king' is an exception.)	

Thai loans with short vowels and rising tone seem to retain their rising tone in Nyah Kur, e.g.:

/thay/ [t^hai] 'to plow'

/mun/ [mun] 'to spin'

The informant suggested that Thai loans which keep their original tones are not yet fully assimilated.

- 3) The short vowels /e, è, o, ò/ are severely limited in distribution, and occur primarily in Thai loans; the diphthongs /ia, ìa/ are introduced purely by Thai loans.

1.3.2.1. Allophonic Distribution Chart for Nyah Kur

The phonetic realization of all words in the final Glossary can be reconstructed by reference to the following chart (Figure 5) and to the preceding discussion; the chart also shows the phonological distribution of Nyah Kur vowels vis-à-vis finals.

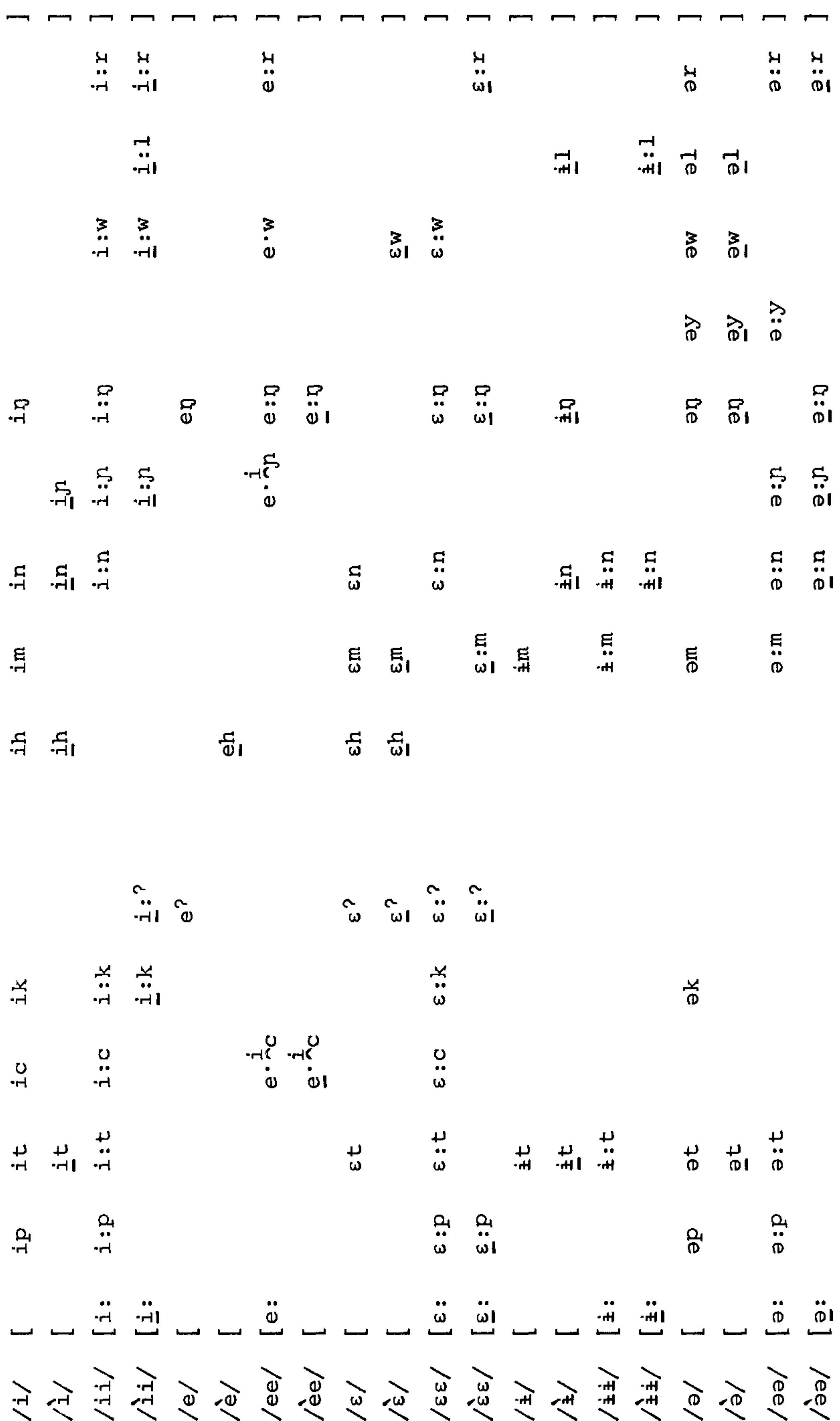


Figure 5: Allophonic distribution in Nyah Kur

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

/a/	[ap	at	a ⁱ c	ak	a?	a ⁱ s	ah	am	an	a ⁱ n	ao	ay	aw	ay	aw	al	ar	ar]
/à/	[	ap	at	a ⁱ c	ak	a?	a ⁱ s	a?	a:m	a:n	a: ⁱ n	a:y	a:w	a:l	a:y	a:w	a:r	a:r]
/aa/	[a:	a:p	a:k	a: ⁱ c	a:k	a: ⁱ ?	a: ⁱ s	a?	a:m	a:n	a: ⁱ n	a:y	a:w	a:l	a:y	a:w	a:r	a:r]	
/àa/	[a:	a:p	a:t	a: ⁱ c	a:k	a: ⁱ ?	a: ⁱ s	a?	a:m	a:n	a: ⁱ n	a:y	a:w	a:l	a:y	a:w	a:r	a:r]	
/u/	[				uk	u?	u ⁱ s	uh	un	un	u ⁱ n	uy	ul	ur	ul	ur	ur]	
/ù/	[	up			uk	u?	u ⁱ s	uh	um	um	u ⁱ n	uy	u:r	u:r	u:r	u:r	u:r]	
/uu/	[u:		ut		uk	u?	u ⁱ s	uh	u:n	u ⁱ n	u ⁱ n	u:y	u:1	u ⁱ y	u:1	u ⁱ y	u:y	u:y]	
/ùu/	[ù:	up	ut	u ⁱ c	u:k	u?	u ⁱ s	uh	u ⁱ n	u ⁱ n	u ⁱ n	u:y	u:1	u ⁱ y	u:1	u ⁱ y	u:y	u:y]	
/o/	[				ok	o?	o?	ot	on	on	on	om	o:	o:m	o:	o:m	o:y	o:y]
/ò/	[				ok	o?	o?	ot	o:k	o:?	o:?	o:m	o:	o:m	o:	o:m	o:y	o:y]
/oo/	[o:				ok	o?	o?	ot	o:c	o:c	o:c	oc	oc	oc	oc	oc	oc	oc]	
/òò/	[ò:				ok	o?	o?	ot	o:c	o:c	o:c	oc	oc	oc	oc	oc	oc	oc]	
/c/	[				ok	o?	o?	ot	o:c	o:c	o:c	oc	oc	oc	oc	oc	oc	oc]
/è/	[				ok	o?	o?	ot	o:c	o:c	o:c	oc	oc	oc	oc	oc	oc	oc]
/é/	[e:				ok	o?	o?	ot	o:c	o:c	o:c	oc	oc	oc	oc	oc	oc	oc]	
/èè/	[è:				ok	o?	o?	ot	o:c	o:c	o:c	oc	oc	oc	oc	oc	oc	oc]	

Figure 5, continued.

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

/ia/	[i ^a _p	i ^a _t	i ^a _w	i ^a _l	i ^a _r
/i ^ä a/	[i ^ä _p	i ^ä _t	i ^ä _w	i ^ä _l	i ^ä _r
/ua/	[u ^a _t	u ^a _c	u ^a _k	u ^a _l	u ^a _r
/u ^ä a/	[u ^ä _t	u ^ä _c	u ^ä _k	u ^ä _l	u ^ä _r
/ia/	[i ^a _u	i ^a _ü	i ^a _ø	i ^a _ø	i ^a _y
/i ^ä a/	[i ^ä _u	i ^ä _ü	i ^ä _ø	i ^ä _ø	i ^ä _y

Figure 5, continued (diphthongs).

Huffman, F. 1990, "Burmese Mon, Thai Mon, and Nyah Kur:a synchronic comparison", in *The Mon-Khmer Studies Journal*, vol. 16-17, pp. 31-84. (purl.org/sealang/huffman1990burmese.pdf)

1.3.3. Syllable Structure

The syllable structure of Nyah Kur words is rendered extremely complex by extensive Thai loans, resulting in such word shapes as CCCVCVVC (/phyəyáam/ 'to try') and CVCCVCCVC (/sókkəprók/ 'dirty'). If we confine ourselves to native Nyah Kur words, they may be either

- 1) monosyllabic of shape C(C)(C)(C)(C) $\left\{ \begin{matrix} \acute{v}C \\ vv(C) \end{matrix} \right\}$ (as illustrated in 1.3.1.1.), implying that a final /C/ is obligatory after short vowels but optional after long vowels and diphthongs; or
- 2) disyllabic, consisting of an unstressed presyllable of shape /CV-/, where /V/ is always /ə/, plus a stressed syllable having one of the shapes represented in 1) above.

2. Synchronic Comparison

2.1. Burmese Mon and Thai Mon

Although obviously very closely related, it is debatable whether Burmese Mon and Thai Mon should be considered separate languages or dialects of the same language. In 1976 I found that for a 100-word list of very basic Mon-Khmer roots, Burmese Mon and Thai Mon showed a 99% cognation rate, while for an expanded 500-word list they showed 86% cognation (Huffman 1976a:568-9). For the present 900-word list, approximately 750 words, or 83%, appear to be cognate. This is perilously close to the 75% cognation rate sometimes arbitrarily given as the boundary between languages and dialects, and it is quite likely that over the total lexicon of the two languages, the cognation rate would fall below that criterion. Although only 30 words, or 3.3%, of the 900-word Thai Mon vocabulary are Thai loans (vs. none for Burmese Mon), the percentages of Thai and Burmese loans in the two languages respectively would increase significantly (I may in fact have overlooked some Burmese loans in Burmese Mon). In fact, my informants for the two languages were put to the test when they overlapped one day in my office--it required considerable effort for them to realize that they could communicate at all in Mon (the only language they had in common), and then only haltingly.

From the point of view of phonology, the differences between the two are not major. Both languages have identical inventories of consonant and vowel phonemes; Thai Mon, however, has three additional contrasts in the diphthongal nuclei (perhaps as a result of Thai loans), as follows:

Burmese Mon	Thai Mon
/ea/	/ia/
/èa/	/ìa/
	/èa/
/oa/	/ua/
	/oa/
/òa/	/ùa/
	/ða/
	/ìa/

/ìa/ occurs only in Thai loans.

Overall, Thai Mon shows a relative tendency toward monosyllabism and morphological simplification. In the following examples, Burmese Mon disyllables compare with Thai Mon monosyllables:

Burmese Mon	Thai Mon
/pathoŋ/	/thon/
/halòŋ/	/klèŋ/
/ma-halàŋ/	/klàŋ/

Furthermore, Burmese Mon presyllables of shape /Ca-/ tend to be reduced in Thai Mon to presyllables of shape /?a-/; e.g.:

/karao/	/?arao/	'six'
/takah/	/?akah/	'sky'
/hadoa/	/?adoa/	'in'
/kamah/	/?amah/	'clear'
/patch/	/?atch/	'mushroom'
/kasok/	/?asok/	'feather'
/pasqñ/	/?asqñ/	'five'
/kato/	/?ato/	'ear'

Finally, there is a tendency in Thai Mon to prefer paraphrastic rather than morphological expressions of such functions as causation, e.g.

Burmese Mon	Thai Mon
/ko/	/ko/
/pako/	/pa? ko/
/hun/	/hum/
/pahun/	/hum ka/

2.2. Mon and Nyah Kur

In comparing the above two dialects of Mon with Nyah Kur, we are obviously dealing with differences of a much greater magnitude. In 1976 I reported a 69% cognation rate between Mon and Nyah Kur for a 100-word list of basic Mon-Khmer vocabulary, but only a 31-33% cognation rate for an expanded 500-word list (Huffman 1976a:567). The present 900-word list shows only 22% cognation between Nyah Kur and Mon. Although this figure can no doubt be attributed partly to displacement of native words by Thai loans (almost 25% of the 900 words are Thai or Lao loans!), these figures clearly indicate that Nyah Kur has had a long period of separation from Mon, as well as isolation from other Mon-Khmer languages. My 1976 figures over the 500-word list show cognate percentages of 24% with Khmer, 13-20% with Katuic-Bahnaric languages, 11-13% with Khmuic or Northern Mon-Khmer, and only 6% with Viet-Muong. Nevertheless, Nyah Kur appears to be more closely related to Mon than to any other branch of Mon-Khmer.

Interestingly, the consonant phoneme inventories of Mon and Nyah Kur are almost identical, Nyah Kur lacking only the /f/ of Mon. A salient difference, however, is the occurrence of /-l/ and /-r/ in Nyah Kur, corresponding with open syllables in Mon, e.g.:

Burmese Mon	Thai Mon	Nyah Kur	
/ba/	/ba/	/baar/	'two'
/?a/	/?a/	/?ar/	'to go'
/tao/	/tao/	/tuur/	'to burn'
/kato/	/?ato/	/kətuar/	'ear'
/chu/	/chu/	/chuur/	'to whet'
/ti/	/ti/	/tił/	'thigh'
/lè/	/lè/	/lul/	'gourd'
/ko/	/ko/	/kal/	'break(intr.)'
/tae/	/tae/	/tuul/	'already'
/ka/	/ka/	/kul/	'to give'

Immediately noticeable also is the absence of an initial /s-/ in native Nyah Kur words; Mon /s-/ corresponds with Nyah Kur /ch-/, e.g.:

/sae/	/sae/	/chaay/	'bee'
/səŋ/	/səŋ/	/chooŋ/	'to drink'
/suk/	/sok/	/choɔk/	'hair'
/sot/	/sot/	/chac/	'fruit'
/sàŋ/	/sàŋ/	/khchèŋ/	'heavy'
/pasoa/	/pasoa/	/phchey/	'iron'

Some /s-/ initial words in Mon correspond with /chr-/ in Nyah Kur; e.g.:

Burmese Mon	Thai Mon	Nyah Kur	
/sàe/	/sàe/	/chràay/	'slender'
/sá?/	/sá?/	/chroo?/	'unhusked rice'
/sùŋ/	/sùm/	/chròon/	'snake'

Some Mon words with initial /h(a)-/ also correspond with /ch-/ in Nyah Kur; e.g.:

/hlèŋ/	/hlèŋ/	/chlooŋ/	'high'
/hanok/	/hnok/	/chnooŋk/	'to itch'
/halèa?/	/halèa?/	/chlàa?/	'thorn'

The following fairly regular initial correspondences occur:

/p-/ /pɔn/	/pɔn/	/pan/	'four'
/pəŋ/	/pəŋ/	/piŋ/	'full'
/pèŋ/	/pèŋ/	/pùŋ/	'stomach'
/t-/ /tɔh/	/tɔh/	/tɔh/	'breast'
/toa/	/toa/	/təy/	'hand'
/tae?/	/tae?/	/tii?/	'earth'
/c-/ /cao/	/cao/	/caw/	'grandchild'
/coŋ/	/coŋ/	/ciŋ/	'elephant'
/cea?/	/cia?/	/caa?/	'to eat'
/k-/ /kon/	/kon/	/kuan/	'offspring'
/kic/	/kic/	/kit/	'to bite'
/kè?/	/kè?/	/kōo?/	'able'
/?-/ /?a/	/?a/	/?ar/	'to go'
/?oh/	/?oh/	/?uas/	'firewood'
/?oc/		/?ic/	'feces'
/b-/ /ba/	/ba/	/baar/	'two'
/bao/	/bao/	/baw/	'sugarcane'
/boŋ/	/boŋ/	/biŋ/	'to swim'
/d-/ /dac/	/dac/	/daak/	'water'
/dap/	/dap/	/kədəp/	'head'
/hada?/	/hada?/	/sədak/	'to cough'
/h-/ /huŋ/	/hum/	/hum/	'to bathe'
/hae?/	/hae?/	/hii?/	'house'

Burmese Mon	Thai Mon	Nyah Kur	
/m-/ /mòt/	/mòt/	/màt/	'eye'
/muh/	/muh/	/mòh/	'nose'
/n-/ /nùm/	/nùm/	/noom/	'have, exist'
/nih/	/nih/	/mènih/	'human'
/ŋ-/ /ŋèak/	/ŋìak/	/ŋìak/	'tooth'
/ŋit/	/ŋìt/	/ŋùuc/	'to swallow'
/w-/ /wèt/	/wèt/	/thwìt/	'to forget'
/y-/ /yèak/	/yìak/	/yàk/	'smoke(n)'
/l-/ /lùp/	/lùp/	/lòɔp/	'to enter'
/r-/ /rùy/	/rùy/	/rùuy/	'fly(n)'

Although all three languages have initial /n-/ , no such set of correspondences is attested. Initial /ph- th- ch-/ sets occur; no initial /kh-/ set is attested; e.g.:

/ph-/ /phac/	/phac/	/phiic/	'to fear'
/phoa/	/phoa/	/phay/	'full'
/th-/ /thoa/	/thoa/	/thay/	'to plow(T?)'
/ch-/ /chəŋ/	/chəŋ/	/choonj/	'to kiss'
/chu?/	/chu?/	/chuu?/	'wood'
/chim/	/chim/	/chim/	'blood'

Among finals, while final dental sets occur, e.g.:

/chat/	/chat/	/kæcet/	'to die'
/kamot/	/kamot/	/kəmat/	'fire'
/pɔn/	/pɔn/	/pan/	'four'
/kon/	/kon/	/kuan/	'offspring'

some Mon dental finals correspond with Nyah Kur palatal finals, e.g.:

/hamot/	/hamot/	/hmuac/	'ant'
/dət/	/dat/	/tədaac/	'sweet'
/pɔn/	/pɔn/	/pan/	'to shoot'

Conversely, Mon palatal finals correspond sometimes with Nyah Kur dentals, e.g.:

/katac/	/?ataac/	/ntaak/	'tongue'
/hacic/	/hacic/	/nciit/	'nine'
/pasɔŋ/	/?asɔŋ/	/chuun/	'five'

sometimes with palatal finals, e.g.:

Burmese Mon	Thai Mon	Nyah Kur	
/phac/	/phac/	/phiic/	'to fear'
/kloc/	/kləc/	/khliic/	'pig'
/klɔŋ/	/klɔŋ/	/klin/	'oil'
/boŋ/	/bəŋ/	/biin/	'to swim'

and sometimes (in fact most commonly) with velar finals, e.g.:

/dac/	/dac/	/daak/	'water'
/caŋ/	/caŋ/	/chaan/	'chicken'
/cɔŋ/	/cɔŋ/	/chiin/	'to sew'
/paŋ/	/paŋ/	/paan/	'mouth'

Mon final /-h/ corresponds sometimes with Nyah Kur /-h/, as in

/tɔh/	/tɔh/	/tɔh/	'breast'
/hapɔh/	/hapɔh/	/mpɔh/	'seven'
/pèh/	/pèh/	/pèh/	'you'

and sometimes with Nyah Kur final /-s/ [iːx ~ iːh], which doesn't occur finally in Mon, e.g.:

/?oh/	/?oh/	/?uas/	'firewood'
/kùh/	/kùh/	/kùus/	'swell up'
/takah/	/?akah/	/ŋkaas/	'sky'

As for vowel systems, while all three languages are register languages, only Nyah Kur has contrastive vowel length, accounting for 42 vowel nuclei as opposed to 24 and 27 respectively for Burmese Mon and Thai Mon. Vowel correspondences between Mon and Nyah Kur are very irregular, and we will make no attempt to work them out in a synchronic study such as this. However, the correspondence between Mon diphthongs /oa ua ae/ and Nyah Kur words ending in /-v(v)y/ is immediately obvious; e.g.:

/toa/	/toa/	/təy/	'hand'
/coa/	/coa/	/cay/	'louse'
/?oa/	/?ua/	/wəy/	'I'
/pasoa/	/pasoa/	/phchəy/	'iron'
/møa/	/møa/	/muay/	'one'
/prøa/	/prøa/	/phrəy/	'rain'

Burmese Mon	Thai Mon	Kyah Kur	
/phoa/	/phoa/	/phay/	'full (sated)'
/hapoa/	/hapua/	/mpuuy/	'nest'
/plae/	/plae/	/phluuy/	'wax'
/nae/	/nae/	/khnuuy/	'monkey'

There is furthermore a significant set of words in which Mon /-ae?/ corresponds with Nyah Kur /-ii?/, e.g.:

/pae?/	/pae?/	/pii?/	'three'
/tae?/	/tae?/	/tii?/	'earth'
/hae?/	/hae?/	/hii?/	'house'
/nae?/	/nae?/	/khnii?/	'rat'
/kamde?/	/kamde?/	/təmii?/	'new'

Finally, from the standpoint of comparative syllable structure, Nyah Kur words tend to have much more complex initial sequences. The following Mon monosyllables correspond with Nyah Kur words having phonological prefixes of shape /Ch-/ or CV-/:

/dap/	/dap/	/kədəp/	'head'
/nih/	/nih/	/mənih/	'human'
/dat/	/dat/	/tədaac/	'sweet'
/tem/	/tem/	/sədim/	'to know'
/tam/	/tam/	/sətəm/	'thick'
/səh/	/səh/	/ləcuh/	'deep'
/chah/	/kyah/	/kəcah/	'charcoal'
/koh/	/koh/	/cəkas/	'dry'
/nae/	/nae/	/khnuuy/	'monkey'
/men/	/mən/	/khmuun/	'nephew/niece'
/nae?/	/nae?/	/khnii?/	'rat'
/wət/	/wət/	/thwət/	'to forget'
/mən/	/mən/	/khmən/	'to hear'
/səŋ/	/səŋ/	/khchəŋ/	'heavy'

The following Mon words having initial clusters /Cr- Cl-/ correspond with Nyah Kur words having /Chr- Chl-/ initial clusters; this is in some cases an artifact of the decision to analyze Nyah Kur C'C- clusters in 2nd register words as /ChC-/, but the pattern otherwise exists in 1st register words.

/pràt/	/pràt/	/phràat/	'banana'
/krəp/	/krəp/	/khrəp/	'forest'
/plae/	/plae/	/phluuy/	'wax'
/klè?/	/klè?/	/khleε?/	'short'
/kləŋ/	/kləŋ/	/khliiŋ/	'long'
/prèa/	/prèa/	/phràw/	'wife'

Burmese Mon	Thai Mon	Nyah Kur	
/klean/	/klian/	/khlian/	'carry (on a shoulder pole)'
/kr̥ean/	/kr̥ean/	/thr̥an/	'horn (animal)'
/kr̥an/	/kr̥an/	/chkhruŋ/	'to laugh'
	/kr̥əh/	/khrih/	'liver'

A smaller number of sets is nevertheless attested in which words in all three languages have initial /CC-/ clusters; e.g.:

/prean/	/priŋ/	/priŋ/	'buffalo'
/kləŋ/	/klŋ/	/kliŋ/	'oil'
/krək/	/krək/	/trook/	'mango'

3. English--Burmese Mon--Thai Mon--Nyah Kur Glossary

The following glossary represents all the lexical data collected in 1970 for the three languages, or every gloss for which a lexical item was elicited in at least two of the languages. Forms are in phonemic transcription; their phonetic realizations can be reconstructed by reference to the respective phonological descriptions in Part I of this paper. (T) following a form means that it is assumed to be a loan from either a Thai or a Lao source; slant lines (/) indicating phonological transcription are omitted in the interest of saving space. English, Burmese Mon, Thai Mon, and Nyah Kur at the head of each column are abbreviated Eng., BM, TM, and NK respectively.

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
abandon	klo-tha?	tha?	bɔh
able	kè?/man	kè?/kwè?	kòo?
accept	tèŋ-toa	tèŋ-ket	rap(T)
accompany	peak-?a-hako?	pha(T)	paa(T)
accustomed	kean	kean	kèay(T)
admire (respect)	than-sah	yàk-tàk	-
after	rèa-sah	rèh-seh	phiic (fear)
afternoon (late)	tæe-ma?	tò-rao	ŋkraaw
	taŋoa	?akhəŋ-bae	baay(T)
	səŋoa	-	-
agree	kase	kase	tok-loŋ(T)
air	ca	?akah(T)	khyaal
alcohol	?arèak	?arèak	preε?
alive (people)	nùm-manam	nùm-lèm-	nɔɔm-ciwit-?əl
(plants)	càŋ	yèm-mòn	-
all gone (used)	?at/còt	?at	tàn-?ət
allow	ha?at	sam-pa?at	?ət
already	tɔp-cat	tɔp-cat	yɔɔm(T)
always	tae-ya?	tae-ra?	tūul
and	kaw	rìay(T)	təphit
angry	ka	ka	-
ant	cat-thèa	mèa?-nèw	kroot(T)
anus	hamot	hamot	hmuac
appropriate	saŋ?-oc	?aket	chrung-?ic
argue	tèah-rèah	tèah-rèah	sɔm(T)
arm	kayan	?ayan	cuu/thiaŋ(T)
arrange	toa	toa	khœen(T)
arrive	prao?-preaŋ	pru?-priŋ	kriam
arrow	tu-cap	cap/cɔŋ/tè?	lac/con(T)
ashes	lè	na?	kam haa?
ask for	patqñ	patqñ	pətiŋ
astrologer	hman-hmək/?at	hman-hmək/?at	tòon
at	?aca-ha?uy	piŋ-tèw	mɔɔ-mày(T)
aunt (Pa01Si)	hadoa	?adoa/thì(T)	tìi(T)
(PaYrSi)	?amù	?amù-tè?	cəwaay
awaken	?		
ax	parə?-ce?/lèm	parə?-ce?	maam
back (person)	tun	tùŋ	kətəər-tun
	pràt	pràt	chuaj(T)
bad	mèa?	mèa?	kəchin
bamboo	harèah	harèah	ŋraas
banana (clf. one)			
(clf. hand)			

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
bark(n)	hanok	hanok	ŋkuar
bark(v)	kì	kì	pəw
basket (round)	chen	?achu?	krəcaa?
(square)	nèa?	nèak	thanj
bat	rèa	rèa	khlin(back-basket)
bathe(iv) (tv)	kawa?	kawa?	thrin
bean	huŋ-dac	hum-dac	hum
beard	pahuŋ	hum-ka	-
because	koh	tòh	tèh
bed	pe	sot-cèk	chrīm
bee	suk-hamep	sok-hamaŋ	chock-meh
before	màn-kòh	hat-ham	phro?-tii
believe	cõŋ	coŋ-tæc	tiaŋ-puŋ
bend	sae	sae	cùr-chaay
bend over	kla	kla	cəmch
betel (leaf)	pateh	pateh	cia(T)
bird	hacan	wéah	khoon(T)
bite(v)	haplù?	hacan	khoon(T)
bitter	hacem	haplù?	?aphluu
black	kic	hacem	jciām
blade	katanj	kic	kít
blanket	kacak	katanj	kətanj
blind	bak-tu	pacok	phliat
blink	yàt	habok	mmok
blood	mòt-klak	yàt-keak	nèec-tak
blow	haret-mòt	mòt-klak	təbɔöt(T)
boar	chim	harip-mòt	khphrip(T)
boat	hakəh	chim	chim
boil(v)	kloc-krèp	hakəh	pəkuh
bone	klèŋ	klèŋ	khliic-khrèp
book	tom(T?)	bah	rìa(T)
born	cùt	cùc	luuk
borrow	lòc	lèc	chlùut
bottle	baŋ	kata-tòh	nīŋsii(T)
bow(n)	halè?	halè?	kæt(T)
bowl (small)	palanj	?alanj	yíim(T)
box	panoh	na?	khuat(T)
(lacquer)	paŋan	paŋan	-
branch	khok	khok	khal
break(iv)	kala	hip(T)	thuuuy(T)
(string)	hado?	hado?	hiip(T)
(stick)	nqŋ-chu?	nqŋ-chu?	kap
	hakah	hakah	khàap
	hapat	-	paak
	ko	ko	put
			kal

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
(tv)	-	pa? hakah	paa? paak
(tv)	pako	pa? ko	-
breast	tōh	tōh	tōh
breathe(in)	yèm-plup	yèm-lùp	jùm
(out)	yèm-patet	yèm-tac	-
bridge	hatòn	hàton	təpaan(T)
bright	kamah	?amah	cεεŋ(T)
broadcast	kràt	kràt	kəchaac
(sow)			
broom	kamoh	to-mamoh	chuu?-kraas
brother	kao	kao	pccŋ-tus-truus
(older)			
(younger)	tè?-kraoh/ tè?-plàe	tè?-plàe	ncii?-tus-truus
br.-in-law	kao-yèa	kao-yìa	yaw
(older)			
(younger)	boa-pae	boa-pàe	khmàan
buffalo	preaŋ	priŋ	priŋ
burn	tao	tao	tuur/kih
bury	tap	tap	chruiŋ
buttock	taket	tɔm-ti?	thpook(T)
button	kamon	mèa?-paŋon	khian
buy	ràn	ràn	raaj
cabbage	hane-ke	hane-ke	-
call	kok	kok	hook(T)
candle	naj	naj	tian(T)
carry	yàk	yàk	ŋkìn
(on back)			
(on pole)	klèaŋ	kliaŋ	khliŋ
(general)	palaj	palaj	khon-son(T)
cart	kwi	kwi	kian(T)
cat	hakoa	hakoa	miaw(T)
catch	ròp	ròp	cap(T)
charcoal	chah	hyah	kəcah
chase	hadeaŋ	hadianŋ/kuat	lày(T)
cheap	tòn	tòn/téak	thuuk(T)
cheek	nɔŋ	nəŋ	təbal
chest	kala	tù(T)	tuu(T)
(wood)			
(body)	sah	sah	crih
chew	hae	hae	khnàay
chicken	caŋ	caŋ	chaŋ
chief	khaj	hanok-hae?	phuu-yay(T)
child	kon	kon-ŋac	kuan-kuan
(youth)			
(offspr)	kon	kon	kuan
chisel(v)	pac	pac	cəkhleɛ?

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
chop	bak	pac	sap(T)
cicada	hatot	-	-
cigarette (clf.)	buk kanaŋ	buk hamao	brii(T) mùan(T)
citrus	panao	panao	pəcah
city	dəŋ	dəŋ	-
clean(adj) (tv)	?ah krat(wash)	?ah krat/ka?ah	sə?aat(T) -
clear(air) (water)	kamah ke	?amah ke	cat(T?) -
cleared away	klah	-	-
climb	kwà̄n	kwà̄n/tan	tun
close(v)	mat	?atè?	traj
close together	krop-?a	krop	biat
cloth	yà̄t	yà̄t	nèec
clothing	klè-yà̄t-palo?	yà̄t-?ala?	nèec-saw
cloud	mòt-pròa	mòt-pròa	mòok(T)
coconut	saprèa	sop-prèa	chac-duuŋ
coffee	ko?-phoa	kaofee	kaafee(T)
cold(adj)	bah	bah	təkat
color	?araŋ	si(T)	sii(T)
come	kləŋ	kləŋ	lòon
consider	chöp	hyöp/khìc(T)	kit(T)
cook(v)	tom	dun	tɔɔm/luuk
copper	hlae	hlae	thɔŋ-phleen
corn	sakòn	hla?-kòn	hlii(T)
corner	kanəŋ	kanəŋ/hakao	mùm(T)
corpse	-	fèa?	-
corral	haran	haran	kòɔk(T)
cotton (wool)	tò-cha	?acao	tual
(thread)	cèk-tò	cèk-?acao/to	-
cough(v)	hada?	hada?	sədak
count	rèh	rèh	nàp(T)
country	dəŋ	dəŋ	mìaŋ(T)
cover(v)	kèp-tha?	kèp/?at	chkhrɔop
crocodile	cam	kyam	khyaam
cross(v)	kla?-?a	kla?	təphaan
crossbow	ŋa?/panoh-lèa?	ŋa?/san(T)	thnuu(T)
crow(n)	hadac	hadac	kal-?aak
cry(v)	karè?	?arè?	yàam
cup/glass	khok	khok	kεew(T)
cured/well	khah	khah	chip
curse(V)	chao/ràn-càŋ	sɔŋ/hyam	cèŋ(T)
curved	ŋak	ŋak/wàŋ	ŋòo(T)
custom	?akhak	?akhak/?alàk	-
cut(slice)	rac	ràc	kac

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
(hack)	bak	pàc	sap(T)
(scissors)	khep	khep	-
dance(v)	lèh	lèh-hayìh	ràm(T)
dark	klù?	klù?	kètìn
daughter	kon-prèa	kon-prèa	kuan-phràw-phràw
daughter-in-law	ha?oh	ha?oh	kuan-?uay
dawn(v)	tan	tan	tèhay-tun
day	ŋoa	ŋua	hay
deaf	daŋ	daŋ	kètuar-khləŋ
deep	sèh	sèh	lècùh
deer	kræe	kræe	tèbuŋ
defeated	ca?	ca?	kyaa?
depress	də-pyih	də	kot-cihi
descend	cih	cih	cih
destroy	palèm	palam	-
devil	kalok	kalok	ntòk
die	chat	chat	kècet
different	?uŋ-tɔp-pu	hu?-tɔp- niyah-ko?	lùuc-cèkoo?
difficult	wàt	wàt	mmaak
dig(chop)	bak	bak	ciir
(spade)	khae	khae	-
dirty	pɔp-pi/ŋɛt-pet	pɔp-pi	sokkəprok(T)
disease	yòa	yòa	ròok(T)
disgusting	duh	duh	càŋ
distant	hoa	hua	chjày
diviner	?aca-ha?uy	piŋ-tèw	-
divorce(v)	prah/tət	prah	bōh
do, make	klon	klon	paa?
dog	kla	kla	chur
done	khah-khah	cjin	lə?uh
(cooked)			
don't	pa?	pa?	yaa(T)
door	karaŋ	?aran	mbran
dove	hacéak	hacéak	puur
drag	-	pao	lääk(T)
drink(v)	səŋ	səŋ	choon
drum	hapèn	hapèn	-
dry	koh	koh	cèkas
(season)	kanaŋ	koh	kètaw(hot)
dry up	dah	dah	rə?ac
duck	?atea	?atea	tää
dull(edge)	-	khèk	tìil
(point)	bam	bam	-
dust	palàk	hapàk	lə?coŋ(T)
dwarf	nìh sc-sc	sc	chèr
ear	kato	?ato	kètuar

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
earth	tae?	tae?	tii?
east	haləŋ-ca	hamok-kyā	-
easy	lòa	lùa	naay(T)
eat	cea?	cia?	caa?
egg	hamac	hamae	pɔɔŋ
eight	hacam	hacam	jncaam
elephant	coŋ	cəŋ	ciŋ
eleven	cōh-mòa	cōh-mùa	cas-mùay
empty	-	mah-mah	-
end(point)	kanəŋ	kanəŋ	priŋ
enough	rùm-ra?	rùm-ra?	pòɔ(T)
enter	lùp	lùp	lòɔp
evening	sangoa	sangua	mluu?
every	?arè?-?arè?	rèh	duk(T)
exact	mòa-pèm	tèah-ra?	keweh-dəh
exit	tət-?a	tac	tít
expensive	daŋ	daŋ	pèŋ(T)
extinguish	haplat	palat	kəphlet
eye	mòt	mòt	màt
eyebrow	hnean-mòt	hərèm-mòt	khìiw(T)
face	mèk	mèk	nàa(T)
fall(v)	hatɔm-ciḥ	hatɔm-ciḥ	chriḥ
fall over	-	tɔm	-
fast	pröh-manj	pröh	wày(T)
(quickly)	pröh-pröh	pröh	-
fat(adj)	kra?	kra?	?uan(T)
father	?apa/mea?	?apa/mea?	pàa?
father-in-law	kham-sae	kam-sae	pàa?-nciir
fear(v)	phac	phac	phiic
feather	kasok	?asok	chök-chöök
feces	?oc	-	?ic
female sex	chi?	-	kəpəən
organs			
fence	tòp	tòp/haban	kòɔk(T)
fever	fɔh	tòh-fòh	càs
few/little	?on	ji?	neet
finger	kanəŋ-toa	?apoh-toa	mpuus
finished	tae-?a-ya?	tae-ra?	tūul
(complete)	patae/?at	?at	cɔp(T)
fire	kamot	kamot	kəmat
firewood	?oh	?oh	?uas
fish(n)	ka?	ka?	kaa?
fish(v)	dɔn-ka?	dɔn-ka?	bɔh nɔn(cast net)
fishtrap	kanəm	parɔc	sum
five	pasɔŋ	?asɔŋ	chuun
flat	hapeh	riap	ràap(T)
flesh	phyun	chuŋ	hwaa?

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
flint	mo?-harak kamot	hyah-kamot	khmay-say-mat
float(iv) (tv)	hi pahi-tha?	loa ka-loa	lòoy(T) -
flour	còŋ	pèaŋ	champròt
flow	fò	fò	hiiw
flower	kao	kao	kaaw
fly(v)	pò	po	phar
fly(n)	rùy	rùy	rùuy
fog	katap	-	phyap
follow	peak-?a	peak-?a	pàk
food	kana?-cea?	?ana?-pəŋ	khriāŋ-caa?
foot	càŋ	càŋ	cùŋ
forehead	nean	nian	-
forest	krèp-chu?	krèp	khrèp/phnɔɔm
forget	wèt-?a	wèt	thwìt
four	pɔn	pɔn	pan
free of	plèah	plèah	liik(T)
from	nèan	nèan/nù	caak(T)
frozen, congealed	kala?	dac-?aŋəh	kriin
fruit	sot-chu?	sot-chu?	chac-chuu?
full(sated)	phoa	phoa	phay
full(cup)	pøŋ	pøŋ	piŋ
further	nem	pløn	?iik(T)
game	poa-waŋ	kan-wàn	-
gentle	yèn-sanaj	khah-?aku?	suphaap(T)
get	kè?/man	kè?/kwè?	kòo?
ghost	kalok	kalok	-
gibbon	wùt-?ə	wùc-?ə	-
gift	løk-chanj	kròp-ka	khoɔŋ-kul
give	ka	ka	kul
give birth (animals)	baŋ-kamot chanj	baŋ-kon -	kæet kuan
go	?a	?a	?ar
goat	habε?	habε?	pε?
god	cac	kyac	lùuŋ-phrà?
gold	thò	thò	tòɔŋ(T)
good	khah	khah	hnap
good at	le-mòn	kòn	du?
goose	?ahan	han	haan
gourd	lè	lè	lul
granary	rèŋ-sa?	haŋ-sa?	yùŋ-chroo?
grandchild	kon-cao	cao	caw
grand-daughter	cao-prèa	cao-prèa	caw-phrè?-phràw
grandfather	panak	?anok/?itoh	pœŋ
grandmother	mi?nak	?anok/?itoh	yɔɔŋ

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
grandson	cao-kraoh	cao-kraoh	caw-tus-truus
grass	choa	chua	mpàt
grave	hanae-tap-nih	katan-tap-fèa?	mruñ
great-gd-daughter	kon-cae?	cac-prèa	caw-cah
great-gd-father	paneak	?anèak	peen-tuat
great-gd-mother	paneak	?inèak	yooŋ-tuat
great-grandson	kon-cae?	cac-kraoh	caw-cah
gt-gt-gd-daughter	kon-ceak	ciak	caw-cah-ràh
gt-gt-gd-father	panak	?anàk	-
gt-gt-gd-mother	panak	?inàk	-
gt-gt-gd-son	kon-ceak	ciak	caw-cah-ràh
green	sac-ŋeak	khiaw(T)	sii-ŋcoh
guard(v)	mèan	mèan	khwaal
gun	sanat	sanat	kemät
hair	suk	sok	choɔk
half	kawak	?awak	kəŋ(T)
hall	rèŋ	ron(T?)	ròon(T)
hand	toa	toa	tèy
handle(n)	to	to	tar
hang	takòa	kwak	khyual
happy	mip ~ mìp	mòn-mìp	-
hard	paŋeh	?aŋèh	kriŋ
hare	hatae	hatae	tənsaay
harvest(v)	ròt-sa?	ròt-sa?	hràc
hat	hamok	hamok	mùak(T)
hate(v)	duh	duh	càn(T)
have, exist	nùm-mòn	nùm	nɔɔm
he	dəh/ŋéah	dəh/ŋiah	jìn
head	dap	dap	kədəp
hear	moŋ	məŋ	khmìŋ
heart, mind	cat	cat	nùm
hearth	phao	phao	ŋhur kemat
heat(v)	hatao	katao	-
heavy	sàŋ	sàŋ	khchèŋ
help	phàn	chùa	cùay(T)
here	?anc?	thì-no?	bɔɔn ?ɔɔ?
high	hlèŋ	hlèŋ	chlooŋ
hit(fist)	tak-cuk	tak	khnam
(rap)	hadak	-	tùp

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
hold	ròp	ròp	təŋ
hole (cavity)	pathoŋ	phrəŋ	chrūŋ
(perfor- ation)	pathoŋ	thoŋ	chrūŋ
honey	dac-sae	dac-sae	daak-saay
hook(v)	hmac	hamac	chwàk
horn(animal)	krèaŋ	krèaŋ	thràŋ
horse	chəh	hyəh	chəh
hot (spicy)	katao	katao	kətaw
hour	ròn	ròn	ŋəm(water)
house (clf.)	nadi	mòn(T)	chmoon(T)
how	hae?	hae?	hi?
how, why	mèa?	cəŋ	laŋ(T)
how many	pèŋ-la-ra	halə	yan-haan
how much	mo?-la	pa?-halə	pənaan
human	maci?	maci?	ci?
hunch-backed	mòa-ci?-la	mòa-ci?	tàw-mò?
hundred	nih	nih	mənīh
hungry	non-kun	kun	kəchin-ko?
hunt	kləm	kləm	cook
husband	pyè	kyè	heew(T)
hut	klàe/pɔn	klàe/pɔn	lòom
I	hayaŋ-kraoh	kraoh	màaŋ
if	hae?-tae	hae?-cao-thì	hnam
in	?oa	?ua	wèy
in order to	yò-ra?	yò	tàa(T)
in process of	padoa/hadoa	?adoa	nèe
inhale	?akhwak-ke?	paməc	phiə(T)
insert	-	khèw	kəmlaŋ(T)
insult	yèm	yèm	jùm
intend to	cho?-cuk	cuc	cuh-cuh
iron	ràn-càn	hyam	cèεŋ(T)
island	ŋèa	khic-ca?(T)	kit-na?(T)
it	pasoa	pasoa	phchey
itch(n)	ko?	ko?	ko?(T?)
ivory	ko?	ko?	-
jackfruit	dəh	dəh	-
just now	hanok	hnok	chnoɔk
kapok	krèaŋ-coŋ	krèaŋ-cəŋ	phlùk
keep	panɔh	panɔh	-
Khmer	nù-klaj-no?	nù-klaj-no?	-
kill	hana-kroc	hlon	mur
king	ca?	ca?-lò	pas-?əl
kiss	khamu?	hamen	khmeer
	hacat	hacat	kəcət
	?ekarat	?ekarat	luan(T)
	chəŋ	chəŋ	choon

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
knee	tù	baŋ	kəbɔŋ
knife	bun	bun	buun
(small)			
(large)	parèa?	parèa?	-
knock down	patóm-phyih	pa? tóm	thuas
knot	teak-pakhak- la-cèk	pom	còok tàk
know	təm	təm	chriŋ
(famil.with)	təm	təm	sədīm
lack	pat	pat	khaat(T)
lake	kama	kama	sa?(T)
language	?arè	?arè/phèasa(T)	phsaa(T)
Lao	lao	lèa	-
large	hnok	hnok	atoo
laugh	kràŋ	kràŋ	chkhrùŋ
lazy	kanup	panuh	ncìil
lead(v)	habah/kanon	pha-na(T?)	pàa(T)
leaf	kanah	kanah	hlaa?
leech	klɔn	?anao?-ŋèa?	-
(land)			
(water)	pakot	?akot	chlèəŋ
left(side)	pae	pae	chwii?
leg	càn	càn	yɔk
length	halɔn	klèŋ/klin	-
level	kato	?ato	-
lie down	halae	tæc	puuj
life	ròp-còp	lèm-yèm	-
lift	habap-patən	pak	chlèk/yùk(T)
light(v)	cɔŋ	cɔŋ	-
light(wt)	sa	sa	khyaal
light(n)	kamah	kamot-kamah	-
lightning	chep-pale	che-pale	màt-chlèw
listen	kalaŋ	kalaŋ	təmòo?
liver	-	krèh	khrih
located	nùm-mòŋ	mòŋ	tòŋ
long(time)	ma-kalò?	lò?	lò?
(space)	klɔŋ	klèŋ/klin	khliiŋ
look at	ròn	ròn	mòŋ(T)
lose, disappear	kle?	kle?	chip
louse	coa	coa	cay
love(v)	dəh-cat	təh-cat/chan	trih
male	ma?/pò?	ma?	hmak
(animal)			
(human)	kraoh	kraoh	truus
mango	krèk	krèk	trook
market	phyā	hya	telaat(T)
mat	hakò	hako	ŋhaar

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
medicine	ha?uy	kèa?-?uy	ŋuuuy
meet	chè	chè/hapea?	-
middle	?atò	?atò	pəcit
midnight	hatōm-klù?	?atò-hatōm	pətam
milk	dac-tōh	dac-tōh	daak-tōh
miserly	ha?et/sa?et	ha?et/hapi?	tam?iat
mold(v)	klon-pèm	pàn-rùp(T)	-
money	sɔn	sɔn	-
monkey	nae	nae	khnuuy
moon	hatao	hatao	ntuu?
more than	nèaŋ	nù	kwa(T)
morning	yèah	nù-kayiah	naŋ-rəh
mosquito	hamic	hamic	muus
mosquito net	kanao	mèŋ(T)	-
mother	yae/mi?	mè/mi?	mèε?
mother-in-law	kham-sae	kam-sae	?uŋ-ŋciir
mountain	tè	tè	kur
mouth	paj	paj	paŋ
move(fidget)	haput	-	-
move over	pachuy	hayae	tiŋ
much	ma-halàŋ	ma-halàŋ/klàŋ	khlàŋ
mushroom	patch	?atch	pətih
must	təh	téah	tɔŋ(T)
name	camò?	cèamù?	cìi(T)
narrow	dɔn	khèp(T)	kèep(T)
near	krop	krop	jnen
neck	kɔ?	kɔ?	kɔɔ?
needle	kanoj	?anəŋ	jcul
nephew/niece	mèn	maj	khmuun
nephew	mèn-kraoh	maj-nih-kraoh	khmuun-tus-truus
nest	hapoa	hapua	mpuuy
new	kamde?	kamde?	təmii?
niece	mèn-prèa	maj-nih-prèa	khmuun-phrè?-phraw
night	hatōm	hatōm	pətam
nine	hacic	hacic	ŋciit
no	ha?eh	mah-mah(empty)	hin?
noon	taŋoa	?atò-nua	pəcit-təhay
north	hamok	saləŋ-kya	-
nose	muh	muh	moh
not	?uŋ	hu?	ku?
now	hamuh	hamuh-nɔ?	?ee-nɔ?
occurrence	wèa	wèa	tɔŋ
ocean	bi-maha-mep	bi-ban-hamac	-
odor	hamao	hamao	klin(T)
oil	klɔŋ	klɔŋ	kəlin
old(thing)	karem	karem	dəem(T)

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
(person)	pyù?	kyù?	phcuu?
old lady	maki?-pyù?	maki?-kyù?	-
older sibling	kao/boa	?akò?	pooŋ
on	?atao	?atao	bon(T)
on top of	?atao	?anot	ntuul
one	mòa	mùa	mùay
oneself	hma?-?oa	?ən	?een(T)
only	nean-kwəh	cha?-kòh	tàw-?cc?
open	pak	pak	pok
opposed	?uŋ-tèah	thèan-kanèan	kiit-kan
other	panoh	panoh	chtèer
outside	parjéah	marjéah	nòčk(T)
owl	hacem-tì?-tò?	hacem-kalok	kew
ox	klèa	klèa	jchoon
packet	cak	kwì	khìiw
page	kanah	-	nàa-nsii(T)
paint(v)	lòk	lòk	tàa(T)
pair	macum	khù(T)	kùu(T)
papaya	ko?-ci	kuci	pəkɔɔ
parrot	makhe	nok-kèaw	phchaan
pay(bill)	lèa-sɔn	lèa	cày(T)
(debt)	kalah-tha?	som-ma?-na-kùn	-
peace	bah-sah	hu?-mua-nan	-
peacock	parac	?arac-thɔ	kaw-nook
peck(v)	bak	bak	cəbək
pen(write)	hneh	neh	pəkaa(T)
pencil	khe-dan	taŋ-hakoh	jchɔɔ(T)
penis	-	-	pədəy
pepper(chili)	parac	?arac	pəkeew
(black)	parac-hamah	?arac-hamaeh	phrik-thay(T)
person	nìh	nìh/nìah	mèníh
(clf.)	ra	nìah	jnah
pick, dig out	khae-patet	hadae	cəkhleɛ?
piece	kala?	kariak	mual
pig	kloc	kləc	khliic
pigeon	harap	harap	philaap(T)
pillar	taŋ-hae?	kayan	ŋcùŋ
pineapple	?ahnat	hanat	champròt(T)
pipe(tobacco)	bak-tò	dəŋ-bak	kloɔŋ(T)
place	hanae	hanae	boon(T)
plain(n)	wèa	wèa	tìi-ràap(T)
plane(v)	hapak-halic	kak	say(T)
plant(v)	ta	ta	təl
play(v)	wan	wàn	wìŋ
plow(v)	thoa	thoa	thay(T?)

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
(n)	lè?-thoa	thoa	khoɔŋ-thay(T)
pod, ear	hakom	hakɔŋ	?uuk
poison	cì?	cì?	pít(T)
poor	wàt-tàk	tàk	cɔn(T)
porcupine	kama?-haleak	keak-keak	lam-niaŋ
port, dock	hneh-baŋ	hneh-baŋ-tè?	tàa(T)
potato	man?-alu	wùn-halea	faay-chuu?
powdered, fine	dat	dat/hlac	lə?iat(T)
prepare	prao?-preaŋ	pru?-prian-lò	triam(T)
pretty, good	khch	khch	hnap
prevaricate	lèm-cea?	lèm-cea?/pali	mplap
pull(lead)	hacèak	hacèak	din(T)
(drag)	-	pao	làak(T)
pure	cèt-cèt	cèt-cèt/ kwεh-kwεh	bɔrisut(T)
push	harəh	harəh	phlak(T)
put away	ca?	ca?	pas
put in	cuk	cuc	?ɔɔk
put on (pants)	pàk	pàk	-
(shirt)	katak	katak/cuc	?ɔɔk
question particle	ha	ha	kəlaw
raft	phan	phan	rìa-pɛe(T)
rain(n,v)	prøa	prøa	phrøy
rainbow	kamèan-səŋ-dac	mèan-da	mɔɔŋ-kəyaak
raise(pigs)	kawì-la	liaŋ(T)	cim
rake(v) (n)	haboa	krèah	khraat
rat	?ahè	hareah	khraat
red	nae?	nae?	khni?
redeem	haket/dae	taket	phleen
remember	nèk	ràn-?amæ?	-
repair	kè?-hatæ?	hatəm-kè?	cam(T?)
resin	pale	kè	teen
return	hnam	yan(T)	càr
revolve	kaleaŋ	kalian	cəw
rib	hadic	?akèt	mun-roop(T)
rice	cùt	cuc-khrøŋ	chlùut-ŋkøy
(cooked)	pəŋ	pəŋ	poon
(husked)	hao?	hao?	ŋkɔɔ
(unhusked)	sa?	sa?	chroo?
(glutinous)	palqŋ	palqŋ	poon-hæep
ricefarm(v)	klon-ŋèa?	klon-ŋèa?	paa?-chree
ricefield (wet)	ŋèa?/wèa	ŋèa?	chree
(dry)	-	klo?	khmaa?

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
ride(v)	dak	dak	ŋcih
right(side)	pəŋ	pəŋ	sətoom
ring(n)	kɔ?-cɪn	?aciŋ	chac-phnian
ripe	duh	duh	lə?uus
rise	kata-tan	kata	təər
river	krəŋ	-	-
(small)			
(large)	bi	bi	mənam(T)
road	klaŋ	klɔŋ	trəw
roast(v)	parəŋ	karaŋ	praŋ/sətūur
roof(v)	kamae	kamae	kəmür
room	hanae-mɔŋ	hɔŋ	hɔŋ(T)
root	rəh	rəh	rīh
rotten	?ut/?ɔh	?oc/pasa?	ch?uut
(stale)			
(putrid)	?uy/lèm-?a	?uy	ch?uy
round	hadəm	hadəm	kləm(T)
row(v)	tùn	tùn	pàay(T)
rub	klot	taoh/cət	chmət
run	krip	krip	kəthriap
run into	cəŋ	cə-ŋiaħ-kɔ?	cèl
salt	dəŋ	dəŋ	pə?ur
salted	hakəh	dəŋ	khəm(T)
salty	dəŋ	dəŋ	khəm(T)
salute(v)	ka-salam	?anju	rəŋuar
same	təp	təp-ŋiaħ-kɔ?	kìi-cəkɔ?
sand	hatae	hatae	ntił
sapodilla	sɔt-lamut	?amuc	ləmut(T?)
sarong	klòc	klèc	trooŋ
saw(wood)	hatac	hatac	liay(T)
say	ham	ham	tii
scold	kahèk	?ahèk	cèŋ(T)
scratch	khwət	hmàt	cōk-cōok
(itch)			
(animal)	chac	chac	cōk-cōok
season	?akhon	?akhən/mèk	rìduu(T)
section	?areāŋ/kachun	?areāŋ	suan(T)
see(watch)	pè	pè	khmay
(look at)	rɔŋ	rɔŋ	-
(meet)	chè	chè	-
seed	mèa?	mèa?	khràp
sell	sa?	sa?	khyoo?
send	paləŋ	paləŋ	ntɔŋ
servant	kon-ròa	nìh-cia?-ka	mənih-?uar
set(eggs)	katop	?atop	mpuk-chaan
set up	patoh	tàŋ(T)	tan(T)
seven	hapoh	hapoh	mpoh

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
sew	còj	cèj	chiij
shade	hanoj	hanəj	ròm(T)
shallow	da	dam	kedaal
sharp	keak	kiak	lòop
sheep	sə	kaləj	kəh
shirt	pala?-hyat	pala?	phok-təy
shoot(v)	pɔn-cuk	pɔn	pan
short	klè?	klè?	khliɛ?
should	təh-pa?	təh	khuan(T)
shoulder	tèan-j-kanah	tèan-nah	phnah
shout(v)	hakot-cuk	?anaj	hook(T)
show(v)	habah	waj-ka-pè	?uat(T)
shrimp-paste	harok	harok	muy
sibling (older)	kao/boa	kao/?ako?	pccij
(younger)	tè?	tè?	ncii?
sick	mòn	mèj	cèy
sickle	nòt	nòt	kewian
side	hapaj	kapac	khan(T)
silent	het-sèa?	hac	ŋiap(T)
silk	sac	sɔc	phrɛ/may(T)
silver	sɔn	sɔn	prak
similar	haməj	tɔp	kìi(T)
sing	hayèh-mòn	kayih	-
sink	plak-ciḥ	?anem-ciḥ	cɔm(T)
sip	cep	cep	cip
sister (older)	boa-hnok	boa-wùc	lùu?-phrè?-phràw
(younger)	tè?-prèa/ tè?-wüt	tè?-wùc	ncii?-phrè?- phràw
sit	hacò?	kacò?	tòj
six	karao	?arao	traw
skillet	hamae-tè	?athèa?	kətə?(T?)
skin	hnam	hnam	hnaam
sky	takah	?akah	ŋkaas
slap	hapèah	hapèah	tɔp
slave	doc	dəc	kədah
sleep	toc-mòn	təc-hləj	puun-ŋkuy
slender	sæe	sæe	chràay
slow, late	sèŋ	chèa	càa(T)
small	dot	dot/duat	niic
smell	chəŋ/yèm	chəŋ/yèm	nat/dɔm(T)
smoke(v) (n)	habet/səŋ	habet/dəŋ	duut(T)
snail	yèak	yìak	yak
snake	khayù?	-	-
sneak	sùŋ	sùm	chròom
	klèm-?a	kwac-hac-hac	?ar-ntàm

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
some	nì?-nì?	kam/ban-nìh	cèən
somewhat	nì?-nì?	kam/nì?	kəna?-kənìit
son	kon-kraoh	kon-kraoh	kuan-tus-truus
son-in-law	haman	haman	khmàan
song	kweak	kweak	phlēen(T)
soon	?uŋ-lò?-ti?	hu?-chèa	?ii-ku?-lò?
sound	pasaj	?asaj	càs/pəchaaj
sour	phyah	hyah	pəcah
south	palat	hamo-kya	-
sow(v)	kràt	kràt	kəchaac
speak	ham	ham	pūut(T)
spear	nùh	nùh	hɔok(T)
spider	cì-phaj	pì-phaj	nùuŋ-nàaŋ
spirit	kalok	kalok	ntòok
spit(v)	chöh	chöh	kəcəh
split	pac-tho?	pac-tho?	pah/təpaak
spring(water)	dac-takò	dac-làk	daak-puh
squeeze	pòt-cuk	pòt-cuk	cəkiam
stab	hapak-cuk	hapak	ŋkàm
stag, hart	kræe	kræe	təbuŋ
stage, era	thop	chàn(T)	càn(T)
stand(v)	hatao	hatao	yìin(T)
star	hnaj	hnaj	pəkaay
start	ca?	ca?	-
steal	klot	klot	lɔɔs
steam(v)	sèŋ	-	-
step(v)	kèm	kèm	wàas
stew(v)	tom-fa?	dun	buh-hniar
stick, club	lè?	lè?	may-riaw(T)
stir	haka	haka	khon(T)
stir up	cò?/hadoh	cho?	?ɔɔk
stomach	pèŋ	pèŋ	pùŋ
stone	mò?	mò?	hmɔɔ
stone jar	hari	hari	khnɔn
stop(iv) (tv)	tè?	tè?	yùt(T)
storm	patè?	-	-
story	kapàt-ca	?apàt-ca	khyaal
straight	pɔm	rìaŋ(T)	rìaŋ(T)
strap, belt	thò	thò	tiaw
straw	cèk-hnam	cèk-hnam	khem-khat(T)
strength	chak	chak	chok-chroo?
string	thòt/sahòt	thòt	kəmlaj(T)
strong	cèk	cèk	cooŋ
stuck	thòt	?anjàh-thòt	kheŋ-reŋ(T)
student	pàŋ/neak	pàŋ/neak	dian
study	kaphèa	kwah-phèa	nak-rian(T)
	pòh-lòc	haton	rìan(T)

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
suck, smoke	habet/sót	habet/sót	duut(T)
sugar	hakrèa	hakrèa	daak-taan(T)
sugarcane	bao	bao	tam-baw
sugarpalm	nɔm-ta	nɔm-ta	taan(T)
sun	ŋoa	ŋua	təhay
swallow(v)	ŋít	ŋít	ŋùuc
sweep	kwoh	kwɔh	kraas
sweet	dat	dat	tədaac
swell(v)	kùh	kùh	kùus
swim	bɔn	bən	biin
sword	sean	sean	buun-taaw
table	khəŋ	khəŋ	to?(T)
tail	hata?	hata?	pətaa?
take	ket	ket	ciat
take leave	cao-ra?	?a-kla-ra?	laa-?əey(T)
take off	patet-tha?	hatac-tha?	thoot-tit
tame	yèn-mòn	hatih	chial
tasty	ròh	ròh	mɔp
tear(v)	hacac	hacac/sac	cheec(T)
tell	ham-habah	ham	kəchco
ten	cöh	cöh	cas
ten-thousand	lak	lak	mìñ(T)
tender, soft	dan	dan-dot	lə?un
Thailand	dəŋ-sem	dəŋ-sem	-
thank	taŋ-kùn	wàŋ	dii(T)
that(adj)	kòh	kòh	te?
(pron)	?ikòh	?ikòh	kòh
there(loc)	?atə?	thi-kòh	boon-te?
(yonder)	tə?	te?	te?
they	dəh-to?/nèah	dəh/niah	jìn
thick	tam	tam	sətəm
thief	palot	klot	khmòoy(T)
thigh	tì	tì	tìl
thin	krae	krae	triiw
thing	kròp/kapot	kròp	khɔɔŋ(T)
think	chòp/theaŋ	hyɔp/khic(T)	kit(T)
thirsty	thanj	thanj	heew-daak
thirty	pae?-coh	pae?-coh	pii?-suas
this(adj)	nɔ?	nɔ?	?ɔɔ?
(pron)	?inɔ?/?inɔ?	?inɔ?	?ɔɔ?
thorn	halèa?	halèa?	chlàa?
thread	cèk	cèk	sen(T)
three	pae?	pae?	pii?
thresh	pùt	pùc	sii(T)
throat	kɔ?	hadon-ko?	chruŋ-khwii
throw	klɔh-tha?	klɔh	kəwaan(T)
throw away	klɔh-tha?	klɔh/tha?	bɔh

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
thunder	hakrè-haròn	hakè-harèñ	kèr-kèər
tie(v)	tèak-ha?	tèak	tàk
tiger	-	-	mpeej
tile	krop	krop	krəbianj(T)
time	?akhon	?akhèñ	wèlìa(T)
tired	doŋ	doŋ	lèkèh
together	mòa-ca?	mùa-ca?	pàk-sèkco?
tomorrow	?ayèah	?ayìah	ŋùur
tongue	katəc	?atac	ntaak
too	kam	kam	cèər
too much	klàŋ-?a	klàŋ-?a-nì?	kèən-?ar
tooth	ŋèak	ŋìak	ŋìak
torch	kamot-that	kaban-phləñ	fay-faa(T)
trade	ku-san-cea?	hle-ŋìah-ko?	təpòk
(exchange)			
(sell)	ku-san-cea?	sa?-ràn	khyoo?-ràaj
transplant	ta	ta	təl
trap(v)	pam	pam	tanj
(n)	hapam	hanèak	-
tree	nɔm-chu?	nɔm-chu?	tam-chuu?
(clf.)	nɔm	nɔm	tam
trousers	paj-mae	kaŋ-kəñ(T)	kaŋ-keenj(T)
true	dam	dam/dəh	?uar-?əəy
(correct)			
(truthful)	tèah/kwəh	tèah/kwəh	keweh-dəh
(really)	cèt	tèah-ra?	-
try hard	kla?-cat	mic-kè?	phyəyaam(T)
tube	karak-tùñ	thò-dac	tòo(T)
turn	hatah-?a	liaw(T)	liaw(T)
twenty	ba-cöh	ba-cöh	baa-suas
two	ba	ba	baar
uncle	?anae	?anae	cəwaay
(Pa01Br)			
(PaYrBr)	?inae	?inae	maam
under	?ahmo	hamo	kroɔm
understand	klah	cih-cat	sədím
until	tù	tè/cɔn(T)	con(T)
uproot	haceak-patet	bot	puk
urinate	nɔm-tha?	nɔm/pɔt-sao	?aa-cruh
use	səŋ-coa/	cia?-ka	?uar
	plup-?asèñ		
usually	?ulò-?ulò(often)	mòa-hne?	baan-tìi(T)
vegetable	hane-ke	hane-halàñ	hlaa?-chuu?
very	ka-kwəh	klàŋ	khlèñ/?ɔh
Vietnam	beat-nam	yuan(T)	yùan(T)
village	kwan	kwan	mùu-doŋ(T)
voice	pasaj	?asaj	càs

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
vomit(v)	ha?ɔ?-tst	ha?ɔ?	taa?
walk	kwac	kwac	?ar(go)
wall	hatèaŋ	hatèaŋ	pəmaŋ
wane(moon)	feak	kiak	rɛəm(T)
war	nan	nan	kaan-ròp(T)
wash	krat	krat	lääŋ(T)
water	dac	dac	daak
wax	plae	plae	phluuy
way, kind	hakao	klàŋ	yaan(T)
we	poy	poy	wey
weave	tac	tac-tac	taaŋ
wedge(n)	chu?	halèm	səniit
weight	kayàŋ	lèm-yàŋ	khchèŋ
well (healthy)	khah/mìp-mìp	mòng-mìp-ra?	pəlah
well(water)	dac-palaŋ	dac-kalaŋ	nuuŋ-daak
west	?ahmo-ca	palat-kyā	-
wet	dèk	dək/diak	phrèm
what(pron) (interr)	mo?	?imu	chmò?
when(conj) (interr)	mo?-la	?amù-rao	chmò?
where, which (interr)	la?	la?	mia(T)
whet	calò?	chi-lò?	tàng-nèw
which one	?i-ya-la	jiah-to?	?an-nèw
white	pù?	pù?	kooč
who	yea?-ka-la	nih-kòy	?anah
why	mòa-tòh	pa?-halá	paa?-naan
wicked	pare?	pare?	khle?
wide	hloa	hloa	kwaŋ(T)
width	pyèt	hat-hloa	-
wife	hayaŋ-prèa	prèa	phràw
will(mv)	ma?	ca?(T?)	na?
win	màn	hnéah	chnà?(T?)
wind(n)	ca	kya	khyaal
window	paŋ-hataŋ	hataŋ	nàa-taan(T)
wing	hnean	hniaŋ	-
winnow	sət	fat(T)	kòom
wire	cèk-lòt	cèk-luat	sən-lùat(T)
wish to	(mèah-) ñèah	mìc-kè?	bok
without	?qñ	?qñ	?ət
woman	maki	nih-prèa/ maki(old)	phràw-phràw
wood	chu?	chu?	chuu?
work(n) (v)	kalon	kalon	ñàan(T)
	klon-kalon	klon-kalon	paa?-ñàan(T)

<u>Eng.</u>	<u>BM</u>	<u>TM</u>	<u>NK</u>
worm (maggot)	kayao?	kayao?	ŋcuu?
(earth)	pakot-tae?	krac-tae?	-
(intest)	parùn	krac	-
wound(n)	hara?	hara?	mraa?
wrap	kwi	kwi	khiliw
write	chu	chu	khian(T)
year	hnam	hnam	hnaam
yellow	sac-mic	si-liaŋ(T)	pəcuun
yes	yè?	yè?	mò?
yesterday	naŋjane?	kane?	?ahəy
yoke(n) (v)	lè?-tɔ-kamah	?ek	?eɛk(T)
you(polite) (familiar)	cuk-na-mòa-cɔ?	cùc-mùa-cɔ?	tiam
(insult)	peah	niah	-
younger sibling	bea?	peh	peh
	tè?	bea?	-
		tè?	ŋcii?

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