

U

Jan-Olof Svantesson
University of Lund

In this article, the name U is proposed for a group of closely related Austroasiatic languages. One of the U languages, spoken in the village Pǎ Xep in Yúnnán province in China, is the main subject of this article. U belongs to the little-known Angkuic group in the Palaungic branch of Mon-Khmer. Its synchronic phonology is described in some detail, as well as the phonological processes that relate it to Proto-Angkuic and Proto-Palaungic. A vocabulary and a short text are given. U tonogenesis is of particular interest since it utilizes unusual mechanisms, such as vowel height and vowel length neutralization.

1. Background

Among the 55 officially recognized minority peoples in China there are four whose languages belong to the Austroasiatic language family. One of them is Gin (京 Jīng), i.e. Vietnamese, who live in Guǎngxī near the Vietnamese border. The other three, Va (佤 Wǎ), Blang (布朗 Bùlǎng) and Ta-ang (德昂 Dé'áng; until 1985 called Bēnglóng 崩龙) are found in the southwestern part of Yúnnán province, as are some other Austroasiatic groups (Kammu, Phsin, Mang, Man Mit and Hu), which are not officially recognized as minority peoples.

The map on the next page shows the distribution of the Va, Blang and Ta-ang according to a map of Chinese nationalities issued by the Chinese Academy of Social Sciences in 1981. None of these three peoples is linguistically homogeneous, although the different languages spoken by one people are generally referred to as "dialects" by Chinese linguists.

The Va (Zhōu and Yán 1984) speak at least three mutually incomprehensible languages, Paràuk (Barāog), Lava (Rvīa?), and Va proper (Vɔʔ). The written language is based on Paràuk as spoken in the village Yaong Soi (翁帅 Yánshuài) in Cāngyuán 沧源 county.

The Ta-ang (Palaung; Chén, Wáng and Lài 1986) consist of several rather small groups, who speak different languages, such as Ta-ang (Ang, Palaung), Pale and Rumai.

The majority of the Blang (Lǐ, Niè and Qiū 1986) live in and around Bùlǎngshān 布朗山 commune in Měngzhǎi 勐海 county in Sipsong Panna (西双版纳 Xīshuāng Bǎnnà) autonomous prefecture. Their language (Blang or Plàng, also known as Samtau) belongs to the Waic subbranch of the Palaungic branch of Mon-Khmer (see Diffloth 1980, *forthc.*). For some reason, several scattered groups, who live much further to the north in Yúnnán, are also included among the Blang. The languages of two of these groups have been mentioned briefly in Chinese sources: Wáng and Chén 1982a, 1982b, and also Svantesson, Wáng and Chén 1981 describe the "Blang dialect" spoken in Pèngpàn 碰拏 in Dàfēngshān 大风山 commune in Shuāngjiāng 双江 county, and Zhōu and Yán 1983 describe the "Blang dialect" of Pàngpǐn 胖品 in Yǒnggē 永革 commune in Shuāngjiāng. Zhōu and Yán use the name U (乌 岛) for the language described by them, and this name is used for some of these groups in other Chinese sources as well (see *Zhōngguó shǎoshù mínzú*, p. 393 and *Yúnnán shǎoshù mínzú*, p. 203). I will use the names Pèngpàn U and Pàngpǐn U for these two languages. The name Puman (濮曼, 蒲满 or 蒲蛮) is or has been used by the Chinese for these (and for other) minority groups.

The language described here is spoken in the village Pǎ Xep /pǎǎ xèp/ (邦协, Bāngxié in Chinese) in Shāhé 沙河 commune in Shuāngjiāng county, and in one neighbouring village. According to my informant, they have no real ethnonym, but refer to themselves simply as ʔú ʔè "our people". The language shares certain characteristics with the two U languages mentioned above, such as denasalization of final nasals in certain positions. These features are also found in two Angkuic languages described in older sources, namely Pou Ma of Henri d'Orléans 1898 and P'u-man of Davies 1909. (I am very grateful to Gérard Diffloth who called my attention to these older sources and told me that U was related to the languages described in them and to the other Angkuic languages.) In these languages, the word ʔu means "human being", and some of these peoples refer to themselves by this term, so it seems appropriate to use the name U for these languages as well. In all, some 3000-5000 people speak U languages; Pǎ Xep U is spoken by

about 700.

I had the opportunity to work with an informant for this language during a short visit to the Central Institute for Nationalities in Běijīng in May 1982. The informant, Ay Tit Saw, was a 28-year old male native of Pǎ Xep, and a fourth-year student at the institute. A vocabulary was recorded and discussed briefly with Ay Tit. The text given in Section 4, (together with a Chinese translation) was also recorded by him, and was re-recorded with him by Lǐ Dàoyǒng, who also helped me with the transcription and translation of it.

A general description of Shuāngjiāng Blang society and history is given by Liú et al. 1981.

2 Synchronic phonology

2.1 Words

Almost all recorded non-compound words are mono- or sesquisyllabic. Sesquisyllabic words consist of an unstressed minor syllable followed by a major syllable. There may be more polysyllabic words than can be inferred from the vocabulary given here, however. One reason for this is that I have not investigated the expressives, a wordclass that is rich in polysyllabic words in other Austroasiatic languages, such as Kammu (see Svantesson 1983).

Examples:

monosyllabic:	vè	"thing"
	səp	"rotten"
	fĩã	"rice plant"
sesquisyllabic:	səxáã	"shoulder"
	mpháã	"place"
	pachip	"bird"

2.2 Major syllables

A major syllable consists of an onset consonant and a rhyme. The rhyme consists of a vowel kernel and at most one coda consonant. Only a restricted set of consonants occur as codas (see 2.2.2).

Each major syllable has a tone (see 2.2.3). Whether minor syllables have tones or not has not been investigated.

There are some words which consist of a syllabic nasal. Only two have been recorded:

m̃	"one"
ń	in ń saŋĩ "today"

Both these are reduced forms. The full form of "one" is *mò*, and the reduced form *m̃* is used before classifiers. *ń* is probably a reduced form of *ní* "this".

2.2.1 Onset consonants

The following consonants occur major syllable initially:

labial	dental	palatal	velar	uvular	glottal
p	t	c	k	q	ʔ
ph	th	ch	kh	qh	
	ts				
	tsh				
m	n	ɲ	ŋ		
	l				
f	s			χ	h
v					
w	y				

IPA symbols are used, except that *y* = IPA [j].

The notation used is probably somewhat subphonemic. In particular, *c* and *ts*, *ch* and *tsh* seem to be in almost complementary distribution: except in one word, the palatals have been found only before the front vowels *i* and *e*, while *ts* and *tsh* are found only before back vowels. The distribution is perhaps not completely complementary, however, since there are two words, *tsɿ* "name" and *ncɿɿ* "dirty", in which *ts* and *c* occur before the same vowel. The onset consonant *ch* occurs only in sesquisyllabic words, and only three examples have been found: *pachip* "bird", *nchip* "nail" and *nchí* "louse" (see also 3.3).

There are only two examples of [w] in my data, and one of them occurs before a rounded vowel: *phá wɔ̃ã* "window". The other is *wáy* "three". /v/ ([v] or [β]) is found only before unrounded vowels. There is, however, a minimal pair *wáy* "three" and *váy* "after" (cf. also *ʔavây* "tiger"); consequently, /w/ and /v/ are to be regarded as different phonemes. /w/ and /v/ have different historical origins in the cited words, cf. Lamet *ʔlɔ̃ɔy* "three", Kammu *wàay* "after" (and Lamet *rwàay* "tiger").

The phoneme /s/ has the allophone [ç] before *i* and *e*, and before *u* and *ɨ* it is sometimes pronounced as [ʃ]. Otherwise it is [s]:

sì	[çìʔ]	"tree"
sé	[çé]	"charcoal"
sò	[sòʔ]	"dog"
sús	[sús] or [ʃús]	"hair"

/y/ is sometimes pronounced with strong friction, almost like [ʒ].

Examples of all initial consonants:

páy	"spittle"	mâ	"field"
tû	"stomach"	năy	"mother"
cí	"to do"	ɲăɿ	"to laugh"
kí	"pinetree"	ɲây	"eye"
qí	"nature"	lây	"squirrel"
ʔây	"smoke"	fè	"left"
phây	"you (dual)"	sò	"dog"
thán	"to weave"	χò	"to wait"
nchìp	"claw"	hò	"to go"
khà	"fish"	váy	"after"
qhà	"soul"	wáy	"three"
tsó	"ant"	yàp	"to die"
tshò	"ten"		

No major syllable initial clusters occur. Words with nasal + consonant have been interpreted as having a nasal minor syllable rather than an initial cluster (see 2.3).

2.2.2 Rhymes

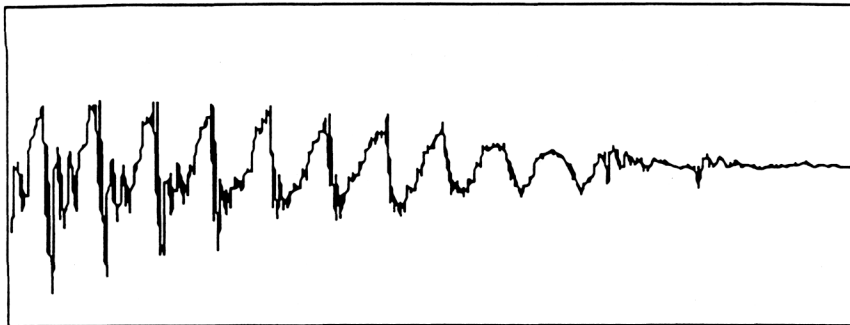
The major syllable rhyme has the structure V(C), i.e. it has a vowel kernel, which can be followed by at most one consonant coda. There is no length distinction in the vowels. The vowel system is as follows:

i	ɨ	u
e	ə	o
ɛ	ɑ	ɔ

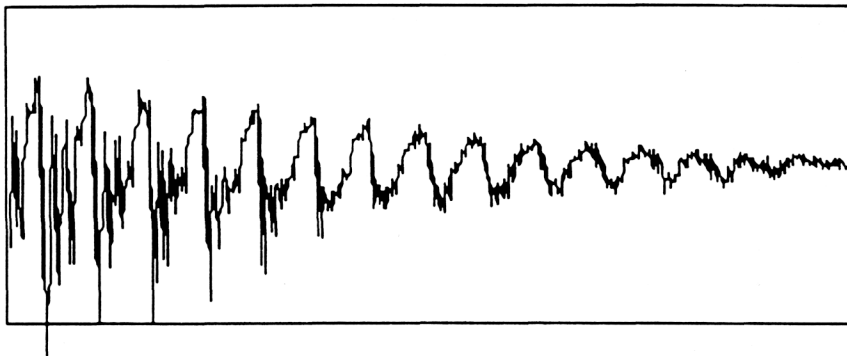
As major syllable codas, only the following consonants are found:

p	t	
m	n	ã
w	y	ɿ

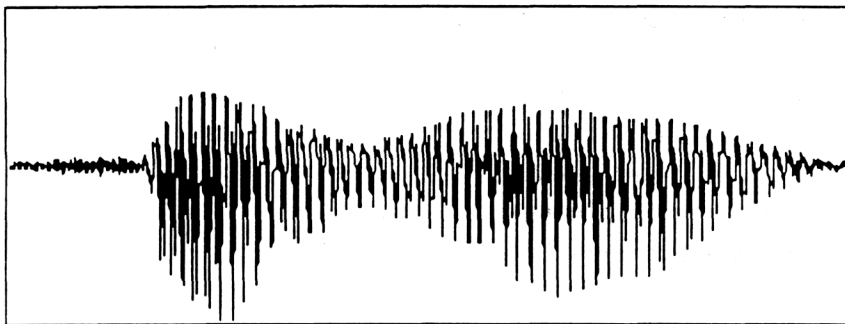
I am in some doubt as to the phonetic value of /ɿ/, but it can probably be described as a voiced pharyngeal approximant with an [a]-like quality. I transcribe it with the IPA character /ɿ/ (voiced pharyngeal fricative), although it has only very little fricative noise. Oscillograms of [ɿ] in different tokens of the word súɿ "hair" (Figure 1) show that it can be pronounced with irregular periods, i.e. with creak (ex. a) or with friction noise overlaid on regular periods (ex. b). In the first case it is



a. [ʃ] in *súʃ* "hair"



b. [ʃ] in *súʃ* "hair"



c. *súʃ mʊʃ* "feather"

Figure 1. Oscillograms of [ʃ] in *súʃ* "hair" (top and middle) and of *súʃ mʊʃ* "feather" (bottom).

similar to the pronunciation of /ʕ/ in Cairo Arabic (see Norlin 1983), and in the second case it is heard as an [a]-like offglide accompanied by a [h]-like sound, so that the entire word is pronounced something like [suqh]. The oscillogram of *súʕ mǔʕ* 'feather' (ex. c) shows that [ʕ] is voiced throughout when it is followed by a voiced sound. Historically, ʕ has developed from *k, and phonotactically it still functions as a stop. /ã/ is the corresponding nasal, having the effect of creating nasalized diphthongs [iã] etc. Probably the entire diphthong is nasalized, and /aã/ is pronounced [ã]. In open syllables beginning with a nasal consonant, the vowel is nasalized, as is especially noticeable for /a/, which cannot be distinguished from /aã/ in this position. Thus there is no contrast between for instance /ma/ and /maã/, both being pronounced [mã]. I have transcribed such words using the simple vowel a.

The following combinations of vowels and coda consonants occur in my data:

	Ø	p	t	m	n	ã	w	y	ʕ
i	+	+	+		+	+	+		+
e	+	+	+	+	+				
ɛ	+	+	+	+	+	+	+		+
ɨ	+	+			+	+			+
ə	+	+	+	+	+				
a	+	+	+	+	+	+	+	+	+
u	+	+	+	+	+	+		+	+
o	+	+	+	+	+			+	
ɔ	+	+	+	+	+	+		+	+

Some of the gaps may be accidental and due to the small size of my material, but some are systematic. Thus there are historical explanations for the absence of the rhymes *im, *im and *um (which occurs only in one Tai loanword) and for the impossibility of combining the mid vowels e, ə and o with ã and ʕ (see 3.1(2) and 3.1(4)). It is common in Mon-Khmer languages that front vowels do not combine with final y and back rounded vowels do not combine with final w.

Examples of each rhyme:

ɣìp "village"
 khép "to swallow"
 tẹp "to cut"
 ɣìp "to run after"
 nẹp "thunder"
 yẹp "to die"
 sanùp "navel"
 saphỏp "lung"
 tỏp "to answer"

-
 sém "night"
 mêm "cat"
 -
 sâm "hungry"
 sanàm "blood"
 ʔapùm "story"
 ʔóm "water"
 pôm "mountain"

ʔavìt "to run"
 fèt "flea"
 kèt "heavy"
 -
 ʔàt "he"
 ʔàt "big"
 mút "grave"
 ʔốt "to stay"
 fỏt "to wipe"

pìn "to forget"
 cèn "sheep"
 sanêñ "green"
 ɣîñ "silver"
 fán "child"
 ʔàn "not"
 ʔakùn "finger"
 phón "four"
 món "son-in-law"

khìʔ "head"
 -
 ʔêʔ "elder sibling"
 kìʔ "horn"
 -
 sáʔ "rice"
 kùʔ "moth"
 -
 fỏʔ "to crow"

kíã "foot"
 -
 fêã "lip"
 fỉã "rice"
 -
 káã "house"
 qúã "knee"
 -
 ʔôã "many"

kíw "mountain pass"
 -
 péw "monkey"
 -
 -
 ʔáw "saliva"
 -
 -
 -
 síáw "flute"

-
 -
 -
 -
 -
 ʔăy "we (dual)"
 qhúy "broken"
 khóy "to have"
 móy "cow"

ʔí	"others"
ʔè	"we (pl.)"
tè	"arrow"
ʔaví	"to throw"
ʔâ	"good"
ʔá	"two"
ʔú	"human being"
ʔò	"I"
só	"bee"

2.2.3 Tones

U has a complicated tone system for an Austroasiatic language, with probably four contrasting tones. I have determined the tones by listening, and then checked them against a pitch recording of my entire tape-recorded material made on a F-J Electronics fundamental frequency meter with a mingograph. In some cases, it was still difficult to classify the tones into categories in a consistent way, and since I had no opportunity to check my tone analysis with the informant, mistakes may remain. In some cases (most often when a word was only recorded in an unstressed position) the tone could not be determined, and this is indicated by the absence of a tone-mark.

I have noted four tones: high level (´), low level (`), falling (^) and rising (ˇ). Syllables with a stop coda cannot have the falling tone, and with very few exceptions this is also true for the coda ʔ. In other types of syllables, i.e. open syllables or those ending in a sonorant *m*, *n*, *ã*, *w* or *y*, the rising tone is rare. The low tone is often accompanied by creak, or, in open syllables, by a final glottal stop. For example, *sì* "tree" is pronounced [çìʔ] at least when said in isolation. The falling tone is also accompanied by a final glottal stop in open syllables. Since the glottal stop is optional, especially in connected speech, I have regarded it as a concomitant feature of the tone rather than a coda consonant.

2.3 Minor syllables

Only four minor syllables have been found: *ʔa*, *pə*, *sə*, and a nasal whose place of articulation depends on the following consonant. The vowel *a* of the minor syllables *ʔa*, *pə* and *sə* is written out in the notation used, although it is probably non-phonemic and can be supplied by a rule. It is reduced to [ə] or Ø in running speech.

Examples of non-nasal minor syllables:

ʔaʔáǎ	"rock"
ʔavây	"tiger"
pəʔàǎ	"to lie"
pachìp	"bird"
səʔáǎ	"bone"
səŋáy	"far"

There seem to be no systematic restrictions on the combination of non-nasal minor syllables and onset consonants, but only the following combinations of nasal minor syllables and initial consonants have been found (one example of each is given):

mp:	mpét	"to spit"
mph:	mphà	"to fly"
mm:	mmòŋ	"road"
ml:	mlì	"louse"
nt:	ntùt	"mouth"
nth:	nthǎŋ	"tongue"
ntsh:	ntshǎt	"sand"
nn:	nnî	"this"
ŋɲ:	ŋɲà	"skirt"
nc:	ncíŋ	"dirty"
nch:	nchí	"louse"
ŋk:	ŋkú	"skin"
ŋkh:	ŋkhù	"rice grain"
ŋqh:	ŋqhà	"to steal"
ŋX:	ŋXí	"fruit"

Thus, at least in my data, the nasal minor syllable combines only with major syllable onsets which consist of stops, affricates, nasals, / or ʔ. It is realized as *m* if the onset is labial or /, as *n* if it is dental or palatal, and as *ŋ* if it is velar or uvular.

3. Diachronic phonology

Thomas and Headley 1970 divided the Austroasiatic (Mon-Khmer) languages spoken in Yúnnán province in China, and in northern Burma, Laos and Thailand into two branches, Palaungic and Kammuic. This classification was made on lexicostatistical grounds and it still remains to be confirmed by strict historical methods. The history and classification of Palaungic has been studied by Wilhelm Schmidt 1905 and Robert Shafer 1952, but no modern study on the entire Palaungic branch has been published. Recently our knowledge about the the history of Palaungic has been increased considerably by the work of Mitani Yasuyuki (1965, 1972, 1978), Michel Ferlus (1974), Gérard Diffloth (1976, 1977, 1980, 1982), and others. According to Diffloth 1982, Palaungic can be divided into West Palaungic (Rumai, Riang and Danaw) and East Palaungic (Lamet, Angkuic and Waic).

The Angkuic group is known from wordlists given in older sources: Lefèvre-Pontalis 1892 (Khas Kon Keu), Lefèvre-Pontalis 1896 (Khas Kiorr), d'Orléans 1898 (Pou Ma), Scott and Hardiman 1900 (A Mők, Āng-kú and Mōng Lwe) and Davies 1909 (P'u-man). Data from the Angkuic language Mok has been published by Wenk 1965 as "Yā Āng Lăwā", and later by Diffloth 1982. To this should be added Pǎ Xep U described here, Pèngpàn U and Pàngpǐn U, mentioned above, and Hu (Svantesson *forthc.a*), another language spoken in Yúnnán province in China.

The Angkuic languages are characterized by a shift in the initial stops, by which originally voiceless unaspirated stops have become aspirated and voiced stops have become voiceless. (In Austroasianist jargon this has been called a shift of the Germanic type (Haudricourt 1965, etc.), a term that may have been rendered unsuitable by recent developments in Indo-European phonology, however; see e.g. Haudricourt 1975 or Gamkrelidze and Ivanov 1984.) Angkuic has also maintained the Proto-Mon-Khmer contrast between **s* and **h*, which has been lost in other Palaungic and Kammuic languages, except Danaw (Luce 1965).

As mentioned above, Pǎ Xep U, Pèngpàn U, Pàngpǐn U, Pou Ma and Davies' P'u-man share the feature that final nasals have become stops in certain environments, and for this reason I propose the name U to be used for all these languages.

Pǎ Xep U, Pèngpàn U and Pàngpǐn U also share the development of a complex tone system, which is not common otherwise in Mon-Khmer (the only well-known examples are in the Viet-Muong branch). As to

whether Pou Ma and P'u-man had tones cannot be determined now. Hu has a simple two-tone system, and the only other well-documented Angkuic language, Diffloth's Mok, does not have tones.

Pā Xep U differs from other U languages by having developed uvular sounds from *r* or clusters with *r* and by having "weakened" the velar codas **k* and **ŋ* into *ɤ* and *ã* (see 3.1(4) below).

The U peoples, like Angkuic peoples in general, are small scattered groups whose languages seem to have diverged from each other rather drastically during a comparatively short time. According to my informant, the people of Pā Xep do not know any other group who speak a mutually comprehensible language, and the many changes which have taken place in Pā Xep U as compared to other U languages (especially "uvularisation" and reduction of initial clusters) must certainly make mutual comprehension difficult, if not impossible.

In what follows, the main sound changes in U (i.e. Pā Xep U if not otherwise specified) will be described. Comparisons are made mainly with Hu (Svantesson forthc.a), with Proto-Waic (PW; Diffloth 1982) and with Lamet (Lindell, Svantesson and Tayanin 1978). Hu is an Angkuic language, and Proto-Waic and Lamet represent the two other branches, which together with Angkuic make up East Palaungic in Diffloth's classification.

The almost identical final consonant systems of Proto-Waic and Lamet appear to reflect Proto-Palaungic (and even Proto-Mon-Khmer) rather faithfully. Proto-Palaungic single-consonant initials are preserved well in Proto-Waic, but in Lamet voiced and voiceless initial consonants have merged, giving rise to lax (ʔ) and tense (ʔ̰) registers, respectively. The difference between the two registers is most probably one of phonation type, the lax register having relatively breathy, and the tense register relatively creaky phonation. The registers do not differ in fundamental frequency.

The vowels have undergone certain changes in Proto-Waic as compared to Proto-Palaungic (see Diffloth 1980), and the Proto-Palaungic opposition between long and short vowels has disappeared. This opposition is lost in U too, but is retained in Lamet. No detailed studies of the Proto-Palaungic vowels have been published, and such a study is outside the scope of this article; therefore, only some general comments on the relation of U vowels to the vowels of other Palaungic languages will be made here.

Some remarks will also be made on the relation of U to other Angkuic languages, in particular Hu. The only other language for which a fair amount of reliable data is available is Mok (Diffloth 1982; the vocabulary given by Wenk 1965 is not very reliable). All the Angkuic material available to me and related to recorded U words is given in the wordlist in Section 5, where possible Proto-Waic and Lamet cognates are given as well.

3.1 Rhymes

Generally in Mon-Khmer, the most stable part of a word is its final consonant (major syllable coda). In U, however, the final consonants have gone through rather drastic changes, so that the Proto-Palaungic system of final consonants, which was probably (cf. Diffloth 1976):

p	t	c	k	ʔ
m	n	ɲ	ŋ	
	l			
	r			
	s			h
w		y		

has been reduced to

p	t	ʃ
m	n	ã
w	y	

The U vowel system has lost the Proto-Palaungic length opposition but is otherwise quite conservative.

The following phonological processes have been involved in the reshaping of Proto-Palaungic rhymes in U:

(1) The Proto-Palaungic opposition between long and short vowels has been lost in U. This opposition was inherited from Proto-Mon-Khmer and is retained in many languages outside Palaungic, such as Kammu. It has also disappeared in Hu, in some forms of Palaung (Ta-eng), and in all Waic languages. The loss of the length opposition is regarded by Diffloth 1980:92 as an areal feature.

Lamet is spoken in areas completely surrounded by Kammu, and in Lamet the vowel length opposition is fully preserved. Lamet examples

will be used throughout to indicate Proto-Palaungic vowel length.

Although vowel length was lost both in U and in Hu, it has left traces in the tones. In Hu, syllables which had a long vowel have low tone (̀) and those with an originally short vowel have high tone (´). In U, tone development is more complicated, as will be described in 3.2 below.

Since Proto-Palaungic high long vowels (**ii*, **uu* and perhaps **ɨi*) behave as short vowels in all respects in Hu and U (see (2) and 3.2 below), it must be assumed that the loss of vowel length took place in two steps, so that long and short high vowels had merged already in Proto-Angkuic. Further evidence for this can be found in Mok, a language which retains the Proto-Palaungic length distinction for at least some non-high vowels, but not for high vowels (see the data given in Diffloth 1982). It can also be mentioned that there are relatively few words with short *i* and *u* in Lamet, so the functional load of the length opposition in these vowels was probably low in Proto-Palaungic.

(2) Nasal coda denasalization: a final nasal has become the corresponding stop if it was preceded by an etymologically short vowel. Words in which this development has taken place have low tone (this prevents merger with words with original final stops, which have high or rising tone, depending on vowel length; tone development is treated in 3.2 below).

Nasal coda words with high vowel (*i*, *u* and perhaps *ɨ*) have undergone denasalization even in cases where the Lamet, and thus Proto-Palaungic, vowel is long. The Hu cognates of these words have high tone, so Proto-Palaungic long high vowels are treated as short vowels both in Hu and in U, suggesting, as mentioned above, that they had become short already in Proto-Angkuic.

Thus the rule for nasal coda denasalization can be formulated as: a nasal coda has become the corresponding stop if it was preceded by a short vowel in Proto-Angkuic, or, equivalently, by a short non-high or any high vowel in Proto-Palaungic.

The following table shows how combinations of different vowel types with final nasals and stops have developed in U. In this table, *A* represents a non-high vowel, *I*, a high vowel, *N*, a nasal and *C*, a stop.

Final:			Examples:			
PPal	PAng	U	U	Hu	Lamet	
*AAN	*AAN	ˈAN	yâm ʔóm phón pán	yàm ʔòm ʔaphòn pàɲ	yàam ʔóom póon pàəɲ	"to cry" "water" "four" "white"
*AN	*AN	ˈAC	yàp kèt ŋkhèt	yám ncén khín	yàm kcèn kén	"to die" "heavy" "tooth"
*AAC	*AAC	ˈAC	ʔót ntshăt	ʔòt nθàc	máac	"to stay at" "sand"
*AC	*AC	ˈAC	khăt mpét	khăt pét	kát pəc	"cold" (Hu: "sick") "to spit"
*IIN	*IN	ˈIC	ʔìp sùp ŋqhùt	ʔím θúm maɣúɲ	ʔíim húum prùuɲ	"alive" "to bathe" "termite"
*IN	*IN	ˈIC	phət samèt	phín méɲ	rmpín krmìn	"female" "star"
*IIC	*IC	ˈIC	sút		húuc	"to sting"

The tone of the *AAN type rhyme depends on the initial consonant. I have no examples of Proto-Palaungic */C/. In the words labeled PPal */IN/, vowel height is judged only from Lamet.

Examples of velar nasals, which have undergone the same changes, and then developed further, are given in (4) below.

Nasal coda denasalization explains why there are no rhymes *um, *im or *im in U (except in the Tai loan ʔapùm "story"). The rhymes un and in exist, but in those words which have a clear etymology, n has developed from *l (see (6) below; the word ʔŭn "father" is an exception, cf. Lamet ʔúuɲ). Words with the rhymes iã, iã and uã exist in U, but Hu and Lamet cognates show that they originally had non-high vowels (cf. (4) below):

This denasalization rule applies to those languages which I have called U (including Davies' P'u-man and d'Orléans' Pou Ma), although the conditioning environments may be somewhat different in different languages. The process is not found in other Angkuic languages, or other

Palaungic languages in general. Cf. (UW = Pèngpàn U (Wáng and Chén 1982a, 1982b), UZ = Pàngpǐn U (Zhōu and Yán 1983); Hu is taken as an example of Angkuic outside U):

U	UW	UZ	Pou Ma	P'u-man	Hu	
χìp	phrip ⁵⁵			p'i	phwím	"old"
pachìp		tʃ'im ⁵¹		si	ʔasím	"bird"
nthàp				t'ai	nthám	"egg"
phət			pote	p'õ	phín	"female"
sət				sə	paθán	"five"
khĩʔ		k'ik ³⁵		ch'i		"head"

(3) Palatal stops and nasals have merged with the corresponding dentals:

	U	Hu	PW	Lamet	
*-ɲ :	pán	pàn	*baɲ	pàaɲ	"white"
	thán	thàn	*taɲ	tàaɲ	"to weave"
	ʔǎn	kaʔàn	*ʔaɲ	kʔáaɲ	"wasp"
	ʔǔn	ʔaʔún		ʔúuɲ	"father"
	ŋqhùt	maʔúɲ	*ŋriɲ	prùuɲ	"termite"
	phət	phín	*pɹɲ	píɲ	"to shoot"
*-c:	sút		*híc	húuc	"to sting"
	kùt		*gíc		"to burn"
	ntshăt	nθàc	*hmac	máac	"sand"

Cf.:

*-n:	phón	ʔaphòn	*pon	póon	"four"
	sət	paθán	*phon	phán	"five"
	phət	phín	*rmpɹn	rmpín	"female"
*-t:	khăt	khăt	*kɔt	kát	"cold" (Hu: "sick")
	năt	θanăt	*snat	snàat	"gun"

This merger has left no trace in the tones, except perhaps in a few words, see 3.2(8). Hu retains palatal codas, but in Mok, palatals have in many cases merged with the dentals. The data from other Angkuic languages are not always easy to interpret on this point, but several forms, such as A Mők *a-paing* "white", Khas Kon Keu *khègne* and A Mők *kəing* "tooth", Pèngpàn U *h'pruik*⁵⁵ "termite", suggest that palatal codas are at least partially retained.

(4) Velar coda weakening: the Proto-Palaungic velar codas **k* and **ŋ* have developed into pharyngeal approximants *ʕ* and *ã* in U. Before these codas, the mid vowels *e*, *ə* and *o* do not occur, being replaced by the corresponding high vowel (*i*, *ɨ* or *u*). Thus, Proto-Palaungic long mid and high vowels have merged before **k* (except for the tone which is rising and high, respectively), but not before **ŋ*, which became *ʕ* after the high long vowels. The following table shows how different combinations of vowels and the velar codas have developed. Here, *A* represents a low vowel, *E*, a mid vowel and *I*, a high vowel.

Final:			Examples:			
PPal	PAng	U	U	Hu	Lamet	
<i>*AAŋ</i>	<i>*AAŋ</i>	<i>ˈ^Aã</i>	saxáã	saplàn	simplàn	"shoulder"
<i>*Aŋ</i>	<i>*Aŋ</i>	<i>ˈAʕ</i>	ŋqhàʕ	mauán	mràn	"horse"
<i>*AAk</i>	<i>*AAk</i>	<i>ˈAʕ</i>	nthǎʕ	nthàk	pláak	"tongue"
<i>*Ak</i>	<i>*Ak</i>	<i>ˈAʕ</i>	káʕ	kák	kàk	"to bite"
<i>*EEŋ</i>	<i>*EEŋ</i>	<i>ˈ^Iã</i>	kíã líã quíã	cèŋ kòn	cèen léen kròen	"foot" "yellow" "knee"
<i>*Eŋ</i>	<i>*Eŋ</i>	<i>ˈIʕ</i>	mìʕ			"town"
<i>*EEK</i>	<i>*EEK</i>	<i>ˈIʕ</i>	qhĩʕ sũʕ	phvèk nasòk	préek yóok	"chest" "ear"
<i>*Ek</i>	<i>*Ek</i>	<i>ˈIʕ</i>	víʕ			"work"
<i>*IIŋ</i>	<i>*Iŋ</i>	<i>ˈIʕ</i>	qhìʕ		mplíŋ	"sky"
<i>*Iŋ</i>	<i>*Iŋ</i>	<i>ˈIʕ</i>	khìʕ χìʕ phùʕ	θíŋ	kíŋ ríŋ pún	"head" "bamboo" "to blow"
<i>*IIk</i>	<i>*Ik</i>	<i>ˈIʕ</i>	líʕ	lèk	lìik	"pig"
<i>*Ik</i>	<i>*Ik</i>	<i>ˈIʕ</i>	súʕ ʔalíʕ	θúk	khúk rìik	"hair" "to boil"

The words *mìŋ* and *víŋ* are Tai loans (Tai Nüa *mɿŋ*⁴ and *vek*¹, respectively). In the variety of Tai which is the source of U loans, there is no length opposition except for the vowel *a*.

The velar weakening process is rather late, and seems to be characteristic of Pā Xep U as distinguished from other Angkuic and even other U languages:

U	UW	UZ	Pou Ma	P'u-man	Hu	
sũŋ			ioc	shu	nasòk	"ear"
khĩŋ		k'ik ³⁵		ch'i		"head"
líŋ		lik ³¹	li	li	lèk	"pig"
kĩŋ	krɿk ⁵⁵					"horn"
káã	kəŋ ⁵¹	kəŋ ⁵¹	kang	kan	kəŋ	"house"
kíã			tiang	chin	cəŋ	"foot"

Pèngpàn and Pàngpǐn U have kept final *k* and *ŋ*. In the word for "foot", Pou Ma seems to have diphthongised the vowel (and perhaps nasalized it), and the *-n* rather than expected *-ng* in P'u-man may denote nasalization. Final stops are hardly ever written in the entire P'u-man material, and it is difficult to know if this is a mistake, or if final stops disappeared altogether in this language (which seems less probable to me); thus the P'u-man data is difficult to interpret on this point. The other Angkuic languages generally retain velar codas.

(5) Final **r* has been lost without any segmental trace. The tone has developed somewhat differently in syllables with final **r* and in originally open syllables, however. The following examples have been recorded:

U	PW	Lamet	Hu	Mok	
ʔá	*lʔar	ʔláar	kəʔà	ʔaa	"two"
mâ	*ʔmar	màar	mà		"field"
saʔá		sʔáar	θaʔàw		"sour"
yé	*ʔer	ʔéer	ʔìɿ	ʔee	"fowl"
mphà	*pɿr	mpír	phíɿ	phaə	"to fly"
pó	*bor	pòor		sapoo	"evening"

Final **r* has been lost at least in some positions in most Angkuic languages.

(6) Words with Proto-Palaungic **l* have developed in different ways. The following examples have been noted:

U	PW	Lamet	Hu	Mok	
saŋêŋ	*sŋal	sŋàal	tsaŋàl		"green"
ʔakùŋ		plkùul			"finger"
mphùŋ		púul			"seven"
mùŋ	*kmil	kmùul	mmjúl	muu	"silver"
pìŋ					"to forget" (Blang pìl)
ŋàw	*ŋol	ŋàl	ŋál	ŋa(h)	"fire"
phaw	*pɔl/r	pál	mphál		"mortar"
nthò		tɔɔl		pathɔɔ	"six"
hò	*hɔl	híl			"to go"
tû	*kdɔl	ktíl	katúl	katuu	"stomach"

In the examples, **l* > *n* after high vowels and **aa*, **l* > *w* after short **a*, and **l* has disappeared (perhaps changing the vowel) in other cases. The exact formulation of the conditioning contexts would require more examples and a better understanding of vowel development in Palaungic.

Final **l* is retained in Hu, but like final **r*, it is lost in Mok. For the other Angkuic languages the data are scanty, but at least in some words in e.g. Pou Ma (*moul* "silver") and Āng-kú (*ka múll* "silver", *ngall* "fire"), *l* is retained, whereas it has disappeared in others.

(7) The following words with the proto-coda **s* have been found:

U	PW	Lamet	
ʔás	*ʔos	ʔés	"to swell"
ŋǎs	*kŋas	kŋàas	"to laugh"
ʔaŋhǎs		krsáas	"lightning"
ʔamò	*rmɔs		"banana"
sé	*ksɔs	krsás	"charcoal"
χí	*kris	krís	"bear"
khá	*kɔs		"to cook"
phì	*pes		"to sweep"
phó	*pos	póos	"barking deer"
kí		krís	"to count"

Moreover, *sandə* "comb" probably had final **s*, since the Kammu cognate is *crìas*, and the Hu form is *ngàt* (in Hu, **-s* regularly becomes *-t*).

Apparently *s became ʃ after *aa and *a, and disappeared otherwise.

(8) The proto-coda *-h is probably found in:

U	PW	Lamet	
pǎʃ		pàh	"bright"
tshâ	*ryah		"hundred"
vâ	*wah	wàh	"wide"
ntû	*ndih		"to fall"
sê		sáh	"to geld"

Here as well, the reflexes are ʃ or Ø, but the exact conditions for their occurrence cannot be stated. It can be noted that these words (except pǎʃ) have falling tone.

(9) The codas *-w and *-y are retained as such (see the vocabulary for examples).

(10) Proto-Waic and Lamet lack open syllables (against a well-established near-universal, see e.g. Greenberg, Osgood and Jenkins 1963:xxv). Syllables with final glottal stop in these languages correspond to open syllables in U and to syllables with glottal stop in Hu and Mok. In U tonogenesis, syllables with this final behave basically like syllables with long vowel and sonorant coda, and I will assume that these syllables were open at some Pre-U stage, before tones developed. As mentioned above (2.2.3), open syllables with low or falling tone have an optional final glottal stop, or creak, but this seems to be a secondary development.

U	Hu	Mok	Lamet	
salè	salé?		slèɛ?	"rain"
samə	θamá?	sima?	ʔmáa?	"wind"
thè	kathé?	sathɛ?	ktá?	"earth"
sanĩ	ŋí?	ŋi?	ŋìi?	"day"
nchí	nsí?		sí?	"louse"

There are open syllables in Hu and Mok, but they are secondary, due to the loss of final consonants (see examples in (5) and (6) above).

The ordering of the above-mentioned phonological processes is an interesting problem, especially as regards the processes (1), (2), (3) and (4), which involve several phonemes each. These rules can be formulated informally as:

(1) $V \rightarrow [-\text{long}]$

(2) $\text{nasal} \rightarrow \text{stop} / [V, -\text{long}] \text{ ___ } *$

(3) $\text{palatal} \rightarrow \text{dental} / V \text{ ___ } *$

(4) $\text{velar} \rightarrow \text{pharyngeal} / V \text{ ___ } *$

Rule (1) must obviously be ordered after (2). Rule (3), which is an area feature found in areas dominated by Tai languages, is completely independent of the other rules. As mentioned above, (2) is regarded as characteristic of U languages, and (4) is characteristic for Põ Xep U. The $*l > n$ process, which is also common in areas under Tai influence, must follow (2), since $n < *l$ has not changed into t after short vowels.

3.2 Tones

U has acquired tones in a complicated way. The process will be described here, although it is not fully understood in all details. At least four different factors are involved:

- a. Vowel length
- b. Vowel quality
- c. Final consonant type
- d. Initial consonant type

The relevant consonant types are voiceless obstruent vs. voiced sonorant. The Angkuic consonant shift made all obstruents voiceless, so that the distinctive use of the feature "voice" disappeared in the phoneme system, all obstruents being voiceless and all sonorants voiced. For this reason an orthodox tone development based on merger of voiced and voiceless initial consonants, as has taken place in e.g. Kammu and Blang is impossible in Angkuic. U tonogenesis is discussed further in Svantesson forthc.b.

The following tonogenetic rules can be formulated from my data (statements about original vowel length refer to the Proto-Angkuic stage where all high vowels are short, rather than to Proto-Palaungic):

(1) Syllables with an originally short vowel followed by a voiced sonorant coda have low tone in U. (Note that nasals have become stops in this position):

U	Hu	Lamet	
yàp	yám	yám	"to die"
sùp	θúm	húum	"to wash"
nchìp	nθím	lmhím	"claw"
sàt	paθán	phán	"five"
kèt	ncén	kcèn	"heavy"
phèt	phín	pín	"to shoot"
ηqhùt	maxúŋ	prùuŋ	"termite" (Hu: "ant")
ηqhàŋ	maxán	mràn	"horse"
qhìŋ		mplíŋ	"sky"
ηàw	ηál	ηàl	"fire"
mùn	mmúŋ	kmùul	"silver"
mphùn		púul	"seven"
mphà	phíx	mpír	"to fly"
ʔùu		ʔúuy	"to smell"

But:

tû	katúl	ktìl	"belly"
ʔǔn	ʔaʔúŋ	ʔúuŋ	"father"

There are about fifty examples of this tone rule in my data, and the two words given are the only clear exceptions. The word for "father" is exceptional also in another way, since it retains the final nasal; the expected form would be *ʔùt.

There are also several low tone words ending in a nasal or *ã*, for instance *lám* "log", *ʔapùm* "story", *sanám* "blood", *cèn* "sheep", *mòn* "blue", *lèã* "cold", *fìã* "rice" and *thùã* "bag". Except for words ending in *n* developed from **l*, native words with nasal coda should not have low tone (by the joint effect of rules 3.1(2), 3.2(4) and 3.2(5)), and most of these words are Tai loans. They might have come into the language after nasal coda denasalization, or perhaps the U speakers' knowledge of Tai prevented them from applying the denasalization rule to these words.

(2) Words with an originally short vowel followed by a stop or *-s have high tone. The following examples have been found:

U	Hu	Lamet	
khát	khát	kát	"cold" (Hu: "sick")
sút		húuc	"to sting"
kás	kák	kàk	"to bite"
sás	thák		"rice"
lís	lèk	lìik	"pig"
phís		pík	"to break"
ʔalís		rlìik	"to boil"
sús	thúk	khúk	"hair"
ʔás	phaʔát	ʔés	"to swell"
sé	khasét	krsás	"charcoal"
χí	ʔaxèt	kríis	"bear"
kí		krìs	"to count"

But:

kút	"to burn" (PW *gic, Kammu kùuc)
ʔamò	"banana" (PW *rmɔs)

(3) Words with an originally long vowel followed by a stop or *-s have a rising tone. Some fifteen examples occur in my data, e.g.:

U	Hu	Lamet	
lắt		lắat	"to fear"
ʔắt	ʔắt		"to stay"
ntshắt	nthắc	mắac	"sand"
qhắs	thvắk	trắak	"buffalo"
yắs		kyắak	"sambar deer"
qhı́s	phvắk	préek	"chest"
sı́s	nasòk	yóok	"ear"
ŋắs	ŋgə́t	knắas	"to laugh"
ʔaqhắs		krsắas	"lightning"

But:

nắt	θanắt	snắat	"gun"
ʔếs		ʔéek	"elder sibling"
phó	phòt	póos	"barking deer" (Hu: "sambar deer")

In these three rules, only vowel length and type of final consonant (voiceless obstruent or voiced sonorant) are relevant, but when there was an open syllable, or a long vowel followed by a sonorant, the tone also depends on the type of initial consonant(s) and vowel quality

according to the following somewhat tentative rules.

(4) Words with an originally open syllable or a long vowel followed by a sonorant have a falling tone if all prevocalic consonants were sonorants. The following examples have been found:

U	Hu	Lamet	
mâ	mà	màar	"field"
ɲâ		yàa	"grandmother"
ɲê	ɲá?	ɲàa?	"to itch"
vâ			"Va" (PW *(r-)wa?)
ʔavâ			"door" (PW *r-wa?)
mê			"sugar" (PW rm-me?)
mî	mé?	mìi?	"you"
χâã	ʋàŋ		"flower" (Kammu ràaŋ)
yôã	yùŋ		"beautiful" (Hu: "good")
yâm	yàm	yàam	"to cry"
ʔavây		rwàay	"tiger"

The same tone is found in the following words, although at least the second one has a pre-vocalic obstruent:

U	Hu	Lamet	
ɲây	saŋày	ɲàay	"eye"
saŋên	tsaŋəl	ɲàəl	"green"

(5) Words with an originally long vowel followed by a sonorant have a high tone if there was a voiceless obstruent (including ʔ and h) among the prevocalic consonants:

U	Hu	Lamet	
thám		ktáam	"crab"
phón	ʔaphòn	póon	"four"
pán	pàn	pàaŋ	"white"
χáã		ráaŋ	"thorn"
kíã	cèŋ	cèeŋ	"foot"
líã	lèŋ	léeŋ	"high"
saʔá	θaʔàw	sʔáar	"sour"
ʔá	kaʔà	ʔláar	"two"
yé	ʔìʋ	ʔéer	"fowl"
sáw		háaw	"to climb"
wáy	kaʔòy	ʔlòoy	"three"
khóy	khòy	kóoy	"to have"

In the examples "thorn" and "high", the tense register in Lamet shows that there was an original *h* or *ʔ* cluster (cf. Proto-Waic **hloŋ* "high"). The conditioning segments have sometimes disappeared or been changed because of the phonological development in U. There are about forty examples of this rule in my data, but also some exceptions, including those with falling tone given above, those with rising tone given in (8) below, and some with low tone:

U	Hu	Lamet	
səyĩǎ		yèen	"light"
sanəm	ngəm	nám	"blood"
nthò		tóɔl	"six"

(6) Words with an original open syllable and with a voiceless obstruent among the prevocalic consonants have a high tone if the vowel was high. The following examples have been found:

U	Hu	Lamet	
ʔí	ʔí	ʔíiʔ	"people"
cí			"to do" (PW <i>*g-/jiʔ</i>)
nchí	nsíʔ	síʔ	"louse"
kí			"pinetree" (PW <i>*ŋgiʔ</i>)
qí	pʰíʔ	príiʔ	"nature"
qí	kʰíʔ		"spirit"
sí	pasíʔ	plsíʔ	"rope"
thí	thíʔ	tíiʔ	"arm"
ŋkú		ŋkúuʔ	"skin"
pú		mpúuʔ	"breast"
qú	palúʔ	plúuʔ	"salt"
qú			"deep" (Kammu <i>crùʔ</i>)
sú		súʔ	"sick"
nthú		ntúʔ	"hole"
thú		túuʔ	"vegetable"

But:

sanĩ	ŋíʔ	sŋíiʔ	"day"
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(7) Words with an original open syllable and with a voiceless obstruent among the prevocalic consonants have a low tone if the vowel was non-high. There are about 25 examples of this rule, including:

U	Hu	Lamet	
khà		káa?	"fish"
là	lá?	lóa?	"leaf"
ŋqhà	maʔá?	ntràa?	"to steal"
samà	θamá?	ʔmáa?	"wind"
sathà	θathá?	ntá?	"tail"
salè	salé?	slèe?	"rain"
nè	ŋé?		"meat"
thè	kathé?	ktá?	"earth"
mlì		mplè?	"louse"
sì	θé?	khée?	"tree"
tì	katá?		"nose"
lì			"penis" (Km tlé?)
ʔò	ʔó?	ʔóʔ?	"I"
sò	só?	só?	"dog"
samò	samó?		"stone"
khù	ŋkhó?		"yesterday"
ŋkhù	ŋkhó?		"rice grain"

Words ending in a glottal stop always have high tone in Hu, which explains the apparently irregular Hu tones in these words.

Exceptions to this rule are the pronouns *ké* "they (plural)" and *phé* "you (plural)", as well as *ŋxí* "fruit", where the Hu and Lamet cognates (*phlé?* and *plée?*) indicate that the vowel was originally non-high.

Under unknown conditions, mid vowels have become high, so that the vowel height oppositions *i/e* and *u/o* have been partially replaced by tone oppositions *í/ì* and *ú/ù* (cf. *sí* "rope" vs. *sì* "tree" and *qú* "salt" vs. *khù* "yesterday" etc.). This tonogenetic mechanism is easily explained by the relatively high intrinsic pitch in high vowels, but nevertheless, no clear example of this kind of tonogenesis has been previously given (see Hombert 1978:96).

(8) There are some words which do not end in a stop or ʔ, but which have the rising tone. They include the following with a clear etymology:

U	Hu	Lamet	
saŋĩ	ŋí?	ŋii?	"day"
ʔǎn	kaʔàŋ	kʔáaŋ	"wasp"
ʔǔn	ʔaʔúŋ	ʔúuŋ	"father"
nǎy	ʔanàŋ		"mother"
ʔǎy	ʔàŋ	ʔáay	"we (dual)"
phǎy	pháw	pàar	"you (dual)"
kǎy	káw	kàar	"they (dual)"

All these words have or have had a palatal final consonant or vowel, which might explain the rising tone, although there are several words with *palatal coda and with regular tone development (e.g. *thán* "to weave" and *khóy* "to have").

(9) Most words with final **h* have falling tone (see examples in 3.1(8) above). It is a well-known fact that final *h* lowers fundamental frequency at the end of the preceding vowel (Hombert 1978).

In conclusion, U tonogenesis is unusually complicated and provides clear examples of mechanisms (merger of long and short vowels and merger of high and mid vowels) which until now were not known to cause tone differences in languages. Besides this, familiar microprosodic properties of different consonant types are involved in U tonogenesis. See Svantesson *forthc.b* for further discussion.

3.3 Single consonant onsets

As mentioned several times, originally voiceless unaspirated stops have become aspirated, and voiced stops have become voiceless unaspirated in the Angkuic languages, including U. For the labial, dental and velar stops, this development is straightforward:

	U	Hu	PW	Lamet	
*p-:	phó phèt mphà	phòt phíj phíx	*pos *pɣj *pɣr	póos píj mpír	"deer" "to shoot" "to fly"
*b-:	pú pán mpét	pàn pét	*bɣ? *baj	mpùu? pàaj pèc	"breast" "white" "to spit"
*t-:	thí thán sathà	thí? thàn θathá?	*te? *taj *snta?	tíi? táaj ntá?	"hand" "to weave" "tail"
*d-:	tè tû ʔatǎʔ	katúl phlǎk	*kdɣl *rndak	tèɣy ktìl plǎak	"arrow" (Parauk tè) "belly" "palm of hand"

*k-:	khà		*kaʔ	káaʔ	"fish"
	khát	khát	*kət	kát	"cold" (Hu: "sick")
	ŋkhám		*kam	ŋkáam	"husk"
*g-:	kùt		*gic		"to burn" (Kammu kùuc)
	kás	kák	*gok	kàk	"to bite"
	káã	kàn	*ŋaŋ	kàaŋ	"house"

Original voiced and voiceless stops are preserved in Proto-Waic, but have merged and led to the development of lax and tense registers in Lamet.

Before ɔ, *t has usually developed into tsh and *d into ts:

U	Hu	PW	Lamet	
tshəm	kathəm	*ktəm		"liver"
ntshɔ̃t		*ntɔ̃t		"to smoke"
ntshɔ̃s	nthək		sntɔ̃k	"brain" (Hu: "head")
tsóm		*dəm	tɛəm	"low"

In the case of palatal stops, the situation is more complicated, and it is convenient to treat them together with *s* and *h*. According to Diffloth 1977, Proto-Palaungic had the initials *j- (voiced palatal stop), *ts- (from Proto-Mon-Khmer *c-), *s- and *h- (but not *c-). For *j-, I have only two examples from U:

U	Hu	PW	Lamet	
kíã	cèŋ	*jɔŋ	cèŋ	"foot"
kèt	ncén	*s-jen	kcén	"heavy"

Thus *j-, which has the expected reflexes *c-* in Hu, *j- in Proto-Waic and *c-* with lax register in Lamet, has the reflex *k-* in U.

Only Ankuic and Danaw (Luce 1965) have retained the Proto-Palaungic opposition between *s- and *h-. (In Danaw the opposition is realized as one between *θ-* and *h-*.) In other branches of Palaungic, including Waic and Lamet, they have merged into *h-*. On the other hand, U *s-* is the result of neutralization of the Proto-Palaungic opposition *ts/*s. This opposition is preserved as *s/θ* in Hu, and as *s/h* in Waic and Lamet:

	U	Hu	PW	Lamet	
*ts-:	sò	sóʔ	*sɔʔ	sóʔ	"dog"
	sém		*som	séem	"night"
	sé	hasét	*ksɔs	krsás	"charcoal"
*s-:	sùp	θúm	*him	húum	"to bathe"
	sɪʔ	θán		hín	"bedbug"
	sús	θúk	*hik	khúk	"hair"
	sət	paθán	*phɔn	phán	"five"
*h-:	hò		*hɪl	híl	"to go"
	hət		*hɔc		"to finish"

There are also a few words where some Northern Mon-Khmer languages have *c-* with tense register or high tone, while Waic has *s-*:

U	Hu	PW	Lamet	Kammu	
sú		*siʔ	súʔ	cúʔ	"pain"
sàʔ	sán	*sɔŋ	cán	cán	"bitter"

Ferlus 1978 reconstructs *tʃ- for these cases, while Diffloth 1977 suggests a cluster *kt- in "bitter".

There are also some words where U has the major syllable onset *ch*:

U	Hu	PW	Lamet	
nchí	nsíʔ	*siʔ	síʔ	"louse"
pachìp	ʔasím	*sem	sím	"bird"
nchìp	nθím	*mhem	lmhím	"nail"

The first two words have Proto-Palaungic *ts-, from Proto-Mon-Khmer *c- (cf., from Diffloth 1977, Semai *cɛɛpm* "bird", *cɛɛ* "louse") but the third word must have Proto-Palaungic *s-. Apparently, the expected reflex *ch* is preserved after minor syllables in U, and furthermore, *s and *ts have merged after the nasal minor syllable by the insertion of a homorganic epenthetic stop (the initial combination *ns-* does not occur in U, see 2.3). The word for "sand", *ntshăt* confirms this, since the Hu cognate *nθàc* and Lamet *máac* (< *mhaac ?) show that there was a Proto-Palaungic *s.

As mentioned above, Proto-Palaungic does not have *c-. It is found, however, in at least one Proto-Waic form, *cək "sambar deer". This corresponds to U *yǎʔ*, Lamet *kyàak* and Kammu *tyáak*, and thus Proto-Palaungic had an initial cluster with *y* as second element. (See also

Diffloth 1977:45-46; this word is also an example of an early Austroasiatic loan into Chinese, see Wén 1979.)

Of the remaining single initials, only *r- has undergone any substantial change, having a voiceless uvular fricative χ as its reflex. Similar developments have also taken place in some Lamet ("Khamet") dialects (Mitani 1965, Lindell, Svantesson and Tayanin 1978), in the Bùlǎngshān dialect of Blang proper (Zhōu and Yán 1983, Lǐ, Niè and Qiū 1986), as well as in several Tibeto-Burman languages. This is an areal feature, cutting through genetic classifications, a situation of some general interest in view of the similar development in parts of Europe. Obviously, the development of uvular r has taken place independently in these two areas. From the point of view of distinctive feature theory (as formulated e.g. by Jakobson, Fant and Halle 1952 or Chomsky and Halle 1968), this development should be rather unnatural, most of the distinctive features of r and χ (or χ) being different. See Lindau 1985 for a discussion of this (cf. also Maddieson 1980:102).

Examples:

U	Hu	PW	Lamet	
χáǎ			ráǎŋ	"thorn"
χèǎ		*rɛŋ		"strength" (Tai loan)
χìŋ	θíŋ		ríŋ	"bamboo"
ŋχùp	tŋúum	*knrim	ntrùum	"under"
χâǎ				"flower" (Kammu ràǎŋ)

3.4 Onset clusters

There were numerous initial clusters in Proto-Palaungic, but in the analysis adopted here no major syllable onset clusters occur in U. Many clusters have been reduced to single consonant onsets, or are partly retained in the form of a minor syllable + major syllable onset.

Onset clusters with a stop as first element have often been simplified by dropping the first consonant; in some cases, however, uvular stops have developed from these clusters. Examples of stop deletion:

U	PW	Lamet	
ʔǎn	*ʔaŋ	kʔáaŋ	"wasp"
kèt	*s-jen	kcèn	"heavy"
tû	*kdɤl	ktìl	"stomach"
thám	*ktam	ktáam	"crab"
thè	*kteʔ	ktáʔ	"earth"
tshəm	*ktəm		"liver"
mè	*rmeʔ	kmèeʔ	"husband" (PW: "male")
mùn	*kmił	kmùul	"silver"
ɲǎʔ	*kɲas	kɲàas	"to laugh"
lì	*kliʔ		"penis"
χìp	*prem	príim	"old"
χí	*kris	kríis	"bear"
χuʔ			"to fall" (Kammu <i>k'ruk</i>)
yǎʔ	*cak	kyàak	"deer"
sàt	*phon	phán	"five"
sì	*khiʔ	khéeʔ	"wood"
sé	*ksos	krsás	"charcoal"

Clusters with a stop and *l or *r have most often developed into *q* (from *voiced stops) or *qh* (from *voiceless stops):

U	PW	Lamet	
qí	*breʔ	príiʔ	"nature"
qú		plùuʔ	"salt"
qú	*ʔriʔ		"deep" (Kammu <i>crùʔ</i>)
qít		ŋkràac	"to scratch"
qhĩʔ	*prok	préek	"chest"
qhìʔ		mplíiŋ	"sky"
qhǎʔ	*krak	tréek	"buffalo"

When *r was preceded by a minor syllable with a nasal (in which case an epenthetic stop sometimes intervenes), the U reflex is *ŋqh*:

U	PW	Lamet	
ŋqhàʔ	*mrɔŋ	mràŋ	"horse"
ŋqhi	*ŋriʔ		"pestle"
ŋqhùt	*ŋriŋ	prùuŋ	"termite"
ŋqhà	*mraʔ	ntràaʔ	"to steal"

In the other U languages there has been some reduction of onset clusters, but uvularization has taken place only in Pǎ Xep U. Elsewhere in Angkuic, stop clusters are better preserved:

U	UW	UZ	Pm	Pn	Ak	Mok	Hu	
thè		t'ei ⁵¹	panthaï	t'ui	ka té	səthɛ?	kathé?	"earth"
mùn			moul		ka múll	muu	mmúl	"silver"
tû				tu	tu kún	kətuu	katúl	"belly"
qhǎɽ	thrək ⁵¹		trac	tsa	kāk		thvək	"buffalo"
qú			plou		plu		pəlu?	"salt"
qú	gru ⁵¹	gru ⁵¹						"deep"
xip	phrip ⁵⁵			p'i		phim	phím	"old"
xip	rip ⁵⁵			zi	him		xím	"village"

3.5 Minor syllables

The history of minor syllables in U is complicated. In Proto-Palaungic there must have been many sesquisyllabic morphemes, some of them with quite complex initial consonant clusters, and furthermore, there must have been a rich morphology, vestiges of which are still found in e.g. Lamet, Parauk and Palaung. Much of this morphology was based on prefixation or infixation of consonants, and thus affected the initial part of a word. Lamet still has a rather complex system of minor syllables, and some major syllable initial clusters, so that complicated initial parts of words can be built, providing a phonotactic domain for the morphological operators to work in.

In U only four minor syllables remain, and major syllable onsets can consist of only one consonant. Thus a great reduction process has taken place, which cannot be described in detail, however, until we have more knowledge about U and about the history of Palaungic in general. Here only an outline of the history of the minor syllables can be given. Since the minor syllable *pə* occurs in just a few words, only the other three will be treated.

3.5.1 The minor syllable *sa*

There are many different origins for this minor syllable in U:

U	Hu	PW	Lamet	
samà	θamá?	*kma?	?máa?	"wind" (PW: "sky")
saʔá	θaʔàw		sʔáar	"sour"
savàã	θavàŋ			"to ask"
sathàt	θathán			"old"
sathà	θathá?	*snta?	ntá?	"tail"
saphǒp	θmphúp			"lung"
samò	samó?	*smo?		"stone"
salè	salé?	*hle?	slèe?	"rain"
saxáã	saplàn		smlàaŋ	"shoulder"
sanêŋ	tsanàl	*sŋal	sŋàal	"green" (Kammu cŋáar)
sanəm	ngəm	*hnam	náam	"blood"
sanəp	ngím	*nvm	nìm	"year"
sanà	ngàt			"comb"
sanáy	ŋʔnáy	*sŋay	sŋàay	"far"
saʔáã	kaʔàn	*sʔaŋ	sŋʔáaŋ	"bone" (Kammu cʔáaŋ)
sanĩ	ŋí?	*sŋe?	sŋiì?	"day"
samèt	mén	*sʔmʏŋ	krmìŋ	"star"

The *θ/s* contrast in Hu should go back to Proto-Palaungic **s/*ts*, which has merged into *s* in U (see 3.3 above). The U *san-*/Hu *ng-* correspondence might go back to a **jnh-* cluster (see Svantesson forthc.a. for further discussion).

3.5.2 The minor syllable *ʔa*

This minor syllable is the regular reflex of **r*; in a few cases it corresponds to other minor syllables:

U	PW	Lamet	
ʔavây	*rway	rwàay	"tiger"
ʔavâ	*r-waʔ		"door"
ʔaŋàŋ	*rŋŋ	rŋàŋ	"iron"
ʔamò	*rmɔs		"banana"
ʔatǎŋ	*rndak	pltàak	"palm of hand"
ʔakùn		plkùul	"finger"

3.5.3 The nasal minor syllable

A nasal minor syllable (see 2.3 for its different realizations) regularly corresponds to a minor syllable containing a nasal in other Palaungic languages:

U	PW	Lamet	
mphà	*pɛr	mpír	"to fly"
nthú	*kntiʔ	ntúʔ	"hole"
ntshǒt	*ntɔt		"to smoke"
nchíp	*mhem	lmhíim	"nail"
ŋkáǎ	*gaŋ	ŋkàaŋ	"rat"
ŋkhám	*kam	ŋkáam	"husk"
ŋqhǎŋ	*mrɔŋ	mràŋ	"horse"

But cf. also:

nchí	*siʔ	síʔ	"louse"
ŋxí	*pliʔ	pléeʔ	"fruit"
nthò		tóɔl	"six"

3.6 Vocabulary

As seen above, a large part of the basic vocabulary in U is common to the Palaungic languages and many words are inherited from Proto-Mon-Khmer or even Proto-Austroasiatic. There are also words which are specific to Angkuic, and not found elsewhere, e.g. *kháy* "rice" (see Diffloth 1982). There are still other words in the basic vocabulary which I have found only in Pǎ Xep U, and which I cannot identify as loans, e.g. *fán* "child", *pôm* "mountain", *péw* "monkey" and *mêm* "cat".

According to Liú et al. 1981, the Shuāngjiāng Blang have had much contact with the Tai (傣 Dǎi, i.e. Tai Núa) people, and have adopted Hinayana Buddhism in its Tai form. The town Měng Měng 勐勐 (*mìŋ* *mìŋ* in U), the administrative center of Shuāngjiāng county, is inhabited mainly by Tai. There are rather many Tai loans in U, and in the wordlist (Section 5), related Tai words are given, usually from Tai Núa dialects

described by Gedney 1976 or Harris 1975, which seem to be rather close to the sources of U loans, though they differ in details. The Tai loans have come into U at different times, as can be seen from the forms of the words in U. For instance, in some words the initial stops have not undergone the consonant shift characteristic of Angkuic, but in others they have.

Liú et al. 1981 also say that the Shuāngjiāng Blang have been in contact with the Lahu, but apparently this has had very little influence on the language.

There are very few possible Chinese loans: *pāw* "to protect" (Chinese *bǎo*), *tsǎw* "stove" (Chinese *zào*) and *síaw* "flute" (Chinese *xíāo*). The last-mentioned word violates the usual phonotactic pattern in U by having a diphthong and the coda *w*.

4. Text

The following text, (together with a Chinese translation) was recorded on tape by the informant. Although I have made no systematic investigation of U grammar, some basic facts can be derived from the text and from information gathered informally from the informant.

Morphologically, U is an isolating language, and as might be expected U syntax does not differ basically from the syntax of other Northern Mon-Khmer languages. The basic word order is SV0:

ʔò nê	líc	"I killed the pig."
I	kill pig	

Adjectives are constructed as intransitive verbs, without any copula, but nominal predicates take the copula *mə̀*:

ʔóm	qú	"The water is deep."
water	deep	

tsì	ʔò mə	ʔay	tít	"My name is Ay Tit."
name	I	is	Ay Tit	

The order of constituents in a phrase is usually head-modifier. Thus there are prepositions rather than postpositions, and the modifiers in a noun-phrase follow the head noun. This holds for adjectives, possessive nouns, numeral phrases and relative clauses:

xìp	ʔàt	"big village"
village	big	

năy	ʔò	"my mother"
mother	I	

kíā	pôm	"the foot of the mountain"
foot	mountain	

ʔú	ʔá	ʔí	"two people"
person	two	CLF	

ʔapùm	ʔí	tò	ʔò	"stories that people have told"
story	people	tell	PERF	

Demonstratives are an exception to this, since they precede the head noun:

ní nàp-sì "this tree"
this tree

Numerals require a classifier. Some nouns are their own classifiers, e.g. *χìp* "village":

χìp m̃ χìp "one village"
village one village

U has a three-by-three system of personal pronouns:

	singular	dual	plural
1st person	ʔò	ʔǎy	ʔè
2nd person	mí	phǎy	phé
3rd person	ʔàt	kǎy	ké

4.1 Text

ʔót nâw pôm yîn-nân hóǎ nây-sanǐ xút khóy m̃
Stay in mountain Yúnnán direction sun go-down there-is one

kén. Kíǎ pôm khóy ʔóm mpéǎ, khiŋ pôm khóy
place. Foot mountain there-is water Mpeǎ, head mountain there-is

nîŋ mpà sì, nâw thêŋ pôm khóy χìp m̃
jungle forest tree, in middle mountain there-is village one

χìp. Tsì ʔí ten mà pǎǎ-χèp. Tà nnî tu mà χìp ʔò.
village. Name people give is Pǎ-Xep. At this just is village I.

Xìp ʔè yôǎ ku yôǎ, mí ku mí, mà mpháǎ lâ
Village we beautiful also beautiful, rich also rich, is place tea

kə. Tham thú-sì tsó-ʔŭn-tsó-nǎy na ʔót nnî nâ kháy cí
much. From old-times ancestor just stay here eat rice do

vîŋ mpǎǎ χìp mpǎǎ kǎǎ tî. Tsó-ʔŭn-tsó-nǎy thú-sì khóy
work build village build house REFL. Ancestor old-times have

ʔapùm ʔôã ʔôã tò lóã lác. Nâw ʔapùm ʔí tò ʔò,
story many many tell down come. In story people tell PERF,

tsó-ʔũn-tsó-năy thú-sì ʔốt tà mpháã sanáy sanáy. Tà nnê
ancestor old-times stay at place far far. At that

khóy tùã ʔàt, ku khóy nĩr mpà sì. Yò tĩ
there-is flatlands big, also there-is jungle forest tree. Get REFL

nâ yò tĩ tan, mà ʔú mà khóã ku vin. Váy
eat get REFL sacrifice, be man be livestock also prosper. After

nê khóy ʔú la-ʔasás tà ʔè. ʔè cí nân mà ké,
that there-is people jealous at we. We make war with they,

ʔú ké ʔôã pháw, vet pakhoy ʔìp, pakhoy káã
people they many too, surround encircle village, encircle house

ʔè. Cí nân híã, ʔè pə háy pē ké. Nâw khĩr ʔìp
we. Make war long, we not-yet fight win they. In head village

ʔè khóy nàp-sì m̃ nàp. Tha-vá ʔí kò cí nân, patsaw
we there-is tree one CLF. From people begin make war, Buddha

na pháy thí-thà-qí lác m̃ ʔí. Sém mē sém mē ku lác
then send spirit come one CLF. Night any night any also come

tèp nê nàp-sì. Patsaw tò, ʔàn kòn sanĩ mē, nté ní thà-qí
cut that tree. Buddha say, not mind day what, if this spirit

lăť qí păť tèp ní nàp-sì ten xur, tu mà ʔè ʔàn pē yò.
before sky bright cut this tree let fall, then is we not win PERF

Patsaw na nê ʔè ʔavít tĩ mēť. Váy nê ní thà-qí tèp
Buddha then tell we run REFL fast. After that this spirit cut

ní nàp-sì, tèp híã ʔàn sãã xur. Mpá mà ní thà-qí sém
this tree, cut long-time not can fall. Reason is this spirit night

mē pə yaã tèp hot, qí na kuã păť, ní nàp-sì
any not-yet ? cut finish, sky then as-soon-as bright, this tree

na kăť yaã-píã tĩ.
then come-out original-shape REFL.

Khóy m̄ saŋĩ n̄w th̄er sém, lă̄t yé fós ní n̄p-sì
 There-is one day in middle night, before cock crow this tree

ná-tho-lâ xur ʔə. ʔú ʔɔ̄ na yò ní vè ʔàn mà tã
 suddenly fall PERF. People many then see this thing not is NOM

ʔê, na va kăp ʔú sathàt ʔú n̄ ʔavìt tĩ h̄s
 good, then tell even people old people young run REFL direction

n̄y-saŋĩ kăt. Hò hí̄ ʔàt, l̄s xot tà p̄ã-x̄ep ʔàn yá
 sun come-out. Go long-time big come arrive at P̄ã-X̄ep not run

yò. P̄ã-x̄ep lă̄t ní mà m̄phá̄ v̄ ʔôt, ké yò ʔè l̄s
 PERF. P̄ã-X̄ep before this is place Va live, they see we come

xot, ké na qú. V̄ lă̄t ní s̄ã t̄p khī ʔú, ké
 arrive, they then move. Va before this can cut head people, they

ʔàn t̄p khī ʔú ʔè. M̄pá mà ʔè ʔôt tà p̄ã-x̄ep, n̄w
 not cut head people we. Reason is we stay at P̄ã-X̄ep, in

p̄m p̄ã-x̄ep khóy m̄t tsó-ʔũn-tsó-n̄y ké. Tham mà ʔè
 mountain P̄ã-X̄ep there-is grave ancestor they. From is we

ʔôt tà p̄ã-x̄ep p̄w m̄t tsó-ʔũn-tsó-n̄y ké.
 stay at P̄ã-X̄ep guard grave ancestor they.

4.2 Translation:

In the mountains of western Yúnnán there is one place. At the foot of the mountain is the M̄p̄ã river, at the top of the mountain there are forests, and in the middle of the mountain there is a village. The name people give to it is P̄ã X̄ep. Here is my village.

Our village is very beautiful and very rich, it is a place with much tea. From old times the ancestors have been living here, eating rice, working and building their village and houses.

The ancient ancestors had many stories, which they have told down to us. In the stories people have told, the ancient ancestors were living at a place very far away. There were big flatlands and there were also forests. They were able to eat and to sacrifice [to Buddha], and both men and livestock prospered.

Then there were people who were jealous of us. We made war with them, but their people were too many and surrounded our village and houses. We made war for a long time, but still did not defeat them.

Above our village there was a tree. After people started to make war, Buddha sent a spirit. He came each night to cut at that tree. Buddha said that if on some day this spirit had cut this tree and made it fall before dawn, then we would not win. Buddha told us to run fast then.

After that, the spirit cut at this tree, he cut a long time, but could not make it fall, because if the spirit did not cut it down completely during some night, the tree grew out into its original form as soon as daybreak came.

One day, in the middle of the night before cock-crow, the tree suddenly fell. All the people saw that this thing was not a good one, and told both old and young people to run to the east. They went for a very long time, came to Pã Xep and did not run any more.

Before this, Pã Xep was a place where the Va lived. When they saw us come, they moved. Earlier the Va might cut off people's heads, but they did not cut the heads of our people, because we lived in Pã Xep, and in the mountains of Pã Xep were the graves of their ancestors. Because it was we who lived in Pã Xep who guarded the graves of their ancestors.

5. Wordlist

In this wordlist, all U words known to me are entered in reverse alphabetical order. Besides the U words, all available words from other Angkuic languages are given if they have any similarity to the U word. In addition, possible sources for loanwords, most often related words in Tai, are given. If available, a form from Gedney's Tai Nüa is given, otherwise some other Tai form is used. Furthermore, Proto-Waic and Lamet forms are given (in some cases in spite of the fact that they are not necessarily cognate to the U word). For Lamet, words from the more conservative dialect ("Dialect A") in Lindell, Svantesson and Tayanin 1978 are cited, except in those cases where the other dialect ("Dialect B") has a long vowel and Dialect A a short vowel. Apparently, Dialect B has preserved Proto-Palaungic vowel length better than Dialect A. In some cases Lamet words from other sources (see below) are given. When Proto-Waic or Lamet cognates are not available, Parauk, Blang or Kammu forms are given for comparison.

The following abbreviations are used:

Tai languages:

- TN Tai Nüa (Gedney 1976)
- TNH Tai Nüa (Harris 1975)
- TND Déhóng Tai (Nüa) (Yù and Luó 1980)
- Lü Tai Lü (Yù and Luó 1980)
- Thai Standard Thai

U languages:

- UW Pèngpàn U (Shuāngjiāng Blang; Wáng and Chén 1982a, 1982b)
- UZ Pàngpǐn U (Shuāngjiāng Blang; Zhōu and Yán 1983)
- Pm Pou Ma (d'Orléans 1898)
- Pn P'u-man (Davies 1909)

Other Angkuic:

- Hu Hu (Svantesson forthc.a)
- Kk Khas Kon Keu (Lefèvre-Pontalis 1892)
- Ki Khas Kiorr (Lefèvre-Pontalis 1896)
- Ak Āng-kú (Scott 1900)
- Ml Mōng Lwe (Scott and Hardiman 1900)
- Am A Mōk (Scott and Hardiman 1900)
- M Mok (Diffloth 1982)
- MW Mok (Yā Āng Lǎwā; Wenk 1965)

Waic:

- PW Proto-Waic (Diffloth 1980)
 Pr Paràuk (Va; Yán et al. 1981; phonemic transcription and spelling (within <...>) given)
 Bl Blang, Bùlǎngshān dialect (own data)

Lamet (Rmèet):

- Lm Lamet (Lindell, Svantesson and Tayanin 1978, Dialect A)
 LmB Lamet (Lindell, Svantesson and Tayanin 1978, Dialect B)
 LmD Lamet (Diffloth 1982)
 LmM Khamet (Mitani 1965)
 LmL Lampang Lamet (Charoenma 1980)
 LmW Wiang Papao Lua (Charoenma 1980)

Kammuic:

- Km Kammu Yùan (own data)

5.1 U-English Wordlist

- ʔá two; ~ tshò: twenty; ~ tshò xe mò: twenty-one; ʔú ~ ʔí: two people -- Hu kaʔà, Am á, M ʔaa; PW *lʔar, Lm ʔlár
 saʔá sour -- Hu θaʔàw, MW sǎǎ; Lm sʔár
 fà magic; cí~: do magic
 fà thùǎ ~: shoulder bag -- TN vaa² "shoulder"; Pn p'a
 ɲkà to dance -- Ml ka
 khà fish -- Pn k'a; Ki kha, Ak hka, Ml ka; PW *kaʔ, LmM káoʔ
 là leaf (~ fá); ~ sì: tree leaf -- Pn hla; Hu láʔ, Ak, Ml, Am la, M laʔ; PW *hlaʔ, LmB láaʔ
 là ~ sì: grass -- Pn la-si
 lâ ná tho ~: suddenly
 lâ tea -- TNH laa³
 la ~ ʔasǎf: jealous
 salà leaf (in: súp ~: tobacco; cf. là)
 mà some; ~ mû: some (things); ~ mû ʔàn ʔâ: some are not good; ʔú ~ ʔí: some people
 mà and, with; ʔò ~ ʔât: I and he; ʔè cí nân ~ ké: we made war with them
 mâ field; ~ qhîf: dry field -- Hu mà, Ak, Ml ma, Am mé, MW mā; PW *ʔmar, Lm mār
 samà wind; ~ ʔât: storm; ~ fú: the wind blows -- Pn ma; Hu θamáʔ, Ak si má, Ml sa má, Am ka má, M simaʔ; PW *kmaʔ "sky", Lm ʔmáaʔ
 ná thick -- TN naa⁵
 ná ~ tho lâ: suddenly
 nà to (indirect object marker); ʔò cí ʔât ~: I explain to him; tè mî ~: give to you; tò ʔò ~: tell me

- nâ to eat, to drink; ~ *kháy*: eat (rice); ~ *ʔóm*: drink water -- Pn *nə*; PW **ni*? "to drink"
 na then; *nté mî lăf*, *ʔò ~ ʔò mî*: if you come, I'll wait for you
 sanà to comb; comb -- Hu *ngàt*, MW *năt*
 nâ ʔɔf ~: grandmother -- Pn *ya*; PW **ya*?, Lm *yàa*?
 na ~ *nòf*: outside
 nà skirt -- Ak, Ml *nya*, Am *nga*
 nâ to itch -- Hu *hă?*; LmM *hăa*?
 pà ~ *tî*: each other -- PW *(*bo*?)
 pa not yet
 mpà ~ *sì*: forest
 phé ~ *wɔ̃*: window -- TN *fəəʔ* vɔŋ?
 phâ to skin (animal), to bark (tree)
 qâ to make fire (~ *həw*)
 qhà soul
 nqhà to steal; ~ *ʔavít*: run away, flee -- Hu *mavă?*; PW **mra*?, Lm *ntrăa*?
 tà at; ~ *nnî*: here; ~ *sanĩ*: at noon; *ʔè ʔót ~ pəă ʔèp*: we live in Pă Xep -- Am *tə*, MW *tě*; Lm *tə?*, Km *təa*
 tâ to smear
 thà eight -- Pn *t'a*; Am *n'ta*; PW **snte*?, Lm *tát*?
 thâ old man (?); ~ *mô sâ*: hunter; ~ *qí*: spirit -- Pn *a-tə* "father"; Ki *tə* "grandfather", M *ʔə-thə* "father"; PW **tə?* "grandfather, old man", Lm *tăa?* "grandfather"
 tha ~ *vá*: from, since
 sathà tail; ~ *pachip*: bird's tail -- Hu *θathá?*, MW *sătă*; PW **sntə*?, Lm *ntát*?
 tshâ hundred (*m̃* ~) -- PW **ryah*
 vá *thə* ~: from, since
 vâ wide -- Pn *və*; Hu *văw*, Ak, Ml, Am *wə*, M *wəə*; PW **wah*, Lm *wàh*
 vâ Va (people) -- PW *(*r*-)*wə*?
 va to tell -- TN *vəə*! "to speak"
 ʔavâ door -- Pn *wə*; PW **r-wə*?
 ʔè we (pl.); *ʔip* ~: our village -- Hu *ʔé?*, Ml *é*, Am *yi*; PW **ʔE?*, Lm *ʔéé?*
 ʔe nominalizing particle: ~ *ʔă* (~): those which are good; ~ *ʔip* (~): those alive; ~ *sapò*: others
 fè left (side) -- Hu *vé?*; PW **-wə?*, LmB *wèé?*
 ké they (pl.) -- UZ *kviʔ*; Hu *ké?*; B1 *kè?*, Lm *kèe?*
 khè vulva -- Pr *cé?* <*jeix*>, Km *ké?*
 lè to take, to marry
 salè rain; *qí* ~: it rains -- Pm *lé*; Hu *salé?*, Ak *si le*, Ml *sə le*, Am *kə le*, MW *sălăt*; PW **hlə?*, LmB *slèé?*
 mè husband -- Ml *kəme*, Am *me*, MW *mă*; PW **rme?* "male", Lm *kmèé?*

- mè new -- Pn *u-hmui*; Hu *thamé?*, M *thamme?*, MW *thǎmǎ*; Lm *7máh*, Km *hmímè?*
- mê sugar (7óm ~) -- Kk *khmè*; PW **rm-me?*
- mmè axe -- Hu *mò*, Ak *mwi*, Ml *mui*, Am *niu*; PW **7mo/iy*, Lm *7míiy*, *mùuy*
- nè meat -- Hu *ngé?*, MW *nǎ*; PW **(?)ne?*
- ñè needle -- Ak *s'né*, Ml *si né*, Am *pai ngi*; PW **k-/pne?*
- ñê to hit (with fist), to beat; to kill, to slaughter; ~ *lís*: slaughter a pig
- pè (wild) goat -- TN *me³*; Pm *pe*, Pn *pie*; Ak *pé*, Am *a-pi*; PW **be?*, LmB *pà?*
- pê to vomit
- sapè clothes -- PW **(r(m)be?)*
- phé you (pl.) -- UZ *p'xi⁵¹*; Hu *phé?*; PW **pe?*, Lm *pèe?*
- sé charcoal -- Hu *khasét*; PW **ksɔs*, Lm *krsás*
- sê to geld -- Pr *séh <sieh>*, LmL *sáh*
- tè to give -- Pr *tó? <dox>*
- nté if; ~ *mî lǎf*, 7ò *na xò mî*: if you come, I'll wait for you
- thè earth -- UZ *t'ei⁵¹*, Pm *panthai*, Pn *t'ui*; Hu *kathé?*, Kk *kté*, Ki *étè*, Ak *kə té*, Ml *kə te*, Am *ka ti*, M *sathé?*, MW *sǎtē*; PW **kte?*, Lm *ktát?*
- vè thing
- xè to rise; ~ *hò*: go out; ~ *tsò*: to get up
- xè (same as preceding?) *tshò* ~ 7á: twelve -- Am *le*
- yê eldest'sister (7êf ~) -- Pr *yé? <yeix>*
- kè old (of people) -- TN *ke²*
- lè few
- mê who?, what?; any; *cín* ~: how?, why?; *mî mà* ~: who are you?; *səŋĩ* ~: what day?, any day; *təm* ~: where?; *xìp* ~: what village?; *yám* ~: when? -- PW **(mɔ?)*, Lm *mà?*
- nè that -- Lm *nà?*
- ne to tell
- nnê *tà* ~: there
- ñé dregs
- ñê small; young
- pê to win -- TN *pe⁶*; Bl *pé?*, Pr *pè? <bēix>*, Lm *péch*
- tè arrow -- Pr *tè <dēi>*, Lm *tèey*
- tê *súp* ~: tobacco
- yé fowl; ~ *fóf*: the cock crows; cock-crow, early in the morning; ~ *khút*: cock; ~ *nây*: hen; ~ *sê*: capon -- Pm *ia*, Pn *ya*; Hu *7iɿ*, Kk *ya*, Ki *èò*, Ak *i-au*, Ml *e*, Am *ya*, M *7εε*, MW *ē*; PW **7er*, Lm *7éer*
- 7à to pull -- Am *yô*
- 7â good
- fá leaf (*là* ~); ~ *sì*: tree leaf -- TN *fɿ⁵*
- kə much
- khá to cook; ~ *kháy*: cook food -- PW **kɿs*

- mà to be -- Km *màh*
 mpá reason
 mphà to fly -- UZ *p'vr⁵¹*, Pn *p'wə*; Hu *phíx*, M *phəə*; PW **pvr*, Lm *mpír*
 sâ *mò ~*: to hunt
 sâ *nún ~*: happy
 tá to run
 tsà to know -- Pn *chu*
 xè song
 xè to play -- Lm *plèh*
 yé to run
 ʔí others, people; classifier for people; ʔú *mè ~*: one person -- Hu ʔíʔ, Kí, Ak, Ml, Am, MW *i*; LmB ʔíʔ
 ʔí ~ ʔò: violin
 cí to do, to make; ~ *fà*: do magic; ~ *nàn*: make war -- Ak *kyi*, Ml *hsi*, Am *kyi*, MW *či*; PW **g-/jiʔ*
 cî to point; to explain -- TN *cié*; Pr *cì <jī>*
 nchí head louse -- Hu *nsíʔ*; PW **siʔ*, Lm *síʔ*
 kí pinetree (*sì ~*) -- PW **ngiʔ*
 kí to count -- Lm *krìs*
 ʔəkhì day after tomorrow -- B1 *skúʔ*
 lì penis -- UW *li⁵¹*; M ʔə-*li(i)*; PW **kliʔ*, Km *tléʔ*
 mì (body) louse -- LmB *mplèʔ*
 mí rich -- TND *mi²*
 mî you (sg.) -- Pm *ni*, Pn *mi*; Hu *méʔ*, Ak, Ml *mi*, Am *mu*, MW *mūi*; PW **meʔ*, Lm *mìiʔ*
 ní this; ~ *vè*: this thing
 ʔənì this
 nnî this; *tà ~*: here
 ʔì ashes
 senj day, noon; *ń ~*: today; *tà ~*: at noon -- Pm *seugni*, Pn *nyi*; Hu *ńíʔ*, Kk *ni*, Kí *ngi*, Ml *nyi*, Am *ngi*, M *ńiʔ*, MW *ńi*; PW **sneʔ*, Lm *sñiʔ*
 phì to sweep; ~ *káã*: sweep the house -- PW **pes*
 qí heaven; nature, wilderness; ~ *salè*: it rains -- Pm *pri* "mountain", Hu *púíʔ*, Ak *pri*, Ml *pwi*, Am *pri*; PW **breʔ*, LmB *prìiʔ*
 qí spirit (*thà ~*) -- Hu *kúíʔ*, Ak *plit*, Am *pa kri*, MW *phiki*
 qí pupa -- MW *pi* "worm"
 nqhi pestle -- UW *gri⁵¹*; Hu *ŋúíʔ*; PW **(ŋriʔ)*, LmB *ntróoʔ*
 sí rope, string; ~ *ŋkú*: leather rope; ~ *táy*: thread; ~ *thép*: rope -- Hu *pasíʔ*, Ak *pu hsi*, Ml *pi si*, Am *pa si*, MW *pāsi*, *pāchi*; Lm *plsíʔ*

- sì wood, tree (*həp* ~); stick; ~ *sətəw*: walking-stick -- Pm *si*, Pn *si* "stick", *zie* "tree"; Hu *θé?*, Ki *teseu*, Ak *kisu*, Ml *kə hsü*, Am *su*, *hsu*, M *se?* "stick", MW *sě*; PW **khi?* "wood", **kho?* "tree", LmB *khée?*
- sì *là* ~: grass
- sì *thú* ~: old times
- tì nose -- Pn *mu-ti*; Hu *katé?*, Ki *keteu*, Ak *kattú*, Ml *ka tú*, Am *ka tu*, M *ktə?*, MW *kəttə*
- tî oneself (reflexive pronoun); *qít* ~: scratch oneself; *sùp* ~: bathe -- Pr *tí?* <*dix*>, Lm *tii?*
- thí hand, arm -- Pm *ti*, Pn *ch'í*; Hu *thí?*, Kk, Ki *ti*, Ak *hti*, *ti*, Ml, Am *ti*, MW *ti*, *thi*, *phi*; PW **te?*, Lm *tí?*
- thí ~ *thà qí*: spirit
- thì to beat, to play; ~ *?í ?ò*: play violin; ~ *sathùs*: play drum; ~ *tíā*: play lute -- Thai *tii*
- ʔathî to sneeze
- ʔí bear -- Hu *ʔəxət*; PW **kris*, Lm *krís*
- ʔʔí fruit -- Pn *p'í*; Hu *phlé?*, M *phe?*; PW **pli?*, Lm *plée?*
- sì straight -- TN *swl*
- tsì name -- TN *cwl*; Ak *sü*, Ml *hsü*; LmM *cùw*
- ʔavî to throw; ~ *phəw*: throw away
- ʔò I; *tsì* ~: my name -- Pm, Pn *əo*; Hu *ʔó?*, Ak *əw*, Ml *əw* "we", Am *əw*, M *ʔə?*, MW *ǝ*; PW **ʔi?*, Lm *ʔó?*
- ʔə face -- MW *q* "cheek"
- hò to go -- Pn *zəo*; Hu *ʔi*, PW **hʔl*, Lm *hí*
- ʔkó ear (of grain); ~ *sáŋ*: ear of rice
- mò one (cf. *mə*) -- UZ *muʔl*; Hu *ʔamò*, Am *mo*, MW *mǝ*; Lm *mòoh*
- mò second sister (*ʔéŋ* ~)
- mo round; *ntshə* ~: moon -- Ak, Ml, Am *mun*; PW **ʔ(m)ʔl/r*, Lm *mòn*
- samò stone -- Pm *simou*, Pn *mung*; Hu *səmó?*, Kk *chémo*, Ki *səmoc*, Ak *s'mo*, Ml *se mó*, Am *kamu*; M *smo?*, MW *sǎmo*; PW **smo?*
- samò fragrant
- pó evening, night; *tà* ~: in the evening -- Pm *pour*, Pn *a-pu*; Am *pwe*, M *səpoo*, MW *pǝ*; PW **bor*, Lm *pòor*
- sapò other -- LmB *rpò?*
- phó barking deer -- Hu *phòt* "sambar deer", Ak, Ml *pwe* "sambar deer", Am *poë* "sambar deer", MW *phǝt* "deer"; PW **pos*, Lm *póos*
- qó to sew -- Hu *klùx*
- qó wine -- UZ *p'lyuʔl*; PW **play*
- sò dog; ~ *qí*: fox -- Pm *tcho*, Pn *shaw*; Hu *só?*, Kk *chio*, Ak *saw*, Ml *hsaw*, Am *so*, M *sə?*, MW *sǝ*; PW **sə?*, Lm *só?*
- tó body; animal; ~ *khùt*: male animal; ~ *qí*: wild animal; ~ *sət*: animal -- TN *to!*; UZ *toʔl* "classifier for animals"; Ak, Ml, Am *to* "classifier for animals", MW *tǝ*; Lm *táo?*
- nthò six -- Pn *t'ao*; Am *tall*, M *pathəw*; Lm *tóal*

- tsó generation; ~ ʔǔn ~ nǎy: ancestors; ~ ʔǔn mà nǎy: ancestors -- Thai *chǎa*
- tsó to sell
- tshò ten; ~ ʔe ʔá: twelve; ~ ʔe mò: eleven -- Pn *ch'ao*; Am *n'kyu*; PW *kol, Lm *kéel*
- patshó wing
- ʔò clothes -- TN *xo⁴* "things"; PW *brɿʔ
- ʔò to wait for
- yò to see; ~ ʔâ: be happy -- Pn *yow*; PW *yoʔ
- yò to get, to manage; ~ tî: get
- ʔò ʔí ~: violin
- ʔò (perfective?) particle (cf. *yò*); *ní vè pòt* ~: this thing was broken; *qí salè* ~: it has started to rain; *sapè ʔìp* ~: the clothes have become old
- hò to trace
- hò to hunt (game) (~ *tó qí*) -- MW *hə*
- kò to begin -- LmB *kóɕh*
- salò to flow; to roll (down a hill)
- mò ~ sâ: to hunt; *thà* ~ sâ: hunter
- ʔamò banana -- PW *rmɯs
- pó to help
- pò fat (adj.)
- qò headman of village (*thà* ~)
- só bee -- MW *kǎsǎi*; PW *pher/1
- tò to talk, to tell; ~ ʔapǎɿ: to talk; ~ ʔapùm: tell a story -- Km *trɿɕh*
- thò sing alternating song (~ ʔà)
- thò *ná* ~ *lâ*: suddenly
- tsó ant -- MW *čət*
- tsò to stand -- Pn *nchi*
- tsò to hit (target etc.); *khát* ~ tî: catch a cold; *phèt* ~: shoot and hit -- TND *tsoʔ*
- ntsho moon (~ *mo*) -- Pm *nikia*, Pn *ch'a-pa*; Ki *tchèò*, Ak *ché*, Am *n'kya*
- ʔò right, correct
- yò (perfective?) particle (cf. ʔò); ʔàn *yá* ~: not run any more
- yô root; ~ sî: tree root
- yô to carry -- Am *yaw* "to lift"
- ʔú person, human being; ~ *khá kháy*: cook -- Pn *u*; Ak, Ml, Am *u* "father", M ʔa-ʔuu
- ʔù to speak, to sing; ~ ʔapǎɿ: talk; ~ ʔà: sing a song -- Km ʔùu
- fú to blow (of the wind)
- hú male; ʔêɿ ~: elder brother -- Kk *hu*, Ak *hu*
- kú in, at; ~ *nâw*: inside; ~ *thêɿ*: between, in the middle; ~ *thêɿ sém*: midnight
- ku also; *mí* ~ *mí*: very rich

- ɲkú skin, hide -- Ak, Ml *pong ku*, Am *ang gu*; LmB *ɲkùu?*
 khù yesterday -- Hu *sɲkhó?*, MW *uñkhō*; PW *N-ko?
 ɲkhù rice grain -- Pn *'n-k'u*; Hu *ɲkhó?*, Ki *ounkho*, Ak *n'ko*, Ml *un-ko*,
 Am *n'ku*, M *kho?*; PW *ɲkko?
 mû mà ~: some (things)
 pú breast (of woman) -- Ak, Ml *pu*; PW *bɤ?, Lm *mpùu?*
 pù younger sibling; ʔɛɛ ~: sibling -- PW *bɤ?
 ʔaphú dung
 qú salt (ʔóm ~) -- Pm *plou*; Hu *palú?*, Kk *klou*, Ki *plou*, Ak, Ml *plu*,
 Am *ru*, MW *pu*; PW *gis, Lm *plùu?*
 qú deep -- UW, UZ *gru⁵¹*; MW *ku*; PW *ʔrɪ?, LmW *cɥu?*, Km *crù?*
 qú to move
 ɲqhù to walk; ~ *mmòɛ*: walk
 sú sick, hurt; pain, disease; *khóy* ~: be ill -- Pn *shu*; Ak, Ml *su*, Am
hsu, M *su?*, MW *su*; PW *sɪ?, Lm *sú?*
 tû belly, stomach -- Pn *tu*; Hu *katúl*, Ak *tu kún*, Ml *kutú*, Am *ka tú*,
 M *katuu*, MW *khǎtu*; PW *kɔɻl, Lm *ktɪl*
 tu then, just
 ntû to fall -- Pn *tia*; PW *ndih
 thú vegetables -- MW *thu*; PW *ti?, LmD *túu?*
 thú ~ *sì*: old times
 nthú hole -- PW *knti?, Lm *ntú?*
 sathú to wash; ~ *χò*: wash clothes -- Pr *sntáɪ?* <*si ndaex*>
 ʔáɛ to swell -- Hu *phaʔát*; PW *ʔos, Lm ʔés
 ʔǎɛ bow, crossbow -- Hu ʔàk, Ki *ak*, Ak, Ml, Am *āk*; PW *ʔak, LmL
ʔáak
 kǎɛ to bite -- Hu *kák*, M *kak*; PW *gɔk, Lm *kàk*
 lǎɛ to come -- Pn *la*
 làɛ black -- UZ *lak³³*, Pn *la*; Ak, Ml *lang*, Am *a-lang*, M *lan*, MW *lañ*;
 PW *lɔŋ, Lm *làn*
 ʔalǎɛ to change, to exchange -- TN *lɛk¹*; PW *(*l*)ɔh, Lm *lɛk*
 mǎɛ ~ *tsɔɛ*: orange -- TN *maak²* "fruit"
 sanǎɛ blood vessel -- PW *snak
 ɲǎɛ to laugh -- Pn *hnia*; Hu *ɲǎ̀t*, M *nat*, MW *yak*; PW *kɲas, Lm
kɲàas
 ɲǎɛ *nây* ~: daughter-in-law
 ʔanǎɛ iron -- Pm *angac*, Pn *nga*; Hu *kanǎn*, Ak *ka ngang*, Ml *ku ngǎng*,
 Am *se ngang*, M *lanan*, MW *lǎñǎñ*; PW *ɲŋŋ, Lm *ɲǎn*
 pǎɛ bright, light; qí ~: dawn -- Ak *hpai*, Ml, Am *pai*; LmM *pàh*
 ʔapǎɛ speech -- Pn *hnin-pa* "speak"; PW *bɔŋ "speak"
 qhǎɛ buffalo -- UW *thrak⁵¹*, Pm *trac*, Pn *tɕa*; Hu *thǎ̀k*, Kk *trac*, Ki
khrac, Ak *kāk*, Ml *tāk*, Am *krāk*, MW *khā*; PW *krak, Lm *tráak*
 ʔaqhǎɛ lightning; qí ~: lightning flashes -- Ak, Ml *klük*, Am *pə lek*, Lm
krsáas
 ɲqhǎɛ horse -- Pm *bra*; Hu *maǎ́n*, Kk *mgagne*, Am *m'lang*, MW *mañ*;
 PW *mrɔŋ, Lm *mràn*

- sáŋ seed, kernel -- Pr sók <souŋ>
 sáŋ rice (in the husk), paddy -- Hu *thák*, Kk *sak*, Am *sāk*
 sàŋ knife; ~ *têp*: machete -- Pm *sac*, Pn *sə*
 sàŋ bitter -- Hu *sán*; PW **sɔŋ*, Lm *cán*
 saŋ to wash; ~ *tóŋ*: wash dishes -- TN *sakʰ*; PW **phak*, Lm *pháak*
 ʔasáŋ heart -- Ak *ök*
 táŋ kòn ~: how many?
 tâŋ back (of person) -- Pn *an-tai*
 ʔatáŋ palm of hand (~ *thí*), sole of foot (~ *kíā*) -- Hu *phiták*; PW **rndak*, Lm *plták*
 ntáŋ what?
 ntháŋ tongue -- Pn *t'a*; Hu *nthák*, Kk *təak*, Ak, Ml *tāk*, Am *pāk*, M *thaak*; PW **k-l/n-tak*, Lm *plták*
 tsáŋ to dig
 ntsháŋ joint (of body)
 yáŋ sambar deer -- Pm *iak*; PW **cak*, Lm *kyàak*
 ʔêŋ elder sibling; ~ *hú*: elder brother; ~ *pù*: sibling -- PW **ʔek* "elder brother", Lm *ʔéek*
 lèŋ to buy -- TN *lekʰ* "to exchange"; UZ *liakʰ*; Pr *lìak* <liag>, Lm *leek* "to exchange"
 mèŋ quick; ʔavít *tí* ~: run quickly
 nèŋ leg; ~ ʔát: thigh -- Ak *puyāŋ*, Ml *pu nyang*, Am *nyang*
 thèŋ middle; *kú* ~: in the middle; *nāw* ~: in the middle -- Lm *ntíʔ*
 khiŋ head; ~ *pôm*: top of a mountain; -- UZ *k'ikʰ*³⁵, Pn *ch'i*; Ki *kigne*, Ak, Ml *ching*, Am *kung*, M *khin*, MW *khin*; PW **ken*, Lm *kín*
 líŋ pig -- UZ *likʰ*³¹, Pm, Pn *li*; Hu *lèk*, Kk *lék*, Ki *lek*, M *leek*, MW *lēk*; PW **lik*, LmB *lìik*
 qhìŋ sky -- Pm *plip*, Pn *p'i*; Lm *mplín*
 qhĩŋ chest, ribs -- Hu *phùèk*; PW **prok*, Lm *préek*
 sĩŋ full (with food) -- PW **sak*, Lm *sáak*
 nthĩŋ wall -- PW *(*ntin*)
 víŋ work; *cí* ~: to work -- TN *vekʰ*; MW *wēk*; Lm *wèek*
 ncĩŋ dirty -- Lm *kcòʔ*
 kĩŋ horn -- UW *krəkʰ*⁵⁵; PW **ʔrɔŋ*, Lm *krìn*
 ʔalĩŋ to boil -- Pr *lók* <loug>; LmB *rlìk*
 mìŋ ~ ~: Měng Měng (administrative center of Shuāngjiāng county) -- TN *mɔŋ*⁴ "town"; Pr *màn* *màn* <mēng mēng>
 nĩŋ jungle -- PW *(*ʔnɔŋ*)
 phĩŋ to break (tr., itr.) -- PW **m-pɔk*, Lm *pík*
 sĩŋ bedbug -- Hu *thán*; Lm *hín*
 thĩŋ ~ ʔasém: to breathe
 xĩŋ bamboo -- Hu *thín*, Ml *kung*, Am *krong*; Lm *rín*, Km *rháan*
 ʔĩŋ grandmother; ~ *nâ*: grandmother; ~ *tsây*: grandfather
 ʔóŋ to crow
 ŋkhĩŋ neck; *nthú* ~: throat -- MW *kɪk*; PW **ŋək*, Lm *krkʰ*
 lóŋ enough, satisfied

- mmòŋ road -- Pm *ngroang*
 nòŋ outside; *hǎŋ na* ~: outside -- TN *nok¹*; Am *nawk* "in front"
 ʔaŋŋŋ to nod; ~ *khìŋ*: nod one's head
 sǎŋ elbow -- TN *sok²*
 tǎŋ tray -- PW **dok*
 tǎŋ to sting
 ntǎŋ to rise
 tsǎŋ *mǎŋ* ~: orange
 ntshǎŋ brain (~ *khìŋ*) -- Hu *nthòk* "head", Kk *thok* "head"; Lm *sntók*
 saxǎŋ bark (~ *sì*) -- Hu *θaklǎŋ*?
 yǎŋ weak, sickly; worn out, broken
 kùŋ moth
 múŋ feather (*súŋ* ~)
 muŋ *mún* ~: dust
 núŋ breast, chest -- Pr *nǎuk* <*naog*>
 pùŋ to meet -- Pr *smpùk* <*si nbūg*>
 mpǔŋ to prick, to pierce -- PW **(mbok)*
 phùŋ to blow (of person); ~ *síaw*: play flute -- PW **piŋ*, Lm *pún*
 qùŋ *ʔáy* ~: cloud
 súŋ hair; ~ *khìŋ*: hair on head; ~ *múŋ*: feather -- Pn *su*; Hu *θúk*, Kk *souk*, Ak (*kə*) *hsuk*, Ml, Am, M, MW *suk*; PW **hik*, Lm *khúk*
 sǔŋ ear -- Pm *ioc*, Pn *lǎ-shu*; Hu *nəsòk*, Kk *lichauk*, Ak *chok*, Ml, Am *lǎ sok*, M *kəsok*, MW *kǎsòk*; PW **hyok*, Lm *yók*
 thús bridge -- Lm *rŋtókŋ*
 sathùŋ drum -- LmM *sàntún*
 xùŋ to fall -- Am *kru* "to drop"; Km *k'ruk*
 ʔaʔǎǎ rock -- PW **(rʔaŋ)*, Lm *rʔǎaŋ*
 paʔǎǎ to lie (down)
 saʔǎǎ bone; ~ *qhǎŋ*: ribs -- Hu *kəʔàn*, Ak, Ml, Am *kə-ang*, MW *sǎān*; PW **sʔaŋ*, Lm *sŋʔǎaŋ*
 fǎǎ to throw
 kǎǎ house, home, room -- UW, UZ *kaŋ⁵¹*, Pm *kang*, Pn *kan*; Hu *kàn*, Kk, Ki *kagne*, Ak, Ml, Am *kāng*, M *kə-kaan*; PW **ŋgan*, LmD *kàaŋ*
 ŋkǎǎ rat -- PW **gaŋ*, Lm *ŋkàaŋ*
 làǎ cold (of water); *ʔóm* ~: cold water -- PW **hlŋŋ*
 pàǎ ~ *χèp*: Pǎ Xep (Bāngxié) village
 mphǎǎ place
 sǎǎ can, be able -- TND *tʂa:ŋ⁶*
 tǎǎ nominalizing particle: ~ *cí*: work; ~ *ʔǎ*: good thing
 ntǎǎ to ford, to wade (~ *ʔóm*) -- PW **(daŋ)*
 vǎǎ thin -- TN *vaŋ¹*
 savǎǎ to ask -- Pn *van*; Hu *θavàn*
 xǎǎ thorn -- Lm *rǎaŋ*
 xǎǎ shadow
 xǎǎ flower; ~ *ʔamò*: banana flower; ~ *fǎ*: leaf bud -- Hu *vàn*; Km *ràaŋ*

- xâã morning; tà ~: in the morning -- PW *raŋ "light, clear"
 ɲxâã tomorrow -- Hu pavan
 saxâã shoulder -- Hu saplàn; Lm smplàn
 ʔêã strong
 fêã lip (~ ntút)
 pêã third sister (ʔêŋ ~)
 mpêã name of a river (ʔóm ~)
 xêã strength; khóy ~: strong -- TND hɛŋ²; Ak keng, Ml heng; PW *rɛŋ
 kíã foot; ~ pôm: foot of the mountain -- Pm tiang, Pn chin; Hu cèn, Kk tiègne, Ki khieu, Am chung, M ceen, MW ċěñ; PW *jon, Lm cèŋ
 kìã tripod -- TN cɛŋ⁴
 líã high, tall -- Pn hlōng; Hu lèn, Ak lüng, Ml, Am lung, MW lēñ; PW *hlon, Lm léen
 nĩã to listen; ʔò ~ ʔàt tò ʔapǎŋ: I listen to him talking
 nnĩã to lean
 tíã lute -- TND tin⁵; B1 tín, Pr tín <ding>
 rĩã rice plant -- TND faŋ²
 híã long (time) -- TN hɿŋ⁵; PW *ʔlin, Lm léen
 lĩã yellow -- TN lɿŋ⁵; Ak, Ml löng; B1 hlán, Lm láan
 píã basket (big) -- Lü bun¹
 pĩã mud -- PW *(mbin), Km pùn
 siã Mekong (ʔóm ~)
 tĩã pond -- Pr ntùn <ndũŋ>, Lm tín
 satĩã to snore (~ tĩ) -- Lm stĩr
 xĩã warm -- Am rōn
 sayĩã light (in weight) -- Pn ing; M kayaŋ, MW kǎyōñ; PW *(c)yoŋ, LmB yèŋ
 ʔôã many
 hóã direction; ~ maw: above, on top of; ~ ɲə nòŋ: outside; ~ ɲây sanĩ kǎt: east; ~ ɲây sanĩ xút: west; ~ ɲxúp: down(ward) -- MW ũñlǎñ; Lm lon
 kôã ~ háw: sky -- Hu kaŋ xáw, Am kāŋ rao; PW *raw
 kôã bottle -- Lü kɔŋ³; Lm kóŋ
 khôã tame animal, livestock
 lóã boat -- UW ʔluan⁵¹; Am la-ōŋ; Lm slòŋ
 lóã to go down; ~ hò: go down; ~ láŋ: come down -- TN lon⁴
 nốã lake -- TNH nɔŋ⁵; B1 hnón, Pr hnón <hnong>
 ɲốã sweet -- Ak t'ngān, Ml sa nāŋ, Am nyum, MW ngāŋ; PW *nom
 pốã worm; ~ súŋ: caterpillar
 mpốã to build
 phốã away; ʔavf ~: throw away; pê ~: vomit
 qốã (bamboo) tube; ~ ʔóm mê: sugar cane
 patshốã fat, grease
 wốã phố ~: window

- xjã basket (small) -- TNH xɔŋ³ "fish basket"
 yjã beautiful -- Pn *juan* "good"; Hu *yɔŋ* "good", Am *yawng* "good", M *yɔŋ*, MW *yɔŋ*
 hũã eagle -- TND *hɔŋ*⁴
 kũã bent, crooked -- Thai *khóŋ*
 kuã already, as soon as
 qũã knee -- Hu *kòŋ*, MW *sakɔŋ*; PW **sɔŋ*, Lm *kròŋ*
 tũã flatlands (in river valley) -- TND *tonɔ*⁶
 thùã bag; ~ *fà*: shoulder bag -- Thai *thũŋ*; Pn *t'ong*; Lm *thón*
 khàm to fight (of animals), to butt
 ɲkhám husk, bran -- PW **kam*, Lm *ɲkám*
 làm trunk, log (~ *sì*) ; sàt ~: five logs -- TN *lam*⁴
 sanàm blood -- Hu *ngàm*, Ak *si-nām*, Ml *se nām*, Am *nām*, MW *nām*; PW **hnam*, Lm *nám*
 sâm to tattoo; ~ *tó tɪ*: tattoo one's body -- TNH *sam*⁴
 tàm ~ *mê*: where? (Cf. *tà*)
 thám crab -- PW **ktam*, Lm *ktám*
 thâm cave -- TN *tham*³; Lm *thám*
 tham from, since; ~ *thú sì*: since old times
 yám ~ *mê*: when? -- TN *yaam*⁴ "season"; Ak *yām*
 yâm to cry, to weep -- Pn *yang*; Hu *yàm*, M *naam*; PW **yam*, Lm *yám*
 sém night, evening -- Ki *sune*, Ak *sum*, MW *sēŋ*; PW **som*, Lm *séem*
 ʔasém breath; *thɪf* ~: to breathe -- Ak *pu sum* "soul"; Bl *mphúm* "to breathe", Pr *mphóm* <*npom*>, Lm *phéem*
 kêm to hold (in one's hand)
 mêm cat
 làm smooth
 sâm hungry (~ *vè*)
 ʔóm water, liquid, river; ~ *ʔàt*: river; ~ *ɲóã sɔ*: honey -- UZ *ʔom*⁵¹, Pm *om*, Pn *ong*, *ung*; Hu *ʔòm*, Kk, Ki *ôme*, Ak, Ml, Am *om*, M *ʔoom*, MW *ôm*; PW **rʔom*, Lm *ʔóm*
 nthóm to burn
 xòm shade -- TN *hom*¹
 pòm fourth sister (*ʔêf* ~)
 pôm mountain
 tsóm low -- Pn *t'ien*; Hu *tèn*, Ak, Ml *ten* "short", Am *tem* "short"; PW **dɛm*, LmM *tɛɛm*
 tsôm to sit
 tshóm liver -- UW *dhuam*⁵¹; Hu *kathòm*, MW *kăthəm*; PW **ktɔm*, LmW *ntɔɔm*
 ʔapùm story -- TND *aɔ pum*⁵
 ʔàn not; ~ *ʔâ*: not good; ~ *hò*: not go; ~ *mà*: is not -- Bl *ʔún*, PW **(ʔaŋ)*
 ʔăn wasp (*nây* ~) -- Hu *kəʔàŋ*; PW **ʔaŋ*, Lm *kʔáaŋ*
 mán ratten

- nân *yîn ~: Yúnnán*
 nân war; *cí ~: make war -- PW *(nəŋ)*
 pân white -- Pn *pən*; Hu *pàn*, Am *a-paing*, M *pən*; PW **bən*, Lm *pàən*
 tən to sacrifice (to Buddha)
 thán to weave -- Hu *thàn*, MW *thān*; PW **tən*, Lm *táən*
 cèn sheep -- TN *cən*¹
 khen most (in comparisons); ~ ?ôã: most
 sèn to split
 ten to give, to let, to cause
 saŋên green -- Hu *tsaŋəl* "blue"; PW **sŋəl*, Lm *sŋàəl*
 fân child (~ ?ú), young (of animal); ~ *kíã*: little toe; ~ *khút*: man;
 ~ ?óm: brook; ~ *phət*: woman; ~ *sàf*: small knife; ~ *thí*: little
 finger
 kán place; *m̃ ~: one place*
 lân stupid; ?ú ~: fool
 mên day before yesterday (*saŋĩ ~*)
 cín ~ *mê*: how?, why? (Cf. *cí*)
 pín to get, to harvest
 pìn to forget -- Pr *pì <bĩ>*, Bl *pìl*
 sìn mosquito; fly
 yîn ~ *nân*: Yúnnán
 ŋin silver -- TN *ŋɪn*⁴
 vìn prosperous
 ?apón roof (~ *káã*)
 phón four -- Pn *p'un*; Hu *?aphòn*, Am *pun*, M *phoon*; PW **pon*, Lm *póon*
 kòn ~ *tát*: how many; ?àn ~: no matter
 món son-in-law
 mòn blue -- Thai *mòn* "grey"; Ak *mun* "grey"
 patsǎn to spin (round) -- TND *tsɔn*⁵
 ?ũn father; ~ *thí*: index finger -- Pm *ounia*; Hu *?a?úŋ*, Kk *ougnè*, Ki
ouigne; PW **kɪŋ*, Lm *?úuŋ*
 ?akùn finger (~ *thí*), toe (~ *kíã*); ~ *thí kú thèŋ*: middle finger -- Lm
plkùul
 mún ~ *muŋ*: dust -- TND *moŋ⁶ mot⁸*; Lm *?mí*
 mún silver, money -- Pm *moul*, Pn *hmwa*; Hu *mmúl*, Ak *kə múl*, Ml
kə mún, Am *mwi*, M *muu*, MW *mū*; PW **kmil*, Lm *kmùul*
 nún to love, to like; happy; ~ *sə*: happy; ~ ~ *sə sə*: very happy
 mphùn seven -- Pn *p'ua*; Am *n'pwi*; LmB *púul*
 ŋhùn to tie
 khap jaw -- Hu *khàp*, Ak, Ml, Am *kāp*; PW **kap*, Lm *káap*
 saqǎp to catch (sth)
 nthàp egg -- Pn *t'ai*; Hu *nthám*, Kk *tam*, M *tham*, MW *tham*; PW **ktom*,
 Lm *ntám*
 xàp right (side) -- Pm *sap*; Hu *?aθém*; Lm *hám*
 xàp to borrow; ?ò ~ *mùn mĩ*: I borrow your money

- yàp to die -- Pn *yà*; Hu *yám*, Ak, Ml *yǎm*, Am *yem*, M *yem*, MW *yīom*; PW **yǝm*, Lm *yàm*
 khép to swallow -- B1 *χíp*, Pr *hríp* <*hreeb*> "to drink"
 tềp to cut
 thếp *sí* ~: rope
 xếp see: *pàǎ* ~
 kếp even
 nập thunder; *qí* ~: it thunders -- Am *pə nom*; PW **(rnyǝm)*, LmM *kàlnùum*
 sanập year -- MW *nam*; Hu *ngím*, PW **nyǝm*, Lm *nìm*
 nập classifier for trees; ~ *sì*: tree; ~ *sì sàt* ~: five trees -- PW **(?)nyǝm* "plant"
 sập rotten -- PW **sʔyǝm*
 tềp barn (*kǎǎ* ~)
 ʔíp alive -- Hu *ʔím*, Ki *im*; PW **ʔem*, LmB *ʔím*
 nchíp nail, claw; ~ *thí*: finger nail -- UW *dʒhip*⁵⁵; Hu *nθím*; PW **hmem/mhem*, B1 *nhím*, Lm *lmhím*
 pachíp bird -- UZ *tʃím*⁵¹, Pn *si*; Hu *ʔasím*, Kk *chim*, Ki *sim*, M *ʔa-sim*, MW *kǎsǝm*, *sim*; PW **sem*, LmB *sím*
 thíp nine -- Pn *tʔi*; Am *nʔum*; PW **s(n)tem*, Lm *tím*
 ʔíp village; ~ *mè* ~: one village -- UW *rip*⁵⁵, Pn *zi*; Hu *ʔím*, Ki *khim*, Ak *him*, Ml *kim*, Am *rum*
 ʔíp old (of things) -- UW *phrip*⁵⁵, Pn *pʔi*; Hu *phúím*, M *phim*; PW **prem*, Lm *prím*
 ʔíp to run after
 saphốp lung -- Hu *θmphúp*
 tếp to answer -- Lũ *tɔp*⁹; B1 *tóp*, Lm *tɔɔp*
 lúp to enter
 lúp to piss (~ *tĩ*); piss (*ʔóm* ~) -- Hu *núm*, MW *yum*; PW **(?)nim*, Lm *nùum*
 sanúp navel
 súp tobacco (~ *salà*, ~ *tê*), cigarette; *ntshǒt* ~: smoke tobacco; -- TN *sup*⁵; Pm *soup*; Pr *súp* <*sūb*>
 súp to wash, to bathe (~ *tĩ*); ~ *khì* ~: wash one's hair -- Hu *θúm*, M *çum*, MW *sũm*; PW **him*, Lm *húum*
 nchúp under -- Hu *tɥúm*; PW **(knrim)*, Lm *ntrùum*
 ʔàt big; very, much; *pòt* ~: very short; ʔùu ~: smell much -- Pn *up*; Ki *ak* "much", Am *on*, M *ʔɔn*, MW *ɔn*; B1 *hón*
 kát hot -- MW *kət* "to burn"; PW **koc*
 nkát footprint (~ *kíǎ*)
 khát cold (weather); to freeze; ~ *tsò tĩ*: catch a cold -- TN *kat*²; UZ *kʔat*³¹, Pn *kʔə*; Hu *khát* "sick", Kk *khət*, Am *kyet*, M, MW *khət*; PW **kət*, LmB *kát*
 lất to fear -- MW *lāt*; PW **hlat*, Lm *láat*
 lất before; ~ *qí pǎ* ~: before dawn

- nát gun -- TN *naat*¹; UZ *nat*³³; Hu *θanàt*, Kk *senate* "bow"; PW **snat*, Lm *snàat*
- sàt five -- Pn *sə*; Hu *pəθán*, Am (*pə*) *hsen*, M *pasan*; PW **phən*, Lm *phán*
- sàt tó ~: animal -- Thai *sàt*; Pr *sát* <*səθ*>, LmB *sát*
- sathàt old (person) -- Pn *t'ə*; Hu *θathán*, Am *tən*, MW *sātān*
- ntshăt sand -- Pn *nts'a*; Hu *nθàc*; PW *(*hmac*), Lm *máac*
- fèt flea -- Hu *θəkwín*, Ak *si kweng*, Ml *s'kwen*, Am *s'koin*
- ŋkhèt tooth -- Pn *an-č'ei*; Hu *khín*, Kk *khègne*, Ak *kyəing*, Ml *kain*, Am *kaing*, M *kheŋ*, MW *khəŋ*; Lm *kén*
- samèt star; ~ *mphə*: meteor -- Pn *mō*; Hu *mén*, Kk *meugne*, Ki *khemeng*, Ak *sə mēn*, Ml *sə min*, Am *ə moin*, M *sinmeŋ*, MW *sāmān*; PW **sʔmɤŋ*, Lm *krmìn*
- saŋét rank (smell)
- mpét to spit (~ *ʔóm páy*) -- Hu *pét*; Pr *mpàc* <*nbāig*>, Lm *pəc*
- phèt to shoot -- Hu *phín*, MW *phōn*; PW **pɤŋ*, Lm *pín*
- sét to stab, to pierce -- LmW *sét*
- sèt snake -- Hu *pəθén*, Kk *pseugné*, Ki *peseng*, MW (*pō*) *sōm*; PW **sʔɤŋ*, Lm *phín*
- vét to cut -- Bl *vùc*, Pr *vòk* <*vog*>
- yèt bad, broken, worn out
- kèt heavy -- Pn *chie*; Hu *ncén*, M *kəcən*, MW *k(ă)čan*; PW **s-jen*, Lm *kcèn*
- khét frog -- TNH *xet*²; Pr *khét* <*keiθ*>
- pét duck -- TN *pet*⁵; Lm *pét*
- vet to surround (~ *pəkhəy*) -- Lü *vet*^θ
- yết to sleep -- Hu *ʔèt*, Ak, Ml, Am *et*; PW **ʔit*, Lm *ʔít*
- ʔàt he, she, it -- Pm *i*; Hu *ʔán*; PW **ʔin* "this", Bl *ʔán*, Lm *ʔéen*
- kát to think -- Lü *kwt*^θ; Bl *kkít*, Pr *kàt* <*gēθ*>, Lm *lmkít*
- kăt to be born, to come out, to rise (of the sun) -- Lü *kət*⁹
- phàt female, wife; *fán* ~: woman -- Pm *pote*, Pn *p'ō*; Hu *phín*, Kk *peune*, Ki *kheune*, Ak, Ml *kōn*, Am *fōn*, *kōn*, M *phən*, MW *phōn*; PW **rmpɤŋ*, Lm *rmpín* "woman", *kpín* "wife"
- săt to wash; ~ *ŋây tî*: wash one's face -- PW **khac*, Lm *khóac*
- qít to scratch -- TN *xit*⁵; PW *(*hac*), Bl *kɤàc*, Pr *kràc* <*grāig*>, Lm *ŋkràac*
- tít See: *ʔay* ~ *sáv*
- ʔavít to run (~ *tĩ*)
- ʔốt to stay, to live, (to be) at; ~ *ʔê*: be happy; ~ *hóă maw*: above; ~ *tà nnĩ*: be here -- Hu *ʔòt*, MW *õt*; PW *(*ʔot*)
- not beard (*sús* ~) -- TN *not*⁵
- pốt to catch, to seize (person)
- fốt to wipe, to rub -- Bl *ʔót*, Pr *ʔót* <*od*>, Lm *ʔóot*
- hət finished -- PW **hac*, Km *hóac*
- lòt to penetrate

pət	short; to break (itr.) -- Pn tua; M toot, MW tōt; Pr ntòt <ndōd>, Lm tət
thət	near -- Pn tie
ntshət	to smoke (cigarette); ~ súp: smoke cigarettes -- Kk toot, Am tawt; PW *(ntət)
χət	to tie (a knot) -- Thai khòt; LmB rót
χət	to arrive -- Am roit; PW *hoc, Km ròt
kùt	to burn -- PW *gic, Km kùuc
khút	to dig -- TNH xut ⁵
khút	male; fán ~: man; tó ~: male animal -- Pm coute, Pn k'ú; Hu khún, Ki kouine, kouigne, Ak kuwin, Ml kwTn, Am kuwin, M, MW khun; PW *kij "father", LmD kúun
mút	grave -- PW *(rmic)
samút	angry
ngùt	termite -- UW h'pruik ⁵⁵ ; Hu məúun "ant"; PW *grin, Lm prùun
sút	to sting -- PW *hic, Lm húuc
ntút	mouth, snout -- Pm dote, Pn mua; Hu ntún, Kk togne, Ki moeng, Ak, Ml moin, Am en twin; PW *mɔn, B1 ntún, Km hntòon
χút	to go down; set (of the sun) -- Ak kut
yút	to push
ʔáw	saliva (ʔóm ~)
háw	see: kǎ ~
kàw	to hear -- Pn chia
kàw	owl (~ mêm)
khàw	to enter -- TN xaw ³
maw	above, overside
nàw	in, inside; ~ kǎ: in the house, at home
jàw	fire -- Pm nao, Pn ngao; Hu nǎl, Kk, Ki ngal; Ak, Ml ngall, Am ngé, M na(h), MW nǎ; PW *nɔl, Lm nǎl
pàw	to guard, to protect -- Chinese bǎo; TND paw ²
pháw	too (much); ʔǎ ~: too many
phaw	mortar -- Hu mphál; PW *(pɔl/r), Lm pál
sáw	to climb; ~ nǎp sì: climb a tree; ~ póm: climb a mountain -- Lm háaw
sáw	See: ʔay tít ~
satàw	to limp -- TN taw ⁶
tsǎw	stove -- Chinese zào
patsaw	Buddha -- Thai phrácǎw "God"; Am pa hsaw "God"
χǎw	ground
ʔêw	blind (nǎy ~)
péw	monkey
kíw	mountain pass -- Thai kǐw; B1 kǐw
tíw	trousers -- TN tew ² ; Ki téou, Ak, Ml teo
síaw	flute -- Chinese xiǎo
ʔáy	smoke (~ nǎw), smell (~ vè); ~ qùf: cloud -- TN ʔayl "steam, vapour"

- ʔăy we (dual) -- Hu ʔày; B1 ʔáʔ, LmB ʔáy
 ʔay prefix in men's names; ~ ʔít sáw: name of informant -- TN ʔaay³ "man"
 háy to fight; ~ nà:n: fight a war; ~ pà tî: fight each other
 kăy they (dual) -- Hu kăw; B1 kàʔ, Lm kàar
 khây cooked rice; food; ~ sən̄: lunch -- Pn k'ai; Hu khây "eat", Kk khai "eat", Ki khay "eat", Ak, Ml kai "eat", Am kyé "eat", M khaay "eat", MW khāi "eat"
 lăy squirrel -- Hu ʔalây; PW *ʔlay, LmB lèey
 nây female; ~ ʔăn: wasp; ~ kíā: big toe; ~ ʔăf: daughter-in-law; ~ thí: thumb; ~ ʔú: (old) woman; yé ~: hen
 năy mother; ~ ʔè: our mother -- Pm nai, Pn a-nai; Hu ʔanây, Kk noè, Ki neuille, Ak nwe, Ml nwé, M ʔa-nəay, MW nui; Lm nêe?
 ɲây eye; ~ sən̄: sun; ~ ʔăă: flower bud -- Pm, Pn ngai; Hu sən̄ây, Kk segnaie, Ki saknay, Ak, Ml ngai, Am hsu ngé, M si-ɲaay, MW sãñāi; PW *ʔnay, Lm ɲàay
 sanây far -- Pn ngai; Hu ɲʔnây, Ki segnay, Ak s'ngai, Ml é, Am ngé, MW ñāi; PW *sɲay, Lm sɲàay
 páy spittle (ʔóm ~)
 phây to wash; ~ ɲkhù: wash rice; ~ thú: wash vegetables
 phây to send
 phăy you (dual) -- Hu phăw; B1 páʔ, Lm pàar
 ʔəqây to turn
 táy cotton -- TN taay¹; Pm tai; MW pătāi
 tsây ʔʔr ~: grandfather -- TN caay⁴ "male"
 vây after; ~ nè: after that, later
 ʔavây tiger -- Pm avai, Pn vai; Kk khuvai, Ki khavay, M lwaay, MW lăwāi; PW *rway, LmD rwàay
 wáy three -- Hu kaʔây, Am wé, MW ɣi; PW *lʔay, Lm ʔlɔay
 khóy to have, there is; ~ sú: be ill -- UZ k'oi⁵¹; Hu khòy, Kk kouille "to be", MW khui; PW *koy, Lm kóoy
 hòy to hang
 pakhoy to encircle
 lóy to float -- TN lɔy⁴; Lm lèey "to flow"
 móy cattle, cow -- UZ mɯai³¹, Pm mouei, Pn hmui; Kk moè, Am mwe, M muay, MW mui, mɔi, mōi; PW *(k)mɔy
 mây tired -- TNH moy¹
 mây dusk; tà ~: at dusk
 ɲóy to look
 sôy to slice -- TN sɔy⁴
 ʔûy to smell (sth.); to smell (itr.); to stink; ~ ʔăt: stink much; ~ samò: smell good; lè ní vè lăf ~: take this thing and smell it; vè ~: stinking thing; -- MW ui; PW *sʔoy, Lm ʔúuy
 qhúy worn out, broken

- m̐ one (reduced form of *mò*, used before other numerals and classifiers); ~ *tshâ*: one hundred; ?ú ~ ?í: one person
 n̐ (reduced form of *ní* "this" ?); ~ *saŋĩ*: today

5.2 English-U index

above	(hóã) maw	before	lăt
after	váy	begin	kò
after that	váy nē	belly	tû
alive	ʔip	bent	kùã
already	kuã	between	kú thēr
also	ku	big	ʔăt
ancestors	tsó ʔũn tsá/mà năy	bird	pachip
and	mà	bite	kás
angry	samùt	bitter	sàs
animal	tó sət	black	lăs
animal, tame	khóã	blind	ʔêw
answer	tăp	blood	sanəm
ant	tsó	blood vessel	sanəs
any	mê	blow	fú, phùs
arm	thí	blue	môn
arrive	χot	boat	lốã
arrow	tê	body	tó
as soon as	kuã	boil	ʔalís
ashes	ηì	bone	səʔáã
ask	savàã	born	kăt
at	kú, tà	borrow	χəp
at home	nâw káã	bottle	kôã
away	phoã	bow	ʔăs
axe	mmè	brain	ntshǎs
back	tās	bran	ηkhám
bad	yèt	break	pòt, phís
bag	thùã	breast	nús, pú
bamboo	χìs	breath	ʔasém
banana	ʔamò	breathe	thìs ʔasém
bark (n.)	səχǎs	bridge	thús
bark (v.)	phê	bright	păs
barking deer	phó	broken	qhúy, yèt, yòs
barn	káã tàp	brook	fán ʔóm
basket	píã, χôã	brother	ʔêr hú
bathe	sùp tí	Buddha	patsaw
be	mà	buffalo	qhăs
be able	sâã	build	mpốã
be at	ʔòt	burn	kút, nthóm
bear	χí	butt	khàm
beard	sús not	buy	lès
beat	ηê, thì	can	sâã
beautiful	yốã	capon	yé sê
bedbug	sìs	carry	yô
bee	só	cat	mêm

catch	saqăp, pôt	direction	hóă
catch a cold	khát tsò tî	dirty	ncĩr
caterpillar	póă súr	disease	sú
cattle	móy	do	cí
cause	ten	dog	sò
cave	thâm	door	?avâ
change	?alâr	downward	hóă ɣxùp
charcoal	sé	dregs	ɣé
chest	núr, qhĩr	drink	nâ
child	fán ?ú	drum	sathùr
cigarette	súp	duck	pét
claw	nchìp	dung	?aphú
climb	sáw	dusk	móy
clothes	sapè, ɣò	dust	mún muĩ
cloud	?áy qùr	each other	pà tî
cock	yé khùt	eagle	hũă
cold	khát, làă	ear	sũr
comb	sanà	ear (of grain)	ɣkó
come	lár	earth	thè
come down	lóă lár	east	hóă ɣây sanĩ kăt
come out	kăt	eat	nâ
cook (n)	?ú khá kháy	egg	nthàp
cook (v)	khá	eight	thà
correct	ɣò	elbow	săĩr
cotton	táy	eleven	tshò ɣe mò
count	kí	encircle	pakhoy
cow	móy	enough	lór
crab	thám	enter	khàw, lúp
crooked	kũă	even	kăp
crossbow	?ăĩr	evening	sém, pó
crow	fór	exchange	?alâr
cry	yâm	explain	cĩ
cut	tèp, vét	eye	ɣây
dance	ɣkà	face	?ò
daughter	nây ɣàĩ	fall	ntũ, ɣur
-in-law		far	sanáy
dawn	qí păĩ	fat (n)	patshóă
day	sanĩ	fat (a)	pò
day after	?akhì	father	?ũn
tomorrow		fear	lăt
day before	sanĩ mân	feather	sũr múĩ
yesterday		female	nây, phăt
deep	qú	few	lè
deer	yăĩ, phó	field	mâ
die	yàp	field (dry)	mâ qhĩr
dig	khút, tsăĩ	fight	hây, khâm

finger	ʔakùn thí	grandmother	ʔǎʔ (nâ)
finger, index	ʔũn thí	grass	là sì
finger, little	fán thí	grave	mút
finger, middle	ʔakùn thí kú thèʔ	grease	patshóǎ
finished	hót	green	sanĕn
fire	hàw	ground	χâw
fish	khà	guard	pâw
five	sát	gun	nát
flatlands	tũǎ	hair	súʔ
flea	fèt	hand	thí
flee	hghà ʔavít	hang	hòy
float	lúy	happy	nún sà, ʔǎʔ ʔâ,
flow	salò		yò ʔâ
flower	χâǎ	harvest	pín
flower bud	hây χâǎ	have	khóy
flute	síaw	he	ʔát
fly (n)	sìn	head	khìʔ
fly (v)	mphà	headman	(thà) qò
food	kháy	hear	kàw
fool	ʔú lèn	heart	ʔasáʔ
foot	kíǎ	heaven	qí
footprint	hkat kíǎ	heavy	kèt
ford	ntáǎ	help	pó
forest	mpà sì	hen	yé nây
forget	pìn	here	tà nnî
four	phón	hide (n.)	hókú
fowl	yé	high	líǎ
fox	sò qí	hit	tsò, hĕ
fragrant	samò	hold	kĕm
freeze	khát	hole	nthú
frog	khét	home	káǎ
from	thà vá, tham	honey	ʔóm nǎǎ só
fruit	hǎí	horn	kìʔ
full	síʔ	horse	hghàʔ
(with food)		hot	kát
geld	sĕ	house	káǎ
generation	tsó	how	cín mĕ
get	yò (tî), pín	how many	kòn táʔ
get up	χè tsò	human being	ʔú
give	ten, tĕ	hundred	(m) tshâ
go	hò	hungry	sâm (vĕ)
go down	lǎǎ (hò), χút	hunt	mò sâ, hĕ
go out	χè hò	hunter	thà mò sâ
goat	pĕ	hurt	sú
good	ʔâ	husband	mĕ
grandfather	ʔǎʔ tsây	husk	hkhám

l	ʔò	lunch	kháy sǎŋĩ
if	nté	lung	saphǒp
ill	khóy sú	lute	tíǎ
in	kú, nǎw	machete	sǎŋ tǝp
inside	(kú) nǎw	magic	fà
iron	ʔǎŋǎŋ	make	cí
it	ʔǎt	make fire	qǎ (nǎw)
itch	ŋǎ	male	khùt, hú
jaw	khap	man	fǎn khùt
jealous	la ʔasǎŋ	manage	yò
joint	ntshǎŋ	many	ʔǎǎ
jungle	nǝŋ	marry	lè
just	tu	meat	nè
kernel	sǎŋ	meet	pùŋ
kill	ŋê	Mekong	ʔóm siǎ
knee	qúǎ	meteor	samèt mphà
knife	sǎŋ	middle	thèŋ
knife, small	fǎn sǎŋ	midnight	kú thèŋ sém
know	tsà	money	mùn
lake	nǎǎ	monkey	péw
later	váy nè	moon	ntsho mo
laugh	ŋǎŋ	morning	χǎǎ
leaf	là (fá), fá	mortar	phaw
leaf bud	χǎǎ fá	mosquito	sìn
lean	nniǎ	most	khen, khen ʔǎǎ
left	fè	moth	kùŋ
leg	nèŋ	mother	nǎy
let	ten	mountain	pǎm
lie	paʔǎǎ	mountain pass	kíw
light	pǎŋ	mouth	ntùt
light (weight)	sayiǎ	move	qú
lightning	ʔǎqhǎŋ	much	kə, ʔǎt
like	nún	mud	pǎǎ
limp	satàw	nail	nchìp
lip	fǎǎ ntùt	name	tsì
liquid	ʔóm	nature	qí
listen	nǎǎ	navel	sanùp
live	ʔǎt	near	thòt
liver	tshom	neck	ŋkhǎŋ
livestock	khǎǎ	needle	ŋè
log	làw sì	new	mè
long (time)	hǎǎ	night	sém, pó
look	ŋóy	nine	thìp
louse	mìlì, nchí	nod	ʔǎŋǎŋ
love	nún	noon	sǎŋĩ
low	tsóm	nose	tì

not	ʔàn	rice, plant	fìǎ
not yet	pə	rich	mí
old	sathàt, kè, ɣìp	right (side)	ɣàp
old times	thú sì	right	ɣò
on top	hóǎ maw	rise	ntòɽ, ɣè, kǎt
one	mò, m̃	river	ʔóm ʔàt
oneself	tî	road	mmòɽ
orange	máɽ tsǝɽ	rock	ʔaʔáǎ
other	sapò	roll	salò
others	ʔí	roof	ʔapón (káǎ)
outside	(nə) nòɽ	room	káǎ
overside	maw	root	yô
owl	kâw mêm	rope	sí (thěp)
paddy	sáɽ	rotten	səp
pain	sú	round	mo
palm of hand	ʔatǎɽ thí	rub	fǝt
penetrate	lòt	run	té, yé, ʔavít tî
penis	lì	run after	ɣìp
people	ʔí	run away	ŋqha ʔavít
person	ʔú	sacrifice	tan
pestle	ŋqhi	saliva	ʔóm ʔáw
pierce	mpǝɽ, sét	salt	ʔóm qú
pig	lís	sambar deer	yǎɽ
pinetree	sì kí	sand	ntshǎt
piss (n.)	ʔóm lùp	satisfied	lòɽ
piss (v.)	lùp tî	scratch	qít
place	mpháǎ, kán	see	yò
play	thì, phùɽ, ɣà	seed	sáɽ
point	cî	seize	pǝt
pond	tǎǎ	sell	tsó
prick	mpǝɽ	send	pháy
prosperous	vin	set	ɣút
protect	pâw	(of the sun)	
pull	ʔà	seven	mphùn
pupa	qí	sew	qó
push	yùt	shade	ɣòm
quick	mèɽ	shadow	ɣáǎ
rain	salè	she	ʔàt
rank	səŋét	sheep	cèn
rat	ŋkáǎ	shoot	phèt
rattan	mán	short	pòt
reason	mpá	shoulder	saxáǎ
ribs	(saʔáǎ) qhǝɽ	shoulder bag	thùǎ fà
rice, cooked	kháy	sibling	ʔèɽ pù
rice, grain	ŋkhù	sibling, elder	ʔèɽ
rice, in husk	sáɽ		

sibling,	pù	stand	tsò
younger		star	samèt
sick	sú	stay	ʔǒt
sickly	yòŋ	steal	ŋqha
silver	mùn, ɲin	stick	sì
since	tha vá, tham	sting	tǝŋ, sú
sing	thò, ʔù (xə)	stink	ʔùŋ
sister, eldest	ʔêŋ yê	stomach	tû
sister, second	ʔêŋ mò	stone	samò
sister, third	ʔêŋ pēã	storm	samà ʔà
sister, fourth	ʔêŋ pòm	story	ʔapùm
sit	tsóm	stove	tsǎw
six	nthò	straight	sì
skin (n.)	ɲkú	strength	xèã
skin (v.)	phâ	string	sí
skirt	ɲà	strong	khóy xèã, ʔêã
sky	kôã háw, qhìŋ	stupid	lân
slaughter	ɲê	suddenly	ná tho lâ
sleep	yět	sugar	ʔóm mê
slice	sòy	sugar cane	qôã ʔóm mê
small	ɲě	sun	ɲây sanĩ
smear	tâ	surround	vət pakhoŋ
smell (n.)	ʔáy	swallow	khép
smell (v.)	ʔùŋ	sweep	phì
smoke (n.)	ʔáy ɲàw	sweet	ɲóã
smoke (v.)	ntshǒt	swell	ʔáŋ
smooth	lám	tail	sathà
snake	sèt	take	lè
sneeze	ʔathî	talk	tò ʔapǎŋ, ʔù ʔapǎŋ
snore	satíã tĩ	tall	líã
snout	ntút	tattoo	sâm
sole of foot	ʔatǎŋ kíã	tea	lâ
some	mà	tell	ne, tò, va
son-in-law	món	ten	tshò
song	xə	termite	ɲqhùt
soul	qhà	that	nè
sour	səʔá	then	na, tu
speak	ʔù	there	tà nnê
speech	ʔapǎŋ	there is	khóy
spin	patsón	they (dual)	kǎy
spirit	(thí) thà qí	they (pl.)	ké
spit	mpét	thick	ná
spittle	ʔóm páy	thigh	nèŋ ʔà
split	sèn	thin	váã
squirrel	láy	thing	vè
stab	sét	think	kát

this	ní, nní, ʔani	wash	sathú, saɿ, sùp, sǎt,
thorn	χǎǎ		pháy
thread	sí táy	wasp	nây ʔǎn
three	wáy	water	ʔóm
throat	nthú	we (dual)	ʔǎy
throw	fǎǎ, ʔavɿ	we (pl.)	ʔè
thumb	nây thí	weak	yòɿ
thunder	nàp	weave	thán
tie	χǎt, nqhùn	weep	yâm
tiger	ʔavây	west	hǎǎ nây sanɿ χút
tired	mòy	what	mê, ntǎɿ
to	nà	when	yám mê
tobacco	súp (tê)	where	tâm mê
today	ń sanɿ	white	pán
toe	ʔakùn kíǎ	who	mê
toe, big	nây kíǎ	why	cín mê
toe, little	fán kíǎ	wide	vâ
tomorrow	nqǎǎ	wife	phàt
tongue	nthǎɿ	wilderness	qí
too	pháw	win	pê
tooth	nqkhèt	wind	samà
trace	hò	window	phá wǎǎ
tray	tǎɿ	wine	qhó
tree	nèp sì	wing	patshó
tripod	kíǎ	wipe	fǎt
trousers	tíw	with	mà
trunk	lám	woman	nây ʔú, fán phàt
turn	ʔaqáy	wood	sì
twelve	tshò xe ʔá	work (n.)	vís
twenty	ʔá tshò	work (v.)	cí vís
two	ʔá	worm	pǎǎ
under	nqǎp	worn out	qhúy, yèt, yòɿ
Va	vâ	year	sanàp
vegetables	thú	yellow	líǎ
very	ʔǎt	yesterday	khù
village	χìp	you (sg.)	mî
violin	ʔí ʔò	you (dual)	phǎy
vomit	pê (phǎǎ)	you (pl.)	phé
vulva	khè	young	ñě, fán
wade	ntǎǎ ʔóm	Yúnnán	yín nán
wait for	χò		
walk	nqhû (mmòɿ)		
walking-stick	sì satàw		
wall	nthìɿ		
war	nàn		
warm	χíǎ		

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