An analysis of Muak Sa-aak tone

Elizabeth Hall

Background:

Also known as Tai Loi Classified as Austroasiatic, Mon-Khmer, Northern Mon-Khmer, Palaungic, Eastern Palaungic, Angkuic Located in Eastern Shan State, Myanmar, and in China. Documentation: articles by Svantesson: on Hu (1991) and U (1988)

Characteristics of Angkuic languages:

• "Germanic" shift:

Proto-voiceless initial stops >> aspirated;

Proto-voiced initials >> voiceless.

- Retention of proto h- and s- distinction.
- Hu, U: tone; no contrastive vowel length.
- Tonogenesis linked to loss of contrastive vowel length.

Muak Sa-aak segmental phonology:

Initial consonants:						
	Labial	Alveolar	Pre- palatal	Post- palatal		
Stop	$b \ p \ p^{\rm h}$	d t t ^h	c c ^h	$k \; k^{\rm h}$		
Nasal	m	n	n	ŋ		
Fricative	f	S		h		
Approximant	w	l, r	j			

Final consonants: /p, t, c, k, m, n, n, n, w, j, l/

Vowels:				
	Front	Back unrounded	Back rounded	
Close	i i:	ա ա։	u uː	
Close-mid	e e:	x x :	0 0.	
Open	εia	a a:	o ua	

Tones:

-

- Voice quality is an accompanying feature of tone.
- Tone does not carry a high functional load.
- Restriction on occurrence of tones according to syllable structure.

Tone 1: <u>low tone</u>; accompanying stiff voice.

Occurs with: checked long syllables (final p, t, c, k), open syllables, and sonorant finals (m, n, η, j, w, l) regardless of vowel length.

Tone 2: high constricted tone

- 1. High allotone in short syllables; modal voice. Occurs with: short open syllables; short checked syllables (final p, t, c, k).
- 2. Falling allotone in long syllables; creaky. Occurs with: long open syllables, sonorant-final syllables (final m, n, η, j, w, l).
- *Tone 3:* <u>falling tone</u>; modal voice
 - Occurs with: long open syllables, sonorant-final syllables (m, n, n, n, j, w, l).

	Ton	e 1 (low)	Tone 2	(high constricted)	Tone 3	6 (high falling)
CVS	prl ¹	"fall"	kan ²	"be defeated"*	kam ³	"language"
CCVS	k ^h uː ³ kran ¹	"lazy"	$p^h r r y^2$	"clam"	ргеŋ³	"head"
CVVS	kr:n1	"before"*	kuaŋ²	"bottle"	kaːŋ³	"house"
CCVVS	kry:n1	"lying down"	k ^h ruan ²	"gather"	kriːl³	"skinny"
CVP			kat ²	"burn"		
CCVP			prɛt ²	"lick"		
CVVP	ka:t ¹	"fasten"				
CCVVP	t.pruːt ¹	"swallow"				
CV			ke ²	"they (3PL)"		
CCV			kra ²	"stir"		
CVV	<i>ke:</i> ¹	"pour"	рэ:1 ka:2	"trader"	ka:3	"pack (v)"
CCVV	pra:1	"split open"			kra:3	"mat"

istanihies for tone and synaple suructure.	Examples	for tone	and svl	lable st	tructure:
--	----------	----------	---------	----------	-----------

Correlation of tone and syllable type:

		r	<u> </u>	n de la constante de
Cullable trme	Tone 1 Low	Constr	Tone 3	
Synable type	stiff	High modal	High-falling creaky	High-falling modal
short open,		v		
short checked		Λ		
long checked	Х			
long open,	V		v	v
long smooth	Λ		Λ	Λ

Tonogenesis in Angkuic languages:

- In Hu, U, tonogenesis linked to loss of contrastive vowel length.
- Muak Sa-aak has tone- but retains vowel length contrast.
- 3 factors involved in Muak Sa-aak tonogenesis:
 - \circ loss of some final consonants
 - \circ borrowing
 - o vowel length

Muak Sa-aak tonogenesis:

Compared Muak Sa-aak data with Lamet data (Svantesson 1988) which preserves vowel length contrast.

- *Final sonorants:* Have maintained contrastive vowel length; developed falling Tone 3, with modal voice. This does not account for the minority of sonorant final words with Tone 1 or 2.
- *Glottal stop finals:* These have all become the high allotone of checked Tone 2. Regardless of vowel length in Lamet data, in Muak Sa-aak, all are short.
- *Final stops /p, t, c, k/*: If short vowel, these are the short high allotone of Tone 2; if long vowel, these are Tone 1 (long).
- *-*h*, *-*s*: These appear to have become low Tone 1, but are now open syllables in Muak Sa-aak, since these finals no longer exist.
- *Falling allotone of Tone 2:* Only 1 in 10 of Tone 2; most do not match up to the Lamet data. Most borrowed from Tai Lue, and usually have a glottalized tone in Tai Lue.

Conclusion

• Setting aside syllable structures heavily influenced by borrowing or by the loss of the *- h and *-s finals:

Three pitches remain, for three syllable structures. Therefore: pitch is a function of vowel length, and syllable coda.

References

- Diffloth, Gérard. 1991, "Palaungic vowels in Mon-Khmer perspective", in *Austroasiatic Languages, Essays in honour of H. L. Shorto*, ed. J.H.C.S. Davidson, pp. 13-28. School of Oriental and African Studies, University of London.
- Hall, Elizabeth. 2010. A Phonology of Muak Sa-aak. MA Thesis, Payap University: Thailand.
- Suwilai Premsrirat. 2001. *Tonogenesis in Khmu dialects of SEA*. Mon-Khmer Studies 31: 47-56.
- Svantesson, Jan-Olof. 1988. "U." *Linguistics of the Tibeto-Burman Area*, vol. 11, no. 1, pp. 64-133.
- Svantesson, Jan-Olof. 1991. "Hu a language with unorthodox tonogenesis", in Austroasiatic Languages, Essays in honour of H. L. Shorto, ed. J.H.C.S. Davidson, pp. 67-80. School of Oriental and African Studies, University of London.