



Numerals and Classifiers in Modern Karenic Languages and Proto-Karen



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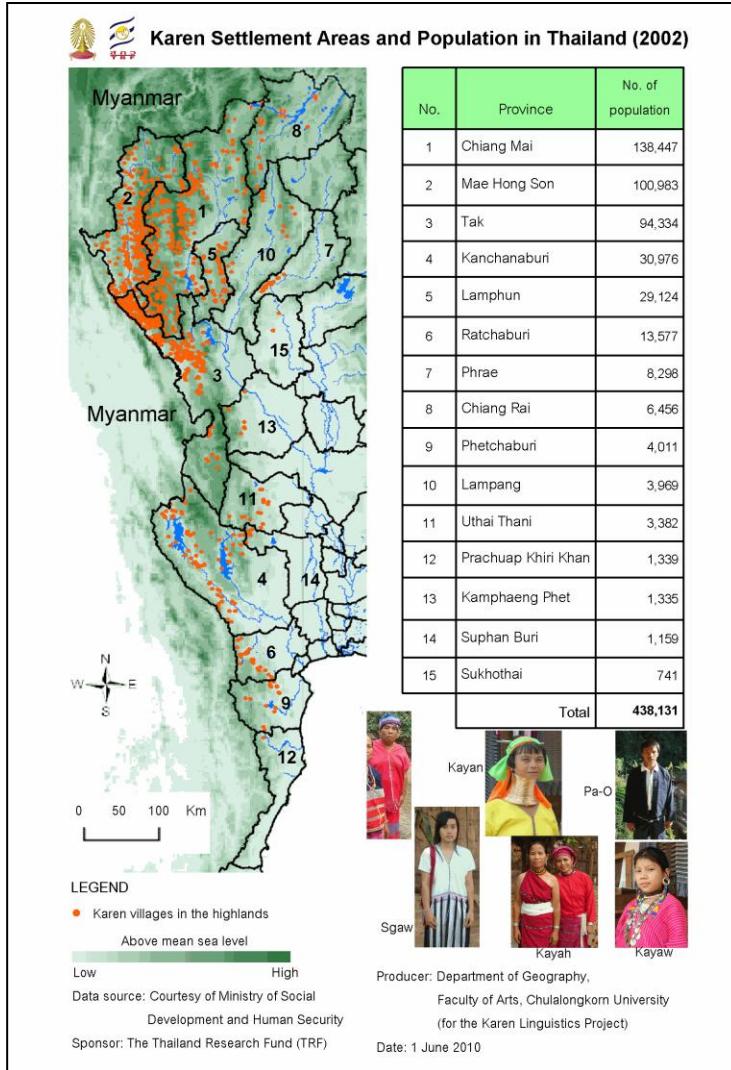
Background (1)

Distribution of the Karen in Myanmar and Thailand





Background (2)



- Karen population in Thailand: 438,131 (Ministry of Social Development and Human Security, 2002)





Background (3)

Pa-O



Pwo



Kayaw



Kayah



Kayan



Sgaw



Demical system

	Pa-O	Kayan	Pwo	Sgaw
ONE	ta? ²¹	ta ¹¹ ~ la? ²¹	la ¹¹ ~ la? ²¹	tə ³³
TWO	ni ^{31..}	ŋi ⁵³	khei ³⁵	khi ⁵⁵
THREE	səm ^{31..}	θə ⁵³	səd ³⁵	sə ³³
FOUR	lip ⁴⁵ ~ lit ⁴⁵	lwi ⁵³	lwi ^{11..}	lwi ^{11..}
FIVE	ŋat ⁴⁵	ŋε? ²¹	jε ^{11..}	jε ^{11..}
SIX	su ^{31..}	chu ⁵³	xou ³⁵	xɪ ³³
SEVEN	nít ²¹	nwe ⁵³	nwe ⁵⁵	nwi? ⁴⁵
EIGHT	sət ²¹	chau? ⁴⁵	xo? ²¹	xɔ? ⁴⁵
NINE	kot ⁴⁵	khwi ⁵³	khwi ³⁵	khwi ³³
TEN	çí ^{31..}	thi ⁵³	chei ³⁵	chi ³³



Combined system (Multiplicative and additive)



	E.Kayah	Kayaw
ONE	t ⁻¹¹	t ^{- 11 ~ 33}
TWO	nə ³³	ki ⁵⁵
THREE	sɔ ³³	sə ⁵⁵
FOUR	lwi ³³	li ⁵⁵
FIVE	ŋɛ ³³	jɛ ³³
SIX	so ³³ swa ⁵⁵	sɪ ⁵⁵ su ³³
SEVEN	so ³³ swa ⁵⁵ t ⁻¹¹	sɔ ³³ ne ⁵⁵
EIGHT	lwi ³³ swa ⁵⁵	li ³³ su ^{33/-xɔ¹¹}
NINE	lwi ³³ swa ⁵⁵ t ⁻¹¹	sɔ ³³ khi ⁵⁵
TEN	chə ³³	çi ⁵⁵



Vowel harmony and tone sandhi in N+NUM+CLF phrases



	E.Kayah	Kayaw
‘one house’	hi ¹¹ te ¹¹ me ³³ (e-e)	chi ¹¹ ta ¹¹ ma ³³ (a-a,LM)
‘one leaf’	le ¹¹ te ¹¹ be ¹¹ (e-e)	la ¹¹ ta ³³ ba ¹¹ (a-a, ML)
‘one dog’	thwi ¹¹ to ¹¹ do ³³ (o-o)	thi ¹¹ to ¹¹ do ⁵⁵ (ə-ə, LH)
‘one lump of clay’	he ¹¹ klo ⁵⁵ to ¹¹ plɔ ¹¹ (ɔ-ɔ)	ha ¹¹ tə ³³ khlo ³³ (ə-ə, MM)
‘one ball of thread’	lo ¹¹ tu ¹¹ khu ¹¹ (u-u)	lu ¹¹ tu ³³ khu ¹¹ (u-u, ML)
‘one patch of cloud’	lɔ ⁵⁵ lo ¹¹ ti ¹¹ bi ¹¹ (i-i)	ta ³³ ?i ¹¹ ti ³³ to ³³ khlo ³³ (ə-ə, MM)
‘one slice of cucumber’	də ³³ se ¹¹ ti ¹¹ bi ¹¹ (i-i)	di ⁵⁵ sa ¹¹ ti ³³ khri ¹¹ (i-i, ML)



Proto-Karen numerals (1)

ONE

*t-la^T [PTB *it, *kat, *g-t(y)ik (JM); *g-t(y)ik (PB); PSETB *ti² (DB)]

PK * - (RJ)

TWO

*k-hnej^A [PTB *g-nis (JM, PB); PSETB *s-ni² (DB)]

PK * - (RJ)

THREE

*səm^A [PTB *g-sum (JM, PB); PSETB *c-sum² (DB)]

PK * - (RJ)

FOUR

*lit^D/*hlwi^A/*lwi^A [PTB *b-ley, *b-ləy (JM, PB); PSETB *b-le² (DB)]

PK *lwíT (RJ)

FIVE

*ŋjat^D [PTB *l-ŋa ~ *b-ŋa (JM); l/b-ŋa (PB); PSETB *ŋa² (DB)]

PK *ŋáT (RJ)



Proto-Karen numerals (2)

SIX

*khrow^A [PTB *d-ruk (JM, PB); PSETB *c-krok^L (DB)]

PK * - (RJ)

SEVEN

?nwet^D /?nwe^A [PTB *s-nis (JM, PB); PSETB *c-ʃi(k)^{2/L} (DB)]

PK *nwét (RJ)

EIGHT

*khrɔt^D/*grɔt^D [PTB *b-r-gyat ~ b-g-ryat (JM); b-r-gyat (PB); PSETB

*c-yet^L (DB)]

PK * - (RJ)

NINE

*kot^D/*khwi^A [PTB *d-kəw ~ *d-gaw (JM); d-kəw (PB); PSETB

*(ʔ-) go² (DB)]

PK *- (RJ)



Proto-Karen numerals (3)



TEN

*chej^A [PTB *ts(y)i(y) (PB); *ts(y)i(y) ~ tsyay (JM); PSETB *tsay¹ (DB)]

PK *chih (RJ)

HUNDRED

*g-rja^A [PTB *r-gya (JM, PB); PSETB *C-rya¹ (DB)]

PK *rjà' (RJ)

THOUSAND

*g-thɔN^A; *hrenj^A [PTB *s-toŋ, *s-riŋ (JM); PSETB *ʔ- toŋ (DB)]

PK *- (RJ)



Proto-Karen classifiers

- CLF [+human] *bra^A
- CLF [-human +4-legged animal] *?də^A
- CLF [±animate +flat] *?ba^B
- CLF [±animate +long] *?bɔN^A
- CLF [±animate +round -big] *phlonj^B
- CLF [±animate +round +big] *hma^A



Conclusion (1)

- Numerals show various irregular correspondence patterns resulting from vowel harmony and tonal sandhi in NUM+CLF phrases and also from language contact.
- Comparable fresh data collected by one person helps make the reconstruction of PK numerals and classifiers possible.



Conclusion (2)

- PK numeral system is decimal (base-10) but decimal and combined systems in modern Karenic languages.
- Small numbers from 1-5 and big numbers: 10,100,1000, have been preserved quite well in all Karenic languages.



Conclusion (3)

- According to the Karen world view, SHAPE is more important than SIZE.
- With neither [+human] nor [+4-legged mammal], the rest of [+animate] and [-animate] share the same classifiers, i.e. [+flat/1-dimension], [+long/2-dimension] and [+round/3-dimension].



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