SOME CONSIDERATIONS ON THE CLASSIFICATION OF KHME

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Until quite recently, in the schools of the Khr
Republic, students were taught that Khmer was relate
to Sanskrit and Pali. This view was evidently due
several reasons: the high proportion of words borr
from Indo-European sources, especially Sanskrit and
Pali; the use of an Indian-based script; and the
tremendous cultural debt of Khmer civilization to
India. All of these reasons, at least in the popul
mind, obscured the fact that Khmer was really very
different from and unrelated to the Indo-European
languages of India. In this paper I shall discuss,
first and briefly, the history of Mon-Khmer linguis
classifications, and secondly some new data on the
position of Khmer within the Mon-Khmer Family.

In linguistic circles it had been supposed, at least as early as 1852, that Khmer belonged to the same family of languages as Mon, Cham, several montagnard languages of Vietnam-Cambodia-Laos, and, possibly, Vietnamese. Wilhelm Schmidt in 1907 suggested the existence of an Austroasiatic Family languages which included seven subgroups:

- 1. Mixed Group: Cham, Rade, Jarai, Seda
- Mon-Khmer Group: Mon, Khmer, Bahnar, Stieng, Samre, Khmu, Lamet, etc.
- 3. Senoi (Sakai) Semang Group
- 4. Palaung-Wa-Riang Group
- 5. Khasi Group

- 6. Nicobarese Group
- 7. Munda Group

he same article he reclassified these seven ps into three larger groupings:

- a) Semang
 b) Senoi
- 2. a) Khasi
 - b) Nicobarese
 - c) Palaung-Wa-Riang
- 3. a) Mon-Khmer
 - b) Munda
 - c) Cham, Rade

Przyluski in 1924⁴ classified Austroasiatic into e main groupings: Munda, Mon-Khmer, and Annamite. Mon-Khmer was in turn divided into the following

- Central: Mon, Khmer, Bahnar, Stieng, Rengao, Moi, Kha, Kuy, Chong, Pear, Penong
- 2. Eastern: Cham, Jarai, Rade, Sedang
- 3. Malay Peninsula: Semang, Sakai, Jakun
- 4. Nicobarese
- Middle Salween Basin: Palaung, Wa, Riang
- 6. Khasi

roups:

Schmidt in 1926⁵ made a further reclassification ustroasiatic and proposed the following groupings:

- 1. Old Malacca (Semang, Senoi)
- 2. Central (Khasi, Nicobarese, Palaung)
- Southeast and Northwest (including Mon-Khmer and Munda)
- 4. Northeast Mixed (Cham, Sedang)

Pinnow in his monumental work on Kharia divided to an Eastern and Western division.

- I. Western
 - A. West-Northwest: Nahali
 - B. Northwest: Munda

II. Eastern

- С. Southeast: Mon-Khmer
 - a. Mon
 - ъ. Cambodian Group
 - 1. Khmer
 - 2. Pear
 - 3. Chong
 - 4. Angrak and Sauch
 - Stieng
 - 6. Budeh and Dip
 - c. Chema Group Mnong Group
 - d. e. Bahnar Group
 - f. Sedang Group
 - g. Brao Group h. Jaru Group
 - i. Kuoy Group
 - j. Suoy Group
- D. Northeast: Palaung-Wa
 - Western Group
 - 1. Riang

 - Palaung
 Angku
 - 4. Wa
 - 5. Danaw
 - 6. Lawa
 - Eastern Group
 - 1. Khmu
 - 2. Lamet
- Ε. Northern: Khasi
- F. Southwest: Nicobar
- G. Semang
- н. Sakai
- I. Jakun

ъ.

Pinnow later modified his 1959 classification mainl by combining Mon-Khmer, Palaung-Wa, Khasi, Semang, Sakai, and Jakun into one sub-family which he called Palaung-Khmer. His 1963 provisional classification is given below:

Western Group (Nahali - Munda)

- (A) West: Nahali (?)
 (B) East: Munda
- - (a) North
 - (b) South

Eastern Group (Khmer - Nicobar)

- (A) West: Nicobarese(B) East: Palaung-Khmer
 - (a) West: Khasi

- (b) North: Palaung-Wa
- (c) East: Mon-Khmer (Mon, Khmer, Bahnar, Sre, etc.)
- (d) South: Malacca (Sakai, Jakud, Semang)

Shorto and Jacob 8 generally follow Pinnow's 1959 issification as far as the Cambodian Group is cerned, except that they omit the Budeh-Dip iguage. Thomas and Headley 9 showed that Pear, Samre, ong, and probably Angrak were distinct enough from mer to warrant setting up a separate branch of Monner, for which the term Pearic was suggested. The is probably a dialect of Stieng or Mnong. Omas and Headley used lexicostatistical methods to up a classification of Mon-Khmer which recognized

- I. Pearic
- II. Khmer

ie branches:

- III. Bahnaric
 - A. North Bahnaric
 - B. West Bahnaric
 - C. South Bahnaric
 - IV. Katuic
 - V. Khmuic
 - VI. Monic
- VII. Palaungic
- VIII. Khasi
 - IX. Viet-Muong

Headley, in an unpublished paper on lexical novations, modified the Thomas-Headley classification as follows:

- 1. Pearic Subfamily
- 2. Khmer Isolate
- Eastern Mon Khmer Mon Subfamily
 - 3.1. Bahnaric
 - 3.1.1. North Bahnaric
 - 3.1.2. West Bahnaric
 - 3.1.3. South Bahnaric

- 3.2. Katuic
 3.2.1. North Katuic
 3.2.2. South Katuic
- 3.3. Monic
- 3.4. Viet-Muong
- 4. Northern Mon-Khmer Subfamily
 - 4.1. Palaungic
 - 4.2. Khmuic
- 5. Malacca Subfamily 10
- 6. Khasi Isolate
- 7. Nicobarese Subfamily

I should now like to examine certain aspects of the Khmer language to see more precisely where it fi in the Mon-Khmer family. I hope to demonstrate that Khmer is a language isolate with some fairly close ties to certain northern and eastern Mon-Khmer languages.

There are several kinds of criteria that are useful in subclassifying languages. In general, a language may be classified on the basis of phonological, morphological, and lexical criteria. I am not convinced that phonological and morphological criteriare as useful or valid, at least for the Mon-Khmer languages, as are lexical ones. Nevertheless, I shadiscuss a few phonological and morphological criterial

I shall confine myself to three phonological phenomena: (1) the devoicing of original voiced sto in initial position, (2) the voicing of the original voiceless stops *t and *p in initial position, and (3) the loss of final *r. Khmer shares the devoicin of original initial voiced stops with Mon, many of t Palaungic languages, Sedang, Pearic, and, somewhat sporadically, with Vietnamese-Muong. Some examples are given below.

roto- -Khmer	Khmer	Mon	other	gloss
ар	toap	tòp	Pal. tap	'army'
a:	tie	tèa	Lawa: tiə, Pear: ta:, te	'duck'
lat	toat	tàt	Vn. tát	'slap'
lro:	tro:	krò	Pal. tạrŌ	'violin'
ium	cum		Vn. chum	'around'
ii:k	ci:k	coik		'dig'
jr i:	crey	sòa	Riang: cəri?	'fig'
jə:ŋ	cə:ŋ	càn	Sed. cêaŋ, Lawa: chuəŋ	'foot'
j1:	ci:	cì	Sed. cí	'mint'
jar	coa		Pal. jār	'resin'
gu k	kuk	kзk	Vn. ngực	'prison'
₃rah	kreah	krèh		'comb'
o_ñ	p ∔ñ	poin	Sed. pen	'full'
(m) bu l	pul		Sed. pôu Pear: pu(:)	'drunk'
Khmer	shares	the vo	icing of origi	nal *t and *p
th Vietn	amese, a	nd, sp	oradically, wi	th Lawa. How-
er, the	presence	of pr	enasalization	in Lawa suggests
at the v	oicing m	ight b	e a secondary	development.
me examp	les are	given	below.	
Proto- n-Khmer	Khmei	,	other	gloss
t_h	dah			'breast'
p_n	buən		Vn. bốn	'four'

at the vo	orcing might i	se a secondary de	veropment.
ше ехашрі	les are given	below.	
Proto-			
n-Khmer	Khmer	other	gloss
t_h	dah		'breast'
p_n	buən	Vn. bốn	'four'
po:k	ba: k	Vn. bóc	'to peel'
-tam	sdam	Lawa: ndom	'right'
pañ	bañ	Vn. bắn ¹¹	'to shoot'
pak	bak 'broken'	Lawa: mbuək (?)	'to stab'
tap	dap 'trim'		'to stab'
pu: (?)	bav	Vn. bú; Pal. bū	'to suck'
P	bəy	Vn. ba	'three'

Mon-Khmer	Khmer	other	gloss				
*tə:m	daəm		'tree trun				
*kp_n	kbən	•	'loincloth				

Loss of final *-r is shared by Khmer, Mon, Vietnamese, and Sedang.

Proto-

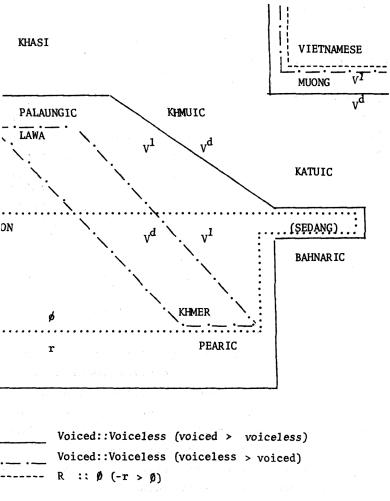
Proto- Mon-Khmer	Khmer	Mon	other	glos
*jar	coa			'resin'
*kor	kao		Vn. cao; Sed. kúa	'to sha
*ba∶r	pi:	ba	Vn. hai; Sed. pếa	'two'
*w_r	eiv	'	Vn. về	'abstai taboo'
*kəmor	kmao		Vn. mối	'beetle termit
*kəta:r	kda:	hətɒ		'board'
*səg_r	sko:		Sed. roka	'drum'
*k_por	kambao	aqen	Vn. vôi	'lime'

In many cases Vietnamese has the reflex - i of *-r ar Muong has the reflex - i. See Map 1.

Turning to the morphology of Khmer, there are two criteria of interest: the arrangement of the classified noun phrase and the type of pronoun system by "classified noun phrase" I mean a phrase which consists of a noun, a number word and a classifier. There appear to be two main arrangements used in Southeast Asia for the classified noun phrase. These may be represented by the formulae:

- (1) NUM + CLF + NOUN
- (2) NOUN + NUM + CLF

The chart below groups several Mon-Khmer languages according to which arrangement they use.



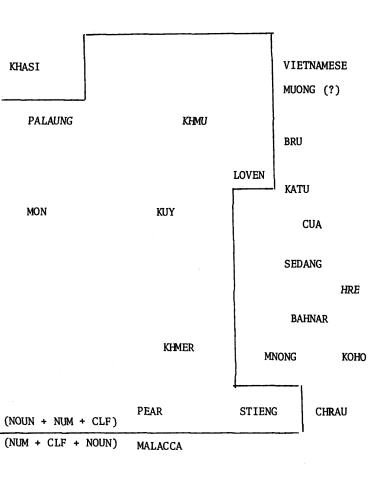
Map.1. Distribution of Three Phonological Features.

NUM + CLF + NOUN NOUN + NUM + CLF Vietnamese Mon Bru Palaung, Wa, Danaw Katu Khmu Cua Boloven Kuy 13 Hre (?) Bahnar Khmer Mnong (?) Pear Stieng 13 Chrau, Koho Khasi¹²

The non-Mon-Khmer languages Lao and Malay fall into the second category--NOUN + NUM + CLF--while the Austronesian languages Jarai and Rade fall into category one--NUM + CLF + NOUN. It may be significated that Jarai and Rade are practically surrounded by non-related Mon-Khmer languages that have the same arrangement for the classified noun phrase. This feature may perhaps be easily borrowed or modified. Map 2 shows the geographical ranges of both categorisms.

Sakai

There are four features that are of interest in classifying the pronoun systems: number (singular-plural versus singular-dual-plural systems), inclusiveness (exclusive and inclusive categories versus simple, non-marked forms in the first person dual arplural), sex (masculine and feminine), and status. Studies on the pronominal systems of Mon-Khmer languages are few, but some information can be abstracted from other linguistic studies. The following languages are those for which adequate data are available.



Map 2. Distribution of Classified Noun Phrase Types.

Palaung		. X		X	-
Riang-Lang		X			
Praok		X			
Khmu		X	X		
Pacoh		X			
Katu		X		\mathbf{X}^{\prime}	
Khasi	x		X		(16)
Mon	x			X	X
Vietnamese	x			X	
Boloven	x				
Khmer	x		(15)		
Mnong	(14)		X	x	X
Chrau	(14)		X	X	
Sedang		X		X	
Bahnar		X		X	x
mi i d i	1 144	- - - 1		/1 -1/1	
The geographica			_	· -	
and exclusive/i	nclusive	systems	are sho	wn on Map	3.
Lexically,	cognate	percenta	ages, sh	ared inno	ova-
tions and numer	al system	s are o	f intere	st. Thor	nas
and Headley (19	70) found	that co	ognate p	ercentage	28
between their n	ine branc	hes of l	Mon-Khme	r average	ed ou
at about 25%.	This woul	d appear	r to ind	icate tha	at al
of the branches	separate	d from	each oth	er at app	rox-
imately the sam	e time.	Khmer p	atterns	here as a	a ·
distinct branch	on the s	ame lev	el as Pe	aric, Kat	tuic,
and the others.	Cognate	percen	tages we	re slight	t1y

higher between Khmer and Pearic and slightly lower between Khmer and Viet-Muong. The higher percentage between Khmer and Pearic can probably be explained by extensive borrowing by Pearic from the more

prestigious Khmer.

Number

sg/pl sg/dl/pl

Sex

m/f

Exc1/

Inc1

Status

KHASI	VIETNAMESE (exc1/inc1)
PALAUNG (exc1/inc1) KHMU	77 II
RIANG (sg/dual/pl)	· · · · · · · · · · · · · · · · · · ·
(sg/p1) LOVEN	KATU (excl/incl)
	РАСОН
MON (exc1/inc1)	SEDANG
	BAHNAR
	MNONG I
	CHRAU

KHMER

Map 3. Distribution of Two Pronoun Features.

In an unpublished article on lexical innovation Headley determined that Khmer had one of the highest numbers of unique innovations for any Mon-Khmer grouping. A test list of 45 items, most of which are on the Swadesh 100-word list, was used in this study. The results, given in Chart 1, * show that Pear had 15 unique forms, Khmer and Vietnamese had 13 each, and the rest had much lower figures.

The unique forms in Khmer are:

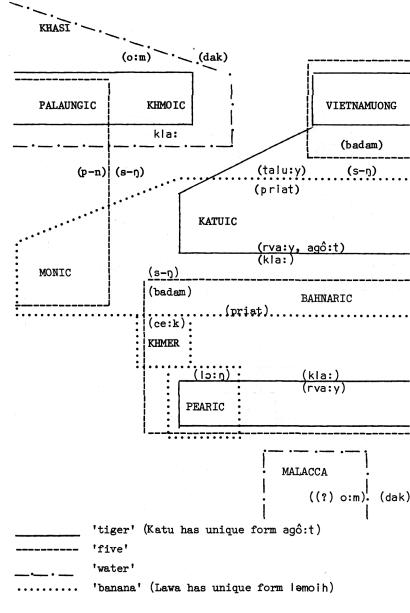
pruəñ	'arrow'	ce:k	'banana
slap	'die'	po:n	'egg'
damrəy	'elephant'	co:l	'enter'
pnε:k	'eye'	plə:ŋ	'fire'
trəy	'fish'	pteah	'house'
pləv	'road'	pka:y	'star'
sa:	'white'		

Khmer shares the words for 'breast,' 'buffalo,' 'dig,' 'five,' 'tiger,' and 'water' with eastern Mor Khmer languages and the word for 'good' with norther Mon-Khmer languages. Map 4 shows the isoglosses for four key words and Map 5 shows the sub-groupings and inter-group relationships based on lexical innovation

^{*}Key to Chart 1: Figures to the right of the double line indicate the number of words shared between individual languages. Thus PRC in line 1 shares 15 words only with itself; 11 words with KHM; 5 with NBC, and so on. Figures to the left of the double line indicate the average number of words shared between language groups/isolates. The following abbreviations are used: PRC=Pearic, KHM=Khmer, NBC=North Bahnaric, JH=Jeh-Halang, WBC=West Bahnaric SBC=South Bahnaric, KAT=Katu, KMU=Khmu, PAL=Palaung LAW=Lawa, VN=Vietnamese, MLC=Malacca, KHA=Khasi, NIC=Nicobarese, BNC=Bahnaric, KTC=Katuic, KMC=Khmui MNC=Monic, PLC=Palaungic.

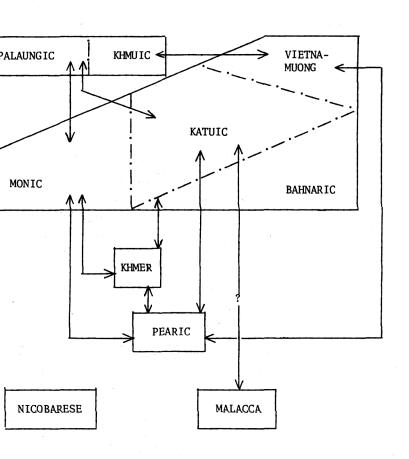
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	PRC	KHM	(NBC)	(1H)	BNC	(MBC)	(SBC)	(KAT)	KIC	(BRU)	(KMU)	KMC	(MAL)	MNC	(PAL)	PLC	(LAW)	ΔM	MLC	KHA	NIC

Chart 1



Map 4. Isoglosses for Four Words.

CHASI



Map 5. Sub-grouping Based on Lexical Innovations (arrows indicate inter-group relations)

The Khmer numeral system from six to ten inclusive, is unique. The method of forming the numbers six, seven, eight, and nine is by combining the form for one, two, three and four with the form for five. The word for ten is unique, dap. 17

The implications of these criteria for subgrouping are discussed below.

Phonology appears to be of very limited usefulness. Most of the Mon-Khmer languages share the same stock of phonemes. Indeed, even unrelated languages such as Rade, Jarai, and Thai do not differ very greatly from Mon-Khmer in their phoneme inventories. This is especially true for the consonants. Some of the phonological features, e.g., the loss of final *-r, are probably independent features not indicativ of any close relationship but rather suggestive of some broader areal trend. 18 If the devoicing of initial voiced stops and the voicing of original *t' and *p are shared innovations and not merely general Mon-Khmer tendencies, then Khmer appears somewhat closer to the western and northern Mon-Khmer languages -- especially Mon and Lawa. A tree diagram based on the above-mentioned phonological features might look like Figure 1 below.

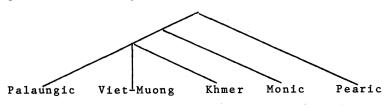


Figure 1.

Morphology does not seem to be any more useful for sub-grouping Mon-Khmer languages than phonology. In the arrangement of the classified noun phrase

er again appears to fall in with the western and northern -Khmer languages. The Khmer pronominal system has apparently fered considerable modification from the basic Mon-Khmer tem, but among the traits discussed above there are enough to gest a closer relationship of Khmer to Mon, Vietnamese and sibly Khasi than to Palaungic, Katuic, Bahnaric or Khmuic. the very least, it is clear that Khmer has developed a very ferent kind of complex pronominal system.

A genetic tree based on cognate percentages is given below Figure 2.

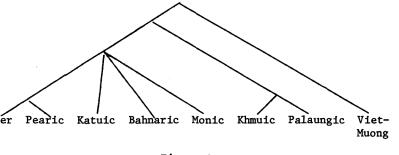


Figure 2.

this method, Khmer appears somewhat closer to Pearic and to clustering Katuic-Bahnaric-Monic. The genetic tree in ure 3 below is based on lexical innovations and agrees in t respects with the tree in figure 2.

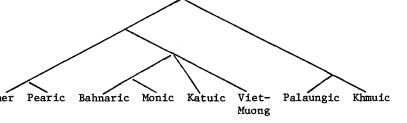


Figure 3.

The major difference in the two trees is the interchange of Viet-Muong and Palaungic.

After considering all of these criteria for the sub-grouping of the Mon-Khmer languages we are faced with several contradictions. On phonological and morphological grounds a case could be made for group ing Khmer closer to Monic, Palaungic, Viet-Muong, and Pearic. Yet, on lexicostatistical grounds Viet-Muor and Palaungic are shown to be quite distant from I again suggest here that phonological and morphological criteria lose much of their traditions validity when one is dealing with Mon-Khmer language Sedang serves to point this out. It shares two of phonological criteria, yet in all other respects it quite different from Khmer. Also, at least two of phonological criteria--loss of final *-r and devoic of original initial voiced stops--took place very 1: in Khmer, much later, in fact, than the splits between the various Mon-Khmer languages. The present study points up the fact that lexicostatistics offers the most useful and valid methods for sub-grouping.

Primarily on lexicostatistical grounds, therefore, I suggest that Khmer stands alone as a language isolate. It has its closest ties with the Eastern Mon Khmer-Mon Subfamily. Khmer exerted a strong influence on its neighbors, especially Pearic. This accounts for the high lexicostatistical figures between Khmer and Pearic. For the future, certainly we have reason to hope that a complete reconstruction of Proto-Mon-Khmer will enable us to refine our phonological criteria; and, as more lexical information becomes available, we shall be able to determine the direction of loans. The future will bring the

le hazy picture of Mon-Khmer interrelationships o sharper focus.

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 $^{^2}$ Schmidt, Wilhelm, "Les peuples mon-khmêr, trait nion entre les peuples de l'Asie centrale et de ustronésie," in BEFEO, VII (1907): 213-63, VIII 08): 1-35.

³Schmidt, *op.cit.*, 227-8.

⁴Przyluski, J., "Les langues austroasiatiques," A. Meillet et M. Cohen, Les langues du monde ris: Champion, 1924), 385-403.

⁵Schmidt, Wilhelm, *Die Sprachfamilien und* vachenkreise der Erde (Heidelberg: Carl Winter, 6).

⁶Pinnow, Heinz-Jürgen, *Versuch einer* torischen Lautlehre der Kharia-Sprache (Wiesbaden: rassowitz, 1959).

Prinnow, Heinz-Jürgen, "The Position of the da Languages within the Austro-Asiatic Language aily," in Linguistic Comparison in South East Asia the Pacific, edited by H.L. Shorto (London: Ford, 1963), 140-52.

⁸Bibliographies of Mon-Khmer and Tai Linguistics. apiled by H.L. Shorto, Judith M. Jacob, and E.H.S. amonds (London: Oxford, 1963).

Thomas, David D. and Robert K. Headley, Jr., ore on Mon-Khmer Subgroupings," in Lingua, 25.4 (770): 398-418.

¹⁰ After hearing the papers by Dr. Diffloth and Benjamin at the First International Conference on stroasiatic Linguistics, I would now change this to the standard subfamily."

¹¹However, note Muong pắnh.

 $^{^{12}}$ Khasi actually has the somewhat divergent mula NUM + CLF + ARTICLE + NOUN.

¹³ I suspect that Kuy and Stieng both originally i a system like that of other Katuic and Bahnaric

languages, NUM + CLF + NOUN, but that they have been influenced very strongly by Khmer.

- ¹⁴Pluralizing particle used.
- 15 With titles used as pronouns and with kinship terms.
 - 16 In second person singular.
- 17 For further discussion of Mon-Khmer numeral systems see David Thomas, "South Bahnaric and Other Mon-Khmer Numeral Systems," paper presented at the First International Conference on Austroasiatic Linguistics, January 1973.
 - 18 See Thomas and Headley, op. cit., 407.

