# THE VELAR ANIMAL PREFIX RELIC IN VIETNAM LANGUAGES

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- 3. Sedang animal names with non-final k

#### O. Introduction

Benedict (1972) and Matisoff (1973a.25 (footnote 37), 1973b) have discussed a Tibeto-Burman bound velar animal prefix. It is the purpose of this paper to investigate the possibility that the animal prefix may have been a Southeast Asian areal phenomenon by examining linguistic data from Vietnam. There will be two aspects to this study. Section 1 is an in-depth study of one language, Sedang (a North Bahnaric language of the Mon-Khmer family), to see if a velar component is more frequent in animal names than in the general vocabulary of the language. Section 2 is a look at twenty-one animal terms in 26 different languages of Vietnam to see if there is any evidence for the prefix which such a comparative study might reveal. Section 3 lists all Sedang animal names in which there is a non-final k.

# 1. Animal terminology in Sedang

Many animal names begin with the velar k in Sedang. The possibility that this might be a relic of the hypothesized velar animal prefix is intriguing.<sup>2</sup>

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A folk taxonomy of Sedang animals includes 212 different animal names; of these, 68 are modified by a following adjective to discriminate further 283 animals for a total listing of 427 different animals. Among the 212 different animal names 66 (listed in Section 3 below) have a non-final velar k. Such a high proportion of animal names with non-final k, almost 1 in every 3, is what inspires this study from the outset. Only one in every 5 words in the general vocabulary has a non-final k. See Chart 1. This higher incidence of non-final k in animal names will be compared with the over-all Sedang vocabulary in five further ways to see if it is indeed unusual and thus indicative of a now dead k animal prefix. The author's Sedang-English manuscript dictionary is the basis of the general vocabulary counts included here (cf. Smith 1974a, 1974b).

### Comparison 1: Syllabicity

The maximum word in Sedang has two syllables: a main syllable and an optional preceding "presyllable". One would expect that the remains of an animal prefix might be evidenced in part by a higher proportion of bisyllabic animal names among all animal names than the proportion of bisyllabic words in the overall general Sedang yocabulary which has not typically been derived from affixes. The following count shows that animal names do in fact have proportionately more bisyllabic words than does the overall vocabulary. Such bisyllabic words include those with a presyllable ko- (see Comparison 5 below), a medial k, as well as the non-velar consonants.

### Percentage of words having two syllables:

#### General vocabulary

Presyllable	<u>kô-</u>	455	
Presyllable	plus medial $\underline{k}$	103	
Presyllable	plus medial non- $\underline{k}$	1356	1914
Proportion:	1914/4768, 400/0		
Animal names			
Presyllable	<u>kô</u> -	37	
Presyllable	plus mediał $\underline{k}$	8	
Presyllable	plus medial non- $\underline{k}$	51	96
Proportion:	96/212. 450/0		

	Animal names	General vocabulary
k-	15	261
kh-	1	64
kl-	5	101
kr-	8	101
kô-	37	455
Total	66	982
Proportion	66 212 , 310/o	982 4768 , 210/o

Chart 1. Incidence of non-final  $\underline{k}$ 

### Comparison 2: Initial consonant type

The initial consonant slot of the main syllable in Sedang may be either a single (simple) consonant or a consonant cluster. A relic affix and following consonant could coalesce into a consonant cluster. Thus one would expect that a former animal prefix might be evidenced in part by a higher proportion of consonant clusters in animal names than in the overall Sedang vocabulary. The following count confirms this; animal names have proportionately about 500/o more consonant clusters than the overall vocabulary has. (Comparisons 2, 3, and 4 pertain only to monosyllabic words.)

Percentage of monosyllabic words having consonant cluster:

General vocabulary

946/2854, 330/0

Animal names

44/89 , 4.10/0

### Comparison 3: Initial single consonants

Among monosyllabic words beginning with single consonants, if the hypothesis were true, one might expect a higher proportion of initial k than other consonants—as the prefix may have suppressed other consonants during word contraction pressures. The following count confirms this; animal names have proportionately almost twice as many initial k's in monosyllabic words than the overall vocabulary has.

Percentage of monosyllabic single-consonant-initial words having initial  $\underline{\mathbf{k}}$ :

General vocabulary

158/1910, 8.30/0

Animal names

7/45 , 15.50/0

## Comparison 4: Initial consonant clusters

Among monosyllabic words with an initial consonant cluster, one would expect a higher proportion of clusters with cluster head k than other cluster heads (p, t, b, m, etc.) to evidence the animal prefix as consonants were retained during syllable reduction. The following count indicates that this is in fact true in Sedang. There are about 500/o more k-type consonant clusters in Sedang animal names than throughout the entire Sedang vocabulary.

Percentage of monosyllabic consonant-cluster-initial words having cluster head k:

#### General vocabulary

<u>kl</u> -	73/946,	80/0
<u>kr</u> -	<b>7</b> 5/946,	80/0
<u>kh</u> -	55/946,	60/0
Total <u>k</u> -clusters	203/946,	210/0
Animal names		
<u>kl</u> -	5/44,	110/0
kr-	8/44,	180/0
kh-	1/44,	20/0
Total k-clusters	14/44,	320/0

#### Comparison 5: Presyllables

Among bisyllabic words it would be expected that the animal prefix would cause a greater proportion of ko-presyllables in animal names than occurs in the overall Sedang vocabulary. The following count indicates that this is so. There are more than 600/o more ko-presyllables proportionately in animal names than in the general vocabulary.

### Percentage of bisyllabic words having ko-:

General vocabulary	455/1914,	240/0
Animal names	37/96.	390/0

### Conclusion

The above five comparisons show that a former velar animal prefix is retained in some Sedang animal names, evidenced by a k-skewed phonological pattern; namely, in comparison with the overall Sedang vocabulary, animal names have:

- (1) a greater proportion of bisyllabic words,
- (2) a greater proportion of consonant clusters in monosyllabic words,

- (3) a greater proportion of initial k single consonant; in monosyllabic words.
- in monosyllalic words, and
- (5) a greater proportion of ko- presyllables in bisyllabic words.

The prefix, however, is dead, and to determine which k-item is a relic of the prefix and which is only coincidental will require considerable comparative study.

## 2. Animal terminology in Vietnam languages

Twenty-one animal names in 26 languages of Vietnam<sup>6</sup> are compared in Chart 2. These languages represent each of the three principal language stocks found in Vietnam, including Vietnamtong which, with the Mon-Khmer languages, belongs to the Austroasiatic stock. 7 Sixteen languages are Mon-Khmer, representing the North Bahnaric (7), South Bahnaric (6), and Katuic (3) branches. Six languages represent Austronesian and two languages represent Tai.

Of the twenty-one words compared, eight contain features

relevant to the discussion.

- (a) Word no. 7 'snake': two different etyma are probably included. The Katuic forms each have a k in the presyllable: Brū cusan, Pacon cuxenh, Katu kasanh. This Katuic form is unlike anything in any of the other languages except Vietnamese rin and Maong thanh. (Cf. Mid VN tlan, Mod. VN tran, Chrau klan 'python', Sedang plan 'boa'.) If perchance the Vietnamadong form has the same origin, the Katuic presyllable possibly reflects an animal prefix.
- (b) Word no. 8 'rat': there are five South Bahnaric languages with monosyllabic forms like de, daê, ne, dê, as well as the Tai nu. Throughout the Mon-Khmer languages, however, there is the bisyllabic kône, cunâi, suggesting loss of the affix in one area, but retention in others.
- (c) Word no. 9 'rabbit': with cognates apparently in all language groups, the three consonants t-r-p appear to be basic for this word. Sedang and Bru have a velar initial.
- (d) Word no. 10 'monkey': Cham kra and Haroi kara, both Austronesian, but no cognates elsewhere.
- (e) Word no. 12 'tiger': despite the great diversity of forms among the Mon-Khmer languages the type kla, cula occurs in North Bahnaric and Katuic and the type kliu occurs in South Bahnaric. Mtong has khal. One might not associate these because of the considerable vowel difference except that the Tai Nung form sla plus the animal prefix provides a basis for accounting for them. 9

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LANGU	Halang	chìm	chò	chűr	ier	noda	ka	nèn l	kone	topai	dôk	jooj	bě kliê	kopno	rôk	rubih	nok	ya monguot	măt mèng	chì	muoih	ruoi
HNARI	Cua	sêèp	os	suul	lii	ada	ka	volh	kanê	<b>!</b>	talok	jooy	karaq	kapiiu	po po	kðt	óok	bô kaap	pi rawaay	say	kajou	rooy
NORTHB	Bahnar	зеш	kŏ	những	'yĕr	bip	ka	'bih	kone	tôpai	• dŏk	juěi	ki ěk	кфрб	romo	rôih	hodrông	•	wai	si	moih, sôměch	roi
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		-	2.	m	4	۶,	9	7.	ж •	9.	0	Ξ.	12.	73.	14.	15.	16.	17.	18.	19.	20.	21.
	NORTH BAHNARIC LANGUAGE	Vietna- mese Mtdong Bahnar Cua Halang Hre	Vietna-       NORTH BAHNARIC LANGUAGE         ish       mese       Mtòng       Bahnar       Cua       Halang       Hre         chim       chim       sem       chìm       chìm       chìm       chìm       chìm	vietna-       NORTHBAHNARIC LANGUAGE         ish       mese       Mtòng       Bahnar       Cua       Halang       Hre         chim       chim       sem       sêèp       chìm       chìm       chìm       chim	Vietna-       NORTHBAHNARIC LANGUAGE         1ish       mese       Mtòng       Bahnar       Cua       Halang       Hre         d       chim       sem       sêèp       chìm       chìm       chìm         chó       chó       kố       so       chô       coq         heo       cái       những       suul       chữr       chùa	lish         mese         Mtòng         Bahnar         Cua         Halang         Hre           d         chim         chim         sem         seèp         chìm         chùm         chù	ish        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rán         thán         'bih         volh         volh         bòh         bùh         bùh           rabbit         thổ         'tópai         thópai         rabèn         ca         ca           chuột         thá         thác         thópai         thópai         bó         ca         ca           cow         bó         &lt;</td><td>English         Mtông         Bahnar         Cua         Halang         Hre           bird         chím         sem         seèp         chím         chím           dog         chó         chó         kổ         so         chím         chím           pig         chó         chó         chó         coq           pig         chó         chó         chúm         chúm         chúm           chícken         chó         chó         những         suul         chúm         chúm           chícken         chó         ca         'yệr         hòda         vht         chúm           chícken         cá         cá         ka         ka         ka         ca           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      rab         volh         bèh         bìh         ca           monkey         khì         róba         khôc         bòh         bùh           rabbit         thỏ         rab         khôc         bòh         bòh         bòh           cow         bỏ         róh         róh         róh         rab	English         mese         Mtòng         Bahnar         Cua         Halang         Hre           bird         chím         chím         sem         seèp         chím         chím           big         chó         chó         kó         so         chím         chím           pig         chó         chí         những         suul         chím         chím           chícken         gá         ca         'yér         iil         ier         chùa           chícken         cá         cá         ka         ka         chúa         chùa           chícken         cá         cá         ca         chím         chúa         chùa         chùa           chícken         cá         cá         ka         ka 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			H H H H I N O W				
		NORTH BA	BAHNARIC LANGUAGES		SOUTH	SOUTH BAHNARIC LANGUAGES	NGUAGES
	English	Jeh	Rengao	Sedang	Chrau Jro	Koho Chil	Koho Lach
-	bird	chĭm	chìm	chêm	súm	sêm	sêm
2	dog	chou	cho	ch6	20	• 000	Sao
i 'n	pig	chồl	chur	chu	sŭr	str	sor
4.	chicken	ial	ir	·н	iĕr	iăr	iêr
. r.	duck	pět	hora	pèap	da	ada	•da
9	fish	ka	ka	ká	ca	ka	ka
7	snake	bàyh	bàyh	pah	víh	beh	рфз
80	rat	kanei	koni	konái	cane	- de	daê
6	rabbit	tapai	tôpai	kopái	sipai	ropai	torpai
, <del>0</del>	monkey	dŏk	dðk	to	dôq	meně	d o
11.	deer	juai	jìl, joy	ch6i	jun	uni	jun
12.	tiger	mom, nq	kla	klá	yau	kliu, pôm	mod
13.	buffalo	kapiau	kepd	kopôu	gapu	ropu(h)	ropu
14.	COW	rŏk	rômo	ro	ρο	konrö	konrö
15.	elephant	ruayh	ruyh	rui	rawĕh	roih	ruðyh
16.	WOIT	dák tuy	ok	hodrong	vrán	răn	tu
17.	scorpion	kajip	hogriáng	kechêp	sidui	dieng	1 :
18.	spider	ping piang	từng pèng	bek peng	wal	Bunq	bong
19.	louse	kachei	chì	chai	si	9	3 (a) (b)
20.	mosqui to	nhèu nhèu	jì jrò, hměng	tritrôu	moih	tăl ,	somet
21.	fly	roi	roi	ròi	rawày	somác	sômać

		SOUTH	BANARIC	LAHGUAGES	KA	KATUIC LANGUAGES	
	English	Koho Sre	Knong	Stieng	Ъгй	Katu	Pacón
	bi rd	sem sem	sim	chòm	chém	achim	achéų
•	dog	SO	SO	pi sô	acho	bnue	acho
	pig	sur	súr	sči.	alic	adaak	alic
•	chicken	iar	yyār	ièr	ntruoi	attach	a-ŏiq, ntruai
. •	duck	ada	kik	da	atia	ada	ata
•	fish	ka	ka	в С	slaq	kadóóng	boaiq
	snake	soq	beh	bêh	cusan	kasanh	cuxenh
•	rat	de	ne	de de	cunâi	song dong	abil
	rabbit	dorpai	rpay	pi dam seray	catai	tho	ayŏn
	monkey	ď	dôk	dòòc	tamér	vook	adoaik
•	deer	uhi	jun	uni	yět	chagaang	cune röng
•	tiger	kliu	yaw	cla	cula	agòòt	r-ai
	buffalo	rpu	rpu	corpt	tariac	tariiq	tiriaç
•	cow	konro	ndròk	gò	ntroóg	oq	carróq
	elephant	roas	rweh	ruòs	achiang	kanpoq	achiang
	worm	ran	bržn	prun	ıŭi	gói	tulói
	scorpion	diang	ndár wong	<b>₫0−0</b>	1	kahip	1
	spider	pang	wil	beeng	apiang	daang	apiang
	louse	sai	si	ຣາ	ntrén	tarank, sobei	nchě
	mosquito	somac	máč	Som	rayoong	rayong	radyong
	fly	rhài	rhwáy	rudi	ruai	moih	riroi
	-				:		4 .

Chart 2, continued

		AUST	RONE	SIAN	LANG	AGES	
	English	Chem	Chru	Haroi	Jorai	Radê	Roglai
	bird	chim	chim	chêm	čim	čím .	chip
•	dog	athau	asow	axan	язас	asâo	asou
	pig	pabui	p& buy	paphui	po pni	ŭn	un, vavui
•	chicken	manúk	mnŭ	manud	monŭ	mnŭ	manud
	duck	ada	ada	phľt	bip	bip	ada
	fish	ikan	akản	akan	akan	akan	icat
	snake	ala	ala	ајфа	ala	ala	ula
	rat	takuh	tokyh	chakôh	tokuih	k'kuih	tucup
	rabbit	tapai	torpay	kapài	pai	pai	tarapai
0	monkey	kra	kra	kara	kra	kra	cra
	deer	ritha	rðsa	laxa	rôsa	hlô rang	rusa
8	tiger	rimong	kô sỗ	lamung	rommg	èmông	lumong
ň	buffalo	kabao	kabàw	kaphtan	kebao	kbao	cuvôu
4.	¥00	limo	10mo	lamo	romo	èпд	lamo
. 7.	elephant	liman	16mdn	lamtan	kman	eman	luman
9	WOL	rining	lenang	lanang	ronang	enăng	lanac
7.	scorpion	jang, hadiêng	1	akhuat	guát	aguăt	udiac
8	spider	gal-mang	gunlq	vaai	wang wil	wak wai	culuma
6	louse	katau	kataw	katau	ktâo	ktåo,	cutou
50.	mosauito	bimSk	jomŭ	hangan	akeč	kěď, bloh	jamoq
	1 - (4	.,	TAWAT	rdai	rugi	èruòi	ruai

	ì	TAI	LANGUAGES
	English	Nùng	Black Tai
1.	bird	tú nŏc	nộc
2.	dog	tú má	ma
3.	pig	tú mu	mu
4.	chicken	tú cày	cáy
5.	duck	tú pét	. pét
6.	fish	tú pá	pa
7.	snake	tú ngu	'ngú
8.	rat	tú nu	nu
9.	rabbit	tú thổ	thổ
10.	monkey	tú ling	'lính
11.	deer	tú cang	quang
12.	tiger	tú slá	sta
13.	buffalo	tú vai	'quái
14.	cow	tú mò	'ngúa
15.	elephant	tú sáng	chang
16.	worm	tú nón nhàng	låôn
17.	scorpion	tú kim pú	·
18.	spider	to chi hau	sing sac
19.	louse	tú thầu, mền	hau
20.	mosquito	tú nhung	'nhung
21.	fly	tú meng ám	'méng 'nguồn

Chart 2, continued

- (f) Word no. 13 'buffalo': most of the Bahnaric languages (Proto-North-Bahnaric \*kapð, Smith (1972) word #523) and all of the Austronesian languages have an initial velar. Headley (1973) is unable to determine where the word with the consonants k-r-p comes from; cf. PMP \*kalabaw. Gregerson has informally suggested a derivation of kō-'animal prefix' plus something like rômo 'cow' (see (g) below) from which subsequent loss of either the k or r and development of a bilabial stop from the nasal would account for all but the Vietnamtông, Katuic, and Tai forms.
- (g) Word no. 14 'cow': the Kôho forms kônro are suspicious in light of the other forms in the area which exhibit an initial 1/r and/or a subsequent bilabial. The Kôho form may be an animal prefix kô- plus a metathesized bilabial nasal assimilated to the r. Cf. Malay lembu.
- (h) Word no. 19 'louse': (1) Jeh kachei is the only bisyllabic form, contrasting with all other Bahnaric and Vietnamtong monosyllabic forms <a href="mailto:chi/si/chai">chi/si/chai</a>. The unstressed presyllables in the bisyllabic <a href="mailto:languages">languages</a> of Vietnam are lost or altered so easily that it is difficult to determine whether this lone bisyllabic form may be a relic of the animal prefix. (2) The Austronesian forms each have an initial k plus t as in <a href="mailto:ktao/cutôu">ktao/cutôu</a>; the Tai Nung form <a href="mailto:thau suggests">thau suggests</a> a correspondence (even the vowel is similar) which lacks only the initial k; cf. PMP \*kutuh.

The above possible instances of a relic k animal prefix are fascinating and merit attention as more data becomes available and comparative studies progress.

Contemporary k-initial forms that have a meaning of 'animal' or 'creature' may also be related to, or be a possible source for, the velar animal prefix. Note:

kon 'child', in Proto-North-Bahnaric (Smith, 1972), as well as in South Bahnaric, Katuic (except Facoh) languages, Khmer, Vietnamese, Maong, Pear, Kuy, Mal. Lawa. etc.

khong 'wild beast', in Rengao

Thomas (1969.105) reports that Chrau has a sipresyllable 10 that appears in quite a few animal names but
is not recognized by native speakers as an affix: sipai
'rabbit', sima 'porcupine', silêng 'swallow', sidui 'scorpion',
sicach 'tick', sicau 'bear', sikway 'mouse deer', sima var
'flying squirrel', simpuq ~ chappuq 'grasshopper', sipiq
'weasel'.

It has been noted that body parts in the Vietnam Mon-Khmer languages likewise have a high incidence of velars—possibly a fruitful extention of the present topic.

# 3. Sedang animal names with non-final k

# One syllable names, initial $\underline{k}$

1.	ká	fish <sup>11</sup> ; also used wa	ith:
		pah ká	type of snake
		kðtárm kí	type of arm
		kléang ká	flom-eating a .wk
2.	kาน	type of fish; also	used with:
		ket kau	type of fro,
		nliving and	type of boo
3.	ket	frog <sup>12</sup>	
4.	kei	mountain goat	
5.	keð	type of bird	
6.	koa	turtle ; also used	with:
		ket kon	type of from
7.	kón	spider monkey; also	uged with:
		pek peng kén	tarantula
	Cf. kiki,	kikí below.	

## One syllable names, initial kl

8.	klá	tiger 14; also used with:
		klá rói large housefly
9.	klái	type of squirrel; also used with:
		kôchiak klái small for
10.	kléang	eagles and hawks <sup>15</sup>
11.	klián	type of leech
12.	xi kliu	small blue grasshopper

### One syllable names, initial kh

13. khia tea small winged creature

# One syllable names, initial kr

14.	krei	chipmunk
15.	krei	type of grasshopper
16.	krek kreng	long-beaked bird

17.	kreng	mouse deer
18.	•	type of snail
19.	krti	wild cow
20.	krŭ	vulture
21.	krua	type of cricket
	Cf. kukreh	
Two	syllable nam	nes, initial presyllable kô-
22.		blue bird
23.	<del>-</del>	very small rat
24.	kôchep	centipede 16
25.		fox
26.		small bird with black legs
	kôdéa	type of worm
28.	kôd <b>í</b>	type of ant
29.	kôdie	type of eel
30.	kodrua	honey bee 17
31.	ko'dú	small flying squirrel
32.	ko-èak	type of tumblebug
33.	kôjián	cricket
34.	kiki	tick
35.	kikí	shell-less smail; also used with
		ket kiki type of frog
36.	kukreh	red moth
37.	kôlea	summer fly 18
38.	kõlit	type of big bird
39.	kôlit	fly-like insect
40.	kôméa	Hoopoe
41.	kômú	termite
42.	kômua	type of termite
43.	kônái	rat <sup>19</sup>
44.	kônau	type of worm
45.	kônot	small rat
46.	kôpái	rabbit
47.	kopáu	snail
48.	kôpé	small buffalo

49.	<b>kô</b> pou	water buffalo

50. kôtéam crab<sup>20</sup>

51. kôtei gray bird

52. kôte phái small winged creature

53. kôtôn bat

54. kôtóu type of porcupine

55. köxiáng tea type of small lizard

56. kôxôi squirrel

57. kôxôm type of small lizard<sup>21</sup>

58. kôxông small 4-legged jungle animal

# Two syllable names, medial $\underline{k}$

59.	rôkái	wild pig, boar <sup>22</sup>
60.	rôkeh	type of eel
61.	rôkie	small_cockatoo
62.	rôkóu	bear <sup>23</sup>
63.	tôkai	large red and black tick
64.	tôkén	large red ant
65.	tôko	type of winged ant
66.	tôkua	chamelion

#### FOOTNOTES

- The inspiration for this paper came from Professor Matisoff during his course "Southeast Asia as a Linguistic Area", 1973 LSA Linguistic Institute at the University of Michigan. The Matisoff (1973a) reference refers to his talk at the First International Conference on Austroasiatic Linguistics, Honolulu, January 1973, in which he discussed the probable Mon-Khmer source for the velar "animal prefix" in Lolo-Burmese.
- <sup>2</sup>Another statistical study of Sedang phonology, Smith (1969a), shows that Sedang personal names have a unique phonemic distribution system.
- The long list of animal names was obtained from two Sedang men, Hmdu and Bé, who ordered all the terms into a folk-taxonomy of animals.
- There is a minor ko- affix in Sedang that occurs in loan words from Vietnamese and probably deriving from the Vietnamese classifier cai for things. These occur with objects, not animals. CT. Smith (1969b.126-7).
- The low incidence of  $\underline{kh}$  in animal names does not detract from, but rather supports the animal prefix hypothesis, inasmuch as comparative studies show that  $\underline{kh}$  never comes from a \*ka- plus \*h; whereas \*ka- plus \*l/r sometimes becomes Sedang  $\underline{kl/kr}$  (Smith, 1972).
- The data is taken from word lists mimeographed by the Summer Institute of Linguistics, Vietnam Branch. Though each is an identical list of 281 words, only 21 of the words are animal names. These animal names are word numbers 43, 52-65, 67-72 on the word lists. The Midng data, which is not mimeographed and has a different set of words, was supplied by David Thomas. Different spelling conventions have not been standardized here.
- 7 For this paper I consider the Austronesian and Tai as separate language stocks.
- As the great master of the Southeast Asian jungles, the tiger is sometimes given honorific names as 'grandfather', 'ghost', etc. Cf. Bahnar, Jeh.
- <sup>9</sup>Furthermore, note (k-)la Burmese-Lolo (Benedict, 1972). This word has very far reaching roots.
- Thomas (1969) gives the presyllable as sa-, but more recently David Thomas has cited it for me as si-.

- 11 Cf. Smith (1972), word #540 Proto-North-Bahnaric \*ka.
- 12Cf. word #205 PNB \*kit, op. cit.
- 13cf. word #202 PNB \*kop, op. cit.
- 14Cf. word #546 PNB \*kla, op. cit.; also see Section 2(e) here.
- 15Cf. word #156 PNB \*klang, op. cit.; also cf. lan Tibeto-Burman 'eagle, falcon, hawk', Benedict (1972).
- 16Cf. word #184 PNB \*gaqjip and Proto-Jeh-Halang \*gajip. The voiced initial g presumably precludes this as an animal prefixed word, although note Chrau (South Bahnaric) ca-ap.
- 17Cf. word #236 PNB \*gadrot and Proto-Jeh-Haláng \*gadrot.
  The voiced initial g presumably precludes this as an animal prefixed word, although note Chrau (South Bahnaric) candrot.
- 18Cf. word #196 PNB \*kalap, op. cit.
- 19Cf. word #527 PNB \*kane, op. cit.
- 20cf. word #41 PNB \*katam, op. cit.
- <sup>21</sup>Cf. word #20 PNB \*kasom, op. cit.
- <sup>22</sup>Cf. word #532 PNB \*sake, op. cit.
- <sup>23</sup>Cf. Headley (1973), section 1.6, Austroasiatic origin: all forms except Vietnamese gau having the velar element as the second of two consonants.

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