Chapter 3

Animal nomenclature in Jinghpaw*

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[要旨/ABSTRACT]

ジンポー語は、シナ・チベット語族チベット・ビルマ語派に属する言語であ り、北ビルマ、北東インド、西南中国などに国境を越えて分布する。本稿では、 ジンポー語の動物名を音韻、形態、意味、言語接触の観点から分析し、動物名 について先行研究で報告される地域性と普遍性がこの言語にも観察されること を報告する。音韻的には、鳥類の名称に擬音語が多用される。いくつかの動物 名は音韻的弱化により語源が不透明になりつつある。形態的には、複合と接辞 付加が動物語形成の主要な手段である。複合による動物名は N-N または N-V の 語構成を示す。動物接頭辞は祖語にさかのぼる古形を示す。意味的に、外見お よび生息地に基づく命名が高い生産性を示す。分類学上の界を越える命名法も 観察される。言語接触により、シャン語、ビルマ語、漢語由来の動物名がジン ポー語にもたらされた。

1. Introduction

Jinghpaw is a Tibeto-Burman (TB) language of the Sino-Tibetan language family spoken throughout the Indo-Burma-China borderlands. It is one of the languages spoken by the Kachin people, one of the major ethnic minority groups of Burma, who are linguistically diverse people speaking several mutually unintelligible Tibeto-Burman languages, including Jinghpaw, Zaiwa, Lhaovo, Lacid, Ngochang, Rawang, etc. In this world of multiple languages, Jinghpaw serves as a lingua franca. Although their situation has been changing, in general the Kachin are highlanders occupying hills and mountains where they practice slash and burn agriculture in contrast to the Shan, their neighbors who are lowlanders occupying river valleys where they practice rice cultivation in irrigated fields (Leach 1954: 1).

This paper, as a preliminary step in the studies of the bestiary of northern Burma and adjacent areas of China and India, explores Jinghpaw animal nomenclature in terms of phonology (§ 2), morphology (§ 3), semantics (§ 4), and language contact (§ 5), with an appendix providing a list of about 350 animal names in the language. Jinghpaw animal nomenclature is of interest by illustrating areal and universal issues of animal names (zoonyms) described by Matisoff (2011) for English, Chinese, Lahu, Thai, Japanese, and other languages. The data presented in this paper were collected from Hanson (1906) and Maran (1978) as well as from my own fieldwork in northern Burma.

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2. Phonology

2.1 Onomatopoeias

Onomatopoetic or mimetic names are often found for those animals that make the sound. The Jinghpaw word for cat, for example, is *2nyaw*, which apparently has its source in the sound cats make, as with other neighboring languages (e.g., Chinese $m\bar{a}o$ and Thai $m\varepsilon\varepsilon w$). The Tokay gecko $taw t\acute{e}^2$ is also so named in Jinghpaw because of the sound it makes, as in many other languages of Southeast Asia.

(1) Names for the	Tokay gecko
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Jinghpaw	taw té?	Sino-Tibetan
Burmese	tau? tê	Sino-Tibetan
Thai	túk kɛɛ	Tai-Kadai
Shan	tok ⁵ tε ⁵	Tai-Kadai
Khmer	tək kae	Austroasiatic
Vietnamese	tắc kè	Austroasiatic
Indonesian	tokék	Austronesian

Matisoff (2011: 665) observes that this sort of naming is especially common in bird and insect names rather than mammal names in Lahu and other languages, providing names for species of cicada in Japanese, such as *minmin-zemi* 'Oncotympana maculaticollis,' chitchi-zemi 'Cicadetta radiator,' niinii-zemi 'Platypleura kaempferi,' tsukutsuku-booshi 'Meimuna opalifera' (also see Badenoch in this volume). This also holds for Jinghpaw bird names. The word for crow, for example, is 2ù kha, where the first element expresses 'bird' and the second has its origin in the sound made by crows. Another word for crow is kəkha which involves reduplication of the calling of crows, where the first syllable is deaspirated due to a widespread phonological process of deaspiration in the language (Kurabe 2018). The bird sumpyi 2ù 'a species of bird, lit. flute bird' is also named in relation to the sound. Other Jinghpaw bird names of onomatopoeic origin include:¹

(2) Onomatopoeic bird names

a. khrù dù	'oriental turtle dove'
b. dù dù dì dì	'a species of owl'
c. té té ~ té té dù	'red-wattled lapwing'
d. kətík kədà dà	'Chinese francolin'
e. púk dun ~ kúk dun	'cuckoo'
f. bùk gəluy	'a species of nighthawk' ²
g. ?ù gum	'mountain imperial pigeon whose sound is um um
	ngum ngum'
h. ?ù cìp	'a species of bird whose sound is <i>ship ship</i> '
i. ?ù ték	'a species of bird whose sound is <i>tek tek tek</i> '

2.2 Phonological reduction

A great number of animal names in the world's languages must of necessity be

¹ The bird sound indicated is taken from Njai (undated).

² So named because of the the sound it makes (Maran 1978).

polymorphemic due to the capacity of human memory (Matisoff 2011). One of the major strategies of animal name formation in Jinghpaw and neighboring languages, as discussed in 3.2, is compounding (e.g., *paŋlay-khrùdù* 'seagull, lit. sea dove,' *Pù-caro* 'brown shrike, lit. tiger bird,' *yú-samyít* 'shrew mouse, lit. needle rat'). A once-transparent compound, however, can become semantically opaque through morphosemantic change, as in *dandelion* from French *dent de lion* 'lion's tooth' (ibid., p.673).

Similar morphosemantic opacification is also found throughout Jinghpaw animal nomenclature due to the fact that Jinghpaw compounds are susceptible to phonological reduction. One of the two major reduction processes in compounding is disyllabization, where light syllables of polysyllabic words are deleted when the resulting structure is phonologically longer than disyllabic (Hanson 1906, Dai and Wu 1995: 128-30). This process makes the resulting compound disyllabic (e.g., *lago-leŋ* 'lit. foot-wheel' > *go-leŋ* 'bicycle,' *paloŋ-latá?* 'lit. shirt-hand' > *lòŋ-tá?* 'sleeves'). This deletion process is related to the fact that almost all monomorphemic words in Jinghpaw are monosyllabic or disyllabic, and words longer than disyllabic are extremely rare. Animal name roots whose light syllables usually drop in compounding include: *lapu* 'snake,' *maguy* 'elephant,' *caro* 'tiger,' *khatô* 'bulbul,' *lagàt* 'bee,' etc. Consider:

(3) Disyllabization

5			
a. ləpu-mùt	>	pu-mùt	'ribbon snake, lit. snake-dark'
b. ləpu-tsìt	>	pu-tsìt	'green snake, lit. snake-green'
c. məguy-là	>	gùy-là	'male elephant, lit. elephant-male'
d. məguy-lám	>	gùy-lám	'feral elephant, lit. elephant-wander'
e. cəro(ŋ)-tèŋ	>	ròŋ-tèŋ	'leopard, lit. tiger-spotted'
f. cəro(ŋ)-mùt	>	ròŋ-caŋ	'clouded tiger, lit. tiger-dark'
g. khətô-tsìt	>	tò-tsìt	'Finch-billed bulbul, lit. bulbul-green'
h. khətô-ràw	>	tò-ràw	'white-headed bulbul, lit. bulbul-together'
i. ləgàt-yúp	>	gàt-yúp	'nocturnal species of bee, lit. bee-sleep'
j. ləgàt-may	>	gàt-may	'small kind of bee with no poison sting, lit.
			bee-good'

Another reduction process often observed in compounding is sesquisyllabization, where the first syllable of a fully disyllabic word is reduced to a light syllable due to the predominance of the iambic pattern of Jinghpaw prosody (e.g., ginsúp > gosúp 'play,' cinnyen > conyen 'lizard,' ninwa > nwa 'axe'). When applied to a disyllabic compound, as discussed by Matisoff (1989:163-4) for other TB languages, the process of sesquisyllabization obscures the etymology of the compound. To illustrate this, consider the compound liy-diy (lit. juicy-sweet) 'orange,' which is often reduced to lodiy in colloquial speech. This process, together with the ''disyllabization'' illustrated above further obscures the etymology of given compounds. Consider the word boren 'dragon,' derived from lopu-ren (lit. snakelong), wona 'holes in axe,' derived from ninwa-na (lit. axe-ear), and khodún 'threshold,' derived from cinkha-dún (lit. door-surface).

(4) Derivation of barèn 'd	lragon,' wən	<i>a</i> 'holes in	axe,' and <i>khədún</i> 'threshold'
Underlying	ləpu-rèn	nìŋwa-na	ciŋkha-dún
Disyllabization	pu-rèn	wa-na	kha-dún
Sesquisyllabization	pərèn	wəna	khədún
Lenition	bərèn		
Surface	bərèn	wəna	khədún

Animal-related words involving these processes include:

(5) Disyllabization + Sesquisyllabization

a. ləpu-nuy	>	pənuy	'boa, lit. snake-soft'
b. ləpu-mùt	>	pəmùt	'ribbon snake, lit. snake-dark'
c. ləpu-nen	>	pənen	'mucus secreted by a snake, lit. snake-?'
d. dùmsi-brùm	>	səbrùm	'porcupine spine, lit. porcupine-spine'
e. dùmsi-jàp	>	səjàp	'porcupine odor, lit. porcupine-pungent'

3. Morphology

3.1 Affixation

The Proto-Tibeto-Burman (PTB) animal prefix *s-, which is ultimately connected to the PTB etymon *sya 'animal, flesh, body' (Benedict 1972: 106-8, Matisoff 2003: 102), is widely attested across modern TB languages.³ The prefix is reflected by various forms in modern languages, as in Lushai *sa-khi* 'barking deer,' Nung *səwi* 'bear,' Miri *si-be* 'monkey,' Chokri Naga $ti^3 \epsilon i^{44}$ 'dog,' and WT *sbrul* 'snake' (Matisoff 2003: 97-8, 102).

The prefix appears in a number of words in Jinghpaw fauna lexicon, where the prefix is reflected by $c\partial$ -, $j\partial$ -, and $c\partial$ -, conditioned by a deaspiration rule (see Kurabe 2018). The zoonym $c\partial ro(\eta)$ 'tiger,' for example, illustrates the prefix although it is no longer analyzable for modern speakers. Only a comparison with related languages, such as Written Burmese (WB) *kron* 'cat' and PTB *s/k-ron 'cat, wildcat' reveals its etymology. The zoonym $c\partial ram$ 'otter,' a widespread root in TB (see Matisoff 2010 for 'otter' in TB and Mon-Khmer), also involves the animal prefix. The following animal names illustrate Jinghpaw zoonyms with the prefix.

(6) Reflexes of PTB *s-

a. Mammals

 $c = \sigma(\eta)$ 'tiger,' c = ram 'otter,' c = ru 'mole,' c = ra' 'gibbon,' s = woy 'pangolin,' $s = na\eta$ 'wild boar,' $s = g\hat{u}$ 'sheep,' $j = khyi \sim c = khyi$ 'barking deer,' $j = khyon \sim c = khyon$ 'wolf,' $c = kh\hat{a}y$ 'giant squirrel,' etc.

b. Arthropods

cəkhân 'crab,' cəkrát 'body louse,' cəlíp 'cockroach,' cəkrép 'bedbug,' etc.

3.2 Compounding

Compounding, as noted in 2.2 above, is one of the most productive morphological process of animal name formation in Jinghpaw and neighboring

³ PTB etyma are cited from Matisoff (2003).

languages. Examples from Matisoff (2011) include: Chinese 松鼠 *sōŋ-shǔ* 'squirrel, lit. pine rat,' 熊猫 *xióng-māo* 'giant panda, lit. bear cat,' 猫头鹰 *māo-tóu-yīng* 'owl, lit. cat-headed eagle'; Lahu *yì-phî* 'otter, lit. water dog,' *5-qā=ŋâ?* 'mynah, lit. buffalo bird, ' and *mò?-yì?* 'clouded tiger, lit. monkey leopard.'

Jinghpaw compounds can be classified in terms of their internal structure. Only the major word classes, nouns and verbs, are productively involved in compounding. All the logically possible combinations of nouns and verbs (i.e., N-N, N-V, V-N, V-V) are attested (e.g., *ciŋnâm-pràt* 'freckles, lit. sesame-mole' *jùm-dùy* 'sugar, lit. salt-sweet' *lù2-khà2* 'drinking water, lit. drink-water,' *ce-nà* 'understand, lit. know-hear'). Observed compound zoonyms always have the structure N-N or N-V. Compounding resulting in animal names always yield nouns. Examples:

(7) N-N

(8)

	a. mú?-cəkhán b. ńsín-gəlaŋ c. dùmbàw-cù? d. khà?-ṅgùy e. cù?-cìt	thunder-crab darkness-eagle rhinoceros-frog water-dog frog-rash	 'water scorpion' 'nighthawk' 'a large species of frog' 'mole-cricket' 'toad'
)	N-V		
	a. ?ù-tók	bird-chisel	'woodpecker'
	b. gàt-yúp	bee-sleep	'a nocturnal species of bee, lit. sleeping bee'
	c. cù?-gòk	frog-roar	'a species of frog'
	d. pu-tsìt	snake-green	'arboreal green snake'
	e. gùy-wúŋ	dog-bushy	'shaggy-haired Chinese dog'

There are also many compounds consisting of three roots in Jinghpaw. The vast majority of them exhibits the structure [[N-V]-N] (e.g., *ləmù-dèp-tsiŋ* 'a kind of fast-growing grass that grows during the rainy season, lit. sky-reach-grass'). Some examples from our limited data are given below. Their structures are [[N-V]-N], as in (9a) to (9c), or [N-[N-V]], as in (9d).

(9) Compounds consisting of three roots

	,	
a. nìŋwá?-phay-?ù	ax-carry-bird	'pelican'
b. ŋa-rem-?ù	cattle-tend-bird	'black-collared starling'
c. wà?-phay-gəlaŋ	pig-carry-eagle	'large eagle'
d. ŋá-zàybrù-thù	fish-sand-dig	'small silversides sucker of the
		family Atherinidae'

Compound zoonyms are usually endocentric, where the head-noun is a hypernym, and the modifier gives a specific meaning to the head. In terms of the output categories, N-V zoonyms are always left-headed, as illustrated by (8) above. The compound \dot{u} -*tók* 'woodpecker' thus expresses a kind of bird. On the other hand, N-N zoonyms are either right-headed or left-headed. Compare:

(10) Modifier-Head

gold-fish	'goldfish'
hornbill-bird	'great hornbill'
sea-dove	'seagull'
silk-worm	'silkworm'
ship-dog	'any kind of long-haired foreign dog'
	hornbill-bird sea-dove silk-worm

(11) Head-Modifier

fish-tiger	'goonch'
bird-tiger	'brown shrike'
rat-needle	'shrew mouse'
fish-gar	'gar fish'
bird-grackle	'grackle'
	bird-tiger rat-needle fish-gar

A species that has a simple name in one language may have a compound name in another. For example, while English *land leech* and *water leech* are hyponyms of *leech*, TB languages tend to have separate simple words for them with no hypernym, derived from PTB *k-r-p^wat 'land leech' and *m-li:t 'water leech' (Matisoff 2011: 657). Burmese thus has a distinction between *cu2* 'land leech' and *hmy5* 'water leech.' Jinghpaw, however, appears to have lost the distinction, having a hypernym *wòt* 'leech.' The English distinction between *pig* and *boar* is lexically encoded using a compound in Jinghpaw (i.e., *wà2* 'pig' and *wà2-dù* 'boar'). English *cat* and *wild cat*, on the other hand, are treated independently in Jinghpaw, as in *2nyaw* 'cat' and *khan* 'wild cat.'

4. Semantics

4.1 Locational/habitational

This type of zoonyms is based on the preferred habitats of animals. English examples from Matisoff (2011: 661-2) include: *tree shrew, mountain lion, river rat, sea horse,* etc. This category is semantically very productive in Jinghpaw animal nomenclature. The frog $k \partial w \dot{a} - c \dot{u}^2$ 'a species of frog, lit. bamboo frog' is so called because it is often found in bamboo, and the bird *ya-rem-?ù* 'black-collared starling, lit. bird that looks after cattle' because it is often found on the backs of cattle. Other examples include:

(12) Locational/habitational

,		
a. nam-?ù	forest-bird	'jungle fowl'
b. khà?-?ù	water-bird	'little egret'
c. paŋlay-khrùdù	sea-dove	'seagull'
d. paŋlay-khaypyék	sea-duck	'penguin'
e. ńsín-gəlaŋ	darkness-eagle	'nighthawk'
f. wà?-khəluy	pig-flea	'flea'
g. gùy-tsí?	dog-louse	'louse'
h. gá-gùy	land-dog	'fox, racoon dog'
i. khà?-cəlíp	water-cockroach	'giant water bug'
j. ńtâ dìŋsiŋ	house-lizard	'house lizard'

4.2 Appearance

Color, shape, and size are often employed to characterize animal and plant nomenclature. Matisoff (2011: 662-4) provides English examples such as *bluefin tuna, red-vented bulbul, eggplant,* etc. This semantic category is also very productive in Jinghpaw animal nomenclature. The snake *pu-mùt* 'ribbon snake, lit. green snake' is so called in terms of its color, the bird *khrù-jì* 'red turtle dove, lit. small dove' in terms of its size, and *cəgan-mətî* 'a small species of mushroom, the cap of which is star-shaped, lit. star mushroom' in terms of its shape. Other relevant animal names include:

(13) Appearance of one of its features

TT		
a. woy-khyeŋ	monkey-red	'red-tipped pig-tailed monkey'
b. tò-tsìt	bulbul-green	'Finch-billed bulbul'
c. ŋá-caŋ	fish-black	'snakehead'
d. pu-tsìt	snake-green	'arboreal green snake'
e. gùmphrò-ŋá	silver-fish	'white goldfish'
f. ròŋ-tèŋ	tiger-spotted	'leopard'
g. ròŋ-bà	tiger-big	'largest kind of tiger'
h. laŋ-ji	eagle-small	'Pariah Kite'
	-	

Animal names may also be characterized by the appearance of features of other objects resembling or associated with the animal. English examples from Matisoff (2011: 662-4) include: *banana slug, crowfoot grass, hog-nosed badger, kidney bean, blood orange, swordfish, bracket-tailed drongo,* etc. Jinghpaw zoonyms exemplifying this category include:

(14) Appearance of features of other objects

a. dùmbàw-cù?	rhinoceros-frog	'a large species of frog'
b. yú-səmyít	rat-needle	'shrew mouse, lit. needle rat'
c. ŋá-cəro	fish-tiger	'goonch, lit. tiger fish'
d. ?ù-cəro	bird-tiger	'brown shrike, lit. tiger bird'
e. woy-cəro	monkey-tiger	'probably clouded leopard'
f. mú?-?ù	thunder-bird	'hoopoe'

4.3 Intra- and inter-kingdom associations

Animal or plant names are sometimes modified by other animal or plant names. Matisoff (2011: 668-71) classifies this kind of intra- and inter-kingdom associations into the following four subtypes, where *florafloric* and *faunafloric* types are plant names (phytonyms) and *faunafaunic* and *florafaunic* are zoonyms. The *faunafloric* and *faunafaunic* are semantically more productive than *florafloric* and *florafaunic* in general.

(15) Intra- and inter-kingdom associations

Types	Modifie	r Head	Examples
florafloric	plant	plant	ginger lily, lemon grass, rose-apple
faunafloric	animal	plant	tiger lily, crab grass, butterfly pea
faunafaunic	animal	animal	zebra fish, crab beetle, mouse deer

florafaunic plant animal

fruit bat, banana slug, chestnut bunting

Our data illustrating *faunafloric, faunafaunic* and *florafloric* compounds in Jinghpaw are given below:

	0	0 F	
Faunafaunic	dùmbàw-cù?	rhinoceros-frog	'a large species of frog'
Faunafaunic	wà?-khəluy	pig-flea	'flea'
Faunafaunic	ŋá-cəro	fish-tiger	'goonch'
Faunafaunic	?ù-cəro	bird-tiger	'brown shrike'
Faunafaunic	?ù-məguy	bird-elephant	'turkey'
faunafloric	woy-cəmyen	monkey-Entada	'a species of small Entada'
faunafloric	yú-kumgyin	rat-cucumber	'a species of small cucumber'
faunafloric	yú-na-məkhrát	rat-ear-fungus	'a small black fungus'
faunafloric	çəkhyi-mətî	deer-mushroom	'a species of mushroom'
faunafloric	khədòn-làp	cricket-leaf	'a small kind of betel leaf'
faunafloric	cəro-məjáp	tiger-chili	'a very hot species of chili'
faunafloric	wà?-myì?-phún	pig-eye-tree	'a species of tree'
faunafloric	bərèn-bo-sì	dragon-head-fruit	'dragon fruit'
faunafloric	bərèn-jò?ban-sì	dragon-cockscomb	p-fruit
	c c	C	'dragon fruit'
faunafloric	jò?bàn-pan	cockscomb-flower	'a red species of flower'
faunafloric	kədûkhá-kan-phúr	1	-
	-	squirrel-belly-tree	'a kind of tree'
faunafloric	ŋa-khyí-mətî	buffalo-shit-mushr	room
			'black-colored mushroom which grows only in buffalo manure'
Florafloric	məkók-mətî	apple-mushroom	'a species of mushroom'

(16) Intra- and inter-kingdom associations in Jinghpaw

4.4 Metaphorical compounds

Compound zoonyms and phytonyms are sometimes semantically exocentric with no heads. Some English examples from Matisoff (2011: 666-7) include: *walking stick* 'stick like insect,' *toadstool* 'poisonous mushroom,' *elephant's foot* 'kind of yam with clusters of tubers aboveground,' *sea horse* 'kind of fish resembling a horse.' The Jinghpaw plant name *tsáp-laphàn* 'a species of fungoid, lit. bear paw,' for example, is so called because of its resemblance to the paw of a bear. Jinghpaw compounds illustrating this category are given in (17).

(17) Metaphorical compounds involving fauna and flora names

a. sùmbuy-ruŋ	sumbwi.plant-horn	'a species of beetle'
b. woy-bo	monkey-head	'a species of giant fern'
c. tsáp-ləphàn	bear-paw	'a species of fungoid'
d. nyaw-lədî	cat-nose	'a species of puffball mushroom'
e. cù?-nbá	frog-blanket	'wet moss'
f. khà?-ngùy	water-dog	'mole-cricket'

g. gùy-là-gəjoŋ h. wà?dù-dàŋ	dog-male-surprised boar-defeat	'a species of thorny thistle' 'an extremely prickly kind of yam'
5	monkey-eye-feed.fire	'small black fly or gnat supposed to
		cause sore eyes'

4.5 Polysemy

The word for deer in Jinghpaw is *càn*, which is polysemous between 'deer' and 'flesh, meat.' Another word for deer is *càt*, also polysemous between 'deer' and 'rice, food' derived from *cá* 'to eat' plus a nominalizing suffix *-t*. This kind of polysemy is by no means unnatural in the Southeast Asian (SEA) areal context, as Matisoff (1978 :138) puts it: "For most modern Western languages it does make sense to have two separate items for <u>animal</u> and <u>meat/flesh</u>. In the hunting cultures of backwoods SEA, these two concepts are often expressed by exactly the same word (e.g., Lahu <u>šā</u> 'animal; meat, flesh;' Jinghpaw <u>shàn</u> 'flesh; deer; large game animal, as used for food')." The Lahu and Jinghpaw forms themselves have their sources in the PTB etymon *sya-n 'flesh, meat, game animal.' Burmese also illustrates the semantic relationship between animal, deer and flesh (e.g., *θá* 'flesh, meat,' *θágaun* 'game animal,' *sha?θá* 'barking deer,' *θámìn* 'reindeer').

4.6 Inter-lingual semantic shift

Reflexes of the same etymon may refer to different objects due to inter-lingual semantic shift (e.g., Matisoff 1978). The Jinghpaw numeral *khun* 'twenty,' for example, can be related to WB *akun* 'all,' both of which have their diachronic source in PTB *m-kul with an original meaning like "such a large number that one has to use all the fingers and toes to count up to it" (Matisoff 2003: 278-9). A few examples of inter-lingual semantic shift between Jinghpaw and Burmese involving animals are given below:

(18) Inter-lingual semantic shift

)		
Jinghpaw	Written Burmese	РТВ
cəro(ŋ) 'tiger'	kroń 'cat'	*s/k-roŋ 'cat, wildcat'
ləpu 'snake'	pui ³ 'insect, worm'	*bəw 'insect, vermin, bug, snake'
yún 'rat'	yun 'rabbit'	*b-yəw-n 'rat, rabbit, hare'
cəkrép 'bedbug'	khrip 'lac'	*s-krep 'bug, ant, insect (lac)'

5. Language contact

The Jinghpaw-speaking region in northern Burma is a site of intensive contact where cultural and language contact among intra- and extra-TB speakers has been a long-standing phenomenon. The intra-TB contact is represented by the Kachin people who speak several minority TB languages. Jinghpaw speakers have also had a long symbiotic relationship with the Tai-speaking Shan people, from whom they have borrowed a number of lexical items. Burmese and Chinese are two dominant languages in the Jinghpaw-speaking region today. Their influence on Jinghpaw, however, is diachronically quite limited (Kurabe 2016, 2017). Jinghpaw animal names are no exception. The word for 'animal' itself is a loan from Shan (e.g., dùsàt < Shan to¹s^hat⁴). Other loan zoonyms include:

(19) Zoonyms of	f Shan origin
a. bəlúk	catfish

a. bəlúk catfish	< paa ¹ luk ⁴ (lit. fish-hole)
b. bəleŋ red catfish	< baa ¹ lɛŋ ¹ (lit. fish-red)
c. byìŋ water leech	< piŋ ¹
d. taw turtle	<taw ²
e. shellfish khoy	< hoj ¹
f. pyék duck	< pet ⁴
g. stork gon	< kon ²
h. kaynam dipper	< kaj ² nam ⁵ (lit. bird-water)
i. braŋtáy hare	< paaŋ ¹ taaj ⁴
j. jàŋduy tuskless elephant	< tsaaŋ ⁵ tuj ⁴
k. màgàm black horse	< maa ⁵ kam ² (lit. horse-black)
l. lày-gənù silkworm	<laaj<sup>3 'silk'</laaj<sup>
m. myeŋ-séŋ green beetle'	< mɛŋ ⁴ s ^h ɛŋ ¹ (lit. insect-precious stone)
n. myeŋ-khám golden beetle'	< mɛŋ ⁴ k ^h am ⁴ (lit. insect-gold)

(20) Zoonyms of Burmese origin

) = 0 0 11 1 1 2 4		
a. ŋəcoŋ	long-headed catfish	< ŋăjáun
b. ŋəmyín	short-heaed catfish	< ŋămyín
c. ŋəmán	shark	< ŋămán
d. gola?úk	camel	< kălă?u? (ult. from Pali)
e. welá?ŋá	whale	< wèlâŋá (ult. from English)

(21) Zoonyms of Chinese origin

a. yaŋ	mountain goat	< yáŋ
b. lòzè	mule	< luózi
c. khàŋcan	mud eel	< huángshàn

The animal lexicon of Jinghpaw also has foreign elements widely found throughout East and Southeast Asian languages. For example, the word for horse $g\dot{u}mr\dot{a}$ and for elephant $j\dot{a}\eta$ (e.g., $j\dot{a}\eta duy$ 'tuskless elephant') are known as areal words found throughout the region. The etymon of Jinghpaw $g\partial la\eta$ 'eagle' is PTB *glaŋ, which is known as an old loan into TB and Chinese from Mon-Khmer (Benedict 1972: 72, Matisoff 2003: 263). The word for wild dog is of special interest in that it probably illustrates a contact connection between Sino-Tibetan and Indo-European. Matisoff (2010: 584-7) shows that the English word *jackal* is ultimately from Sanskrit, being only found in Indo-Aryan. This suggests that it is a loanword from non-IE source. He proposes that its etymology is a PTB root *s-k-ywal 'wild dog, jackal, dhole, wolf,' which is reflected in Jinghpaw as *jakhyon* ~ *cakhyon* 'wolf, wild dog.'

Jinghpaw animal names sometimes show parallel word-for-word structure with other neighboring languages. These are possibly examples of calques, where one language borrowed words from another by literal translation. One example comes from the word for turkey, where neighboring languages regardless of language families show a parallel structure consisting of 'fowl' and 'elephant,' as given below. It is so called because of its trunk-like beak-wattle (Matisoff 2011: 670).

(22) Possible calques

ups
eto-Burman
eto-Burman
eto-Burman
Kadai
n-Khmer

6. Summary

This paper explored the Jinghpaw animal nomenclature in terms of phonology, morphology, semantics, and language contact. This paper showed that the rich lexicon of Jinghpaw zoonyms illustrates areal and universal features of animal nomenclatures discussed by Matisoff (2011). In terms of phonology, onomatopoeia contributes to bird name formation, and phonological reduction often leads to morphosemantic opacification of animal names. Affixation and compounding are the two morphological processes that create a number of words in the animal lexicon of Jinghpaw, as with other TB and neighboring languages. Locational and appearance categories, as with other languages, are semantically very productive in Jinghpaw. Intra- and inter-kingdom associations are also attested in Jinghpaw animal nomenclature. Language contact, especially with Shan, brings additional animal names into the language, contributing to the rich animal lexicon of Jinghpaw.

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Appendix

The following list provides Jinghpaw animal names classified based on the STEDT Animal Questionnaire: I. General; II. Transportation/Work Animals; III. Food/Clothing Animals; IV. Canines and Felines (domestic and wild); V. Deer; VI. Bear; VII. Monkeys; VIII. Rodents/Lagomorphs; IX. Pachyderms; X. Other Mammals; XI. Reptiles and Amphibians; XII. Birds; XIII. Fish; XIV. Molluscs (Bivalves, Gastropods) & Marine Arthropods; XV. Insects, Arachnids, Worms, Pests.⁴ The Jinghpaw data are taken from Hanson (1906), Maran (1978), and my fieldnotes. The list provides both orthographic and phonemic forms. The English translation is based on Hanson (1906) and Maran (1978).

I. General	
dusat /dùsàt/	animal, beast
ala /?əlà/	male animal
ayi /?əyì/	female animal

II. Transportation/Work Animals

II. ITalisportation/ work A	IIIIIais
dumsu /dùmsu/	cow
gawla-uk /gola?úk/	camel
gumra /gùmrà/	horse
hkyi ma /khyì mà/	riding pony
lawze /lòzè/	mule, pack mule
lawgung /lòguŋ/	donkey
nga /ŋa/	cattle
nga tang /ŋa taŋ/	ox, pack-bullock
hpaw lam /phò? lám/	wild buffalo, Bubalus bubalis
wuloi /wuloy/	buffalo
III. Food/Clothing Animals bainam /bàynam/ sagu /cagû/ wa /wà?/ wa du /wà?dù/ yang /yaŋ/	goat sheep pig wild boar wild mountain goat
IV. Canines and Felines	
chyahkawn /cəkhyon/	fox, wolf, dhole, wild dog
ga gwi /gá gùy/	fox, raccoon dog
gwi /gùy/	dog
hkan /khan/	wild cat
hkanghkyi /khàŋkhyì/	lion
mai dum /mày dum/	a species of bob-cat
nyau /?nyaw/	cat
rawng chyang /ròŋ caŋ/	black leopard
rawng gawk /ròŋ gòk/	cheetah

⁴ http://stedt.berkeley.edu/work/questionnaires/02animals.txt

rawng mut /ròŋ mùt/ rawng teng /ròŋ tèŋ/ sanghpaw gwi /saŋphó gùy/ sha lawm /cá lòm/	a species of tawny colored tiger leopard, <i>Panthera pardus</i> any kind of long-haired foreign dog, esp. the sheep dog because the first ones were brought by foreigners on ships a species of wild cat
V. Deer chyahkyi /cəkhyi/ hkyi dut /khyì dút/ mai lu /mày lu/ shan /càn/ shan krang /càn kraŋ/ shan nga /càn ŋa/ shat /càt/ zau nyi /zàwnyì/	barking deer, <i>Cervus muntjac</i> porcine deer, <i>Hyelaphus Porcinus</i> Rusa deer deer, large game used for food sambar, hart, <i>Cervus aristotelis</i> red deer, a relative of the <i>Cervus elaphus</i> deer brown-antlered Rusa deer
VI. Bear tsap /tsáp/ tsap di /tsáp dí/ tsap ru /tsàp ru/ tuŋ/)	bear Himalayan bear, <i>Ursus thibetanus</i> a kind of large black bear (also called tsap tung /tsàp
VII. Monkeys la gang /là? gàŋ/ n-grau /ǹgràw/ sangang /səŋaŋ/ sara /sərá/ woi /woy/ woi hkyeng /woy khyeŋ/ woi lup /woy lùp/ alone woi sharaw /woy cəro/ woi shin /woy cín/	lar gibbon, <i>Hylobates lar</i> hoolock gibbon, <i>Hylobates hoolock</i> slow-loris or lemur, <i>Nycticebus cinereus</i> gibbon (also called shara /cərá/) monkey red-tipped pig-tailed monkey large male monkey, mainly terrestrial, usually found possibly clouded leopard a species of langur
VIII. Rodents/Lagomorphs brangtai /braŋtáy/ chyahkai /cəkhây/ du /dú/ dumsi /dùmsi/ jahkai /jəkhây/ kadu hka /kədûkhá/ magan /məgan/ nbu rawn /ńbû ron/ ndaw la /ndò? là?/ salaw /səló/ sharu /cəru/	rabbit, hare giant squirrel, <i>Ratufa bicolor</i> brush-tailed porcupine, <i>Atherurus macrourus</i> porcupine, <i>Hystrix cristata</i> giant squirrel, about the size of a housecat tree squirrel a species of grand rat shrew mole, <i>Uropsilus soricipes</i> a big kind of squirrel flying squirrel bamboo rat (also called ru /ru/)

shinglap /cìŋlàp/ yu /yú/ yu byi /yùbyì/ yu hkrawn /yú khron/ yu jung /yù juŋ/ yu samyit /yú səmyìt/ yu shinglap /yú cìŋlàp/	a species of ground rat rat, mouse (also called <i>yun</i> /yún/) flying squirrel a species of bamboo rat shrew-mouse a species of shrew a species of mouse resembling the harvest mouse
IX. Pachyderms dumbau /dùmbàw/ dun /dun/ jangdwi /jàŋduy/ magwi /məguy/ manang /mənaŋ/	rhinoceros a small species of rhinoceros tuskless male elephant elephant mammoth (from legend)
X. Other Mammals malat /məlàt/ patsip /pətsíp/ sawoi /səwoy/ sinlen /sìnlen/ sharam /cəram/ wela nga /welá? ŋá/	palm civet, <i>Paradoxurus</i> bat pangolin Indian mongoose, <i>Herpestes edwardsii</i> otter whale

XI. Reptiles and Amphibians

m. reputes and miphota	115
dumbau shu /dùmbàw cù?/	a species of frog
kadu kang /kədú kaŋ/	land lizard
kawa shu /kəwá cù?/	a species of frog found often in bamboo
hka lapu /khà? ləpu/	water snake
hkangse /kháŋsé/	water monitor, Varanus salvator
hkindu /khindù/	a kind of lizard
la nyan /là? nyàn/	newt
lapu /ləpu/	snake, serpent
manaw /mənò?/	tadpole (also called <i>naw byin bau</i> /nò? byin bàw/)
nhkau /ǹkhaw/	a kind of water snake
nji joi /'nji joy/	a small arboreal snake
nnyeng /ńnyêŋ/	flying lizard, Draco fimbriatus
nsang sawn /nsaŋ sòn/	a species of skink
nta dingsing /ńtâ dìŋsiŋ/	house-lizard
pu hkala /pu khəlá?/	a species of coral snake
pu mawp /pu mòp/	a species of swamp snake
pu mut /pu mùt/	ribbon snake
pu nwi /pu nuy/	reticulate python
pu pyen /pu pyen/	cobra
pu sai /pu sáy/	a species of water snake
pu htum /pu thúm/	Russel viper
pu tsit /pu tsìt/	arboreal green snake
hpaw hput /phó?phút/	a species of monitor, the so-called Chinese crocodile

shawang /cəwán/ shingnyen /ciŋnyèn/ shu /cù?/ shu chvit /cù? cìt/ shu gawk /cù? gòk/ shu gri /cù? gri/ shu gyeng /cù? gyen/ shu kawng /cù? kon/ shu nu /cù? nú/ shu ran /cù? rán/ shu ri /cù? rí?/ shu tek /cù? ték/ singgu /sìngu/ tau te /taw té?/ tau bren /taw brèn/ tau kawk /taw kók/

XII. Birds buk galwi /bùk gəluy/ chyabren /cəbrên/ chyingprau /ciŋŋàw/ chyingpring pri /ciŋpriŋ prì?/ du du /dù dù/ gai nam /gáy nam/ galang /gəlaŋ/ gaw gam /gò gam/

gaw hka /gò? khá/

gawng karu /gòŋ kəru/ je yang lang ji /jèyaŋ làŋjì/ jingling /jìnlín/ kahkru /kəkhru/ katik kada da /kətík kədà dà/ kumba ja la /kumba ja là/ kumba u ju /kumba ?ù jù/ hka la /kha là/ hka u /khà? ?ù/ hkaike /khayke/ hkaipyek /khavpyék/ hkaka la /khəka là?/ hkam hkam /kham kham/ hkataw /khətô/ hkawngrang u /khoŋràŋ ?ù/ hkru jeng /khrù jen/ hkru ji /khrù jì/ hkru mut /khrù mùt/

lizard a kind of striped snake tree lizard, chameleon frog toad a species of frog a species of frog a species of frog a very noisy variety of frog bull-frog a long kind of land frog a variety of loud-croaking frog a variety of marsh frog a species of water lizard tokay gecko terrapin or marsh-tortoise turtle

a species of nighthawk that makes the sound indicated white-browed fantail, Rhipidura aureola burmanica great barbet, Megalaima virens a variety of the fly-catcher bird a species of owl (also called *du du di di /*dù dù dì dì/) water ousel, Cinclus cinclus any bird of prey, eagle, kite, or hawk eagle large kind of hornbill oriental pied hornbill, Anthrococeros coronatus leucogaster ndian blue-throated barbet, Megalaima asiatica European Kestrel, Falco tinnunculus a species of honeysucker any species commonly known as doves Chinese francolin. Francolinus pintadeanus Burmese shrike. Lanius collurioides white-crested laughing thrush, Garrulax leucolophus raven little egret, Egretta garzetta parrot duck oriental magpie, Pica pica sericea a species of night bird bulbul great hornbill ring dove ring dove or red turtle dove speckled wood pigeon, Columba hodgsonii

hkru tai /khrù tay/ purple wood pigeon, Columba punicea orange-breasted green pigeon, Treron bicincta hkru tsit /khrù tsìt/ hkru wa /khrù wà?/ emerald dove, Chalcophaps indica hkru du /khrù dù/ Rufous turtle dove, Streptopelia orientalis lang ji /làn jì/ Pariah Kite. Milvus migrans govinda a species of nighthawk (also called lanya /lənyà/) langa /ləŋá?/ lanung /lənun/ greater racket-tailed drongo Dicrurus paradiseus lanung u sin /lənun ?ù sin/ grackle, Gracula religiosa lanyawng /lənyon/ myna bird (also called *lanvu* /lənyu/) lawen /ləwen/ green magpie mali tau /məlì? taw/ greater adjutant stork, Leptoptilos dubius mu u /mú? ?ù/ hoopoe nam u /nàm ?ù/ wild birds of the jungle nsin galang /ńsín gəlan/ nighthawk nga rem u /na rem ?ù/ lack-collared starling, Sturnus nigricollis nhkam /nkham/ a kind of nighthawk nhkreng hkrek /nkhren khrèk/ red-billed blue magpie, Kitta erythrorhyncha ningwa hpai u /nìŋwa phay ?ù/ pelican nsin galang /ńsín gəlaŋ/ nighthawk panglai hkaipyek /panlay khaypyék/ penguin panglai hkrudu /panlay khrùdù/ seagull swallow pi lan /pí làn/ rain quail, Coturnix coromandelica prang u gam /pran ?ù gam/ puk dun /púk dun/ cuckoo (also called kuk dun /kúk dun/) shakrai /cəkray/ Indian blue-throated barbet, Megalaima asiatica goose (also called *hkyengma* /khyenma/) shangma /canma/ shingta la /cìntà lá?/ scarlet-backed flowerpecker, Dicaeum cruentatum singwang /sinwan/ white-rumped munia, Lonchura striata singkri /sìŋkrì/ black drongo, Dicrurus macrocercus sinli /sìnlí/ tree pipit sinwa /sìnwá/ sacred greater racket-tailed drongo sinwoi yit /sinwoy yìt/ scarlet minivet, Pericrocotus flammeus elegans taw mung /tò mun/ red-whiskered bulbul, Pycnonotus jocosus taw rau /tò ràw/ Bingham's bulbul taw roi /tò roy/ a species of bulbul black bulbul taw sam /tò sam/ taw tsit /tò tsìt/ Finch-billed bulbul te te du /té té dù/ red-wattled lapwing, Vanellus indicus (also called te te /tè tè/) htingra kaisek /thìŋrá kaysék/ hummingbird u /?ù/ bird, fowl, chicken u byit /?ù byìt/ white rumped munia, Lonchura striata

u dut /?ù dút/ u gam /?ù gam/ u gan /?ù gan/ u gaw /?ù gò?/ u graw /?ù gró/ u gum /?ù gun/ u ju /?ù ju/ u kawp /?ù kòp/ u kraw /?ù kró/ u hka /?ù kha/ u hkai /?ù kháv/ u hkrang /?ù khran/ u hkri /?ù khrì?/ u hkring /?ù khrin/ u hkru /?ù khrù/ u hku /?ù khù?/ u hku /?ù khú/ u la /?ù là/ u magwi /?ù məguy/ u mut /?ù mùt/ u preng /?ù prén/ u ra /?ù rá/ u ri /?ù rì?/ u sha galang /?ù cá gəlaŋ/ u sharaw /?ù cəro/ u tawk /?ù tók/ u tawng /?ù toŋ/ u tsa /?ù tsa/ u tswi /?ù tsúy/ u tu /?ù tú?/ u ven /?ù ven/ u yung /?ù yun/ XIII. Fish

ba lai /bà lay/ ba lam /bà làm/ ba lawn /bà lon/ ba nang /bà náŋ/ ba tep /bà tép/ baleng /bəleŋ/ baluk /bəlúk/ gumhpraw nga /gùmphrò ŋá/ hkangda /kháŋdà/ hkangshan /khàŋɛan/ hkaram /khəram/ ja nga /jà ŋá/ nga /ŋá/ rain quail painted quail, Coturnix chinensis jangle fowl, Gallus gallus spadiceus horn-bill. Buceros bicornis Lady Amherst pheasant, Chrysolophus amherstiae mountain imperial pigeon, Ducula badia white-crested laughingthrush, Garrulax leucolophus little egret, Egretta garzetta golden pheasant, Chrvsolophus pictus crow chick brown hill warbler, Prinia polychroa Reeve's pheasant small parrot, *Psittacus crvthacus* dove old hen screech-owl, Strix flammea cock turkey a species of snipe quail, Coturnix coromandelica pigeon Kalij pheasant fowl-eating hawk brown shrike, *Lanius cristatus cristatus* wood pecker green peafowl, Pavo muticus sparrow cinnamon sparrow, Passer rutilans intensior nightjar green magpie, Kitta chinensis a species of nighthawk

spotted sunfish Siamese catfish banded snakehead, *Ophiocephalus Striatus* bulbous fish a small, thin, white fish a species of catfish, *Saccobranchus* torpedo catfish, *Clarias magur* white goldfish, *Carassius auratus* gar fish mud eel a species of catfish or bullhead goldfish, *Carassius auratus* fish

nga chyang /ŋá caŋ/	snakehead	
nga chyawng /ŋá coŋ/	long-headed catfish	
nga myin /ŋá myín/	short-headed catfish	
nga sharaw /ŋá cəro/	goonch, Bagarius bagarius	
nga shari /ŋá cərí?/	Chinese high-fin banded shark, Myxocyprinus	
•	asiaticus	
nga una /ŋá ?ùnà/	catfish with poison stingers on its ventral fins	
nga utsang /ŋá ?ùtsaŋ/	a species of landlocked mountain salmon	
	nga zaibru htu	
/ŋá zàybrù thù/	small silversides sucker of the family, Atherinidae	
shala lap /ɛəlà láp/	minnow	
shayu /cəyù/	a tropical species of fish, Mastacembelus	
sinlai /sìnlày/	a species of trout found in fast mountain streams that	
, ,	have a sedimentary rock bed	
ubat /?ùbàt/	a species of large fish of the suborder	
ukyik /?ùkyìk/	a species of catfish	
uhpai /?ùphay/	a species of silvery, sucker-like fish	
uhpyin /?ùphyin/	a species of fish that has a round, thin, and flat body	
r r j	form	
uhtang /?ùthàŋ/	a species of trout	
urat /?ùràt/	black-headed systemus	
	·	
XIII. Molluscs (Bivalves, Gastropods) & Marine Arthropods		
ahrahlan /aalshân/		

Ani. Monuses (Bivalves, Gastropous) & Marine Artinopo		
chyahkan /cəkhân/	fresh-water crab	
katsu /kətsû/	prawn, crayfish	
hkapawp /khəpòp/	freshwater gastropod	
hkinru rawng /khinrù ròŋ/	spiral snail	
hkoi /khoy/	mollusk, univalvular shellfish	
lapawp /ləpòp/	land snail	

XV. Insects, Arachnids, Worms, Pests	XV.	Insects,	Arachnids,	Worms,	Pests
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atsawm kanu /?ətsàm gənù/	a kind of caterpillar
byet /byèt/	maggots, grubs, larvae (also called byet su /byètsù/)
chyahkrau /cəkhrâw/	tailor ant
chyinghkra /ciŋkhrá/	kind of worm that is especially destructive to yams
dinggram /dìŋgram/	a species of spiny crab
dinggung /dìŋguŋ/	religious name for a spider supposed to be always
	resting in its web
dingsang /diŋsaŋ/	a species of bee
du htek /dù? thék/	click beetle
dung /duŋ/	worm or larva
gat but /gàt bút/	young bees, bee larvae
gat chyang /gàt caŋ/	large black kind of bee
gat jan /gàt jàn/	hornet, wasp, yellow-jacket
gat kung /gàt kuŋ/	large, aggressive, brown species of undomesticated social bee
gat lung /gàt luŋ/	young bees, bee larvae

gat mai /gàt may/ a small kind of bee resembling the sand fly and having no poison sting gat nen /gàt nen/ domesticated bees a small kind of social bee gat hpawp /gàt phòp/ gat sha /gàt cà/ bee larvae gat shang /gàt can/ large social bee that builds its extraordinarily large colony in underground caves and jagged rock formations a kind of wasp that makes a capsule-like covering of gat ting /gàt tin/ clav for its larvae vellow hornet gat tsit /gàt tsìt/ gat tung /gàt tuŋ/ larvae of the bee, as found in the comb. gat yup /gàt ?yúp/ nocturnal species of bee gaw nyeng /go nyen/ cicada, tree locust (also called *nneng* /nnen/) gindigram/gindigram/ spider (also called *ndigram*/hdigram/) ginji chya /gìnji cá?/ black tree-ant large black ant with a fairly painful poison sting git na tang /gìt nà tan/ gungai ba /gùmgay bá/ large black biting ant janghkam /jìnkhàm/ a species of large horsefly ji bum /jì? bùm/ a species of horsefly ji grawng /jì? gron/ mosquito ji nu /jì? nù/ housefly kabun /gəbun/ winged white ant kadawn /kədon/ field cricket, Gryllus assimilis kahkun /kəkhun/ white ant kajin jai /kəjin jay/ earthworm white intestinal parasite worm kaju gai /gəjû gay/ kanu /gənù/ germs, grubs, minute worms, parasites kindu nan /kindu nan/ large black beetle firefly kinhti htan /kínthí? than/ black ant kugvin /kugvin/ millipede kumgu shakoi hka dingsen /khà? dìŋsén/ dragonfly hka ngwi /khà? ngùy/ mole-cricket hka shalip /khà? cəlíp/ giant water bug hkakrit /khəkrít/ grasshopper, Tettigonia cantans hkalwi /khəluy/ flea general, collective name for beetles hkin-yang /khin.yan/ hkinchvi /khincì/ scarab beetle, Scarabaeus sacer hkra /khra/ any species of cicada hkra hkai /khra kháy/ young form of cicada hkyingma /khyinmá/ stink-bug (also called chyingma /cinmá/) lagat /ləgàt/ bee lai kanu /lay gənù/ silkworm lajin rin /ləjin rin/ earth-worm latung /lətuŋ/ borer insect, either mature or larvae magra /məgrà/ tick

maji ja /məjì jà/ manu /mənu/ manut /mənùt/ masun /məsun/ mu chyahkan /mú? cəkhán/ myeng hkam /myeŋkhám/ myeng seng /myeŋséŋ/ myi gup /myì? gùp/ myi htan tu /myì? than tù/ n-gaw gawk /ńgô gók/	ladybird beetle worms in a sore or in the intestines moth biting midge, or no-see-um grey water scorpion (Nepa cinerea) golden beetle green beetle a kind of stinging insect, somewhat larger than the sand-fly firefly scorpion
n-gawn ba /ngon bà/	a kind of extremely large cricket
n-gu shakau kanu	
/ngu cəkaw gənù/	millipede
nbung /ǹbuŋ/	termites and other wood-boring insects
ndang ma ba /ǹdaŋ mà bà?/	
ndu nan /ndu nan/	eye-shaped spot on each wing large black ant that bites
nhpram /nphram/	glow-worm
nkang kawt /nkaŋ kòt/	mantis
palam la /pəlâm lá?/	butterfly
rum nai /rùmnày/	cicada
shakrat /cəkrát/	body louse
shakrep /ɛəkrép/	bedbug
shalip /cəlíp/	cockroach
shingchyen /ciŋcèn/	a green, hairy caterpillar
shingchyut /ciŋcút/	a smooth caterpillar of the day-flying
shingtai /ciŋtay/	worm, caterpillar of any kind
sumbra /súmbrá?/	caterpillar that has long poisonous hair
sumbwi rung /sùmbuy-ruŋ/	a species of beetle
tsa hkri /tsá? khri/	a species of caterpillar
tsi /tsí?/	head louse
tung /tuŋ/	borer muthalogical name for a grider
htu ga /thuga/ u bka dawng /2u kba dán/	mythological name for a spider croton bug
u hka dawng /?u kha dóŋ/ utung /?utuŋ/	worm supposed to attack the teeth, causing cavities
utung / rutuŋ/	and decay
wa ndu yan /wá? ńdû yan/	centipede
wang kang /waŋ kaŋ/	mantis
wawt /wòt/	leech
wawt bying /wòt byìŋ/	horse-leech
wawt yam /wòt yam/	land leech