

Stable Roots in Sino-Tibetan/Tibeto-Burman

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Stable Roots in Sino-Tibetan/Tibeto-Burman¹⁾

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(Herakleitos, fl. ca. 500 B.C.E.)

1	. Basic vs. Stable Roots
2	2. Theoretical Issues Concerning the Notion of Stability
	2.1 Strict vs. Loose Definition of Stability
	2.2 Pervasiveness vs. Ultimate Genetic Affiliation
	2.3 Stability Differences across Semantic Fields
	2.4 Stability Differences within the Same Semantic Field
	2.5 Semantic Variation and Change
	2.6 Phonological Variation within an Etymon
	2.7 Phonological Disparities among Reflexes of the Same Etymon
	2.8 Morphosemantic Types of Etyma in Sino-Tibetan/Tibeto-Burman
3	B. Prima Facie Candidates for High Degree of Stability, Sorted by Semantic Area
	3.1 Weeding Down the Long List to Get a "Short List"
4	Criterial Languages Used for Stability Judgments
5	. Etyma Sets in the Criterial Languages
	5.1 Body Parts (10)
	5.2 Animals (5)
	5.3 Numerals (6)
	5.4 Natural Objects and Units of Time (5)
	5.5 People and Habitation (6)
	5.6 Plants and Ingestibles (2)
	5.7 Pronouns (2)
	5.8 Verbs (8)
	5.9 Abstract (3)
6	b. Tabulation of Results
7	. Interesting Sulung Developments — Side Benefit of This Study
8	B. Conclusion

1. Basic vs. Stable Roots

In several recent talks, Martha Ratliff (2006a, 2006b) has developed the notion of "lexical stability", especially with respect to the Hmong-Mien (HM) family, contrasting it with the more familiar concept of "basic vocabulary". For her, *basic* words are those that speakers of all languages need to have, thus a *universal* concept; *stable* words, on the other hand, are those which "all languages in a particular family share", i.e. a *non-universal* subset of the lexicon (2000b: 1). This permits a four-way classification of words:

[-basic, -stable], [-basic, +stable], [+basic, -stable], [+basic, +stable].

In the HM context, Ratliff offers examples of each class (ibid.):

- (a) [-basic, -stable] BUTTERFLY; JOKE; OR; THUMB
- (b) [-basic, +stable] SILVER; HUNDRED; LIQUOR; TARO
- (c) [+basic, -stable] MOUNTAIN; HEAD; GIVE; NOT
- (d) [+basic, +stable] FLOWER; DIE; HAIR; FIRE

The first class, [-basic, -stable], is of limited historical interest. The second class, [-basic, +stable], is historically ambiguous: all four examples above are loanwords from Chinese into Proto-HM.³⁾ The fourth class, [+basic, +stable], is "of greatest value in evaluating competing claims for distant relationship" (*ibid*.).⁴⁾ As we shall see, it is the third class, [+basic, -stable] which is especially useful for establishing isoglosses among subgroups of a language family.

This interesting approach raises a large number of theoretical issues, which I propose to discuss from the ST/TB point of view, although not particularly with respect to competing claims of distant genetic relationship.

2. Theoretical Issues Concerning the Notion of Stability

2.1 Strict vs. Loose Definition of Stability

"All languages in a particular family" is perhaps too strict when applied to Tibeto-Burman, a family with many more languages and much greater time-depth than Hmong-Mien. Even if we use Paul K. Benedict's concept of the five criterial TB languages (Written Tibetan (WT), Written Burmese (WB), Jingpho (=Kachin), Lushai (=Mizo), and Garo),⁵⁾ the extremely pervasive etymon for BLOOD (pTB ***s-hywəy**) would have to be disqualified, because of WT **khrag**.⁶⁾ Absolute stability—i.e., attestation in every single subgroup and isolate in the family—is hard to find. I am here using a looser concept: a *continuum of stability*, or "stability quotient".⁷⁾

2.2 Pervasiveness vs. Ultimate Genetic Affiliation

Just because an etymon is attested throughout a particular language family, this does not necessarily guarantee that it ultimately originated in that family (cf. the Hmong-Mien examples of [-basic, +stable] etyma above). With respect to ST, the root ***k-laŋ** 'eagle; hawk; vulture; bird of prey' is attested virtually everywhere in TB, as well as in Chinese, although it seems clearly to be a loan from Mon-Khmer (*STC* #333 and n. 225; *HPTB*: 263, 393, 521). Similarly with ***kyaŋ** 'ginger', ultimately probably from Austronesian, thence into Chinese, then into TB; also ***dzyi × *gyi** 'ride an animal' (old loan from Chinese into TB), and many others.⁸⁾

2.3 Stability Differences across Semantic Fields

It is a fundamental tenet of glottochronological theory that basic (i.e. universally necessary) vocabulary is the most resistant to replacement through time. This basic vocabulary consists mostly of nominals belonging to a relative handful of semantic fields, especially *body parts*, *numerals*, *pronouns*, *animals*, and *natural objects*, and (to a much lesser extent) *active* and *stative verbs/adjectives*. The famous 100- and 200-item Swadesh lists were compiled according to this idea; but they have been criticized by many linguists (including me) because of their typological and areal bias in favor of European-type languages.⁹)

2.4 Stability Differences within the Same Semantic Field

While it is certainly true that basic vocabulary belongs overwhelmingly to the semantic fields just mentioned, there are great differences in stability even within the same "basic" field. Ratliff (2006b: 1) gives several examples from Hmong-Mien:

stable	non-stable	stable	non-stable
FRUIT	TREE	WAIST	NECK
TAIL	FOOT	CHICKEN	PIG
BODY LOUSE	HEAD LOUSE	SNAKE	RAT
WING	ARM	BOY	GIRL
HAIR	HEAD	RICE	MEAT

It is this unpredictability which motivates Ratliff's idea that lexical stability is familyspecific, and thus of use in evaluating competing claims of remote relationship.

During the discussion period after Ratliff 2006b, the Austronesianist Malcolm Ross observed that the most stable word in Austronesian is NIT (i.e. louse-egg), doubtless because grooming is very important in AN culture.¹⁰ By way of contrast, the pTB root ***s-row** 'nit' is relatively sparsely attested, so far identified only in Central and Western Tibetan **sro-ma**, Jingpho **tsí?***-rù* 'nit' (**tsí?** 'louse'), as well as in Lushai (Mizo) **hrū**, and several rGyalrongic forms supplied by J. Sun (Puxi $\int v\bar{v}\bar{v}^w$, Caodeng **ndʒru?**, Muerzong **srə?**).¹¹

In the pTB lexicon, as in every proto-language, some etyma in a given semantic field are vastly more widespread and stable than others. Thus, among body parts, the root ***s-mik** \approx ***s-myak** EYE is attested practically everywhere, without significant competition from other etyma with the same meaning; while a body part like SKIN has more than a dozen competing etyma, many of them quite widespread.¹²

There also seem to be family-specific differences in the richness of particular semantic fields. We would expect more words for different kinds of snow and ice in Nootka than in Arabic; and more words for the trappings of a camel in Arabic than in Nootka. The Austronesians, maritime folk and world-class celestial navigators, have highly developed vocabularies for species of **fish** and **stars**, neither one of which is a preoccupation of the TB lexicon.

2.5 Semantic Variation and Change

Should we downgrade a root's stability quotient if it has undergone significant semantic changes in various subgroups, even though its phonological cognacy is not in doubt?¹³⁾ In Chin languages the root ***m-luŋ** is well attested, but there is much vacillation between the meanings of HEART and LIVER, and both of these body parts are extensively used in *psy-cho-collocations*.¹⁴⁾

2.6 Phonological Variation within an Etymon

Some roots show a great deal of allofamic variation, e.g. SUCK / KISS / BREAST (*dz(y)o:p × *ts(y)o:p × *dz(y)o:p × *dzip × *dzup × *dzup × *dzyuk × *dzyut, etc.); FIRE / WHITE / SHINY (*b^war × *p^war × *hwal × *hwar × *war × *?u:r, etc.); TONGUE / LICK (*l(y)a × *lay × *ley × *lyak × lyam); BODY HAIR / FUR / FEATHER (*mil × *mul × *myal, etc.). For our purposes this should not affect stability judgments; i.e., as long ANY allofam of a particular etymon is present in a certain language or subgroup, the etymon as a whole is deemed to be attested there.

2.7 Phonological Disparities among Reflexes of the Same Etymon

Stability judgments, to be valid, presuppose that cognate identifications are correct, which is not always easy to determine by simple eyeballing, especially in the case of obscure and poorly documented languages. Forms in two languages which appear very similar on the surface might well descend from different etyma, or might be loans one from the other, or both might be loans from a common source. On the other hand, forms which look very different can sometimes be shown to be perfectly cognate on the basis of evidence from parallel examples, e.g. Latin **duo**, Armenian **erku** 'two' < PIE ***dwo-**; WT **bźi**, Lahu **3** 'four' < pTB ***b-ləy**.

The phonological complexity of an etymon does not seem to play a role in its stability. Among the most stable roots in ST/TB we find ***ka** BITTER, a very simple CV syllable; as well as ***s-hywəy** BLOOD, a complex sesquisyllable.

How similar the various reflexes of a given etymon appear is partly a function of the fact that certain phonemes seem particularly prone to change through time, while others show much greater diachronic conservatism. The reflexes of the Indo-European etymon ***mūs**-'mouse' are quite similar throughout the family, since nasals and /s/ seem particularly resistant to change in the IE family.¹⁵

2.8 Morphosemantic Types of Etyma in Sino-Tibetan/Tibeto-Burman

- (a) Concepts for which there is an overwhelmingly pervasive single etymon: DIE, DOG, DREAM, EYE, NAME.
- (b) Concepts for which there are several apparent roots, none of them very well attested: BAT, CAT, FONTANELLE, SEMEN.
- (c) Concepts for which there are several well-attested competing etyma: CHICKEN, FEAR, HEAD, SKIN, WATER. It is roots of this type, roughly equivalent to Ratliff's [+basic, -stable] category, which are especially useful for establishing isoglosses, and thus for subgrouping.¹⁶

3. Prima Facie Candidates for High Degree of Stability, Sorted by Semantic Area

A preliminary scan of the Index of Roots reconstructed in *HPTB* (pp. 639–675) suggests a "long list" of 73 roots with the following meanings:

- (A) Body parts (16)
 BLOOD; BONE; BREAST/MILK/SUCK; EAR; EYE; GALL; HAIR (body); HAND;
 JOINT; LIVER; NOSE; SNOT; SPLEEN; TAIL; TONGUE; TOOTH
- (B) Animals (9)
 ANIMAL; BEAR; CATTLE; DOG; DOVE; FISH; LOUSE; PIG; SNAKE
 (C) Numerals (0)
- (C) Numerals (9) TWO; THREE; FOUR; FIVE; SIX; SEVEN; EIGHT; NINE; HUNDRED(D) Natural objects and units of time (7)
- (D) Natural objects and units of time (7) DAY (of 24 hours)¹⁷; FIRE; MOON; SMOKE; SUN/DAY; WIND; YEAR
- (E) People and habitation (7) CHILD/SON; FATHER; GRANDFATHER; HOUSE; HUSBAND/MALE; HUMAN/ PERSON; NAME
- (F) Plants and ingestibles (5) BAMBOO; FRUIT; GARLIC/ONION; MEDICINE; POISON
- (G) Pronouns (3) 1st PERSON; 2nd PERSON; 3rd PERSON/WHO
- (H) Verbs (14) BENT/CROOKED; BITTER; DIE; DREAM; EAT; GIVE; ILL; KILL; KNOW; LICK; OPEN; POUR/SPILL; STAND; STEAL
- (I) Abstract (3) COPULA; NEGATIVE; NEGATIVE IMPERATIVE

3.1 Weeding Down the Long List to Get a "Short List"

Which etyma "make the cut"? I must confess I have cheated a bit here! Since I am comparing forms from 12 languages and proto-languages (see Section IV, below), I would like to avoid having to input $73 \times 12 = 976$ forms to do a proper calculation. I will thus "cut to the chase" and select what I guess would be the top 47 etyma. Just as in an academic personnel action, I do feel obliged to explain why the unsuccessful candidates have been dropped from the list:

3.1.1 Body parts (10)

BLOOD; BONE; EAR; EYE; HAIR (body)/FUR/FEATHER; HAND; NOSE; TAIL; TONGUE; TOOTH

Rejects: BREAST/MILK/SUCK: too complicated; numerous allofams GALL: not pervasive enough (henceforth "NPE") JOINT: NPE LIVER: much interchange with HEART and verbal roots like BITTER and SOUR. SNOT: too much like NOSE SPLEEN: NPE

3.1.2 Animals (5) ANIMAL; DOG; FISH; PIG; SNAKE

Note that DOG and CAT are totally different in distribution. DOG is one of the most stable roots, but there is no widespread root for CAT at all (many of the forms seem imitative of the sound cats make).

Rejects: BEAR: NPE CATTLE: NPE; the principal etymon (***nwa × *ŋwa**) is a Wanderwort DOVE: NPE LOUSE: there are two competing and phonologically similar roots, ***sar** and ***śrik** PIG: NPE

3.1.3 Numerals (6)

THREE; FOUR; FIVE; SIX; EIGHT; HUNDRED

FOUR is one of the most stable numerals, despite the taboo against FOUR in the Sinosphere,¹⁸⁾ because of its phonological similarity to DIE. The most stable numerals in TB seem in fact to be FOUR and EIGHT. THREE, FIVE, SIX, NINE are also quite stable. In general, numerals are the most stable of all semantic fields (despite the fact that they are sometimes borrowed wholesale, as in Thai and Japanese). However, in order to avoid weighting my calculations too much in this direction, I am not including NINE in the short list.¹⁹

Rejects:

ONE and TEN: there are several competing roots for each. TEN is actually a classifier in many languages.²⁰⁾

SEVEN: this numeral (***s-nis**) seems to be a derivative of TWO (***g-nis**), pointing perhaps to an ancient quinquegesimal system (found to this day, e.g. in Khmer). WT has an aberrant form **bdun**.

3.1.4 Natural objects and units of time (5)

DAY (of 24 hours); FIRE; MOON; SMOKE; SUN/DAYTIME

Rejects: WIND: NPE YEAR: NPE

3.1.5 People and habitation (6)

CHILD/SON; GRANDFATHER/ELDER BROTHER; HOUSE; HUSBAND/MALE; MAN/PERSON; NAME

NAME is one of the most stable roots in TB/ST. One's name is often viewed almost as inti-

mately as the parts of one's body.21)

Rejects:

FATHER and MOTHER are rejected on universal grounds: i.e. they tend to be similar in most human languages.

3.1.6 Plants and ingestibles (2)

MEDICINE/JUICE/PAINT; POISON

There is a moderately widespread root ***tsəy** for the concept of "efficacious substance", which covers a variety of thick substances that produce a dramatic or salutary effect (medicine, paint, ink, dye, cleaning fluid, lubricating oil, etc.).²²⁾

POISON (*duk \approx *tuk) may also be considered a kind of ingestible, an "anti-food" as it were. The Lahu reflex tô? sometimes means 'be revolted by food, as a pregnant woman'.²³⁾ I've always been interested in the fact that $\overline{\mp}$, the Chinese character for POISON, contains the element \bigoplus MOTHER, though this is perhaps a rather late (post-Han) graphic variant.²⁴⁾

Rejects: BAMBOO: NPE FRUIT: NPE GARLIC/ONION: NPE

3.1.7 Pronouns (2) 1st PERSON; 2nd PERSON

The roots for 1^{st} (***ŋa-y**) and 2^{nd} (***naŋ**) person pronouns are very widespread. Note that they both feature nasal phonemes, which are particularly well preserved in ST/TB, as perhaps universally in human languages.²⁵⁾ In general, 1^{st} and 2^{nd} person pronouns are more conservative than 3^{rd} , because the latter are often originally demonstrative, or mean things like 'other'.²⁶⁾ There does exist a quite pervasive root ***su**, sometimes with the meaning 'remote 3^{rd} person; others'; when prefixed it often means 'who'.

3.1.8 Verbs (8)

BITTER; DIE; DREAM; EAT; ILL; KILL; LICK; STEAL

Rejects:

There are excellent PTB/PST etyma meaning BENT/CROOKED, GIVE, KNOW, OPEN, POUR/SPILL, STAND, but they are not sufficiently pervasive to make the cut.

3.1.9 Abstract (3)

COPULA; NEGATIVE; NEGATIVE IMPERATIVE

These concepts are all accepted because of their grammatical importance, although roots with these meanings rank the lowest of all etyma in the short list.

4. Criterial Languages Used for Stability Judgments

Ideally one should use meso-reconstructions for the various well-established subgroups of TB when these are available, plus data from those languages which have not yet been definitely assigned to a subgroup. Yet several well-documented clusters of related languages lack reconstructed meso-languages (e.g. Proto-Rai,²⁷⁾ Proto-rGyalrongic, Proto-Qiangic, Proto-Jingpho-Nungish, Proto-Baic²⁸⁾).

A number of languages stand somewhat outside well-established subgroups: Lepcha and Newar(i) in the Himalayas; Meithei, Mikir, and Mru in the Kuki-Chin area and Arakan; Naxi and Jinuo²⁹⁾ in the Lolo-Burmese area; the extinct Xixia (Tangut), now thought to be close to the Qiangic group; and the problematic Tujia and Sulung, spoken on opposite fringes of the vast TB area.

As a practical matter, however, it has seemed best to constrain this study for the moment to a relatively small sample of twelve languages. First of all, I will rely on the five criterial TB languages used in *STC*,³⁰ with certain modifications:

(1) Written Tibetan (WT)

- (2) Written Burmese (WB), but including cognates from Lahu (Central Loloish)
- (3) Jingpho (Jg.)
- (4) Proto-Kuki-Chin (VanBik 2006), instead of STC's Lushai (Mizo)
- (5) Proto-Northern Naga (French 1983), instead of STC's Garo³¹⁾

Three more meso-languages are included:

(6) Proto-Tamangic (Tamang-Gurung-Thakali-Manang) (Mazaudon 1993–94)

(7) Proto-Tani (J. Sun 1993a, 1993b)

(8) Proto-Karenic (Jones 1961; banished by STC from TB proper)

In addition to these, as a sort of control I will use data from three languages/subgroups that have seemed aberrant from the viewpoint of general TB:

(9) Baic (largely ignored by STC, where it is referred to as "Minchia")

- (10) Tujia (not mentioned in STC; spoken in Hubei, Hunan, Sichuan, Guizhou)³²⁾
- (11) Sulung (not mentioned in STC; spoken in far NE India and adjacent areas of Tibet)

Finally, in order to give this study a Sino-Tibetan dimension, one must certainly include:

(12) Old Chinese³³⁾

5. Etyma Sets in the Criterial Languages³⁴⁾

5.1 Body Parts (10)

BLOOD; BONE; EAR; EYE; HAIR (body); HAND; NOSE; TAIL; TONGUE; TOOTH

	blood		bone
pTB	*s-hywəy	рТВ	*s-rus ≍ *m-rus ≍ *g-rus
WT	[khrag]	WT	rus-pa
WB	swt; Lh. š ī	WB	rûi; Lh. yô
Jg.	sài	Jg.	<u>ùrút</u>
рКС	*thii	рКС	*ru?
pNN	*C-həɪy	pNN	[*ra:ŋ]
pKar	*swíq	pKar	*xwíq (pPwo); xí (pSgaw)
pTmc	[* ^B kaː]	pTmc	(Tamang -ru in compounds)
pTani	*vi:	pTani	[*loŋ]
Bai	sua ⁴⁴ (D, B, J) 35)	Bai	kuɑ̯³³tiə⁴² (J)
Tuj.	[mie ⁵³]	Tuj.	lu ⁵⁵ ka ⁵⁵ ; k ^h a ²¹ kw ²¹
Sul.	hui ⁵³	Sul.	a ³¹ zai ⁵⁵
OC	*xiwet ííi.	OC	*kwət 骨
TD	ear	TD	eye
pTB	*r-na	pTB	*s-mik × *s-myak
WT	rna-ba	WT	mig
WB	nâ; Lh. <i>nā</i> -pə	WB	myak; Lh. mê?
Jg.	nā	Jg.	myi?
рКС	*na, *hna	рКС	*mik
pNN	*nai	pNN	*meik
pKar	*ná'	pKar	* me? (Pho); * mε? (Sgaw)
pTmc	* ^A na; * ^A nak	pTmc	* ^{Bh} mir
pTani	* <i>ña</i> -ruŋ	pTani	*mik
Bai	<i>nv</i> ³³ to ⁴²	Bai	m <u>i</u> ⁴² (D, J)
Tuj.	[tsã²¹pʊ]	Tuj.	[lo ⁵⁵ pu ⁵⁵]
Sul.	[a ³¹ kui ⁵³]	Sul.	[a ³¹ guk ⁵⁵]
OC	*ńiəg 耳	OC	*mįək 目
	hair (body)/fur/feather		hand
рТВ	*mil × *mul	рТВ	* $l(v)ak \ge *dvak [*k(r)ut ^{36}]$
WT	[spu]	WT	lag-na
WB	mwê: Lh. mu	WB	lak: Lh. là?
Jø	mūn	Jø	lətá?
nKC	*mul *hmul	pKC	[*kut. *khut]
pNN	*muil	pNN	*glak
nKar	[*chróna]	pKar	[*cùh]
pTmc	* ^{Bh} mwi	pTmc	* ^{Ah} ia:
nTani	*mut	p Tani	survey states and stat
Bai	ma^{21} (D J) mie^{21} (B)	Bai	$[\mathbf{SIII}^{33}(\mathbf{D},\mathbf{J}),\mathbf{Sci}^{33}(\mathbf{B})]$
Tui	[si ³⁵ ka ⁵⁵]	Tui	$[a^{21}dze^{55}: tee^{35}]^{37}$
Sul	min ⁵⁵ 38)	Sul	[oit ⁵⁵]
OC	*mog 毛 × *miər 眉 'evebrow'	OC	*giək 翼 'wing' ³⁹⁾
			BA /

	tail		tongue 40)
рТВ	*may ≈ *mey ≈ *mi	pTB	*l(y)a ≈ *lay ≈ *ley
WT	[rŋa-ma; mjug-ma]	WT	lče; [ljags]
WB	?əmrî; Lh. <i>m</i> ē-tu	WB	hlya; Lh. <i>ha-t</i> ē
Jg.	ìmài	Jg.	šìŋ-lèt-šìŋ <i>-lài</i>
рКС	*may	рКС	*lay
pNN	*C-mety	pNN	*C-ley
pKar	*mjć'	pKar	Pwo phle, Sgaw pəle
pTmc	* ^{Ah} met	pTmc	* ^{Bh} le:
pTani	*mjo ~ *me	pTani	*ryo
Bai	<i>mi</i> ⁴² tu ³⁵ (D); <i>ŋv</i> ³³ tỹ ⁵⁵ (J)	Bai	<i>tse</i> ⁴² phi ³¹ (D, J), t e ¹⁴² (B)
Tuj.	[le ²¹ p ^h ũ ³⁵ ; lia ³⁵ tɯ ⁵⁵]	Tuj.	zi³⁵la⁵⁵; dzi²¹la^{21 41)}
Sul.	a ³¹ <i>niu</i> ³³ kuaŋ ⁵⁵	Sul.	a ³¹ lye ⁵⁵
OC	*mįwər 尾	OC	/see LICK/
	nose		tooth
рТВ	nose *g-na	pTB	<i>tooth</i> *swa; [*džway]
pTB WT	<i>nose</i> *g-na sna; Lh. <i>nā</i> -qhô	pTB WT	<i>tooth</i> *swa; [*džway] so
pTB WT WB	<i>nose</i> *g-na sna; Lh. <i>nā</i> -qhô hna	pTB WT WB	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì]
pTB WT WB Jg.	<i>nose</i> *g-na sna; Lh. <i>nā</i> -qhô hna [lədî]	pTB WT WB Jg.	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā
pTB WT WB Jg. pKC	<i>nose</i> *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar	pTB WT WB Jg. pKC	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa
pTB WT WB Jg. pKC pNN	nose *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar * <i>na</i> -ku:ŋ	pTB WT WB Jg. pKC pNN	tooth *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa
pTB WT WB Jg. pKC pNN pKar	nose *g-na sna; Lh. nā-qhô hna [lədî] *hnaar *na-ku:ŋ *nà (pP); *ná (pS)	pTB WT WB Jg. pKC pNN pKar	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà
pTB WT WB Jg. pKC pNN pKar pTmc	nose *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar * <i>na</i> -ku:ŋ *nà (pP); *ná (pS) * ^A hna:, ^B hna:	pTB WT WB Jg. pKC pNN pKar pTmc	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà * ^A s(w)a
pTB WT WB Jg. pKC pNN pKar pTmc pTani	nose *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar * <i>na</i> -ku:ŋ *nà (pP); *ná (pS) * ^A hna:, ^B hna: * <i>ña</i> -pum/-buŋ	pTB WT WB Jg. pKC pNN pKar pTmc pTani	tooth *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà *^s(w)a *fi:
pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai	nose *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar * <i>na</i> -ku:ŋ *nà (pP); *ná (pS) * ^A hna:, ^B hna: * <i>ña</i> -pum/-buŋ <i>ŋỹ</i> ²¹ -khv ³³	pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai	tooth *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà * ^A s(w)a *fi: tço ³³ pα ⁴⁴ (J); [tsi ³³ pα ⁴⁴ (D, B)]
pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai Tuj.	nose *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar * <i>na</i> -ku:ŋ *nà (pP); *ná (pS) * ^A hna:, ^B hna: * <i>ña</i> -pum/-buŋ $\eta \tilde{\nu}^{2I}$ -kh ν^{33} [k ν^{13} tçi ⁵⁵ d ν^{35}]	pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai Tuj.	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà * ^A s(w)a *fi: <i>tço³³</i> pα ⁴⁴ (J); [tsi ³³ pα ⁴⁴ (D, B)] si ⁵⁵ si ⁵⁵ ; si ³³ ta ³⁵
pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai Tuj. Sul.	nose *g-na sna; Lh. <i>nā</i> -qhô hna [lədî] *hnaar * <i>na</i> -ku:ŋ *nà (pP); *ná (pS) * ^A hna:, ^B hna: * <i>ña</i> -pum/-buŋ <i>yỹ</i> ²¹ -khv ³³ [ku ¹³ tçi ⁵⁵ du ³⁵] [pauk ³³ vaŋ ⁵⁵]	pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai Tuj. Sul.	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà * ^A s(w)a *fi: <i>tço</i> ³³ pα ⁴⁴ (J); [tsi ³³ pα ⁴⁴ (D, B)] si ⁵⁵ si ⁵⁵ ; <i>si</i> ³³ ta ³⁵ [ku³ ¹ tuaŋ]
pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai Tuj. Sul. OC	nose *g-na sna; Lh. nā-qhô hna [lədî] *hnaar *na-ku:ŋ *nà (pP); *ná (pS) * ^A hna:, ^B hna: *ña-pum/-buŋ yỹ ²¹ -khv ³³ [ko ¹³ tçi ⁵⁵ do ³⁵] [pauk ³³ vaŋ ⁵⁵] [*dz'įəg 自 'self'] ⁴²	pTB WT WB Jg. pKC pNN pKar pTmc pTani Bai Tuj. Sul. OC	<i>tooth</i> *swa; [*džway] so swâ; [WB cway, Lahu cì] wā *haa *swa Bassein Pho θwà * ^A s(w)a *fi: <i>tço³³</i> pɑ ⁴⁴ (J); [tsi ³³ pɑ ⁴⁴ (D, B)] si ⁵⁵ si ⁵⁵ ; <i>si³³</i> ta ³⁵ [ku ³¹ tuaŋ] [*ŋå 开]

5.2 Animals (5)

ANIMAL; DOG; FISH; PIG; SNAKE

	animal/meat/flesh		dog
pТВ	*sya-n	pTB	*k ^w əy
WT	š a	WT	khyi
WB	sâ; Lh. šā	WB	khwê; Lh. ph î
Jg.	šàn 'meat'	Jg.	gùi
рКС	*s ^h aa	рКС	*?uy
pNN	[*ŋam 'game'; *me y 'meat']	pNN	*kuəy
pKar	[*njáq]	pKar	*thwíq
pTmc	* ^a sja	pTmc	(Tamang ¹ nak ^h i)
pTani	[*dun 'meat']	pTani	kir
Bai	$\left[ke^{\imath 21}\left(D\right)\!,k\epsilon^{21}\left(J\right)\!,q\alpha^{21}\left(B\right)\right]$	Bai	khua ³³ (D); khuã ³³ (J); qhõ ³³ (B)

Tuj.	si ²¹	Tuj.	xa ⁵⁵ lie ²² ; tshe ⁵⁵
Sul.		Sul.	boh⁵³; bui⁵⁵ ⁴³⁾
OC	*śjěn 身 'body'	OC	*k'iwən 犬 × *ku 狗
	fish	pig	
pTB	*ŋ(y)a	pTB	*p ^w ak
WT	nya	WT	phag
WB	ŋâ; Lh.ŋâ	WB	wak; Lh. và?
Jg.	ŋá	Jg.	wà?
рКС	*ŋaa, *hŋaa	pKC	*wok
pNN	*ŋya	pNN	*wak
pKar	jáq (pPho); ñá? (pSgaw)	pKar	*tháu?; *thə?
pTmc	(Tamang ² tarŋa)	pTmc	* ^B dwa
pTani	*ŋо	pTani	*rjek
Bai	ŋv ⁵⁵ (D, J), ŋu ⁵⁵ (J)	Bai	$[te^{42}(D, J, B)]$
Tuj.	[soŋ ³⁵]	Tuj.	[tsi ⁵⁵ ; dzi ¹³]
Sul.	[ka ³³ fuaŋ ⁵³]	Sul.	[mə ³¹ du ⁵⁵]
OC	*ŋjo 魚	OC	*g'įwag 康 'kind of boar' ⁴⁴)
	snake/vermin		
рТВ	*s-b-ru:l		
WT	sbrul		
WB	mrwe; Lh. v ì		
Jg.	ləpū		
рКС	*ruul		
pNN	*?-bəw		
pKar	*rú'		
pTmc	(Tamang rul 'gros serpent')		
pTani	*bɯ		
Bai	khv³³ (D, J); fv³³ (B)		
Tuj.	w0 ⁵⁵		
Sul.	թահ ⁵³		
OC	[*d'ja 蛇]		

5.3 Numerals (6)

THREE; FOUR; FIVE; SIX; EIGHT; HUNDRED

	three	four	
рТВ	*g-sum	pTB	*b-ləy
WT	gsum	WT	bźi
WB	sûm; Lh. šê?, šē	WB	lê; Lh. ô
Jg.	məsūm	Jg.	məlī
pKC	*p-thum	pKC	*p-lii
pNN	*C-sum	pNN	*bələy

pKar pTmc pTani Bai Tuj. Sul.	θờn (pPho); θό (pSgaw) * ^B som *ĥum sa ⁵⁵ (D), sã ⁵⁵ (B, J) [< Chinese] so ⁵⁵ [¥uk ⁵⁵]	pKar pTmc pTani Bai Tuj. Sul.	*lwíT * ^B bli *pri [¢i ⁴⁴ (D, J), si ⁴⁴ (B)] < Chinese zie ⁵⁵ və ⁴ i ⁵⁵
OC	*səm 二	OC	*sįəd 凹 (< *s-ləy JAM) ⁴⁵⁾
	five		six
pТВ	*b-ŋa × *l-ŋa	рТВ	*d-k-ruk
WT	Iŋa	WT	drug
WB	ŋâ; Lh. ŋâ	WB	khrauk; Lh. kh ò ?
Jg.	məŋā	Jg.	krú?
рКС	*ŋаа	рКС	*p-ruk
pNN	*С-ŋа	pNN	*d-ruk
pKar	*ŋáT	pKar	*xù (pPho); xý (pSgaw)
pTmc	^{*A} ŋa(!), * ^в ŋa!	pTmc	* ^B du(!), * ^B duk
pTani	*ŋо	pTani	*krə
Bai	ŋv ³³ (B, J), ŋo ³³ (TBL)	Bai	fv ⁴⁴ (D, B, J)
Tuj.	ŋł ³³ ; 0ŋ ⁵⁵	Tuj.	W0²¹; U ³⁵
Sul.	wu ⁵⁵ (< Chinese)	Sul.	ŋə? ⁵⁵
OC	*ŋo 五	OC	*lįôk 六
	eight		hundred
рТВ	*b-r-gvat × *b-g-rvat	рТВ	*b-r-gva
WT	brgvad	WT	brgva
WB	hrac; Lh. hí	WB	ra; Lh. ha
Jg.	mətsát	Jg.	lətsā
pKC	*p-riat	рКС	*vaa
pNN	*C-gyat	pNN	*C-khva
pKar	* xò? (pPho); xò? (pSgaw)	pKar	*rjà'
pTmc	* ^B brat	pTmc	* ^B bra
pTani	pri-ñi	pTani	[*lɯŋ]
Bai	tçua ⁴⁴ (B)	Bai	$[a^{31}pe^{i44} (D), a^{31}pe^{i44} (J), pa^{44} (B)]$
Tuj.	jie ²¹ , je ²¹	Tuj.	tha ⁵⁵ ; zi ²¹
Sul.	la ⁵⁵	Sul.	[4əŋ ⁵⁵]
OC	*pwăt 八	OC	*pǎk 百 (< *bǎgrya PKB)

5.4 Natural Objects and Units of Time (5)

DAY (of 24 hours); FIRE; MOON/MONTH; SMOKE; SUN/DAYTIME

	day (24 hours)/spend the night		fire
рТВ	*r(y)ak	pТВ	*mey; [*bar × *par]
WT	źag	WT	me

pTmc

pTani

Bai

Tuj.

Sul.

OC

(Tamang ⁴*ni:*-ra)

*ñi 'sun'

*ńįĕt ⊟

n,i⁴⁴ (D, B) n,ie⁵⁵, ne³⁵

kət³¹ri⁵⁵ 'sun'

WB	rak; Lh. há	WB	mî; Lh. à-mī
Jg.	yá?	Jg.	<i>myì?-</i> phràp ⁴⁶⁾ ; [?wàn]
pKC	*riak	pKC	*may
pNN	*C-ya 'night'	pNN	[* ?- wa:r]
pKar		pKar	*míK
pTmc		pTmc	* ^{Ah} mje
pTani	*jo 'night' [*lo 'day']	pTani	*mə
Bai	jo ⁵³ xuu ³ (D) 'night'	Bai	$[xui^{33} (D, J), fi^{33} (B)] < Ch.$
Tuj.		Tuj.	mi ⁵⁵
Sul.	[a³¹4i⁵³ 'day'; a³¹Jet⁵³ 'night']	Sul.	bæ ⁵⁵
OC	*sjok 宿	OC	[xwâr 火] ⁴⁷⁾
	moon/month		smoke
pTB	*s-la × *g-la	pTB	*kəw × *kun × *kut
WT	zla-ba	WT	[du-ba , dud-pa] ⁴⁸⁾
WB	la'; Lh. <i>ha-</i> pa	WB	khûi; Lh. mû <i>-qhô</i>
Jg.	šətā	Jg.	khú (v.); ?wàn- <i>khút</i> (n.)
рКС	*khlaa	рКС	*may- <i>khuu</i>
pNN	*gla	pNN	*khəw
pKar	*là' (pPho); lá (pSgaw)	pKar	*khúq
pTmc	* ^{Bh} la	pTmc	(Tamang ² mju <i>ku</i>)
pTani	*po-lo	pTani	*mɯ- <i>kɯ</i>
Bai	[mi ⁵⁵ ŋua ⁴⁴ (J)]	Bai	$[-je^{55} (D), -c\tilde{\epsilon}^{55} (J), -je^{55} (B)]^{49)}$
Tuj.	su ²¹ su ²¹ ; <i>lo</i> ³⁵ ¢i ⁵⁵ dv ³⁵	Tuj.	<i>khwe</i> ³⁵ kha ²¹ ; <i>kŧe</i> ⁵⁵ sa ²¹
Sul.	[aŋ ³³ bo ⁵⁵]	Sul.	bæ ⁵⁵ <i>kw</i> ⁵⁵ ; [du ³³ wa ⁵³]
OC	[ŋjwat 月]	OC	*xjwən 熏 'be smoky' ⁵⁰⁾
	sun/daytime		
рТВ	*nəy		
WT	nyi-ma		
WB	ne 'sun' × ne' 'day'; Lh. ni 'd	ay', mû-n i	i 'sun'
Jg.	ní 'day', [jān 'sun']		
рКС	*nii		
pNN	*C-ni		
pKar	nì'		

303

5.5 People and habitation (6)

CHILD/SON; GRANDFATHER/ELDER BROTHER; HOUSE; HUSBAND/MALE; MAN/ PERSON; NAME

	child/son		grandfather/elder brother
рТВ	*tsa × *za	pTB	*bəw × *pəw
WT	tsha-bo 'grandchild'	WT	phu-bo 'elder brother'
WB	sâ; Lh. yâ	WB	?əphûi; Lh. ò-pū 'grandfather'
Jg.	šà	Jg.	phû 'elder brother'
рКС	*0aa	рКС	*puu
pNN	*C-dza 'son'	pNN	*pəw
pKar	phóq-<i>θàq</i> (pPho; pSgaw)	pKar	*phùh
pTmc	* ^A dza	pTmc	[Tamang ¹ akhe]
pTani	*ho	pTani	[*to]
Bai	<i>tsi⁴⁴n</i> , i ²¹ (D), <i>tsi³³</i> (J), <i>tsi⁴⁴</i> (B)]	Bai	a ⁵⁵ pu ⁵⁵
Tuj.	<i>sa</i> ³⁵ be ²¹ ; po ⁵⁵ li ²¹	Tuj.	pha ²¹ phu ⁵⁵
Sul.	a ³¹ dziaŋ ⁵⁵	Sul.	[toŋ ³³ mat ⁵³]
OC	*tsįəg × *dzįəg 子	OC	
	house		husband/male
pTB	*k-yim × *k-yum	pТВ	*p ^w a
WT	khyim	WT	pho
WB	?im; Lh. yè	WB	(YL và 'man; person')
Jg.	[ń-tâ] ⁵¹⁾	Jg.	wā
рКС	*?im	рКС	*waa
pNN	*kium	pNN	[*la]
pKar	* yénq (pPho)	pKar	*khwàh
pTmc	* ^B dim	pTmc	* ^A p ^h a; ⁵²⁾ [* ^B pjuŋ; * ^A p ^h op]
pTani		pTani	
Bai	xo ³¹ (D, B, J)	Bai	<i>po³⁵n,i</i> ²¹ (D), <i>pu</i> ³³ (J)
Tuj.	tsho ⁵⁵ ; tsha ³³	Tuj.	[no ⁵⁵ pa ⁵⁵ ; zu ⁵⁵ ŋł ²¹]
Sul.	tçauk ⁵³	Sul.	a ³¹ fo ⁵³ 'male'; a ³¹ vei ⁵⁵ 'husband'
OC	*kiôŋ 宫 'palace; temple'	OC	*pįwo 夫
	human/person		name
рТВ	*r-mi(y)	pTB	*r-miŋ; [*s-braŋ] ⁵³⁾
WT	mi	WT	miŋ
WB	[lu]	WB	mañ, hmañ; Lh. mē
Jg.	[məšà]	Jg.	myīŋ
рКС	*mii	рКС	*(h)min, *(h)miŋ
pNN	*C-məy	pNN	*min
pKar	[*pya (pSgaw)]	pKar	*mèn'
pTmc	* ^A mi(!)	pTmc	* ^{Ah} min
pTani	*mi	pTani	*mɯn

Bai	<i>ni²¹</i> ke ¹³⁵ (D), <i>ni²¹</i> qo ⁵⁵ (B)	Bai	me ¹³⁵ (D); n ₀ ⁵⁵ (B); miε ⁵⁵ (J)
Tuj.	[lo⁵³; no⁵⁵] ⁵⁴⁾	Tuj.	<i>niv</i> ³⁵ bo ¹² ; [min ²¹ tsi ²¹ < Ch.]
Sul.	bi ⁵⁵	Sul.	[a ³¹ braŋ ⁵³ ~ a ³¹ ba¹ŋ ⁵] ³
OC	*mįĕn 民	OC	*mįəŋ 名

5.6 Plants and Ingestibles (2)

MEDICINE; POISON

	medicine/paint/juice		poison
рТВ	*tsəy; [*s-man]	pТВ	*duk × *tuk
WT	rtsi; [sman]	WT	dug
WB	chê; Lh. nâ?- <i>chî</i>	WB	tauk; Lh. tờ?
Jg.	tsì 'medicine', mətsì 'yeast'	Jg.	[túk, ì-túk , nìŋ-túk] ⁵⁵⁾
рКС	(Lai sìi)	рКС	[*tuur; *ruu]
pNN		pNN	
pKar	kəθi, təθi (Sgaw)	pKar	*cýq
pTmc	[* ^{Ah} man]	pTmc	(Tamang ³pik)
pTani		pTani	*dwk; [*mro]
Bai	[jo ⁴⁴ (< Chinese)]	Bai	[tv ⁵³ (D), dw ³³ (B), tu ⁵⁵ (J)] ⁵⁶⁾
Tuj.	se ²¹ ; se ³⁵	Tuj.	[tu ²¹ ; tu ³⁵] (< Chinese)
Sul.	<i>¢i</i> ³³ min ⁵⁵	Sul.	də ³³ <i>dək</i> ⁵⁵
OC	*ts'jet 漆 'varnish'	OC	*d'ôk 毒

5.7 Pronouns (2)

	1st person		2nd person
рТВ	*ŋа-у; [*kа-у]	pTB	*naŋ × *na
WT	ŋa; ŋed	WT	[khyed; khyod; nyid]
WB	ŋa; Lh. ŋà	WB	naŋ; Lh. nò
Jg.	ŋāi	Jg.	nāŋ
рКС	[*kay-ma?]	pKC	*naŋ
pNN	*ŋа	pNN	*na(!)ŋ
pKar	j ð' (pPho); j ð? (pSgaw)	pKar	* n ð' (pPho); nà' (pSgaw)
pTmc	* ^{Ah} ŋa	pTmc	(* ^B et ≈ ^B ek; ^A gi(-C); * ^{Bh} ŋai)
pTani	*ŋо	pTani	*no
Bai	ŋo ³¹ (D, J), ŋo ⁴² (B)	Bai	no ³¹ (D, J), na ⁵⁵ (B)
Tuj.	ŋa ³⁵ ; ŋo ³³	Tuj.	ni ³⁵ ; ni ³³
Sul.	goh ⁵⁵	Sul.	na ⁵⁵
OC	*ŋâ 我 × *ŋo 吾	OC	*njo 汝

5.8 Verbs (8) BITTER; DIE; DREAM; EAT; ILL; KILL; LICK; STEAL

	bitter		die
pТВ	*ka-n	рТВ	*səy
WT	kha-ba	WT	<i>śi-</i> ba
WB	khâ; Lh. qhâ	WB	se; Lh. š i
Jg.	khá	Jg.	sī
рКС	*khaa	рКС	*thii
pNN	*C-kha	pNN	*səy
pKar	*kháq	pKar	*sìh
pTmc	* ^B kam	pTmc	* ^A si, ^B si
pTani	*ka:-	pTani	*si
Bai	[khu ³³ (D, J), qhu ³³ (B)] ⁵⁷⁾	Bai	¢i ³³ (D, B, J)
Tuj.	khł ⁵⁵ ; <i>khł³⁵</i> tsi ³⁵ tsi ³⁵	Tuj.	se ²¹ ; se ³⁵
Sul.	[a ³¹ dziu ⁵³]	Sul.	ji ⁵⁵
OC	*k'o 'bitter' 苦×*kân 肝 'liver	'OC	*siər 死
	1 50)		
TD	dream ³⁸⁾	TD	eat
pTB	*r-maŋ	pTB	*dzya
WT	rmaŋ-lam; rmi-lam	WT	za-ba
WB	?ip-mak; Lh. yi?-mâ?	WB	câ; Lh. câ
Jg.	?yúp <i>-māŋ</i>	Jg.	šá
рКС	*maŋ	рКС	(Lu. fa?) ⁵⁹⁾
pNN	*ma?	pNN	*dza
pKar	*mìmán' (pPho); mímò (pSg)	pKar	[?ámq]
pTmc	* ^A maŋ, ^B maŋ	pTmc	* ^A tsa(I)
pTani	*jup- <i>maŋ</i>	pTani	[*do]
Bai	mm ⁵³ (D), mm ⁴² (B); mm ³¹ (J)	Bai	jɯ ⁴⁴ (D, J), ji ⁵⁵ (B)
Tuj.	mv^{35} ; $mu^{21}tsi^{21}$	Tuj.	үне³⁵; [ka³⁵]
Sul.	mə ³¹ bak ⁵³	Sul.	tçih ⁵³
OC	*mjuŋ 夢	OC	*dįək 食 ⁶⁰⁾
	ill		kill
nTB	*na × *nan × *nat	nTB	×σ_sat
WT	na <u>han</u> <u>han</u> <u>hat</u> na_ha: nad_na	WT	g-sat gsod-na hsad
WB	na Pana. I h nà	WB	est
Ισ	Panà	Ισ	sat
nKC	*naa· *nat	nKC	sat *that
nNN	laa, lat [*C-dayl: *dzat]	nNN	*9_sot
nKar	[*chàh]	nKar	maAi (nPho): màAí (nSgaw)
pKai nTme	L Chan] *Ana *Anak *A/Bhna(1)	pKai nTmc	*Asot
nTani	на, нак, на(і) [*bi]	pTine	sai [*man]
Piani	$\begin{bmatrix} \mathbf{N} \end{bmatrix}$	Prani Roj	$\begin{bmatrix} man \end{bmatrix}$
Dai Tui	$[\mathbf{pca} (D), \mathbf{5V}^{-} (J), \mathbf{5U}^{-} (D)]$ [+:35: $d_{1}2^{1}$]	Dai Tui	[vu] (> 0)
ruj. Sul	[u , u ⁺⁻]	ruj. Sul	[pu ^{-,} , It ⁻]
Sul.	[Yaŋ] ³⁰]	Sui.	wa"t *~~4 ^{次几}
UC	nan HE difficulty, suffering	UC	"Sat 权

	lick/tongue		steal
рТВ	*m-lyak; *s-lyam	рТВ	*r-kəw
WT	ldag-pa 'lick', ljags 'tongue'	WT	rku-ba
WB	lyak; Lh. lè?, lé	WB	khûi; Lh. qhô
Jg.	mətá?	Jg.	ləgú (v.); ləgùt 'thief'
рКС	*liak	pKC	(Lai fîir-khùu 'thief')61)
pNN	*C-glay	pNN	*C-kə:w
pKar	lé? (pSgaw); lénq (pPho)	pKar	*-yúq (pPho); *yý? (pSgaw)
pTmc	* ^A lem	pTmc	^{*A} k ^h u; ^{*A/B} k ^h uk × *k ^h up × *k ^h ut
pTani	*ryak	pTani	[*pjoŋ]
Bai	tsi ³³ (D, J), dzẽ ¹³³ ji ⁵⁵ (B)	Bai	[ta ³¹ (D, J), die ⁴² (B)]
Tuj.	lo ²¹ ; la ³⁵	Tuj.	y4e ³⁵ ; ?e ⁵⁵
Sul.	via ⁵⁵ ; lau ⁵⁵	Sul.	yah ⁵⁵
OC	*ḋ́iุat 舌 (< g'li̯ak)	OC	*k'u 寇
	×*g'įak 臄 'tongue'		

5.9 Abstract (3)

COPULA; NEGATIVE; NEGATIVE IMPERATIVE

	<i>copula</i> ⁶²⁾	negative	
рТВ	*way ≈ *ray	рТВ	*ma
WT	red-pa, re-pa	WT	ma, mi
WB	kai ≈ rai; Lh. ve ≈ yì	WB	ma; Lh. mâ
Jg.	?ai; rái	Jg.	ń-
рКС	(Lu. e ~ ve)	рКС	[*law]
pNN	*ley	pNN	
pKar	?óq (pPho); *?ó? (pSgaw) ⁶³⁾	pKar	[* ?è? (pPho)];* tə?-bá? (pSgaw)]
pTmc	[Tamang ¹ mu; ² hin]	pTmc	(Tamang ³ a)
pTani		pTani	
Bai	[tso ³³ (D), tsu ³³ (J), dõ ³³ (B)]	Bai	mu ³³ (D); ja ³⁵ , a ²¹ (J), a ⁴² (B)
Tuj.	siu ³⁵ ; si ¹³ [< Chinese]	Tuj.	ma ⁵⁵
Sul.	wi ⁵⁵	Sul.	ba ³¹
OC	*dįwər ⁶⁴⁾ 惟維唯隹	OC	* mįwo, etc. ⁶⁵⁾

negative imperative

рТВ	*ta × *da ⁶⁶⁾	pTmc	(Tamang ⁴ ta)
WT	[ma + Vimp/Prt]	pTani	
WB	(Lahu tâ)	Bai	$[n_0^{44}puu^{31}(D), mia^{44}(J), a^{42}n_1u^{44}(B)]$
Jg.	[khùm]	Tuj.	tha ⁵⁵ ; ta ²¹
рКС		Sul.	[ba³¹ bo³³] ⁶⁷⁾
pNN		OC	/see note 65/
pKar			

6. Tabulation of Results

My original goal was to come up with two lists: a "short list" of the 10 most stable ST/TB roots, and a "long list" of the top 20. Yet there are serious methodological problems which make any such effort rather futile:

- (a) According to my scoring system, a root gets one point for each language or languagegroup where it has a reflex, unless the form seems like a loan from a related language. Yet the 12 sources of data I have used are quite incommensurate, comprising six reconstructed proto-languages (pKC, pNN, pKar, pTmc, pTani, OC), 3 well-attested individual TB languages (WT, WB, Jg.), and 3 other TB languages that have seemed atypical and on which the data is much less abundant.
- (b) Cognate identifications are not always certain, especially in the case of the latter three languages, but also as far as Chinese/TB comparisons are concerned.
- (c) Roots may overlap and conflate with each other. In the present data-set, TONGUE and LICK are intertwined in a complex way that makes it preferable to treat the two items as one, perhaps inflating its/their ranking a bit.

However, as long as it is taken with a grain of salt, there seems no harm in listing the etyma which seem to have scored the highest:

CHILD/SON	*tsa × *za	HUSBAND/MALE	*p ^w a
DIE	*səy	NAME	*r-miŋ
DOG	*k ^w əy	SIX	*d-k-ruk
DREAM	*r-maŋ	SNAKE	*s-b-rul
EIGHT	*b-r-gyat	TONGUE/LICK	*l(y)a ≍ *lay ≍ *ley ≍ *m-lyak
FIVE	*b/l-ŋa	YOU	*naŋ

The most widespread etyma of the above twelve, attested solidly in all of our criterial languages, are DIE, DREAM, and NAME. Perhaps contributing to the stability of DREAM and NAME is the fact that they both contain two nasals, a class of sounds that are typically conservative through time.

Yet it is hard to see what cultural conclusions can be drawn from all this, since about 25 of the other items on the long list have nearly identical scores with this group of twelve!

Even though a precise ranking of the most stable ST/TB roots seems to be a quixotic enterprise, there is no doubt that if most of the approximately 50 roots treated in this paper are found to have plausible reflexes in a given language, that language is certain to belong to the ST family.

7. Interesting Sulung Developments — Side Benefit of This Study

An examination of the Sulung data in Li Daqin (2004) has revealed some interesting facts:

	рТВ	Sulung
'fire'	*mey	bæ ⁵⁵
'person'	*r-mi(y)	bi ⁵⁵
'son-in-law'	*s-mak	a ³¹ bua ⁵³
'dream'	*r-maŋ (PLB *s-mak)	mə ³¹ bak
'negative'	*ma	ba ³¹
'1st person'	*ŋa	goh ⁵⁵
Exceptions:		
'corpse'	*s-maŋ	çə ^{.155} muaŋ ⁵⁵
'smell'	*m/s-nam	naŋ ⁵⁵
'cooked/ripe'	*s-min	a ³¹ min ⁵⁵

(1) Denasalization: In 6 out of 9 cases so far noted, pTB *nasals > Sulung voiced stops.⁶⁸⁾

Note that in these exceptional cases, the root ends with a nasal as well as beginning with one. It is perhaps this extra nasal element which has blocked the denasalization of the initial. The Sulung form for DREAM evidently descends from the stop-final allofam that is also found in Lolo-Burmese (e.g., WB **?ip-mak**, Lahu **yì?-mâ?**.

(2) Brightening

Sulung seems to show "brightening" of PTB *- $\mathbf{a} > -\mathbf{i}$, as is characteristic of the Qiangic languages, e.g., 'eat' Sul. **tçih**⁵³ < ***dzya**, though this is perhaps due to the influence of the medial palatal.⁶⁹

(3) Degree of "aberrancy"

Due to the fact that several Sulung numerals (especially **çun⁵⁵** 'one', **yuk⁵⁵** 'three', **lie⁵⁵** 'seven', **duaŋ³³Ja¹⁵³** 'nine') seem quite bizarre from the general TB viewpoint, I had previously viewed Sulung as a more aberrant language than it really is. In fact, in spite of Sulung's relatively poor score with respect to the "stable" vocabulary presented above, there are many clear Sulung reflexes of well-established TB roots, of all degrees of "basicness". It is perhaps worthwhile to list these as an *Appendix*, below.

8. Conclusion

Stable roots may have their uses for certain purposes, but you've got to look at entire vocabularies for nuanced judgments of linguistic relationships.

Abbreviations

AN	Austronesian
B.	Bijiang dialect of Bai
CALMSEA	Culturally Appropriate Lexicostatistical Model for Southeast Asia (VSTB
	283–296)
Ch.	Chinese
D.	Dali dialect of Bai
GSR	Karlgren (1957)
HM	Hmong-Mien (=Miao-Yao)
HPTB	Matisoff (2003)
ICSTLL	International Conference on Sino-Tibetan Languages and Linguistics
IE	Indo-European
J.	Jianchuan dialect of Bai
Jg.	Jingpho (=Kachin)
LB	Lolo-Burmese
Lh.	Lahu
LTBA	Linguistics of the Tibeto-Burman Area
NPE	not pervasive enough
OC	Old Chinese (=Karlgren's Archaic Chinese)
pHM	Proto-Hmong-Mien
PIE	Proto-Indo-European
pKar	Proto-Karen (Jones 1961)
РКВ	Paul K. Benedict
рКС	Proto-Kuki-Chin (VanBik 2006)
pNN	Proto-Northern Naga (French 1983)
pPho	Proto-Pho Karen (Jones 1961)
pSgaw	Proto-Sgaw Karen (Jones 1961)
pTani	Proto-Tani (J. T. Sun 1993)
pTmc	Proto-Tamangic (Mazaudon 1993–94)
рТВ	Proto-Tibeto-Burman
RTQ	replacement tolerance quotient (VSTB 95ff.)
SAE	Standard Average European (Whorf 1956)
ST	Sino-Tibetan
STC	Benedict 1972
Sul.	Sulung
TB	Tibeto-Burman
TBL	Dai et al. (1992)
Tmc	Tamangic
Tuj.	Tujia
VSTB	Matisoff (1978)
WB	Written Burmese
WT	Written Tibetan
YL	Yellow Lahu

310

	PTB	Sulung	Other
'arrow'	*m-da	mi ³³ ta? ⁵⁵	WT mda
'axe'	*p ^w a	ba ⁵³	Pumi фpí, OC *pįwo 斧
'bee'	*kwa:y × *gwa:y	kw ³¹ ŋuai ⁵³	WB kwâi, Mizo khuai
'bent/crooked'	*guk × *kuk	a ³¹ gok ⁵³	WB kauk, Lh. qờ?, OC k'ịuk 曲
'bird'	*daw × *dow	pw ³¹ tu ⁵⁵	Pwo/Sgaw tho, Garo do, Dimasa dau
'bow'	*d-ləy	lei ⁵³	Nung thəli, WB lê
'buy'	*ywar	ve ¹³⁵	Mizo zuar, Lh. vì
'cattle/livestock'	*dzay	çi ⁵⁵	Lh. <i>cê-</i> cà
'chew' 'child/nephew/ descendant'	/HP1B: 209–211/ *m-g ^w ya *m-du ≍ *m-tu	we ⁵⁵ a ³¹ du ⁵⁵	Lisu gua ³¹ , Lh. bê, Naxi ŋgɯ ³³ Lh. dù, WB tu, Nung phədu
'cloud'	*dim	kə ³¹ tm ⁵⁵	WB tim
'cornse'	*s man		Chanang hman Nawar si mba Ig mān
'fart'	*woy /HPTB: 229/	væ ⁵³	rGyalrong wu, Lh. vî, Hakha Lai vəi?
'fly'	*byam	pie ⁵⁵	Jg. pyēn, WB pyam, Lh. pò
'go/come/walk'	*s-wa	wu ⁵⁵	WB swâ 'go', Newari wa 'come'
'good/well/properly'	*m-d(y)ak ≍ *lyak/ŋ	tak	Lh. dà?; WT legs-pa × lags-pa
'head'	*m/s-gaw	a ³¹ kau ⁵³	WT mgo, Dimasa sakau
'heart'	*m-luŋ	a ³¹ luk ⁵⁵	Tangkhul məluŋ, Mizo luŋ
'heavy'	/This root shows final n	asal/stop variation; cf.	<pre>'roast'./ WT ltśi-ba, WB lê, Lh. hô Lh. á-thɔ-vî</pre>
'knife-edge/sharpen/	*s-ləy	a ³¹ lei ⁵⁵	
whetstone'	*wi	t¢he ³³ vi ⁵³	
'laugh'	<pre>*r(y)a(y) *k-r-wat *r-kliŋ *s-man</pre>	yue ⁵⁵	WB ray, Lh. yì
'leech'		km ³¹ vat ⁵³	WB krwat, Lh. vè?
'marrow'		a ³¹⁴ uəŋ ⁵³	Mikir ar-kleŋ, Mizo thliŋ
'medicine'		çi ³³ min ⁵⁵	WT sman, Pumi 'm̯í
'mortar' 'mountain'	<pre>*t(s)um *g(r)aŋ /The medial -r- is not y</pre>	aŋ ⁵⁵ dzə ¹³¹ graŋ ⁵³ et attested elsewhere /	Jg. thùm, WB chum, Lh. chε WT sgaŋ, Lh. qhɔ, OC *kâŋ 岡
'navel'	*laty ≍ *s-tay	a ³¹ 4ui ⁵⁵	Mizo lai, WT lte-ba, Jg. šədāi
'near'	*naty ≍ *s-ney	a ³¹ nei ⁵⁵	WT nye-ba, WB nî, Mizo hnai
'otter'	*sram ≍ *ram	kua ⁵⁵ bə ³¹ rai ⁵³	WT sram, Lh. yì-šo-lo
	/Sulung kua ⁵⁵ and Lahu	a yì mean 'water'./	
'outer covering'	*kok × *kwa:k	(a ³¹)kə ^{31/53/55}	Lh. qú, WB khauk
	'bark of tree'	hren ³³ kə ³¹	Lh. šî?-qú
	'eggshell'	mw ³¹ ti ⁵⁵ kə ³¹ kə ⁵⁵	Lh. u-qú
	'rind of fruit'	a ³¹ vai ⁵⁵ kə ⁵³	Lh. í-šī-qú
'owl/bird of prey'	*g-laŋ	mɯ³¹laŋ⁵³ 'owl'	Jg. gəlàŋ, WB lâŋ-ta', Garo do-reŋ

Appendix: More Sulung Reflexes of Well-established PTB Roots

	have been 'eagle; vul to PKC *(h)muu 'ha	ture; bird of prey'. The wk; bird of prey'./	 Misor H2, H2, H2 original strong borns to irst Sulung syllable mu³¹ might be related Khami məkhru, Lh. gû Jg. mərāu, Nung śəru, WB thâŋ-rû Mikir ang-, Bisu ?aŋ-, Phunoi ?ã-, Sangkong aŋ³³-, Rawang aŋ-, Lahu ò- WT smin-pa, Mizo hmin, WB hm(y)añ', Lh. mɛ WB kaŋ, Lh. qə, Mizo ka:ŋ pKC *khruy C, despite its citation of Jg. tšwi ~ tšəwi./ WB thak, Lh. thâ? ed to Lolo-Burmese/ Jg. gədùn ≍ kədùn
'pigeon/dove'	*m-krəw	ok ⁵⁵ mw ³¹ ko ⁵⁵	Khami məkhru , Lh. gû
'pine'	*raw × *row	ta ³¹ ru ⁵³	Jg. mərāu, Nung śəru, WB thâŋ-rû
'prefix'	*?aŋ-	aŋ ³³ -	Mikir ang- , Bisu ?aŋ- , Phunoi ?ã- , Sangkong an³³- Rawang an- Lahu ò-
	'moon' 'wind'	aŋ ³³ bo ⁵⁵ aŋ ³³ xɯt ⁵⁵	Sungkong ay -, Nuwang ay-, Lana -
	/See HPTB: 522./		
'ripe/cooked'	*s-min	a ³¹ min ⁵⁵	WT smin-pa , Mizo hmin , WB hm(y)añ' , Lh. m ε
'roast'	*ga:ŋ × *ka:ŋ	gak ⁵⁵	WB kaŋ, Lh. qə, Mizo ka:ŋ
	/This root shows fina	l nasal/stop variation./	/
'sew'	*krwi(y)	khri ⁵³	pKC *khruy
	/This etymon was lab	eled "Kuki-Naga" in	STC, despite its citation of Jg. tšwi ~ tšəwi ./
'sharp'	*tak	a ³¹ tua ⁵³	WB thak, Lh. thâ?
	/STC (p. 87) consider	red this root to be rest	ricted to Lolo-Burmese/
'short'	*g-dun	a ³¹ tuŋ ³³	Jg. gədùn ≍ kədùn
	/Not in STC or HPTE	3./	
ʻsit'	*duŋ/k × *tuŋ/k	toŋ ⁵⁵	Jg. dūŋ, WB thuiŋ, WT ḥtug
	/See HPTB: 288, who	ere the Sulung form is	cited./
'sky'	*r-məw	kə ³¹ məŋ ⁵³	WT rmu-ba, WB mûi, Lh. mû
	/Sulung -ŋ might be a	due to allophonic nasa	lization of the vowel after the nasal initial./
'slowly'	*zya-zya	dze ⁵⁵ dze ⁵⁵	Lh. a-yé-yé , Lisu a-zá-zá , Phowa zē-zē
	/Not in STC or HPTE	3./	
'smell'	*m/s-nam	naŋ ⁵⁵	WT mnam-pa (v.i.) × snam-pa (v.t.); WB nam, Lh. nù
'son-in-law'	*s-mak	a ³¹ bua ⁵³	WT mag-pa, WB səmak, Lh. <i>ə-má-</i> pā
'spider/spin/spindle'	*р ^w aŋ	woŋ ⁵⁵ 'spider'	WT phaŋ, Jg. kəbāŋ, WB wâŋ, Lh. vô~yô
	/See STC #48, HPTB	3: 269./	
'spleen'	*pay	a ³¹ pie ⁵³ 'liver'	Mpi ?o?²phe ⁶ , Lh. ò-pe , Jg. kūm-pāi , OC *b'įĕg 脾
	/For semantic interch pp. 217ff./	ange between the sple	een and other internal organs, see VSTB,
'squirrel/rodent'	*rey × *reŋ	lui ³⁵	WT sre-mo(ŋ) , Mikir iŋ-ren , WB hrâñ, Mizo hlei, Tangkhul saŋ-ri
'star'	*gra:y	ha ³¹ yai ⁵³	WB krai, Lh. mð?-kə
	/HPTB: 212/		
'strength'	*ra	a ³¹ ha ¹⁵³	WB ?â , Lh. yâ
'sweat'	*grwəy	aŋ ³¹ t¢i ⁵³	WB khrwê , Lh. kī , Mara mathlai , Angami rükhru, Qiang χtşuə⁵ ⁵

/This etymon is an old loan from Mon-Khmer into ST/TB; its original meaning seems to

/See HPTB: 82, 102, 129, 195, 414./		
*ts(y)i ≍ *zəy	¢yai ⁵⁵	WT gtśi-ba, Jg. tśí, WB chî ≍ sê; Lh. j î
/See HPTB: 187./		
*s-tu	a ³¹ twi ⁵⁵	WT stu, rGyalrong təçtu, Meithei
		thù, Lisu <i>tu⁵⁵</i> bi ²¹
*rak × *t(r)ak	yua ⁵³	WT hthag-pa, Jg. dà?, WB rak, Lh. yà?,
		OC * î'jək 織
*?-ra (PLB)	ja? ⁵³	Lh. ha, Akha zá
	/See HPTB: 82, 102, 129 *ts(y)i × *zəy /See HPTB: 187./ *s-tu *rak × *t(r)ak *?-ra (PLB)	<pre>/See HPTB: 82, 102, 129, 195, 414./ *ts(y)i × *zəy çyai⁵⁵ /See HPTB: 187./ *s-tu a³¹tui⁵⁵ *rak × *t(r)ak yua⁵³ *?-ra (PLB) ja?⁵³</pre>

Notes

- 1) A previous version of this paper was presented at the *39th International Conference on Sino-Tibetan Languages and Linguistics*, University of Washington (Sept. 2006).
- 2) "Everything is in flux."
- 3) According to Ratliff, at least 50% of the words in any modern HM language are loans from Chinese.
- 4) Yet even this [+basic, +stable] class of words may include items shared with other language families. Thus the pHM roots for SUN/DAY, MOON/MONTH, SIX, SEVEN seem to be of Tibeto-Burman (TB) origin. FISH looks like the Proto-Tai-Kadai (= Proto-Kra) form. THREE resembles the Proto-Mon-Khmer etymon. FRUIT, MAGGOT, FLOWER look like Proto-Austronesian. BIRD, DIE/ KILL, EYE are shared by both Tai-Kadai and Austronesian, constituting some of the best examples supporting the "Austro-Tai-HM hypothesis" (Benedict 1975).
- 5) See Benedict (1972).
- 6) Bodman long ago convincingly suggested a relationship between this WT form and Chinese 赤 'red' (OC ***î'iăk**).
- 7) Cf. the "replacement tolerance quotient" (RTQ) discussed in Matisoff (1978) (VSTB: 95ff).
- 8) For many examples of Southeast Asian "Wanderwörter", see Benedict (1975: 35-133).
- 9) What Benjamin Lee Whorf (1956) referred to as "SAE" (Standard Average European) languages. An attempt to modify these lists to make them more suitable for languages of the East and Southeast Asian linguistic area was made in Matisoff (1978: 283–296), which contains an appendix called the "CALMSEA 200-word list" (an acronym for "Culturally Appropriate Lexicostatistical Model for Southeast Asia"), including words like MONKEY and BANANA, but excluding words like AT and SNOW. Some special problems that arise in attempting to apply the glottochronological approach to TB languages were discussed in Matisoff (2000).
- 10) Gérard Diffloth once mentioned to me that the roots for the extremely non-basic concepts for SCURF/DANDRUFF and SMEGMA were among the best attested of all words referring to the human body in the Aslian subgroup of Mon-Khmer.
- 11) See STC #278, where only the WT and Jg. forms are cited.
- 12) This is no doubt partly because the concept of SKIN impinges on other semantic fields, e.g. the outer coverings of objects like the bark of trees, peels of fruit, husks of maize. A graduate seminar I organized at Berkeley in the spring semester of 2007–08, called "Epidermal etymologies", was devoted to this very topic.
- 13) There is an extended discussion of this point in Matisoff (1978: 141ff).
- 14) See Matisoff (1986), VanBik (1998). Japanese has fewer psycho-collocations than Chin languages,

although they certainly exist, e.g. kimo ga chiisai 'be timid' ("liver is small").

- 15) See the remark under Pronouns, below.
- 16) Cf. Burling's "SAL languages" (1983), a suggested genetic grouping of Jingpho, Bodo-Garo, and Northern Naga, on the basis of shared idiosyncratic etyma, especially the root *sal SUN.
- 17) Reflexes of this etymon often have the verbal meaning of 'spend the night'.
- 18) It is important to avoid serving food items in groups of four, in favor of groups of three or five.
- Probably for this same reason, the numerals from SIX to TEN are not included in the standard Swadesh lists.
- 20) See Matisoff (1997, sections 3.1-3.54).
- 21) I have heard that in some Amerindian languages which distinguish between alienable and inalienable possession, NAME is treated just as inalienably as body-parts.
- See the definition of Lahu nâ?-chî, the second syllable of which is a reflex of this etymon (Matisoff 1988: 754).
- 23) The Lahu noun **à-tà?-ma** 'poison' adds a prefix and a suffix to this root.
- 24) See Cook (2003, p. 526 {ajy}, p. 1556 {niv}).
- 25) Greenberg's vast chimerical construct "Amerind" also predominantly has nasals in 1st and 2nd person morphemes, but one position of articulation further front than in TB/ST, with n- characteristic of the 1st person, and m- of the 2nd. See Matisoff (1990), and the sets for NAME and DREAM, below.
- 26) E.g., French *il* 'he' < Latin *ille* 'that'; Mandarin *tā* 他 '3rd person pronoun', originally 'other' (cf. Japanese *hoka* 'other', usually written with the same character).
- 27) Boyd Michailovsky has produced a valuable draft of such a study, still unpublished.
- 28) See Matisoff (2001).
- 29) Actually Jinuo is not such an atypical LB language as I had thought, as demonstrated by Hayashi (2008), who has solved such problems as the conditioning factors for Jinuo tonal developments.
- 30) Starostin and Peiros (1996) use four out of these five TB languages, omitting Garo.
- 31) We still lack compendious dictionaries of Barish languages, although R. Burling has been working on comparative Bodo-Garo since the late 1950's. See Burling (1959, 2004).
- 32) The autonym of this large group is pi³⁵tsi⁵⁵kha²¹. Although they number about 3 million (est. 1982), most of them now use Chinese as their dominant language; some even use Chinese characters to write Tujia. See Tian Desheng *et al.* (1986) and He Tianzhen (1987, 1994). The latter scholar believes Tujia to be close to the Qiangic group.
- 33) For present purposes I see no problem in using Karlgren's OC reconstructions. The numerous revisions to his system made by subsequent scholars will not significantly affect cognacy judgments for the very common roots in question.
- 34) In the following sets, forms in square brackets [] are deemed not to descend from the etymon in question, e.g., WT 'blood', Sulung 'tooth', Jingpho 'sun'. Words in parentheses () are from individual languages rather than reconstructed proto-forms, e.g., Tamang 'dog', Yellow Lahu 'husband/male', Tamang 'smoke'.
- 35) These initials stand for the three Bai dialects for which copious data are available: D = Dali, B = Bijiang, J = Jianchuan. See Xu and Zhao (1984).
- 36) This root, which seems to underlie the pKC and Sulung forms, is reconstructed in Matisoff (1985b: 431–432) and in HPTB: 365.
- 37) Curiously, the Tujia form for LEG is a³¹læ⁵³, which looks like it might descend from *lak.

- 38) This morpheme occurs in a³¹mun⁵⁵ 'beard', guk³³mun⁵⁵ 'eyelash', and pauk³³a³¹mun⁵⁵ 'nose hair'.
- 39) Benedict revised the GSR reconstruction to *djək because the character 選 'sound of marching' occurs in the same phonetic series, and is reconstructed as *t'jək; but this is really immaterial, since a velar prefix is also attested in TB.
- 40) See LICK, below.
- 41) It is not clear which syllable of these Tujia forms are reflexes of our etymon.
- 42) The cognacy of this Chinese form to PTB ***g-na** is doubtful. It was posited by Benedict largely on the basis of the graphic element 自 in the character 鼻 'nose' (STC p. 177, n. 471). *Shuo Wen* does define 自 as 鼻 (see Cook 2003, p. 780 {dpn}, p. 782 {dpz}). It is true that some E. Asians point to their nose when they mean 'myself'!
- 43) It is possible that Sulong b- is a reflex of PTB *k^w- (cf. Lahu phi).
- 44) Other putative allofams of this root include ***kå** 豭 'male pig, boar'; ***g'wân** 豲 'kind of pig', and ***på** 豝 'sow, pig'.
- 45) STC derives the OC form from *p-səy (n. 436, p. 162), though this seems less plausible.
- 46) This form means 'lightning-flash'.
- 47) STC (pp. 164, 180) makes a rather tortured attempt to relate Chinese 烟 *?ien to PTB *mey.
- 48) Jäschke (1958: 253) cites a Persian comparandum (in Arabic script) for these Tibetan words. Sulung du³³wa⁵³ seems clearly to be a borrowing from Tibetan.
- 49) These forms (< Chinese) are the 2nd syllables of compounds whose first constituent is FIRE [q.v.].
- 50) A nasal-final allofam is attested not only in OC, but in forms like Sunwar kun, Newari kin.
- 51) This word is derived from the Jg. verb tà 'to build a house'.
- 52) This is not a respectful term. The Risiangku form is glossed as 'partenaire sexuel mâle d'un animal; mari' (Mazaudon 1994, Vol. II: 115).
- 53) This root is set up in STC (n. 99, p. 31) to accommodate Rawang bin, Trung aŋ-prəŋ, Lepcha bryaŋ; the Sulong form may now be added to these. This root does not appear as such in HPTB; but I have suggested long ago that it is connected to *braŋ 'give birth' (see STC, *ibid.*).
- 54) Cf. WB lu 'person'.
- 55) These Jg. forms are undoubtedly borrowings from Burmese, since PTB *-k regularly > Jg. -? (STC n. 50, p. 14).
- 56) These forms are probably from Chinese.
- 57) These forms look like loans from Chinese.
- 58) The first syllables of the Lolo-Burmese, Jingpho, and pTani forms mean SLEEP.
- 59) This form means 'feed with the mouth'.
- 60) Other allofams of this etymon include ***dzjəg** 釟 'feed, give food to' and ***ts'ân** 餐 'food, meal, eat'.
- 61) pKC *ruu/*ruuk probably descends from a separate root (see STC p. 144, HPTB: 80).
- 62) For the multifarious reflexes of this etymon, see Matisoff (1985a).
- 63) Cf. also Karen -wé- 'reported speech'.
- 64) PKB revised this reconstruction to ***sgjwər**. Allofamically related is ***g'iwəd** 惠. See Matisoff (1985a: 58 *et seq.*), and the Appendix by Richard Kunst (pp. 66–69).
- 65) There is a long list of Chinese characters with negative meanings and labial initials: *piwət 弗 'not'; *pwət 不 'id.'; *piug 否 'id.'; *piwər 非 'it is not'; *miwəd 未 'not yet'; *miwət 勿 'negative

imperative'; ***miwo** 无 'not have; not, no; neg. impv.'; ***miwo** 無 'not have, not'; ***miwo** 毋 'do not, not', etc. See Matisoff (1985a, n. 98).

- 66) Cf. also Meche (Bodo-Garo group) da.
- 67) See Li Daqin (2004: 138).
- 68) A similar phenomenon has been noted for Bisu (S. Loloish group). See HPTB: 38–39. However, the conditioning for the denasalization is subtly different in the two languages. In Bisu it is not the combination of an initial and a final nasal that blocks the change, but rather the nature of the nasal at the pLB level: if the nasal is simple, it gets denasalized in Bisu; if it is complex (aspirated or preglottalized), the Bisu reflex remains a nasal. See Matisoff (1979).
- 69) See Matisoff (2004b). For that matter, something similar seems to be characteristic of Tujia, e.g., 'animal' *sya > Tuj. si²¹.

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