stable roots in sino-tibetan/tibeto-burman

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Stable Roots in Sino-Tibetan/Tibeto-Burman

James A. Matisoff
University of California, Berkeley

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

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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-hyway) 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 *kyan ‘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:

<table>
<thead>
<tr>
<th>stable</th>
<th>non-stable</th>
<th>stable</th>
<th>non-stable</th>
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<tbody>
<tr>
<td>FRUIT</td>
<td>TREE</td>
<td>WAIST</td>
<td>NECK</td>
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<tr>
<td>TAIL</td>
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<td>WING</td>
<td>ARM</td>
<td>BOY</td>
<td>GIRL</td>
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<tr>
<td>HAIR</td>
<td>HEAD</td>
<td>RICE</td>
<td>MEAT</td>
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</tbody>
</table>

It is this unpredictability which motivates Ratliff’s idea that lexical stability is family-specific, 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 tsǐ?-ru ‘nit’ (tsǐ? ‘louse’), as well as in Lushai (Mizo) hrū, and several rGyalrongic forms supplied by J. Sun (Puxi jvʊ̃, Caodeng ndʒru?, Muerzong sra?).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 *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? 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 psycho-collocations.

2.6 Phonological Variation within an Etymon
Some roots show a great deal of allofamic variation, e.g. SUCK / KISS / BREAST (*dz(y)oŋp ≠ *ts(y)oŋp ≠ *dz(y)ow ≠ *dzip ≠ *dzup ≠ *dzyuk ≠ *dzyut, etc.); FIRE / WHITE / SHINY (*bₙar ≠ *pₙar ≠ *hwal ≠ *hwar ≠ *war ≠ *ʔur, 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 bži, Lahu ǝ four’ < pTB *b-lay.

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-hyway 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.

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.
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 (9)
   - TWO; THREE; FOUR; FIVE; SIX; SEVEN; EIGHT; NINE; HUNDRED

(D) Natural objects and units of time (7)
   - DAY (of 24 hours)?; 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 × 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, 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.

Rejects:
ONE and TEN: there are several competing roots for each. TEN is actually a classifier in many languages.
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/PERSOE; 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 *tsay 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 ≠ *tuk) may also be considered a kind of ingestible, an “anti-food” as it were. The Lahu reflex t3ʔ sometimes means ‘be revolted by food, as a pregnant woman’. 23) I've always been interested in the fact that 毒, the Chinese character for POISON, contains the element 母 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 1st (*ŋa-y) and 2nd (*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, 1st and 2nd person pronouns are more conservative than 3rd, 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 3rd 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 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**

- **pTB** *s-hywəy
- **WT** [khrag]
- **WB** swə; Lh. ʂɨ
- **Jg.** sāi
- **pKC** *thii
- **pNN** *C-hawy
- **pKar** *swiq
- **pTmc** [*θaː]
- **pTani** *vi:
- **Bai** suɑ44 (D, B, J)
- **Tuj.** [mie53]
- **Sul.** hui53
- **OC** *xiwet 血

**bone**

- **pTB** *s-rus ǂ *m-rus ǂ *g-rus
- **WT** rus-pa
- **WB** rū; Lh. ɣɔ
- **Jg.** ŋrūt
- **pKC** *ru?
- **pNN** [*raŋ]
- **pKar** *xwik (pPwo); xi (pSgaw)
- **pTmc** (Tamang -ru in compounds)
- **pTani** [*loŋ]
- **Bai** kuŋ3ti42 (J)
- **Tuj.** lu5ka55; kʰa21ku21
- **Sul.** a31zai55
- **OC** *kwət 骨

**ear**

- **pTB** *r-na
- **WT** rna-ba
- **WB** nā; Lh. nā-pə
- **Jg.** nā
- **pKC** *na, *hna
- **pNN** *na:
- **pKar** *nā’
- **pTmc** [*na; *Anak
- **pTani** *na; *Anak
- **Bai** nu33to42
- **Tuj.** [tsa21pu]
- **Sul.** [a31ku55]
- **OC** *niag 耳

**eye**

- **pTB** *s-mik ǂ *s-myak
- **WT** mig
- **WB** myak; Lh. mē?
- **Jg.** myi?
- **pKC** *mik
- **pNN** *mek
- **pKar** *mē? (Pho); *mē? (Sgaw)
- **pTmc** *Bhmi:
- **pTani** *mik
- **Bai** mi34 (D, J)
- **Tuj.** [lo5pu55]
- **Sul.** [a31gu55]
- **OC** *mjək 目

**hair (body)/fur/feather**

- **pTB** *mil ǂ *mul
- **WT** [spu]
- **WB** mwē; Lh. mu
- **Jg.** mūn
- **pKC** *mul, *hmul
- **pNN** *mul
- **pKar** [*chr̃nq]
- **pTmc** [*θmwi
- **pTani** *mut
- **Bai** ma21 (D, J), mie21 (B)
- **Tuj.** [si35ka55]
- **Sul.** mun55
- **OC** *mog 毛 ǂ *mər 眉 ‘eyebrow’

**hand**

- **pTB** *l(y)ak ǂ *dyak; [*k(r)ut 35]
- **WT** lag-pa
- **WB** lak; Lh. là?
- **Jg.** lɔtā?
- **pKC** [*kut, *khut]
- **pNN** *głaḵ
- **pKar** [*cůn]
- **pTmc** *Apja:
- **pTani** *lak
- **Bai** ma33 (D, J), ʂɛ33 (B)
- **Tuj.** [a3dze55; tɛ35]
- **Sul.** [gɪ55]
- **OC** *gək 翼 ‘wing’ 39
5.2 Animals (5)
ANIMAL; DOG; FISH; PIG; SNAKE

**animal/meat/flesh**

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<thead>
<tr>
<th>Language</th>
<th>Meanings</th>
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<td>pTB</td>
<td>*syā-n</td>
</tr>
<tr>
<td>WT</td>
<td>ša</td>
</tr>
<tr>
<td>WB</td>
<td>sā; Lh. šā</td>
</tr>
<tr>
<td>Jg.</td>
<td>šān ‘meat’</td>
</tr>
<tr>
<td>pKC</td>
<td>*sʰaa</td>
</tr>
<tr>
<td>pNN</td>
<td>[*n̥am ‘game’; *mey ‘meat’]</td>
</tr>
<tr>
<td>pKar</td>
<td>[*n̥āq]</td>
</tr>
<tr>
<td>pTmc</td>
<td>*sʰja</td>
</tr>
<tr>
<td>pTani</td>
<td>[*dun ‘meat’]</td>
</tr>
<tr>
<td>Bai</td>
<td>[ke⁴¹ (D), ke²¹ (J), qa²¹ (B)]</td>
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**dog**

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<td>khwê; Lh. phi</td>
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<td>*ʔuy</td>
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<tr>
<td>pNN</td>
<td>*ku̞y</td>
</tr>
<tr>
<td>pKar</td>
<td>*thwîq</td>
</tr>
<tr>
<td>pTmc</td>
<td>(Tamang ‘nakʰi’)</td>
</tr>
<tr>
<td>pTani</td>
<td>kî</td>
</tr>
<tr>
<td>Bai</td>
<td>khu³³ (D); ku̞³³ (J); qhō³³ (B)</td>
</tr>
</tbody>
</table>
Stable Roots in Sino-Tibetan/Tibeto-Burman

Tuj. si¹¹
Sul. ----- 
OC *śiën 身 ‘body’

fish
pTB *g(y)a
WT nyla
WB Ṽâ; Lh. Ṽâ
Jg. Ṽá
pKC *ŋaa, *ŋhaa
pNN *ŋa
pKar jâq (pPho); ñá? (pSgaw)
pTmc (Tamang ʰtarγa)
pTani *ŋo
Bai ñv⁵⁵ (D, J), ñu⁵⁵ (J)
Tuj. [soŋ⁵⁵]
Sul. [kaŋ³fuaŋ³]
OC *ŋjo 魚

snake/vermin
pTB *s-b-rul
WT sbrul
WB mrwe; Lh. vê
Jg. lapù
pKC *ruul
pNN *ʔ-baw
pKar *rú'
pTmc (Tamang rul ‘gros serpent’)
pTani *buu
Bai khv³³ (D, J); fy³³ (B)
Tuj. wo⁶⁵
Sul. puḥ³³
OC [*d˙ja 蛇]

5.3 Numerals (6)
THREE; FOUR; FIVE; SIX; EIGHT; HUNDRED

three
pTB *g-sum
WT gsum
WB süm; Lh. šê?, šê
Jg. māsüm
pKC *p-thum
pNN *C-sum

four
pTB *b-lay
WT bţi
WB lê; Lh. ʂ
Jg. məli
pKC *p-lii
pNN *baḷay
5.4 Natural Objects and Units of Time (5)

5.4.1 Natural Objects

<table>
<thead>
<tr>
<th>Object</th>
<th>pKar</th>
<th>pTmc</th>
<th>pTani</th>
<th>Bai</th>
<th>Tuj.</th>
<th>Sul.</th>
<th>OC</th>
<th>Notes</th>
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<tbody>
<tr>
<td>5.4 Natural Objects and Units of Time (5)</td>
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<tr>
<td>day (24 hours); FIRE; MON/MONTH; SMOKE; SUN/DAYTIME</td>
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<tr>
<td>day (24 hours)/spend the night</td>
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<tr>
<td>pTB</td>
<td>*r(y)ak</td>
<td>pTB</td>
<td>*mey; [*bar ≠ *par]</td>
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<tr>
<td>WT</td>
<td>žag</td>
<td>WT</td>
<td>me</td>
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</tr>
</tbody>
</table>
WB rak; Lh. há
Jg. yá?
pKC *riak
pNN *C-ya ‘night’
pKar -----
Pmc -----
Pani *jo ‘night’ [*lo ‘day’]
Bai jo53 xu (D) ‘night’
Tuj. -----
Sul. [a31h i53 ‘day’; a31 j et53 ‘night’]
OC *sjok

moon/month

pTB *s-la × *g-la
WT zla-ba
WB la’; Lh. ha-pa
Jg. šťă
pKC *khlaa
pNN *gla
pKar *la’ (PPho); lá (pSgaw)
Pmc *mθla
Pani *po-lo
Bai [mi54 xu44 (J)]
Tuj. su21 su21; lo53 cī55 do55
Sul. [aŋ33 bo55]
OC [ŋjwat]

sun/daytime

pTB *nay
WT nỳi-ma
WB ne ‘sun’ × ne’ ‘day’; Lh. ni ‘day’, mů-nil ‘sun’
Jg. ni ‘day’, [jăn ‘sun’]
pKC *nii
pNN *C-ni
pKar ni’
Pmc (Tamang 4ni-ra)
Pani *nì ‘sun’
Bai nǐ44 (D, B)
Tuj. níe55, ne55
Sul. kət51 rit55 ‘sun’
OC *nīet
5.5 People and habitation (6)

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

<table>
<thead>
<tr>
<th>term</th>
<th>TB</th>
<th>WT</th>
<th>WB</th>
<th>Jg.</th>
<th>pKC</th>
<th>pNN</th>
<th>pKar</th>
<th>pTmc</th>
<th>pTani</th>
</tr>
</thead>
<tbody>
<tr>
<td>child/son</td>
<td>*tsa =&gt; *za</td>
<td>tsha-bo ‘grandchild’</td>
<td>sā; Lh. yā</td>
<td>ʂà</td>
<td>*baa</td>
<td>*C-dza ‘son’</td>
<td>phóq-ðaq (pPho; pSgaw)</td>
<td>*dza</td>
<td>*fi</td>
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<td></td>
<td>pTB *k-yim =&gt; *k-yum</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTmc</td>
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<tr>
<td></td>
<td>*k-yim</td>
<td>xim</td>
<td>?im; Lh. yē</td>
<td>[ŋ-tå] 51</td>
<td>*Im</td>
<td>*kium</td>
<td>*yēq (pPho)</td>
<td>**dim</td>
<td>-----</td>
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<td></td>
<td>pTB *r-mi(y)</td>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTani</td>
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<td></td>
<td></td>
<td>*mi</td>
<td>[l]u</td>
<td>[måśà]</td>
<td>*mi</td>
<td>*C-may</td>
<td>[*pya (pSgaw)]</td>
<td>**mi(t)</td>
<td>*mi</td>
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<td>pTB *r-mič; [*s-brań] 53</td>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
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<td></td>
<td>*mi</td>
<td>mi</td>
<td>mi</td>
<td>mañ, hmañ; Lh. mē</td>
<td>*mi</td>
<td>*min</td>
<td>*mɛn’</td>
<td>*mi</td>
<td>*mɛn’</td>
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<td>pTB *baw =&gt; *paw</td>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTani</td>
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<td></td>
<td>*paw</td>
<td>phu-bo ‘elder brother’</td>
<td>?aphū; Lh. 3-pū ‘grandfather’</td>
<td>phû ‘elder brother’</td>
<td>*puu</td>
<td>*paw</td>
<td>*phû</td>
<td>*paw</td>
<td>*phû</td>
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<td></td>
<td>pTB *k-yim =&gt; *k-yum</td>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTani</td>
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<tr>
<td></td>
<td>*k-yim</td>
<td>mi</td>
<td>mi</td>
<td>mañ, hmañ; Lh. mē</td>
<td>*mi</td>
<td>*min</td>
<td>*mɛn’</td>
<td>*mi</td>
<td>*mɛn’</td>
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</table>
Stable Roots in Sino-Tibetan/Tibeto-Burman

5.6 Plants and Ingestibles (2)
MEDICINE; POISON

<table>
<thead>
<tr>
<th>Language</th>
<th>Medicine/paint/juice</th>
<th>Poison</th>
</tr>
</thead>
<tbody>
<tr>
<td>pTB</td>
<td>*tsay; [*s-man]</td>
<td>*duk ≠ *tuk</td>
</tr>
<tr>
<td>WT</td>
<td>rtsi; [sman]</td>
<td>dug</td>
</tr>
<tr>
<td>WB</td>
<td>chê; Lh. nāʔ-chî</td>
<td>tauk; Lh. tâʔ</td>
</tr>
<tr>
<td>Jg.</td>
<td>tsi ‘medicine’, mätsi ‘yeast’</td>
<td>[tûk, nû-tûk, nîq-tûk]</td>
</tr>
<tr>
<td>pKC</td>
<td>(Lai sîi)</td>
<td>[tuur; *ruu]</td>
</tr>
<tr>
<td>pNN</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>pKar</td>
<td>kaøi, tøi (Sgaw)</td>
<td>*cûq</td>
</tr>
<tr>
<td>pTmc</td>
<td>[*Ahman]</td>
<td>(Tamang *pik)</td>
</tr>
<tr>
<td>pTani</td>
<td>-----</td>
<td>*duk; [*mro]</td>
</tr>
<tr>
<td>Bai</td>
<td>[jø44 (&lt; Chinese)]</td>
<td>[tv53 (D), du*[33 (B), tu65 (J)]</td>
</tr>
<tr>
<td>Tuj.</td>
<td>se21; se35</td>
<td>[tu21; tu35] (&lt; Chinese)</td>
</tr>
<tr>
<td>Sul.</td>
<td>çø33min65</td>
<td>dø33døk55</td>
</tr>
<tr>
<td>OC</td>
<td>*ts’jet 漆 ‘varnish’</td>
<td>OC *d’ôk 毒</td>
</tr>
</tbody>
</table>

5.7 Pronouns (2)

1st person

<table>
<thead>
<tr>
<th>Language</th>
<th>2nd person</th>
</tr>
</thead>
<tbody>
<tr>
<td>pTB</td>
<td>*ña-y; [*ka-y]</td>
</tr>
<tr>
<td>WT</td>
<td>ɲa; ɲêd</td>
</tr>
<tr>
<td>WB</td>
<td>ɲa; Lh. ña</td>
</tr>
<tr>
<td>Jg.</td>
<td>ñäi</td>
</tr>
<tr>
<td>pKC</td>
<td>[*kay-ma?]</td>
</tr>
<tr>
<td>pNN</td>
<td>*ña</td>
</tr>
<tr>
<td>pKar</td>
<td>jä’ (pPho); Ʉa? (pSgaw)</td>
</tr>
<tr>
<td>pTmc</td>
<td>*Ahŋa</td>
</tr>
<tr>
<td>pTani</td>
<td>*ŋo</td>
</tr>
<tr>
<td>Bai</td>
<td>ɲo31 (D, J), ɲo42 (B)</td>
</tr>
<tr>
<td>Tuj.</td>
<td>ɲa35; ɲo43</td>
</tr>
<tr>
<td>Sul.</td>
<td>goh55</td>
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<tr>
<td>OC</td>
<td>*ɲå 我 ≠ *ŋo 吾</td>
</tr>
</tbody>
</table>

5.8 Verbs (8)
BITTER; DIE; DREAM; EAT; ILL; KILL; LICK; STEAL
<table>
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<th>pTB</th>
<th>WT</th>
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<th>Jg.</th>
<th>pKC</th>
<th>pNN</th>
<th>pKar</th>
<th>pTmc</th>
<th>pTani</th>
<th>Bai</th>
<th>Tuj.</th>
<th>Sul.</th>
<th>OC</th>
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<tbody>
<tr>
<td><strong>bitter</strong></td>
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<tr>
<td>*ka-n</td>
<td>kha-ba</td>
<td>khâ; Lh. qhâ</td>
<td>khâ</td>
<td>*khaa</td>
<td>*C-kha</td>
<td>*khâq</td>
<td>*kam</td>
<td>*ka-</td>
<td>[khu(^{33}) (D, J), qhu(^{43}) (B)] (^{57})</td>
<td>khé(^{55}); khé(^{55})tsi(^{55})tsi(^{55})</td>
<td>[a(^{3})dziu(^{53})]</td>
<td>*k‘o ‘bitter’ 腦 ө *kân 肝 ‘liver’</td>
</tr>
<tr>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTmc</td>
<td>pTani</td>
<td>Bai</td>
<td>Tuj.</td>
<td>Sul.</td>
<td>OC</td>
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<tr>
<td><strong>die</strong></td>
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<tr>
<td>*say</td>
<td>śi-ba</td>
<td>se; Lh. ši</td>
<td>sī</td>
<td>*thii</td>
<td>*sāy</td>
<td>*sīh</td>
<td>*sāi, *sī</td>
<td>*si</td>
<td>ēi(^{15}) (D, B, J)</td>
<td>se(^{31}); se(^{45})</td>
<td>ji(^{55})</td>
<td>*sjār 死</td>
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</table>

<table>
<thead>
<tr>
<th>pTB</th>
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<th>Jg.</th>
<th>pKC</th>
<th>pNN</th>
<th>pKar</th>
<th>pTmc</th>
<th>pTani</th>
<th>Bai</th>
<th>Tuj.</th>
<th>Sul.</th>
<th>OC</th>
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<td><strong>dream</strong></td>
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<tr>
<td>*r-maŋ</td>
<td>rman-λam; rmi-λam</td>
<td>rman-λam; rmi-λam</td>
<td>šá</td>
<td>*maŋ</td>
<td>*ma?</td>
<td>*mimān’ (pPho); mimā (pSg)</td>
<td>*maŋ, *maŋ</td>
<td>*jup-may</td>
<td>mu(^{53}) (D), mu(^{42}) (B); mu(^{31}) (J)</td>
<td>mu(^{55}); mu(^{21})tsi(^{21})</td>
<td>mə(^{53})bak(^{53})</td>
<td>*mjūŋ 梦</td>
</tr>
<tr>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTmc</td>
<td>pTani</td>
<td>Bai</td>
<td>Tuj.</td>
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<td>OC</td>
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<td><strong>eat</strong></td>
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<tr>
<td>*g-sat</td>
<td>za-ba</td>
<td>cá; Lh. cá</td>
<td>šá</td>
<td>*dzya</td>
<td>*dza</td>
<td>*dza</td>
<td>*Do</td>
<td>*do</td>
<td>mu(^{53}) (D), mu(^{42}) (B); mu(^{31}) (J)</td>
<td>jiu(^{44}) (D, J), jī(^{55}) (B)</td>
<td>teih(^{53})</td>
<td>*djak 食</td>
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<thead>
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<th>Jg.</th>
<th>pKC</th>
<th>pNN</th>
<th>pKar</th>
<th>pTmc</th>
<th>pTani</th>
<th>Bai</th>
<th>Tuj.</th>
<th>Sul.</th>
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<tr>
<td><strong>ill</strong></td>
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<tr>
<td>*na ≠ *nan ≠ *nat</td>
<td>na-ba; nad-pa</td>
<td>na, ?na; Lh. nà</td>
<td>nā</td>
<td>*naa; *nat</td>
<td>[*C-daik; *dzat]</td>
<td>[*chāh]</td>
<td>*na, *Anak, *A/BlNa(t)</td>
<td>[*ki]</td>
<td>[pə (D), sī(^{31}) (J), sō(^{42}) (B)]</td>
<td>[Ɂ(^{15}); d(^{21})]</td>
<td>[yān(^{55})]</td>
<td>nān 難 ‘difficulty, suffering’</td>
</tr>
<tr>
<td>pTB</td>
<td>WT</td>
<td>WB</td>
<td>Jg.</td>
<td>pKC</td>
<td>pNN</td>
<td>pKar</td>
<td>pTmc</td>
<td>pTani</td>
<td>Bai</td>
<td>Tuj.</td>
<td>Sul.</td>
<td>OC</td>
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<td><strong>kill</strong></td>
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<tr>
<td>*g-sat</td>
<td>gsd-pa, bsad</td>
<td>sat</td>
<td>sāt</td>
<td>*that</td>
<td>*?-sot</td>
<td>mañi (pPho); màñi (pSgaw)</td>
<td>*Asat</td>
<td>[*man]</td>
<td>[có(^{44})] (&lt; Chinese)</td>
<td>[pù(^{35}); ?(^{13})]</td>
<td>wa’t</td>
<td>*sat 殺</td>
</tr>
</tbody>
</table>
lick/tongue

pTB *m-lyak; *s-lyam
WT ldag-pa ‘lick’, ljags ‘tongue’
WB lyak; Lh. lē?, lē
Jg. matā?
pKC *liak
pNN *C-glay
pKar lé? (pSgaw); lēnq (pPho)
pTmc *lem
pTani *ryak
Bai tsi33 (D, J), dzē33jī55 (B)
Tuj. lo31; la35
Sul. via55; lau55
OC *dįat 舌 (< g’lijak)

steal

pTB *r-kəw
WT rku-ba
WB lágú (v.); lágút ‘thief’
Jg. (Lai fiir-khûu ‘thief’) 61)
pKC *r-kə
pNN *C-ka
pKar *-yũq (pPho); *χỹ? (pSgaw)
pTmc *Alem; *A/Bkhuk
pTani [*pjoŋ]
Bai [tō31 (D, J), die42 (B)]
Tuj. yəe35; ?e55
Sul. yah55
OC *k’u 寇

5.9 Abstract (3)
COPULA; NEGATIVE; NEGATIVE IMPERATIVE

copula 62)
pTB *way ≠ *ray
WT red-pa, re-pa
WB kai ≠ rai; Lh. ve ≠ yì
Jg. ai; rái
pKC (Lu. e ~ ve)
pNN *ley
pKar *ǒq (pPho); *ʔǒʔ (pSgaw) 63)
pTmc [Tamang ‘mu; ‘hin]
pTani -----   
Bai [tsō33 (D), tsu33 (J), dqō33 (B)]
Tuj. siu35; sī31 [< Chinese]
Sul. wī35
OC *djwar 64) 惟維唯佐

negative

pTB *ma
WT ma, mi
WB ma; Lh. mà
Jg. ñ-
pKC [*law]
pNN -----   
pKar [*ʔčʔ(PhO), *ʔʔʔ (pSgaw)]
pTmc (Tamang 3a)
pTani -----   
Bai mu33 (D); ju35, a21 (J), a42 (B)
Tuj. ma55
Sul. ba31
OC *mjwo, etc. 65)

negative imperative

pTB *ta ≠ *da 66)
WT [ma + Vimp/Prt]
WB (Lahu tā)
Jg. [khûm]
pKC -----   
pNN -----   
pKar -----   
pTmc (Tamang 4ta)
pTani -----   
Bai [nə4pu31 (D), mia44 (J), a42nu44 (B)]
Tuj. tha55; ta21
Sul. [ba31 ... bo33 ] 67)
OC /see note 65/
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 language-group 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:

<table>
<thead>
<tr>
<th>CHILD/SON</th>
<th>*tsa ≠ *za</th>
<th>HUSBAND/MALE</th>
<th>*pʷa</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE</td>
<td>*say</td>
<td>NAME</td>
<td>*r-miŋ</td>
</tr>
<tr>
<td>DOG</td>
<td>*kʷay</td>
<td>SIX</td>
<td>*d-k-ruk</td>
</tr>
<tr>
<td>DREAM</td>
<td>*r-maŋ</td>
<td>SNAKE</td>
<td>*s-b-rul</td>
</tr>
<tr>
<td>EIGHT</td>
<td>*b-r-gyat</td>
<td>TONGUE/LICK</td>
<td>*l(y)a ≠ *lay ≠ *ley ≠ *m-lyak</td>
</tr>
<tr>
<td>FIVE</td>
<td>*b/l-ŋa</td>
<td>YOU</td>
<td>*naŋ</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>pTB</th>
<th>Sulung</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘fire’</td>
<td>*mey</td>
</tr>
<tr>
<td>‘person’</td>
<td>*r-mi(y)</td>
</tr>
<tr>
<td>‘son-in-law’</td>
<td>*s-mak</td>
</tr>
<tr>
<td>‘dream’</td>
<td>*r-maŋ (PLB *s-mak)</td>
</tr>
<tr>
<td>‘negative’</td>
<td>*ma</td>
</tr>
<tr>
<td>‘1st person’</td>
<td>*ŋa</td>
</tr>
</tbody>
</table>

Exceptions:

<table>
<thead>
<tr>
<th></th>
<th>*s-maŋ</th>
<th>çå(^{45})muaj(^{55})</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘corpse’</td>
<td>*m/s-nam</td>
<td>naq(^{55})</td>
</tr>
<tr>
<td>‘cooked/ripe’</td>
<td>*s-min</td>
<td>a(^{31})min(^{55})</td>
</tr>
</tbody>
</table>

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 yî?-mâ?).

(2) Brightening

Sulung seems to show “brightening” of PTB *-a > -i, as is characteristic of the Qiangic languages, e.g., ‘eat’ Sul. tçîh\(^{53}\) < *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 çun\(^{55}\) ‘one’, yûk\(^{55}\) ‘three’, lie\(^{55}\) ‘seven’, duaj\(^{31}\)a\(^{45}\) ‘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)
PKB    Paul K. Benedict
pKC    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)
pTB    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
### Appendix: More Sulung Reflexes of Well-established PTB Roots

<table>
<thead>
<tr>
<th>PTB</th>
<th>Suluŋ</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘arrow’</td>
<td>*m-da</td>
<td>mi³⁹ta⁵⁵</td>
</tr>
<tr>
<td>‘axe’</td>
<td>*p⁶⁰a</td>
<td>ba⁵³</td>
</tr>
<tr>
<td>‘bee’</td>
<td>*kwa_y *gwya</td>
<td>kua⁵⁵ñuai⁵³</td>
</tr>
<tr>
<td>‘bent/crooked’</td>
<td>guk *kuk</td>
<td>a³⁹gok⁵³</td>
</tr>
<tr>
<td>‘bird’</td>
<td>*daw *dow</td>
<td>pu⁵¹tu⁵⁵</td>
</tr>
<tr>
<td>‘bow’</td>
<td>*d-lay</td>
<td>lei⁵³</td>
</tr>
<tr>
<td>‘buy’</td>
<td>*ywar</td>
<td>ve⁵⁵</td>
</tr>
<tr>
<td>‘cattle/livestock’</td>
<td>*dzay</td>
<td>či⁵⁵</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘chew’</td>
<td>*m-ğ³ya</td>
<td>we⁵⁵</td>
</tr>
<tr>
<td>‘child/nephew/ descendant’</td>
<td>*m-du *m-tu</td>
<td>a¹⁴du⁵⁵</td>
</tr>
<tr>
<td>‘cloud’</td>
<td>*dim</td>
<td>k³¹tu⁵⁵</td>
</tr>
<tr>
<td>‘corpse’</td>
<td>*s-maŋ</td>
<td>ča³⁵muañ⁵⁵</td>
</tr>
<tr>
<td>‘fart’</td>
<td>*woy</td>
<td>ve⁵³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘fly’</td>
<td>*byam</td>
<td>pie⁵⁵</td>
</tr>
<tr>
<td>‘go/come/walk’</td>
<td>*s-wa</td>
<td>wu⁵⁹</td>
</tr>
<tr>
<td>‘good/well/properly’</td>
<td>*m-d(y)ak *lyakŋ</td>
<td>tak</td>
</tr>
<tr>
<td>‘head’</td>
<td>*m/s-gaw</td>
<td>a³⁹kau³¹</td>
</tr>
<tr>
<td>‘heart’</td>
<td>*m-luŋ</td>
<td>a³⁹luŋ⁵³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘heavy’</td>
<td>*s-lay</td>
<td>a³¹lei⁵³</td>
</tr>
<tr>
<td>‘knife-edge/sharpen/ whetstone’</td>
<td>*wi</td>
<td>tče³¹vé³¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘laugh’</td>
<td>*r(y)a(y)</td>
<td>yue⁵⁵</td>
</tr>
<tr>
<td>‘leech’</td>
<td>*k-r-wat</td>
<td>ku³¹vat⁵³</td>
</tr>
<tr>
<td>‘marrow’</td>
<td>*r-kliŋ</td>
<td>a³¹luaŋ³³</td>
</tr>
<tr>
<td>‘medicine’</td>
<td>*s-man</td>
<td>či³³min⁵³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘mortar’</td>
<td>*(t)s(um)</td>
<td>aŋ⁵⁵dzx⁴³¹</td>
</tr>
<tr>
<td>‘mountain’</td>
<td>*g(r)aŋ</td>
<td>graŋ³³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘navel’</td>
<td>*lasy *s-tay</td>
<td>a³⁹tu⁵³</td>
</tr>
<tr>
<td>‘near’</td>
<td>*nay *s-ney</td>
<td>a³¹ne³¹</td>
</tr>
<tr>
<td>‘otter’</td>
<td>*sram *ram</td>
<td>kua³⁶ba³¹ra³⁷³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘outer covering’</td>
<td>*kok *kwaŋ</td>
<td>(a³¹)kɔ³¹⁵⁸</td>
</tr>
<tr>
<td></td>
<td>‘bark of tree’</td>
<td>hren³¹kɔ³¹</td>
</tr>
<tr>
<td></td>
<td>‘eggshell’</td>
<td>mu₂⁴li³¹a³⁹kɔ⁵³</td>
</tr>
<tr>
<td></td>
<td>‘rind of fruit’</td>
<td>a³¹vai³⁸(kɔ³³</td>
</tr>
<tr>
<td>‘owl/bird of prey’</td>
<td>*g-łaŋ</td>
<td>mu₂⁴laŋ³³ ‘owl’</td>
</tr>
</tbody>
</table>

/stable Roots in Sino-Tibetan/Tibeto-Burman/
This etymon is an old loan from Mon-Khmer into ST/TB; its original meaning seems to have been 'eagle; vulture; bird of prey'. The first Sulung syllable *muu might be related to PKC *(h)muu 'hawk; bird of prey'.

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>Khami</th>
<th>Jg.</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>'pigeon/dove'</td>
<td>*m-kraw</td>
<td>ok56nuu*ko56</td>
<td>makhru, Lh. ĝu</td>
<td>marāu, Nung šaru, WB thāŋ-rū</td>
</tr>
<tr>
<td>'pine'</td>
<td>*raw × *row</td>
<td>tā1ru53</td>
<td>Jg. mārāu, Nung šaru, WB thāŋ-rū</td>
<td></td>
</tr>
</tbody>
</table>
| 'prefix' | *ʔ- | an53 | Mikir an-, Busu ʔan-, Phunoj ŋ-, Sangkong an55, Rawang an55, Lahu ʔ-
| 'moon' | an53bo55 | | |
| 'wind' | an53xun55 | | |

'See HPTB: 522.'

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
<th>Mizo</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>'ripe/cooked'</td>
<td>*s-min</td>
<td>a3min55</td>
<td>Jg. hmin, WB h(m)yaañ', Lh. me</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'roast'</td>
<td>*gaŋ × *kaŋ</td>
<td>gak55</td>
<td>Jg. kaŋ, Lh. qα, Mizo kaŋ</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

'This root shows final nasal/stop variation.'

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
</tr>
</thead>
<tbody>
<tr>
<td>'sew'</td>
<td>*krw(y)</td>
<td>krhī53</td>
<td>Jg. gōdūn × kōdūn</td>
<td></td>
</tr>
<tr>
<td>'sharp'</td>
<td>*tak</td>
<td>a3tua53</td>
<td>WB thak, Lh. thāʔ</td>
<td></td>
</tr>
<tr>
<td>'short'</td>
<td>*g-dun</td>
<td>a3tug53</td>
<td>Jg. gōdūn × kōdūn</td>
<td></td>
</tr>
</tbody>
</table>

(Not in STC or HPTB.)

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
</tr>
</thead>
<tbody>
<tr>
<td>'sit'</td>
<td>*duŋ/k × *tug/k</td>
<td>t nug56</td>
<td>Jg. dũŋ, WB thuŋ, WT ḏug</td>
<td></td>
</tr>
</tbody>
</table>

'See HPTB: 288, where the Sulung form is cited.'

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
<th>Mizo</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>'sky'</td>
<td>*r-maw</td>
<td>kā3maŋ53</td>
<td>Jg. kūm-pāi, Lh. mū</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'slowly'</td>
<td>*zya-zya</td>
<td>dze53dze55</td>
<td>Lh. a-yé-yē, Lisu a-zá-zá, Phowa zé-zé</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Not in STC or HPTB.)

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>YT</th>
<th>Jg.</th>
<th>Lh.</th>
<th>Mizo</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>'smell'</td>
<td>*m/s-nam</td>
<td>naŋ55</td>
<td>Jg. mag-pa, WB samak, Lh. ʔ-má-pā</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'son-in-law'</td>
<td>*s-mak</td>
<td>a3hua53</td>
<td>Jg. kābǎŋ, WB wǎŋ, Lh. ʔē</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'spider/spin/spindle'</td>
<td>*pʷaŋ</td>
<td>wōn55 'spider'</td>
<td>Jg. phāŋ, Lh. kābǎŋ, WB wǎŋ</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(See SSTC #48, HPTB: 269.)

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
</tr>
</thead>
<tbody>
<tr>
<td>'spleen'</td>
<td>*pay</td>
<td>a3pie53 'liver'</td>
<td>Jg. kūm-pāi, Lh. mū</td>
<td></td>
</tr>
</tbody>
</table>

(For semantic interchange between the spleen and other internal organs, see VSTB, pp. 217ff.)

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
<th>Mizo</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>'squirrel/rodent'</td>
<td>*reŋ × *reŋ-</td>
<td>lu58</td>
<td>Jg. hrei, WB hrāŋ, Mizo hlei, Tangkhul saŋ-rī</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'star'</td>
<td>*gra:y</td>
<td>ha31va53</td>
<td>WB krai, Lh. məʔ-kə</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(HPTB: 212)

<table>
<thead>
<tr>
<th>English</th>
<th>Sulung</th>
<th>WT</th>
<th>Jg.</th>
<th>Lh.</th>
<th>Mizo</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>'strength'</td>
<td>*ra</td>
<td>a3ha53</td>
<td>WB ŋâ, Lh. ŋâ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>'sweat'</td>
<td>*grway</td>
<td>a3tɕi53</td>
<td>WB khrwé, Lh. kī, Mara mathlai, Angami rūkhru, Qiang tɕua55</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

/Sulung -ŋ might be due to allophonic nasalization of the vowel after the nasal initial./

/Sulung -ŋ might be due to allophonic nasalization of the vowel after the nasal initial./
‘urine’  *ts(y)i × *zay  eyaiייט WT ֳ¥ֳ§יֳ® ֳ§יֳ®; Jg. ֳ§יֳ®; WB ֳ§יֳ® ֳ§יֳ®; Lh. ֳ§יֳ®

‘vagina’  *s-tu  aֳ®ֳ®יֳ® WT ֳ®ֳ® MT, rGyalrong ֳ®ֳ®; Meithein ֳ®ֳ®; Lisu ֳ®ֳ®; Lh. ֳ®ֳ®

‘weave’  *rak × *t(r)ak  yuaֳ® WT ֳ®ֳ® ֳ®ֳ®; Jg. ֳ®ֳ®; WB ֳ®ֳ®; Lh. ֳ®ֳ®; OC ֳ®ֳ®

‘winnow’  *ʔ-ra (PLB)  jaֳ® Lh. ֳ®ֳ®, Akha ֳ®ֳ®

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 ֳ®ֳ®).
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 Diffl oth 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.

19) 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.

22) 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 ñâ-tô?-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.


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 a3îlæ53, which looks like it might descend from *lak.
38) This morpheme occurs in a³m³un⁵⁵ ‘beard’, guk³²m³un⁵⁵ ‘eyelash’, and pauk³¹a³³m³un⁵⁵ ‘nose hair’.

39) Benedict revised the GSR reconstruction to *djak because the character 鼻 ‘sound of marching’ occurs in the same phonetic series, and is reconstructed as *t’jak; 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 *k³w- (cf. Lahu phi).

44) Other putative allofams of this root include *kâ 獵 ‘male pig, boar’; *g’wân 獬 ‘kind of pig’, and *pâ 獬 ‘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 to PTB *mey.

48) Jäschke (1958: 253) cites a Persian comparandum (in Arabic script) for these Tibetan words. Sulung du³wa³ 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.]. A nasal-final allofam is attested not only in OC, but in forms like Sunwar kun, Newari kières.

50) 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 biŋ, 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. -ʔ (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 *dzəg 飕 ‘feed, give food to’ and *ts’àn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 -wź- ‘reported speech’.

64) PKB revised this reconstruction to *sgwər. 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: *pjwat 弗 ‘not’; *pwat 不 ‘id.’; *piug 否 ‘id.’; *piwar 非 ‘it is not’; *miwəd 末 ‘not yet’; *miwat 勿 ‘negative
imperative’; *mjwo 无 ‘not have; not, no; neg. impv.’; *mjwo 無 ‘not have, not’; *mjwo 勿 ‘do not, not’, etc. See Matisoff (1985a, n. 98).

66) Cf. also Meche (Bodo-Garo group) da.


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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