Sino-Tibetan *Vulva1

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Abstract

This paper attempts the megalocomparison of the lexeme vulva across a number of languages distributed throughout East and Southeast Asia. The canonical syllable of Sino-Tibetan includes a possible prefix plus root; modern vulva forms from Sinitic and Tibeto-Burman languages suggest their historical source was a bi-syllabic morpheme which later split into two independent roots in some languages. The author tracks the surface similarities of forms in Sinitic and Tibeto-Burman languages which lead him to propose Sino-Tibetan *dzu(k) mat and Proto-Chinese *ts; mat land several variant proto-roots). These roots are based on modern forms from two major southern Sinitic languages, Min tsi1 mai1 and Kella ts11 piet7, and such Tibeto-Burman languages as Written Burmese tsok pat and Northern Hpun (Megyaw) tsù má?, zù? mà. The author suggests that Mandarin tgi1 pa9 "penis" also shares the same historical source but has undergone a process of phonetic attrition and semantic flip-flop. Many vulva forms distributed across genetically related and unrelated languages of Southeast Asia and Japan appear to be related either as cognates or contact loans. The Appendix listing forms from many languages and dialects of this broad geographical area concludes the paper.

I. Introduction

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This paper has three purposes: the main one is to propose a reconstruction for the Sino-Tibetan lexeme vulva based on the megalocomparison of vulva forms from many Sinitic and Tibeto-Burmar languages. To do this I have combined Greenberg's multilateral comparison ... a method that looks at everything at once ... at many languages across a few words (Greenberg 1987:23), with Buck's technique of sorting modern

¹ This is a much revised version of the paper I presented at the 21st International Conference on Sino-Tibetan Languages and Linguistics, Lund, Sweden, October 7, 1988. It was firs published in La Trobe Working Papers in Linguistics 3 (1990):151-169. My thanks to my colleagues Graham Scott for transforming my original Chiwriter file into Microsoft formal and Kate Burridge for editing the ms. for LTWPL

forms by their Indo-European etyma (Buck 1949).² My second purpose is much more modest: to revise Stimson's (1966) Middle Chinese reconstruction by drawing upon forms from a number of southern Chinese dialects which have since become available. And third, taking a cue from Matisoff's stimulating discussion of megalocomparison (1990). I have decided that while I was in the "hothouse homogenizing atmosphere of Southeast Asia" (Matisoff 1983:63) I might as well extend my net of megalocomparison and pull in phonosemantically similar forms from Benedict's Japanese/Austro-Tai family.

For Proto-Sino-Tibetan vulva I propose the reconstruction *dzuk mat: in addition, I propose several variant roots (for the proto-period and later), namely, *dzu mat, *dzuk, *dzu, *dzuk b(j)et, *dzu b(j)et *bat. *b(je)t. I do not claim that I have "reconstructed" these roots because my demonstration of correspondences between initials and vowels of the proto-roots and their modern forms is both limited and tentative. In speculating on what the phonetic shapes of these roots looked like, I have been mainly guided by the modern Sinitic material; however, in examining roots reconstructed by Tibeto-Burmanists who have worked out the sound correspondences, I have happily found a high degree of phonetic congruence between their roots and mine. What is unique about my "reconstruction" is that I have gone back one step before Tibeto-Burman bat in proposing a bilabial nasal stop initial for the root, i.e. *mat, from which the Tibeto-Burman and Sinitic reflexes of m-, b-, p-, ph-, h- are derived. The evidence for *m- comes mainly from modern Min on the Sinitic side and Northern Hpun (Megyaw) on the Tibeto-Burman side. The Appendix: Proto-Sino-Tibetan *Vulva at the end of this paper classifies the modern forms for vulva in a number of Sino-Tibetan languages (as well as some Austro-Tai languages which appear to have Sino-Tibetan loans) under their reconstructed roots.

At the outset, I would like to set forth clearly three points that have guided my thinking in this study of the historical development of vulva in Sino-Tibetan languages. First, in devising one Sino-Tibetan root from which all the forms in the modern Chinese dialects and many forms in the Tibeto Burman languages may be derived. I have in effect based the root on a unification theory which in itself may make it suspect. However, I have done this only in order to have a point from which to begin. The results of this study are very tentative, and where revisions are called for, I will gladly make them.

Bauer 1988, now a companion piece to the present paper, first applied this combined procedure to the lexemes tongue and lick. Let me assure anyone who may think the contrary that for now I see no special ties between this pair of lexemes and vulva. To pinch an old put from Matisoff (Benedict 1979:31), I'm no cunning linguist; the juxtaposition has been purely coincidental.

Second, I believe every word has a history of its own. This is not meant to imply that a particular word in the course of its historical development has defied regular sound laws. But I do not think it is surprising if a particular word has been affected by some sound changes but not others. Furthermore, we cannot rule out the possibility that a particular historical development is unique (cf. Matisoff 1972b:276). What I am saying is that we have no way of knowing all the facts about the historical development of a word so that the relationship between the modern reflex and its etymon may not be readily apparent. I have in mind the southern Sinitic forms of Min-Hongkong tsi¹ mai¹, Min-Xiamen tsi¹ bai¹, Kejia Sixian tsi¹ piet⁷, and Yue-Hongkong hai¹; phonetically divergent as these forms are on the surface, I believe that all of them ultimately descend from the same historical source.

And third, I believe there is no area of the lexicon that is immune to lexical replacement — bodypart terms are no exception.³ The notion of basic vocabulary which of course includes terms for the bodyparts is a convenient heuristic device of the linguist. It helpfully distinguishes between relatively stable areas of vocabulary, such as bodypart terms and pronouns, and other areas where lexical expansion is commonly observed such as the names of culturally-transmitted items which are simply added to the vocabulary and do not necessarily replace already existing terms. I think we need to distinguish between lexical replacement and lexical expansion two processes which are both termed "borrowing."

A variety of situations bring speakers of different languages into contact, and as a result speakers of Language A may learn an equivalent bodypart term from Language B. Speakers of Language A may know two words for the same thing and may use both terms in variation; eventually however, the form from B may displace the term in A if the speakers feel no need for having two ways to refer to the same thing. Further, it should go without saying that lexical replacement can take place both among genetically related and genetically unrelated languages. That two languages

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Japanese speakers have borrowed English pents as pentsu which is used by men as often as the native word chinko (Soit 1982:78). Several languages of the Middle East have borrowed Arabic kus 'vulva': Israeli Hebrew kus is the vulgar slang word (Petruck 1986:104); cf. Afghar Persian kos, Baluchi kus (Nawata 1981:34), Mazandarani kes, Persian kos (Nawata 1984:29) Megalocomparativists, note Benedict's S-T root "bat and Hebrew pot 'vulva' (Petruck 1986:69).

⁴ E.g. in bilingual families in which children grow up hearing the mother and father speak different languages; or in societies which deliberately use a foreign language in some domain e.g. English as the vogue language of Japanese advertising. There are also language contac situations in which one ethnollinguistic group dominates another but language influence car move in either direction: English as the pre-eminent language of international business in the British colony of Hong Kong has strongly influenced both Cantonese phonology and vocabulary; on the other hand, the close but hostile contact between Jews and Arabs in Israe finds Hebrew absorbing vocabulary from Arabic.

are genetically unrelated does not mean there can be no relationship between their vocabularies — even if the forms are not genetic cognates, they may still be linked as loanwords. In some of the non-Tibeto-Burman languages of East and Southeast Asia terms for 'vulva' appear to be contact loans from Sino-Tibetan languages.

2.1 Previously-reconstructed Sino-Tibetan and Tibeto-Burman roots

Benedict (n.d.a:3) has reconstructed Sino-Tibetan *(s-)ba(-t) vulve derived from *(s-)bet 'hide/hidden' which is based on Written Tibetan sbéd-pa, sba 'hide, conceal' (Jäschke 1985:404) and sbá-ba 'privy parts, pudenda' (403). He has connected this root to Proto-Chinese via *pwo/puo 'hide oneself: escape' (GS #102d', Karlgren 1966:153) which he believes is derived from *s-bah. Benedict's source of modern Chinese dialect forms (he cites Hakka piet⁸ and Min-Kienyang pie⁷) is Proto-Chinese *(s-)biet vulva from an earlier Sino-Tibetan *(s-)bat (n.d.a:4) [Cf. Benedict 1988:39 which listed a more phonetically detailed root *b'iet for Chinese and associated it with **\footnote{\text{K}} : however, this Chinese character seems to have a relatively recent history: according to Stimson 1966:292 the graph first appeared in a dictionary of the late 17th century].

If we hypothesize a connection between Benedict's ST root *s-bat and Min-Xiamen tsi1 ba11, this comparison raises several questions: (1) Can we link ST 's- with the initial syllable tsi1? (2) Can we derive Modern Min b- from ST *b-? (3) Can we derive modern Min -ai from ST *-at? My answers to these questions are as follows: (1) At the proto-ST level I prefer a full prefixal syllable "dzu from which can be derived proto-Chinese "ts1 and Min tsi1. (2) in the history of the Min dialects modern b- initial has derived from Middle Chinese (and presumably earlier) *m-. that is, *m- underwent a process of denasalization. To accommodate Min ! have proposed that proto-Chinese *mat > proto-Min *mai > modern Min bai. (3) At the moment I cannot point to any other lexical items in Min to demonstrate that one of the sources of proto-Min -ai has been proto-Chinese *-at; and the lack of such evidence may mean that this correspondence is unique. However, as we shall see below in section 3.1. comparable forms in Kejia dialects clearly indicate that the etymon's rhyme had a -t ending.

On the Tibeto-Burman side, previous reconstructions include: Burmese-Lolo *dźuk (Benedict 1972:53), Lolo-Burmese *b(j)et (Matisoff 1972a:83) and *b(j)it (Thurgood 1974:105). Tibeto-Burman *həi,

⁵ Originally reconstructed as b(y) et and b(y) it, these roots are rewritten with j as the palatal glide.

*kəi (Mausoff's roots cited in Benedict 1979:30), and Loloish *dza² batL (Bradley 1985:44). It will be noticed that among all of these Sino-Tibetan and Lolo-Burmese roots there is only one, Bradley's Loloish, that is bimorphosyllabic. It is my view that we need to reconstruct a two-syllable root for this lexeme.

2.2 Sino-Tibetan *dzu(k) mat

I have reconstructed Sino-Tibetan $^*dzu(k)$ mat primarily on the basis of Northern Hpun (Megyaw) $z\mathring{u}$? $m\grave{a}-ts\mathring{v}$ má? and Written Burmese $t \int ok$ pat. The discussion below on the Min and Kejia forms in the Chinese dialects will show how the Hpun forms with their bilabial nasal initial in the second morphosyllable are the key to the Sino-Tibetan reconstruction. Written Burmese $t \int ok$ pat reflects the devoicing of the affricate initial of the first syllable; the Burmese form by itself gives no reason for reconstructing $^*m-$ but it is needed in order to accommodate m- of Northern Hpun, and m- and b- of modern Min, the source of which is $^*m-$. The Hpun forms were recorded by Luce (Henderson 1986) in a fine phonetic transcription and for several Hpun speakers, so it is not entirely clear what the glottal stops may represent; nor is it clear whether the initial of the first morphosyllable was a voiced fricative or a voiceless affricate. The Written Burmese forms, however, indicate that both morphosyllables of the etymon had stop endings and that the first morphosyllable had a voiced affricate initial.

2.3 Sino-Tibetan *dzu(k) b(j)et

ST *dzu(k) b(j)et, another bi-morphosyllabic variant root, is based on Modern Burmese sau? pe?, Burmese-Yaw sau? phe?, Akha dò bèq, Mpi to³¹ phe³¹, Lisu tu¹ bi⁶, Central Yi tu⁵⁵ bi²¹, Bisu-Huai Chomphu tò pè, Bisu-Tako tà pè. Alongside these forms we can compare forms from Austro-Tai and Japanese: Saisiyat-Tungho to pi?, Japanese-Tokyo tu: bi, and Japanese-Kanagawa tu bi (phonetically, the first syllable of the Japanese forms is [tsw], [t-] before [w] becomes an affricate). The striking phonosemantic similarity of these forms with those in Tibeto-Burman indicates some kind of relationship. I suggest these items may be instances of contact loans through lexical replacement across genetic lines.

2.4 Split etyma: Sino-Tibetan
$$\begin{cases} * & dzu(k) & mat \\ * & dzu(k) & bjet \end{cases} > \begin{cases} * & dzuk \\ * & dzu \\ * & bat \\ * & bjet \end{cases}$$

Forms in some modern Tibeto-Burman and Sinitic languages indicate to me that the original bi-morphosyllabic roots split into monomorphosyllabic roots, i.e. both the first and second morphosyllabies of the roots developed into independent, monosyllabic morphemes. To identify an etymon that undergoes this kind of split we may use the term split etymon.⁶

The Tibeto-Burman foundation of these reconstructed monosyllable roots is based on the following forms:

- 1. *dZuk > rGyarong-bTsan Lha ?o Ndzyuk, rGyarong-lCog rtse?u sytuk. Written Burmese tʃok, Maru tʃok, Atsi tʃu?, Chang Naga ʃūk. Northern Hpun (Megyaw) so?.
- 2. *dzu > Chin (Zo)-Haka (Lai) t fhu¹, Written Tibetan stu. Tibetan-Glo tu. Thakali tu. Manang-Prakaa tu. Chin (Zo)-Ahraing K'umi thu¹. Chin (Zo)-Wo Ma Tu fu¹; Karen-Palaychi zù [a contact loan; cf. other Karen languages: Bassein Pho lén?, Moulmein Pho lén, Taungthu lîn, Moulmein Sgaw lì. Bassein Sgaw lî]. Benedict (letter dated May 5, 1988) suggests the source of the Tibetan forms is Tibeto-Burman *(s-)tu 'join'.
 - 3. *bat > Sak-Bawtala 2apa?2, Ganan pa?4, Kadu (Kantu) pa?3.
- 4. *b(j)et > Sak-Dodem apet, Kanauri phe:ts, Akha à bèq, Lahu $t \int ha$ pè?, Sani pæ⁵⁵, Haoni tsò pì, Southern Yl pi⁵⁵, Moso-Weihsi pi³¹.

We also find listed under this root one form from Austro-Tai: White Miao (=Petchabun) pi? (low tone). Benedict (1975:417) derives pi? from Proto-Miao-Yao *bi?; however, the similarity of pi? (and even *bi? itself) to forms in Tibeto-Burman languages as well as to the Wu and Min forms of Sinitic (to be discussed below) suggests that the Miao form may very likely be a loan from some Sino-Tibetan language.

⁶ Split etymon is at the opposite end of split cognate, a term that has been defined by Matisoff as "cognates that have reflexes of at most one given proto-phoneme in common, since they descend from different syllables of a polysyllabic etymon" (Matisoff 1990:117). In view of the material presented here, I would like to propose another way of analyzing a polysyllabic root and modify his definition by replacing "of at most one" with "of one or more". This is to say that at a later stage a bi-syllabic proto-root can split up into two independent mono-syllabic roots, each of which is derived from one of the original syllables: i.e., Time 1, $AB \rightarrow Time 2$, A and B; the modern lexical reflexes of A (or B) can share one or more segmental reflexes of the proto-phonemes making up the phonetic shape of A (or B).

In reconstructing the Chinese root, we cannot look to the Chinese characters for help because there are no graphs which have been associated with this morpheme in older stages of the Chinese dialects (cf. Stimson 1966:292 concerning ascribed to the late 17th century). Forms from the modern Min and Kejia dialects provide the basis for the reconstructed root.

ST *dzu mat, a variant root in which the velar stop-ending of the first morphosyllable has been lost, is proposed as the source of Proto-Chinese *tsl mat. The major sound change occurred in the first morphosyllable: devoicing of the initial and centralization of the vowel. My bi-syllable reconstruction is more complex than Middle Chinese *pei proposed by Stimson (1966:293) who claimed on the basis of forms from Mandarin, Taiwan Kejia, and Taiwan Min that the Middle Chinese etymon for vulva did not have a -p, -t, -k ending characteristic of the Rusheng tone category. Further, his monomorphosyllable root took no account of the bimorphosyllable shape of the Kejia and Min forms.

However, the following forms from several Kejia dialects found in Guangdong clearly indicate that the etymon was bimorphosyllabic and that the second syllable did indeed belong to the Rusheng tone category: Kejia-Danshuitsi¹ pet⁷: Kejia-Sixian tsl¹ piet⁷: Kejia-Wuhua tsl¹ piet⁷: Kejia (Maciver 1982/1926) tsl¹ piet⁷.

Most Min dialects show forms which are very similar to Min-Taibel $t \in 1^1$ mai¹. As mentioned above, modern Min b - has developed from *m-, and Min-Hong $Kong t \in 1^1$ mai¹ still reflects the older initial. There is also the problem of how to account for the loss of the -t ending in Min, since some of the Min dialects such as Xiamen preserve fairly faithfully the series of final stops -p, -t, -k. At the moment, although I cannot point to any parallel examples of an actual correspondence, I am proposing that Min -ai is one of the modern reflexes of proto-Chinese -at. Further, in ancestral Min when the -t ending was reduced to the i-offglide, the morphosyllable changed its tone category, i.e. *mai became reassigned to Yin Ping (perhaps it was influenced by the tone of the preceding syllable $t \in 1^1$).

I believe the bisyllabic Kejia and Min forms are ultimately related to the same etymon, but in the course of their development these reflexes have preserved different phonetic features of the etymon: for the second morphosyllable, the Kejia forms have kept the original Rusheng ending: while the Min forms, on the other hand, have lost the -t ending but have preserved the voiced initial and low vowel. At an early stage of the Old Chinese period the source language of modern Kejia. Yue, and Min or southern Sinitic (comparable to Norman's (1988:210) Old Southern Chinese) divided into at least two groups of speakers from whose languages

the Min and Kejia dialects have developed. For each proto-dialect family the final of the second morphosyllable developed in different ways, which is reflected in the reconstruction of two variant proto-roots; Proto-Min ts mai and Proto-Kejia ts1 bjet.

3.2 Split etymon 1: *ts1 mat >
$$\begin{cases} *ts1 \\ *bjet \end{cases}$$

The concept of split etymon can help us explain the existence of tw phonetically distinctive mono-morphosyllabic forms in some of the modern Chinese dialects. I suggest that these forms are monosyllabic reflexes of the historical bimorphosyllabic etymon "ts] mat which split into tw independent monosyllabic roots "ts] and "bjet:

1. *tsj > Min-Chaoyang tsi¹, Min-Yongan tsj¹, Pinghua-Lingutsei¹, Rejia tsi¹ (Maciver 1982/1926), Rejia-Hailu tsi¹,

2. *bjet > Gan-Nanchang piet?, Gan-Gaoan piet?, Kejla-Xinzh pit? pit?, Xiang-Changsha pie?, Min-Chaozhou phi?8, Wu-Pujian phie?42, Wu-Wenling phie?44, Wu-Songyang phi?44, Min-Shaowu pie pie, Wu-Qingtian bi 22 , Wu-Yongjia bi 33 , Wu-Wenzhou peii, Mandarin Beijing pii, Mandarin-Guilin pæi, Kejia-Huizhou pei, Mandarin-Xian phii

The *bjet rime developed from *mat through the raising an fronting of *-a-, which led to the acquisition of an j-onglide in some Kejia Gan, and Wu dialects.

3.3 Split etymon 2: *ts1 mai \rightarrow *mai \rightarrow *bai \rightarrow *phai \rightarrow Yu hai¹

From the point of view of their retention of the Rusheng endings, the Yue dialects are considered to be among the most conservative of the southern dialects. So, in relation to Kejia and Min, the Yue dialect forms such as Yue-Hong Kong hai¹ seem somewhat deviant with the h- initial instead of a bilabial stop, the absence of a Rusheng ending, and the monomorphosyllable. Stimson (1966:292) implied that the Yue dialects did not share the same etymon as his other modern Min and Kejia dialect forms. Nevertheless, in comparison to Mandarin and Min, the tone and rhyme of Yue-Hong Kong hai¹ are right; further, the existence of ph- for some We and Min (as well as Mandarin-Xian) dialects (forms listed under *bjet in the Appendix) indicates that ph- as well as p- have developed from *b-Such a development raises the possibility for the further development of ph-namely that the stop initial may have lost its labial plosive quality leaving only the aspiration behind as the initial.

There is evidence in Sinitic to support a scenario in which a glottal fricative initial is derived from an aspirated stop initial: e.g., modern Yue-Taishan h- corresponds to Yue-Guangzhou th- and kh- (as well as several other) initials (Huang 1990:232-244) — these stop initials more faithfully reflect their historical sources. For Cantonese I propose that the proto-root *tsl mai split into two roots, *tsl and *mai; the initial of *mai underwent several developments: *mai > *bai > *phai (and *pai) > *hail. Hence, I include Yue in this etymology. Also, cf. Kejia-Zhongshan hai⁵ pai³ which seems to have joined the two syllables together.

On the Tibeto-Burman side, cf. Matisoff's roots *hei and *kei (Benedict 1979:30) based on Tankhur Naga hei 'sexual organ of women'.

Limbu hi (ra) 'vulva'. Mru kai 'vulva'.

Stimson (1966:293) rejected any link between Yue-Guangzhou hai¹ and Siamese hi:¹; however, Benedict (n.d.b:3) has claimed a very early donor connection beween Tai *hi:¾ and Yue hai¾ in which Cantonese borrowed the lexeme from Tai. Still within Kadai, cf. Zhuang ma:16 with the bilabial nasal stop initial.

3.4 Lexical replacement in Kejia

A number of Kejia dialects have been in close contact with Min dialects and have borrowed from Min their forms for vulva: Kejia-Meixian tsl^1 pai²; Kejia-Sixian tsl^1 pai² (apparently in variation with tsl^1 piet⁷); Kejia-Yongding tsl^1 pai²; Kejia-Pinghe tsl^1 pai²; Kejia-Taidong tsl^1 pai² - tsl^1 pai². In the Min dialects the two morphosyllables belong to the same tone category but the first morphosyllable undergoes tone sandhi. For the Kejia forms the different tone categories may correspond to differences in phonetic contours of the sandhied and original tones of the Min morphosyllables at the time they were borrowed into Kejia.

3.5 Semantic flipflop

In the northern and central Mandarin dialects and in at least one southern Wu dialect the phonetic shape of the common term for penis is very similar to the phonetic shape of the term for vulva in the southern dialects of Min and Kella:

Wu-Longyu: tçi¹² pa⁷⁵⁴
Mandarin-Beijing: tçi¹ pa⁹
Mandarin-Changzhi: tçi¹ pa¹
Mandarin-Xiaogan: t∫i¹ pa⁹
Mandarin-Wuhan: t∫i¹ pa⁹

Chinese dictionaries and novels typically transcribe this word as the first character means 'chicken' and the second is a nominal suffix. (Or might even see some accidental semantic similarity between the Chines form and English "cock" = penis). The choice of this graph may have been recognition of the similar shapes of the (uncircumcised) penis and chicken's head and neck; this would then be a case of folk etymologizing which found a fortuitous match between sound and meaning. I suggest a such forms ultimately descend from "ts] mat 'vulva'.

It is interesting to note that the same bipolar transposition in meaning of historically related lexical items so that in one language the word mean vulva but in another pents has been described by linguists working with other languages of the Southeast Asian area: Matisoff (1978:271), citing examples (from Benedict 1975) in Formosan languages, has termed the development "interlingual antonymic association." Benedict (1979:21) had described the phenomenon in Karen as "genital flipflop."

Chinese semantic flipflop may have been just one consequence of the differentiation of the dialects brought about by their increasing geographics separation on the one hand and contact-borrowing among the dialects of the other. The forms for vulva in the northern, central, and eastern dialect are typically the monosyllabic form pi[<*b(j)et] or something similar rather than the bisyllabic words found in Kejia and Min.

Right now in Taiwan we can observe the effects of near homophony terms meaning pents and vulva created by contact between mutually unintelligible Mandarin and Taiwanese. When mainlanders who were predominantly Mandarin-speaking evacuated to Taiwan in large numbers the late 1940's, they brought with them Mandarin toil pa9 'penis However, because of its near homophony with Taiwanese toil pail 'vulva and the confusion and consternation this has caused, younger people what are typically bilingual in Taiwan Mandarin and Taiwanese have shied awas from using Mandarin toil pa9 and appear to be replacing it with \$\frac{1}{2} \times 100^4 \text{ so } 6 \text{ (literally, 'old two').}

3.6 Semantic shift

When the bi-morphosyllabic root *dzuk mat split into independer morphemes, in some languages or even within the same language. *ma retained its original meaning for the bodypart, while *dzuk shifted it meaning to the related activity copulate. Two Tibeto-Burman languages ma reflect this kind of development: Atsi-Sadon tsho? 'copulate' (but also of tsu? 'vulva') and Kanauri tsuk (fimig) 'copulate' (fimig = verb suffix A comparable semantic shift in ST *dzuk may have occurred amon Chinese dialects: cf. Gan-Gaoan tshok?, Gan-Nanchang tshok?, Washanghai tsho??, Mandarin-Beijing tshau⁵, Wu-Wenzhou tsuo

'copulate'. Finally, *dzuk may have been borrowed into at least one Austronesian language: cf. Malay ancuk 'copulate, unite with' (Abas 1983:14).

4. Austro-Tai *tupi < *tsj mat

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In the course of working with materials on Austro-Tai languages, I have been struck by the phonetic similarity of some of their vulva forms with those in Tibeto-Burman languages. Have there been historical contact relationships among languages of these two groups resulting in lexical borrowing? Of course. This means that many modern Austro-Tai forms ultimately derive from roots reconstructed for Sino-Tibetan. Intimate and prolonged contact among the various languages of Southeast Asia has resulted in the mutual exchange of vocabulary items (cf. Matisoff 1983:62-64), and I believe this includes the lexeme vulva. So-called core vocabulary is not impervious to lexical replacement or addition. The distribution of related forms extends throughout East and Southeast Asia and includes Taiwan, Japan and the Ryukyuan Islands, and Islands in the South Pacific. As the source of Proto-Austro-Tal *tupi I propose *ts1 mat, the same protovariant root proposed for southern Chinese which I believe was the donor source of the Autro-Tai root. Before I explain my reasoning behind this claim, let us first reconsider reconstructions for Proto-Tai and Proto-Austro-Tai.

At the Proto-Tai level Li F. K. (1977:250) has reconstructed glottal fricative *h- initial based on the modern Southwest and Central Tai dialects which have similar forms. hi or hi: and tone 1. The close similarity between Tai and Yue leads me to agree with Benedict (n.d.b:3) that some kind of contact donor relationship links their forms: we note the correspondence between the historical tone categories and initial consonants of Siamese hi:1 and Yue-Guangzhou hai1. As mentioned above in Section 3.3. Benedict (n.d.b:3) has claimed that the Yue form is an early loan from Tai, but I reserve judgment on this matter.

Benedict (1975:417) has reconstructed Proto-Tai *hi (but more recently *hii h in n.d.b:3) which he derived from *hNi (this root in turn is derived from an earlier *hNGi). He has also reconstructed Proto-Miao-Yao *bi? which he claimed is derived from an earlier possible disyllabic root *biq[i](< *buq[i]). However, I believe that White Miao pì? (with low tone and cited in Benedict 1975:417) is fairly similar to Chinese dialect forms and is more likely a loan from some Chinese dialect; cf. Min-Chaozhou phi?8 (Choy 1976:312), Wu-Songyang phi?44 (Ballard 1988).

Recently, Benedict has attempted to Join Japanese to his Austro-Tai group. With respect to the lexeme in question, he (1990:258) has

reconstructed Proto-Austro-Kadai *tupi based on Saistyat *topi? (bu cited incorrectly in text as top1 without final -?); *tup1 is the source of Proto-Austronesian *tupi and *pipi, Proto-Kadai *[SYL]piC (< [tu]pi) Proto-Polynesian *fifi, Proto-Atayalic *pipi? (from Atayal pipi (Egerod 1980:470), Old Japanese *Fivi. Benedict also cited forms from two Ryukyuan dialects, Yonagunt hi: and Shodon hvi(i), whos development he believes has followed in tandem with Japanese. Will respect to Benedict's root *tupi, we can compare additional Japanes dialect forms by prefecture: Japanese-Tokyo and Kanagawa tu:bi Japanese-Ibaraki, Toyama, Aomori, Tokushima, Tokyo, Shizuoka, Nagano Yamanashi bebe; Japanese-Kagoshima and Okinawa h1:; Japanese-Okinaw pi: (Narusawa 1986:128); Japanese-Okinagarabejima bi:bi:, bi:bi, bib; (Nakamoto 1981:77). Similar forms occur in neighboring languages cf. Batanic languages of the Philippines, Ivasay bitbi and Isamorona bib; M'suchida et al 1987:); Mokilese b.1 (Harrison & Albert 1977:67).

With Benedict's root *tup1 we can compare very similar bi-syllabit forms from several Tibeto-Burman languages: Lisu tu¹b16: Central Yi tu⁵p1³¹; Akha dò bèq: Mpi to³¹ phe³¹; Bisu-Huai Chomphu tò pè. Mono syllabic forms from Tibeto-Burman and Sinitic languages also show similarities with the Austro-Tai forms cited above: Sani pe⁵⁵. Southern Yp¹⁵⁵, Moso-Weihsi p¹⁵¹; Hunan-Loudi b¹². Mandarin-Beijing p¹¹, Kejia Huizhou pe³, Mandarin-Guilin pæ¹. One is certainly struck by the close phonetic similarity of the Lisu and Central Yi forms to the Austro-Tai root. do not believe that this similarity is fortuitous, and claim that it has resulted from the diffusion of these forms into neighboring languages.

5. Conclusion

The fulcrum on which Sino-Tibetan *dzuk mat pivots is my two-par speculation: (1) that Northern Hpun (Megyaw) zv? mà ~ tsv má? an Burmese-Written t fok pat derive from the same etymon, and (2) that these Tibeto-Burman forms are historically related to two important form from Sinitic, Kejia-Sixian * $ts1^1$ piet? and Min-Hongkong *tci1 mail But it is primarily from the Tibeto-Burman forms that *dzuk mat takes it phonetic shape.

Sino-Tibetanists may envy the highly polished shine on sound "laws established for Proto-Indo-European, but such a feeling is tempered wit the knowledge that the polishing process spans over 200 years of cumulative florts. In contrast, the sound correspondences between Proto-Since Tibetan and modern Sinitic and Tibeto-Burman languages worked out over few decades still stand at an early stage of development (cf. Norma 1988:12-16; Chang 1973:337). Bridging the gap between the Sinitic and Tibeto-Burman branches constitutes the main challenge of Sino-Tibeta studies. Thus the Sino-Tibetan world eagerly awaits the appearance of the

first fascicle on bodypart terms to be published soon by Jim Matisoff's Sino-Tibetan Etymological Dictionary and Thesaurus project at the University of California-Berkeley. Till then, I hope my own speculative and tentative attempt to develop the Sino-Tibetan etymology of one word can take us a small step in the right direction. The larger task of tracing the historical developments of the root's initials and finals in individual Tibeto-Burman and Sinitic languages still remains.

REFERENCES

- Abas, Madya Lutil. 1983. Kamus Bahasa, Malaysia-Tionghoa-Inggeris. Kuala Lumpur: The Shanghai Book Co.
- Bailey, T. Grahame. 1910. "Kanauri vocabulary in two parts: English-Kanauri and Kanauri-English." The Journal of the Royal Asiatic Society of Great Britain and Ireland, 659-705.
- Ballard, W. L. 1988. "Fieldnotes on Wu Dialects." Unpublished ms.
- Bandyopadhyay, Swapon Kumar. 1989. "A Tangsa wordlist." Linguistics of the Tibeto-Burman Area 12.2:79-91.
- Bao Houxing. 1989. "Hunan Shaoyang fangyan yinxi." Fangyan 3:196-207.
- Bauer, Robert S. 1990. Fieldnotes on Kejia-Xinzhu, Taipei, September 1990.
- Bauer, Robert S. 1988. "Sino-Tibetan *tongue and *lick." Linguistics of the Tibeto-Burman area 11.2:144-165.
- Bauer, Robert S. 1987. "In Search of Austro-Tal strata in southern Chinese dialects." Computational analysis of Asian & African languages 28:53-65.
- Bauer, Robert S. 1986. Fieldnotes on Min-Hongkong and Kejia-Danshui, Hong Kong, December 1985 and Kejia-Taidong, Taipei, January 1986.
- Bauer, Robert S. 1985. "Cognation of bodypart terms across Chinese dialects." Paper presented at 18th International Conference on Sino-Tibetan Languages and Linguistics, Bangkok.
- Benedict, Paul K. 1990. Japanese/Austro-Tal. Ann Arbor: Karoma.
- Benedict, Paul K. 1988. Untitled ms. circulated as handout. 21st international Conference on Sino-Tibetan Languages and Linguistics. Lund, Sweden.
- Benedict. Paul K. 1979. "Four forays into Karen linguistic history." Linguistics of the Tibeto-Burman area 5.1:1-35. Edited and expurgated by James A. Matisoff.
- Benedict, Paul K. 1975. Austro-That: language and culture with a glossary of roots. HRAF Press.
- Benedict, Paul K. 1973. "Tibeto-Burman tones with a note on teleo-reconstruction." Acta Orientalia 35:127-138.
- Benedict, Paul K. 1972. Sino-Tibetan: a Conspectus. Contributing editor. James A. Matisoff. Cambridge: Cambridge Univ. Press.
- Benedict, Paul K. no date-a. (postmarked August 16, 1989). "PBY nominalizing *-t suffix." Unpublished ms.
- Benedict, Paul K. no date-b. "No. 6 Kadai and DTKN." Unpublished ms.

- Bhat, D.N. Shankara. 1969. Tankhur Naga Vocabulary. Poona: Decean College Postgraduate and Research Institute.
- Bradley, David. 1988. "Bisu dialects." Paper presented to Burmese-Yipho Workshop, Lund 5/10/88.
- Bradley, David. 1986. Letter dated January 3, 1986.
- Bradley, David. 1985. "The Haoni dialect of Hani." Paper presented at 18th International Conference on Sino-Tibetan Languages and Linguistics, Bangkok.
- Bradley, David. 1975. "Nahsi and Proto-Burmese-Lolo." Linguistics of the Tibeto-Burman Area 2.1:93-150.
- Brun, Viggo. 1973. "An English-Akha vocabulary." Acta Orientalia 35:138-159.
- Buck, Carl Darling. 1949. A Dictionary of Selected Synonyms in the Principal Indo-European Languages. Chicago: Univ. of Chicago Press. Burling, Robbins. 1969. "Proto-Karen: A reanalysis." In A. L. Becker (ed.)
 - Occasional Papers of the Wolfenden Society on Tibeto-Burmar Linguistics. Ann Arbor: Univ. of Michigan.
- Chang Kun. 1973. "Review of Benedict, Sino-Tibetan: a Conspectus."

 Journal of Asian Studies 32.2:335-337.
- Choy Chunming. 1976. A Dictionary of the Chao-chou Dialect. Talpei: Dongya Zhibensuo.
- Dyen, Isidore. 1970. "Background 'noise' or evidence in comparative linguistics: the case of the Austronesian-Indo-European hypothesis." In George Cardona, Henry M. Hoenigswald, and Alfred Senn. eds., Indo-European and Indo-Europeans. Philadelphia: University of Pennsylvania Press.
- Egerod, Søren. 1980. Atayal-English Dictionary. London: Curzon Press.
- Feng Alzhen. 1988. "Fujiansheng Fuqing fangyande yuyin xitong." Fangyan 4:287-300.
- Gao Fusheng. 1988. "Anyi Fangyan tongyin zihui." Fangyan 2:123-135.
- Goldstein, Mclvyn C. 1984. English-Tibetan Dictionary of Modern Tibetan.

 Berkeley: Univ. of California Press.
- Greenberg, Joseph. 1987. Language in the Americas. Stanford: Stanford Univ. Press.
- Univ. Press.

 Harris, Jimmy G. 1976. "Notes on Khamti Shan." In Thomas W. Gething, et al. (eds) Tai Linguistics in Honor of Fang-Kuei Li. Bangkok: Chulalongkorn Univ. Press.
- Harrison, Sheldon P. and Salich Albert. 1977. Mokilese-English Dictionary.
 Honolulu: Univ. Press of Hawaii.
- Hashimoto Mantaro. 1980. The Be Language: a classified lexicon of its Limkow dialect. Tokyo: ILCAA.
- Hashimoto Mantaro. 1973. The Hakka Dialect: a linguistic study of its phonology, syntax, and lexicon. Cambridge Univ. Press.

- Hashimoto Mantaro. 1972. Kyakukago Kiso Goishuu. Tokyo: ILCAA.
- Henderson, Eugénie J. A. 1986. "Some hitherto unpublished material or Northern (Megyaw) Hpun." In John McCoy & Timothy Light (eds Contributions to Sino-Tibetan studies. Leiden: E. J. Brill.
- Hoshi Michiyo & Tondup Tsering. 1978. "Zangskar vocabulary, a Tibetar dialect spoken in Kashmir." Monumenta Serindica, No. 5.
- Hoshi Michiyo. 1984. "A Prakaa Vocabulary a Dialect of the Manang Language." Monumenta Serindica, No. 12:133-202.
- Hou Jingyi. 1985. Changzhi Fangyanzhi. Beljing: Yuwen Chubanshe.
- Hu Shiyun. 1989. "Lianshui fangyan tongyin zihui." Fangyan 2:131-143.
- Huang Jianyun. 1990. Taishan Fangyan. Guangzhou: Zhongshan Daxue Chubanshe.
- Huang Xuezhen. 1983. "Yongding (Xlayang) fangyan cihui (2)." Fangyan 3:220-240.
- Hutton, J. H. 1987. Chang Language: grammar and vocabulary of the language of the Chang Nagas. Delhi: Gian Publishing House.
- Jäschke, H. A. 1985. A Tibetan-English Dictionary. London: Antony Rowelltd. (Reprint of original 1881 edition).
- Kamus Bahasa Indonesia-Tiong Hoa Dengan Ejaan Bant. 1976. Dongnanya Yuwen Yanjiusuo (ed.) Hong Kong: Nan Kwok Pub. Co.
- Karlgren, Bernhard. 1966. Grammata Serica. Taipei: Ch'eng Wer Publishing Company. (Reprint of 1940 edition).
- Lan Ching-han. 1980. "The Yilan dialect of Chinese, its classified lexicor with grammatical notes." Computational Analyses of Asian & African Languages, No. 14.
- Li Fangkuei. 1977. A Handbook of Comparative Tai. Honolulu: The Univ. o Hawaii Press.
- Li. Paul Ren-kuei. 1978. "A comparative vocabulary of Salsiyat dialects." Zhongyang Yanjiuyuan Lishi Yuyan Yanjiusuo Jikan 49:134-197.
- Li Shen. 1985. Xuzhou Fangyanzhi. Beijing: Yuwen Chubanshe.
- Li Xingjian and Liu Sixun. 1986. "Tianjin Fangyan Cihui (1)." Fangyan 1:71 78.
- Lin Liantong. 1987. "Fujian Yongchun fangyan cihui (1)." Fangyan 4:310
- Liu Ling. 1988. Dunhuang Fangyanzhi. Lanzhou: Lanzhou Daxue Chubanshe. Lu Jinyuan. 1986. "Lüsi fangyan Jilüe." Fangyan 1:52-70.
- Luce, G. H. 1985. Phases of Pre-Pagán Burma. Volume II. Oxford: Oxford Univ. Press.
- Luo Zhaojin. 1989. Ruijin Fangyan. Taipei: Taiwan Student Book Co.
- Maciver, D. 1982. A Chinese-English Dictionary, Hakka Dialect as Spoker in Kwang-tung Province. Talpel: Southern Materials Center. Inc (Reprint of 1926 edition).

- Matisoff, James A. 1990, "Discussion note: On megalocomparison," Language 66.1:106-120.
- Matisoff, James A. 1985. "God and the Sino-Tibetan Copula, with some good news concerning selected Tibeto-Burman Rhymes." Journal of
- Asian and African Studies 29:1-81. Matisoff, James A. 1983. "Linguistic diversity and language contact." In John McKinnon & Wanat Bhruksasri (eds.) Highlanders of Thailand.
- Kuala Lumpur: Oxford Univ. Press. Matisoff, James A. 1978. Variational Semantics in Tibeto-Burman.
- Matisoff, James A. 1972a. The Loloish Tonal Split Revisited. Research Monograph No. 7. Berkeley: Center for South and Southeast Asian Studies, Univ. of California.

Philadelphia: Institute for the Study of Human Issues.

- 1972b. Tangkhul Naga and comparative Tibeto-Matisoff, James A. Burman." Tonan Ajia Kenkuu 10.2:271-283.
- Matisoff, James A. 1969. "Lahu and proto-Lolo-Burmese." In A. L. Becker (ed.) Occasional papers of the Wolfenden Society on Tibeto-Burman linguistics. Ann Arbor: Univ. of Michigan. Maung Wun. 1975. "Development of the Burmese language in the medieval
 - period." Journal of Osaka University of Foreign Studies 36:63-119. Nagano Yasuhiko. 1984. "A Manang glossary." Monumenta Serindica
- 12:203-234. Nagano Yasuhiko. 1982a. "A historical study of gLo Tibetan." Bulletin of the National Museum of Ethnology 7.3:472-513.
- Nagano Yasuhiko. 1982b. "A preliminary report of the three Tibetan dialects in the northern Gandaki Valley." Monumenta Serindica 10:81-157.
- Nagano Yasuhiko. 1979. "A historical study of rGyarong rhymes." Linguistics of the Tibeto-Burman Area 5.1:37-47.
- Nagano Yasuhiko. 1978. "A note to rGyarong Tsangla body part terms." Unpublished Univ. of California-Berkeley term paper.
- Nakajima Motoki. 1983. The Southern Chekiang dialect: a linguistic study of its phonology and lexicon. Tokyo: Institute for the Study of
- Languages and Cultures of Asia and Africa. Nakajima Motoki. 1979. A Comparative Lexicon of Fukien Dialects. Tokyo:
- Institute for the Study of Languages and Cultures of Asia and Africa. Nakamoto Masachie. 1981. Ryukyugo Jiten. Tokyo: Kinkeisha.
- Narusawa Tazuko (cd. dir.) 1986. Rataino Kotoba. Tokyo: Asphalt Books. Nawata Tetsuo. 1981. Baluchi. Tokyo: Institute for Study of Languages and
- Cultures of Asia and Africa. Norman, Jerry. 1988. Chinese. Cambridge: Cambridge Univ. Press.
- Norman, Jerry. 1987. "The classification of the Shaowu dialect." Fangyan 2:97-112.

- Petruck, Miriam R. L. 1986. Body Part Terminology in Hebrew: a study of lexical semantics. PhD dissertation, Univ. of Calif.
- Qu Altang and Tan Kerang. 1983. Alt Zangyu. Beijing: Zhongguo Shehui Kexue Chubanshe.
- Sakamoto Yasuyuki. 1976. "A note on Thai tones." In Mantaro Hashimoto (ed.) Genetic Relationship, Diffusion and Typological Similarities of East & Southeast Asian Languages: papers for the 1st Japan-US joint seminar on East and Southeast Asian linguistics. Tokyo: The Japan Society for the Promotion of Science.
- Shafer, Robert. 1952. "Athapaskan and Sino-Tibetan." International Journal of American Linguistics 18:12-19.
- Sherard, Michael. 1982. "A lexical survey of the Shanghai dialect." Computational Analyses of Asian & African languages, No. 20.
- Solt, John. 1982. "Japanese maledicta." Maledicta VI.1 + 2:75-81.
- Stimson, Hugh. 1966. "A tabu word in the Peking dialect." Language 42.2:285-294.
- Thurgood, Graham. 1974. "Lolo-Burmese rhymes." Linguistics of the Tibeto-Burman Area 1.1:98-107.
- Thurgood, Graham. 1985. "Benedict's work: past and present." In Graham Thurgood, et al (eds) Linguistics of the Sino-Tibetan Area: the state of the art. Canberra: Pacific Linguistics C-87.
- Tsuchida Shigeru, Yamada Yukihiro, and Moriguchi Tsunekazu. 1987. Lists of Selected Words of Batanic Languages. Tokyo: Univ. of Tokyo.
- Wang Ping. 1981. "Gulyang fangyande yuyin xitong." Fangyan 2:122-130.
- Wen Duanzheng. 1985. Xinzhou Fangyanzhi. Beijing: Yuwen Chubanshe.
- Wen Duanzheng. 1981. "Talyuan Fangyan Cihul." Fangyan 4:295-316.
- Wu Zili, Ang Zhiling, Huang Jianmin. 1984. Yi Han Jianming Cidian. Kunming: Minzu Chubanshe.
- Xiong Zhenghui. 1983. "Nanchang fangyan cihui (2)." Fangyan 1:59-80.
- Yabu Shiro. 1982. A Classified Dictionary of the Atsi or Zalwa Language (Sadon Dialect) with Atsi, Japanese and English Indexes. Tokyo: Institute for the Study of Languages and Cultures of Asia and Africa.
- Yabu Shiro. 1980. "Linguistic data of the Yaw dialect of the Burmese language." Journal of Asian and African Studies 19:164-182.
- Yan Qinghui and Liu Lihua. 1990. "A glossary of the Loudi dialect of Hunan province (2)." Fangyan 2:152-160.
- Yan Sen. 1981. "Gaoan (Laowu Zhoujia) fangyande yuyin xitong." Fangyan 2:104-121.
- Yan Sen. 1982a. "Gaoan (Laowu Zhoujia) fangyan cihui (1)." Fangyan 1:66-80.
- Yan Sen. 1982b. "Gaoan (Laowu Zhoujia) fangyan cihui (3)." Fangyan 3:234-240.
- Yang Huandian. 1982. "Guilin fangyan cihui." Fangyan 2:146-155.

- Zhan Bohui, Cheung Yatshing (eds). 1988. A Survey of Dialects in the Pearl River Delta. Volume II: Comparative Lexicon. Hong Kong: New Century Publishing House.
- Zhang Shengyu, Wang Ping, Shen Tong. 1988. "Hunan Taojiang (Gaoqiao) fangyan tongyin zihui." Fangyan 4:270-286.
- Zhang Chengcai. Zhu Shikui. 1987. Xining Fangyanzhi. Xining: Qinghai Renmin Chubanshe.
- Zhao Rixin. 1989. "Anhui Jixi fangyan yinxi tedian." Fangyan 2:125-130.
- Zhuang Han Cihui, Sawloih Cuengh Gun. 1984. Guangxi Zhuangzu Zizhiqu Shaoshu Minzu Yuyan Wenzi Gongzuo Welyuanhui Yanjiushi. Guangxi Minzu Chubanshe.

APPENDIX

Proto-Sino-Tibetan *Vulva

Reconstructed Roots and Their Reflexes

Sino-Tibetan: *dzuk mat, *dzu mat
ST Variants: *dzu mat, *dzuk, *dzu, *dzuk b(j)et ~ *dzu
b(j)et, *mat, *b(j)et

Proto-Chinese:

"ts1 mat < ST *dzu(k) mat
"ts1 mai, *ts1 bjet, *ts1, *bjet, *phjet,</pre> Sinitic Variants:

*mai, *dzuk

1.	*ts] mai < *dzu ma	L
Min-Hongkong	tçi¹ mai¹	(Bauer 1986)
Min-Yilan (Taiwan)	t∫i¹ bai¹	(Lan 1980:233)
Min-Yongchun (Fujian)	tsi¹ bai¹	(Lin 1987:315)
Min-Dongshandao (Fujian)	tsi¹ bai¹	(Nakajima 1979:138)
Min-Dongshandao (Fujian)	tsi¹ bai¹ a²	(Nakajima 1979:138)
Min-Taibei (Taiwan)	tçi ¹ bai ¹	(Bauer 1986)
Min-Fuqing (Fujian)	tsi¹ pe¹	(Feng 1988:296)
Min-Fuzhou (Fujian)	tsi ¹ ße ³	(Nakajima 1979:138)
Min-Zhongshan (Guangdo	ng) tsi ² bai ³	(Zhan, Cheung 1988:204)
Kejia-Meixian (Guangdong) tsl ¹ pai ²	(Hashimoto 1972:5)
Kejia-Sixian (Guangdong)	tsl1 pa12	(Hashimoto 1972:5)
Kejia-Yongding (Fujian)	ts i 1 pai ²	(Huang 1983:231)
Kejia-Pinghe (Fujian)	tçi ¹ pai ²	(Bauer 1985)
Kejia-Taidong (Taiwan)	tçi ¹ pai ²	(Bauer 1986)
Kejia-Taidong (Taiwan)	tsl1 pai2	(Bauer 1986)
Kejia (Guangdong)	t∫i¹ pai²	(Maciver 1982:606)
Mandarin-Changzhi (Sharu	d) tçi ¹ pa ¹ = penis	(Hou 1985:85)
Mandarin-Beijing	$tc1^1$ $pa^9 = penis$	(Bauer 1985)
•	•	

2. *tsj	bjet < *dzu m	at
Kejia-Danshui (Guangdong)	tsi1 pet7	(Bauer 1986)
Kejia-Dongguan (Guangdong)	tsi ¹ pet ⁷	(Zhan, Cheung 1988:204)
Kejia-Shenzhen (Guangdong)	tsi ¹ pet ⁷	(Zhan, Cheung 1988:204)
Kejia-Conghua (Guangdong)	tsi¹ pət ⁷	(Zhan, Cheung 1988:204)
Kejia-Sixian (Guangdong)	ts] ¹ piet ⁷	(Hashimoto 1972:5)
Kejla-Wuhua (Guangdong) t	sp1 piet7 [tsp1	biet ⁷] (Bauer 1985)
Kella (Guangdong)	tfi ¹ piet ⁷	(Maciver 1982:606)

3.	*ts1 < *dzu	
Min-Yongan (Fujian)	ts13	(Nakajima 1979:138)
Kejia-Hailu (Guangdong)	t∫î ^ī i	(Norman 1988:241)
Kejla (Guangdong)	tʃi ¹	(Maciver 1982:21)
Min-Chaozhou (Guangdong)	tsi ¹	(Choy 1976:431)
Min-Chaoyang (Fujian)	tsi1	(Nakajima 1979:138)
Wu-Wenzhou (Zhejiang)	tgi1 tgi1	(Nakajima 1983:621)
	y term for vulva,	
Mandarin-Taiyuan (Shanxi)	pæ3 tgi1	(Wen 1981:305)
Lingui (Guangxi)	tsei ¹	(Bauer 1985)
		· · · · · · · · · · · · · · · · · · ·
4.	*bjet < *mai	
Gan-Nanchang (Jiangxi)	piet7	(Xiong 1983:68)
Gan-Ruijin (Jiangxi)	piet7	(Luo 1989:160)
Gan-Gaoan (Jiangxi)	piet7	(Yan 1982a:80)
Gan-Anyi (Jiangxi)	piet7	(Gao 1988:133)
Yue-Jiangmen (Guangdong)	pit7	(Zhan, Cheung 1988:204)
Kejia-Xinzhu (Taiwan)	pit ⁷ pit ⁷	(Bauer 1990)
Wu-Quzhou (Zhejiang)	cia32 pie?2	
Xiang-Changsha (Hunan)	pie7	(Bauer 1985)
Min-Shaowu (Fujian)	pie ⁵ -pie	(Norman 1987:100)
Wu-Wenzhou (Zhejlang)	pei7	(Nakajima 1983:621)
Wu-Shanghai	fibi2 ka? ts	
Wu-Qingtian (Zhejiang)	b <u>i</u> 22	(Ballard 1988)
Wu-Yongjia (Zhejiang)	B133	(Ballard 1988)
Loudi (Hunan)	b12	(Yan, Llu 1990:158)
Mandarin-Beijing	pi ¹	(Bauer 1985)
Mandarin-Changzhi (Shanxi)	pi ¹ .	(Hou 1985:85)
Mandarin-Xinzhou (Shanxi)	pi ¹	(Wen 1985:34)
Mandarin-Dunhuang (Gansu)	pi ¹	(Liu Ling 1988:153)
Mandarin-Wuhan (Hubei)	pi ¹	(Bauer 1985)
Shaoyang (Hunan)	pi ¹	(Bao 1989:200)
Gaoglao (Hunan)	pi ¹	(Zhang, Wang, Shen 1988:281)
Mandarin-Guiyang (Guizhou)	pi ¹	(Wang 1981:125)
Mandarin-Liuzhou (Guangxi)	p11	(Bauer 1985)
Kejia (Guangdong)	pi ¹	(Maciver 1982:606)
Mandarin-Ltsi (Jiangsu)	pi ¹	(Lu 1986:65)
Lianshul (Jiangsu)	pi ¹	(Hu 1989:133)
Mandarin-Yuexi (Anhui)	pi1	(Chu 1987:285)
Mandarin-Taiyuan (Shanxi)	pæ3 pi1	(Wen 1981:305)
Mandarin-Xuzhou (Jiangsu)	pii siãi tsp	
Wu-Shanghai	pir1	(Sherard 1982:158)
Jixi (Anhui)	Pl1	(Zhao 1989:128)

Mandarin-Guilin (Guangxi)	pæ1	(Yang 1982:146)
Mandarin-Tianjin (Hebei)	pai ts19	(Li, Liu 1986:72)
Kelia-Hulzhou (Guangdong)	pe1	(Zhan, Cheung 1988:204)
Min-Yilan (Taiwan)	gio² pe¹	(Lan 1980:234)
Wu-Wenzhou (Zhejiang)	pøj	(Nakajima 1983:621)
, ,	•	,
·5.	*phjet < *bje	t
Wu-Wenling (Zhejtang)	phie?44	(Ballard 1988)
Wu-Pujiang (Zhejiang)	phiə?42	(Ballard 1988)
Wu-Jinhua (Zhejiang)	1544 phie72	
Min-Chaozhou (Guangdong)	phi?8	(Choy 1976:312)
Wu-Songyang (Zhejiang)	ph1?44	(Ballard 1988)
Mandarin-Xining (Qinghai)	phj ¹	(Zhang, Zhu 1987:151)
Mandarin-Xian (Shaanxi)	phi ¹	(Bauer 1985)
(0.000,000,000,000,000,000,000,000,000,0	F	(===4: 1555)
6. *phai <	*bai < *mai <	*ts1 mai
Min-Yilan (Taiwan)	bai1 a3 b	
Kejia-Zhongshan (Guangdong		(Zhan, Cheung 1988:204)
Yue-Taishan (Guangdong)	hai ¹	(Zhan, Cheung 1988:204)
Yue-Hongkong	hai1	(Zhan, Cheung 1988:204)
Yue-Jiangmen (Guangdong)	hei ²	(Zhan, Cheung 1988:204)
Yue-Xinhui (Guangdong)	hæi ¹	(Zhan, Cheung 1988:204)
Yue-Jintian (Hongkong)	hei ¹	(Zhan, Cheung 1988:204)
Kejia-Dongguan (Guangdong)		(Zhan, Cheung 1988:204)
ricja bonggam. (camigoong)		(Simily officing 1999)29 (
7.	dzuk to copul	ate'
Gan-Nanchang (Jiangxi)	tshok ⁷	(Xiong 1983:68)
Gan-Gaoan (Jiangxi)	tshok7	(Yan 1982b:235)
Wu-Shanghal	tsho?7	(Sherard 1982:158)
Mandarin-Beijing	tshau ⁵	(Bauer 1985)
Wu-Wenzhou (Zhejiang)	tçuɔ1	(Nakajima 1983:621)
Mandarin-Lüsi (Jiangsu)		'copulate' (Lu 1986:65)
, , , , , , , , , , , , , , , , , , , ,	,	
Proto-Tibeto-Burman Variants	s:	
*dzuk mat ~ *dzu mat	., *dzuk b(i)	et, *dzuk ~ *dzu, *mat,
	(j)et, *həi, *	
Previous Reconstructions:	-,	

Tibeto-Burman: *hai, *kai (Matisoff's roots cited Benedict 1979:30)

(Benedict 1972:53)

(Shafer 1952:15)

(Matisoff 1972:30) (Bradley 1985:44)

Burmese-Lolo: *dźuk

Lolo-Burmese: *b(j)et

Kukish: *t∫hu

Loloish: "dza2 batL

1.	*dzuk ma	
Hpun-Northern (Megyaw)	zừ? mà	(Henderson 1986:128)
	'pudenda (female)'	
Burmese-Written	tsok pat	(Bradley 1986)
Burmese-Modern	sau? pa?	(Yabu 1980:169)
2.	*dzu ma	
Hpun-Northern (Megyaw)		(Henderson 1986:133)
Bodo	t∫i pha	(Benedict 1979:23)
Dimasa	si pau	(Benedict 1979:23)
Rawang	mə zo	(Benedict 1979:23)
Chin (Zo)-Lai Len Pi	mě t∫hu'¹	(Luce 1985:86)
	ik b(j)et - *dzu b	
Burmese-Modern	sau? pe?	(Yabu 1980:169)
Burmese-Yaw	sau? phe?	(Yabu 1980:169)
Akha	do per 'cunt'	(Brun 1973:157)
Mpi	to ³¹ phe ³¹	(Bradley 1986)
Bisu-Hual Chomphu	tò pè	(Bradley 1988:4)
Bisu-Takl	tà pè	(Bradley 1988:4)
Mru	ta pel 'to copulate'	(Luce 1985:91)
Lisu	tu1 bi6	(Bradley 1986)
Central Yi	tu55 bi31	(Bradley 1986)
4.	*dzuk	
Maru	dzok	(Benedict 1972:53)
rGyarong-bTsan Lha	Po Ndzjuk	(Nagano 1979:39)
rGyarong-lCog rtse	[?] u sjtuk	(Nagano 1979:39)
Kanauri	tsuk (jimig)	(Bailey 1910:695)
	'copulate (vb suffix)'	
Burmese-Written	t jok	(Benedict 1979:23)
Tangsa	tsut 'vagina'	(Bandyopadhyay 1989:87)7
Atsi	dgu?	(Benedict 1979:23)
Atsi-Sadon	tgu?	(Yabu 1982:21)
Atsi-Sadon	tsho? 'to copulate'	(Yabu 1982:21)
Chang Naga	Jūk	(Hutton 1987:115)
Hpun-Northern (Megyaw)	só?'vagina'	(Henderson 1986:133)
input tiormetti (megyaw)	Jo. vagana	(
5.	*dzu	
Vayu	dzu-dzu	(Shafer 1952:15)

Other apparently related forms are Tangsa toit 'penis' and toát 'intercourse' (op. ctt. p. 86). [Ed.]

Lushei	t∫hu	(Shafer 1952:15)
Chin (Zo)-Haka (Lai)	t∫hu¹	(Luce 1985:86)
Chin (Zo)-Lushei	t∫h'u²	(Luce 1985:86)
Chin (Zo)-Me Ra (Darling)	t∫hu'¹	(Luce 1985:86)
Chin (Zo)-Loto (Hriangpi)	t∫hə ³	(Luce 1985:86)
Tibetan-Written	stu	(Qu, Tan 1983;21)
Gyarung	te stu	(Benedict 1979:23)
rGyarong-Tzu Ta	te stu	(Nagano 1979:39)
rGyarong-Suo Mo	te ∫tu	-
Tibetan-Written	rtu	(Nagano 1979:39) (Nagano 1978:9)
Tibetan-Glo	tu	(Nagano 1982a:487)
Tibetan-Lhasa	tu	(Nagano 1982b:91)
Tibetan-Kag	tu	(Nagano 1982b:91)
Tibetan-Rag Tibetan-Zhar	tu	
	tu	(Nagano 1982b:91)
Tibetan-Dangar Thakali	tu	(Nagano 1982b:91)
	tu ³	(Benedict 1979:23)
Manang-Prakaa	tu ¹	(Hoshi 1984:160)
Manang-Gyaru	thu ¹	(Nagano 1984:208)
Chin (Zo)-Ahraing K'umi	thu ¹	(Luce 1985:86)
Chin (Zo)-Ma Tu Pi	thu ⁵	(Luce 1985:86)
Chin (Zo)-Zo Tung	thu ⁵	(Luce 1985:86)
Chin (Zo)-Tan P'um	ăthu	(Luce 1985:86)
Chin (Zo)-Awa K'umi	atnu a tŭ	(Luce 1985:86)
Lepcha	· a tu zù	(Benedict 1979:23)
Karen-Palaychi	shu¹	(Burling 1969:60)
Chin (Zo)-Kualsim		(Luce 1985:86)
Chin (Zo)-Hualngeu	shu ²	(Luce 1985:86)
Chin (Zo)-Tedim	shu ²	(Luce 1985:86)
Chin (Zo)-Asho (Sandoway)	ă`∫ü²	(Luce 1985:87)
Chin (Zo)-Wo Ma Tu	∫u³	(Luce 1985:87)
Chin (Zo)-Xongsai	∫u². su²	(Luce 1985:86)
6.	*bat < *mat	
Sak-Bawtala	2ăpa?1	(Luce 1985:62)
Ganan	pa?4	(Luce 1985:62)
Kadu (Kantu)	pa?3	(Luce 1985:62)
Sak-Bawtala	ăpau	(Luce 1985:62)
		(
7.	*b(j)et < *mat	
Sak-Dodem	ăpet	(Luce 1985:62)
Akha	à bè?	(Benedict 1979:31)
Lahu	t∫a pè?	(Benedict 1979:31)
Kanauri	phe:ts	(Bailey 1910:702)

Tangsa	pè 'vagina'	(Bandyopadhyay 1989:80)
Phunoi	pè tò	(Benedict 1979:31)
Sani	pæ55	(Bradley 1986)
Sani	p€ ⁵⁵	(Wu et al 1984:4)
Haoni	tsò pì	(Bradley 1985:44)
Southern Yi	pi55 -	(Bradley 1986)
Moso-Weihsi	pi51	(Stadicy 1960)
Tamang	pi t∫i	(Benedict 1979:31)
Bahing	pi si	(Benedict 1979:31)
8.	that that	
Umbu	*həi, *kəi	
Tangkhur Naga	hi rā	(Benedict 1979:30)
Mru	hai [həi]	(Bhat 1969;68)
WII U	hai ²	(Luce 1985:88)
Austro-Tal Variants:		
	t, *dzu b(j)et, *dzuk, *	dzu, *b(j)et
1.	**	
Sut	*bat	
Jul	pat ⁷	(Benedict n.d.a:3)
2.	*dzu b(j)et	
Saisiyat-Tungho	topi?	(LI J.K. 1978:163)
Saisiyat-Taai	topi?	(Li J.K. 1978:163)
Japanese-Kanagawa	tubi	(Narusawa 1986:128)
Japanese-Tokyo	tu:bi	(Narusawa 1986:128)
0	y de de de la companya de la compan	
3.	*dzuk	
Isamorong	tsoktsok	(Tsuchida et al 1987:43)
	'sexual intercourse (to have	
Malay	ancuk	(Abas 1983:14)
	'to copulate, unite with'	
Indonesian	ancuk	(KBITH 1976:20)
	'to copulate'	
Japanese-Shizuoka	otsoko	(Narusawa 1986:128)
Ве	đu?5	(Hashimoto 1980:158)
4.	*dzu	
Japanese-Osaka	ot[ot[o	(Narusawa 1986:128)
Japanese-Tokushima	ososo	(Narusawa 1986:128)
· · · · · · · · · · · · · · · · · · ·	03030	(14d1 U5dwa 1500.120)
5.	*mat	
Japanese-Yamagata	matso	(Narusawa 1986:128)
	•	

Zhuang-Wuming	ma:i6	(ZHCH 1984:501
6.	*b(j)et	
Japanese-Akita	beEa	(Narusawa 1986:128
Babuyan	obet	(Tsuchida et al 1987:42
lvasay	ovet	(Tsuchida et al 1987:42
Isamorong	ovet	(Tsuchida et al 1987:42
Isamorong	isbit	(Tsuchida et al 1987:42
Japanese-Miyagi	betso	(Narusawa 1986:128
Japanese-Ishikawa	tsa be	(Narusawa 1986:128
Japanese-Saga	tsan be	(Narusawa 1986:128
FIII	mbe mbe	(Dyen 1970:437)
Japanese-Ibaraki	bebe	(Narusawa 1986:128)
Japanese-Tokyo	bebe	(Narusawa 1986:128)
Mulam (Mulao)	p∈6	(Benedict n.d.a:3)
Japanese-Okinagarabejima		(Nakamoto 1981:77)
Japanese-Okinagarabejima		(Nakamoto 1981:77)
Ivasay	bi:bi	(Tsuchida et al 1987:42)
Japanese-Okinagarabejima	bibi	(Nakamoto 1981:77)
Isamorong	bibi	(Tsuchida et al 1987:42)
Atayal	p1p1?	(Egerod 1980:470)
Miao-White	p1? (low checked	tone) (Benedict 1975:417)
Japanese-Okinawa	pi:	(Nakamoto 1981:77)
Japanese-Amami Oshima	рi	(Nakamoto 1981:77)
Mokilese	рi	(Harrison, Albert 1977:162)
Japanese-Kikaijima	φi	(Nakamoto 1981:77)
Japanese	hehe	(Narusawa 1986:128)
Zhuang-Wuming	hi ¹	(ZHCH 1984:425)
Tai Khamti	hi4	(Harris 1976:138)
Lao	hi	(Li F.K. 1977:253)
Ahom	hi	(Li F.K. 1977:253)
Shan	hi	(LI F.K. 1977:253)
White Tai	hi	(LI F.K. 1977:253)
Nung	hi	(LI F.K. 1977:253)
Thai	hi:5	(Sakamoto 1976:44)
Japanese-Okinawa	hi:	(Narusawa 1986:128)
Japanese-Kagoshima	hi:	(Nakamoto 1981:77)
Japanese-Amami Oshima	çi:	(Nakamoto 1981:77)
Japanese-Amami Oshima	çi	(Nakamoto 1981:77)

Bibliographic Note:

This appendix cites two sources in an abbreviated form; both are listed in the bibliography.

KBITH refers to Kamus Bahasa Indonesia-Tlong Hoa Dengan Ejaan Baru.

ZHCH refers to Zhuang-Han Cihut.