

Philol 950.55

# LINGUISTICS OF THE TIBETO-BURMAN AREA

Volume 28.2

Fall 2005



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#### *Acknowledgments*

Publication of LTBA has been supported in part by grants from:

The National Science Foundation (NSF), Division of Behavioral & Cognitive Sciences, Linguistics, Grant Nos. BNS-86-17726, BNS-90-11918, DBS-92 09481, FD-95-11034, SBR 9808952 and BCS-9904950; and the National Endowment for the Humanities (NEH), Preservation and Access, Grant Nos. RT 20789-87, RT-21203-90, RT-21420-92, PA-22843 96 and PA-23353-99 in the US, and by a grant from the School of Communication, Arts, and Critical Enquiry, La Trobe University in Australia.

Manuscripts should be submitted to:

Dr. Randy J. LaPolla  
Linguistics  
La Trobe University  
Bundoora, VIC 3086  
AUSTRALIA

or [r.lapolla@latrobe.edu.au](mailto:r.lapolla@latrobe.edu.au)

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LTBA / Linguistics Department  
University of California  
1203 Dwinelle Hall #2652  
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ISSN: 0731-3500. Library of Congress No.: 82-640813. OCLC No.: 4790670.

# LINGUISTICS OF THE TIBETO-BURMAN AREA

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Volume 28.2

Fall 2005

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## ONCE MORE ON THE LETTER $\alpha$ <sup>1</sup>

**Nathan W. Hill**

Harvard University / Universität Tübingen

W. S. Coblin, in a contribution (2002) to the ongoing discussion about the phonetic value of the Tibetan letter  $\alpha$  (transcribed as  $v$ ), has argued that this character has no phonetic value per se but is rather an orthographic device. A review of the previous literature and consideration of Coblin's arguments in contrast agree with the finding that before vowels and the glide  $-w-$  the letter  $v$  represents a voiced fricative, while before consonants it stands for prenasalization; in the former position, the value  $[\gamma]$  is argued for. The use of final  $-v$  in Old Tibetan inscriptions suggests that in that position too  $-v$  has the value  $[\gamma]$ . Finally, with a view to the internal reconstruction of the Tibetan verbal system, consideration is given to the question of whether the various phonetic values of  $v-$  represent a unitary phoneme.

Keywords: Tibetan, orthography, Tibeto-Burman, Sino-Tibetan

### 1. INTRODUCTION

The phonetic value of the character  $\alpha$   $v$ <sup>2</sup> has been the subject of controversy for over a century. The consensus is that before vowels and the glide  $-w-$  the letter  $v$  represents a voiced fricative (either  $[f]$  or  $[\gamma]$ ), and before consonants it stands for prenasalization.<sup>3</sup> W. S.

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<sup>1</sup> I would like to thank Prof. Jay Jasanoff, Prof. Stephanie Jamison, and Prof. Zev Handel for their suggestions on an earlier version of this paper.

<sup>2</sup> For the purposes of this essay I follow the Chinese convention of transliterating  $\alpha$  as  $v$ , in order to avoid the use of the confusing symbol  $\langle' \rangle$ .

<sup>3</sup> Compare Dragunov 1939; Miller 1955b: 481-82; 1994: 71; Róna-Tas 1962: 1966: 129 n. 142, and p. 143; 1992: 699; Siklós 1986: 308-309; and Zhang 1987: 75-80.

Coblin (2002) has recently challenged this understanding of initial *v*-, but an examination of his alternative explanation shows it to be wanting. The use of *-v* as a final has not been well researched; most researchers believe that the letter has no phonetic value in final position (e.g. Beyer 1992: 43 n. 6). The examination of final *-v* in Old Tibetan texts to follow gives some indication that it indeed has a phonetic value, most likely [γ].

## 2. 'A-CHUNG' AND 'A-CHEN'

The letter ࠠ *v* is called the '*a-chung*' (little *a*) by Western scholars as opposed to ࠡ *q*<sup>4</sup> the '*a-chen*' (big *a*), but these names appear never to have been used by Tibetan grammarians themselves, and are avoided here. Since these two letters are often erroneously conceived of as a pair a short digression on the letter *q* is in order.

The Indic ancestor of the character *q* is used to represent vocalic onset, and the corresponding character in the Vphags-pa script ࠡ also represents vocalic onset (Ligeti 1961: 204-212). However, it has been suggested that in Tibetan *q*- indicates a glottal stop [ʔ]. Jäschke describes it as such (1881: xiv), presumably for the reading pronunciation of Ladakh, and by Miller for 'Central' Tibetan (1955a: 47, §1.3.2 and 49, §3.3.1). However, in some dialects, words spelled with initial *q*- are pronounced as beginning with simple vowels (e.g. Balti, cf. Bielmeier 1985: 245; Shigatse, cf. Haller 2000: 296; Dingri, cf. Herrmann 1989: 304-305). In other dialects, there is no contrast between initial glottal stop and initial vowel (e.g. Drokpa, cf. Kretschmar 1986: 21).

Zhang (1987: 41-46) gives three reasons why she thinks *q*-represents a glottal stop in Old Tibetan: First, the transliteration of the Chinese character — 'one' in one text as *qyi* and not *yi*, reflects a glottal stop in Chinese. Second, the Tibetan grammarians describe the character as a consonant and not as a vowel. Third, Zhang's

<sup>4</sup> I transliterate ࠡ as *q*, although it is omitted in transliteration by Western Tibetologists, and the Chinese transliterate it as *x*.

paraphrase of the Chinese translation of the *Gser tog sum rtags* (misspelled *rtogs* by Zhang) reads, “when producing the sound *q* the middle part of the tongue should be lifted near the palate” (1987: 46). She does not quote the Tibetan text (or the Chinese translation which appears in her bibliography) nor does she cite a page number. She seems to have intended the passage “*qa ni rkan-las byung-zhing lcevi rked-par cung-zad nye bavi byed-pas bskyed-cing / brjod tshul ni shin-tu lhod-pa-dang* / The *q*, arising from the palate, is produced by nearing the middle of the tongue a little [to the palate]; the mode of articulation is very relaxed” (Blo bzang tshul khrims rgya mtsho 1891: 48, my translation).

As for her first reason, Zhang herself admits that another motivation for such a transliteration is to match the tone of the Chinese original more closely (1987: 42). Regarding her second reason, it should be remarked that *q-* does not function in the Tibetan script as a vowel, but rather as a null consonant. The vowel *a* is inherent in any *akṣara* unless another vowel is added to it. The interpretation of the character *q-* as marking vocalic onset is thus fully consistent with the indigenous description of it as a (null) consonant. Finally, the pronunciation Blo bzang tshul khrims rgya mtsho describes in 1891 seems little relevant to the Old Tibetan period a thousand years earlier. There are thus no strong arguments for analyzing *q-* as a glottal stop onset as opposed to vocalic onset. Since the Indic ancestor of this character indicates an initial vowel, and its heir in the Vphags-pa script does so as well, the neutral position is to assume that *q-* similarly indicated an initial vowel in Old Tibetan. Perhaps all vowel initial words were articulated with a sub-phonemic glottal stop as in German; in this case *q-* may have been accompanied by a glottal stop, but it certainly does not represent a glottal stop.

### 3. *V-* AS A PLAIN INITIAL

The pronunciation of *v-* as a voiced fricative before the vowel *-o* and the glide *-w* (Róna-Tas 1962: 338-339, and 1966: 131) and between vowels (1966: 129 n. 142) is preserved in a number of Tibetan dialects.<sup>5</sup> The position of *v* in the Tibetan alphabet suggests its value as a voiced correspondent of *h* (loc. cit.). The character *v-* has been used to transliterate a \**γ-* in Middle Chinese (Miller 1955b: 481-482). The discussion of indigenous Tibetan phonologists further buttresses the view that *v-* represents [γ-] or [fi-]. Bsod nams rtse mo (1142-1182) writes, “*vas vphul gre-bavi phug-nas dbyung* [the prescription with *v* is articulated from the cavity of the throat]” (qtd. in Róna-Tas 1985: 252, my translation). This description indicates a velar or glottal articulation. Bsod nams rtse mo’s use of the word *vphul* ‘prescription’ might imply that he is discussing *v-* as the initial of a consonant cluster and not as a simple initial. Róna-Tas suggests that the pronunciation Bsod nams rtse mo describes “ist die Aussprache der isolierten Buchstaben, und daher gibt sie nur indirekt Auskunft über die Aussprache der Laute im Wort [is the pronunciation of the isolated letter, and therefore gives only indirect information about the pronunciation of the sound in a word]” (1985: 252). Thus, although Bsod nams rtse mo appears to claim to describe the pronunciation of *v-* as the initial of a cluster, in fact the pronunciation he describes is that of a simple initial, as it would be pronounced when reciting the alphabet. Tavi si tu Chos kyi vbyung gnas (1699/1700-1774) describes *v-* as voiced and articulated in the velar or glottal region (“*phyi-rol-du sgra thon-pa* [the voice expelled

<sup>5</sup> Róna-Tas cites the following examples from the literature of the pronunciation of *v-* before vowels: “L[iterary]T[ibetan] ‘*o-ma* ‘milk’ // Gol[ok] *γo-ma*, [word list of] Prz[evlaskij] roma, Kha[m] *γo-ma*; L[iterary]T[ibetan] ‘*od* ‘light’ // Kha[m] *γod*, Cha[mdo] *høʔ*”. LhK [not included in list of abbreviations: Lhasa?] *fiøʔ*...” (1966: 131 n. 155). He cites the following examples of *v-* between vowels: “L[iterary]T[ibetan] *spre’u* ‘monkey’ // Kha[m]J *štre-γǝ*, Der[ge]M *t’re-wu*; [...]” (1966: 129 n. 142).

out],” “*skye-gnas mgrin-pa* [the place of articulation the throat]” quoted in Miller 1962: 922, 924, my translation).

Typological considerations weigh in on the question of whether the phonetic value of *v-* in this position is [ɣ] or [ɦ]. Languages which have a phonemic contrast between /h/ and /ɦ/ are very rare. Maddieson finds that only two languages out of the 918 languages he studied distinguish /h/ and /ɦ/ (1984: 57); unfortunately he does not name which two. I have found this contrast described in the phonologies of three languages. The Wu dialects of Chinese have distinct initials [h-] and [ɦ-], but “[t]here is no actual contrast between murmured and voiceless initials that is not simultaneous with a tonal contrast” (Simmons 1999: 53). The Lamé language of Cameroon is described as having a true segmental contrast between /h/ and /ɦ/, e.g. *hào* ‘griller à la flamme, [to flame broil],’ *hào* ‘bagarre [row, ruckus]’ (Sachnine 1982: 168). All words beginning with [ɦ-] are low tone, whereas words beginning with [h-] are not restricted as to tone (op. cit.: 507-520).<sup>6</sup> Finally, the Yadu dialect of Qiang also has a segmental contrast between /h/ and /ɦ/ as shown in the minimal pair *ha-qa* ‘to go up’ and *ɦa-qa* ‘go down’ (LaPolla with Huang 2003: 24). The authors note that “/ɦ/ only appears as the initial of one of the directional prefixes and a commonly used filler/emphatic interjection /ɦa/” (op. cit.: 23). Interestingly, no phonemic tonal contrasts are described for this language.

Considering the typological rarity of languages which distinguish [h-] and [ɦ-], if the Tibetan letter *h-* represents the sound [h-] then the letter *v-* is more likely to represent [ɣ-] than [ɦ-]. Concerning the phonetic realization of *h* Róna-Tas writes, “[i]t is uncertain whether this phoneme was a guttural [=velar] or laryngeal [=glottal] in O[ld]T[ibetan]” (1966: 128 n. 135). In contrast Coblin writes, “W[ritten]T[ibetan] *h* most often corresponds to laryngeal

<sup>6</sup> The related Musey language of Cameroon also has distinct phonemes symbolized as <h> and <ɦ>, but in fact the distinction is not one of voicing. For a description of this contrast, and its relationship to the tonal system of Musey, see Shryock (1995).



[=glottal] fricatives in modern Tibetan dialects, and it is probable that the O[ld]T[ibetan] value was laryngeal rather than velar" (2002: 176), although he does not cite any dialect evidence. He could have cited the following dialects: Lhasa (Tournadre and Dorje 2003: 23 and 525), Shigatse (Haller 2000: 185, 186, and 296), Drokpa (Kretschmar 1986: 367-369), and Rebgong (de Roerich 1958: 155-156).<sup>7</sup> In contrast, Balti has no reflexes of Tibetan *h* and all examples of *h* in Balti are in Persian loans (Bielmeier 1985: 238, 245). I have not located in the literature a correspondence between written *h*- and dialect pronunciation as [x-]. Also arguing in favor of the pronunciation [h-] is the fact that the Indic ancestor of the letter *h*- represents the sound [h-]. However, one fact could argue in favor of [x-]. Róna-Tas (1966: 129 n. 142) suggests on the basis of its placement in the alphabet that *v* is the voiced correspondent of *h*. If it is unlikely that the pair had the pronunciation [h̥-] and [h-], it would seem more likely that the pair had the pronunciation been [ɣ] and [x]. Languages which have [ɣ] do have a tendency to have [x] as well, but this generalization has a high exception rate of 37.5% (Maddieson 1984: 47). In my own view, [ɣ] and [h] are similar enough to warrant the placement of *v* in the Tibetan alphabet, even if this contrast were between [ɣ] and [h] rather than [ɣ] and [x]. The preponderance of evidence appears to point to the letter *h*-

<sup>7</sup> The number of Written Tibetan words beginning with *h*- is quite small. Lhasa dialect has such examples as *hago* 'comprendre [understand]' and *halas* 's'étonner [be surprised]' (Tournadre and Dorje 2003: 23 and 525). Shigatse has *hā khor* < *ha go* 'wissen [know],' *hāṭcā* < *ha cang* 'überaus [very much],' *hāṅsāṅ* < *hang sang* 'erstaunt sein [be astonished],' *hāp* < *hab* 'großer Stich [a bad sting],' *hāmpā* < *ham pa* 'Lüge [a lie],' and *hū:pō* < *hur po* 'fleißig [diligent]' (Haller 2000: 185, 186, and 296). Drokpa has *hākhō* < *ha go* 'verstehen, erkennen [understand],' *hālām* < *ha lam* 'ungefähr, etwa [about, around],' *hāmpātsān* < *ham pa can* 'habgierig [greedy],' *hān* < *hang sang* 'erstaunt sein [be astonished],' *hōnthōr* < *hon vthor* 'entsetzt sein [to be appalled],' and *hūrthāk* < *hur thag* 'unvermittelt [abruptly]' (Kretschmar 1986: 367-369). Rebgong has two examples: *ho-dīr* < *ho-dir* 'hurlement [cry, howl]' and *ha-lam* < *ha-lam* 'presque, environ [almost, about]' (de Roerich 1958: 155-156).

representing the sound [h-] and not [x-]. Consequently, the phonetic value of *v*- is more likely to be [ɣ-] than [h-].

Despite the convincing dialect data that *v*- represents a voiced fricative, the view persists that *v*- as an initial before vowels represents no consonant at all.

When this graph [...] appears in the center graph position, [i.e. before a vowel or glide] it indicates the absence of an INITIAL consonant: that is, it represents a smooth vocalic ingress. (Beyer 1992: 43 n. 6, small capitals in original)

[I]n a small number of words, which in many modern dialects have pure or smooth vocalic ingress rather than an initial consonant, 'a-chung [= *v*] indicates the absence of any other consonant. (Coblin 2002: 169, emphasis in original)

Either Beyer and Coblin are unaware of the dialect evidence suggesting the value of [ɣ-], or they intend to suggest that such pronunciations have developed from zero in those dialects where they are attested. Fricatives have been known to arise *ex nihilo*, as in the case of rough breathing before all upsila in Greek (e.g. ὕπερ < \*uper(i); Frisk 1955-1972), or [h-] for erstwhile vocalic onset in the Drokpa dialect of Tibetan.<sup>8</sup> However, because dialects such as Golok, Kham, and Chamdo tend to be phonetically conservative (e.g. they preserve consonant clusters), their testimony in the case of [ɣ-] for *v*- should not be lightly disregarded (see note 5).

The letter *q*- has already been shown to represent vocalic onset. Old Tibetan is unlikely to use both *q*- and *v*- to represent vocalic onset, and indeed much evidence points instead to the pronunciation of a simple initial *v*- as [ɣ-]. If Beyer and Coblin, in contrast to most

<sup>8</sup> Drokpa has both [h] < *v* and [h] < *q* (e.g. *huo* < *vong* 'kommen [come]', and *hāpā* < *qapha* 'Vater [father]'; Kretschmar 1986), so Drokpa has developed an initial *h*- where Old Tibetan has vocalic onset, regardless of which letter represented vocalic onset in Old Tibetan.

researchers, believe that *v-* and not *q-* represents vocalic onset, the onus to demonstrate this is theirs.

As a simple initial consonant *v-* occurs only before the vowel *-o* (e.g. *vod* 'light'), the vowel *-u* (e.g. *vung-nas* 'after this'), and the glide *-w-* (e.g. *vwa* 'fox');<sup>9</sup> combinations such as *\*va* and *\*vya* do not occur. A simple initial *v-* is also found following a vowel before the genitive suffix or the diminutive suffix (e.g. *rgyal-povi* 'of the king,' *byivu* 'small bird').

#### 4. *V-* AS THE INITIAL CONSONANT OF A CLUSTER

As the initial of a cluster *v-* appears as the homorganic nasal to the following stop in conservative dialects such as Golok and Kham as well as in loanwords to Mongour (Róna-Tas 1966: 143-144, Sprigg 1968: 310).<sup>10</sup> In other dialects it occurs as various nasals (Róna-Tas 1966: 144 n. 270).<sup>11</sup> Even the innovative Lhasa dialect has a nasal within a word, where *v-* has been reanalyzed as the final of the preceding syllable, e.g. *dge-vdun* [gendün] 'clergy' (Siklós 1986: 308-309). Therefore, in Old Tibetan *v-* before a consonant

<sup>9</sup> The Written Tibetan letter བ *w-* is historically an Old Tibetan diagraph བྱ *vw-* (Uray 1955: 110). Old Tibetan has no words with initial *w-*. This fact is overlooked by Sun when he writes, "[t]here is some doubt concerning the original phonetic quality of the O[ld]T[ibetan] *w*, written <w>, as some modern dialects show voiced uvular reflexes, e.g. *ɸ-* (Amdo Xiaman, J. Sun 1996) or *ɸw-* (Dári達日 <Dar.lag>, Zhang 1996: 23)" (2003: 781 n. 17, emphasis in original). These reflexes would be expected from written *vw-*. The bibliographic information for J. Sun 1996 is lacking in his bibliography; he appears to intend Sun 1986: 204 #44.

<sup>10</sup> Golok has such examples as *vkhor-lo* [ŋkħor-] 'watch,' *vgro* [ŋgjo] 'go,' *vcham* [ntʃʃam] 'dance,' *vthung* [nthɔŋ] 'drink,' *sku-vdra* [-ndra] 'image,' *vjav* [ndʒa] 'rainbow,' *vdod-mo* [ndɔd] 'wish,' *mdav-vben-gyi* [-mpheŋ] 'of the target,' *vbar* [mbar] 'burn' (Sprigg 1968: 310). Kham has examples such as *vkhol-* [ŋkʰol-] 'to boil,' *vgul-* [ŋgul-] 'to shake,' *vthag-* [ntʰag-] 'to bind,' *vdod-* [ndod-] 'to wish,' *vdzin* [ndzen-] 'to seize,' and *vbab-* [mbab-] 'to fall' (Róna-Tas 1966: 143 n. 264). Examples of Mongour loanwords include *vkhor-lo* [ŋkʰuorlo] 'circle,' *vdu-khang* [ndogɔŋ] 'meeting-house,' *vphul-* [mpʰurla] 'to push,' and *rdo-vbum* [rɛ̃DuomBen] 'heap of stones' (Róna-Tas 1966: 143).

<sup>11</sup> Examples from Derge include *vkhyags* [ʰtʃaʰk] 'cold,' *vgro-* [ʰdʒro-] 'to go,' *vcham-* [ʰchom-] 'to agree,' *vjam-* [ʰdzampo-] 'soft,' and *vthag-* [ʰthɔpa-] 'to bind' (Róna-Tas 1966: 144 n. 270).

represented the nasal homorganic to that consonant.<sup>12</sup> In this environment *v*- occurs before voiced and voiceless oral stops.<sup>13</sup>

## 5. -V AS A FINAL

In Written Tibetan -*v* at the end of a syllable indicates that the preceding character is followed by the vowel *a* and is not a final consonant. Thus, ࠩ <*dg*> is read /dag/ whereas ࠩ <*dg**v*> is read /dga/. In the Old Tibetan inscriptions this use also seems to be at play; we have the standard Written Tibetan spellings *dgav* 'like, be fond of' (Zhol N54), *dmav* 'low' (Zhol N57), and *mngav* 'own' (Zhwavi Lha-khang W29, W59, E41).<sup>14</sup> However, in Old Tibetan the final -*v* occurs with mysterious inconsistency. In the Zhol inscription several words are inconsistently spelled with a final -*v* where it would not be expected following Written Tibetan orthography. The examples of grammatical endings are: -*stev* at S62, but -*ste* at S20, S32, S44, etc.; -*pav* at N44, but -*pa* at E11; -*nav* at N66, but -*na* at N10, N15, N26, N33, and N51; and -*lav* at S2, and S42, but -*la* at S2, S3, S5, S7, etc. The examples of lexical words are: *dpyav* 'tax' at S48, S51, but *dpya* at S47; *yi-gev* 'letter' at N32, but *yi-ge* two lines later at N34; *bu-tshav* 'descendents' at N50, but *bu-tsha* at N58; and *dgrav* 'enemy' at S28, but *dgra* at S37.

Although there appear to be no circumstances under which -*v* is required, it is also not the case that the use of -*v* is entirely haphazard and unpredictable. The character -*v* occurs only after the vowels *a*-, *u*-, and *e*-, never following *i*- or *o*-. The final -*v* occurs primarily on inflectional morphemes. In the *Old Tibetan Annals*

<sup>12</sup> The letter *v*- represents [m-] before labials; although the Tibetan letter *m*- can occur as the initial of a cluster, it nowhere occurs before labials (such as \**mph*- or \**mb*). Therefore the letters *v*- and *m*- are not in competition.

<sup>13</sup> According to Written Tibetan spelling rules, voiceless consonants following *v*- must be aspirated, but this rule is not consistently observed in Old Tibetan.

<sup>14</sup> All epigraphic citations are from Li and Coblin (1987).

(Wang and Bsod nams skyid 1988: 12-29)<sup>15</sup> the allative is written *-lav* on five occasions, the locative *-nav* on seven, the terminative is written *-duv* five times, and the semi-final converb appears twice as *-stev*.<sup>16</sup> The only other examples of *-v* are: *Rtsang.rhyav*: || a name PT1288.20 [652], *vdun||mav* ‘council’ IO750.29 [681], *dmev* ‘internecine strife’ IO750.39 [685], *Ldeg.ren.pav*: || a name IO750.99 [705], and *bkyev/* ‘send, emit’ IO750.190 [726]. In the Zhol inscription half the examples of *-v* occur on such inflexional morphemes (*vide supra*).

There is a marked tendency for a final *-v* to be placed immediately before a line break. In the *Old Tibetan Annals* ten of the 24 examples of this unexpected final *-v* are found immediately before a line break.<sup>17</sup> Six of the remaining 14 examples occur just before a *shad*.<sup>18</sup> I see no graphic motivation for the remaining eight examples.<sup>19</sup> The tendency for *-v* before a line break is also found in the Zhol inscription (with the three exceptions being both examples of *dpyav* and the single occurrence of *-nav*, *vide supra*).

<sup>15</sup> I have not considered the so-called ‘military annals’ here because it is a separate text and has considerably different paleography.

<sup>16</sup> The five examples of *-lav* are PT1288.5, PT1288.12 [643], PT1288.35 [659], PT1288.50 [670], and IO750.5 [673]. The seven examples of *-nav* are PT1288.7, PT1288.14 [649], PT1288.16 [650], PT1288.26 [654], IO750.121 [709], IO750.144 [714], and IO750.193 [727]. The five examples of *-duv* are PT1288.26 [654], PT1288.30 [656], IO750.30 [682], IO750.37 [684], and IO750.240 [742]. The two examples of *-stev* are PT1288.22 [653] and PT1288.28 [655]. These and all other examples of *-v* in the *Old Tibetan Annals* are given in the appendix.

<sup>17</sup> The ten examples of *-v* before a line break are PT1288.5, PT1288.20 [652], PT1288.26 [654], IO750.30 [682], IO750.37 [684], IO750.99 [705], IO750.121 [709], IO750.144 [714], IO750.193 [727], and IO750.240 [742].

<sup>18</sup> The six examples of *-v* before a *shad* are PT1288.7, PT1288.12 [643], PT1288.14 [649], PT1288.22 [653], PT1288.28 [655], and PT1288.50 [670].

<sup>19</sup> The eight remaining examples are: PT1288.16 [650], PT1288.26 [654], PT1288.30 [656], PT1288.35 [659], IO750.5 [673], IO750.29 [681], IO750.39 [685], and IO750.189 [726].

Such occurrences of *-v* become less frequent as the text of the *Old Tibetan Annals* proceeds. Whereas the first ten datable examples cover 643-659 (17 years), the last ten examples cover 681-742 (62 years). These data are consistent with the view that the *Annals* (or at least its archetype) was written nearly contemporaneously with the events it describes (Uray 1975). As the use of *-v* decreased with time, it also became less frequent in the entries of this document.

According to Written Tibetan spelling rules, when an *-s* is suffixed to a word ending with *-v*, the *-v* is dropped before adding the *-s*. In Old Tibetan this rule is not consistently observed. In the Bsam-yas inscription (l. 15) the past of *vdav* 'to pass beyond' is spelled as *vdavs* rather than *\*vdas*. In the Skar-chung inscription (l. 50) the past of *dmav* 'to lower, reduce' is spelled as *dmavs* rather than the expected *\*dmas*. The Zhol inscription observes the rule in the example (N19) *bkas* (= *\*bkav+s*) 'word (instrumental/ergative),' but the Rkong-po inscription has *bkavs* three times (ll. 13, 20, and 21) and the Mtshur-pu inscription consistently has *bkavs* (ll. 4, 27, 31, 34, 39, 46, and 66).

Spelling tends to be conservative; perhaps originally *-v* represented a final [ɣ] which was subsequently lost. Such a loss of a final voiced velar fricative is relatively common in the world's languages (e.g. in various Turkic languages, cf. Johanson 1998: 100; and in Finnish, cf. Hakulinen 1961: 41). Even though *-v* was no longer pronounced as a final consonant it was inconsistently spelled in those words and morphemes where it had once been pronounced. However, *-v* was not generally written where it had not represented a historical reality. Where there was an additional graphic motivation to follow the more archaic spelling, such as to fill out the end of a line or to disambiguate the location of the vowel, final *-v* was kept with more consistency than elsewhere. After the spelling reforms of the ninth century (Taube 1978; Scherrer-Schaub 2002) only the use of the character as a *mater lectionis* was retained. This

preliminary investigation into the use of *-v* in the *Old Tibetan Annals* and the Old Tibetan inscriptions has shown that this use of *-v* as a final is not an entirely meaningless and desultory orthographic practice.

## 6. OTHER USES OF *V*?

Coblin (2002) finds that in Old Tibetan *v* is used to mark foreign stop consonants in transcription, especially when the stop is voiced. He suggests that in such cases *v* was not used to approximate the foreign sound in Tibetan phonology, but rather simply “to alert readers to the fact that the Tibetan consonant letters to which ‘*a-chung* [= *v*]’ was attached were not to be pronounced in their ‘normal’ way” (2002: 176). In a similar context Miller writes:

When we recall what may happen in orthographic attempts between closely related languages at the hands of native-speakers well acquainted with both varieties – but lacking technical linguistic training – we may well be inclined to place somewhat less blind faith in the orthographic experiments of the unknown scribe [...] confronted with the truly formidable task of writing one totally different and unrelated language [...] in the received orthography of another language. (1993: 171)

In Coblin’s own data voiceless stops are intermittently transliterated as voiced and voiced stops are transliterated as voiceless.<sup>20</sup> It cannot be concluded that Tibetan makes no distinction between voiced and unvoiced consonants. Instead, one concludes that the transcribers were imperfect in their transcriptions. If *v* is frequently but inconsistently used to mark certain types of foreign stop consonants in transliterations of Chinese and Sanskrit, far from proving that *v* “has no phonetic value of its own” (Coblin 2002:

<sup>20</sup> For example, Chinese 卜 *puk*, Tibetan *vbug*; Ch. 弗 *pjuət*, Tib. *vbur*; Ch. 父 *bju*; Tib. *vphu*; Ch. 等 *tang*, Tib. *ding* (Coblin 2002: 172-173).

181), it shows merely that the transcriber had done his best to capture the foreign sound in his own orthography, and to him that sound was in some way like the sound that he wrote in his own language with a *v*.

Coblin mentions three particular occurrences of *v* in transcription which he finds noteworthy: the transcription of Chinese labiodentals, the transcription of Chinese velar fricatives, and the transcription of Chinese murmured or voiced stops. Coblin is correct when he points out that the Chinese consonant series most often transliterated with *v* in his data is the labiodentals and that Tibetan has no labiodentals.<sup>21</sup> However, the two consonant series least often transliterated with *v* – the retroflex stops and the retroflex fricatives – also do not occur in Tibetan. If the letter *v* were used to mark foreign consonants as foreign, the retroflex stops and fricatives would not have been spared. The motivation for transliterating the labiodentals with *v* must be sought elsewhere.

The transcription of a voiced labiodental fricative, in an example like 復 *bjuk* (<bj> here represents [v]) as *vbug* (Coblin 2002: 172), is not difficult to account for. The Tibetan letter *v* represents a voiced velar fricative and the letter *b* represents a voiced bilabial stop, thus the combination *vb* could easily represent a voiced bilabial fricative [β] which in turn is a good transcription for a voiced labiodental fricative [v]. In an example such as 富 *pjəu*- (<pj> here represents [f]) transcribed as *vphu* (loc. cit.), the letter *ph*- indicates both the position of articulation and the lack of voicing. The letter *v*- merely designates the sound as a fricative. The combination *vph*- yields a transcription [ϕ] for [f], which is again not inaccurate. However, a transcription such as 富 *hph*-, the current transcription in Tibet for a Mandarin Chinese *f*-, might have been better.

<sup>21</sup> It should be kept in mind that Coblin's data include only those cases where *v* could not be interpreted as transliterating prenasalization. Thus, discussion of frequency is relative to this selection criterion.



The group of consonants second most often transcribed with *v* is Coblin's "velars and laryngeals" (2002: 175). Coblin argues that, since Chinese had the velar fricatives  $\gamma$  and  $\chi$  whereas Old Tibetan had the glottal fricative *h*, in the Tibetan transcription of Chinese  $\gamma$  and  $\chi$  as *vh*- the letter *v* served merely to point out that the fricative in question had a different place of articulation than [h]. In fact, as *v* had the value [ $\gamma$ ], the transcription *vh*- would be a phonetically motivated way of writing [ $\chi$ ], the *v*- showing the place of articulation precisely and the *h* emphasizing that the sound is voiceless. There remains the question of why a Chinese  $\gamma$  was transcribed as *vh* when *v* alone would have sufficed to represent [ $\gamma$ ]. This question however can be subsumed to the frequent misalignment of voicing between the Chinese consonants and their Tibetan transcription in general, which probably indicates merely that Chinese and Tibetan had difference voice onset times for their voiced series.

Finally, Coblin notes "another striking feature of the data as a whole is the rather large number of Chinese syllables with voiced or murmured (i.e. *zhuo* 濁) initials" (2002: 176). The motivation for transliterating murmured stops with *v* is plain enough. Since *v* had the phonetic value [ $\gamma$ ] or [ $\hat{h}$ ] it is hard to imagine a better transcription for a sound like [b $\hat{h}$ ] than something like *bv* or *vb*. There is even good phonetic motivation for spelling the voiced sounds [g-], [b-], etc. with an apparently erroneous *v* as *vg*-, *vb*-, etc. The phonology of the Tibetan language at the time of the script's invention before 650,<sup>22</sup> the phonology of common Tibetan as reconstructable from dialectology, and the phonology of ninth century central dialect Tibetan (the language of much of Coblin's material) are not equivalent. In the Central Tibetan dialect

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<sup>22</sup> The year 650 is when annual record keeping begins in the *Old Tibetan Annals*. Previous years are reported retrospectively from that year. The year in which an annalistic practice on the part of the state began is at least a *terminus ante quem* for the invention of the script (cf. Uray 1975, Takeuchi 1995: 25 n. 5).

described by Denwood (1999)<sup>23</sup> syllables written with a plain voiced consonant initial are pronounced with voiceless low tone initials (e.g. *ga* [ka], 1999: 57), whereas syllables written with an initial cluster of *v-* and a voiced consonant are pronounced as a voiced low tone initial (e.g. *vgav* [ga], 1999: 64). A speaker of this dialect would therefore be likely to transcribe foreign [g-], [b-], etc. as *vg-*, *vb-*, etc. If the transcribers of Coblin's evidence spoke such a dialect, there would be no mystery in their use of *v*. There is ample reason to suspect that the transcribers spoke just such a dialect. In a study of Tibetan and Chinese bilingual inscriptions Laufer concludes that "the tone system existed in the language of Lhasa at least as early as the first part of the ninth century" (1914: 79-80) and that "[t]he superscribed and prefixed letters [i.e. initials of consonant clusters] were already mute at that time" (1914: 86). Miller, studying the same material, concludes that by the ninth century "the language of Central Tibet seems to have reached, as far as its phonetic structure is concerned, very nearly the same status in which we find it today" (1955c: 290). Zhang arrives at similar conclusions based both on Chinese transcriptions and on spelling variation in Old Tibetan texts. She finds that "the voiced unaspirated stops and affricates [...] had already become voiceless unaspirated stops" (1987: 105), but "the voiced stop consonant letters were actually pronounced [as voiced] when they appear in positions other than single [sic] initial position" (1987: 56). Finally, in the material examined by Róna-Tas, "Turkic *k-* and *t-* are transcribed as a rule with Tibetan *g-* and *d-* respectively" (1992: 699). But when "Turkic had an initial *d-* [...]" this was rendered as a rule by an *a-chung+d* [= *vd*] combination" and "[t]he Turkic initial *b-* can be expressed either with '*b-* [= *vb*]' or with *db-*" (1992: 702).

<sup>23</sup> Denwood himself describes the dialect of his study as 'Lhasa' but from linguistic criteria it is clear that it is the dialect of the region around Lhasa (or perhaps even of the standard Koiné of the Tibetan Exile) and not Lhasa city proper. Other descriptions of Central Tibetan agree with Denwood on these points (e.g. Miller 1955a: 49 §3.3.2-§3.3.7)

Coblin goes on to argue that the use of *v* as a ‘diacritic’ in transcribing foreign sounds suggests a similar use as a diacritic with indigenous words (2002: 177). Even if his premise were correct, his method would still be faulty. The use of a character to transliterate a foreign language would be determined by the character’s function in indigenous vocabulary and not vice versa. In order to make sense of the use of *v* to transliterate foreign stops, it is first necessary to show how it is used in indigenous vocabulary.

There is a diacritic in Written Tibetan but not Old Tibetan འ, which looks like a small *v* written below an *akṣara*. This symbol is used to transliterate a Sanskrit long vowel, e.g. ཨྱཱནྱྱ *ānanda* ‘peace.’ Although this symbol can be accurately described as a diacritic, it is in fact not *v* but rather a new symbol with a new size put in a new place. Just as the Tibetan character རྩ, used to represent the Sanskrit sound ṭ [ʈ], is not the same character as the Tibetan character ར, used to represent the Tibetan sound [t], so too the symbol used to mark Sanskrit long vowels འ is not the same character as letter འ *v* used in the functions [γ-], [N-], and [-Ø]. This new symbol འ should not be considered a use of *v*, although it does derive its graphic form from *v*. The use of *v* as a *mater lectionis* is the prototype of the new symbol’s use to mark Sanskrit long vowels. As a *mater lectionis* the letter *v* marks the location of a vowel, but is not itself articulated. This graphic shape is thus a logical choice for a symbol used to mark vowels in foreign words. Tibetan does not distinguish vowel length, so this new symbol འ also has no articulator realization.

The letter  $\nu$  itself has no other uses apart from the three  $[\gamma-]$ ,  $[N-]$ ,  $[-\emptyset]$  described previously.

## 7. AN ECONOMY OF SYMBOLIZATION

Coblin concludes his recent essay thus:

In summary then, we concur with the views of Sun [1986: 113-114<sup>24</sup>] and Sprigg [1987: 52-53] that *'a-chung* [=  $\nu$ ] was an “all-purpose orthographic device,” utilized for “economy of symbolization,” whether we speak of W[ritten]T[ibetan] or O[lid]T[ibetan], of native texts or of transcriptional texts. (2002: 183 emphasis and quotation marks in original)

It may be fair to call  $\nu$  a ‘multi-purpose’ orthographic device, but it is hardly an ‘all-purpose’ orthographic device. The letter  $\nu$  has three uses in indigenous Tibetan words, and no other uses. The question, then, is whether these different uses are clearly motivated, or are a haphazard collection of orthographic idiosyncrasies used for ‘economy of symbolization’ where  $\nu$  serves as a mere “diacritic” (2002: 177).

The principle of ‘economy of symbolization’ does not seem to play a large role in other orthographic traditions. Traditional Russian orthography used both the ‘soft sign’  $\mathfrak{ь}$  to indicate palatalization and the ‘hard sign’  $\mathfrak{ъ}$  to indicate non-palatalization. As the Russians later realized, only one of the two was necessary.

<sup>24</sup> Sun has since changed his thinking, writing: “the written sign *achung* [=  $\nu$ ] must have represented prenasalization as a prefix [i.e. initial of a cluster] and some voiced guttural spirant ( $*\mathfrak{h}$  or  $*\gamma$  or  $*\mathfrak{ɣ}$ ) as a root initial, but must have had nil phonetic value at the syllable coda position” (2003: 779 n. 14, emphasis in original). Later in the same essay: “I believe (contra an earlier view expressed in J. Sun 1986: 114) that O[lid]T[ibetan] originally had three voiced spirants:  $\mathfrak{z}$ ,  $\mathfrak{ɟ}$  < $\mathfrak{zh}$ >, and a guttural  $\mathfrak{h}$  or  $\mathfrak{ɣ}$  (written with root-initial *achung* < $\mathfrak{'}\mathfrak{h}$  [=  $\nu$ ]), the dialect reflexes of the latter include  $\mathfrak{ɣ}$  (in many Amdo varieties, while in other Amdo varieties it has dropped),  $\mathfrak{h}$  (Lhasa and many Central varieties), and  $\gamma$  (Zhongu, Baima)” (2003: 781 n. 18).

Chinese orthography has apparently embraced the exact opposite principle, using many thousands of symbols where about twenty would do. Even within Tibetan orthography ‘economy of symbolization’ has played a very small role. If reigning opinion is correct, Old Tibetan had two symbols ( ཨ *i* and ཨ̣ *i*<sup>25</sup>) for the same vowel /i/. Laufer (1914: 84) and Miller (1966) argue that the two represented sub-phonemic allophones. All other authors (e.g. Ulving 1972 and Róna-Tas 1992: 698-699) have regarded these two characters as meaningless graphic variants. Similarly, according to Benedict (1972: 20) and his followers, Old Tibetan needlessly distinguishes aspirate and non-aspirate voiceless stops, enshrining a sub-phonemic distinction in the orthography. In these two cases Tibetan orthography uses two symbols for one phoneme. Therefore it is unlikely that it uses one symbol for the two phonemes γ- and N- in order to conserve on symbols.

When diacritics are necessary in the West, rather than simply employing an underused character (such as *z*) scholars modify a pre-existing character with dots, hooks, or slashes. The symbol ‘ṭ’ represents a voiceless retroflex stop because ‘t’ already represents an voiceless dental or alveolar stop. The Tibetans did likewise. The Indic script which they modelled their script after had a symbol for [tʃ], namely ढ *c* (or something looking very like it), but lacked a symbol for the Tibetan sound [ts]. Therefore a hook was added to ढ *c* in order to make ढ̣ *ts* the new symbol for [ts]. The diacritic ञ̣ used to mark Sanskrit long vowels derives its use from the late diacritic like function of -v as a *mater lectionis*. When creating diacritics Tibetan practice has not been to redeploy an underused symbol in a phonetically unmotivated way in order to conserve the total number of symbols needed to write the language. Instead, they

<sup>25</sup> The transliteration of this character is not standardized; many authors do not transliterate it at all. One sees also <I> and <T>, but I prefer <Ị>, and employ it here.

have invented new phonetically motivated symbols, as have other orthographic traditions.

Coblin could be interpreted as making the milder claim that the three uses of *ᳵ* cannot be regarded as the same phoneme. The only two uses of *ᳵ* which have been phonemically associated are its use before vowels (a voiced velar fricative) and its use before consonants (prenasalization). Róna-Tas treats these two uses of *ᳵ* (γ- and N-) differently in his 1966 monograph, for which Miller makes the following criticisms:

[I]n his treatment of W[ritten]T[ibetan] *ᳵ* [= *ᳵ*], he has taken apart a phonemic unit which, both for descriptive and for historical consideration, is better left intact. [...] The decision to lump together two phonetic entities in complementary distribution, one an initial voiced velar spirant [fricative], the other a homorganic nasal initial in consonant cluster, under a single phoneme, W[ritten]T[ibetan] *ᳵ* [= *ᳵ*], is a phonemic decision as old as the Tibetan script. The Tibetan grammarians learned their phonemics long ago in India or from Indic sources, and when they made a decision of this kind, it is generally difficult to fault them. (1968: 162)

If Róna-Tas is correct to find the origin of *ᳵ* in the Khotanese *g*, and Khotanese *g* already had both these functions (1985: 259-260), the Tibetans may have simply borrowed the same symbol for two phonemes. However, this theory about the graphic origin of *ᳵ* has not been demonstrated, and in the absence of other evidence Miller's argument is persuasive. By using the same character for both γ- and N- the redactors of the Tibetan script intended to represent a single phoneme. The letter *ᳵ* is not a diacritic, and is certainly not an 'all-purpose' diacritic used for 'economy of symbolization.'

## 8. THE PREHISTORY OF *v*

The letter *v* had the phonetic value [N] in the position *vC(y/r)V-*, the value [ɣ] in the positions *vo-*, *vu-*, and *vwa-*, and the value Ø (perhaps originally [ɣ]) in the position *-Vv*. Since these uses are in complementary distribution and are represented by the same symbol, in the absence of evidence to the contrary, they are best regarded as allophones of a single phoneme. This phoneme could have two imaginable origins. In the first possibility, due to independent sound changes the distribution of these three sounds became complementary, and were thus perceived to be allophones of the same phoneme at the time of the script's invention. A similar event took place in Eastern Kiranti where:

As a results of the merger of Tibeto-Burman *\*r-* and *\*y-* in initial position [...] word-initial *\*r-* disappeared, leaving Tibeto-Burman *\*l* and *\*r* in complementary distribution so that they were re-analysed as two allophones of a single liquid phoneme //l/. (van Driem 1990: 83)

The second possibility is that at one time the same sound was pronounced in all three environments, but later these environments conditioned three different allophonic realizations. Which of these two options is correct can only be shown by detailed comparison to closely related languages. Unfortunately, the most closely related languages such as Bumthang (Michailovsky and Mazaudon 1994; van Driem 1995), Tshangla (Hoshi 1987; Andvik 1999), Dakpa (Lu 1986; Sun et al. 1991), and Zhangzhung (Nagano and LaPolla 2001) are not currently well enough documented or researched to permit such inquiry. I will tentatively explore the possibility of the second option here.

At a very early stage *v* represented the single sound [ɣ] in any position, and subsequent sound changes led to the complementary distribution of [N], [ɣ], and [Ø]. The preservation of [ɣ-] as a simple

initial needs no explanation. The change of final [-γ] to [-Ø] has already been argued for. After that change, final -v was reinterpreted as a *mater lectionis* indicating the absence of a final consonant, at which point v had become a sort of diacritic, and was therefore chosen as the model for a new symbol used to mark vowel length in the transcription of Sanskrit. The only questionable sound change is γC- > NC-. It is possible for fricatives to become nasals. In Avestan intervocalic [h] gave rise to a velar nasal (i.e. *aha* > *aŋha*; cf. Beekes 1988: 19). In Thai the three low vowels /ɛ/, /a/, and /ɔ/ are “allophonically nasalised [...] after syllable-initial /h/ and /ʔ/” (Matisoff 1975: 266). In Hayu initial [h] becomes the nasal homorganic to the final oral stop in the preceding syllable (Michailovsky 1975: 293). Voiced fricatives themselves can become nasalized (Ladefoged and Maddieson 1996: 132); a sound change such as γC- > ŋC- > NC- is thus not unimaginable. One piece of evidence argues that vC was at one point not pronounced [NC]. In a number of Tibetan verbs with lateral initial roots, the present stem begins with *ld-* (*ldug* [present], *blugs* [past], *blug* [future], *lhugs* [imperative] ‘to pour’; *ldud*, *blud*, *blud*, *lhud* ‘to offer, pour’; *ldog*, *logs*, *log*, — ‘to reverse’). Since the normal present prefix is v-, there is good ground to internally reconstruct *ld* < \*v*l*. However prenasalized laterals [Nl] are so far unattested in the world’s languages (Ladefoged and Maddieson 1996: 119). Most likely the relevant sound change was \*γ*l* > \*d*l* > *ld* and only later did the more general sound change γC > NC occur. I hope that better descriptions of Tibetan’s endangered relatives will one day allow these questions to be answered definitively.



## APPENDIX

Examples of *-v* as a final in the *Old Tibetan Annals*

PT1288.5. *Va.zha.dang: Rgya.lav* || on Vazha and China

PT1288.7. - - - - *nav/ btsan.po: gcen. srong.rtsan:dang/* in... the emperor the older brother Srongrtsan and

PT1288.12 [643]. *btsan.po: Khri.srong.rtsan.gyi: ring.lav/ Lig:snya:shur. brlag.ste:* in the time of the emperor Khri-srong-rtsan, Lig-snya-shur lost...

PT1288.14 [649]. *de.nas: lo.drug.nav/ btsan.po: Khri.srong.rtsan: dgung.du. gshegso/* after that in six years, the emperor Khri-srong-rtsan went to heaven.

PT1288.16 [650]. */:/ khyi.vi.lo.la. bab.ste/ bstan.po: myes: Khri.srong.rtsan.gyi. spur: Phying.bavi. ring.khang:nav. ring.mkhyud.ching: || bzhugste/* The dog year arriving, the corpse of emperor the grandfather, Khri-srong-rtsan was corpse-concealed in the corpse-house of Phying-ba

PT1288.20 [652]. *blon.che. Stong.rtsan.gyi: Glo:bo:dang. Rtsang.rhyav. || bkug:par: lo:gcig/* The prime minister Stong-rtsan subjugated Glo-bo and Rtsang-rhyav.

PT1288.22 [653]. *glang.gi. lo.la: bab.stev/ btsan.po.Nyen.kar.na. bzhugs.shing/* The year of the ox arriving, the emperor stayed at Nyen-kar.

PT1288.26 [654]. *stagi.lo.la. bab.ste/ btsan.pho. Mer:khe.nav .bzhugs.shing/* The year of the tiger arriving, the emperor stayed at Mer-khe.

PT1288.26 [654]. *blon.che: Stong.rtsan.gyis/ Mong.pu: Sral: Vdzong.duv: || bsduste/* The prime Minster Stong-rtsan convened [the council]. at Mong-pu Sral Vdzong.

PT1288.28 [655]. *yos.buvi. lo.la. bab.stev/ btsan.po. Mer.khe.na. bzhugs.shing/* the year of the hare arriving, the emperor stayed in Mer-khe.

PT1288.30 [656]. *blon.che: Stong.rtsan.gyis/ Gtsam.gyi. Yul.mar.duv.sha || lings: chen:pho. btab:phar: lo.gchīg/* The prime minister Stong-rtsan levied a great meat tax at Yul-mar (the low land) in Gtsam. So one year.

PT1288.35 [659]. *lugi. lo.lav. bab.ste/ btsan.po. Sprags.gyi. Sha.ra.na: bzhugs.shing/* the year of the sheep arriving, the emperor stayed in Sha-ra in Sprags

PT1288.50 [670]. *rtavi. lo.lav/ btsan.po: Vo.dang.na. bzhugs.shing/* The year of the horse, the emperor stayed in Vo-dang.

IO750.5 [673]. *bya.gagi. lo.lav :btsan.po: dbyar.stod: Pho.dam:mdo.na. bzhugs.shing/* The year of the bird arriving. In the early summer the emperor stayed at Pho-dam-mdo.

IO750.29 [681]. *vdun || mav. Rgyas:gyi. Lung.rīngs.sdu: bsdus:par: lo.gchīg/* The council was convened at Lung-ring in Rgyas.

IO750.30 [682]. *blon. chen.pho: Btsan.snyas/ vdun.ma: Sgyog.ram:duv: || bsduste/* Prime minister Bstan-snya convened the council at Sgyog-ram.

IO750.37 [684]. *dgun.vdun. Shangs:kyi. Rab.kha.tshal.duv || vdus.nas/* when the winter council convened at Rab-kha-tshal in Shangs.

IO750.39 [685]. *blon.chen.po: Btsan.snya:dang/ Mang.nyen.stag. || tsab:gyiṣ/ dmev: byung/ Shang:gyi. Sum.chu.bor/ blon. chen.pho. Btsan.snya:gum.* Both prime minister Btsan-snya and

[Mgar]. Mang-nyen Stag-tsab, internecine strife arose. Prime minister Btsan-snya died at the Sum river in Shang.

IO750.99 [705]. *Ldeg.ren.pav:* || *Mnon:snang. grags:dang/ Khe.rgad. Mdo.snang. las:stsogs:ba: log.ste: Bon.mo:na.la. tser: Ldeg.ren.pa .log.|| pa.rnams: bkum/* Ldeg-ren-pav, Mnon-snang-grags, Khe-rgad Mdos-nang and others revolted, and at Bon-mo Na-la-tse, Ldeg-ren-pa and the insurgents were killed.

IO750.121 [709]. *pyi. Lhas.gang:tsal:nav:* || *bzhugs/* The grandmother stayed at Lhas.gang.tsal.

IO750.144 [714]. *dgun. btsan.po: Nyen.kar:nav:* || *bzhugs/* In the winter the emperor stayed at Nyen.kar.

IO750.189 [726]. *mngan.mched. brgyad.las: bzhir.bcos.pavi: zlug:gyi. ring.lugs:* || *bkyev/* The decree publishing the reduction of great governors from eight to four was proclaimed.

IO750.193 [727]. *dgun. btsan.pho: pho.brang. Jor.gong.sna.nav.* || *bzhugste/* In the winter, he emperor's court stayed in Jor-gong-sna

IO750.240 [742]. *btsan.po: Srong.lde.brtsan: Brag.mar:duv.* || *bltam/ yum: Mang.mo.rje. nongs: phar:lo.gchig/* The emperor Srong-lde-brtsan was born in Brag-mar the mother Mang-mo-rje died.

## REFERENCES

- ANDVIK, Erik. 1999. *Tshangla Grammar*. Eugene: University of Oregon dissertation.
- BEEKES, Robert. 1988. *A Grammar of Gatha-Avestan*. Leiden: E. J. Brill.
- BENEDICT, Paul K. 1972. *Sino-Tibetan: A Conspectus*. Cambridge: Cambridge University Press.
- BEYER, Stephen. 1992. *The Classical Tibetan Language*. Albany: State University of New York Press; reprinted Delhi, Sri Satguru Publications, 1993.
- BIELMEIER, Roland. 1985. *Das Märchen von Prinzen Čobzai* (Beiträge zur tibetischen Erzählforschung 6). Sankt Augustin: VGH Wissenschaftsverlag.
- BLO BZANG TSHUL KHRIMS RGYA MTSO བློ་བཟང་རྩལ་ཁྲིམས་རྒྱ་མཚོ་. 1891. བོད་ཀྱི་བདུན་སྟོན་པ་སུམ་ཅུ་པ་དང་རྟགས་ཀྱི་འཕུག་པའི་མཆན་འགྲེལ་མདོར་བསྟུས་ཏེ་བརྗོད་པ་དེ་  
མཆར་འཕུལ་གྱི་ལྟེ་མིག / *Bod kyi brda sprod pa sum cu pa dang rtags kyi  
vjug pavi mchan vgrel mdor bsdus te brjod pa ngo mtshar  
vphrul gyi lde mig*. [Tibetan grammar: collected notes on the  
Sum cu pa and Rtags kyi vjug pa, the key which is a magical  
introduction to speech.] Beijing: མི་རིགས་དཔེ་སྟླན་ཁང་ Mi rigs dpe  
skrun khang, 1957.
- COBLIN, Weldon South. 2002. "On certain functions of 'a-chung  
in early Tibetan transcriptional texts." *Linguistics of the Tibeto-  
Burman Area* 25.2: 169-185.
- DENWOOD, Philip. 1999. *Tibetan*. London Oriental and African  
Language Library 3. Amsterdam: John Benjamins Publishing  
Company.
- DRAGUNOV, Aleksandr A. Драгунов, Александр А. 1939.  
"Особенности фонологической системы древнетибетского  
языка / Osobennosti fonologičeskoi sistemy drevnetibetskogo

- jazyka.” [Peculiarities of the Old Tibetan Phonological System.] *Записки института востоковедения Акад. Наук СССР / Zapiski Instituta vostokovedeniia Akad. Nauk SSR* 7: 284-295.
- DRIEM, George van. 1990. “The fall and rise of the phoneme /r/ in Eastern Kiranti: sound change in Tibeto-Burman.” *Bulletin of the School of Oriental and African Studies* 53.1: 83-86.
- \_\_\_\_\_. 1995. *Een Eerste Grammaticale Verkenning van het Bumthang, een Taal van Midden-Bhutan*. Leiden: Onderzoekschool CNWS.
- FRISK, Hjalmar. 1955-72. *Griechisches Etymologisches Wörterbuch*. Heidelberg: C. Winter.
- HAKULINEN, Lauri. 1961. *The Structure and Development of the Finnish Language*. Trans. John Atkinson (Uralic and Altaic Series 3). Bloomington: Indiana University.
- HALLER, Felix. 2000. *Dialekt und Erzählungen von Shigatse* (Beiträge zur tibetischen Erzählforschung 13). Bonn: VGH Wissenschaftsverlag.
- HERRMANN, Silke. 1989. *Erzählungen und Dialekt von Dīnri* (Beiträge zur tibetischen Erzählforschung 9). Bonn: VGH Wissenschaftsverlag.
- HOSHI, Michiyo. 1987. *A Sharchok Vocabulary: A Language Spoken in Eastern Bhutan* (Integral Study on the Ecology, Languages and Cultures of Tibet and Himalayas 8). Tokyo: The Research Institute for Languages and Cultures of Asia and Africa.
- JÄSCHKE, Heinrich August. 1881. *Tibetan English Dictionary*. London: Unger Brothers; reprinted Delhi: Motilal Banarsidass, 1992.
- JOHANSON, Lars. 1998. “The history of Turkic.” *The Turkic Languages*. Eds. Lars Johanson and Éva Ágnes Cstaó, 81-125. London: Routledge.

- KRETSCHMAR, Monika. 1986. *Erzählungen und Dialekt der Drokpas aus Südwest-Tibet* (Beiträge zur tibetischen Erzählforschung 8). Sankt Augustin: VGH Wissenschaftsverlag.
- LADEFOGED, Peter and Ian MADDIESON. 1996. *The Sounds of the World's Languages*. Oxford: Blackwell.
- LAPOLLA, Randy J. with Chenglong HUANG. 2003. *A Grammar of Qiang: With Annotated Texts and Glossary* (Mouton Grammar Library 31). Berlin: Mouton de Gruyter.
- LAUFER, Berthold. 1914. "Bird divination among the Tibetans (notes on document Pelliot no. 3530, with a study of Tibetan Phonology of the ninth century)." *T'oung Pao* 15: 1-110; reprinted in *Sino-Tibetan Studies*. Vol II. Ed. Hartmut Walravens, 354-463. New Delhi: Rakesh Goel, 1987.
- LI Fang-kuei and Weldon South COBLIN. 1987. *A Study of the Old Tibetan Inscriptions* (Special publications 91). Taipei: Academia Sinica.
- LIGETI, Louis. 1961. "Trois notes sur l'écriture 'phags-pa." *Acta Orientalia Academiae Scientiarum Hungaricae* 13: 202-237.
- LU Shaozun 陆绍尊. 1986. 错那门巴语简志 / *Cuona menbayu jianzhi* [Cuona Menba language geographical sketch]. Beijing: 民族出版社 Minzu chubanshe.
- MADDIESON, Ian. 1984. *Patterns of Sounds*. Cambridge: Cambridge University Press.
- MATISOFF, James A. 1975. "Rhinoglottophilia: the mysterious connection between nasality and glottality" *Nasálfest: Papers from a Symposium on Nasals and Nasalization*. Eds. Charles A. Ferguson et al., 265-287. Stanford: Language Universals Project, Department of Linguistics, Stanford University.
- MICHAILOVSKY, Boyd. 1975. "A case of rhinoglottophilia in Hayu" *Linguistics of the Tibeto-Burman Area* 2.2: 29.
- MICHAILOVSKY, Boyd and Martine MAZAUDON. 1994. "Preliminary notes on the languages of the Bumthang Group (Bhutan)." *Tibetan Studies: Proceedings of the 6th Seminar of*

*the International Association for Tibetan Studies*. Ed. Per Kværne, Vol 2, 545-557. Oslo: The Institute of Comparative Research in Human Culture.

MILLER, Roy Andrew. 1955a. "Studies in spoken Tibetan I: phonemics." *Journal of the American Oriental Society* 75: 46-51.

\_\_\_\_\_. 1955b. Review of チベット語古典文法学 / *Chibettogo koten bunpōgaku* [Classical Tibetan Language Grammatical Studies] (昭和 Shōwa 29). by Inaba Shōju 稲葉正就. Kyoto: 法藏館 Hōzōkan, 1954. *Language* 31. 481-482

\_\_\_\_\_. 1955c. "Notes on the Lhasa dialect of the early ninth century." *Oriens* 8: 284-291.

\_\_\_\_\_. 1962. "The Si-tu Mahapandita on Tibetan Phonology." 湯浅八郎博士古稀記念論文集 / *Yusasa Hachirō hakushi koki kinen ronbunshu* / *To Dr. Hachiro Yusasa; A collection of Papers commemorating his Seventieth Anniversary*. 921-933. Tokyo: 国際基督教大学 / Kokusai Kirisutokyō Daigaku.

\_\_\_\_\_. 1966. "Early evidence for vowel harmony in Tibetan." *Language* 42: 252-277.

\_\_\_\_\_. 1968. Review of *Tibeto-Mongolica: The Loanwords of Mongour and the Development of the Archaic Tibetan Dialects* (Indo-Iranian Monographs 7), by András Róna-Tas. The Hague: Mouton, 1966. *Language* 44.1: 147-168.

\_\_\_\_\_. 1993. *Prologomena to the First Two Tibetan Grammatical Treatises* (Wiener Studien zur Tibetologie und Buddhismuskunde 30). Vienna: Arbeitskreis für Tibetische und Buddhistische Studien Universität Wien.

\_\_\_\_\_. 1994. "A new grammar of written Tibetan." Review of *The Classical Tibetan Language*, by Stephen Beyer. Albany: State University of New York Press, 1992. *Journal of the American Oriental Society* 114.1. 67-76.

NAGANO, Yasuhiko and Randy J. LAPOLLA, eds. 2001. *New research on Zhangzhung and related Himalayan languages*

- (Senri ethnological reports 19, Bon studies 3). Osaka: National Museum of Ethnology.
- ROERICH, George de. 1958. *Le Parler de l'Amdo: Étude d'un Dialecte Archaïque du Tibet* (Serie Orientale Roma 18). Rome: Instituto Italiano per il Medio ed Estremo Oriente.
- RÓNA-TAS, András. 1962. Review of *Тибетский Язык / Tibetskij jazyk* [Tibetan language]. (Языки зарубежного Востока и Африки / jazyki zarubežnogo Vostoka i Afriki.) by Ю. Н. Рерих / Ju. N. Rerich, Moscow: Издательство Восточной Литературы / Izdatel'stvo vostočnoj Literatury, 1961. *Acta Orientalia Scientificarum Hungaricae* 14: 338-340.
- \_\_\_\_\_. 1966. *Tibeto-Mongolica: The Loanwords of Mongour and the Development of the Archaic Tibetan Dialects* (Indo-Iranian Monographs 7). The Hague: Mouton.
- \_\_\_\_\_. 1985. *Wiener Vorlesungen zur Sprach- und Kulturgeschichte Tibets* (Wiener Studien zur Tibetologie und Buddhismuskunde Heft 13). Vienna: Arbeitskreis für Tibetische und Buddhistische Studien Universität Wien.
- \_\_\_\_\_. 1992. "Reconstructing Old Tibetan." *Tibetan Studies: Proceedings of the 5th Seminar of the International Association for Tibetan Studies, Narita 1989*. Eds. Ihara Shoren and Ysamaguchi Zuiho. Vol 2. 697-704. Narita: Naritasan Shinshoji.
- SACHNINE, Michka. 1982. *Le Lamé (Nord-Cameroun)*. Paris: Société d'Études linguistiques et anthropologiques de France, Agence de coopération culturelle et technique.
- SCHERRER-SCHAUB, Cristina Anna. 2002. "Enacting words: A diplomatic analysis of the imperial decrees (bkas bcad) and their application in the Sgra byor bam po gnyis pa tradition." *Journal of the International Association of Buddhist Studies* 25: 263-340.
- SHRYOCK, Aaron Michael. 1995. *Investigating Laryngeal Contrasts: An Acoustic Study of the Consonants of Musey*



- (UCLA Working Papers in Phonetics 89). Los Angeles: Phonetics Laboratory, Department of Linguistics, UCLA.
- SIKLÓS, Bulcsu. 1986. "The Tibetan verb: tense and nonsense." *Bulletin of the School of Oriental and African Studies* 49.2: 304-320.
- SIMMONS, Richard V. 1999. *Chinese Dialect Classification: A Comparative Approach to Harngjou, Old Jintarn, and Common Northern Wu* (Current Issues in Linguistic Theory 188). Amsterdam and Philadelphia: John Benjamins Publishing Co.
- SPRIGG, Richard Keith. 1968. "The role of 'R' in the development of the modern spoken Tibetan dialects." *Acta Orientalia Academiae Scientiarum Hungaricae* 21.3: 301-311.
- \_\_\_\_\_. 1987. "'Rhinoglottophilia' revisited: observations on 'the mysterious connection between nasality and glottality.'" *Linguistics of the Tibeto-Burman Area* 10.1: 44-62.
- SUN Hong Kai 孙宏开 et al. 1991. 藏缅语语音和词汇 / *Zang Mian yu yuyin he cihui* [Glossary and pronunciation of Tibeto-Burman languages]. Beijing: 中国社会科学出版社 Zhongguo shehui kexue chubanshe.
- SUN, Jackson T. S. 1986. *Aspects of the Phonology of Amdo Tibetan: Ndzorge Sáeme Xyra Dialect*. (Monumenta Serindica 16.) Tokyo: Institute for Languages and Cultures of Asia and Africa.
- \_\_\_\_\_. 2003. "Phonological profile of Zhongu: a new Tibetan dialect of Northern Sichuan." *Language & Linguistics* 4.4: 769-836.
- TAKEUCHI, Tsuguhito. 1995. *Old Tibetan Contracts from Central Asia*. Tokyo: Daizo Shuppan.
- TAUBE, Manfred. 1978. "Zu einige Texten der tibetischen brdagsar-rñiñ-Literatur." *Asienwissenschaftliche Beiträge: Johannes Schubert in memoriam*. Eds. Eberhardt Richter and Manfred Taube. (Veröffentlichungen des Museums für Völkerkunde zu Leipzig, 32.), 169-201. Berlin: Akademie Verlag.

- TOURNADRE, Nicolas and Sangda DORJE. 2003. *Manuel de Tibétain Standard: Langue et Civilization*. Paris: Mondes et Langue, L'asiathèque.
- ULVING, Tor 1972. "Tibetan vowel harmony revisited." *T'oung Pao* 58: 203-217.
- URAY, Géza. 1955. "On the Tibetan letters *ba* and *wa*: contribution to the origin and history of the Tibetan alphabet." *Acta Orientalia Academiae Scientiarum Hungaricae* 5.1: 101-121.
- \_\_\_\_\_. 1975. "L'annalistique et la pratique bureaucratique au Tibet ancien." *Journal Asiatique* 263: 156-170.
- WANG Yao 王尧 Dbang rgyal དབང་རྒྱལ་ and BSOD NAMS SKYID བསོད་ནམས་སྒྱིད་ Chen Jian 陈践. 1988. 敦煌吐蕃文书论文集 / *Dunhuang Tufan wenshu lunwenji* [A collection of Dunhuang and Turfan texts] / ཏུན་ཏྲང་ནམ་ཐོན་པའི་བོད་ཀྱི་ལོ་རྒྱུས་ཡིག་ཆ་ / *Tun hong nas thon pa'i bod kyi lo rgyus yig cha* [Tibetan historical documents from Dunhuang]. Chengdu: 四川民族出版社 / Sichuan minzu chubanshe / མི་རིགས་དཔེ་སྐྱུར་ཁང་ / Mi rigs dpe skrun khang.
- ZHANG Lian Sheng. 1987. *The Consonant System of Middle-old Tibetan and the Tonogenesis of Tibetan*. University of California, Berkeley, PhD dissertation. 1987.
- ZHANG Jichuan 张继川. 1996. "古代藏语方音差别与正字法 / Gudai Zangyu fangyin chabie yu zhengzifa" [Old Tibetan dialectal differences and Tibetan orthography]. 民族語文 *Minzu Yuwen* 3: 22-24.