<table>
<thead>
<tr>
<th>著者 (英語)</th>
<th>未知</th>
</tr>
</thead>
<tbody>
<tr>
<td>場所 (英語)</td>
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A general review of the Zhangzhung studies

Yoshio Nishi, Yasuhiko Nagano

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A general review of the Zhangzhung studies

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Osaka

1. Introduction

Zhangzhung is a Tibeto-Burman (TB, hereafter) language that was spoken in Western Tibet before the establishment of the Tibetan Empire (the first unified kingdom in Tibet). This language was gradually replaced by Tibetan as the latter became dominant, and finally died out completely around the 11th century. While Zhangzhung is often said to have been spoken by believers of the Bon religion, this is not strictly correct. In fact, Zhangzhung was the language of the dMtz tribe in lower Zhangzhung, and this tribe believed in Bon. This is how the Bon religion came to be associated with Zhangzhung.

The kingdom of Zhangzhung existed in Western Tibet and exerted strong political influence even before the establishment of the Tibetan Empire. The existence of the kingdom of Zhangzhung has been known for many years because it played an important role in the establishment of the Tibetan Empire. However, little mention has been made of the language spoken in Zhangzhung.

There are several reasons for this. First, only few Zhangzhung texts are extant. Second, no corresponding bilingual texts have been identified. Third, the Zhangzhung language died out completely, making it impossible to identify which modern Tibeto-Burman languages can be directly compared with Zhangzhung.

Since the beginning of the 20th century, research on the Tibetan texts unearthed in Dunhuang has made considerable progress, and it has been found that some of these texts are written in unknown languages using Tibetan letters. F. W. Thomas assumed these languages were Zhangzhung and Nam. He analyzed the forms of the fragments of words appearing in these texts and framed the following hypothesis:

(1) The two texts which were available at the time of the analysis and which were supposedly written in Zhangzhung deal with issues relating to herbal medicine. (A third text was analyzed later.)

(2) The lexical forms excluding those of the Written Tibetan and Sanskrit loanwords indicate a genealogical relationship between Zhangzhung and the 'pronominalized languages' (S. Konow's terminology in his Linguistic Survey of India [LSI]) of Western Tibet.
2. With the advances in Sino-Tibetan and Tibeto-Burman linguistics that followed, many more texts suitable for comparative study were discovered. For example, using the same texts used by Thomas, R. Shafer described Zhangzhung as Old Almora (1957: 195 ⇒ Table 1), while Benedict classified Zhangzhung under Tibeto-Kannaur (1972: 7 ⇒ Table 2).

However, when Tatsuo Nishida analyzed the same texts he concluded that Zhangzhung shares some linguistic characteristics with the Tibetan sub-group. He wrote, “It is not at all impossible to construct a provisional grammar by analyzing the texts and examining the units, words, and affixes that repeatedly appear in these texts, even if the meaning or function of the individual units remains unknown... To give an easily understandable example, I will discuss some yet-to-be clarified Zhangzhung words I have been studying for years.” He then examines some words that are considered to have Tibetan correspondence, such as *dgun-kha* (Written Tibetan) and *gun-kha* (Zhangzhung) meaning winter; and *ston-thog* (Written Tibetan) and *tog-kha* (Zhangzhung) meaning harvest time. He also argues that particles appearing at the end of sentences such as *nwe'o*, *-khyiro*, and *-shido* have Tibetan correspondence, and this usage is characteristic of Tibetan (Nishida 1982:21-24). Nishida also tells us, “Nevertheless, we have yet to clear many hurdles before we are able to apply certain grammatical rules to the general relationship between Written Tibetan and Zhangzhung, because it is difficult to identify the Tibetan correspondence of many Zhangzhung words. Yet, this does not necessarily mean that all the Zhangzhung words that have Tibetan correspondence are loanwords (Nishida 1982: 24).” Indeed, the examples shown above indicate a relationship between Tibetan and Zhangzhung, but it can also be argued that all of these words are loanwords. Nishida (1987:112) classifies Zhangzhung in the Tibetan language group, positioning it closer to Written Tibetan than to the Gyarong and Himalayan pronominalized languages (⇒ Table 3).

Our predecessors’ achievements provide important clues to help us identify the unknown languages used in the Dunhuang texts. However, we must not accept all these theories without question, because there is no proof that the three Dunhuang texts are written in Zhangzhung. We have only Thomas claim and there are no firm grounds for determining that these languages are Zhangzhung. Thomas wrote, “The language is clearly Tibeto-Burman, and there are many indications of close relation to the Lepcha, even if it is not an old form of that language” (1926: 506), but did not show any real evidence for this inference.

The whole picture of Thomas’ hypothesis remains obscure because he died before completing his study. However, Professor Tsuguhito Takeuchi who is involved in our project discovered Thomas’ notes containing research results on the Zhangzhung language in the British Library. We plan to edit and publish these notes in hopes that they will add to our understanding of Thomas’ study.
Table 1  Shafer’s classification of the TB languages in the Himalayas (Shafer 1966; reinterpret ed by Nishi 1990) [N.B.: The name of language is shown in a brace while its dialects are in a square bracket.]

Bodish Division

<table>
<thead>
<tr>
<th>Bodish Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gurung Branch (Tamang group) {Gurung, Tamang, Thakali}</td>
</tr>
</tbody>
</table>

West Himalayish Section

<table>
<thead>
<tr>
<th>NW Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>{Bunan}</td>
</tr>
<tr>
<td>{Thebor} [Sumchu, Zhangram, Kanam, Lippa]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NNW Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>{Kannaur} [Upper, Lower, Chhitkal, Tikpa, Kanash]</td>
</tr>
<tr>
<td>{Manchad} [Chamba Lahaul, Ranglo]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Almora Branch</th>
</tr>
</thead>
<tbody>
<tr>
<td>{Rangkas, Darmiya}</td>
</tr>
<tr>
<td>{Chaudans, Byans}</td>
</tr>
</tbody>
</table>

Janggali Branch

Eastern Branch {Thami, Bhramu}

West Central Section {Vayu, Chepang, Magar}

East Himalayish Section

Western Branch

| Bahing Unit {Bahing, Sunwar} |
| Thulung Unit {Thulung} |
| Chourase Unit {Chourase} |
| Dumi Unit {Dumi, Khaling, Rai} |

Eastern Branch

| Khambu Unit {Khambu, Kulung, Nachhering} |
| Bontawa Unit {Rodong, Waling [Rungchhenbung, Kiranti, Dungmali], Lambichhong, Lohorong, Limbu [Limbu, Yakha]} |

Newarish Section {Newari, Pahri}

Dhimalish Section {Dhimal, Toto}
Table 2  Benedict's classification of the TB languages in the Himalayas (Benedict 1972)
Generally speaking, most of the lexical items that have Written Tibetan correspondence are Tibeto-Burman roots (= widely spread shapes among various sub-groups of Tibeto-Burman), and are not characteristic of Tibetan alone. However, not all lexical forms that have West Himalayan correspondence are Tibeto-Burman roots. Therefore, it is logical to examine Zhangzhung in light of its relationship to the West Himalayan languages.

3. In previous research, too much importance was placed on the association of lexical forms considered typical of Zhangzhung with any sub-groups of Tibeto-Burman. Of course, examining the genetic relationship is necessary, but we must first try to find what is written in the three Dunhuang texts. Lacking any bilingual texts, this work presents serious difficulties, but steady progress has been made with the help of mathematical statistics. While we have not yet made any dramatic
discoveries, examining the frequency and distribution of words in their various forms and comparing them with the syntax of the Tibeto-Burman languages has led us to believe that Zhangzhung is not characterized by the pronominalization, in spite of its possible genetic relationship with the Western Himalayan languages. However, we cannot be certain that this language has no pronominalization, because if these texts actually discuss issues relating to medicine as Thomas claimed, then first and second person pronouns are unlikely to appear. The results of this research will be shown in Takeuchi, Ueda and Nagano (pp. 45-96).

4. Another important object of research is the Tibetan-Zhangzhung Dictionary published in 1965 in Delhi. This dictionary is a compilation of Zhangzhung words and usage collected by Nyima Dakpa from Zhangzhung texts preserved in Bon monasteries, and is edited by Tenzin Namdak, presently chief priest of the Tritan Norbutse Monastery in Kathmandu. Most of the examples shown in this dictionary were taken from gZi-brjid and mDzod-phug, and are believed to relate to the tradition of 'organized' Bon in its early days.

Erik Haarh who analyzed this Dictionary in detail and compared the language with Tibeto-Burman languages, concluded that:

The above few examples of word-correspondence, which are characteristic for the whole vocabulary of the dictionary, together with the evidence of the particles in the above table, indicate that the Zhangzhung language belongs to the West Tibetan languages, most probably among the Complex Pronominalized dialects of the Western group, following the terminology of the Linguistic Survey of India. This confirms the allegations of F. W. Thomas and R. Shafer with regard to the manuscript from Turkestan mentioned above (Haarh 1968: 26).

R. A. Stein (1971) and Yamaguchi (1988) focused on the vocabulary used in the teachings of Bon. They concluded that the Zhangzhung language was created by Bon believers, since most of the words are loaned from Tibetan, formed by modifying Tibetan words through metathesis, backward reading and/or back formation, or by combining Sanskrit and Written Tibetan words. Yamaguchi even disputed the authenticity of the texts themselves, saying, “Although the Zhangzhung language is known to us as the language of the dMu tribe, the origin and authenticity of this language is still open to question.” (Yamaguchi 1988: 5). However, their arguments focused solely on the religious terms, and they showed little interest in examining the characteristics of the language as a whole. Bon believers tried to arrange their religious texts much later than Buddhists, and it seems plausible that they coined words based on Sanskrit and Tibetan to explain their beliefs. Moreover, word formation in various types is a widely observed practice, as is evidenced by many translations of the Buddhist texts. If Stein and Yamaguchi had directed their attention at the basic vocabulary as well, they would certainly have reached different
conclusions. In fact, Zhangzhung does make a kind of link language connecting the Himalayan languages, and there is little doubt as to the authenticity of most of the examples contained in the dictionary.

5. Next, we will examine the comparative linguistic studies of Haarh (1968) and Sharma (1988).

1. Haarh examined LSI’s materials, and compared suffixes, numerals from one to ten, and words which he thought were characteristic of the Himalayan languages such as ‘ear’, ‘iron’, ‘water’, ‘horse’ and ‘dog’ (see Table 4). However, LSI’s materials themselves were not reliable enough to be used for a comparison of suffixes. Moreover, his comparison chart contains few examples that strongly support his hypothesis. It could be inferred that, based on the comparison of ‘one’, ‘four’ and ‘seven’, the Zhangzhung language does not belong to the Tibetan subgroup but Haarh failed to show convincing evidence that this language is closely associated with the Himalayan languages. The Zhangzhung word hrang ‘horse’ has Written Tibetan correspondence, and even Jingpho and Burman, the languages of geographically remote areas, have words that seem to stem from the same origin. The words ting ‘water’ and ku-ra ‘dog’ are widely distributed and should be regarded as having Tibeto-Burman roots. Clearly, the word zangs ‘iron’ corresponds to the Written Tibetan word meaning ‘copper’, although there has been a shift in meaning. Most likely, this word is a loanword. From this, we can conclude that, among the words Haarh listed as examples, only ra-tse ‘ear’ positively demonstrates Zhangzhung’s genetic relationship with the Himalayan languages.

Yet, as Nishi (1989) claims, there are many other important words than those

<table>
<thead>
<tr>
<th>Table 4</th>
<th>Haarh’s comparison (Haarh 1968: 25-26)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classi</td>
<td>cal [19]</td>
</tr>
<tr>
<td>1</td>
<td>chi</td>
</tr>
<tr>
<td>2</td>
<td>nasi</td>
</tr>
<tr>
<td>3</td>
<td>swom</td>
</tr>
<tr>
<td>4</td>
<td>pi</td>
</tr>
<tr>
<td>5</td>
<td>nga</td>
</tr>
<tr>
<td>6</td>
<td>khu</td>
</tr>
<tr>
<td>7</td>
<td>hnas</td>
</tr>
<tr>
<td>8</td>
<td>cya</td>
</tr>
<tr>
<td>9</td>
<td>gu</td>
</tr>
<tr>
<td>10</td>
<td>ji</td>
</tr>
</tbody>
</table>
Y. NISHI and Y. NAGANO

<table>
<thead>
<tr>
<th></th>
<th>EAR</th>
<th>IRON</th>
<th>WATER</th>
<th>HORSE</th>
<th>DOG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zhang-zhung</td>
<td>ra-tse</td>
<td>zangs</td>
<td>ting</td>
<td>hrang</td>
<td>ku-ra</td>
</tr>
<tr>
<td>Kanawri</td>
<td>rhe-tra</td>
<td>ti</td>
<td>rang</td>
<td>khui</td>
<td></td>
</tr>
<tr>
<td>Manchati</td>
<td>re-tra</td>
<td>ti</td>
<td>rang</td>
<td>khui</td>
<td></td>
</tr>
<tr>
<td>Chamba Lahuli</td>
<td>ra-tsi</td>
<td>so-ti</td>
<td>srangs</td>
<td>khyu</td>
<td></td>
</tr>
<tr>
<td>Tinan</td>
<td>re-tsi</td>
<td>so-ti</td>
<td>srangs</td>
<td>khyvi</td>
<td></td>
</tr>
<tr>
<td>Bunan</td>
<td>rach</td>
<td>chyang</td>
<td>ti</td>
<td>rang</td>
<td></td>
</tr>
<tr>
<td>Rangkas</td>
<td>rach</td>
<td>njang</td>
<td>ti</td>
<td>rang</td>
<td></td>
</tr>
<tr>
<td>Darmiya</td>
<td>rach</td>
<td>njang</td>
<td>ti</td>
<td>rang</td>
<td></td>
</tr>
<tr>
<td>Chaudangsi</td>
<td>rach</td>
<td>najang</td>
<td>ti</td>
<td>rang</td>
<td></td>
</tr>
<tr>
<td>Byangsi</td>
<td>rach</td>
<td>najag</td>
<td>ti</td>
<td>rang</td>
<td></td>
</tr>
</tbody>
</table>

discussed by Haarh. For example, the Zhangzhung words *du* ‘cloud’, *pad* ‘skin’, *mang* ‘red’, *ting* ‘blue’, and *mu* ‘snow’ all display characteristics of the Himalayan languages. Zhangzhung’s *ma-zi* ‘gold’ and *igyum* ‘road’ correspond to *mar* and *gyam*², respectively, of Proto-Tamang. Therefore, the idea that Zhangzhung could be a link language combining the Tibetan and Himalayan languages and, even more importantly, that Zhangzhung provides a link connecting all Himalayan languages is a plausible one. For the discussion concerning each examples above, see Nishi 1991: 75–79 and 123.

2. Sharma is one of the first Indian linguists to set out to research the Tibeto-Burman languages, and the only known scholar in India to have studied the Zhangzhung language. Sharma studied the languages of the Northwestern Himalayish branch as described by Shafer. His achievements deserve high praise because his studies drastically changed the conventional linguistic common sense including that of the grammar of language branches. However, his descriptive account of tones is unreliable.

The uniqueness of Sharma’s research lies in his assumption of the existence of link languages that interconnect the Northwestern, North-northwestern, and Almora branches. Specifically, he argues that the Rangpa, Kanash and Zhangzhung languages serve as such link languages. As shown in the table of word correspondence (Appendix) of the Himalayish languages, those ranging from Bunan to Byans in Shafer’s subgrouping maintain a certain continuity, and there must be some link language that interconnects these languages. Here, Sharma focused on Zhangzhung, indicating that some Kannaur and Chhitkal words are the loans from Zhangzhung. He compared those words, but, regrettably, this comparison is, for the most part, unsuitable. Nonetheless, I will examine his line of reasoning in more detail because this is helpful in highlighting the characteristics of Zhangzhung. However, it should be noted that while most of the Zhangzhung words Sharma discussed were taken from Haarh’s research materials, the sources of other words with different forms are unknown. The following points are also true of Sharma’s
A general review of the Zhangzhung studies

comparisons:

(1) Three words are taken as vocabulary items characteristic of Zhangzhung.

<table>
<thead>
<tr>
<th>meaning</th>
<th>Zhanzhung</th>
<th>Kannaur</th>
</tr>
</thead>
<tbody>
<tr>
<td>skin/fur</td>
<td>bad</td>
<td>bod</td>
</tr>
<tr>
<td>stain</td>
<td>raŋ</td>
<td>raŋ</td>
</tr>
<tr>
<td>ear</td>
<td>ra-tse</td>
<td>ṭotš (Chhitkal)</td>
</tr>
</tbody>
</table>

The words meaning ‘skin’ and ‘ear’ are taken from Haarh, but the source of the word meaning ‘stain’ is unknown.

(2) All the following sample vocabulary items are likely to have originated from the Proto-Tibeto-Burman, and should not be considered Zhangzhung loanwords.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>two</td>
<td>ni</td>
<td>niš</td>
</tr>
<tr>
<td>six</td>
<td>ḏuk</td>
<td>ṭuk</td>
</tr>
<tr>
<td>seven</td>
<td>sniš</td>
<td>ściś</td>
</tr>
<tr>
<td>hundred</td>
<td>ra</td>
<td>ra</td>
</tr>
<tr>
<td>woman</td>
<td>tsa-med</td>
<td>tšimed</td>
</tr>
<tr>
<td>sun</td>
<td>्ñiri</td>
<td>्ñi (Chhitkal)</td>
</tr>
<tr>
<td>mouth</td>
<td>a:</td>
<td>a:</td>
</tr>
<tr>
<td>child</td>
<td>hri-tse</td>
<td>atše</td>
</tr>
</tbody>
</table>

(3) The following word is found in several languages in the subgroup, though it cannot be regarded as a Tibeto-Burman root.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>horse</td>
<td>hraŋ</td>
</tr>
<tr>
<td></td>
<td>raŋ</td>
</tr>
</tbody>
</table>

(4) The following words came from the same Tibetan origin.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>conjunctive</td>
<td>daŋ</td>
<td>daŋ</td>
</tr>
<tr>
<td>rib</td>
<td>hrib</td>
<td>rib</td>
</tr>
</tbody>
</table>

(5) The following words cannot be regarded as stemming from the same origin due to the differences in their rhymes.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>tiŋ</td>
<td>ti</td>
</tr>
<tr>
<td>mouth</td>
<td>khag</td>
<td>khanŋ</td>
</tr>
<tr>
<td>wind</td>
<td>li</td>
<td>lan</td>
</tr>
</tbody>
</table>

(6) The following words are unsuitable for comparison.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>nail</td>
<td>kil</td>
<td>kilanŋ</td>
</tr>
<tr>
<td>golden</td>
<td>(mar-ži)</td>
<td>zaŋ</td>
</tr>
<tr>
<td>road</td>
<td>gyum</td>
<td>am</td>
</tr>
<tr>
<td>elders</td>
<td>yose</td>
<td>ruza</td>
</tr>
<tr>
<td>trouble</td>
<td>dubaŋ</td>
<td>dukhanŋ</td>
</tr>
</tbody>
</table>
The above words cannot be considered as corresponding to each other by any means. By the way, the root of the word for ‘golden’ is not न्य but नर.

As mentioned above, Zhangzhung assumed two roles; linking the Tibetan and Himalayan languages and connecting all the Himalayan languages. Given the meticulousness of current descriptive linguistics, for the time being, the research will likely be carried out along the latter perspective. At any rate, it is important for us to understand more precisely the nature of Zhangzhung itself.

6. The former perspective above often emphasizes beautiful correspondeiences of cultural lexical stock between Zhangzhung and Written Tibetan. I believe that they are loans, and I cannot find any close relationship in other lexical categories of the two languages. Even if we are to examine Zhangzhung’s genetic relationship with Tibetan, we should first study the Gyarong language or the proto-Gyarong-Qiang for comparison, instead of directly going to the comparison of Zhangzhung with Written Tibetan. Gyarong, along with Kachin (Jinghpaw), links all the Tibeto-Burman sub-groups and it probably shares a proto-language with Qiang. Still, we cannot overlook the ultra-linguistic fact of the connection between Zhangzhung and Gyarong as mentioned below.

It is widely known that Gyarong has been a shelter of the Bon religion since ancient times and still serves as a major religious center. Historically, the kingdom of Zhangzhung (called 莽國 in the Chinese historical records) moved eastward to the Gyarong region and established 莽國 (see map). Gyim-shod (金川 in Chinese) which was the center of 莽國 (Gyarong), corresponds to the Sanskrit word suvamāgotra, ‘golden country’, specifying 莽國. gyim corresponds to the medieval and archaic Chinese word *kim (金) as shown by Baxter (1992: 768), and shod to a Tibetan word meaning ‘locality’. Further, Yamaguchi argues that the name of the sBrang clan who conquered the region of Gyarong can be compared to the Sanskrit word suvānā after removing the vowels. Indeed, there is a similar case where the Sanskrit word brāhma corresponds to the Tibetan word bram, so we cannot absolutely deny Yamaguchi’s claim. But, so far, there are few other parallel examples which would support Yamaguchi. While we need more time to decide whether suvānā is the original form of sBrang, or not, I think we can justifiably conclude from this historical background that there were certain linguistic connections between 莽國 (Zhangzhung) and 莽國 (Gyarong).

The following table shows the lexical items that Nishi pointed out as characteristic of the Himalayan languages.

<table>
<thead>
<tr>
<th></th>
<th>Zhangzhung</th>
<th>Gyarong</th>
</tr>
</thead>
<tbody>
<tr>
<td>barley</td>
<td>zad</td>
<td>ख्ज्ञ (二脭理)</td>
</tr>
<tr>
<td>ear</td>
<td>ra-tse</td>
<td>टो-र्ना</td>
</tr>
</tbody>
</table>
Special attention should be paid to the words for `gold' and `road', because the corresponding words in Zhangzhung, Gyarong, and the proto-Tamang could have evolved from the same origin. Although we cannot find any beautiful correspondence for these particular items above, a detailed comparison in the near future may possibly provide us with more positive clues.

7. This discussion has been all about the comparison of vocabulary, but textual analysis of texts is of equal importance. The literature which provided an important source for the Tibetan-Zhangzhung Dictionary, especially *mDzod-phug*, contains a wealth of Zhangzhung words and usage, and we must work harder to analyze that literature. Hoffmann (1967) was the first person to analyze these texts. More recently, Dr. Dan Martin has compiled an extensive collection of linguistic data on Zhangzhung.

To promote studies of the Zhangzhung language in the near future, we must devote ourselves to:

1. distinguishing clearly the historical taxonomy of Zhangzhung in the Dunhuang period and that of `organized' Bon,
2. analyzing the textual data of these two kinds of Zhangzhung,
3. collecting more descriptive data of the Himalayan languages that seem to have genetic relationship to Zhangzhung, and
4. promoting descriptive studies of the languages of the northwestern part of Sichuan Province.

<table>
<thead>
<tr>
<th>English</th>
<th>Tibetan</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>fat</td>
<td>tshas</td>
<td>t'o-čam</td>
</tr>
<tr>
<td>heart</td>
<td>she</td>
<td>t'o-šne</td>
</tr>
<tr>
<td>intestines</td>
<td>hri-tsum</td>
<td>nañ-ča</td>
</tr>
<tr>
<td>iron</td>
<td>zangs</td>
<td>šam</td>
</tr>
<tr>
<td>gold</td>
<td>mar</td>
<td>zañ (=copper)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ksər</td>
</tr>
<tr>
<td></td>
<td></td>
<td>smar (=yellow)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mar (=butter)</td>
</tr>
<tr>
<td>neck</td>
<td>khang</td>
<td>fəo (二岡理)</td>
</tr>
<tr>
<td>nose</td>
<td>lgyum-zhi</td>
<td>t'o-šnə</td>
</tr>
<tr>
<td>skin</td>
<td>pad</td>
<td>t'o-nji</td>
</tr>
<tr>
<td>blue</td>
<td>ting</td>
<td></td>
</tr>
<tr>
<td>cloud</td>
<td>du</td>
<td>zdem</td>
</tr>
<tr>
<td>red</td>
<td>mang</td>
<td></td>
</tr>
<tr>
<td>snow</td>
<td>mu</td>
<td>t'o-mu (=weather, sky, cloud)</td>
</tr>
<tr>
<td>road</td>
<td>lgyum</td>
<td>ča-la</td>
</tr>
</tbody>
</table>
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Appendix

Comparison of Himalayish languages, Proto-Tamang, AMD, Gyarong and ZZ

<table>
<thead>
<tr>
<th>(M)</th>
<th>Manchad</th>
<th>(Ti)</th>
<th>Tinan</th>
<th>(Ks)</th>
<th>Kanash</th>
<th>(Ku)</th>
<th>Kannaur</th>
</tr>
</thead>
<tbody>
<tr>
<td>(B)</td>
<td>Bunan</td>
<td>(Th)</td>
<td>Thebor</td>
<td>(R)</td>
<td>Rangpa</td>
<td>(PTam)</td>
<td>PTam</td>
</tr>
<tr>
<td>(D)</td>
<td>Yano-Dafla</td>
<td>(G)</td>
<td>Gyarong</td>
<td>(ZZ)</td>
<td>ZZ-Haarh</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**one**
(M) itsa  (Ti) itsa  (Ks) id  (Ku) id  (B) tiki  (Th) ti  (R) tig  (D) akhin  
(G) kə-rek  (PTam) *gri(k)² (ZZ) tig

**two**
(M) džuṭa  (Ti) ſidži  (Ks) ſis  (Ku) niš  (B) ſisken  (Th) nişi  (R) nхиis  (D)  
anyi  (G) kə-ñes  (PTam) *nii² (ZZ) ni, ne

**three**
(M) sumu  (Ti) šum  (Ks) šum  (Ku) sum  (B) sumi  (Th) sum  (R) sum  
(D) um  (G) kə-sam  (PTam) *som² (ZZ) sum

**four**
(M) pi  (Ti) pi  (Ks) pu  (Ku) po  (B) pi  (Th) pi  (R) pi  (D) appi, apli  
(G) kə-wdi  (PTam) *blit² (ZZ) bing

**five**
(M) nə  (Ti) ə  (Ks) ə  (Ku) ə  (B) ənii  (Th) ənai  (R) əne  (D) ango  
(G) kə-mnəo  (PTam) *əna² (ZZ) nga

**six**
(M) trui  (Ti) ətui  (Ku) tug  (B) tui  (Th) tuki  (D) akke  (G) kə-tok  
(PTam) *drui² (ZZ) drug

**seven**
(M) nḥidži  (Ti) ſištši  (Ku) šištši  (B) ſiši  (Th) nəši  (D) kani  (G) kə-šñes  
(PTam) *hnis² (ZZ) snis, snes, snel

**eight**
(M) re  (Ti) gyêtei  (Ku) røy  (B) gyei  (Th) gyai  (D) plönō  (G) wo-ryat  
(PTam) *brat² (ZZ) gyad

**nine**
(M) ku  (Ti) kə  (Ku) əgui  (B) əgū  (Th) gwi  (D) kayo  (G) kə-ŋu  (PTam) *ku²  
(ZZ) gu-dug
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ten
(M) sà (Ti) sà (Ku) sọ (B) tšui (Th) tšui (D) rengcheng (G) sgye
(PTam) *tṣuyψ (ZZ) cu, cu-tse-na

hundred
(M) rù (Ti) rù (Ku) ra (B) gya (Th) gya (R) gya (D) lenggo (G) pa-rya (ZZ) ra

1 sg.
(M) gye (Ti) gye (Ku) sey (B) t%sui (ZZ) cu, cu-tse-na

2 sg.
(M) kaʔ (Ti) kaʔ (Ks) ko (Ku) kə (B) han (Th) ṭan (R) goŋ (D) goŋ
(G) goŋ-gyo

3 sg.
(M) du (Ti) [do] (Ks) du (Ku) do (B) tʃal (Ls) (Th)ʃu (R) #dhe (D) a
(G) wu-yo, mo

what
(M) tshi (Ti) khya (Ks) tʃhug (Ku) thod-tʃhod (B) kha (Th) kha (D)
hogu (G) ʃo (PTam) *tʃaʔ ~ *dau'

who
(M) ori (Ti) ari (Ks) hate (Ku) hət - həd (B) #su (Th) #su (R) ghwo (D)
hie (G) so

negation
(M) ma (Ti) [ma] (Ks) ma- (Ku) ma (B) [ma] (Th) ma (R) ma

prohibition
(M) thə (Ti) [tha-] (Ku) thə (B) [tha] (Th) thə (R) thə

man
(M) mì (Ti) mì (Ku) mi (B) mì (Th) mi (R) mi (D) bengni (G) te-mi
(PTam) *miʔ (ZZ) ni

woman
(M) [myo] (Ks) tʃime (Ku) tʃimed (B) [tsemed] (Th) ešri-tʃəŋ (R)
tʃäm (D) nyemé (G) mo-šam (ZZ) tsa-med
father
(M) ba (Ks) ba (Ku) bowa [apa] (B) [awa] (Th) apa, kya (R) a:pa

mother
(M) ya (Ks) ya (Ku) ama (B) ama (LSI) (Th) əmma (R) azma

son
(M) yò (Ti) yor (Ku) tšhaŋ (B) butsa (Th) phosli-tšaŋ

dauther
(M) [myo] (Ks) tšime (Ku) tšimed (B) [tsemel] (Th) ešri-tšaŋ (R) tšama

sister
(M) [rhing] [rhin] (Ks) riŋz (Ku) riŋz (R) rhindza

name
(M) min (Ti) [min] (B) min (Th) min (R) mhin

body
(G) ta skru (ZZ) ka-ya

side(right)
(G) ta nam ka khyas (ZZ) ngar

bone
(M) #rhuspa (Ti) #rhuspa (B) #ruspa

flesh
(M) ša (Ti) ša (Ku) ša (B) ša (Th) ša (R) sya (G) ša skem (ZZ) mang-thun

head
(M) punza (Ti) báloŋ (Ks) bal (Ku) [ba(h)] (B) puša (Th) piša (G) ta wo
(ZZ) pu, pur-lang, cog

forehead
(M) phyà (Ti) phetor (Ku) phya (B) phetor (Th) phya

hand
(M) gùra (Ti) gud (Ks) guď (Ku) gud (B) lag (Th) la (R) lag (D) lak
(G) ta-yak (PTam) *hyaa’ (ZZ) tsarang

finger
(M) bremza (Ti) brentsə (Ku) [prats] (B) botsi (Th) braŋ (R) bontša
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(G) ta yu ndzo ndzo (ZZ) sran

**nail**
(M) tin (Ti) tin (Ku) [tśin] (B) sun (Th) #śen (R) nōŋ

**foot**
(M) konza (Ti) bāŋ (Ks) pile (Ku) bāŋ (B) bāŋ (Th) bəŋkhot (R) nār
(D) lecho (G) ta-me (ZZ) tshas-phru

**nose**
(M) ŋā (Ti) ṛya (Ks) ta (Ku) stakutṣ (B) gyumphug (Th) nyum
(R) nhimi (D) nyepōm (G) ta-śna (PTam) *hna (ZZ) lgyum-zhi

eye
(G) tō mñak (ZZ) mig, dmig, yig

**blind**
(G) kā lo kṣi (ZZ) u-mig, ma-lig-min

**mouth**
(M) ḍā (Ti) ḍā (Ks) kakaŋ (Ku) khakoŋ (B) aŋ ~ aʔ (Th) a (G) tō śnes
(ZZ) aŋ-sho, khag

**bread**
(M) mutśha (Ti) mutśha (Ku) mutśha (B) altsham, [mutsa] (Th) mutśa

**tongue**
(M) lhe (Ti) lē (Ks) le (Ku) leː (B) lē (Th) le (G) tō śme (ZZ) skyel, lkyel

**ear**
(M) rheṭra (Ti) reṭra (Ks) rhod (B) reṭsi (Th) rōŋ (D) nyerung (G) tō-rīe
(ZZ) ra-tse

**hair**
(M) kra (Ti) bal (Ks) #kra (Ku) #kra (B) bal (Th) #kra (R) #kha (D) dömō
(G) rīe (ZZ) spa

(M) tsom (Ku) #spu (B) #pù (Th) #pū

**face**
(M) mod (Ti) mod (Ku) sto (B) mod (Th) mami (D) nyegmā (G) tō-gye
(PTam) *hlīr
cheek
(M) tšarni (Ti) #grampa (Ku) piɲ (B) #grampa (Th) #dampa (G) tə zhu bafi (ZZ)’ud

neck
(G) tə mgu (ZZ) khang

throat
(G) khruṅ khruṅ (ZZ) sbyib

chest
(M) kà (Ti) kyug (B) kyukțon (Th) kyu (G) ta ro (ZZ) pring-rgyud

breast
(M) tšutšu (Ti) tšutšu (Ku) tšutšu (B) moma (Th) #pipi (R) apu

hip
(M) thaka, um (Ti) #kyetpa (Ku) re (B) #kyetpa (Th) #kedpa

rib
(G) ta rnam ša ro (ZZ) hrib

shoulder
(G) ta rpak (ZZ) dar

shoulder blade
(G) sok pa (ZZ) tsog

belly
(M) khog (Ti) khog (Ks) šon (B) dan (Th) kho(k) (R) khoṭco (G) tə wok ku tsu (ZZ) gso-byed

arm
(G) ta rpak (ZZ) tsa-rang

knee
(M) puṣ (Ti) puṣ (Ku) bušban (B) pus (Th) puṣon

joint
(M) prul (Ku) [tsig] (B) #tšhilspa ~ tshikpa (Th) tšikh
leg
(G) tø phut pa (ZZ) nyung-zug

thigh
(M) drø (Ti) drø (Ku) lum (B) loša (Th) bulø (G) tø phut pa (ZZ) slad

fat
(M) tshosa (Ti) tshos (Ku) [tshos] (B) tshos (Th) tšo (R) tšos (G) ta þam
(ZZ) tshas

liver
(M) tìnña (Ti) #tšinpa (Ku) þhap [šin] (B) #tšinpa (Th) #tšinba (R) #tšinpa
(G) tø þši (ZZ) shin-tun

gall bladder
(G) mjì gri (ZZ) kha-bad

kidney
(G) bo tem (ZZ) rka-dur

intestines
(G) lañ ce (ZZ) hri-tsum

penis
(G) tø lep (ZZ) the-wer

vagina
(G) skyes lam (ZZ) pad-ma

heart
(M) šudža (Ti) šoдра (Ku) -, [stiŋ (TRJ)] (B) šoša (Th) šeša (D) hāpöök
(G) tø-šme (PTam) *tiŋ¹ (ZZ) tsi-ta

lungs
(M) lunña (Ti) #lwa (Ku) thrub (B) #groa (Th) #lwa (R) #lwa (G) tø-slo
(ZZ) lung-ni

breathe
(M) søg (Ti) sã (Ku) dom (B) søg (Th) dalp (G) ta söñ se (ZZ) sad, søg

tooth
(M) tšwā (Ti) tshā (Ks) gar (Ku) gør (B) suà (Th) swa (R) søg
(D) fi (G) tø-swa (ZZ) skod
gum
(M) #ñil (Ti) #ñil (Ku) [(s)til(h)] (B) #ñil (Th) #ñil

blood
(M) šì (Ti) sui (Ku) polatš (B) šui (Th) šui (D) oi (G) tə-ši (PTam) *kaa²
(ZZ) reg-thum

blood vessel
(G) tə kyr (ZZ) ni-nang, snu

skin
(M) trapī (Ti) boṭha (Ku) bɔd (B) batsi (Th) pakhpa (D) supin
(G) tə-nдут (ZZ) sad

saliva
(M) krati (Ti) trul (Th) trul ~ turul (R) krati

sweat
(M) [trug] (Ku) dusti (B) truks (Th) dusti, rabəŋ (R) tʃhyadpa

snivel
(M) fiapti (Ti) #nak (Ku) stəmti (B) #nəg

pus
(M) [nhɔg] (Ku) stək (R) nag

excrement
(M) khù (Ti) khù (Ku) khɔ (B) koko (R) ə:ka

urine
(M) tʃhənzi (Ti) tʃhənti (Ku) skli (B) dʒɔŋ (R) tʃyʊku

mind
(G) sem lo (ZZ) she, tha-yud, khri

animal
(G) sem cen, ku rínus (ZZ) rwang-she

yak
(G) ku nbru (ZZ) yag-gyad
horse
(M) rhan (Ti) rhan (Ks) rhan (Ku) raŋ (B) šaŋš (Th) šœŋ (R) rhâś
(D) ghora (G) nbro (ZZ) hrang

sheep
(G) k'o gyo (ZZ) rlug

lion
(G) seŋ ge (ZZ) sang-go

rabbit
(G) ka la (ZZ) bho-la

elephant
(G) løn po che (ZZ) has-ti

fish
(Ti) fiyœ (B) fiyœ (G) gyo? gyok (ZZ) tsa

silk
(G) ngok cen ru (ZZ) na-nam

wool
(M) [tšom] (Ti) [tsam] (Ku) tšom (B) [tsam] (Th) tšam - tšom (R) tšhom
(G) smok

dog
(M) khui (Ti) khui (Ks) kui (Ku) kui (B) khyœ - khyiu (Th) kui (R) khwi (D)
iki (G) khyœ (PTam) *hna khyu¹ (ZZ) ku-ra

bird
(M) pyœ (Ti) pyœ (Ks) tsarits (Ku) pyœ - pyatš (B) pyatsi (Th) pya (D) pœtta
(G) pa-cu (PTam) *hnya Mya¹² (ZZ) du

bear
(M) omo (Ti) omo (Ku) rikha (B) [wampu “yellow bear”] (Th) hom
(D) sëttöm (G) pri

mouse
(M) [piutsa] (Ku) pyœ (B) pyutsi[b-] (Th) piu ~ pio (R) nibtša
insect
(M) omđža (= snake) (Ti) om (= snake) (Ku) ḥəŋ “worm” (B) #bu (Th) #bu (R) #bhu

fly
(M) [yənza] (Ku) yan (Th) boyəŋ (R) bhudžyan (D) tayeng (G) kulu kə-nbyam

bee
(M) [yəməyənza] (Ku) bəšyaŋ (B) brəŋsi bu (Th) -byaŋ (D) tangu (G) gyu-wam

louse
(M) rig (Ti) rig (Ku) rig (B) šig (Th) ši (R) rhiːg (G) kha li (PTam) *syat²

flea
(Ku) [špəg] (B) mutig [sm-] (Th) miti (R) mhitiŋ

tail
(M) [mekutu] (Ku) [pöntsəniŋ] (B) #ŋama (Th) mekon

wing
(B) #šukpo (Th) #šokpa

fire wood
(M) šiŋ (Ti) šiŋ (Ku) [šiŋ] (B) šiŋ (Th) šiŋ (R) siŋ

grass
(M) šaŋ (Ti) sân (Ku) tši (B) tši (Th) tši (R) tši (D) eng (G) kə-tsa

leaf
(M) lab (Ti) lab (B) lab

egg
(M) [tiːlhiːŋ] (Ku) liŋ (B) khuartum (Th) tum (D) pūpū (G) tə-gam (PTam) *phum²

sun
(M) eke (Ti) ekhe (Ks) dupe (Ku) yume (B) ŋiːtsi (Th) ni (R) ni (D) dåŋyi (G) kə-yam, tani (PTam) *dini¹ (ZZ) nyi-ri
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moon
(M) latsa (Ks) dzošta (Ku) goltshen (B) lā (Th) gəlsən (D) pālo (G) tso-la (ZZ) zla-ri

cloud
(M) dù (Ti) dù (Ku) žu (B) dù (Th) žu (G) zdem (ZZ) du

fire
(M) mè (Ti) mè (Ks) mi (Ku) me (B) mè (Th) me (R) mhe (D) umè (G) tə mčak (ZZ) ne

smoke
(M) tù (Ti) tù (Ku) duəŋ (B) khû (Th) khu (R) khu

ash
(M) tab (Ti) tab (Ku) bospa [mepons] (B) kyucks (Th) #tıšu (R) tšchartō

water
(M) ti (Ti) soti (Ks) ti (Ku) ti (B) soti (R) ti (D) ishi (G) tə-gyu (PTam) *kyuy² (ZZ) ting

wind
(M) làn (Ku) làn (B) lan (Th) làn (D) dāri (G) kha-li (ZZ) li

stone
(M) #röq [rḥag] (Ti) rā? (Ku) #ræg (B) graŋ [gram] (Th) #ra - ræk (R) ur (D) elung (G) gya lok

snow
(M) [mʊŋ] (Ku) pom (B) [mu] (Th) əŋ (R) əŋ (D) tapum (G) tøy pa (ZZ) mu

nature
(G) rān ṅbyör kham (ZZ) du-drod

light
(G) ot (ZZ) khir

dark
(G) ku rüns (ZZ) gu-mun

sky
(Ti) namkø (B) nam (Th) nam (G) nam khañi (ZZ) mu, mu-khyung

darkness
(G) ku rñus, so war (ZZ) ni-dud, gu-mun zla-ri, a-kyo-sangs, gto-bu dod-de

daytime
(M) ñiro (Ti) ñir (Ku) lae (B) ñiro ~ ñiro (Th) nir (R) nir

a day
(M) [hrag] (Ti) [gyag] (Th) #žaŋma (R) gya

night
(B) phiro (Th) mundo, munya (R) mulyan

star
(G) tsu ngre (ZZ)'dz(w)ar-wag, wer-zhi

rainbow
(G) njafi (ZZ) sri-zham

rain
(G) tø mu (ZZ) kyi-tang

hail
(G) tø rmok (ZZ) gra-jil

burn
(G) kǝ nber (ZZ) bar

lake
(G) mčew (ZZ) da-ti

river
(G) mñan nguñ (ZZ) ting-sho

earth
(G) sa cha (ZZ) slas(-zhi)

dust
(G) rdul (ZZ) tur

mountain
(G) ta nbafi (ZZ) rang

valley
(G) kya kha (ZZ) khud

road
(M) [om] (Ti) amtsi (Ku) om (B) amtsi (Th) om - am (R) amtsa (D) laong
(G) ča la (PTam) *gyam² (ZZ) gyu, lgyum

bridge
(M) [tsham] (Ku) [tshamm] (R) dzanpho

field
(M) ri (rhi) (Ti) ri (Ku) rim (B) ríg (Th) ri - rim (R) rhigər (D) rek
(G) sa jañ (ZZ) tig-tig

barley
(G) k∫u (二栈理) (ZZ) zad

bow
(M) gumtsha (Ti) gumtsha (Ku) -,gum] (B) gumtsi (Th) gum, kuman

arrow
(M) t∫u (Ti) t∫u (Ku) -,moh] (B) srim (Th) šim

needle
(M) t∫ab (Ku) khye (B) khyep (Th) kep (R) khep (D) paksi (G) tə-rtʃot
(PTam) *dap²

house
(M) t∫uŋ (Ti) t∫uŋ (Ks) kim (Ku) kim (B) kyem [gy-] (Th) kyuŋ - kyem
(R) kim (D) o-gu (G) kyim (PTam) *dim³ (ZZ) se-to

salt
(M) t∫hɔ̀ (Ku) t∫ha (B) t∫hɔ̀ (Th) tsa (R) t∫ha

gold
(M) za - zan (Ks) zan (Ku) zan (B) #ser (LSh) (Th) zəŋ (R) džas (G) kṣar
(PTam) *mar (ZZ) mar-ži
silver
(M) mul (Ti) mul (Ks) [mul] (Ku) mul (B) mul (Th) mul (R) mul (D) tengka
(G) po ŋi

iron
(M) ṇiilom [lhilom] (Ks) ron (Ku) ron (B) #tšaks (Th) #tšakh (R) #tšyag
(D) räkderr (G) šam (ZZ) zangs

red
(M) šei (Ku) suig (B) ma[man]i (Th) maŋni (R) maŋd (D) lengchi (ZZ) ra

black
(M) roki (Ku) rōk (B) khai (Th) kani (R) tiŋd (D) keana (G) kə-nak
(PTam) *hmlan^2 (ZZ) kun

white
(M) tshānşi [šušš] (Ks) tšog (Ku) tšog (B) ši (Th) thəŋni (D) ponglu
(G) kə-pram (PTam) *tar^1 (ZZ) shim

blue
(M) [tiŋi] (Ku) raŋ [=green] (B) fi [tiŋi] (Th) tiŋni (ZZ) ting

yellow
(M) [lhei] (Ku) pik (B) [lhei] (Th) lene (R) lheb (D) jëvé (ZZ) ma-sang

heavy
(M) lhi: (Ku) lìg ~ li:g (B) li (Th) liko (R) li:x (D) ai (PTam) *lìi^1

light
(M) tšaŋni (Ku) [lamgids] (B) y Pitt (Th) yanko (R) yan'd (G) kə-yo
(PTam) *(n)yan^2

thick
(M) këi (B) ĕai (R) tuŋt

thin
(M) tshi₇te (Ku) [bagits] (B) lai?

hot
(M) [trotr'] (Ku) bɔk (B) phundži (Th) kosra (R) tšart
cold
(M) sôi (Ti) sôi (Ku) liš (B) sôi (Th) khotkyo

bitter
(M) kôtegi (Ku) kak (B) khaṭai (Th) khốtakpa (R) khôṭagt

sweet
(M) wâši (Ku) thig (B) khei (Th) nyamko (R) khyagt (G) kô-ṣhyi

sour
(M) surdži (Ku) surk (B) šui [šuri] (Th) surko (D) kungsukpa (G) kô-čor

new
(M) kharkoi (Ku) ŋug (B) nui (Th) nyuṇi (D) nittina (G) kô-ṣak

old
(M) yùi (Ti) yùi (Ku) ušk (B) yui (Th) #nuṇpa (R) yu: (D) kutchuk

ripe
(M) min- (Ku) [šo šo] (B) mini (Th) šo (bọŋ)

dry
(M) [kar-] (Ku) [tshars] (B) [khyoʒ] (Th) phorka

to do
(M) [lha-] (Ti) [la-] (Ks) ša /ọt- /ŋ- (Ku) lan- (B) [liŋ-] (Th) len- (R) ŋo- (D) reto (G) ka-ram

to go
(M) [i-] (Ti) [i-] (Ks) bu /ŋŋ- , buko- (Ku) bi- (B) [e-] (Th) de- (R) gyә- - dі- , yû- (D) guito (G) ka-čhe (PTam) *yә(r)½

to come
(M) [ə-] (Ti) [am-] (Ks) bo/ura- (Ku) bəŋ- (B) [ra-/goaŋ-] (Th) ra- (R) rha- (D) wàto (G) ka-we (PTam) *kha¹ (ZZ) phya-nga

to walk
(M) [zo-] (Ks) por- (Ku) yun- (Th) de-

to fly
(M) pham- (Ku) yab- (B) pan-
to be seen
(M) [tan-] (Ti) [tan-] (Ks) tan- (Ku) tan- (Th) tan- (R) tan- “find”

to see
(M) khàn (Ti) khàn (Ku) khya- (B) kan- (Th) kan- (R) kan-

to be heard
(M) [re-] (Ks) tsha- (Ku) ron- (B) hen- (Th) ron-, go- (R) yon-

to hear
(M) [tha-] (Ti) [tha-] (Ku) thos- (B) [gyags-] (G) ka ru nafi (ZZ) zhil-zhal(N)

to know
(M) fie- (Ti) fiye- (Ku) ne- (B) tsha- (Th) se- (R) sas-

to say
(M) [ku-] (Ti) [ku-] (Ks) lon- (Ku) lo- (B) [lo-] (Th) rin- (R) lwo- ~ Ia-

to talk
(M) [pra-] (Ti) [pra-] (Ku) lan- (B) [pha-] (Th) lo- ~ lok-

to ask
(M) [rukh-][g-] (Ks) ritši- (Ku) i- (R) rhu-

to laugh
(M) wà- (Ti) [wa-] (Ku) wèn- (B) sed- [sred-] (Th) wot-, kan- (R) rê-
(G) ka na ri (ZZ) ha-si-ga (N)

to cry
(M) kra- [-b-] (Ku) krəb- (B) tyo- (Th) twe

to die
(M) si- (Ti) si- (Ks) ši- (Ku) ši- (B) ši- (Th) šitš- (R) sis- (G) šu
(ZZ) gyog, gyag, grog

to kill
(M) so- (Ti) so- (Ku) šan- (B) pur- (Th) sat- (R) sad

to eat
(M) za- (Ti) ze- (Ks) za- (Ku) za- (B) za- (Th) za- (R) dzə- (G) ta ndzaw
(ZZ) drung-zad (food)
to drink  
(M) ṭuŋ- (Ti) ṭuŋ- (Ks) ṭuŋ- (Ku) ṭuŋ- (B) ṭuŋ- (Th) ṭuŋ- (R) tū-

to lick  
(M) yâk (Ku) [lem-] (B) lak- (Th) lem-

to bite  
(M) tšik- (Ti) tshā (Ku) [tšη]- (B) kre- [gre-] (Th) tši- (R) kad-

to smell  
(G) ka na nem (ZZ) shi-shim(N)

to sit  
(M) būŋ- (Ti) džo- (Ks) na- (Ku) to- (B) džod (Th) po- (R) hun-

to sleep  
(M) pheṭe ūu-[im (N)] (Ti) dus- (Ku) yāg- (B) ip- (Th) gutš- (if (N))  
(R) gutš- (i:b(N))

to dream  
(M) maŋ- (Ku) [maŋ-] (B) manks (N) (Th) maŋ- (R) məs (N)

to put  
(M) kē- (Ks) pi- (Ku) [ta-] (Th) ta:- (R) ta:-

to send  
(M) [tšor-][ts-] (Ti) [tsar-] (Ks) twat- (Ku) šen- (B) [stog-] (R) sa:-

to catch  
(M) [tsum-] (Ku) [tsum-] (B) [tsum-]

to strike  
(M) [teng-] (Ti) [tən-] (Ks) to- (Ku) tōŋ- (B) [tib-] (R) tād-

to break  
(M) [thag-] (Ku) tāg- (B) thak- (Th) kyak- (R) phag-

to boil  
(M) šu- (Ku) pan- (B) kwad- (Th) len- (R) pun-

to roast
(M) ro- (B) [ro-] (Th) rot- (R) ð-, hð-

to satisfy
(M) [pin-] (Ti) [piŋ-] (Ks) plen- (Ku) [pøŋ-] (B) [pin-] (Th) pin- (R) pin-

to be full/satisfied
(Ti) biŋ- (Ku) bøŋ- (B) biŋ- (G) kɔ pke (ZZ) gang

to wash
(M) tʃək- [tʃə-) (Ku) tʃi- (B) kyi- (Th) ur- (R) ur-

to give
(M) ran- (Ti) ran- (Ks) rat /ŋ- ke- (Ku) ran- ~ ke- (B) da- (Th) da/khe- (R)
khɔŋ- (D) bhitɔ (G) ka-mnɛr

to steal
(M) #ku- (Ku) khu- (B) kʊ- (Th) khut-

to buy
(M) tsum- (Ti) [yɔŋ-] (Ks) khan- (Ku) zɔŋ- (B) yok- (Th) #tʃɔŋ- (R) tʃɔŋ-

to sell
(M) lʊŋ- (Ti) [lʊŋ-] (Ku) ren- (B) lʊŋ(g)- (Th) rəŋ- (R) rəŋ-

to weave
(M) rhɔŋ- (Ku) tag- [-ŋ] (B) ran- (Th) tak- (R) rhɔŋ-

to sew
(M) pɛn- (Ku) [pɔn-] (B) phan- (Th) pu/-on- (R) -phan- (D) hamtɔ