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PRELIMINARY NOTES ON THE LANGUAGES OF THE BUMTHANG GROUP

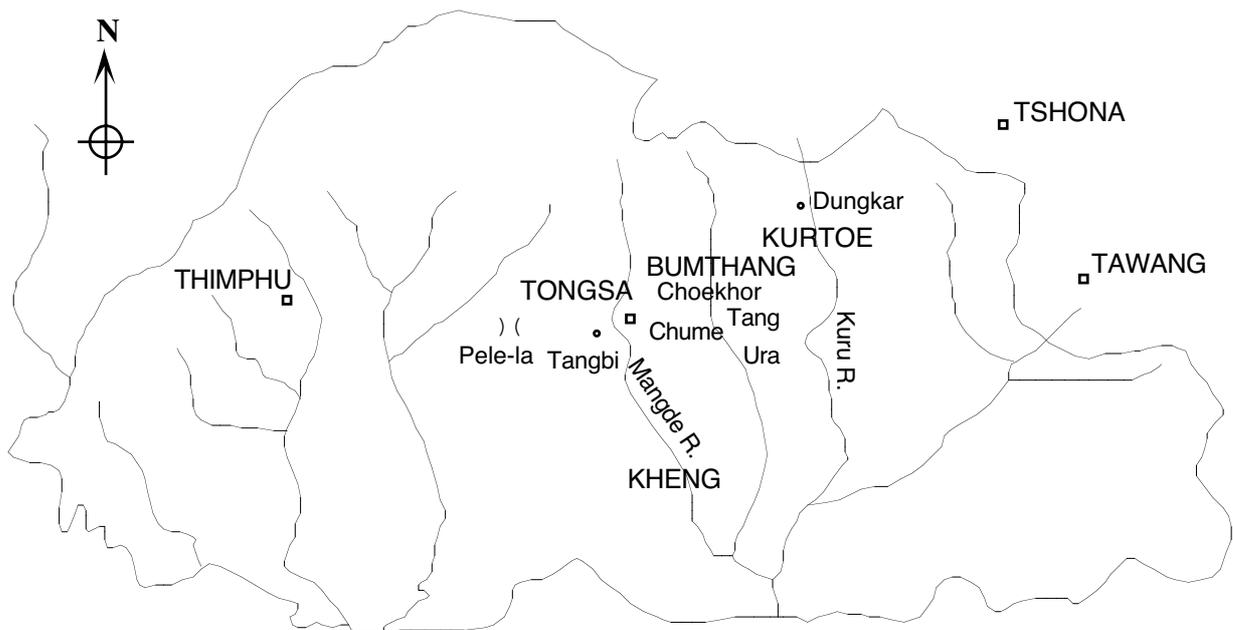
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1. The Bumthang languages

Bhutan is home to perhaps a dozen Tibeto-Burman languages; the three major ones, from west to east, are Dzongkha, the official language, linguistically a Tibetan dialect, Bumthap, and Sharchop (or Tshangla).

The main language of Central Bhutan, Bumthap, and its varieties or relatives may be referred to as the Bumthang group. This group is somewhat diverse. We will base our description on Kurtoep (Kt), the language of Dungkar and the Kurtoe (“upper Kuru Valley”) region in Lhuntse district to the east of Bumthang, on which we collected data in Delhi in 1977-78. Bumthap proper (Bt) is the language of the four valleys of Bumthang district; we have a small amount of data, collected in Bhutan in 1986, on the dialects of Chume (Cm), Choekhor (Ck), and Ura (U) (the remaining valley is Tang). Kurtoep, Bumthap proper, and, by all reports, Khengke, to the south of Bumthang, are mutually intelligible. We have also included some preliminary material on a more divergent language, Mangdep<sup>1</sup>, from Tangbi village in Tongsa district (see map), which may also belong to the Bumthang group.

The Bumthang languages are clearly closely related to Tibetan in addition to being heavily influenced by it, but we will show evidence that they are not Tibetan dialects, that is, unlike Dzongkha, they are not continuations of (roughly) the language reflected in the Tibetan writing system.



Map of Bhutan



*Initials:*

|                    |                  |    |   |     |   |     |    |    |
|--------------------|------------------|----|---|-----|---|-----|----|----|
| high-toned         | k                | c  | ɕ | ts  | s | t̥  | t  | p  |
| high-toned         | kh               | ch |   | tsh |   | t̥h | th | ph |
| low-toned          | g                | ɟ  | z | dz  | z | d̥  | d  | b  |
| high/low-toned     | ŋ                | ɲ  |   |     |   |     | n  | m  |
| high/low-toned     | j                | r  | l |     |   |     |    |    |
| low-toned          |                  |    |   | w   |   |     |    |    |
| mostly high-toned: | vocalic initials |    |   |     |   |     |    |    |

*Initial clusters:*

|      |     |     |    |
|------|-----|-----|----|
| kw   | pj  | pr  | pl |
| khw  | phj | phr |    |
| gw   | bj  | br  | bl |
| (ŋw) | mj  | mr  |    |

*Word-final consonants:*

|     |   |   |
|-----|---|---|
| (k) | t | p |
| ŋ   | n | m |
|     | r |   |

*Word-internally:*

|     |   |   |
|-----|---|---|
| add | k | s |
|-----|---|---|

*Vowels:*

|   |   |   |   |   |
|---|---|---|---|---|
| i | e | a | o | u |
|---|---|---|---|---|

*Diphthongs:*

|                         |
|-------------------------|
| au, iu                  |
| ui ~ ü, oi ~ ö, ai ~ e: |

*Length:*

On open syllables only, Kurtoep has a distinction between short smooth and long glottalized syllable-types. (This distinction is absent in Bumthap proper — see below.) In addition, the presence of a grammatical morpheme may lead to a long smooth syllable, as in /wi:/ [ʋi:] ‘you’ in the ERGATIVE-INSTRUMENTAL case.

*Tone register (high vs low):*

A high vs low contrast is found on words with nasal or continuant initials. Initial stops and sibilants also have distinctive tonal register, high for unvoiced (p, t, k, c, s, ɕ) and low for voiced (b, d, g, ɟ, z, ʒ). Voicing is often absent in pronunciation, leaving only the low tone to insure the contrast. Thus, ʒ- is usually pronounced <sup>l</sup>ɕ-.

Vocalic initials are generally high-register, but one word at least, Kt <sup>l</sup>a:tom (Bt <sup>l</sup>auja WT *wa*) ‘jackal’ is clearly low-register (and breathy, so that it could be transcribed as <sup>l</sup>hauja). Words like wo ‘that’ could also be considered as having low-register vocalic rather than semivowel initials.

Typologically, the intersection of two tonal registers with a distinction between glottalized and smooth syllable types is typical of Tibetan dialects. We may note, however, that the opposition short/smooth vs long/glottalized only occurs on open syllables in Kurtoep, whereas in Central Tibetan it extends to nasal-ending syllables and in Dzongkha to all syllable types. Kurtoep and Bumthap also differ from Lhasa Tibetan and Dzongkha (as spoken by native speakers from west of the Pele-la) in the absence of a voicing opposition within the low register.

Some Kurtoep speakers have an initial high-register h- initial in at least some words where others have kh-; thus Kt, Bt khako ‘up’ is pronounced <sup>H</sup>hako by some Kt speakers.

The palatal series is affricated in Kurtoep [tc...]. None of the group has an opposition between palatal stops (c, ch, ɟ) and palatalized affricates (tc, tch, dz), as recorded in the Mama variety of Cuona Monpa (but not in Wenlang), and as we find in CT. The phonemes noted ɕ, ʒ are realized as retroflex [ʂ, ʐ] in Ck.

We will now discuss the origin of the present phonological system.

### 3. Topics in historical phonology

#### 3.1 Finals

##### 3.1.1 Word Finals

As noted above, the system of final consonants in Bumthang languages is relatively rich. These finals seem to reflect rather faithfully the Proto-Tibeto-Burman (PTB) finals as reconstructed by Benedict. Since WT (as opposed to modern CT) is also conservative in this respect, it can be a useful basis for comparison.

Old PTB finals \*p, \*t, \*m, \*n, \*ŋ, and \*r are kept in all Bumthang dialects. In Kurtoep, final \*k, \*s (for some speakers<sup>6</sup>), and \*l are dropped, giving rise to a lengthening of the preceding vowel and a glottalized tone. In Bumthap proper \*k and \*s are retained (with \*-s > -t in Choekhor), and there are no long glottalized finals:

|        | Kt                 | Bt (Ck)           | (Cm)              | Mang             | Dakpa                               | WT           | PTB <sup>7</sup> |
|--------|--------------------|-------------------|-------------------|------------------|-------------------------------------|--------------|------------------|
| iron   | <sup>H</sup> la:ʔ  | <sup>H</sup> lak  | <sup>H</sup> lak  | cak              | lek <sup>53</sup>                   | <i>lcags</i> |                  |
| blood  | ka:ʔ               | kak               | kak               | ka:              | ceʔ <sup>53</sup>                   | <i>khrag</i> |                  |
| seven  | <sup>H</sup> ni:ʔ  | <sup>H</sup> nit  | <sup>H</sup> nis  | <sup>H</sup> nis | nis <sup>55</sup>                   |              | s-nis            |
| paddy  | <sup>L</sup> mra:ʔ | <sup>L</sup> mrat | <sup>L</sup> mras |                  |                                     | <i>'bras</i> |                  |
| barley | <sup>L</sup> na:ʔ  | <sup>L</sup> nat  | <sup>L</sup> nas  | <sup>L</sup> nes | nAʔ <sup>13</sup>                   | <i>nas</i>   |                  |
| wool   | be:ʔ               | bai               | bai               | bɛ:              |                                     | <i>bal</i>   |                  |
| back   | ke:ʔ               | kai               | kai               | gɛ:tshe          |                                     | <i>sgal</i>  | s-ga:l           |
| kidney | khe:doʔ            | khai              | khe:do            | khæ:m            | khɛ: <sup>55</sup> ma <sup>53</sup> | <i>mkhal</i> | m-kal            |
| silver | <sup>L</sup> ŋoi   | <sup>L</sup> ŋoi  | <sup>L</sup> ŋoi  | <sup>H</sup> ŋü: |                                     | <i>dngul</i> |                  |

##### 3.1.2 Influence of finals on vowel quality

Palatalization of vowels before old dental finals is a typical CT feature. In languages of the Bumthang group, only \*-l has such an effect, and this through the development of a diphthong (see Ck and Cm in ‘wool’, ‘back’ ‘kidney’, ‘silver’ above). Final \*-t and \*-n (which are retained) and \*-s (whether retained or dropped) do not front the vowel. In the neighboring language of Mangdep, we can observe palatalization linked to an old \*-s (‘honey’ and ‘barley’ below) or \*-t (‘to blow’).

|            | Kt                | Bt (Ck)          | (Cm)             | Mang             | Dakpa                         | WT          | Dz                | Tam                                     |
|------------|-------------------|------------------|------------------|------------------|-------------------------------|-------------|-------------------|---|
| barley     | <sup>L</sup> na:ʔ | <sup>L</sup> nat | <sup>L</sup> nas | <sup>L</sup> nes | nAʔ <sup>13</sup>             | <i>nas</i>  | <sup>3</sup> na:  |   |
| bee, honey | <sup>L</sup> wa:ʔ | <sup>L</sup> wat | <sup>L</sup> was | <sup>L</sup> jös |                               |             |                   | Gur <sup>4</sup> kwe                    |
| stairs     | ka:ʔ              | kat              | kas              |                  |                               | <i>skas</i> |                   |   |
| language   | kat               | kat              | kat              |                  | ku <sup>53</sup>              | <i>skad</i> | <sup>1</sup> ke:  | <sup>2</sup> kat                        |
| vulture    | got               |                  | gotpa            |                  |                               | <i>rgod</i> | <sup>3</sup> goe: | <sup>4</sup> kwat < <sup>*B</sup> grwat |
| to blow    | but-              | but-             | but-             | büʔ              | phuʔ <sup>53</sup>            | <i>'bud</i> |                   | <sup>1</sup> phut                       |
| medicine   | <sup>H</sup> man  | <sup>H</sup> man | <sup>H</sup> man |                  | ma <sup>n</sup> <sup>53</sup> | <i>sman</i> | <sup>1</sup> men  | <sup>1</sup> man                        |

An exception is Kurtoep <sup>H</sup>je:ʔ ‘right (side)’, Bt <sup>H</sup>jeba WT *g.yas*. The fronted pronunciation may be borrowed: note that \*-s has a fronting effect in Central Tibetan but not in Dzongkha (<sup>1</sup>ya:ʔ).

##### 3.1.3 Word-internal finals; chronology of composition

As is the case in CT or Dzongkha, composition often predates the phonological changes which affected the finals. Thus inside a word, syllable-final \*-s and \*-k are kept, even in Kurtoep (but \*-s > -t in Choekhor):

|              | Kt                  | Bt (Ck)            | (Cm)               | Mang               | Dakpa                               | WT               | Tam                 |
|--------------|---------------------|--------------------|--------------------|--------------------|-------------------------------------|------------------|---------------------|
| barley flour | <sup>L</sup> nasphi |                    |                    |                    |                                     | <i>nas, phye</i> |                     |
| body         | <sup>L</sup> luspu  |                    | <sup>L</sup> luspu |                    | lu <sup>13</sup> po <sup>53</sup>   | <i>lus-po</i>    | <sup>3</sup> lwi    |
| bone         | <sup>L</sup> rospa  | <sup>L</sup> rotpa | <sup>L</sup> rosa  | <sup>L</sup> rotho |                                     | <i>rus-pa</i>    | <sup>2</sup> nakhru |
| skin         | pakpa               | pakpa              | pakpa              | pogo               | phe <sup>55</sup> khu <sup>53</sup> | <i>pags-pa</i>   |                     |

## 3.1.4 Verb root finals

Kurtoep verb roots are cited here in a morphophonemic transcription, e.g. *blek-* ‘leave, put down’, <sup>H</sup>*mul-* ‘sell’. In actually occurring verb forms, however, -k and -l do not appear word-finally, and non-front vowels in -l roots are fronted or diphthongized, whether the -l is dropped or not, thus: <sup>H</sup>*muile* ‘sell!’, <sup>L</sup>*ŋat* <sup>H</sup>*memui* ‘I will not sell’ (voir §5).

## 3.2 Vowel correspondences

## 3.2.1 Kurtoep o ~ WT u

Kurtoep and Bumthang vowels often correspond to identical vowels in WT. Shafer noted, however, that WT non-final high vowels often corresponded to mid vowels in Dakpa: WT *iC, uC* ~ Dakpa *eC, oC*. In Kurtoep and Bumthap, *o* is most often found to correspond with WT *u*, in final as well as non-final position. When we have evidence outside the group—here from Tamang—it points to proto-Bodish \**u*.

|             | Kt                | Bt (Ck, Cm)            | Mang              | Dakpa               | WT               | Tam                                      |
|-------------|-------------------|------------------------|-------------------|---------------------|------------------|--|
| grain, seed | bro               | bro                    | bru               | pru <sup>53</sup>   | <i>'bru</i>      | PTB * <i>mruw</i>                        |
| fur         | po                | po                     | po                | pu <sup>53</sup>    | <i>spu</i>       | <sup>3</sup> <i>pu-<sup>2</sup>tsham</i> |
| son         | bo                | bodza                  | bɔs               | pu <sup>13</sup>    | <i>bu</i>        |  |
| horn        | <sup>L</sup> ro   | <sup>L</sup> ro        | <sup>L</sup> rəu  | ru: <sup>13</sup>   | <i>ru, rwa</i>   | <sup>1</sup> ru                          |
| wash        | ʈho-              | khro-, hro-            | ʈho-              | khru? <sup>53</sup> | <i>'khrud-pa</i> | <sup>2</sup> khru                        |
| manure      | <sup>L</sup> jot  | <sup>L</sup> jot       |                   | lon <sup>55</sup>   | <i>lud</i>       |  |
| six         | ɖo:ʔ              | grok, <sup>L</sup> rok | ɖu:               | kro? <sup>53</sup>  | <i>drug</i>      | <sup>4</sup> ʈu:                         |
| sheep       | <sup>L</sup> jo:ʔ | <sup>L</sup> jok       | <sup>L</sup> lo:ʔ | jeŋ <sup>13</sup>   | <i>lug</i>       | <sup>4</sup> kju                         |
| poison      | do:ʔ              | dok                    |                   | tu <sup>13</sup>    | <i>dug</i>       |  |
| drink       | thoŋ-             | thoŋ-                  | thoŋ-             | toŋ <sup>55</sup>   | <i>'thung-ba</i> | <sup>2</sup> thuŋ                        |
| load        | khor              | khor                   | khor              |                     | <i>khur</i>      |  |

See also ‘silver’ (§3.1.1), ‘bone’ (§3.1.3), ‘come off’ (§3.3.1), ‘sprout’, ‘thread’, ‘warm’, ‘sew’ (§3.3.4), ‘nine’ (§3.4.3), ‘extract’ (§3.5 WT *'byung-ba*). This shift, however, is not without exception (e.g. ‘blow’ §3.1.2, ‘cheese’ §3.3.3, ‘elbow’, ‘abrade’ §3.3.4 ‘handle’ §3.4 1), and can even be reversed:

|         | Kt   | Bt (Ck, Cm) | WT             | Tam               |
|---------|------|-------------|----------------|-------------------|
| straw   | su:ʔ | suk         | <i>sog-ma</i>  |                   |
| to hear | thu- | thu-        | <i>thos-pa</i> | <sup>1</sup> thai |

## 3.2.2 Kurtoep e ~ WT i (after palatals)

Unlike the correspondence WT *u* ~ Kt *o*, for which no conditioning factor is known, the correspondence WT *i* ~ Kt *e* is less frequent and apparently related to the initial. In our material, the set of words showing this correspondence coincides almost exactly with the set in which a WT palatal initial (*c, ch, j, ny, sh, zh*) corresponds to a Kurtoep non-palatal (but note Kt <sup>L</sup>*meŋ* ‘name’ ~ WT *ming* below).

|        | Kt               | Bt (Ck)          | (Cm)             | Mang               | Dakpa                              | WT             |
|--------|------------------|------------------|------------------|--------------------|------------------------------------|----------------|
| sun    | <sup>L</sup> ne  | <sup>L</sup> ni  | <sup>L</sup> ni  | <sup>L</sup> nece? | (pɭaŋ <sup>53</sup> )              | <i>nyi-ma</i>  |
| heart  | <sup>H</sup> neŋ | <sup>H</sup> neŋ | <sup>H</sup> neŋ |                    | niŋ <sup>53</sup>                  | <i>snying</i>  |
| day    | <sup>L</sup> nen | <sup>L</sup> nen | <sup>L</sup> nen | <sup>L</sup> ne:c  | ŋin <sup>13</sup>                  | <i>nyin-ma</i> |
| to die | se-              | se-              | se-              | se                 | ci <sup>53</sup>                   | <i>shi-ba</i>  |
| louse  | se:ʔ             | sek              | sek              | se:ʔ               | ce? <sup>53</sup>                  | <i>shig</i>    |
| tree   | seŋ              | seŋ              | seŋ              | sē:                | ceŋ <sup>55</sup> mΛ <sup>53</sup> | <i>shing</i>   |
| one    | the:ʔ            | thek             | thek             | the:               | the:? <sup>53</sup>                | <i>gcig</i>    |
| urine  | zeŋma            | zeŋma            | zeŋma            |                    | tchin <sup>53</sup>                | <i>gcin</i>    |
| name   | <sup>L</sup> meŋ | <sup>L</sup> meŋ | <sup>L</sup> meŋ | <sup>L</sup> miŋ   | meŋ <sup>35</sup>                  | <i>ming</i>    |

The same vowel correspondence obtains in three examples (‘tasty’, ‘four’, ‘field’) where Kurtoep *l-* corresponds to WT *zh-* (§3.4.2).

### 3.2.3 Kurtoep *i* ~ WT *u* (after palatal affricates)

Shafer noted the correspondence WT *-u* ~ Dakpa *-i* after palatal affricates, citing ‘ten’ and ‘water’. These two items have *-e* in Bumthang, but the general correspondence of back to front vowels holds:

|       | Kt   | Bt (Ck) | (Cm) | Mang    | Dakpa                               | WT          | Tam                |
|-------|------|---------|------|---------|-------------------------------------|-------------|--------------------|
| ten   | che  | che     | che  | khepceʔ | tei <sup>53</sup>                   | <i>bcu</i>  | <sup>2</sup> tsjui |
| water | khwe | khwe    | khwe | khē:    | tshi <sup>53</sup>                  | <i>chu</i>  | <sup>2</sup> kjui  |
| small | ciŋ- | ciŋ-    | ciŋ- | chiŋ    |                                     | <i>cung</i> |                    |
| lip   | chi  | chi     | chi  | chi     | tchu <sup>55</sup> tɔ <sup>55</sup> | <i>mchu</i> |                    |

See also ‘bow’ (§3.4.2). Exceptions: Kurtoep cut- ‘braid’ (WT *gcud-pa*), and chupa ‘Tibetan robe’ (probably a loan—WT *chu-pa*). After a non-palatal initial, Kurtoep (and Cm) thiŋku ‘short’, (Mang thiŋ-, Dakpa thuŋ<sup>55</sup>-po<sup>53</sup>, WT *thung-*) is possibly influenced by ciŋku ‘small’.

### 3.2.4 Kurtoep *u* ~ WT *a* (in verbs)

In verbs, Kurtoep *u* often corresponds to WT *a*:

|               | Kt                | Bt (Ck)           | (Cm)              | Mang  | Dakpa                               | WT                                |
|---------------|-------------------|-------------------|-------------------|-------|-------------------------------------|-----------------------------------|
| eat           | zu-               | zu-               | zu-               | zu-   | zA <sup>13</sup>                    | <i>za-ba</i>                      |
| gnaw          | chu-              |                   |                   |       | chA <sup>53</sup>                   | <i>cha'a-ba</i>                   |
| cut           | chut-             |                   |                   |       |                                     | <i>gcod-pa (CAD)</i> <sup>8</sup> |
| kill          | sut-              | sut-              | sut-              | süʔ-  | sot <sup>53</sup>                   | <i>gsod-pa (SAD)</i>              |
| weave         | thuk-             | thuk-             | thuk-             |       | kAn <sup>55</sup> the <sup>53</sup> | <i>'thag-pa</i>                   |
| study         | <sup>H</sup> lup- | <sup>H</sup> lup- | <sup>H</sup> lup- |       | lop <sup>53</sup>                   | <i>slob-pa (SLAB)</i>             |
| sharpen       | dur-              | dur-              | dur-              |       | tor <sup>13</sup>                   | <i>bdar-ba</i>                    |
| spin (thread) | khul-             | khul-             | khul-             |       | che: <sup>55</sup>                  | <i>'khal-ba</i>                   |
| hang          | pjuŋ-             | cuŋ-              | cuŋ-              |       |                                     | <i>dpyang-ba</i>                  |
| winnow        |                   | khruŋ-            | hrup-             | tʃup- |                                     | <i>'khrab-pa</i>                  |

### 3.2.5 Kurtoep *i* ~ WT *yV*

Kurtoep *i* often corresponds to WT medial *y* regardless of the following WT vowel, as in ‘flour’ (§3.1.3), ‘hearthstone’ (§3.5.2), and the following:

|       | Kt      | Bt (Ck) | (Cm)    | Dakpa                                  | WT               |
|-------|---------|---------|---------|--|------------------|
| wear  | gin-    | gin-    | gin-    | cen <sup>35</sup> na <sup>35</sup>     | <i>gyon-pa</i>   |
| turn  | gir-    |         |         |  | <i>sgyur-pa</i>  |
| cold  | khik-   | khik-   | khik-   | chek <sup>53</sup> pa <sup>53</sup>    | <i>khyags-pa</i> |
| broom | phiksaŋ | phiksaŋ | phiksaŋ | tchAp <sup>55</sup> thAm <sup>55</sup> | <i>phyag-ma</i>  |

## 3.3 Initial clusters

Old PTB word-initial consonant clusters were reduced in all Bumthang dialects to a C or CC structure, but less drastically than in CT. In particular Labial + *j*, *r*, and *l* clusters exist in all dialects, to varying degrees. It is not always clear whether they are old or innovative.

### 3.3.1 Labial + *l*

Shafer noted that the word ‘four’ in Dakpa, as opposed to WT, retains PTB \**l* in the initial cluster *bl-*. The cluster, in this and other roots, may be a retention of \**bl-*, to judge by the realisation in other languages like those of the TGTm group, although examples are not numerous:

|            | Kt                  | Bt (Ck, Cm)        | Mang            | Dakpa             | WT             | Tam                | PTB        |
|------------|---------------------|--------------------|-----------------|-------------------|----------------|--------------------|------------|
| four       | ble                 | ble                | brɛ:            | pli <sup>53</sup> | <i>bzhi</i>    | <sup>4</sup> pli   | b-liy      |
| leaf       | bla <sup>2</sup> ma | <sup>H</sup> lamba | <sup>H</sup> la |                   | <i>'dap-ma</i> | <sup>3</sup> lapte | la/lap/pak |
| -ful, one- | -bleŋ               | -bleŋ              |                 |                   |                | <sup>1</sup> pliŋ  | bliŋ~pliŋ  |
| come off   | plot-               | plot-              |                 |                   | <i>'bud-pa</i> |                    |            |
| leave      | blek-               | blek-,lek-         |                 |                   |                | <sup>1</sup> leŋ   |            |

### 3.3.2 Labial + j

Only a few medial j are found in Kurtoep, and only after initial labials. Other dialects lack Labial + j clusters.

|                    | Kt                 | Bt (Ck)           | (Cm)              | Mang             | Dakpa   | WT                   | Tam                 |
|--------------------|--------------------|-------------------|-------------------|------------------|---|----------------------|---------------------|
| hang               | pjuŋ-              | cuj-              | cuj-              |                  |   | <i>dpyang-ba</i>     |                     |
| ashes              | bja                |                   | thapja            |                  | plA <sup>13</sup>                                 |                      | <sup>1</sup> mephra |
| to call            | bja-               |                   | ja-               |                  |   |                      |                     |
| to get             | <sup>L</sup> mjan- | <sup>L</sup> ñoŋ- |                   |                  |   | <i>myong (MYANG)</i> |                     |
| swallow            | <sup>L</sup> mjot- |                   | <sup>L</sup> not- |                  | <sup>ŋ</sup> ut <sup>53</sup> tho <sup>2</sup> 53 | <i>mid-pa</i>        |                     |
| arrow <sup>9</sup> | <sup>L</sup> mja   | <sup>L</sup> mewa | <sup>L</sup> ña   | <sup>L</sup> mra | blA <sup>53</sup>                                 | <i>mda'</i>          | <sup>1</sup> mja    |

We may also cite Kt pjo 'a lie' and bjo 'taro'.

### 3.3.3 Labial + r

Clusters of labial + r seem to have been the most stable across the family. See Kt bro 'grain, seed' and the following:

|           | Kt                 | Bt (Ck)           | (Cm)              | Mang   | Dakpa   | WT, (TGTM)                         |
|-----------|--------------------|-------------------|-------------------|--------|---|------------------------------------|
| monkey    | pra                | pra               | pra               | pra    | prA <sup>53</sup>   | <i>spra</i>                        |
| finger    | primaŋ             | primaŋ            | primaŋ            |        | lA <sup>2</sup> 53priu <sup>53</sup>  | (Tam <sup>H</sup> primci)          |
| cheese    | phrum              | phrum             | phrum             | phrum  |   | <i>phyur-ba</i>                    |
| to tear   | phret-             | phret-            | phret-            |        | phrɛ <sup>2</sup> 53  |                                    |
| tray      | bra                | bra               | bra               | brɛxɛp |   |                                    |
| buckwheat | bra:ma             | branma            | branma            | brɛ:m  | pre: <sup>13</sup> tɕi <sup>53</sup><br>cA: <sup>55</sup> pre <sup>53</sup> | <i>bra</i> (Thak <sup>3</sup> pre) |
| chest     | braŋto             | braŋdo            | braŋdo            | braŋko | prAŋ <sup>13</sup>  | <i>brang-khog</i>                  |
| odor      | bri                | bri               | bri               |        | ʂi <sup>53</sup>  | <i>dri</i>                         |
| hunger    | bru                |                   | bru               |        |   | <i>bro-wa</i> 'taste'              |
| ant       | bruktila           | bruktula          | bruktula          | butil  | ʂuk <sup>55</sup> pu <sup>53</sup>  | (Gur <sup>2</sup> nabbru)          |
| scratch   | <sup>L</sup> mrat- | brat-             | brat-             |        | (po <sup>2</sup> 53)  | <i>'brad-pa</i>                    |
| paddy     | <sup>L</sup> mra:ʔ | <sup>L</sup> mrat | <sup>L</sup> mras |        | (tem <sup>13</sup> )  | <i>'bras</i>                       |

### 3.3.4 Velar clusters

Only velar + w, of somewhat unclear origin, is found in a few Kurtoep examples:

|        | Kt                | Bt (Ck)           | (Cm)              | Mang            | Dakpa                         | WT                            | Tam                | PTB              |
|--------|-------------------|-------------------|-------------------|-----------------|-------------------------------|-------------------------------|--------------------|------------------|
| sprain | kwir-             |                   | gwir-             |                 |                               | <i>sgyur-ba</i> <sup>10</sup> |                    |                  |
| tooth  | kwa               | kwa               | kwa               | <sup>H</sup> wa | wA <sup>53</sup>              | <i>so</i>                     | <sup>1</sup> swa   | s-wa             |
| dog    | khwi              | khwi              | khwi              | chö             | chi <sup>53</sup>             | <i>khyi</i>                   | <sup>1</sup> nakhi | kwiy             |
| water  | khwe              | khwe              | khwe              | khě             | tshi <sup>53</sup>            | <i>chu</i>                    | <sup>2</sup> kjwi  | ti(y)/twiy       |
| buy    | <sup>L</sup> ŋwi- | <sup>L</sup> ŋwi- | <sup>L</sup> ŋwi- |                 | <sup>ŋ</sup> er <sup>13</sup> | <i>nyo-ba</i>                 |                    |                  |
| two-   | -gwa              |                   | -gwa              |                 | tɕA <sup>53</sup>             | <i>cha</i>                    |                    | <i>Qiang guə</i> |
| tether | gwi-              |                   | gwe-              |                 |                               |                               |                    |                  |

Velar + r clusters usually followed an evolution similar to CT in Kurtoep, developing into an affricated retroflex series, while they were retained in Bumthang (Ck) and are realized as r in Cm. Thus Cm has high register <sup>H</sup>r- and hr- corresponding to Ck kr-, khr-, while Cm <sup>L</sup>r- corresponds to both Ck gr- and <sup>L</sup>r-. Note that Kt sometimes has <sup>H</sup>r- rather than ʈ- corresponding to Ck kr-.

|         | Kt                  | Bt (Ck)  | (Cm)                 | Mang               | Dakpa                                 | WT                | Tam                      |
|---------|---------------------|----------|----------------------|--------------------|---------------------------------------|-------------------|--------------------------|
| hair    | <sup>H</sup> ra     | kra      | <sup>H</sup> ra      | <sup>H</sup> ra    | khra <sup>53</sup>                    | <i>skra</i>       | <sup>1</sup> kra         |
| thread  | <sup>H</sup> rotman | kronman  | <sup>H</sup> rotman  | <sup>H</sup> rɔp   |                                       | <i>rgyud</i>      |                          |
| village | toŋ                 | kroŋ     | <sup>H</sup> roŋ     |                    | tʂoŋ <sup>13</sup> sep <sup>53</sup>  | <i>grong</i>      |                          |
| dirt    | tekpa               | krekpa   | <sup>H</sup> rekpa   | dɛkpeʔ             |                                       | <i>dreg-pa</i>    | <sup>1</sup> khiti       |
| nit     | <sup>H</sup> rikar  | kriwit   | <sup>H</sup> riwis   | <sup>H</sup> riula |                                       |                   |                          |
| roll    | tʂhil-              | khрил-   | hril-                |                    |                                       | <i>'khril-pa</i>  |                          |
| winnow  |                     | khруп-   | hrup-                | tʂhup-             |                                       | <i>'khrab-pa</i>  |                          |
| go up   | tʂhaŋ-              | khraŋ-   | hraŋ-                |                    |                                       |                   |                          |
| wash    | tʂho-               | khro-    | hro-                 | tʂho-              | khru <sup>ʔ53</sup>                   | <i>'khrud-pa</i>  | <sup>2</sup> khru        |
| sprout  | tʂhoŋ-              | khroŋ-   | hroŋ-                |                    | khroŋ <sup>53</sup>                   | <i>'khrung-ba</i> |                          |
| count   | dʌŋkha              | graŋ-    | <sup>L</sup> raŋkha  |                    |                                       | <i>grangs</i>     |                          |
| cry out | dʌk-                |          | <sup>L</sup> rak-    |                    | grek <sup>35</sup> (W)                | <i>'grags-pa</i>  |                          |
| shadow  | dɛm                 | gɾep     | <sup>L</sup> rep     |                    |                                       | <i>grib(-ma)</i>  | <sup>2</sup> krip        |
| elbow   | dʌmaliŋ             | grumaŋti | <sup>L</sup> rumaŋti |                    | krum <sup>13</sup> teuŋ <sup>53</sup> | <i>gru-mo</i>     | <sup>1</sup> kru 'cubit' |
| six     | dʌo:ʔ               | grok     | <sup>L</sup> rok     | dʌu:               | kro <sup>ʔ53</sup>                    | <i>drug</i>       | <sup>4</sup> tʂu         |
| warm    |                     | grut-    | <sup>L</sup> rut-    |                    | kro <sup>35</sup> po <sup>53</sup>    | <i>drod</i>       | <sup>4</sup> dʌot        |
| mule    | dʌe:ʔ               | dɛ       | griu (u)             |                    | kre <sup>ʔ35</sup>                    | <i>drel</i>       |                          |

Some PTB dental + r clusters seem to have shifted to velar + r in Common Bumthang as noted by Shafer in Dwags 'six' (PTB \*d-ruk). But in 'dirt' we believe it is the WT which is innovative (PTB \*kriy). The following are further examples of WT *dr-* initials (see also 'odor' §3.3.3):

|        | Kt               | Bt (Ck) | (Cm)             | Mang | Dakpa             | WT              | Tam               |
|--------|------------------|---------|------------------|------|-------------------|-----------------|-------------------|
| ask    | dʌi-             |         | <sup>L</sup> ri- |      | bri <sup>35</sup> | <i>'dri</i>     |                   |
| sew    | dʌop-            |         |                  |      |                   | <i>'drub-pa</i> | <sup>4</sup> tʂup |
| abrade | <sup>L</sup> rut |         | <sup>L</sup> rut |      |                   | <i>'drud-pa</i> |                   |

For some WT *gr-*, we might suggest an older \*rg- parallel to 'hawk, vulture' (§3.1.2) as in the following:

|       | Kt  | Bt (Ck) | (Cm) | Mang | Dakpa            | WT           | PTam               | PTB     |
|-------|-----|---------|------|------|------------------|--------------|--------------------|---------|
| wheat | go  | go      | go   |      | ko <sup>53</sup> | <i>gro</i>   | *grwa <sup>4</sup> | ?*r-gwa |
| walk  | go- | go-     | go-  |      | ko <sup>53</sup> | <i>'gros</i> |                    |         |

Finally we may note a possible correspondence in the following: Kurtoep zowa 'lung' (WT glo-ba), zɛŋ 'flute' (WT gling-bu).

### 3.4 Liquids and glides

#### 3.4.1 Straightforward initial correspondences: Kt j, l, r ~ WT y, l, r

|         | Kt                | Bt (Ck, Cm)          | Dakpa                               | WT           | Tam              |
|---------|-------------------|----------------------|-------------------------------------|--------------|------------------|
| odd one | <sup>L</sup> ja   | <sup>L</sup> ja (Cm) |                                     | <i>ya</i>    |                  |
| above   | <sup>L</sup> ja   | <sup>L</sup> jawo    |                                     | <i>ya</i>    |                  |
| handle  | <sup>L</sup> ju   | <sup>L</sup> ju (Cm) |                                     | <i>yu-ba</i> | <sup>1</sup> ju: |
| right   | <sup>H</sup> je:ʔ | <sup>H</sup> je:ba   | je:ʔ <sup>55</sup> pa <sup>53</sup> | <i>g.yas</i> | <sup>1</sup> ket |

Some Bumthang w ~ WT y are also found:

|         |                   |                    |                   |            |                  |
|---------|-------------------|--------------------|-------------------|------------|------------------|
| to weed | <sup>L</sup> wer- | <sup>L</sup> wersa |                   | <i>yur</i> |                  |
| to be   | <sup>L</sup> wen- | <sup>L</sup> wen   | jin <sup>13</sup> | <i>yin</i> | <sup>3</sup> hin |

as may happen also after velars (see 'dog' and (possibly) 'sprain' §3.3.4).

For initial r see 'bone', 'horn' (§3.1.3, §3.2.1).

For initial l see 'body' (§3.1.3), and:

|       | Kt                 | Bt (Ck, Cm)        | Dakpa                              | WT             |
|-------|--------------------|--------------------|------------------------------------|----------------|
| blind | <sup>L</sup> loŋba | <sup>L</sup> loŋma | loŋ <sup>13</sup> pa <sup>53</sup> | <i>long-ba</i> |
| soar  | <sup>L</sup> liŋ-  | <sup>L</sup> liŋ-  |                                    | <i>lding</i>   |
| blade | <sup>L</sup> lep   | <sup>L</sup> lep   |                                    | <i>ldang</i>   |

(In WT *ld-*, *l* functions as the initial.)

### 3.4.2 Bumthang l ~ WT zh

The following words show the correspondence PTB \*l ~ Kt l ~ WT zh already observed in ‘four’ above.

|       | Kt                 | Bt (Ck, Cm)                         | Mang            | Dakpa                              | WT             | Dz                 | TGTM                    |
|-------|--------------------|-------------------------------------|-----------------|------------------------------------|----------------|--------------------|-------------------------|
| four  | ble                | ble                                 | bre:            | pli <sup>53</sup>                  | <i>bzhi</i>    | zhi                | Tam <sup>4</sup> pli    |
| bow   | <sup>L</sup> limi? | <sup>L</sup> li, <sup>L</sup> limae | <sup>L</sup> li | li <sup>13</sup>                   | <i>gzhu</i>    | <sup>L</sup> zhu   | Thak <sup>3</sup> tolen |
| field | <sup>L</sup> leŋ   | <sup>L</sup> leŋ                    | -le?            | leŋ <sup>13</sup>                  | <i>zhing</i>   | <sup>4</sup> zh’i: |                         |
| tasty | <sup>L</sup> lembu |                                     |                 | lim <sup>13</sup> po <sup>53</sup> | <i>zhim-ba</i> |                    |                         |

(See §3.2.3 for the vowel correspondence in ‘bow’, PTB \*d-liy.) This correspondence, which seems not to have been noticed, is a subtype of the Tibetan “palatalization of l- before y, i, or e” (Benedict 1972:33) (and in the word ‘iron’!), as in the following:

|        | Kt              | BT (Ck, Cm)       | Mang             | Dakpa                             | WT             | Tam                 |
|--------|-----------------|-------------------|------------------|-----------------------------------|----------------|---------------------|
| tongue | <sup>H</sup> li | <sup>H</sup> li   | ce               | le <sup>53</sup>                  | <i>lce</i>     | <sup>2</sup> le:    |
| flea   | lija            | <sup>H</sup> liwa | <sup>H</sup> liu | liu <sup>55</sup>                 | <i>lji-ba</i>  | <sup>1</sup> tanliŋ |
| iron   | la:?            | <sup>H</sup> lak  | cak              | lek <sup>53</sup>                 | <i>lcags</i>   |                     |
| heavy  | jit-            | jüt- (Cm)         |                  | li <sup>55</sup> po <sup>53</sup> | <i>ljid-po</i> | <sup>3</sup> li:-pa |

If we can draw conclusions from the very small set of examples above, it would seem that the conditioning of the differential treatment \*l > lj vs \*l > zh in WT might have been the presence/absence of a voiceless prefix, as reflected by the high/low tone of the Kurtoep reflexes. A Bodish branch prefixed \*s- could have led to high register on Kurtoep <sup>H</sup>l- as on nasal initials (§3.5.1). If this is correct, the WT evolution might reflect metathesis of the prefix rather than straight palatalization (cf. Beyer 1992:78).

### 3.4.3 Bumthang j ~ WT l < \*Velar + l (?)

One word, ‘brain’, has been noted with a kl initial in Bt (Ck, U) and Kt:

|       | Kt     | BT (Ck, U) | Cm                 | Mang             | Dakpa                             | WT             | Dz               |
|-------|--------|------------|--------------------|------------------|-----------------------------------|----------------|------------------|
| brain | klatpa | klatpa     | <sup>H</sup> latpa | <sup>L</sup> lep | la <sup>55</sup> pa <sup>53</sup> | <i>klad-pa</i> | <sup>2</sup> lep |

Except for this word, we have found no velar + l clusters in Kurtoep (and we have no others in Ck or U either). It might be suspected, however, that some of the not infrequent correspondences Bumthang <sup>L</sup>j- ~ WT l- reflect an old \*gl-:

|       | Kt                | BT (Ck)           | Mang              | Dakpa                               | WT         | Tam               | PTB | PBod (ours) |
|-------|-------------------|-------------------|-------------------|-------------------------------------|------------|-------------------|-----|-------------|
| road  | <sup>L</sup> jam  | <sup>L</sup> jam  | <sup>L</sup> lam  | lem <sup>13</sup>                   | <i>lam</i> | <sup>4</sup> kjam | lam | *g-lam      |
| sheep | <sup>L</sup> jo:? | <sup>L</sup> jo:? | <sup>L</sup> lo:? | jeŋ <sup>13</sup>                   | <i>lug</i> | <sup>4</sup> kju  |     | *g-luk      |
| work  | <sup>L</sup> ja:? | <sup>L</sup> jat  |                   | ple? <sup>13</sup> ja <sup>13</sup> | <i>las</i> | <sup>4</sup> kjat |     | *g-las/t    |

and perhaps:

|        | Kt                  | Bt (Ck, Cm)      | Mang             | Dakpa             | WT                  | Tam              | PTB       |
|--------|---------------------|------------------|------------------|-------------------|---------------------|------------------|-----------|
| hand   | <sup>L</sup> ja:?   | <sup>L</sup> jak | <sup>L</sup> la: | la? <sup>53</sup> | <i>lags</i>         | <sup>1</sup> ja: | lak=g-lak |
| ankle  | <sup>L</sup> joŋkor | tegoŋ (Cm)       |                  |                   | <i>long-bu</i>      |                  |           |
| manure | <sup>L</sup> jot    | <sup>L</sup> jot |                  | løŋ <sup>55</sup> | <i>lud</i>          |                  |           |
| to get | <sup>L</sup> juŋ-   |                  |                  |                   | <i>len-/long-ba</i> | <sup>1</sup> jaŋ |           |
| stand  | <sup>L</sup> jaŋ-   | <sup>L</sup> jaŋ | <sup>L</sup> lõ: | laŋ <sup>13</sup> | <i>ldang</i>        |                  |           |

The high-register tone in Tamang suggests the presence of an old prefix. The incorporation of the prefix in the preceding set (leading to Tam. kj- initials) blocked the tone-raising effect.

A final example of Bumthang <sup>L</sup>j- ~ WT *l*-:

|      | Kt                | Bt (Ck, Cm)       | Mang             | Dakpa                             | WT         | Tam              | PTB |
|------|-------------------|-------------------|------------------|-----------------------------------|------------|------------------|-----|
| five | <sup>L</sup> jaŋa | <sup>L</sup> jaŋa | <sup>L</sup> ləŋ | le <sup>31</sup> ŋe <sup>53</sup> | <i>lŋa</i> | <sup>4</sup> ŋa: |     |

Note that the WT prefix corresponds to a Bumthang syllable in this example, as in another number, ‘nine’ (Kt, Bt dogo, Mang dok, Dak tu<sup>31</sup>ku<sup>53</sup>, WT *dgu*).

### 3.5 Initial Series and Tones

#### 3.5.1 Nasals

Bumthang high-tone nasal initials, like those in tonal Tibetan dialects such as Lhasa or Dzongkha, correspond to nasals with prefixes (or superscribed letters) in WT. But only WT superscribed *s*- regularly corresponds to high register in Bumthang; other prefixes (including superscript letters), which regularly give high register in Tibetan dialects (e.g. tones <sup>H</sup>, <sup>1</sup>, <sup>2</sup> in Dzongkha), do so only sporadically in Bumthang:

|            | Kt                 | Bt (Ck, Cm)                          | Mang              | Dakpa                               | WT              | Dz                 | Tam                 |
|------------|--------------------|--------------------------------------|-------------------|-------------------------------------|-----------------|--------------------|---------------------|
| heart      | <sup>H</sup> neŋ   | <sup>H</sup> neŋ                     |                   | niŋ <sup>53</sup>                   | <i>snying</i>   |                    | <sup>1</sup> tiŋ    |
| nose       | <sup>H</sup> na    | <sup>H</sup> naphaŋ                  | <sup>H</sup> naba | nA <sup>53</sup>                    | <i>sna</i>      | <sup>H</sup> ha-pu | <sup>1</sup> na     |
| barley     | <sup>L</sup> na:?  | <sup>L</sup> nat                     | <sup>L</sup> neŋ  | nA <sup>?</sup> 13                  | <i>nas</i>      | <sup>3</sup> na:?  |                     |
| ear        | <sup>L</sup> na    | <sup>L</sup> na                      | <sup>L</sup> nül  | nem <sup>35</sup> ne <sup>53</sup>  | <i>rna</i>      | <sup>H</sup> namco | <sup>3</sup> naphi  |
| pus        | <sup>L</sup> na:?  | <sup>L</sup> nak                     | <sup>L</sup> no:  | (jaN <sup>13</sup> )                | <i>rnag</i>     | <sup>1</sup> na:?  | <sup>3</sup> na:    |
| dtr-in-law |                    | <sup>L</sup> naba, <sup>L</sup> nama | <sup>L</sup> nam  |                                     | <i>rnna-ma</i>  | <sup>2</sup> nam   |                     |
| sky        | <sup>L</sup> nam   | <sup>L</sup> nam                     | <sup>L</sup> nam  | nAM <sup>53</sup>                   | <i>gnam</i>     | <sup>2</sup> nam   | <sup>2</sup> nam    |
| pillow     | <sup>H</sup> ŋa:?  | <sup>H</sup> ŋas (Cm)                | <sup>H</sup> ñös  | ŋA <sup>?</sup> 53                  | <i>sngas</i>    | <sup>1</sup> hã:   |                     |
| blue       | <sup>H</sup> ŋokar | <sup>H</sup> ŋokar                   | <sup>H</sup> ŋœm  | ŋAU <sup>55</sup> po <sup>53</sup>  | <i>sngon-po</i> | <sup>2</sup> hoem  |                     |
| drum       | <sup>L</sup> ŋa    | <sup>L</sup> ŋa                      | <sup>L</sup> ŋa   | ŋA <sup>53</sup>                    | <i>rnga</i>     | <sup>H</sup> ŋa    | <sup>3</sup> ŋa:    |
| to cut     | <sup>L</sup> ŋa-   | <sup>L</sup> ŋa-                     | <sup>L</sup> ŋa-  |                                     | <i>rnga-ba</i>  | <sup>H</sup> ŋa    |                     |
| fry, parch | <sup>L</sup> ŋu-   | <sup>L</sup> ŋut-                    |                   |                                     | <i>rngud-pa</i> |                    | Gur <sup>3</sup> ŋo |
| medicine   | <sup>H</sup> man   | <sup>H</sup> man                     |                   | mAN <sup>53</sup>                   | <i>sman</i>     | <sup>H</sup> men   | <sup>1</sup> man    |
| insane     | <sup>H</sup> mju   |                                      |                   | ŋœn <sup>55</sup> pA <sup>53</sup>  | <i>smyo-ba</i>  |                    | <sup>1</sup> mjo    |
| wound      | <sup>H</sup> ma    | <sup>L</sup> maga                    | <sup>H</sup> ma   | mA <sup>13</sup>                    | <i>rma</i>      | <sup>H</sup> ma    |                     |
| hoof       | <sup>L</sup> mukpa | <sup>L</sup> mikpat                  |                   | ne <sup>13</sup> WA <sup>53</sup>   | <i>rmig-pa</i>  | <sup>H</sup> mip   |                     |
| dream      | <sup>L</sup> mimaŋ | <sup>L</sup> mimaŋ                   |                   | mi <sup>31</sup> pren <sup>55</sup> | <i>rmi-lam</i>  |                    |                     |

See also ‘silver’ (§3.1), ‘sun’, ‘day’ ‘name’ (§3.2.2), ‘get’, ‘swallow’ (§3.3.2) ‘buy’ (§5).

#### 3.5.2 Oral stops

As opposed to (native) Dzongkha and most Central Tibetan dialects, Bumthap dialects do not distinguish the reflexes of old prefixed vs unprefixed voiced stops. The reflexes of both are voiced with redundant low tone. (Or, as we explained earlier, if they are phonetically devoiced the compensatory low pitch is always present.)

There is a single exception to this rule: the old prefix \**s*- has devoiced and raised an initial \**g* to *k* with high tone in a few words:

|             | Kt    | Bt (Ck) | Mang    | Dakpa            | WT              | Dz                | PTB    |
|-------------|-------|---------|---------|------------------|-----------------|-------------------|--------|
| door        | ko    | ko      | gɔs     | kɔ <sup>53</sup> | <i>sgo</i>      | <sup>L</sup> go   |        |
| back        | ke:?  | kai     | ge:tshe |                  | <i>sgal</i>     | <sup>4</sup> ge:p | s-ga:l |
| hearthstone | kitpa | kitpa   |         |                  | <i>sgyed-po</i> |                   |        |

Many reflexes of WT *sg*- have initial *g*-, however, as Bt *gam*- ‘box’ (WT *sgam*).

The \**s*- prefix does not seem to have had a devoicing or tone-raising effect on a \**b* initial:

|       | Kt          | Bt (Ck) | Mang | Dakpa                              | WT               | Dz                | Tam                  |
|-------|-------------|---------|------|------------------------------------|------------------|-------------------|----------------------|
| frog  | beptaktakpa | baibai  | bɛ:p | bɛ: <sup>13</sup> pA <sup>53</sup> | <i>sbal-pa</i>   | <sup>4</sup> bɛ:p | <sup>4</sup> palpa   |
| give  | bi-         | bi-     | bji  | tɕi <sup>13</sup>                  | <i>sbyin-pa</i>  |                   | <sup>1</sup> pin     |
| a fly | braŋ        | braŋ    | brɔm | pɾA: <sup>53</sup>                 | <i>sbrang-bu</i> | <sup>4</sup> bjam | <sup>1</sup> naphran |

### 3.5.3 Clusters

In §3.3.4 we have seen three examples (‘thread’, ‘village’, ‘body dirt’) in which Common Bumthang \*kr- corresponds to WT low-register initials, but the correspondence is not systematic.

## 4. Some (apparently) non-Tibetan roots in Bumthang

Finally, we list in a separate table some Bumthang words for which we know no Tibetan cognate (or only a partial one); many have cognates elsewhere in TB.<sup>11</sup>

## 5. Morphology

As in Tibetan, there is some morphology at the interface between finals and suffixes or postpositions. This is most striking in verb roots, which fall into ten categories depending on the final consonant (zero, p, t, k, m, n, ŋ, r, l) of the root. The root forms given can not necessarily stand alone: for example <sup>L</sup>ŋak- ‘say, do’ cannot because word-final -k does not occur in Kurtoep (although it does in Bumthang). But this somewhat artificial form allows one to derive the occurring forms, in which some finals (-t, -k, -l in particular) are dropped before some suffixes. Roots ending in -al, -ol, -ul are invariably realized -ai(l), -oi(l), -ui(l), the -l appearing only in the imperative. Examples of Kurtoep roots and imperatives (the form which best preserves the finals):

| <i>final</i> | <i>root</i>        | <i>imperative</i>   | <i>gloss</i> |
|--------------|--------------------|---------------------|--------------|
| zero         | ku-                | kuje                | dig          |
| -p           | <sup>L</sup> rup-  | <sup>L</sup> rube   | help         |
| -t           | <sup>L</sup> mjot- | <sup>L</sup> mjotle | swallow      |
| -k           | blek-              | blege               | leave sth.   |
| -m           | dom-               | dome                | meet         |
| -n           | zon-               | zonle               | send         |
| -ŋ           | phjoŋ-             | phjoŋe              | extract      |
| -r           | sar-               | sarle, sale         | cook         |
| -l           | <sup>H</sup> mul-  | <sup>H</sup> muile  | sell         |

Not all apparent fronting diphthongs reflect final -l: <sup>L</sup>ŋwi- ‘buy’ (WT nyo-ba), with a velar cluster, has the imperative <sup>L</sup>ŋwije.

### Notes

<sup>1</sup> BM’s personal notes 1986. The Kurtoe and Chume material was rechecked by BM with informants in Kathmandu in 1993.

<sup>2</sup> Hodgson (1853) published a “Takpa” vocabulary of some 180 words based on a speaker from Tawang (WT rTa-wang). Sun et al. 1980 and Lu 1986 describe a very similar language under the name of Cuona Menba (WT mtsho-sna mon-pa); they mention two dialects, one in Mama commune, Lepu district, Cuona county, and the other further east in Wenlang commune, Deqing district, Motuo county. Both Chinese descriptions are based on the Mama dialect, but Lu also gives forms in the Wenlang (W) dialect, which is somewhat closer to Hodgson’s data. The forms which we will cite as Dakpa are Mama dialect forms from Lu and from anon. 1991. The low register tone noted as <sup>35</sup> in the former is transcribed as <sup>13</sup> in the latter.

<sup>3</sup> See also Nishida 1988. Aris (1979) has pointed out that the Dakpa language has no connection (at least at present) with the Dwags-po (pronounced <sup>L</sup>dakpo or <sup>L</sup>takpo) region of Tibet, as first suggested by Hodgson, or with its Tibetan dialect.

<sup>4</sup> Transcription of Kurtoep is as indicated in the next section. Transcription of Dzongkha is more orthographic and follows Mazaudon and Michailovsky 1988; in particular, y- is used instead of j- for initial *yod* (IPA [j]), and ue, oe represent IPA [y], [ø].

<sup>5</sup> Abbreviations for languages of the TGTm group are as follows: Tam = Tamang, Gur = Gurung, Thak = Thakali, Man = Manangba. In these languages, and in Dzongkha, the tones noted <sup>1</sup>, <sup>2</sup>, and <sup>H</sup> are high register; <sup>3</sup>, <sup>4</sup>, and <sup>L</sup> are low register.

<sup>6</sup> Some speakers interviewed in Kathmandu pronounced final -s but never -k. They also said ge:pa for 'back' (see table). Like our first speaker, they were originally from the Dungkar area. Never having visited Kurtoe, we cannot say whether such variation is geographical or the result of contact. All of our Kurtoe informants had spent time in monasteries and urban centers.

<sup>7</sup> Unless otherwise noted, all PTB reconstructions are from Benedict (1972).

<sup>8</sup> The underlying root vowel of this verb is *a*, as evidenced in the past and future stems; the present (citation form) undergoes a rounding rule (see e.g. Beyer 1992:164).

<sup>9</sup> All of our Kt speakers agreed on <sup>L</sup>mj- in this word, but our Kathmandu speakers had <sup>H</sup>nūt- 'insane' (§3.2.1), <sup>L</sup>nōŋ- 'get' (§3.4.3), and <sup>L</sup>nōt- 'swallow' where we had previously recorded mj- initials. In Cm, 'arrow' is homophonous with 'fish'.

<sup>10</sup>(?) Cf. 'turn' (§3.2.5).

<sup>11</sup>Tshangla is cited from anon. 1991 and Zhang 1986; Bahing and Limbu (East Himalayish) from our field notes.

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|             | Kt                    | Bt (Ck)                                     | Mang             | Dakpa                                   | Tshangla   | WT                  | other TB                          |
|-------------|-----------------------|---|------------------|---|------------|---------------------|-----------------------------------|
| house       | <sup>L</sup> me:ʔ     | <sup>L</sup> mai                            | <sup>L</sup> mε: | (chem <sup>53</sup> )                   | phai       | ( <i>khyim</i> )    |                                   |
| black       | <sup>L</sup> ñunti    | <sup>L</sup> ñeende                         | (nəkeʔ)          | (plε: <sup>13</sup> kAn <sup>55</sup> ) | (tɕhaŋlu)  |                     | ?Tam <sup>2</sup> mלאŋkai         |
| finger      | primaŋ                | primaŋ                                      | (dzumu)          | -priu <sup>53</sup>                     | -bruma     | ( <i>mdzub-mo</i> ) | Tam <sup>H</sup> primci           |
| rain        | <sup>L</sup> jöʔ      | <sup>L</sup> joi                            | <sup>L</sup> jö  | (naM <sup>13</sup> )                    | (ŋam su)   |                     | Thak <sup>2</sup> ju-wa           |
| mouse       | <sup>H</sup> ñija     | <sup>H</sup> ñiwa                           | <sup>H</sup> ñü  | (tci <sup>13</sup> pu <sup>53</sup> )   | (phijakpa) |                     |                                   |
| tear        | <sup>L</sup> mikpaliŋ | <sup>L</sup> mikpele                        | phre             | (mik <sup>53</sup> tshi <sup>53</sup> ) | miŋri      | ( <i>mig-chu</i> )  | Thulung plə                       |
| what?       | za                    | za  | ɕe               | (tsi <sup>13</sup> )                    | (haŋ)      |                     |                                   |
| who?        | e                     | ai  | ε                | (su <sup>53</sup> )                     | (?ibi)     | ( <i>su</i> )       |                                   |
| you         | wit                   | wet   | <sup>L</sup> ji  | ?i <sup>53</sup>                        | (nan)      |                     | Tam <sup>2</sup> ai               |
| foot        | tawa                  | tawa  | (kã:lep)         | (le <sup>13</sup> mεʔ <sup>53</sup> )   | (bi)       |                     |                                   |
| ant         | bruktila              | bruktula                                    | butil            | ʂuk <sup>55</sup> pu <sup>53</sup>      |            | ( <i>grog-ma</i> )  | Gur <sup>2</sup> nabbru           |
| old         | <sup>L</sup> manba    | <sup>L</sup> manba                          |                  | (kɔk <sup>13</sup> po <sup>53</sup> )   | manma      |                     | Sunwar maýt (<*man)               |
| ash         | bja                   | thapja (cm)                                 |                  | plA <sup>13</sup>                       | (thulu)    |                     | Tam <sup>1</sup> mephra, STC *pla |
| tooth       | kwa                   | kwa   | <sup>H</sup> wa  | wA <sup>53</sup>                        | ɕa         | <i>so</i>           |                                   |
| two         | zon                   | zon   | zön              | (nai <sup>13</sup> )                    | (ŋiktsiŋ)  | ( <i>gnyis</i> )    |                                   |
| smoke       | <sup>L</sup> mikun    |   |                  | me <sup>35</sup> kun <sup>53</sup>      | mu gu      |                     | Tam <sup>2</sup> mjuku, STC *kuw  |
| come        | <sup>L</sup> ra-      | <sup>L</sup> ra-                            | <sup>L</sup> ra- | rA <sup>35</sup>                        |            |                     | Bahing ra- ‘arrive’               |
| water leech | <sup>L</sup> lekpa    |   |                  |   |            |                     | Limbu la:kphet                    |
| walnut      | khuci                 | khacu?, khaʒik (Cm)                         |                  |   |            |                     | Limbu khe:sik                     |
| tail        | <sup>L</sup> mipaŋ    | <sup>L</sup> mipaŋ, <sup>H</sup> ñipaŋ (Cm) |                  |   |            |                     | Tam <sup>1</sup> me:, STC *r-may  |
| fire        | gami                  | gami  | gəm              | me <sup>13</sup>                        | mi         | <i>me</i>           | Tam <sup>1</sup> me               |

Table: Some Bumthang vocabulary