# THE TIBETAN SYSTEM OF WRITING

Roy Andrew Miller

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#### PREFACE

A grant from the Ford Foundation made it possible for the author to carry out field research in spoken Tibetan in Darjeeling, West Bengal, India, during the period September 1953 to March 1954. The materials presented in this study were collected during that period by working with Tibetan-speaking informants resident in that area. The pamphlet was completed in manuscript in the summer of 1954 and immediately accepted for inclusion in the publications series of the Program in Oriental Languages of the American Council of Learned Societies; but publication was not undertaken immediately because of the typographic difficulties, which were ultimately solved by the editor's lettering-in the Tibetan as well as doing the typewriter composition and editorial revision. The author was fortunate enough to be far removed from the scene of these labors, so that his first and last obligation with respect to the present publication consisted in reading the page-proofs. It was fortunately not necessary to undo any of the editor's changes, most of them minor, which on the whole improved the clarity of presentation as well as harmonizing this with another of my publications (see the note to 3.21).

The author's appreciation is also due to Professor Mary R. Haas, of the University of California, both for the original suggestion out of which this work grew, and for the training and encouragement which made its completion possible. Mention must also be made of the patience and cooperation of my Tibetan informants, without which my fieldwork in India could not have been carried out.

International Christian University Tokyo, Japan September, 1955 Roy Andrew Miller

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#### 1. PHONEMES AND SYMBOLS

- 1.01 The Tibetan system of writing is an alphabetic script on syllabic principles, based upon an Indic prototype, perfected in the ninth century, and since then used in Tibet for a variety of purposes. Though chiefly known to the Occident as the script in which the Tibetan translation and recension of the Buddhist canon has been transmitted, its use, both in the past and at the present time, is by no means restricted to the religious domain: it is the system of writing employed for any purpose for which a script is needed, from newspapers to billboards. 1.02 By omission and addition the Indic prototype upon which the Tibetan system was based, was adjusted to the facts of the Tibetan language of the time; but even today this same script still serves as an efficient and comparatively unambiguous method of writing even a language as far removed from ninth-century Tibetan as the dialect of Central Tibet has come to be. The present work is a synchronic description of the Tibetan system of writing, as it operates in present-day usage, with respect to this Central Tibetan colloquial.
- 1.03 Since it is a living language with which we are concerned here, and with the method by which it is customarily written by its speakers, we must begin with a skeleton statement of the phonemic system of Central Tibetan (CT).
- 1.1 CT has 44 segmental and suprasegmental phonemes, as follows:
- 1.11 35 segmental consonant phonemes (C): a voiceless unaspirated, a voiceless aspirated, a voiced unaspirated stop, and a voiced nasal, each, at the labial (p ph b m), dental (t th d n), palatal (t th d n), and velar (k kh g n) articulatory positions; the stops as just listed, but not the nasals, at the retroflex (t th d) position; the same, in palatal (ts tsh dz) and alveolar (ts tsh dz) affrication; alveolar (s) and palatal (s) spirants, both voiceless; glottal stop (?) and spirant (h), both voiceless; voiced and voiceless aspirated laterals (l l) and flaps (r f), and voiced labial (w) and palatal (y) semivowels.

b	d	$\mathbf{d}\mathbf{z}$	ď	₫	dž	g	
p	t	ts	ţ	<u>t</u>	t§	k	?
ph	th	tsh	ţh	<u>t</u> h	tšh	kh	
	ľ	s	ŕ		š		h
w	1		r	у			
m	n				ň	ŋ	

1.12 7 segmental vocalic phonemes (V):

- 1.13 2 suprasegmental features of tone (T): a high feature, here unmarked, and a low feature, here marked by a grave accent (`); thus: la [high tone], là [low tone].
- 1.14 The syllable of CT is of the shape CVT(C); that is, each syllable has one initial consonant-phoneme, one vowel, and one tone; but there may be one final consonant or none. There are no C or V clusters, nor does V ever appear without initial C.
- 1.2 The script uses the following 34 symbols:
- 1.21 5 double-value stop-consonant symbols:

Symbol Used to write

শ	k`	g`
5	t`	ď,
A	<b>p</b> `	<b>b</b> `
Ę	tā`	ďž`
Ę	ts`	dz`

[Unless tone-sandhi has operated (as it does in compounds: see 3.123 f), the tone is low in a syllable whose initial consonant is written with one of these symbols. The ambiguity with respect to voicing is cleared up by the use of prescripts or superscripts or both when the initial consonant is voiced: details in 2.113 ff.]

1.22 5 single-value stop-consonant symbols:

η	k	[Since our transcription indicates high
5	t	tone by writing nothing, in contrast to the `which writes 'low tone', the lack of accent-mark in this list is significant:
Ц	P	the use of one of these symbols for the initial consonant of a syllable positively
ক	tš	signifies high tone, and we indicate the
ৰ্ব	ts	same fact here by writing no further mark with our transcription of the stop.]

#### 1.23 5 aspirated-stop-consonant symbols:

[In CT, syllables beginning with an aspirated stop all have high tone; hence a single set of symbols will suffice for this series of consonants, while two sets are provided and used for the unaspirated-stop series to get a simple indication of phonemic tone, as listed above in 1.21 and 1.22.]

#### 1.24 6 continuant-consonant symbols:

Since these symbols are ambiguous as to tone, the tone of the syllable n` requires a different sort of indication. As remarked in 2.12, the favorite sort of tone-indication then is the use of m m` prescript and superscript letters, ň` called 'silent' because they signify no segmental phoneme nowadays, whatever থ 1` 1 their former or etymological value may have been (which is often questionable г` because of their new modern function). ]

#### 1.25 4 sibilant-consonant symbols:

#### 1.26 5 miscellaneous symbols:

#### 1.27 4 overt vowel-symbols:

i [The dotted rectangle here indicates the consonantal writing above (for i e o) or below (for u) which the vowel-symbol is placed; absence of any vowel-symbol spells 'a'. These five values may be altered by various conventions detailed later on; for instance, many e syllables lack any vowel-symbol, as if the vowel were a, and the e value is signalled by silent consonant-symbols written as finals; and by similar tricks the o and u symbols serve for ö and ü.]

1.31 The consonant-symbols are written so that they seem to hang from an imaginary line, which is to a great extent made into a real line of dots and dashes by the lining-up of the bars and dots which form the top part of the majority of symbols; the syllable-ending point (tsheg: 1.34) also falls in this line: ペロス・ススープ でして The last mark in this example is the sentence-final punctuation-mark. This particular sentence is extraordinary, for a sentence of such length, in not containing a single example of subscript or superscript writing. A consonant-symbol may be written below or above another consonant symbol. A symbol written below another is called a subscript. The two subscript symbols and are usually thought of as the abbreviated forms of the symbols \( \bigcirc [r] \) and \( \bigcup [y] \) respectively; they are common and important because they are the normal means of converting other symbols into symbols for retroflex or palatal consonants. Other subscripts and superscripts may be thought of as 'silent letters' which, whatever their etymological values may have been, today have significances ranging from zero to indication of tone or of voicing (as detailed below, beginning at 2.111). A few of the consonant symbols require a little practise to recognize when in subscript position; thus  ${f u}$  under  ${f m}$  becomes  ${f m}$ ; but in general these ligatures are not confusing, and at any rate, at least one example of each is given below. The symbol d, called wasur, usually spoken of as the subscript abbreviation of  $\mathcal{H}$ , has no function in the writing of the language, except for a few cases where it serves as a mater lectionis for the vowel 'a'. The spelling of words using it must therefore be memorized. Thus, Thot', but The 'salt', both phonemically tsha. 1.32 Symbols written above other consonant symbols are called superscripts. Thus  ${f N}$  superscript to  ${f M}$  gives  ${f H}$  . Note that  ${f T}$  in superscript position is slightly abbreviated to au, except above  $extcolor{9}$ ; thus  $extcolor{4}$ superscript to D gives A, but to B gives A. It is always the topmost consonantal symbol that hangs from the standard writing-line, no matter whether it is itself significant and has a subscript, or is on the other hand superscript to the segmentally significant consonant-symbol. However, no ambiguity is possible in the regular spellings: given a pile 💥 , the reader always knows (a) that x is always a superscript to what is under it, or (b) that z is one of a known set of subscripts, or else (c) that  $\mathbf{x}$  is a familiar arbitrary combination; see 2.1511 ff for the details.

1.33 In addition, a consonant-symbol, called 'prescript', with auxiliary significance or none, may be written before the initial-consonant spelling; and consonant-symbols called 'postscripts' may appear at the end of the syllable with auxilary significance or none. The sentence in 1.31 begins with a syllable spelled lgs with no overt vowel. Since 2 never is used as a prescript, it must be the initial-consonant spelling, and with no vowel overtly symbolized we read la(gs) or la(gs). Now the " s is clearly a postscript and is silent; but the A g is called a 'final' although it, too, is silent in this word: là. The last syllable of the sentence has a silent final  $\zeta$  d with the auxiliary function of indicating that the vowel-sign w stands for o rather than o. The fourth syllable is the only one with a prescript in this sentence; the fact that  $\mathbf Q$  is prescript is obvious from the placement of the vowel-sign below the true initial consonant-symbol, and the syllable is to be read as thun with final  $\Gamma$  pronounced as usual: it is not one of the list of silent finals. 1.34 Each written syllable is followed by a written point, called and tsheg, which falls on the writing-line from which the consonant-symbols depend; it is customarily written (although we do not follow the custom) after any consonant-symbol or sequence of symbols cited in discussion or listed or used (as we use A, B, C, &c) as sequence-labels instead of numerals, and so on: in short, it is not customary to write a consonantsymbol before an open space without insulating it with at least a tsheg. In text, the tsheg may be thought of as a single symbol writing the several junctures of the language, but its only practical significance is that it cuts the syllables apart for the reader and enables him to spot the prescripts and postscripts. The conclusion of the longer grammatical units of text is marked by a vertical rule, called  $\begin{subarray}{c} \begin{subarray}{c} \begin{su$ is doubled after the longest grammatical units, where it corresponds roughly to sentence-final open juncture and phrase-final melody. It may be written four times [ ] [ ], for example at the end of a chapter; and in poetry two rules end each verse. See the text below, 4.

#### 2. BASIC PRINCIPLES OF SPELLING

2.1 Initials are written either by the use of simple symbols, as A'kha 'mouth', or by combinations of symbols, as A' dà 'hundred'. Note that since, as stated above, CT has no consonant clusters, any combination of consonant symbols in initial (or final) position represents simply a single initial (or final) consonant-phoneme. Since tones are indicated by the particular method employed to write these initial phonemes—by choosing among spellings which would represent the same consonant-phoneme—the writing of tones may most conveniently be treated together with that of the initials themselves.

#### 2.11 Stops

- 2.111 In general, voiceless stops followed by low tones, i.e. k`t`p`tš`ts`t`t`, are written with the double-value stop-consonant symbols used without prescripts or superscripts, k`t`p`tš`ts` being written by the symbols \(\Pi\), \(\Pi\), \(\Pi\), \(\Pi\), alone, while t` is written by any of \(\Pi\), \(\Pi\), or \(\Pi\) with subscript, thus: \(\Pi\). This general principle, of writing the retroflex stop consonants with consonant symbols plus subscript, and the palatal consonants with consonant symbols plus subscript, applies throughout below, and will be cited hereafter simply as Rule One.

ditions of tone-sandhi, i.e. g`d`b`dz`dz`d`d`, are written with the double-value stop-consonant symbols used with prescripts or superscripts or both, and with the necessary subscripts according to Rule One (2.111), e.g. DDQ'gà, DD'dà, DE'dzà, etc. Hence the designation 'double-value consonant symbols' for D, D, E, E, since they are also used (without prescripts or superscripts) to write the voiceless stops of CT (2.111).

2.114 The aspirated stops kh, th, ph, tsh, tsh, th, which are always accompanied by the high tone (unmarked in our transcription), are written with the aspirated-stop consonant-symbols [4, 7], 43, 5, T, with the necessary subscripts according to Rule One, so that th has the three normal spellings [3], [3], [4], and [4] is written [5]. Here again (as in 2.112) prescripts and superscripts make no difference. 2.115 The \_ subscript with labial-stop symbols gives alternate symbols for palatal affricates (not, as might be expected, stops t etc.), thus: \( \mathreal p^\), \( \mathreal t\) t\( \mathreal \), \( \mathreal t\) t\( \mathreal t\), \( \mathreal t\), \( \mathreal t\) t\( \mathreal t\), \( \ma symbols for these three in 2.111, 2.112, and 2.114 respectively. And M m plus e gives h ñ, an alternate to h ñ (2.12 below). 2.12 The continuants n n m n l r are written with a single set of symbols which, unlike the stop-symbols, have no tone-implication; and here the use of prescripts and superscripts makes the difference between high and low tone, instead of signifying voice (as in 2.113) or nothing (2.112 and 2.114). With low tone there is no prescript nor superscript: 口 n`, 式 n`, 以 m`, 为 (or 云: 2.115) n`, 以 1`, 工 r`. Any prescript or superscript signifies high tone instead. Subscript \_ here is rare, and unrelated to the pronunciation.

2.13 The sibilants s and s with high tone are written s, sq s; with low tone  $\exists$  s`,  $\bigcirc$  s`; and prescripts and superscripts have no effect.

2.14 The voiceless lateral I and flap f, the glottal stop? and glottal spirant h, and the semivowels w and y, are written in a variety of fashions, the most important of which are listed below. Note that I and f are always accompanied by high tone. The most usual writing of h is so, and the tone is not indicated. The same symbol with subscript is the usual spelling for the voiceless flap: so f. On the other hand, the so h is itself subscript to sull in the usual spelling for the voiceless lateral: I The usual symbol for ? is so, but the tone is not indicated (as with h); and in addition, several combinations of other

consonant-symbols are used to spell? (2.421). Besides its proper symbol  $\mathcal{H}$ , w is written with the double-value labial stop symbol  $\mathcal{H}$ , especially in grammatical morphemes (3 below) but also in a few full words (2.413); no simple rule for the tones can be stated. The usual writing for y is  $\mathcal{H}$ , and for y [high tone] is  $\mathcal{H}$ , but others are found (2.517).

2.15 The prescripts, superscripts, subscripts (and postscripts: 2.5), wherever the above statements allow for variety in the writing of one and the same phonemic shape (and that is in nearly every detail), just have to be memorized word by word; there is no rule to guide in their usage. The following lists give the various combinations of initial consonant symbols used, and the initial consonant phonemes symbolized by them. In conformity with Tibetan practise, we read each spelling with the vowel a, the vowel that is normally indicated by absence of overt vowel-symbol. Most of these are genuine Tibetan syllables; every one would be, given appropriate vowels and finals. Here 'à' means that this initial-consonant spelling implies low tone. Plain 'a' of course normally means that high tone is implied by this initial-consonant spelling; but see 2.14 for the possibilities of ambiguity with the 'miscellaneous' initials.

2.1511 7 symbols with subscript  $\mathbf{u}$ : 1  $\mathbf{U}$  ta, 2  $\mathbf{U}$  tha, 3  $\mathbf{U}$  tà,

45 tša, 59 tšha, 65 tšà, 73 nà.

2.1512 11 symbols with subscript  $\sim$ : 1  $\square$ , 2  $\backsim$ , 3  $\backsim$  ta; 4  $\backsim$ ,

5 \$\empty\$, 6 \$\mathcal{U}\$ tha; 7 \$\empty\$, 8 \$\empty\$, 9 \$\empty\$ tà; 10 \$\mathcal{U}\$ sa, 11 \$\empty\$ fa.

2.1521 6 symbols which may appear superscript to  $\mathfrak{A}$ :  $1 \prod_{i=1}^{n}$ ,  $2 \prod_{i=1}^{n}$ ,

3日,4日,5 Nla; 6 킖 dà [N.B.!].

2.1522 15 symbols and combinations which may appear with K super-

script: 1所 ka, 2页 ta, 3页 gà, 4页 dà, 5 产 ŋa, 6 芒 džà; 7 秀,

8 5 xa; 9 5 ta, 10 5 dà, 11 f na, 12 占 bà, 13 和 ma, 14 长 tsa, 15 亡 dzà.

2.1523 10 symbols which may appear with A superscript: 1 11 ka,

2 円 gà, 3 巴ŋa, 4 号 tša, 5 巴 džà, 6 号 ta, 7 号 dà, 8 円 pa, 9 凸 bà, 10 兴 r.

```
2.1524 21 symbols and combinations which may appear with 📢 super-
15점 tBa, 16점 bà, 17됨 dzà; 18닭, 19뒭 ma; 20딝 ña, 21왕 tsa.
2.1531 Il symbols which may appear with prescript 口: 1 口太 tša,
2 四3 ña, 3 四5 ta, 4 四5 dà, 5 四天 na, 6 四天 tea, 7 四月 Bà,
8 미크 ва, 9 피씨уа, 10 피역 ва, 11 미진 ва.
2.1532 15 symbols and combinations of symbols which may appear with
prescript ζ: 1 ζ Μ ka, 2 ζ Ψ ta; 3 ζ Ψ , 4 ζ Ψ ta; 5 ζ Ψ gà,
6 【 Д dà; 7 【 Д , 8 【 Д фà, 9 【 Гла, 10 【 Д ра, 11 【 Д tВа,
12 C wa or ?à, 13 C ya, 14 C ma, 15 C h ña.
2.1533 45 symbols and combinations of symbols which may appear with
prescript 口: 1 口川, 2 口雨, 3 口锅 ka; 4 口口, 5 口 面,
6 다 됨 gà; 7 다 근 , 8 다 된 ŋa; 9 다 5' , 10 다 등 , 11 다 끈 ,
12口包 ta; 13口气,14口气,15口巴,16口包,17口高 dà;
18日子, 19日望 na; 20日云, 21日云, 22日史 tea; 23日芒 dzà;
24 口石 tēa, 25 口芒 džà; 26 口川, 27 口查, 28 口殼 ta;
29世四, 30 口西, 31 口智 dà; 32 口秀, 33 口对 fia; 34 口们,
35 디 및 ṭa; 36 디 및 , 37 디 및 ḍà; 38 디 진 , 39 디 팅 #a;
40 口马 sà, 41 口勺 ša, 42 口內 šà; 43口川, 44口品, 45口以la.
2.1534 15 symbols and combinations with prescript 👪 : 1 👪 🎵 kha,
2 以臣 tha, 3 以口 tha, 4 以口 gà, 5 以口 dà, 6 以口 dà, 7 以口 ŋa,
8 H 表 t šha, 9 以 氏 džà, 10 以 y ňa, 11 以 日 tha, 12 以 て dà,
13 刃 na, 14 刃 表 tsha, 15 刃 氏 dzà.
2.1535 19 symbols and combinations with prescript \mathbf{q}: \mathbf{1} \mathbf{q} kha,
2月日 tha 3月日, 4月日 tha; 5月日 gà, 6月日 dà; 7月日,
839,935 dà; 10 35, 11 34 tšha; 12 3E, 13 34 džà;
14 7 2 tha, 15 3 5 dà, 16 3 4 pha, 17 3 4 bà, 18 3 5 tsha, 19 3 5 dzà.
```

#### 2.2 Vowels.

- 2.21 The vowel a is written covertly, by using any consonant-symbol or any of the above combinations of consonant-symbols in syllable-initial position, without any of the overt vowel symbols. The vowel a is thus commonly said to be inherent in all the consonant-symbols.
- 2.22 The vowels i, o and u are written overtly, by using respectively the symbols , , and , the first two as superscripts to, the last one as a subscript to, that consonant-symbol (or combination with subscript or superscript or both) which spells the initial consonant of the syllable: that is, not with its prescript if there is any. This placement can therefore occasionally distinguish between words: \( \) ton, but
- 2.23 The vowel e is written either with the overt symbol as a superscript to the initial-consonant spelling, or else by adding, in written syllable-final position, either the symbol or the symbol to a spelling without overt vowel-symbol (which would otherwise signify the vowel a: 2.21); in this case, the symbol has a double function, writing not only the vowel e, but also the final consonant n, while in this position is 'silent'. Note also that when i and e are written with the overt symbols and the additional writing of (or in 2.24) in written syllable-final position is unrelated to any feature of the language.
- 2.24 The vowels ö and ü are written in various ways, all of which consist in principle of a modification of an o or an u, respectively, written as above, by writing an additional consonant-symbol immediately following the initial-consonant spelling with its or . These consonant symbols may be \( \zeta \), or \( \zeta \), in which case their only function is to write, in conjunction with the symbols or \( \zeta \), the vowels ö or \( \vec{u} \), or the symbol \( \zeta \), which then has a double function: writing the final n as well as indicating that the vowel is ö or \( \vec{u} \). Additional specialized ways of writing e, \( \vec{v} \), and \( \vec{u} \) are dealt with in 3.14 below.

#### 2.3 Finals.

2.31 Final b, g, m, n, n are written with  $\square$  or  $\square \bowtie$ ,  $\square$  or  $\square \bowtie$ ,  $\square$  or  $\square \bowtie$ , and  $\square$  (see 2.24 for the effect of final  $\square$  upon vowel-readings). Final r and 1 are written with  $\square$  and  $\square$  (but see 2.24 for the effect of final written  $\square$  [normally silent] upon vowel-read-

phemes ending in thank to are concerned: such forms often have parallel forms, used in free variation, of the shape -ul, -ur, and -ol, -or, e.g. Whyth or yill in free variation 'country'). Final s, rare in CT, is spelled irregularly: 3.26 (written is silent: see above).

2.32 Certain syllables with the vowel a and no final consonant-phoneme are written with a final the initial-consonant phoneme of the syllable and another consonant-symbol before it must be a prescript: What 'sky', and if the initial-consonant symbol is one that could also have been a final-consonant symbol (2.31) ambiguity has been prevented by this device: That the consonant symbol (2.31) ambiguity has been prevented by would have been used if possible, so that the cannot be gat (see above, 2.22, for the absence of ambiguity with other vowels than a).

ings; there is a certain amount of free variation in CT as far as mor-

2.4 The regular operation of the above stated basic spelling principles is shown by examples below, arranged so as to display first (2.411-.421) the spellings for initials and tones and incidentally the related final consonants, and then (2.51-.54) the spellings for vowels and final consonants. The lists here show all the phonemic contrasts of CT in regular spellings (thought not with all possible prescripts, subscripts, and superscripts: 2.1511-.1535); irregular spellings, especially those required in certain form-classes, will follow thereafter (3.).

#### 2.411 Velars.

#### 2.412 Dentals.

taŋ	75C	'spend, send'	tag	덝미.	'tiger'
thaŋ	SIC.	'a plain'	thag	र्श्रवाः	'spider web'
dàŋ	월다.	'meet expenditures'	dàg	चर्वा.	'I'
	•	'horse'		₹.	
tà	<b>Ś</b> '	'now'	nà	र्ज्,	'if'
tha	मध्य	'border'	naŋ	मात्र ८	'give'
dà	N53'	'arrow'	nàŋ	<b>35</b>	'house'
		'arranging'	ŋön	ह्ये न'	'previously'
ŋàndzo	८.₹.	'we'	dùn	यदं द	'seven'
tshei	∾ মহ্হ্ৰ'	'night'	lèn	भर्'	'reply'

#### 2.413 Labials.

pö	सुरा.	'incense'	pha	4.	'father'
рò̀		'Tibet'	bà	303	'witch'
	1	'son'	ma	<b>丸</b> '	'wound'
	35.		mà	H'	'not'
piwaŋ	J.AC.	'guitar'	nam	¥NN.	plural marker
	707.		ňam	ม่วม.	'along with'
wòmba	वेतुःयः	'deaf'	làm	지지.	'road'
ΰw	35'	'light'	<b>ḍà</b> m	२ प्रम	'near to'
šàb	विषय.	'foot'	šabšub 1	1907 YOU	whisper'

#### 2.414 Dental affricates.

tse 🚼'	'mountain peak'	ts8 \$5.	'discuss'
tshe	'life'	tsho Nat.	'lake'
tsar 天弋	'to the root'	tsan 太下	'consequently'
tshar &T		tshan &C.	
ŋàndzö 🕻 🕳 🎖 (3.14	,.24) 'our'	tshom LH'	'be annoyed'
tšhandzò Yal'NE	(3.21) 'treasur	er' dzòm ĄĘ	NU 'be assembled'

#### 2.415 Palatal affricates.

tēè 夏仁	'do'	tšhe	मक्रे'	'tusks'
tea J'	'bird'	tBaŋ	兴口'	'willow'
tāha 🎝	'speech, portion'	tšhaŋ	Š۲.	'beer'
dza NEU'	'visit a superior'	džaŋ	発に47	'acquire'
tilu 🎞 🦉 🖰	'ten'	t≣ùŋ	AL.	'become'
tšhu 🚡	'water'		<b>美</b> 仁'	

#### 2.416 Retroflex stops.

ta 剂	'hair of head'	ធ អ៊ីហ.	'incarnation'
ţà IJ	'monk'		'bathe'
dà Zŋ'	'en <b>e</b> my'	qu 量D'	'snake'
to 1	'Chumbi Valley'	tag 日口'	'heal'
क उन्तु	'go'	thag [AD]	'blood'

#### 2.417 Palatals.

te 通知'	'born'	the Et 'you'
# BZ'	'happy'	yab DWD' 'to fan'
thi B	'dog'	yab WII' 'father'
क व्री.	'of'	yib 乙基四代'figure'
मा पारेस	'two'	yintan Wayuc'but still'

#### 2.418 Sibilants.

so	XY.	'tooth'	8a 19'	'mushroom'
68	Ĭ.	'eat!'	sà 9	'hat'
ser	पाक्षर:	'gold'	Bi 19	'death'
sèr	₹.	'say'	क्ष मिन्न	'four'

#### 2.419 Laterals.

10 मी	'cough'	la A	'wage'
18 21.	'year'	1à 121.	'mountain pass'
10 m	'south'	ta B.	'god'

lèn na,	'answer'	ten BJ	'a patch'
	'lie down'	•	'palm of hand'
rlril Lau.La	"'round'	ge1 प्रयोगः	'place, put'

2.420 Flaps.

2.421 Glottals.

- 2.5 Next we may inspect the following examples of spellings of vowels and finals, arranged, unlike the lists immediately above, by spellings; these, together with the examples presented above, complete the presentation of the regular operation of the script.

ாட் : திட'குடு' niŋrù 'diligence', siŋmò பிட'ப்' 'daughter'; "Ч: talba Д Ч'boy, child', tai है "'recognized as'. 2.53 [[다, [[다, [[다시, [[다시, [[다시, [[다시 ப் dub பி பி பி 'attaining (to rank, degree)'; பி thug இபி 'noodles', lobthug 없다'년미''student'; 교리지: tshodilg 최대한다다 'catechetical examination'; பி: sum புதுபு'three'; பட்ட: தம்ற ПЕ 'saying'; IN: bù CDU' offer', rùru JU'JU' rotten', fufu 与いりは'ragged, threadbare'; 過知: tù りは'time, when'.
2.54 こ, かれ, ある, よ、 る. 一て: sè 四角で'being afraid of', tseまて''play', džè 口言て' 'forget'; ें मुख : sem द्याप्रभ"mind'; ें द : tehen केंद्र 'great'; ें र : ther 기원자 'carry'; 교생: ňèba う전'니'punishment'. 2.55 日, 气, 何, 何好, 知, 知, ず, 气, 似. וות : lobpon אָם 'נְעָלֵלְ' 'teacher (especially in spiritual matters); 一大: tšhötsö 美似美大''religious discussion', nödzin 可美大岩大' अँग 'life'; निस : matog म र्ग प्र' 'no more than..., nothing but...'; "H: dòm qtu''penis'; "NN: dzòm qtu''be assembled'; "A: non AT' 'previously'; "E: khon PE'he'; : tšho XX''religion, esp. the Buddhist dharma; book; sermon'.

#### 3. SPECIAL AND IRREGULAR SPELLINGS

- 3.0 In 2. above we have seen the basic conventions by which the symbols of the Tibetan script are employed to write the language. Now we must consider certain exceptions to these principles, some completely or fairly consistent writings for a particular form-class, others covering only a few words or a single word.
- 3.1 There are important orthographic exceptions to 2. for certain form-classes.
- 3.11 The tautological noun-extender -pa  $\infty$  -bà  $\infty$  -wà is said to be properly written U'after  $\square$ ,  $\square$ ,  $\square$ ,  $\square$ ,  $\square$ , and  $\square$ , and elsewhere  $\square$ '; and the actor-suffix -po  $\infty$  -bò  $\infty$  -wò and the tautological adjective-extender -po  $\infty$  -bò  $\infty$  -wò are similarly said to be properly written  $\square$ 'after  $\square$ ,  $\square$ ,  $\square$ ,  $\square$ , and  $\square$ , and  $\square$ 'elsewhere; but in current usage these orthographic conventions are not well observed, as the examples will show. Note that, as stated below (3.221), it is the basic form of the preceeding morpheme that is written before these suffixes and extenders. Thus: làgpa  $\square$  \(\mu'\) 'hand', gèmba \(\mu\) \(\mu'\) 'senior in age or rank', gònba \(\mu\) \(\mu'\) \(\mu'\) 'anger', dìba \(\mu'\) '\(\mu'\) 'the [plural]', thibà \(\mu\) \(\mu'\) 'a living incarnation (of someone)', mùtowà \(\mu'\) '\(\mu'\) 'a beggar', dàwa rìmpotshe \(\mu\) \(\mu'\) '\(\mu'\) 'guest', dùgpo \(\mu'\) '\(\mu'\) 'suffering', mànbo \(\mu'\) '\(\mu'\) 'many', bàwo \(\mu'\) '\(\mu'\) 'male witch', dàbo
- 3.12 The numbers of CT constitute a form-class characterized by a great deal of morphologically determined morpheme-alternation. The spellings for this set of forms are full of irregular features.

3.121 Units.

'Ten' is the or thuthamba 'A T'U'. The form thamba 'and no more' may be added at will to the expressions for 10, 20, 30, 40, 50, 60, 70, 80, and 90; it is in each case written the same.

#### 3.122 Tens.

Here note the complex shape of the morpheme for '10', and its spellings, especially in '15' and '18'.

3.123 Decades. In each decade, the multiple of '10' is formed by prefixing a simple decade-morph to an allomorph of tsu '10', with the optional addition of thambà (3.121). The simple decade-morphs are:

Here the allomorphs of '10' are: Su g'with '20', elsewhere tsu throughout, but this tsu is written g' in '30', '60', '70', '80', and in '40', '50', '90', i.e. where the simple decade-morph has a final b.

In each decade, the numbers from the first to the ninth place, e.g. '41' to '49', are formed by prefixing to the units a secondary decade

morph. These secondary decade morphs, and the numbers for which each allomorph is found, are:

70: tồn 云云' 80: dà 囗' 90: kò 즈

(The units morphs of 3.121 are used with one alteration: after a low-tone secondary decade morph, the units morph has high tone.) Paralleling the -thambà extensions of the simple multiples of '10', these compound numbers have alternate longer forms with the simple multiple prefixed: '4' \$1, '9' gù, '40' \$1bt\$u or \$1bt\$uthambà, '49' \$2rgu or \$1bt\$utergu.

3.124 Each number from '20' to '99' has short and long forms in free variation according to the pattern just shown. Typical short forms are:

3.126 The numerals are 17, 23, 33, 45, 57, 65, 70, 86, 98, 00, used exactly as we use ours: 10 10, 1945 1857.

3.13 Verbs. The verb morph itself is written regularly, according to the statements in 2., but in the writing of the various aspect particles suffixed to this morph, the following spelling conventions are observed: The imperfective aspect marker -gl is written after 5, A, and N, but D'after D and C, and open syllables, and D after Z, Z, I, and 11. The perfective aspect marker -Cà co -bà is written T'after T, I, and [1], and open syllables, elsewhere 41, regardless of pronunciation; but again, these last rules on the usage of I and I are not always too closely followed today. Thus we have serra-, in free variation with the assimilated form sera-, both written at' 'said', and similarly tsharrà- alongside tsharà- XXII' 'finished'. In artificially slow literary pronciation, these are serwa- and tsharwa-, hence the spellings. Note also pobbà- ムロッ 'shook down', tannà- ロローロー 'sent, spent', naŋŋà- 미국다'다''gave', dùbba-디볼디지'니' 'acknowledged to be of a certain grade of sanctity', haleba- 5'03'U'astonished'. The iterative marker -gin ... -gin is spelled # after Z, D, and 집, but 미국'after 미 and C and open syllables, and 민국'after 국, 以, 又 and 以, in every case repeated twice, thus: phugin tshalgin 건의면국 역표 기계국 "making offerings and bowing down over and over', tagin tagin 얼'려국'일'려국' 'looking again and again', nùgin றugin துபி துபிகு 'crying and carrying on'. The verbal auxiliary dò 'to be about to perform (the action indicated by the head of the construction)' is spelled in a wholly irregular fashion: 414; thus: lebdò ਧਲੇਰਕਾ.ਹੀਸ਼ਨਾ. about to reach (somewhere), phudò प्रमाण 'about to take off flying'. The verbal referent marker -bì ∞ -wì is written with UR'or DR', with U and D alternating as indicated above, thus: pobbitšhirdù an un un un order to shake down (some fruit)', dowidopa スቯ'고ቪ'スズンン' 'the desire to '(he) did not give the order to arise (from a prone position)'.

- 3.14 The nominal referent marker in CT is of a curious shape: after consonants:  $[+\mathfrak{gl}^{m,n,r,l,b} \sim +\mathfrak{gl}^{g,\eta}] \sim \text{after vowels: } [(>e \sim +v)]^a$  $\sim (+y^1 \otimes +\underline{t}i)^{i,e} \sim > u^u \sim (>0 \sim +y1)^o \sim +\underline{d}i^u \sim +\underline{t}i^{\delta}].$  This marker is written mafter Z, I and U, but m'after Z, I, and N, and after [ and [ ; after open written syllables, i.e. those ending in no written consonant symbol, 2 is added, but if Q already is written in this position, a is simply added to it as a superscript. The actor marker, which in CT serves as a formal mark dividing the verbs of the language into two form-classes, those requiring its presence as an overt marker of the actor-expression in predications in which such verbs are involved, and those requiring its zero counterpart, is identical in shape with the above after consonants; after vowels it appears as  $\sim [>e^a \otimes p^i, e \sim > u^u \sim > b^o \sim + \underline{d}l^u \sim + \underline{t}i^o]$ . It is spelled as the nominal referent marker is, but with the addition of &, thus: M&', etc., and in written syllables ending with R, this R is replaced by R, and in written syllables ending in no consonant-symbol, the X is added as a final written consonant-symbol. The locative marker dù is written 5' after and I, otherwise regularly 5.
- 3.2 In addition to the above orthographic conventions for certain form-classes, the fact that the writing system makes no provision for recording certain important morphological processes of the language leads to more irregularity.
- 3.21 There are a considerable number of morphologically determined morpheme alternants in CT, covered by spelling-conventions by which the script represents only the shortest and simplest of two or more related morphs no matter which one occurs in the colloquial forms. Thus the secondary decade-morpheme for '30' is always written ''so' no matter which of the four morphs so, so, sob, sor actually occurs. The same is true of many common words in other segments of the vocabulary as well. The following list gives some of the most important words of this sort. In many groups, the leading form, matching the spelling, does not occur in CT colloquial at all, so that the meaning given is literary or even hypothetical; but the other forms are actual:

ka ППС' 'word, order' co kab- [kabdon ППС ПДС 'a rebuke'] ω kan- [kandùr ΔΜς, QΞζ 'Kangyur' (section of the canon), kandl पात्र तर्दे 'a request'] co ka- [kadû 'a chastisement']. ku 및 'body' co kumdun 및 '시5주' 'presence' co kunda 및 ' 'wife' w kurdàb 朔 '天口' 'prone' w kundzàm 朔 '山あいい'place where a lama customarily meditates' co kudin 357' 'kindness'. gè \( \bar{\alpha} \) 'virtue' \( \omega \) gènden \( \bar{\alpha} \) 'Virtue-Possessing' (PN). gò H' 'door' co gòndža H'HUN' lock on a door'. kha П''mouth' co khablòg П'ДП''prone' co khamdžù П'ЦБ''legal case' co khalèn 'a mock fight'. ŋà C'I' co ŋàndzo C'X''we'. ta 号 'horse' co tabdùg 号道句' 'horse race'. tè T' 'that' oo tènda vo tìnda T'75' 'like that'. to a 'food' oo tobtse a a 'food, article'. tà ζ' 'now' co tànda ζ'μ' 'now'. nà 天' 'clothes' c nàmsa よつコス' 'clothing'. tBhag Yal' 'hand' oo tBhandl Yall' 'small knife', tBandzò युपाभहिंद्'treasurer'. pho Z'' 'palace' co phobdan Z' 🗓 C' 'palace'. mè l''fire' oo mènda l'UZZ'gun'. sa W''earth, place' co sandzam W'UZUW''boundary'. là 21' 'mountain pass' co làbtsigàn 21'4' TICN'a place-name. ro ஜீ' 'south' ம fobdag ஜூபுபு''Southern Rock' [place-name]. ni 3' 'sun, day' oo ninsarla 9'49I'll''at sunrise'. Certain other irregular features in the writing of some of these words will be discussed immediately below, and others have already

been mentioned above.

3.22 The script has no provision for writing assimilation, dissimilation, apocope, voicing and deaspiration, or tone-sandhi, all of which are important processes in CT. In all cases where these phenomena have taken place, and it is possible, by the usual methods of morpheme analysis, to establish a basic form, it is this basic form that the script writes, and not the end result of the phonological process. In other, cases, where lack of the subject form in certain critical environments makes establishment of a basic form impossible, the irregular writings are of the same type and may safely be assigned to this category. We have already met a few cases of such writings above, in the course of other examples; more are given below, and others in the text (4.).
3.221 Vocalic assimilations.

The change of öü to o u before -b -w of the verbal perfective

- 3.223 Dissimilation is rare, e.g. yùrla for yùlla [12] '[12] 'to a country'.

  3.23 Apocope: tsumò < tsummò < tsummò < tsummò < tsummò < tsummò < simmò < simmò
- 3.24 Voicing and deaspiration of a voiceless aspirated initial stop when in second position in a compound, i.e. following close juncture, is frequent; and again, there are many writings which, although no free form with voiceless aspirated initial can be established by synchronic analysis, can be assigned here with high probability. There are examples above, e.g. nàndzo (2.412), compare thendzò (3.412) 'you [pl.]'. Thus we find kàdzō (3.412), compare thendzò (3.412) 'insistence' and 'measure'; and spellings like 'udzùg (3.412)' 'insistence' and

ramdžòg LNLI' car', with the low tone normal in voiced-stop syllables contradicting the high-tone implication of the aspirated-stop symbols. Here also may be mentioned some expressions in which the usual pronunciation has a voiced initial in the second member, where the careful literary pronunciation has a voiceless initial, in both cases with low tone; the writing is based on this second artificial pronunciation: södžà co sötšà LNI'E' 'tea', tshedžà co tšhetšà E'D' 'toy'.

3.25 Tone-sandhi, of which we have seen many examples above, and others of which will be found in the text below, is not written. Thus each syllable is written with the tone it would have in isolation, again with the methodological limitations on this statement mentioned in 3.22 above.

3.26 Finally, there are a certain number of simply irregular spellings; some of these might also have been included, for certain of their details, in the lists above. The most important of these irregular spellings, especially as they appear in common words, follow here:

?utshub て日内はあ口'(be choked')
kandò 所に'辺口'(lame, halt')
kànla 口に'辺'(what for')
tùndo てい口'(a whip' for ちついつ 'horse's goad' (3.14).
togtsötsig ちつざるロ'(a bit, a little')
dàn てい(do this!')
dùnnal 芸口'口色辺'(suffering, tribulation')
dùm 貴に'(story, tale')
dùntha ロスス'凶口'(a week')
dè ロスエ'(here')
dònda モロ'古口'(a kick')
thumà ヨエエ'(a spoon')
negàmè ロスス'ロココス'(it doesn't matter much')
phe 凶口と"(going')

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mà XX 'down, on the ground'
mindug 137'3501' 'is not' mègo 21'01' 'America'
mòmo 🎞 'Ya'' 'a puff [article of food, fried]'
teme # A THT' 'wife'
dàbo山以心 'king'
t#1 44''do!'
tserèsi धुर् प्राचीपार 'Avalokiteshvara'
tèmo प्रमाभागा 'old woman'
sanni NC'37' 'the following day'
ा पात्रेपाध" see,
sì 主 'say'
setan און אין 'gold coin' (3.3)
slbthur TAN'ST' 'spoon'
mu ロタロ科''live'
รenglmlndug ชื่น ปี่ มี 'สุรุธา 'don't know how to...'
rida T'AN''deer; other wild animal (object of hunt)'
lu 2141' 'remain'
1à 1ès 외미시'있미리'친"Yes, sir!'
Yesa W' 'Lhasa'
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3.3 The orthographic conventions and special symbols for spelling Sanscrit and other Indic words in the Tibetan script are properly speaking somewhat outside the scope of the present work, but certain points should be noted. The Sanskrit long vowels are written by adding a subscript R to the symbol for the initial consonant, the Sanskrit voiced aspirates by adding a subscript F, and the Sanskrit retroflexes by reversed 5, R, T, and T, i.e. by Z, B, T, and T. Note also that

#### 4. TEXT AND TRANSLATION

**夏**夏仁之仁王岁.页.重时11 ३४.वाष्ट्रवा.वि.किट.श्रवा.बे.सैवा.सूर्मा.यस.विय.ता.बारेट वत. त्र्याताक्ष्येवराच्युक्तरायाक्ष्यात्राप्ता विमञ्जात्राय क्रम्यमार्विव परिवेश्मधन व्यक्तिम् विव मार्विय परिवेश प्रिम्हिरह्म् प्रित्रेर्न् ५५५ हैट देश केन केन केन का मार्थि स्थानिय तार्रार्यसाम् स्विनात्रे स्वापित्र प्रवेश न्या र्केर.त. रूर. 1 रूच. व्र. श्रुचा.त. र. श्रुचा. द्र. र. तती वा नशा जूर. त. रूर. 1 प्रिमिति मिर्ना प्रिने तार्रा विरास्तावतात्रभावनाविवातार्वेशवतार्राविवासार् र् स्वर्णाम्यर्पुरवा वायारेयः विद्वर्षेत्व व्यर्भः विद्वर् रे.र्ट..बे.श्लेम.क्रर.त.क्रब.त्.येरेचा र्स.च.त्स.के.स्या.त्. पर्पु नद्भायाम् र्यस्य हेर्ये स्ट्रिं नो लूर्। विर्यर्रे नि वैजातक्षात्रमानात्वे वी.जूर्। ह्रियातात्वे त्वामा द भर.लूट.वंब.के.वंरु.ल.झर.म्.झ.श्वार.लुब.हि.हि.चू. स्रदःकः पदे विभावभाषिभाद्यः प्राचनप्राधानिभाद्यः पद्या

thibtšan dàn ràyi lòdü. The story of the jackal and the goat.

Mintsig thibtsantsig setag komne thomba tin sa-One day a jackal was very thirsty and went to drink

botšig là tšu thunwitšhirdù tšhimbare. kho tšhu thunwater from a very deep well. When he was finished

tsharnè thombà tèyi thalà tBhir thonmàthubbàrè. drinking the water, he could not climb up out of the well.

khö tëhir thömbitöndù niŋrù tëhembò tëènayan thönmathub-Although he tried very hard to climb out, he could not climb

bàrè. tène kho thömbètsigpedàmdu nenè out. Then he stayed there leaning against the side of the

dòparè. togtsötsiglà ràtsig tèru dune yonbàrè. well. In a little while a goat came along there.

kho thibt santè thombènàn la thonnè ke thembòr tì-He saw the jackal in the well and asked him in a loud

bàrè. thöràn kànt senè thôm bà tèyi nàndu sùgparè. voice: 'Why are you in the well?

tèru kànyan dùggè. tèna thibtsangì lèndu sèrra. What is down there?' Then the jackal said in reply:

tèrin Bètag tshepa tBhembò dùg, tèna nè tBhu silbò-'Today it is very hot, So I am staying down

diyl nànla dène tsemò tseglyð. thöran tènda here playing in this cool water. Where are you

tèwatBène kàba dòglyò. ŋönlà ŋè dàmdu going in such a hurry? First come down here

mà yònne tšhu dila tsemòtsetšig. rè thibtšangì by me and play in the water.' The goat

ketšhadi thonė kho tanbo šebayindug heard what the jackal said and believing him

samnè thombà tèyi nàndu thonwarè, tèna to be honest, went down into the well. Then

thibtsan tè gàne kho thonnà dàn làmsan kho dàbdu the jackal was happy and as soon as he saw him he

Bồnne thömbè tha là thönthubbà dàn tồne tBhimjumped upon his back, climbed out of the well and ran

bàrè. khö rà tè thömbènàndu pòrne Bàgpa dàn away. He left the goat behind in the well and

theso thène kholà làbba. thoràn kugpabig mocked him. 'You are a fool,'

dùgparè. lòdu di nàndzo là sèndi ketsha he said. This story teaches us that we must not believe

làbba dàn làmsan dèmba tsagòmàrè. something as soon as someone tells it to us.

ŋandzö kàŋyaŋ tĕèbiŋönlà samla taŋ-We must consider before we do anything.

gờ.

#### NOTES

- 1.01 On the introduction of writing to Tibet, see B. Laufer, "Bird divination among the Tibetans," TP 15 (1914) 64-67.
- 1.03 The analysis upon which the present outline of CT phonemics is based is presented in detail in the author's "Studies in Spoken Tibetan, I: Phonemics," JAOS 75 (1955) 46-51. For earlier accounts of this dialect, see footnote 2 of that article. On CT and the Lhasa dialect, see the author's "The independent status of the Lhasa dialect within Central Tibetan," Orbis 4:1 (1955) 49-55.
- 1.2 The method employed by Tibetan masters when spelling words aloud, and the names used for the letters in such a case, are accurately described in Bell, Grammar, 17 ff. Here we deal only with the square hand as used in printing; the cursive hand, widely but not exclusively employed in writing, especially for business purposes, introduces no new principle, but is simply a matter of learning the cursive shapes of the symbols and some special combinations; it has been described in J. Bacot, "L'écriture cursive tibétaine," JA 1912, 1-78 [reprint pagination].
- 2.15 These are abstracted for the reader's convenience from the lists in Alexander Csoma de Kőrös, A grammar of the Tibetan language in English (Calcutta, 1834), pp. 12-16. This is still the most useful of the older grammars of the written language; but more easily available are H. A. Jäschke, Tibetan grammar<sup>2</sup> (London, 1883), and Sarat Chandra Das, An introduction to the grammar of the Tibetan language (Darjeeling, 1915).
- 3.1 Symbols for statements of alternation:  $\sim$  'phonological variation';  $\sim$  'morphological variation';  $\sim$  'free variation'; > 'vowel-shift'; + 'suffixing';  $\emptyset$  'zero'. Superscripts indicate the governing condition for each variant.
- 3.12 See the author's "The significance for comparative grammar of some Ablauts in the Tibetan number-system," TP 43 (1955) 287-96.
- 3.21 See the author's "Morphologically determined allomorphs in spoken Tibetan," Language 30 (1954) 458-60.