

A Historical Study
of
rGyarong Initials and Prefixes

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0. Introduction

This paper is designed to discuss the possibility of reconstructing the Proto-rGyarong initials and prefixes and to examine their relationship with Proto-Tibeto-Burman (PTB).

The rGyarong language has attracted the attention of many scholars for a long time, and it is generally thought that the language would be a sort of link between Tibetan and Burmese. In fact, Wolfenden pointed this out as early as the 1930's (see Wolfenden 1936), adding that Ao also had a system of prefixes comparable with Written Tibetan (WT), Written Burmese (WB), and Kachin (Jingpaw).

Since then, we have had several monographs dealing with rGyarong. Unfortunately, however, in spite of some sincere scholarly efforts the comparative studies do not seem to have been very fruitful.

I think that it is rGyarong's striking similarity to WT forms that has charmed students; indeed, the language has many forms identical to those in WT. But, at the same time, in a sense that similarity has misled them. Disappointingly, almost all of them merely picked those rGyarong words which supported their hypothesis and they compared rGyarong directly with WT. My purpose in writing this paper is to counteract this tendency.

I should like to repeat that, above all, it is preferable to reconstruct Proto-rGyarong before comparing modern rGyarong forms with WT directly, because, first, they are at quite a distance from each other chronologically [1] and, second, there are many problems both on the Tibetan side and on the rGyarong side which must be solved before the two branches can be compared. This is the only sound methodology for studying rGyarong [2].

Also, from the actual history of the rGyarong area, we know that there were several fairly large waves of immigration from Central Tibet to the rGyarong area. These occurred at least twice before the 15-16th centuries [3]. We have documents describing these historical events. In my opinion rGyarong borrowed many words from Central Tibetan due to these immigrations and as a consequence it is to be expected that rGyarong should have a striking similarity to WT. It is because of this that almost identical words should be disregarded and not taken into consideration when we do comparative work.

So my basic idea is that we must now collect as many dialects of rGyarong as possible, reconstruct Proto-rGyarong and, after that, compare our reconstruction with the appropriate subgroups---Ch'iang, for example [4]. It is true that field work there would be extremely difficult, but it is still possible to do it in Nepal, India, and Canada. I spent several months in India collecting some Tibetan dialectal data, and I found three rGyarong informants [5] in Sera Monastery which was originally in Lhasa but has been re-established by Tibetan refugees in South India, where they have fortunately preserved a tradition of speaking Central Tibetan as the standard language and talking in their own dialects in their dormitories, which are set up on the basis of where they came from.

This is a preliminary step towards reconstructing the Proto-rGyarong initials and prefixes and examining their relationship with WT and then with Proto-Tibeto-Burman.

0.1 General remarks about the rGyarong area

The rGyarong area is within Sichuan Province of China, on the east side of Kangze Tibetan Autonomous Region and to the north-west of Cheng-tu. The approximate number of rGyarong speakers is around seventy thousand [6]. According to the informants, the Chos-kia and lCog-rtse areas are the most densely populated, and these two dialects are frequently used for trade. A peripheral area overlaps with Amdo Tibetan in the north, with Ch'iang in the east, with Khams Tibetan in the west, and with Chinese in the south.

According to both the oral tradition and certain documents, there are eighteen dialects in that area [7], but we do not have sufficient data on some of them.

Some scholars refer to rGyarong as 'Jyarong', but this name seems to be based on the Amdo pronunciation of rGyarong. Their own name both for the region and for the language as well as for the people is rGyarong [gja ron].

MAP OF THE rGYARONG AREA



O.2 Abbreviations and Sources

- CK Chos kia Edgar, J.H.: An English-Giarung vocabulary, Journal of West China Border Research Society 5 suppl.(1932)
- CT lCog rtse Nagano, Y.
- HN Hanniu Rosthorn, A. von: Vakabularfragmente ost-tibetischer Dialekte, Zeitschrift der Deutschen Morgenländischen Gesellschaft 51(1897)
- KT Kham to Wolfenden, S.N.: Notes on the Jyarong dialect of Eastern Tibet, T'oung Pao 32(1936)
- PT Pati Rosthorn, A. von: ibid.
- SM Suo mo Chin, P'eng, et al.: Chia-jung-yü Suo-mo-hua de Yü-yin ho Hsing-t'ai, Yüyen Yenchiu 2 & 3(1957-8)
- TK Tsa ku nao Chin, P'eng: Etude sur le Jyarung, Han Huiue 3 (1949)
- TR Trung Lo, Ch'ang-p'ei: A preliminary study on the Trung language of Kun-shan, Harvard Journal of Asiatic Studies 8(1945)
- TS bTsan lha Nagano, Y.
- TZ Tzu ta Chang, Kun: The phonology of a Gyarong dialect, Bulletin of the Institute of History and Philology, Academia Sinica 38 (1968)
- WS Wassu Rosthorn, A. von: ibid.

O.3 References

- Benedict, P.K.: Sino-Tibetan: A Conspectus, Cambridge(1972)
- Bradley, D.: Akha and southern Loloish, Genetic Relationship, Diffusion and Typological Similarities of East and Southeast Asian Languages, The Japan Society for the Promotion of Science(1976)
- Chang, Kun: A comparative study of the southern Ch'iang dialects, Monumenta Serica 26(1967)
- Chang, B.S. & Chang, Kun: Gyarong historical phonology, Bulletin of Institute of History and Philology 46(1975)
- Hodgson, B.H.: Sifán and Hórsok vocabularies, Journal of Asiatic Society of Bengal 22(1853)
- Li, Fang-kuei: Certain phonetic influence of the Tibetan prefixes upon the root initials, Bulletin of Institute of History and Philology 3(1933)
- Lo, Ch'ang-p'ei: Kung-shan Ch'iu-yü Ch'u-t'an Kunming(1942)
- Mainwaring, G.B.: Dictionary of the Lepcha Language Berlin(1898)
- Matisoff, J.A.: The Loloish Tonal Split Revisited, Center for South and Southeast Asia Studies Research Monograph No. 7, Berkeley (1972)

- Nishida, T.: A Study of the Tibetan-Chinese Vocabulary: Hsi-Fan-Kuan I-Yu Kyoto(1970)
- : A Study of the Tosu-Chinese Vocabulary: Tosu I-Yu Kyoto (1973)
- : Some problems in the comparison of Tibetan, Burmese and Kachin languages, Studia Phonologica 11(1977)
- Shafer, R.: Introduction to Sino-Tibetan pt 1 & 2, Wiesbaden (1966-7)
- Wen, Yu: Verbal directive prefixes in the Jyarung language and their Ch'iang equivalents, Studia Serica 3 (1943)
- : Personal endings of the verb in the Gyarong language, Bulletin of Chinese Studies 4(1944)

1. RECONSTRUCTION OF THE PROTO-rGYARONG INITIALS AND PREFIXES

This chapter is a trial internal reconstruction of the proto-rGyarong initials and prefixes not using WT. Needless to say, since prefixes and initials are closely related to each other, I will not examine the prefixes in isolation, but consider prefixes and root initial consonants as a set, examine how those combinations correspond in the whole system, and try to reconstruct the proto-system [8].

Generally speaking, a rGyarong syllable has a (P1)(P2)Ci(G) VCf structure. G stands for w, y, l, or r. The prefixes which can be at the P2 position in PG are: *P-, *t-, *K-, *r-, *l-, *s-, *V-, *N-, *sy- (see also Chapter 3). The only P1P2- is *gsy- [9].

Chapters 1-1 through 1-8 are devoted to listing the correspondences and possible reconstructions of the clusters will be shown at the end of each chapter with a short discussion. A probable system of prefixes and initials will be proposed in Chapters 2 and 3.

Although rGyarong has a complicated system of prefixes both on nominals [10] and verbs [11], those on nominals will not be considered in the historical approach of this paper, since, in my opinion, they are secondary phenomena, and thus only the nuclear initials will be examined.

In the following chapters, the original transcriptions which the original scholars used will be cited as they are---that is, without any phonemic interpretation of my own---except for certain symbols which have been changed for the sake of typing:

ə	goes to	ä	goes to	ɪ
ɛ		ā		ɑ
ɐ		ā		ɨ
ɨ		ā		ɨ
dz		dz		ʃ
ʃ		ʃ		ʃ
t		t		z
t		t		z
d		d		z

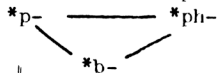
My own materials will be mainly used for reconstruction, with reference to the others.

1.1 Bilabial

- a. CT p-, TS p-, CK p-, TK p-, SM p-, WS p-, KT py- ¶ PG *b-
e.g. year CT pi pa, TS ?a i pa, CK te pe, TK ji-piē, SM tā
pa, WS tiepó, KT tē-pyē
- b. CT sp-, TS sp-, TZ sp-, SM sp- ¶ PG *sP-
e.g. pus CT ta spu, TS ta spuk, TZ raspu, SM ta spu
- c. CT shp-, TS shp-, CK shp-, TK sp-, SM šp- ¶ PG *shb-
e.g. thirsty CT shpak, TS shpak, CK kish'pag, TK kašpiag, SM
ka špak
- d. CT rp-, TS rph-, TZ rpj-, CK rp'-, TK rp-, SM sp- ¶ PG *rP-
e.g. shoulder CT na rpak, TS ta rphak, TZ tarpjak, CK tar
p'eg, TK rpia, SM rpak
- e. CT mp-, TS mp-, TZ mp-, CK m'p-, TK p'-, SM p'š- ¶ PG *Nb-
e.g. outside CT wu mpuy, TS wa mpuy, TZ wempu, CK wu m'po'i
TK Na-p'is, SM wu p'ši
- f. CT lp-, TS lp-, CK lp- ¶ PG *lP-
e.g. ash CT skya ka lpe, TS ka lpe, CK s'kya k'al pe
- g. CT ph-, TS ph-, TZ pj-, CK p'-, SM p-, WS p-, PT p-, HN p'-
KT p'y- ¶ PG *p-
e.g. pig CT phak, TS phak, TZ pjak, CK p'ag, SM pak, WS pāk
PT pa, HN p'ā, KT p'yāk
- h. CT mph-, TS sky-, TZ sts-, CK ky-, SM mp'- ¶ PG *Np-
e.g. to vomit CT ka ma mphat, TS skyuk, TZ estsulak, CK ki
kyug, SM tā mp'at
- i. CT py-, CK my- ¶ PG *by-
e.g. full CT ?u pyot, CK ki myod
- j. CT phy-, TS pky, CK p'y-, KT py- ¶ PG *py-
e.g. carpet CT ta phyo, TS ta pkyu, CK ta p'yo, KT dā-pyū
- k. CT pr-, TS pr-, TZ pr-, TK pr-, ES pr-, KT pr- ¶ PG *br-
e.g. white CT ka pram, TS ka prom, TZ keprom, CK ki prom
TK káprom, WS kopróm, KT kã-próm
- l. CT br-, TZ br-, CK n'br-, TK npr-, SM mbr-, WS br-, KT br-
¶ PG *pr-

- e.g. horse CT bró, TZ bro/baro, CK n'bro, TK mpro, SM mbro
WS bró, KT ô-bō-rō
- m. CT zhb-, TS zhb-, CK sh'w-, KT šb- ¶ PG *shp-
e.g. cheek CT wu zhba, TS ta zhba?, TZ tekharpha, CK ti zh'we
KT tē-šbīe

The most striking thing observed in those data is the fact that Øb- is not found in any rGyarong dialects. In other words, the initial b- is always found prefixed in the dialects. Though we must set up the triangle system of bilabials shown on the right if we take WT into consideration, we have a much simpler system, *Øp- ↔ *Øb- as the nuclear initials of the proto-rGyarong stage if we use only the internal reconstruction. This system is much easier and much less messy when we consider the relationship between PG and PTB.



My hypothesis is that *Øp- went to ph- and *Øb- to p-, serially. Although prefixed *p- or *b- behave similarly, those bilabials with sh- prefixed behave differently: *shp- went to zhb- and *shb- to shp-, respectively. If those bilabials were with s-, r-, or l- prefixes, they were neutralized.

The following chart can be induced from the data given.

*p-			*b-			*P-
*Øp-	---	ph-	*Øb-	---	p-	
*shp-	---	zhb-	*shb-	---	shp-	*sP- ---> sp-
*Np-	---	Nph-	*Nb-	---	Np-	*rP ---> rp-
*Øpy-	---	phy-	*Øby-	---	py-	*lP ---> lp-
*Øpr-	---	br-	*Øbr-	---	pr-	

The rGyarong forms shown on the right hand of each column are mainly those in CT and TS.

1.2 Dental

- a. CT t-, TS t-, TZ tš-, CK t-, TK sw-, SM t-, WS l-, PT l-
KT t- ¶ PG *d-
e.g. wheat CT tiy, TS tey, TZ tši, CK te'i lo, TK swě, SM
tEi, WS télú, PT telú, KT ô-tō
- b. CT kt-, TS kt-, TZ tš-, CK g't-, TK rtč-, SM kt-, WS kt-
¶ PG *KT-
e.g. big CT ka kte, TS ka kti, TZ ketši, CK ki g'ti, TK
rtčom, SM kã ktiE, WS koktfe, KT kã-kt'i

- c. CT sht-, TS sht-, CK n'dr-, TK dz-, SM št-, KT št- ¶ PG *shT-
 e.g. cold CT ka mi shtak, TS ka ma shtak, CK ti wa n'dro,
 TK kawadzuo, SM kã mã stak, WS tevanió, KT kã-
 mĩ-ste-ã
- d. CT rt-, TS rt-, TZ rtš-, CK t- ¶ PG *rT-
 e.g. hat CT wa rti, TS ta rti, TZ tartši, CK tar ti
- e. CT mt-, TS Nt-, TZ mt-, TK mt- ¶ PG *Nd-
 e.g. front CT mto, TS ?u Ntok, TZ temto, TK mtoã
- f. CT st-, TS t-, CK s't- ¶ PG *sd-
 e.g. autumn CT stong key, TS tong ka, CK s'ton ke
- g. CT zd-, TS zd-, TZ zdž-, CK s'd-, TK zt- ¶ PG *st-
 e.g. cloud CT zdem, TS zdim, TZ zdžim, CK s'dim, TK ztim
- h. CT th-, TS th-, CK t'-, TK t'- ¶ PG *t-
 e.g. how much? CT this ti, TS this ti, CK t'is ti, TK t'ãsti
- i. CT Nth-, TZ mth-, CK m't'-, SM mt'- ¶ PG *Nt-
 e.g. waist CT na Nthak, TZ temthak, CK ti m't'eg, SM te
 mt'ak
- j. CT shty-, TS shty-, CK sh't-, KT št- ¶ PG *shT-
 e.g. saliva CT me shtyi, TS ta mi shtyak, CK ti bhi sh'ti'g
 KT tẽ-mẽ-stik
- k. CT tr-, TS tr-, TZ t-, CK tr-, TK tš-, KT t- ¶ PG *dr-
 e.g. to sew CT ta trop ka pa, TS ka trup, TS tẽp, CK ti
 trob ki pe, TK ka-tšup, KT tũp
- l. CT shtr-, TS sr-, TZ šťj-, CK sh'tr-, TK tš- ¶ PG *shdr-
 e.g. sweat CT ?u shtre, TS ta srep, TZ tešťje, CK ta sh'trid
 TK tšsid
- m. CT trh-, TS trh-, CK tr'-, SM tš- ¶ PG *tr-
 e.g. tea CT trha, TS trha, CK tr'e, SM tš'a

Among those data the examples k. through m. are retroflexives in the CT dialect, which I interpret as tr-/trh- sequences (also see the example of an sr- cluster in l.).

Also the dental series lacks a voiced-unaspirated dental to parallel the velar and bilabial series so I set up *t- and *d- as the nuclear initials. Thus the following changes can be induced:

*t-		*d-		*T-
*Øt-	→	th-	*Ød-	t-
*st-	→	zd-	*sd-	st-
				*KT- → kt-
				*rT- → rt-
				*shT- → sht-
*Nt-	→	Nth-	*Nd-	Nt-
				*shTy- → shty-
*Øtr-	→	trh	*Ødr-	tr-

- n. CT mgy-, TS Nĵ-, TZ dž-, CK ny-, KT mj- ¶ PG *Nky-
e.g. jaw CT ʔo mgya, TS ta Nja, TZ temdže, KT tē-mjā
- o. CT kr-, TS kr-, TZ nkhr-, CK kr-, TK nk'r-, SM nkr-¶PG*gr-
e.g. charcoal CT ta krot, TS ta kru, TZ teñkhru, CK r'gya
krod, TK tañk'ru, SM ta ñkrot
- p. CT skr-, TS skr-, CK skr-, TK sk'r-, SM skr-, KT skr- ¶PG *sgr-
e.g. body CT ʔu skru, TS ʔu skrung, CK tis skru, TK täsk'ri,
SM tā skru, KT te-skri
- q. CT gshkr-, TS gshkr- ¶PG *Ksh-
e.g. rough CT gshkren, TS gshkrak
- r. CT khr-, TS dr-, TZ khr-, CK n'br-, SM k'r-, WS k'r-, TR
dz- ¶PG *kr-
e.g. rice CT khri, TS dre, TZ khre, CK n'bres kar, SM k'ri
WS k'ri, TR dza
- s. CT gr-, TS gr-, CK gr-
e.g. knife CT gri, TS gri, CK za gri
- t. CT zgr-, TS dr-, TK zgr-, WS zgr- ¶ PG *skr-
e.g. bracelet CT zgrok, TS drok, TK zgrea, WS zgrók
- u. CT Ngr-, TS gr-, TZ r-, CK r-, WS r-
e.g. star CT tsi Ngri, TS tsi gri, TZ tsurer, CK tsu'u ri
WS tserí

Since we again have no voiced-unaspirated velar in initial position, *k- and *g- could be set up as the nuclear consonants. No PG form can be established for s. and u., since these are loanwords from WT and Mongolian, respectively.

The velar is neutralized after the prefixes *r- and *sh-; rk- went to rg- before -y- and to rk- otherwise.

The following changes can be deduced. Thus:

*k-		*g-		*K-
*Øk-	→	kh-	*Øg-	→ k-
*sk-	→	zg-	*sg-	→ sk-
*Nk-	→	Ng-	*Ng-	→ Nk-
				*PK- → pk-
				*rK- → rg-/___y rk-/
				otherwise
				*shK- → shk-
*?k-	→	kh-	*?g-	→ ?k-

The other clusters with glides also follow these rules.

- a. CT s-, TS s-, TZ s-, CK s-, TK s-, KP s-
 e.g. to kill CT sat, TS sat, TZ sjan, CK ko sad, TK
 ka-sʰad
- b. CT ʔs-, TS ʔs-[lɿ]
 e.g. to put off light CT ʔsat, TS ʔsat
 ʔZ rs-, TK rs-, SM sr-
 e.g. life TZ tersa, TK rsag, SM ta strok
 CT z-, TS z-, CK z-, WS z-, PT z-, HN zh-, TR k-
 ʔPG *z-
- c. to eat CT ta zan, TS ka za, CK ta ni zan, TK ta
 zʰa, WS tazʰi, PT teza, HN cʰi zo, KT zai,
 TR na kai
- e. CT rz-, TS rz-, CK rz-, TK rts-
 e.g. eyebrow CT myyak morzi, TS myok morzi, CK myeg
 mor ze, TK mar tsʰ
- f. CT sw-, TS sw-, TZ swj-, CK sw-, TK sy-, SM sw-, HN s-,
 KT s-, TR s-
 e.g. tooth CT swa, TS ta swa, TZ swje, CK tis we, TK
 nasya, SM taswa, HN so, KP te-sie, TR sa
 e.g. meat CT sha TS sʰa, TZ sje, CK sha po, TK cʰia, SM
 sa, TR shia
- h. CT psh-, TZ ms-, CK bʰsh-, TK bʰc-, WS s-, KP s- ʔPG *Psh-
 e.g. liver CT ta pshi, TZ temsi, TK tabʰei, WS tesie,
 KT tʰ-wʰ-si
- i. CT ksh-, TS ksh-, CK gʰsh- ʔPG *Ksh-
 e.g. quiet CT ka kshin, TS ka kshen, CK ki gʰshen
 CT msh-, TS mkhy-, TZ mtshj-, CK nʰpy-, TK npʰy-, KT
- j. beautiful CT ka mshor, TS ka mkhyer, TZ kemtsʰjar,
 CK ki nʰpy'er, TK kenp'yar, KT kē-msar
 TR erang
- k. CT sh-, TS shj-, ʔZ sʰ-, CK sy-, TK sj-, WS sn-, HN rts-
 KT sʰi- ʔPG *shj-
 e.g. yesterday CT myi sher, TS ʰa shu, TZ asʰu, CK pi
 syor, TK ʰasju, WS wasnʰ, KT a-slo
- Different from the velar, dental and bilabial series, the
 fricative series are rather straightforward. Since aspirated s-,
 observed in Burmese, does not exist in this language, I set up *s-
 and *zh- respectively. ʔs-, kept in CT and TS,
 seems to come from *ks-, but this word is probably a loanword from
 WF.
- I suppose the fricative series followed the changes shown
 below.

$-S_*$	$-Z_*$	$-S_*$	$-Z_*$	$-S_*$	$-Z_*$
$-S$	$-Z$	$-S$	$-Z$	$-S$	$-Z$
$-S\emptyset_*$	$-Z\emptyset_*$	$-S\emptyset_*$	$-Z\emptyset_*$	$-S\emptyset_*$	$-Z\emptyset_*$
$-S\mathcal{I}_*$	$-Z\mathcal{I}_*$	$-S\mathcal{I}_*$	$-Z\mathcal{I}_*$	$-S\mathcal{I}_*$	$-Z\mathcal{I}_*$
$-S\mathcal{K}_*$	$-Z\mathcal{K}_*$	$-S\mathcal{K}_*$	$-Z\mathcal{K}_*$	$-S\mathcal{K}_*$	$-Z\mathcal{K}_*$
$-S_*$	$-Z_*$	$-S_*$	$-Z_*$	$-S_*$	$-Z_*$

1.5 Affirmative

- a. CT ts-, TS ts-, TZ tsj-, CK ts-, TK ts-, KT ts- PG *dz-
e.g. grass CT ka tsə, TS tsə, TZ ketsjə, CK ka tsə, TK
tsə, KT kə-tsə
b. CT kts-, TS kts-, CK ɣts-, TK ɣts- KT
e.g. young CT ka ktsi, TS ka ktsɛy, CK wa bli ki ɣtsɛ'i,
TK kəɣtsɛi, KT tɛ-tsɛi
c. CT rts-, TZ rts-, CK rts-, KT rts-
e.g. vein CT ɲu rtsə, TZ tertshe, CK tir tsɛ'i, KT tɛ-rtsɛi
d. CT sts-, TS sk-, CK s'ts-, SM sts-
e.g. warm CT ka stse, TS sa skit, CK ko wa s'tsi, SM ka stsiɛ
e.g. matavani
e. CT tsh-, TS tsh-, TZ ts-, CK ch-, TK ts-, WS c'-, PT c'-, HN
c'-, KT c'-
e.g. water CT khyi/tshi, TS tshi, TZ tɛʃɛ, CK ti chi, TK
tsi, WS tɛc'i, PT tɛc'i, HN c'inc'i, KT tɛ-c'i
f. CT pish-, TS psh-, CK ts-, SM nt'-
e.g. drop CT ta pshak, TS pshak, CK ti tseɣ, SM nt'ək
g. CT rts-, TS rts-, SM rts'-
e.g. cough CT ɲu rtsɔs, TS ta rtsɛ, SM rts'os
h. CT tsɪ-, TS tsɪ-, CK tsɪ-, WS tsɪ-, KT tsɪ-
e.g. month CT tsɪa, TS tsɪa, CK tsɪ-, WS tiɛtsɪa, KT tɛ-
tsɛ-liā
i. CT Ndɜ-, TK ts-, SM mɜɜr-, KT dz-
e.g. finger CT na yang zu Ndɜo, TK tsɛɲu, KT tɛ-yān dzɔ, SM
ta ndɜru
j. CT c-, TS c-, TZ ts-, CK ch-, TS ts-, SM ts-, PT c-, KT c'-
e.g. house CT ta cɪm, TS cem, TZ tsam, CK chem, TK tsɪm,
tsɪm, WS tɛw, PT cɪɛm, KT c'ɔm, PR chiām
k. CT sc-, TS sc-, CK s'py-, TK sp-
e.g. wolf CT scang ku, TS scang ku, CK s'pyonɣ ku, TK spɪān
ku
l. CT shc-, TS rɣ-, CK br-
e.g. tea sheet, TS ɲu rɣɛ, CK tɪb ri

- m. CT mc-, TS mc-, TZ mčš-, CK m-, TK m-, SM mts-, WS m-, PT m-, HN mny-, KT mč'- ¶PG *NC-
 e.g. fire CT mcik, TS ta mcik, TZ temčšek, CK ti mi, TK mā, SM tā mčsik, WS temí, PT temé, HN mnyí, KT tč-mč'ík
- n. CT ch-, TS ch-, TZ ž-, CK s-, SM ts'-, WS y-, PT s-, KT s- ¶PG *c-
 e.g. goat CT chit, TS chit, TZ kežo, CK kiso, SM ts'āt
 WS kéyo, PT kosú, HN li, KT ā-kě-sû
- o. CT kch-, TS kch-, TZ tšh-, CK g'ch'- ¶PG *Kc-
 e.g. thin CT kchem, TS ka kchem, TZ kečšhim, CK ki g'ch'em
- p. CT lĵ-, TS lĵ-, TZ bđž-, CK l'j-, SM ldz- ¶PG *lC-
 e.g. green[l6] CT lĵang ku, TS lĵang ku, TZ bđžanku, CK l'jang ku, SM ldzañ sar

As was in the velar, bilabial and dental series, we have no Ødz- nor Øĵ-, and so we have only to set up *ts- and *dz- as the nuclear initials for the former series and *c- and *ĵ- for the latter.

The following chart will illustrate the historical changes.

*c-	*ĵ-	*C-
*Øc- --> ch-	*Øĵ- --> c-	
		*KC- --> kch-
		*lC- --> lĵ-
		*sC- --> sc-
		*shC- --> shc-
		*NC- --> Nc-
*ts-	*dz-	*TS-
*Øts- --> tsh-	*Ødz- --> ts-	
*rts- --> rtsh-	*rdz- --> rts-	
		*KTS- --> kts-
		*PTS- --> ptsh-
		*STS- --> sts-
		*NTS- --> Ndz-

1.6 1 & r

- a. CT l-, TS l-, TZ l-, CK l-, KT l- ¶PG *l-
 e.g. milk CT tu lo, TS tu lu, CK ti lo, KT tč-lŭk
- b. CT r-, TS r-, TZ r-, CK r- ¶PG *r-
 e.g. horn CT wu ru, TS te ri, TZ te ru, CK tu ru, KT tč-rě
- c. CT rw-, TS rw-, CK rw- ¶PG *rw-
 e.g. to get up CT ka rwas, TS ka rwas, CK kir was
- d. CT ry-, CK ry- ¶PG *ry-
 e.g. day CT ta ryak, CK tar yog

It seems to me that *r- and *l- could be set up as the initials for the series. Some dialects have the voiceless l- for the initial of the word 'god', but this must be a loanword from Wt'.

1.7 Nasal

- a. CT m-, TS m-, CK m-, TK m-, WS m-, PT m-, HN mt'- ¶PG *m-
e.g. to drink CT ka mot, TS ka mot, CK ko med, TK ka-mod
WS komũ, PT kóm, HN cĩnt'ën
- b. CT rm-, TS rm-, TZ rmj-, CK my-, TK rm-, WS rm- ¶PG *rm-
e.g. to sleep CT ka rma, TS ka rma, TZ karmje, CK ti myed
ki yu, TK kã-rmiä, WS kormán
- c. CT sm-, TS sm-, TZ sm-, CK sm-, TK sm- ¶PG *sm-
e.g. wool CT smok, TS smok, TZ smak, CK pi s'mag, TK smag
- d. CT shm-, TS shmy-, TZ šm-, CK sh'n-, K't sm- ¶PG *shm-
e.g. tongue CT ni shme, TS te shmye, TZ tešmi, CK ti sh'ni
KT tẽ-šmi
- e. CT n-, TS n-, CK n-, TK sn-, SM n-, WS n-, KT n- ¶PG *n-
e.g. black CT ka nak, TS ka nak, CK ki-nag, TK snag, SM
mã nak, WS kanák, KT kã-nāk
- f. CT rn-, TS rn-, TZ rnj-, CK rw-, TK rn- ¶PG *rn-
e.g. rib CT ko rnam, TS ta rnum, TZ tarnom, CK tor wom
- g. CT šn-, TS sn-, CK sh'n-, TK šn-, WS šn-, PT šn-, HN sn-
KT šn- ¶PG *sn-
e.g. nose CT ?u sna, TS te sna, CK ti sh'ne, TK sne, WS
tešná, PT tesní, HN snó, KT tẽ-snâ
- h. CT ng-, TS ng-, TZ ñ-, CK ng-, SM ñ-, WS y-, KT ñ- ¶PG *ng-
e.g. I CT nga, TS nga, TZ ña, CK ngo, SM ña, WS yó, KT
ñô
- i. CT mng-, TS mng-, CK m'ng-, KT mñ- ¶PG *Nng-
e.g. knee CT ?o mnga, TS ta mngo, CK tu m'nge, K't tẽ-mñẽ
- j. CT sng-, TS sng-, CK s'ng-, WS l-, KT ñ- ¶PG *sng-
e.g. blue CT sngon po, TS sngon po, CK s'ngon po, WS lãn
KT ñõn-pô
- k. CT ngw-, TS ngw-, TZ ñwj-, CK ng-, WS ngw-, PT ngw-, KT
ñ- ¶PG *ngw-
e.g. cow CT ni ngwa, TS ti ngwa, TZ ñiñwje, CK ni nge, TK
ba liä, SM bo la, WS núngwa, PT nungwé, KT nõñ-â
- l. CT ny-, TS ny-, CK n-, TK n-, SM ñ- ¶PG *ny-
e.g. to sit CT na nyin, TS ka nyi, CK na nun, TK ka-nã
SM ka-ñi
- m. CT rny-, TZ rñ-, CK r'my-, TK rñ-, SM rñ-, KT rn- ¶PG *rny-
e.g. hair CT ta rnye, TZ tarñek, CK ta ko r'myi, TK ko rñi
SM ta rñiE, KT tâkô rñi

- n. CT mny-, TS mny-, TZ mñ-, CK my-, TK mñ-, WS mñ-, KT mñ-
 e.g. eye CT mnyak, TS ta mnyok, TZ temña, CK ti myeg, TK mñag, WS temniäk, KT tẽ-mñäk ¶PG *Nny-
- o. CT shny-, TS shny-, CK sh'n-, TK şn-, WS šn-, KT šn-
 e.g. today CT pi shnyi, TS ?a shnyi, CK pi sh'ni, TK Na-şnã, WS asnĩ, KT ă-snẽ ¶PG *shny-

From the given data, the following nasal initials and clusters would be set up:

*Øm-	*rm-	*sm-		
*Øn-	*rn-	*sn-	*shn-	
*Øny-	*rny-		*shny-	*Nny-
*Øng-		*sng-		*Nng-
*Øngw-				

Consider the patterns found in the system as a whole, we should strongly expect *rng- and *sny-. But they are not in evidence.

1.8 w, y, h and ?

- a. CT w-, TS w-, CK w-, TK w-, SM w-, WS w-, KT w- ¶PG *w-
 e.g. mountain CT ta wat, TS ta wat, CK ta wed, TK ta wued
 SM tawat, WS táwa, KT tâwẽ
- b. CT y-, TS y-, TZ s-, CK y-, TK jy-, SM j-, PT y-, KT y-
 ¶PG *y-
 e.g. sheep CT ka yo, TS ka yo, TZ kesu, CK ki-yo, TK kãjyo, SM kã jo, PT koyó, KT ă-kẽ-yũ
- c. CT ?-, TS ?- ¶PG *V-/ *?ã-
 e.g. wrist CT wa ya ?o tsik, TS ta yak ?a tsik
- d. CT ?-, TS ?-, CK w-, TK w- ¶PG *w-
 e.g. deaf CT ko wa ?os, TS ta?o, CK ta wo, TK wuo
- e. CT h- ¶PG *h-

From the data given, I set up *w-, *y- and *h-. I do not think we need to set up *?-, since in example d. the ?- came from *w- originally, and in example c. ?o- and ?a- were in reality a set of prefixes; in other words, the examples in c. came from *a-tsik or *ã-tsik.

2. DISCUSSION OF THE PROTO-rGYARONG INITIALS

Summarizing the data 1.1 through 1.8, the following chart illustrating the PG initials could be deduced:

*p-	*t-	*k-			
*b-	*d-	*g-			
*m-	*n-		*ny-	*ng-	
*s-	*ts-	*sh-	*c-		*h-
*z-	*dz-	*zh-	*j-		
	*r-				*w-
	*l-				*y-

However, *sh- and *zh, which I reconstructed, are palatal, and so, they could be re-interpreted as *sy- and *zy respectively; similarly, it seems also possible to interpret *c- and *j- as *tsy- and *dzy- severally.

Therefore, it is concluded that the PG had *k-, *g-, *p-, *b-, *t-, *d-, *m-, *n-, *ng-, *s-, *z-, *ts-, *dz-, *r-, *l-, *h-, *w- and *y- as the initials.

Then, how do the PG initials correspond with the PTB ones? The following is the list of those correspondences:

	PG	PTB
a. velar		
<u>head</u>	*Ngo(1.3.a)	*m-gaw
<u>mouth</u>	*ka(1.3.g)	*m-ka
b. bilabial		
<u>ash</u>	*lbe(1.1.f)	*pla[17]
<u>pig</u>	*pak(1.1.g)	*pak
<u>white</u>	*brom(1.1.k)	*bok
c. dental		
<u>poison</u>	*duk [CT tuk, TZ tado, CK ta dog]	*duk
<u>saliva</u>	*syTyik(1.2.j)	*tuk/*twiy
d. fricative		
<u>to kill</u>	*Ksat(1.4.a)	*g-sat
<u>to eat</u>	*zan(1.4.d)	*dzan
<u>leopard</u>	*sydzzyik [KT kě-sčĭk CK ki sh'chig TZ kheštšek SM zuk]	*zik
<u>meat</u>	*sya(1.4.g)	*sya
<u>liver</u>	*Psi(1.4.h)[18]	*m-sin
e. affricate		
<u>vein</u>	*dza(1.5.c)	*r-sa

f. l & r	<u>hot</u> (taste)	* mar tsap [CT mar tshap TS mar tshap]	* tsa
	<u>urine</u>	* sydz yi(1.5.1)	* žay/* tsyi
	<u>goat</u>	* tsyit(1.5.n)	* tsit
	<u>green</u>	* ldzyang gu(1.5.p)	* dzim[19]
	<u>penis</u>	* lem[20] [CT u lem, TS ta lem]	* li
	<u>horn</u>	* ru(1.6.b)	* ruñ
	<u>six</u>	* druk [CT ka truk, TZ keŋo CK ki trog, TK kã- tşuo, WS kočô, HN ktrũ, KT kũtôk]	* d-ruk
	<u>day</u>	* ryak(1.6.d)	* ryak
	<u>ripe</u>	* smin [CT smin, TS smin CK ki s'min, TK smi]	* s-min
	<u>black</u>	* nak(1.7.e)	* nak
g. nasal	<u>I</u>	* nga(1.7.h)	* ña
	<u>tooth</u>	* swa(1.6.f)	* s-wa
	<u>itchy</u>	* ra K-ya	* g-ya[21]
	<u>sneeze</u>	* hap tsyo(1.8.e)	-----
h. w, y & h			

Judging from the given data, the PG initials are almost identical with the PTB ones. It could be concluded that, in general, the PG initial system is very similar to the PTB one in regard both to the system and to particular lexical items. But, there are few correspondences between the two with regard to the fricative and affricate series. Despite attempts on my part which included setting up various intermediate stages, correspondences have not been worked out. This problem remains to be solved.

3. DISCUSSION OF THE PROTO-rGYARONG PREFIXES

The prefix system which I reconstructed also seems to coincide with the PTB prefixes fairly well. Thus:

	PTB		PG
a.	* b-	---	* P-
b.	* d-	---	* t-/____r Ø-/ otherwise
c.	* g-	---	* K-
d.	* r-	---	* r-
e.	* l-	---	* l-

f.	*s-	---	*s-
g.	*a- *ʔa- }	---	*V-
h.	*N-	---	*N-
i.	???	---	*sy-

Although there are many cases where those correspondences do not always work, I would like to list the examples illustrating the rough correspondences of the two. The sign Δ stands for discrepancy.

	PTB		PG
a. <u>four</u>	*b-lây	---	*gu Pli[22] [CT ku bli, CK ki m'pli TK kâwudâ, SM kâ wdi WS koplî, PT koplî KT kǝ-udî, HN ʔî]
	<u>liver</u>	*m-sin	---
b. <u>six</u>	*d-ruk	---	Δ *Psi(1.4.h)[23] *druk(2.f)
	<u>to sew</u>	*d-rup	---
c. <u>to kill</u>	*g-sat	---	*drup(1.2.k) *Ksat(1.4.b)
	<u>big</u>	*tay	---
d. <u>vein</u>	*r-sa	---	Δ *Kde(1.2.b)[24] *rdza(1.5.c)
	<u>ear</u>	*r-na	---
			*rna [CT rna, TS ta rna, TZ ternje, CK dir rne, TK rna, SM tã rna, WS trnã, PT trnî, HN nãmč'o, KT tẽ-rnã]
e. <u>ash</u>	*p̣la	---	*lbe(1.1.f)
	<u>green</u>	*dzim	---
f. <u>nose</u>	*s-na	---	Δ *ldzyang gu(1.5.p) *sna(1.7.g)
	<u>body</u>	*s-kuw	---
			*sgru[27] [CT u skru, TS ʔu skrung CK tis skru, TK tãsk'ri SM tã skru, KT te-skril]
g. <u>father</u>	*a-pa	---	*Vba[28] [CT ʔa pa, TS a pa, CK nga pa, TK ʔa piã, WS gáp̣pa, KT â-tâ-tâ, PT pai ⁴]
	<u>mother</u>	*a-ma	---
			*Vma [CT nga ma, TS ʔa ma, CK ngu mo, TK ʔa-mo, KT â- mã, TR mai ⁴]
h. <u>head</u>	*m-gaw	---	*N̄go(1.3.a)
	<u>jaw</u>	*m-ka	---
			*Nkya(1.3.n)

<u>lip</u>	*s-nes	---	*synas [CT synam tsya, TS syna pak, TZ temt̚shi CK ti m'ch'u, TK mt̚s'e, KT t̚ē-s̚nās]
<u>heart</u>	*s-niñ	---	*syni(t) [CT u syne, TS trun trun, TZ tešnit, CK ti sh'ni, TK šni, WS tešni, KT t̚ē-s̚ni, PT pu, shin ¹]
<u>saliva</u>	*s-twa	---	*sytyik(1.1.k)
<u>cheek</u>	???	---	*sypa
	*ba ² (PLB)		[CT wu z̥hba, TS ta zhba?, TZ tekharpha CK ti zh'we, KT t̚ē- šbič̥]
<u>J.rough</u>	*gram	---	Δ *Ksygren(1.3.q)

Also I cannot explain the history of the prefix in *Ksygren rough. This is the only example of the PlP2 prefix, and my suspicion is that *Ksy- is not a prefix at all but rather a compound consisting of two nouns

Also I cannot explain the history of the prefix in Ksygren rough. This is the only example of the PlP2 prefix and my suspicion is that *Ksy- is not a prefix at all but rather a noun meaning character. In other words, *Ksygren is a compound consisting of two nouns: Ksy [i] plus gren (character + rough). Although rGyarong has a completely separate form for character, WT has the form gshis. My hypothesis is, therefore, that rGyarong borrowed this word from WT at some stage and, since they have always used it as a compound, the word became idiomatic and the rGyarong speakers lost their awareness of its compound nature. If my hypothesis is accurate, all the rGyarong syllables have the structure PCi(G)Vcf, and the system as a whole has been made simpler and more internally consistent.

These two problems need to be solved in the near future by tracing the histories of the relevant words in other TB languages.

4. EPILOGUE

The readers will find no chapter entitled conclusion in this paper, since, in my opinion, a conclusion should be reserved until one succeeds in reconstructing the PG rhyme system; one cannot say that the proto-system of any language is established if only parts of either the prefix/initials or the rhymes have been reconstructed. Indeed, the

rhyme system for PG was proposed in a paper which I precirculated at the 11th Sino-Tibetan Linguistics Conference in 1978, but the forms shown there were really tentative.

In this chapter, I should like to abstain from saying anything decisive, and to discuss and point out some problematical aspects of the PG prefixes and initials within the limited framework which I dealt with in the previous chapters.

My intention was to counteract the previous tendency of many scholars who tended to compare rGyarong directly with WT, and to reconstruct PG first, in order to be able to compare it with some appropriate languages in the sub-groups of TB which seem to be nearer to PG than WT is. Behind this was the idea that PG would prove to have a similar historical status to Proto-Lolo-Burmese (PLB) in the context of TB studies as a whole. After trying to do that, I found that my idea was basically valid, although all sorts of complications arose in practice.

A great deal of attention to the loanwords from WT or Chinese was paid, and I would believe that I succeeded in distinguishing native rGyarong words from the others. And consequently, my reconstruction has much more reliability than the other attempts made in the past few decades; in this sense, I was right. But, the forms the author has been led to hypothesize for PG are surprisingly closer in appearance to PTB itself than are the forms reconstructed for PLB. As is mentioned in Chapters 2 & 3, PG has a strikingly similar system of prefixes and initials to PTB. This could mean that PG is not on the same taxonomic level as PLB, but reflects a much older historical stage. One possible interpretation of this is that the PTB set up in STC (Benedict 1972) represents a rather recent level only, and that there might exist another and older stage of PTB than the PTB generally accepted today. Another possibility is that, if this PTB really represents the oldest stage of the TB languages, the branch-off of PG from PTB might have happened much earlier than Shafer and Hale suggested (cf. Shafer 1966, and Hale, A.: Clause, Sentence, and Discourse Patterns in Selected Languages of Nepal (1973)).

The next thing which the author would like to point out is that rGyarong seems to consist of two strata at least; one is related to the Tibetan group and the other to the Chin group. Perhaps I shall eventually be able to add the Bodo-Naga group as the third stratum which is partially comparable to PG. Even after getting rid of WT-like forms from rGyarong, the verb system is strongly reminiscent of WT. Since I could not figure out those differences of stratum in this paper, that topic will be dealt with on some subsequent occasion. By the way, the author is of the opinion that Lepcha and Trung are not so closely related genetically to rGyarong although they are widely believed to be so. It is true that rGyarong, T[ā]lrung and Rong (Lepcha) have the common morph rong meaning 'valley', but as far as I have investigated, they are not so close to each other; Trung must be in the Tibetan group, while Rong perhaps belong with Vayu-Bahing.

This paper is a preliminary step towards establishing a tentative position for PG in the TB family. In the future the author plans to pursue these investigations by checking more individual lexical items, as well as the verbal system of the language.

5. NOTES

- 5 This paper originally appeared as the master's thesis at the University of California, Berkeley, submitted in 1978. My sincere thanks are due to Professor Wallace L. Chafe, Professor James A. Matisoff and Professor Kun Chang, who have been supervising my studies at Berkeley for their suggestions and constructive criticisms.

- (1) It is generally believed that Tibetan letters were introduced by Thon mi Sambhota, one of the ministers of Srong btsan sgam po, and that the same person wrote "Sum cu pa" and "rTags kyi 'jug pa" as the principles of Tibetan grammar. Although this tradition is highly doubtful, it is attested that the letters were actually used in the middle of the 7th century. For instance, a Tibetan document from Touen-houang says as follows, in a description on Khri srong brtsan's activities:

bod la snga na yi ge myed pa yang,

btsan po 'di 'i tshe byung nas.....

[in Tibet there was no letter before, but

in the times of this king, (characters) came out...]

(Bacot et al.: Documents de Touen-houang relatifs à l'histoire du Tibet, Paris, 1940, p.118, l. 16-24)

And another document also from Touen-houang says:

blon che stong rtsan gyis, 'gor tir bka' khirms gyi

yi ge bris phar lo gcig

[after the characters of authorized laws were written by Minister(mGar) sTong rtsan, one year(passed)]

("Tibetan Chronicle", the description of 655 A.D.,

cited in Bacot et al. 1940, p.13, l.26-7)

Those descriptions tell us that Tibetan people had had their letters by 655 A.D. at the latest.

- (2) It goes without saying that it is necessary to reconstruct PG before comparing it with WT.
- In the rGyarong side, we must check what kinds of strata are found in that language. Since the rGyarong area is a place where many waves of immigration by Tibetans, Uighurs, Ch'iang people and Mongolians tided, the tongue has been influenced by other languages (see Epilogue).
- Also in the WT side, so-called WT has strata. I can point out two kinds of WT at least; one is the WT named chos skad (language of religion) and another is the WT which had no relation with Buddhist Tibetan and which developed on the basis of spoken features. The chos skad was developed by translating Buddhist texts brought from West India, and it

has a strongly consistent syntax and such a regular correspondence of lexical items to Sanskrit versions that we can reconstruct dispersed Sanskrit sentences canons. In this chos skad too, we can find two sorts: older way of translation and the new one. Under the reign of Khri lde strong btsan(777-815 A.D.), the lexicon called "Mahāvyutpatti" was compiled and translation has been done in a unified form since this book. We call translation since this book skad gsar(new language). The year of the compilation seems to have been 814 A.D. judging from the description of 'sGra sbyor bam po gnyis pa' which is the supplement to "Mahāvyutpatti".

The second kind of WT has few relationship with the Buddhist Tibetan, but in the process of the development it was so much influenced by the Buddhist Tibetan that we can say it is a contaminated form of spoken aspects and the first kind of WT. This kind of WT is usually found in the other documents than Tibetan Tripitaka, for instance, those from Touen-houan or Turkestan and those with Bon religion's source.

In this paper, the WT I dealt with is mostly of the second kind.

- (3) This fact is known by dPa'o gtsug lag 'phreng ba: Dam pa'i chos kyi 'khor los bsgyur ba rnams kyi byung ba gsal bar byed pa mkhas pa'i dga' ston, vol.Ja, for instance.

The first immigration from another area into the rGyarong region which can be attested by concrete documents was in the 6th century. The Khyung po family which resided at dNgul mkhar of Shang shung(west Tibet) moved to Khams stod area of Sichuan, making their colony and many Bonpo monasteries there; similarly Bon religion which we find in rGyal mo tsha ba rong (rGyarong) was brought by sBrang family in the dMu clan who was originally from Shang shung[cf. Z.Yamaguchi: Bon-po no toosen, Annual Report of Japan Association of Tibetan Studies No. 19, 1973].

- (4) cf. Kun Chang 1967

- (5) I used in this paper only two kinds of dialects as the material of historical consideration; CT and TS. I got another informant from Prokho of rGyarong, but that place is not yet identified since his information of his native place does not necessarily coincide with maps. I suspect that it must be [ṣakhol] described as 普烏箇 in 松潘縣志, but I hold my conclusion until I have more precise information.

- (6) cf. Chin P'eng 1957

- (7) Rather recent political documents of Tibet say that rGyarong consists of 18 regions where separate dialects which are not intercommunicable are spoken. But, according to my informants, this is not the case. rGyarong is divided into two areas roughly; rGyal mo rong, which is to the west from Suo-mo, and Tsha ba rong, of which center is Tsha kho(li fan, in the modern naming).

And, those two dialects are not communicable with each other, but within each area they can communicate by their own dialects. I think this explanation is very persuasive since this division agrees with the historical events. As I mentioned in Note (3), the predominant clans of the area were Khyung po and sBrang both of which were originally from Shang shung, and both clans established their own kingdoms in the 7th century separately. This state continued until Ming dynasty's times.

- (8) For example, Shafer set up the following correspondence rules
the prefixes g- and d-.

Old Tibetan	Balti
g-	x-/_ voiceless initials and nasals
	g-/_ voiced initials except for nasals
d-	r-/_ voiceless velars
	r-/_ voiced velars

According to me, this chart is nonsense since g- and d- are in complementary distribution both in OT and modern Tibetan; g- appears before c-, ts-, t-, d-, sh-, zh-, z- s-, y-, ny- and n-; and d- appears before k-, p-, g-, b-, ng- and m-. I will treat prefixes with their combination with initials rather than regard them as separate units from initials.

- (9) See p.37.
- (10) For nominals, there are three sorts of prefixes. If they want to refer to a noun as a substantial thing, they will use ta-prefix in CT and TS, and if that noun belongs to anyone---that is, if it is referred to as possessive they will use na-prefix. As for ?a- prefix I cannot specify how it was used yet, but it will be allowed to say that ?a- prefix can traced up to the PTB prefix a- or ?a-[cf. 3.g.].
- (11) Setting directional prefixes attached to verbs aside, there are two prefixes; ka- and sa-. The sa- prefix is always used for forming causative, which is comparable with WT and Kachin [cf. Nishida: Chibettogo dooshikoozoo no kenkyuu, Gengo Kenkyuu vol. 33, 1957, and Nishida: Kachingo no kenkyuu, Gengo Kenkyuu vol. 38, 1960]. The ka- prefix is rather new one, and I guess this was created much later than PG branched off from PTB. This prefix is observed in all the rGyarong dialects today. As for directional prefixes attached to verbs, see Wen Yu '43.
- (12) The -' means that the informant wrote a tsheg(syllable boundary in Tibetan orthography) there. I think, therefore, the actual pronunciation was like [sako].
By the way, I would like to mention the way this dialect was described. The informant of Chos-kia dialect was a professional interpreter of rGyarong and Central Tibetan who served rGyarong government, translating political documents between the two languages. Edgar handed him a list of WT, and the informant wrote down the equivalent rGyarong words in Tibetan letters.

- Edgar's material is the romanization of them, and so this is a little bit different from so-called linguistic field work. However, the consistency is so strong that, if we know the Central Tibetan fairly well, we can reconstruct the phonetic system of this dialect. This sort of material is, from my experience, much more reliable than a half linguistic description.
- (13) This must be ta-rkom, but since r- prefix functions to raise pitch in Central Tibetan, the informant seems to have used this transcription intentionally.
- (14) The form for 'tea' is PG *tra.
- (15) I believe that the forms of 1.4.a. and 1.4.b. have the same etymology; *Ksat. This proto-form split at some stage into the two forms in order to distinguish each other. By the way modern Tibetan also has the same expression for 'to kill fire, to extinguish' as 1.4.b.
- (16) This is perhaps a loanword from WT.
- (17) This is an example of metathesis.
- (18) We have a possibility of reconstructing msyi, using TS.
- (19) In a sense this example is not appropriate; PTB dzim originally means 'unripe'.
- (20) We have some nasals in this language whose origin cannot be traced.
- (21) Examples for 'itchy': CT⁵ra g_{pu}ya, TS ka ra ?ya, CK pag si, TR⁵ sa
- The examples of CK and TR seems to have some relationship with *m-sak shown in STC. pu⁵ and pag would come from 'skin'. The regular correspondence, PTB *l-: PG *y-, is also observed e.g. hand PTB *lak PG *yak.
- (22) This must be a metathesis.
- (23) see (18).
- (24) The K- prefix must be a new and secondary one.
- (25) see (17).
- (26) see (19).
- (27) We cannot define this etymology. My hypothesis is that the -r- came from 'corpse'. In TK both corpse and body are tāskru/tāskri, and in WT corpse is ro. But in TS and CK, corpse is wom and ?om.
- (28) Both PTB and PG, this prefix is used for kinship terms.

6. ENGLISH-PTB/PG INDEX

ash	1.1.f	blue	1.7.j
autumn	1.2.f	body	1.3.p
back	1.3.i		3.f
beautiful	1.4.j	bracelet	1.3.t
beer	1.3.l	carpet	1.1.j
big	1.2.b	charcoal	1.3.o
black	1.7.c	cheek	1.1.k
			1.2.i

cloud	1.2.g	neck	1.3.f
cold	1.2.c	nose	1.7.g
cough	1.5.g	onion	1.3.d
cow	1.7.k	outside	1.1.e
day	1.6.d	penis	2.f
deaf	1.8.d	pig	1.1.g
to drink	1.7.a	poison	2.c
drop	1.5.f	pus	1.1.b
ear	3.d	to put off light	1.4.b
to eat	1.4.d	quiet	1.4.i
eye	1.7.n	rib	1.7.f
eyebrow	1.4.e	rice	1.3.r
father	3.g	ripe	2.g
finger	1.5.i	rough	1.3.q
fire	1.5.m	saliva	1.2.j
four	3.a	to sew	1.2.k
front	1.2.e	sheep	1.8.b
full	1.1.i	short	1.3.m
to get up	1.6.c	shoulder	1.1.d
goat	1.5.n	to sit	1.7.l
grass	1.5.a	six	2.f
green	1.5.p	to sleep	1.7.b
hair	1.7.m	sneeze	1.8.e
hat	1.2.d	star	1.3.u
head	1.3.a	sweat	1.2.l
heart	3.i	tea	1.2.m
horn	1.6.b	tent	1.3.h
horse	1.1.l	thin	1.5.o
hot(taste)	2.e	thirsty	1.1.c
house	1.5.j	today	1.7.o
how much?	1.2.h	together	1.3.j
I	1.7.h	tongue	1.7.d
itchy	2.h	tooth	1.4.f
jaw	1.3.n	urine	1.5.l
to kill	1.4.a	vein	1.5.c
knee	1.7.i	voice	1.3.c
knife	1.3.s	to vomit	1.1.h
leopard	2.d	waist	1.2.i
lid	1.3.b	warm	1.5.d
life	1.4.c	water	1.5.e
lip	3.i	wheat	1.2.a
liver	1.4.h	white	1.1.k
meat	1.4.g	wing	1.3.e
milk	1.6.a	wolf	1.5.k
month	1.5.h	wool	1.7.c
mother	3.g	wrist	1.8.c
mountain	1.8.a	to write	1.3.k
mouth	1.3.g	year	1.1.a
		yesterday	1.4.k
		young	1.5.b