THE PHONOLOGY OF A GYARONG DIALECT

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The Gyarong dialect whose phonological system I describe here is that spoken in Tzuta, a village formerly in the Lifan district of Szechuan (it is now in the district of Li in the Szechuan Autonomous Region for the Tibetans). I collected the material cited in 1943, while working in a research project headed by Professor Fang-kuei Li at Yenching University (Ch'engtu).

This dialect has twelve stops (k, kh, g, t, th, d, t, th, d, p, ph, b), ten fricatives (h, š, ž, s, z, r, s, z, l, l), four nasals (p, x, n, m), two semivowels (j, w), and five vowels (i, e, a, o, u). I cannot say whether tones are phonemic. When confronted with what seemed to be homonyms, my informant made distinctions on the basis of tone, e.g. tem a 'eye' with high level tones on both syllables, tem a 'steamed bread' with mid level tones on both syllables, and termi 'man' with high level tones on both syllables, termi 'a name', with high tone on the first syllable and high falling tone on the second. In connected texts, however, the tones vary, and I have been unable to correlate this variation with anything in the surrounding environment.

1. The stops, classified by point of articulation, are:

	velar	domal	dental	labial
	$\underline{\mathbf{k}}$	ţ	<u>t</u>	<u>p</u>
- K - T	<u>kh</u>	<u>ţh</u>	<u>th</u>	<u>ph</u>
	g	\dot{q}	<u>d</u>	<u>b</u>

Clusters of stop followed by fricative are:

velar		palatal	domal	dental	labial
kr	S OV.	tš	tṣ	ts	pr
\underline{khr}	$\underline{\text{khl}}$	<u>tšh</u>	tsh	tsh	phr
gr	gl	$\underline{\mathtt{d}} \underline{\mathtt{z}}$	dz	dz	br

These consonants and consonant clusters appear both initially and intervocalically, with the exception of khl, which occurs only before j (cf. below, §5). Unreleased k, t, and p also occur finally in random occurrences of some forms; in other occurrences they are absent. (For examples, see the Appendix to this article.)

2. Fricatives, single and in clusters, are:

velar	elar palatal		mal	dental		
$\underline{\underline{h}}$	<u>š</u>	ż		S	1	
	a li <u>ž</u> elesen o	<u>z</u>	<u>r</u>	Z	1	
		<u>ş1</u>	\underline{rl}	<u>s1</u>		

Semivowels are:

The fricatives and \underline{w} appear initially and intervocalically; \underline{s} and \underline{r} also appear finally. j only occurs after other consonants.

3. The nasals are:

velar		palatal	dental	labial		
Ŋ	2011	ň	n n	m of	. 1	

 \underline{p} , \underline{n} , and \underline{m} appear initially, intervocalically, and finally; \underline{n} appears only initially and intervocalically.

- 4. Certain velars and palatals, and <u>s</u> and <u>r</u>, occur in clusters in <u>-w</u>: <u>kw</u>, khw, (gw) <u>pw</u>, <u>tšhw</u>, <u>sw</u>, and <u>rw</u>.
- 5. A number of consonants and consonant clusters may be followed by <u>j</u>,

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as indicated below (note that members of the palatal series are not found in this number). wj is phonetically [ü].

Sequences in parentheses occur only in larger consonant sequences; gwj, for example, occurs only after z.

	velars		domal	3	dental		labial	
	$\underline{\mathbf{k}}\mathbf{j}$		ž/s		<u>tj</u>		<u>pj</u>	
	\underline{kwj}							
Z.	\underline{khj}		ţhj		thj		phj	
X	khwj		X-					o a mago
	gj		dj		dj		bj han sa	
	(\underline{gwj})						Lorenza de la compansión de la compansió	
	(<u>krj</u>)		ţṣj		tsj		prj	
	khrj		ţshj		tshj			
and	grj						(brj)	
	khlj							
			<u>șj</u>		sj		./2	
					swj		495	
			$\frac{zj}{z}$		zj			
					łj			
			<u>rj</u>		<u>lj</u>	(2)		
			rwj					
		plan.	<u>ṣlj</u>		slj			
			<u>rlj</u>					
	<u>pj</u>				<u>nj</u>		mj	
	<u>pwj</u>							
	<u>wj</u>							

6. The above consonants and consonant clusters, with the exception of sl,

<u>\$1</u>, and <u>r1</u>, can be preceded by s/z, $\underline{s/z}$, \underline{r} , $\underline{k/g}$, $\underline{p/b}$, \underline{m} , \underline{n} , and $\underline{\mathfrak{g}}$, as indicated in the chart below. Some of the resulting clusters occur both initially and intervocalically; some, e.g. \underline{skhj} , occur only intervocalically. The distribution of $\underline{s/z}$, $\underline{s/z}$, $\underline{k/g}$, and $\underline{p/b}$ correlates with the voiceless/voiced quality of the following consonant. Before nasals, however, only \underline{s} , \underline{s} , \underline{r} , \underline{m} , \underline{n} , and \underline{p} occur.

	s/z	s/z	r k/g	p/b	<u>m</u>	<u>n</u>	<u> </u>
velars	\mathbf{x}	X	X	\mathbf{X}	X		X
palatals	X*		X X		X	X	X
domals		X	X X	\mathbf{X}	X	X	X
dental stops and n	X	X	X X	\mathbf{X}	X	X	X
dental affricates and fricatives			X X	$\mathbf{X}/\mathbb{Z}_{2})$	X	X	X
labials	X	X	X X		X	X	X

^{*} The palatal, x, is preceded by x, not s.

(a) The velar series may be preceded by $\underline{s}|\underline{z}$, $\underline{s}|\underline{z}$, \underline{r} , $\underline{p}|\underline{b}$, \underline{m} , and \underline{p} , as follows:

$\underline{\mathbf{s}\mathbf{k}}$	$\underline{\mathfrak{s}}\underline{\mathbf{k}}$	\underline{rk}	$\underline{\mathbf{p}}\mathbf{k}$	mk	$\underline{\mathfrak{g}}\mathbf{k}$
	<u>şkr</u>			mkr	
	<u> șkrj</u>		Z		
\underline{skw}	<u> şkw</u>				
skj		<u>rkj</u>	pkj		
\underline{skh}	<u>ṣkh</u>	$\underline{\text{rkh}}$		mkh	<u>ykh</u>
	<u>şkhr</u>		\underline{pkhr}	mkhr	\mathfrak{g} khr
	<u>skhw</u>	rkhw			
skhj					
$\underline{\mathbf{z}}\underline{\mathbf{g}}$	<u>zg</u>	rg		$\underline{\mathrm{mg}}$	Ðg
	zgr				pgr
	zgrj				

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zgwj rgj spşŋ rp rŋj (b) The palatal series may be preceded by $\underline{s}/\underline{z}$ (\underline{s} before $\underline{\check{n}}$), \underline{r} , $\underline{k}/\underline{g}$, \underline{m} , \underline{n} , and n: rtš stš ktš rtšw ntšw rtšh ktšh rtšhw zdž $rd\check{z}$ mdž ndž pdž kš mš rž sň rň nx ŋň mň (c) The domal series may be preceded by $\underline{s}/\underline{z}$, \underline{r} , $\underline{k}/\underline{g}$, $\underline{p}/\underline{b}$, \underline{m} , \underline{n} , and \underline{p} : șţ kţ pţ șţj n₫⊇ rts sts kts pts mţş pts ktsj ntsj stsh ktsh mţsh nțșh nțșhj bdz mdz ndz kṣ rș mṣ ns Dż rz gz $\mathbf{p}^{\mathbf{z}}$ ŋr (d) The dental stops and nasal may be preceded by $\underline{s}/\underline{z}, \underline{s}/\underline{z}, \underline{r}, \underline{k}/\underline{g}, \underline{p}/\underline{b},$

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<u>m, n,</u> a	ınd <u>p:</u>						
<u>st</u>	<u>ș</u> t	rt	$\underline{\mathbf{k}}\mathbf{t}$	pt	mt	nt	
stj	<u>ștj</u>	<u>rtj</u>		ptj	$\underline{\mathrm{mtj}}$	<u>ntj</u>	
$\underline{\operatorname{sth}}$	<u>șth</u>	rth		pth	mth	$\underline{\mathrm{nth}}$	
\underline{zd}	$\dot{z}d$	rd d	$\leq \sqrt{gd}$ at $\log d$	и этеся	md	nd	$\underline{\mathfrak{p}}\mathrm{d}$
	zdj	$\underline{\mathrm{rdj}}$			mdj		$\mathfrak{p}d\mathfrak{j}$
<u>sn</u>	<u>șn</u>	$\underline{\underline{rn}}$					
$\underline{\text{snj}}$	şnj	rnj			$\underline{\text{mnj}}$	wšii	ŋnj
							pl
						$\underline{\mathbf{nlj}}_{2}$	

(e) Dental affricates and fricatives may be preceded by r, k, p/b, m, n, and

rts	kts	<u>pts</u>	mts	$\frac{\text{nts}}{}$	<u>pts</u>	
rtsj	ktsj (ptsj _{iss}	Й-d		XX.	Ñ.
rtsh	kle, pr. ns. c.	<u>ptsh</u>	mtsh	$\underline{ntsh}_{\text{-birgs}}$	Ismot-partT eq	
		<u>ptshj</u>		<u>ntsh</u> j		
		$\underline{\mathrm{bdz}}$	$\underline{\mathrm{mdz}}$	\overline{ndz}		
rs	<u>ks</u> [\underline{ps}	ms		<u>ps</u>	
<u>rs</u> j	ajn	\$Im	$\underline{\mathrm{msj}}$		877	EIR
rz	(\$10			[814]	$\underline{\mathfrak{p}}\underline{\mathbf{z}}$	
	gzj	rit fire		Kţşiı	dett	e te

(f) The labial series may be preceded by $\underline{s/z}$, $\underline{s/z}$, \underline{r} , $\underline{k/g}$, \underline{m} , \underline{n} , and \underline{n} :

D:

7. The vowels (<u>i</u>, <u>e</u>, <u>a</u>, <u>o</u>, <u>u</u>) all occur in noninitial position; except for <u>o</u>, they also occur initially, e.g. <u>iden</u> 'I peel, husk'; <u>ežo</u> 'he, she, it', <u>ete</u> 'that one', <u>eptshi</u> 'its outside'; <u>atshu</u> 'son-in-law', <u>urje</u> 'wage'.

Phonetically, \underline{i} is [i], \underline{a} [a], \underline{u} [u], and \underline{o} $[\mathfrak{d}]$. \underline{e} is $[\mathfrak{d}]$ —[e]. Two conditions determine the appearance of the second allophone: \underline{e} is (1) preceded by a palatal or a consonant cluster in $\underline{-j}$; and (2) not followed by $\underline{-k}$ or $\underline{-g}$.

Sandhi-produced diphthongs result when <u>i</u> or <u>u</u> are immediately preceded by the vowel of a prefix, e.g. <u>iden</u> 'I peel', <u>naiden</u> 'I have peeled'; <u>urje</u> 'wage', <u>teurje</u> 'ones' wage'.

There are restrictions on the occurrence of these vowels: (1) a does not occur after -wj-; and (2) o and u do not occur after consonant clusters which have -w-, -j-, or -wj- as their last member. Exception: khekhjui (n.pr. of a place).

The finals are:

There are also instances of final consonant clusters: <u>koms</u> 'on top of a door', senkhans 'on top of a senkhan (where images of gods are kept)'.

APPENDIX

The examples below are grouped under numbers corresponding to those of the relevant sections in the article.

1. (For examples of final consonants, see 7.)

Velars:

k-: (a kam 'the colter of a plough', kom 'door'; -k-: taku 'head', meki 'under-

kh-: khi 'dog', khui 'bowl', khen 'tiger'; -kh-: kekhui 'foolish'

g-: gokar 'a kind of woolen fabric', genbje 'a temple'; -g-: dagui 'the district of Kuàn in Szech'uan

kr-: kres 'conference'; -kr-: žiukri 'vegetable oil'

khr-: khrap 'I beat'; -khr-: dtekhru 'elbow' (1) bus is at an add turnosmos n ao

gr-: grep 'I scrape'; -gr-: pragrom 'a chicken egg'

-gl-:v teglas shuttle'q and I coli a ford I gobi was along a la love and

Palatals:

tš-: tši 'wheat', tše 'a river deer', tšu 'stone'; -tš-: etšer 'its root', tatšim

'fertilizer', ketši 'large'

tšh-: tšhe 'wine', tšhu 'village'; -tšh-: tatšhu 'wedge', khrjetšho 'pepper tree'

dž-: džu 'bamboo', dži 'south'; -dž-: tadžu 'lock'

Domals:

t-: tam 'I sew', ten 'I spread'; -t-: tete, n.pr. of a place, keto 'six', watam

th-: thezek 'resin'; -th-: tethu 'light'

d-: denbu going out', dali 'earthquake'; -d-: nedan 'I walk', tede 'skin'

tṣ-: tṣam 'house', tṣei 'here', tṣoktsi, n.pr. of a place; -ṭṣ-: teṭṣe 'water', taṭṣe

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- song', ketsar 'narrow'
- tṣh-: tṣhom 'a water bucket carried on one's back', tṣhinŋ 'I go', tṣham 'a lama's dance'; -ṭṣh-: keṭṣhi 'sweet', keṭṣhim 'thin (in diameter)'
- dz-: dzero 'cicada', dzeru 'louse eggs'; -dz-: kawadze 'to chew'

Dentals:

- t-: tam 'I beat', tan 'I boil (water)'; -t-: metan 'I see', krata, n.pr. of a place, ketu 'a wildcat'
- th: thi 'what?', thatho 'a pine tree', tharna 'a steelyard for money'; -th-: tathu 'woolen fabrics'
- d-: dut, n.pr. of a cruel man (in legends), do 'east', dedu 'a wild pigeon'; -d-: tado 'poison'
- ts-: tsoro 'socks' tsurer 'star', tsetje, n.pr. of a place; -ts-: etsi 'his life', ketsu 'monkey'
- tsh-: tshapje 'malaria', tsharei 'natron'; -tsh-: tatshiu 'sneezing', atshu 'son-in-law'
- dz-: dzaži 'flea'; -dz-: medzu 'at ones will'

Labials:

- p-: pas 'a wild animal similar to a pig', pežiu 'rat', papei 'silver', pep 'I come';
 -p-: tepo 'red hemp', tapat 'flower', lapu 'mule'
- ph-: phat 'to pick, pluck; climb over', phatak 'dumplings made of corn flour', phata 'I divide'; -ph-: taphi 'guest', epha 'half', taphan 'bosom'
- b-: baro 'horse', bertsje 'knife', ben 'I carry on my back'; -b-: babun 'a kind of insect', zebar 'wooden partition', tabem 'a pair'
- pr-: prak 'rok', prakhu 'owl', prep 'I tear'; -pr-: taprer 'supper', keprom 'white'
- phr-: phrung 'I blow', phramu 'rosary'; -phr-: tephrer 'grandson'
- br-: bren 'rhinoceros', brastak 'a kind of bee'; -br-: žabra, n.pr. of a place

2.

- h-: hanoi 'below', harnak 'a kind of bird'; -h-: tahur 'once', taham 'yawning'
- š-: šap 'I send (a gift to someone)'
- <u>ž-</u>: <u>žalu</u> 'a large calabash', <u>žantan</u> 'knowledge, learning'; <u>-ž-</u>: <u>težiu</u> 'ghost', <u>težim</u> 'a bear', <u>kežo</u> 'a goat'
- <u>ṣ</u>-: <u>ṣi</u> 'firewood', <u>ṣerṣa</u> 'fence', <u>ṣaru</u> 'bone'; <u>-ṣ</u>-: <u>taṣ</u>i 'a wealthy man', <u>keṣek</u> 'new'
- z-: zun 'I accuse (someone)', zardžin, n.pr. of a place, zandin 'puttees'; -z-: tezu 'chopsticks', tshezar 'swimming, wazi 'his sister'
- sl-: slap 'I release'; -sl-: aslu 'yesterday'
- r-: run 'I look'; -r-: teru 'horn', khara 'ant', phoran 'Peking'
- rl-: rlap 'I have no heir'; -rl-: berlen 'a carpenter's plane', terler 'yak'
- s-: sar 'louse', sanan 'good luck', sarža 'fan,; -s-: kesu 'sheep', kesom 'three'
- z-: <u>zai</u> 'ladder', <u>zan</u> 'I eat', <u>zarka</u> 'a medicinal herb'; -z-: <u>tazar</u> 'milling (flour)', <u>tazom</u> 'bridge'
- sl-: slam 'I roll up', slapen 'teacher'; -sl-: keslat 'exhausted'
- <u>ł-:</u> <u>łaskar</u> 'a head ornament made of coral', <u>łasje</u> 'Lhasa'; <u>-ł-</u>: <u>tṣhałam</u> 'leather boots'
- <u>l-: luppje</u> 'place; valley', <u>lamje</u> 'lama', <u>lenbu</u> 'tribal chief'; <u>-l-: khali</u> 'wind', <u>telu</u> 'milk'
- w-: waržet 'aight', wamtsher 'lying on one's side'; -w-: tawu 'ceremonies performed on the anniversary of a death', grawu, n.pr. of a place

3.

- <u>p</u>-, <u>pa</u> 'l'; <u>-p</u>-: <u>papei</u> 'silver', <u>tapei</u> 'sun'
- <u>m̃</u>: <u>m̃</u>i 'you (plural)', <u>m̃</u>in 'I sit down', <u>m̃</u>akprje 'meat dumpling'; <u>m̃</u>e <u>m̃</u>e <u>m̃</u> 'a tapered basket carried on one's back', <u>mem̃an</u> 'cat'
- <u>n-</u>: <u>nu</u> 'you',, <u>non</u> 'I drive (cattle)', <u>nam sek</u> 'soul'; <u>-n-</u>: <u>tanai</u> 'morning', <u>kenak</u> 'black'

m-: mezi 'gunpowder', mesnom 'girl'; -m-: temu 'sky', tami 'foot'

4.

kw-: kwa 'spade'; -kw-: sakwan 'I uproot'

khw-: khwaṣṭṣan 'silk; satin'

pw-: pwa 'to be'; -pw-: kapwu 'butter lamp' Syangular a kapwu ala .

tšhw-: tšhwan 'I return'; -tšhw-: tṣhetšhwa 'blister'

sw-: swai 'barley'

rw-: rwan 'I get up'; -rw-: terwu 'buckwheat', tarwa 'hunting and fishing'

Velars and w:

kj-: kjar 'a steelyard used e.g. for weighing meat or vegetables'; -kj-: tekjar 'sinews', tekjep 'needle'

kwj-: kwje 'kitchen' a mo man foundale m r-litat- i quado minimum rojdar

-khj-: khekhjui, n.pr. of a place, tekhje 'mouth'

khwj-: khwje 'bedroom'

gj-: gjan 'I shout'; -gj-: zegje 'saddle'

khrj-: khrjetšho 'pepper tree'; -khrj-: kestšalakhrje 'of variegated colors'

-grj-: wegrje 'the lower level'

-khlj-: tekhlje 'the upper arm'

nj-: njan 'I have intercourse with someone', njesu, n.pr. of a place
 -nwj-: njwje 'cow'

wj-: wjan 'I wear'; -wj-: sawje 'a wild deer', kewje 'thin', tewjet 'clothes'

Domals:

țhj-: țhjewu 'pen, stable'

-dj-: žedje, 'name of a tree'

tsje: tsjerje, n.pr. of a place; -tsje: patsjep 'bitter', ketsje 'poor', danse same

-tshj-: satshje 'world'

ṣj-: ṣje 'meat; flesh'; -ṣj-: ṣṭauṣje 'a kind of mushroom'

zj-: zje 'to fall'

rj-: rje 'to want'

-rwj-: tarwjet 'get up!' parwje 'a vessel used in religious ceremonies'

-ṣlj-: (ka)waṣlje 'slippery'

-rlj-: arlje 'bean curd'

Dentals:

tj-: tjan 'I boil (water)', tjanden 'a small copper bowl for pure water (for religious purposes)'; -tj-: tatjar 'stick', tesatjak 'belly; stomach'

-thj-: tethje 'book'

-dj-: medja 'he arrives' to hu a goudanew to huse basedona a' aspl t-pa

-tsj-: petsjar 'warm season', ketsje 'grass', metsjak 'to jump'

tshj-: tshjar 'mountain sheep'; -tshj-: ratshjan 'I aim (at something)'

sj-: sjap 'I search', sjan 'I kill'; -sj-: tasjet 'hemp'

-swj-: teswje 'tooth', tšhaswje 'the dregs of wine'

zj-: zjan 'I eat'

tje 'Buddha; god' to problement regulate is at range of patricial regulation

lj-: ljan 'I do it'; -lj-: kalje 'rabbit'

slj-: sljam 'I roll up'

-nj-: panjap 'I am busy', wanjan 'I light; I kindle'

Labials:

pj-: pjak 'pig'; -pj-: kepjar 'jackal'

phj-: phjan 'I divide'

-bj-: kebjar 'leech'

prj-: prje 'fowl'

-mj-: samjan 'I request, ask for'

(a) Velars:

with s/z as first member:

sk-: skap 'I boil (meat)', skarkhui, 'name of a tree'; -sk-: esku 'its upper side'

skw-: skwam 'to hatch (eggs)'

skj-: skjap 'I boiled (meat)'; -skj-: eskje 'his voice', teskjar 'baked flour'

skh-: skhin 'I gouge out'

-skhj-: laskhje 'a seal'

zg-: zgon 'I want to', zgermu 'moss'; -zg-: tazgular 'a hunchback'

-zgwj-: sazgwje, 'name of a tree'

sp-: spar 'frost'

With s/z as first member:

şk-: şku 'garlic' şkom 'a kind of deer'; -şk-: waşki 'to burn', taşkai 'scorched'

<u>skr-</u>: <u>skrap</u> 'I sift (with a sieve); I am intelligent'; -<u>skr-</u>: <u>teskru</u> 'body', <u>eskrai</u> 'his side'

-skrj-: kaskrje 'to sift (with a sieve)'

skw-: skwan 'I dig out'

-ṣkh-: teṣkhur 'sore', peṣkhai 'just now'

-şkhr-: keşkhrei 'long'

skhw-: skhwak 'a noise'

zg-: zgen 'I chop down'; -zg-: pazguram 'sausage'

-zgr-: ezgra 'bracelet'; pazgro 'fast', ezgra 'its nest'

-zgrj-: ezgrje 'his voice', wezgrje 'the lower level'

-ṣŋ-: (ke)waṣŋom 'fragrant'

With r as first member:

rk-: rkan 'I engrave', rken 'I put in'; -rk-: tarku 'boxing'

-rkj-: tarkje 'mule', merkjau 'you put on; the puts on', kherkje 'dust'

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-rkh-: markhan, n.pr. of a place, skarkhui, name of a tree

-rkhw-: werkhwak 'its husk'

rg-: terga 'grain'

-rgj-: targje 'dancing and singing', nargjan 'I play' or datament and singing', nargjan 'I play' or datament and singing',

rn-: rnan 'I borrow'

rnj-: parnje 'a wild pig'

With p/b as first member:

pk-: pkun 'I carry on my back', pkan 'I am satiated (with food)'; -pk-:
sepkan 'I cover'

-pkj-: wapkje 'its covering', wepkje 'the law of His Majesty'

pkhr-: pkhrat 'to assess', pkhran 'I assess'

With m as first member:

-mk-: temki 'neck', tamkan 'pillow'

-mkr-: tamkra 'crosswise'

mkh-: mkhan 'I am able to do it'; -mkh-: namkhu 'few'

-mkhr-: temkhrer 'bile'

mg-: mgen 'I am fed up with, tired of'

-mp-: kempo 'five', kampam 'lying on one's belly'

With n as first member:

-ŋk-: waŋkai 'to chew'

-<u>pkh</u>-: <u>tepkhu</u> 'behind'

-pkhr-: tepkhru 'charcoal'

ng-: ngan 'I support, supply'; -ng-: kengu 'nine', tangu 'back'

-ngr-: khatsar tshingran 'a solution for pickling vegetables'

-nwj-: samangwje, n.pr. of a place

(b) Palatals:

With s/z as first member: o sug ob me tog boy' uslyrom delan a first seeking seeking as first members of the sign of the sign

stš-: stšak 'eagle', stše 'a tripod which supports a pot', stšipje 'assembly of lamas'; -stš- estšulak 'vomitting', kestše 'previously', tastšu 'writings and paintings'

zdž-: zdži 'wall', zdžim 'cloud'; -zdž-: tazdžam 'cloudy'

With s as first member:

sɨ -: sɨ e 'mouth', shali 'flute'; -sɨ -: teṣ han 'nasal mucus', keṣ hit 'seven', teṣ hit 'heart'

With r as first member:

rtš-: rtšim 'I bind'; -rtš-: tartši 'hat', khartšak 'magpie', mertšu 'gray thrush'

-rtšw-: zartšwai, 'n.pr. of a place'

rtšh-: is rtšhap 'Is peel's mad one is quely supplicated a duzle, man iste

rtšhw-: rtšhwan 'I roll up my sleeves'

rdž-: rdže 'a wild mule'; -rdž-: kherdži 'earthworm', merdžen 'I swallow', kerdžom 'wide'

rž-: ržin 'I plant'; -rž-: perže 'hundred', warže 'eight'

-rǔ-: tarŭi 'gold', tarŭan 'mud', tarŭek 'hair', kerŭak 'deep'

With k as first member:

ktš-: ktšap 'I take out', saktše, 'n.pr. of a place'

-ktšh-: kekt[‡]hi 'far'

-kš-: ŋakšar 'clear'

-mdž-: temdže 'the lower jaw'

-mš-: temši 'liver'

mɨd-: mwan 'it is not I', mwatsu 'yoke'; -mi-: temwa 'eye; steamed bread', temwe 'field', samwe 'bow', emwe 'by the side'

With n as first member:

-ntšw-: tentšwe 'a kind of knife'

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The phonology of a Gyarong dialect
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-ndž-: nandžap 'I throw away'

-nž-: smanžo 'a lama's skirt-like garment'

-nı-: smanıingkhui, n.pr. of a place

With p as first member:

-ŋdž-: phandže, name of a 'house', thandže 'a shovel for the fire'

-pň-: sepňap 'I prepare'

(c) Domals:

With $\frac{1}{2}$ as first member:

st-: 'varnish tree', stan 'I measure', stausje 'a kind of mushroom'

-stj-: testje 'sweat'

sts-: stsi 'ten', stsep 'I exchange', stsap 'I see him off'; -sts-: kestsi 'wet', khwastsan 'silk; satin', khestsek 'leopard', nestsap 'I ride (horseback)'

stsh-: stshen 'I go'

With r as first member:

rțș-: rțșip 'I wash'; -rțș-: merțși 'flame'

-rṛṣh-: tarṛṣhek 'a little while' and and and an about the company of the

-rṣ-: ṣerṣa 'fence'

-rz-: tarzek 'wrinkle', warza 'branch'

With k/g as first member:

kt-: ktep 'I carry'

kts-: ktsen 'I crowd (other people)'; -kts-: žaktsan 'stirrtp', kektsin 'near'

-kṛṣj-: temokṛṣjerei 'uvula'

-kṭṣh-: tepakṭṣhu 'navel'

kṣ-: tekṣat 'to come', kṣeṇ 'I come'; -kṣ-: tekṣat 'strength', ṣakṣo 'paper'

-gz-: tegzo 'sexual organ'

With \underline{p} as first member:

pti: ptip 'I walk'; -pt-: sapta 'sixteen' 'siled to make the walker' -wa

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pṛṣ-: pṛṣalak 'thing, object', pṛṣiṇ 'I pay the balance of an account', pṛṣaṇ 'I ise'; -pṛṣ-: tshipṛṣu 'a festival in the seventh lunar month'

bdz-: bdzamku 'green' ipromoc od bulb est, but alan i est

With m as first member:

mts-: mtsen 'it bites me'; -mts-: temtsek 'fire', kemtser, 'mill'

-mish-: temishi 'lips' and to all and frued one of receivered and is

-mdz-: temdzek 'robbing', memdzep 'I rob'

mṣ-: mṣam 'I worship'; -mṣ-: namṣek 'soul' and a second a

With n as first member:

nd-: nden 'I chass after (someone)'; -nd-: wandai 'his friend', tandi 'a strip', dandai 'please eat!'

-nts-: tantsi 'one of a pair' White plague -dia- identical modifie

-nțsj-: tanțsje 'the shady side of a mountain' Nacha ar I nav

nțsh-: nțshan 'I kill', nțshin 'I select'; -nțsh-: tanțshi 'pillar', kanțshai 'market'

-ntshj-: kantshje 'to kill'

n dz-: ndze 'you (two)'; -ndz-: kandze 'tin'aliemes and it is it is

-nṣ-: dzemkanṣi 'a kind of fruit tree'

With <u>p</u> as first member: where we have declarated and the proof of the members and the second of th

-nts-: sentsan 'a large tree'

-pṣ-: rapṣar 'original' and what a subspace of many or many as

-pz-: and sepzi 'the ruler of Hell'

-pr-: stupro 'a kind of bird's amount and have the superior to the

(d) The dental stops and nasal:

With s/z as first member: With s/z as first member: With s/z as first member: With s/z as first member:

st-: stut 'an image of Buddha', staskui 'a rope connecting yoke and plough', stalar 'pea', stangak 'a long, embroidered robe worn by lamas'; -st-: tasto 'an earthen jar', tastai 'bladder', sastu, n.pr. of a place, tshastup 'a

mortar for grinding salt'

-stj-: tastje 'saluting to mandarins'

sth-: sthan 'I take out', taso sthide 'one morning'

zd-: zdode 'later on', zdazen 'lunar eclipse', zdagan 'a lama's robe'; -zd-: tazdek 'one section', wezdar 'its fat'

sn-: snipnje 'festivals in the fourth and eighth lunar months', sneimok 'a kind of mushroom'; -sn-: kasnan 'trousers', wesenapwje 'her lover'

-snj-: kesnje 'good', wasnjan 'I make it good'

With <u>\$\sqrt{z}</u> as first member:

st-: stap 'I hide, store away'; -st-: testu 'female sexual organ'

stj-: stjan 'I deposit'; -stj-: ustjau 'you store away; he stores away'

sth-: sthen 'I stretch'; -sth-: testha 'girdle'

zdan 'I am afraid'

zdj-: zdjap 'I am afraid' ut -dana i ocean a dana had li ocean - date

-ṣn-: teṣnapa, teṣnapak 'lips'

snj-: snjap 'I return (something)'

With \underline{r} as first member:

rt-: rtam 'I fold', rten 'I am unfortunate'; -rt-: tarta 'hoop', tshartan 'pagoda'

-rtj-: zertje, n.pr. of a place, tatartja 'a layer'

-rth-: kasarthom 'to put in order', takurthu 'hair of the head'

rd-: rdan'I untie', rden 'I am tired'; -rd-: nardun 'I meet', barda 'ringworm'

rdj-: rdjap 'I loosen'; -rdj-: pardjan łamu, n.pr. of a god, terdje 'the process of thatching a roof'

-rn-: ternom 'brain', tsharna 'rain', tarnom 'rib', kernek 'silverfish (the insect)', sarna 'dysentery'

-rnj-: sewurnjap 'I make it red', ternje 'ear'

With k/g as first member:

kt-: ktap 'I scatter'; -kt-: tektu 'belly; stomach', thaktan 'rent'

gd-: žagden 'a beam'

With p/b as first member:

pt-: pten 'I hurt (someone)'

-ptj-: septjan 'I remember'

pth-: pthaskur 'a head ornament made of coral'; -pth-: wapthis 'near his feet'

With m as first member:

-mt-: temto 'forehead', temte si, 'name of a tree,' emtui 'by the side'

-mtj-: kamemtje 'to talk in one's sleep'

-mth-: temthak 'waist', tamthan 'food: cooked meat and vegetables, but not rice', temthu 'hair of the head', emthe 'profit'

md-: mdan 'it stings me', mdamje 'woman', mdak 'fashion, manner'; -md-: temdau 'nephew', temdar 'stinging', temde mu 'widow'

-mdj-: tamdjak 'once', temdje, n.pr. of a place

-mnj-: apamnje, 'name of a house'

With n as first member: With a second second

-nt-: kantu 'lying face up', žantan 'knowledge, learning'

-ntj-: pantje 'level'

nd-: ndut 'to have'; -nd-: sandai 'day after tomorrow', kendu, n.pr. of a place, zinda 'host' tsandar 'sandalwood'

nlj-: tsanlje, n.pr. of a place

With <u>n</u> as first member:

-pd-: zandin 'puttees', tshandar 'flint and iron for starting a fire'

-pdj-: stupdjan meto, name of a flower with a second described as a second

-nj-: sninje 'festivals in the fourth and eighth lunar months', karenje 'to hear'

-pl-: tshaplap 'a hand bell'

(e) Dental affricates and fricatives:

With r as first member:

rts-: rtsip 'I count'; -rts-: tartsu 'an insane person', kertsu 'the cold season,

-rtsj-: sertsje 'apricot', tertsje 'pulse'

-rtsh-: tertsha 'lungs'

-rs-: tersa 'life'

-rsj-: narsja 'to be ashamed', narsjan 'I am ashamed'

-rz-: tarzek 'a section of a road', skarzan meto, 'name of a flower'

With k/g as first member:

-kts-: tshaktso 'locust', tshaktsi 'a kind of bird'

-ktsj-: tektsje 'shoes' blad i mende begoedhet was en de del

ks-: ksep 'I roast' and about a deputed right of the section of the

-gzj-: pagzje 'food for pigs' sadiq to be against because the

With p/b as first member:

-pts-: teptsiu 'marrow', keptsi 'arrow', taptsa 'armpit', taptsiu 'cushions'

<u>ptsj-</u>: <u>ptsjemar</u> 'a kind of bird', <u>ptsjap</u> 'I hold, catch', <u>ptsjeru</u> 'coral beads';
 -ptsj-: <u>saptsja</u> 'broom', <u>taptsja</u> 'braid, queue'

<u>ptsh</u>-: <u>ptshu</u> 'lake, sea', '<u>ptshimje</u> 'Hell', <u>ptshin</u> 'I lose money'; <u>eptshi</u> 'excrement', saptshi 'turban', <u>paptshi</u>tutu 'a kind of bird'

ptshj-: ptshjak 'to kowtow'; -ptshj-: taptshjar 'one sheet (of paper)'

bdz-: bdzaler, n.pr. of a place; -bdz-: tebdzu 'thorns'

-ps-: tshapsap 'defecating'

With m as first member:

-mts-: temtso 'lunch', ramtsu 'button', volt a his causa cotton reglace

-mtsh-: wamtsher 'lying on one's side'

-mtshj-: kemtshjar 'beautiful'

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-mdz-: kamdzo 'to fast', samdzen 'close your mouth!'

-ms-: kawamso 'wedge', tšamso 'a musk deer'

-msj-: zamsje 'saluting lamas'

With n as first member:

-nts-: rantsin 'I cut'

-ntsh-: nentshop 'I lick'

-ntshj-: nentshjon 'I lick', wantshjan 'a cupboard for kitchen utensils'

-ndz-: tandzi 'a long, protruding tooth', tandza 'a little bit', kasatsendzak 'to connect'

With n as first member:

-nts-: tatentsi 'one ch'ién (a unit of weight)'

-ps-: sansi 'breath'

-ŋz-: tšupzo 'stone stairs'

(f) Labials:

With $\underline{s}/\underline{z}$ as first member:

sp-: spat 'incense', span 'glue', sper 'shrub', spu 'roof', spemje, 'name of a tree'; -sp-: khaspa 'basket', taspu 'pus', waspar 'his capital', waspai 'underneath'

-spj-: džaspje 'much; many'

-zb-: tazbo 'brothers', wazbo 'its nest'

sm-: smanžo 'a lama's skirt-like garment', smanžinkhui, n.pr. of a place, smak 'wooj', sman 'medicine', smerer 'a wild willow tree'; -sm-: nasmi 'ripe, cooked'

With \$/z as first member: and a sign of the same transfer and a quadrant section

sp-: span 'I know how to do it', spen 'I feed'; -sp-: khespet 'domestic animals'

-spr-: užaspret 'to change, become'

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The phonology of a Gyarong dialect
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spjan 'I am thirsty'; -spj-: khaspje 'a kind of frog', despjan 'I am thirsty'

zb-: khazbalulu 'butterfly'

-zbr-: tazbrok 'kicking'

-zbj-: tezbje 'chin'

şm- şmon 'I mix and knead the dough'; -şm-: raşmin 'I talk', teşmi 'tongue'

With r as first member: I be broken a reliable to the broken are reliable to the broken are reliable.

-rp-: tarpi 'chanting prayers', tarpom 'ice', terpet 'seed'

-<u>rpj</u>-: <u>sarpje</u> 'a kind of axe', <u>taterpjet</u> 'one catty', <u>tarpjak</u> 'shoulder', <u>marpjap</u>

'I carry on my shoulder'

-rph-: terphu 'a fir tree', tekharpha 'cheek'

-rb-: lerbu 'jewel, precious object', terbo 'drum'

rm-: rman 'I sleep'; -rm-: termi 'man', tarmo 'dragon', termu 'hail', smermu 'specter', kharmu 'leather bellows'

-rmj-: karmje 'to sleep'

With k/g as first member:

-kp-: lakpat 'sleeve'

-kpr-: tekprei 'message'

-kprj-: ĭakprje 'meat dumpling'

-kpj-: tephakpjet 'thigh'

-kph-: takphu 'a flock', sakphu 'tree'

With m as first member:

-mp-: wempu 'outside'

mph-: mphan 'I buy', mphon 'I wrap'; -mph-: temphas 'vomitting'

mphrj-: mphrjen 'I repair' as a sage as a sage

mphj-: mphjan 'I sell'; -mphj-: memphjan 'I vomit'

-mb-: wembu 'his body'

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tembra 'weeding', sambra 'a small spade'
-mbrj-: tšhimbrje 'temple'
-mbj-:
       tambje, n.pr. of a place
With n as first member:
-nb-:
       lenbu 'tribal chief', denbu 'going out'
       lenbu karatanbje, 'a personal name'
-nbj-:
With n as first member:
       sappu 'calabash'
-pp-:
       luppje 'place; valley', tuppje 'apron'
-ppj-:
-pph-:
       kapphu, n.pr. of a place
-pb-:
       lanbutshi 'elephant'
-ŋm-:
       tunmar 'a long trumpet', manmi 'soldier'
       kunmje 'emperor'
-nmj-:
7.
       khi 'dog', tši 'wheat; excrement', zdži 'wall'
-i:
       tažiu 'face'
-iu:
-is:
       wapthis 'near his feet'
←ir:
       tažir 'shadow; soul'
-ip:
       kartšip 'to bind, wind'
       zdžim 'cloud'
-im:
-it:
       waržit 'his shadow'
-in:
       zandin 'puttees'
-ik:
       karantsik 'to cut'
-iŋ:
       tsin 'I say'
       kwje 'kitchen', khre 'rice', khwje 'bedroom', stše 'a tripod which supports
-e:
       a pot', tšhe 'wine' rdže 'a wild mule'
       khorei 'snake', nardžei 'we/you/they run'
-ei:
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The phonology of a Gyarong dialect
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-eu: keu 'you buy; he buys'

-es: kapes 'tinder'

-er: ser 'drill, awl', sper 'shrub', nardžer 'we two/you two/they two run'

-ep: tep 'to sew', tekjep 'needle'

-em: tem 'I sew'

-et: terpet 'seed', tatarpjet 'one catty'

-en: slapen 'teacher', natjen 'to be placed somewhere', kapen 'you come here'

-ek: komtek 'bolt (of a door)', kanardžek 'to run'

-en: khen 'tiger', bren 'rhinoceros', nardžen 'I run'

-a: kwa 'spade', zgra 'bracelet', ptshja 'kneeling', tersa 'life'

-ai: swai 'barley', zai 'ladder'

-au: temdau 'nephew'

-as: pas 'a wild animal similar to a pig', khepas 'a food fly'

-ar: khjar 'steelyard', spar 'frost' tshjar 'mountain sheep', sar 'louse', wezdar 'its fat'

-ap: tap 'to beat'

-am: kam 'the colter of a plough', tsham 'a lama's dance'

-at: spat 'incense'

-an: span 'glue', brestan 'a cushion by the fireplace'

-ak: stšak 'eagle', prak 'rock', smak 'wool'

-an: menan 'cat', pan 'I do'

-o: tewo 'a pond where buffalos drink'

-oi: <u>namoi</u> 'your throat'

-or: kapkor 'to carry on one's back'

-om: skom 'a kind of deer', som 'iron', kom 'door', žom 'pot, pan'

-ot: bot 'Tibet'

-on: nažon 'to wait for you' and apalities are a particular to

-ok: kasok 'to cut'

-on pkon 'I carry on my back'

-u: sku 'garlic', rgu 'a large rock', tšu 'stone', džu 'bamboo', tshu 'stove',

ptshu 'lake; sea', spu 'roof'

-ui: khui 'bowl'

-us: wakus 'on his head'

-ur: kapkur 'to carry on one's back'

-up: tup 'to beat'

-um: tum 'I beat'

-ut' stut 'an image of Buddha', dut n.pr. of a cruel man (in legends), ndut

'to have'

-un: rkun 'I put in'

-up: pkup 'I carry on my back'