

**Henrik Liljegren**

Department of Linguistics, Stockholm University, Sweden  
*henrik@ling.su.se*  
 with

**Naseem Haider**

Forum for Language Initiatives, Islamabad, Pakistan  
*naseem@fli-online.org*

Palula is an Indo-Aryan language spoken by approximately 10,000 people in the southern part of Chitral District in Pakistan’s North-West Frontier Province. It belongs to a group of speech varieties subsumed under the heading Shina (Morgenstierne 1941; Strand 2000–2001). The speech described here is that of Ashret Valley, one of two main dialects of Palula. The transcription is based on a recording of the speech of the second author, Naseem Haider, himself a native speaker of Palula, born in 1978; his speech is typical of Ashreti, or southern, Palula.

The story of the North Wind and the Sun was translated into Palula by Sher Haider and Naseem Haider, and the orthography given here was initially approved by Anjuman-e-Taraqqi-e-Palula (the Society for the Promotion of Palula) in 2003, and further developed by a local literacy committee while setting up a mother-tongue education programme.

## Consonants

	Bilabial	Dental	Retroflex	Palatal	Velar	Uvular	Glottal
Plosive	p b	t d	ʈ ɖ		k g	(q)	
Nasal	m	n	ɳ				
Affricate		ts	[ʂ]	tʃ			
Fricative	(f)	s z	ʃ (ʒ)	ç z	x ɣ		h
Flap		r	ɽ				
Approximant	w			j			
Lateral approximant		l					

The voiceless uvular (or postvelar) plosive /q/ occurs almost exclusively in Perso-Arabic loans and is only pronounced distinctly postvelar by educated speakers – and even then inconsistently – whereas many speakers use a velar fricative pronunciation [x], thus not contrasting it with /x/. A labiodental /f/ occurs in recent loans from Urdu and English. Many Palula speakers pronounce it as [p<sup>h</sup>] rather than [f]. The word /faajdá/ ‘benefit’ is, for instance, realized as [p<sup>h</sup>a:jdá] or [fa:jdá]. The voiced retroflex fricative /ʒ/ is frequency-wise a marginal phoneme, but is included for the sake of completeness. The fricatives /z x ɣ/ are relatively frequent in present-day Palula, although they are found, to a large extent, in vocabulary borrowed from other languages spoken in the region.

Many of the dental consonants are interdental. The dental plosives, for instance, are pronounced with the tip of the tongue touching the lower as well as the upper teeth, and the dental fricatives and affricates are produced with the tip of the tongue against the lower teeth, whereas the flap /ɽ/ is produced at the alveolar ridge very close to the upper teeth.

In some descriptions of closely-related languages (Schmidt & Kohistani 2008: 16), the retroflex consonants are called ‘retracted’ and it is uncertain whether these consonants in the languages of the mountainous region of northern Pakistan are retroflex in the same sense or to the same extent as in the main languages of the Subcontinent or in Dravidian languages. In Palula pronunciation, the tongue is only slightly curled back and a constriction is made with the tip or the underside of the tongue in the alveolar region, but rarely further back in the oral cavity.

The palatal consonants are more precisely described as alveolo-palatal, with the blade of the tongue applied against the area covering the rear part of the alveolar and the front part of the palate, and with the tip of the tongue behind the lower teeth. They are not radically grooved.

p	píili	‘drank (F)’	cópu	‘navel’	tip	‘drop’
b	bíidi	‘many (F)’	zabál	‘iron bar’	dáab	‘plain’
f	fásil	‘crop’	xafá	‘upset’	maáf	‘excuse’
m	míica	‘men’	hiimaál	‘glacier’	bráam	‘joint’
w	wíiwaj	‘wife’s brother’	heewaánd	‘winter’	(g <sup>h</sup> aáw	‘cow’)
r	reetí	‘nights’	béeriş	‘summer’	angóor	‘fire’
l	léedi	‘found (F)’	balíi	‘roof end’	tç <sup>h</sup> aál	‘goat kid’
t	téeti	‘hot (F)’	p <sup>h</sup> útu	‘fly’	baát	‘word’
d	déedi	‘father’s mother’	léedi	‘found (F)’	cid	‘coldness’
n	néeri	‘stream bed’	záanu	‘person’	sóon	‘pasture’
s	seeti	‘looked after (CV)’	búusi	‘kiss’	deés	‘day’
z	zeerí	‘supplication’	baazóor	‘bazaar’	angreéz	‘Brit’
ts	tsiipi	‘squeezed (CV)’	bútsu	‘stick’	uts	‘spring’
ç	céemi	‘spleen’	húuci	‘wind’	díic	‘village’
tç	tçeeri	‘spouted jug’	kuteúru	‘dog’	baalbátç	‘child’
z	zéeli	‘bore (F)’	béezi	‘heifer’	ráaz	‘rope’
j	jíiti	‘sheep’	l <sup>h</sup> áaja	‘will find’	(babaáj	‘apple’)
ʈ	ʈaaká	‘call!’	beeʈi	‘lamb’	báaʈ	‘stone’
ɖ	ɖaaká	‘robbery’	géeɖi	‘big (F)’	haáɖ	‘bone’
ɳ	—		déeɳi	‘calf (of leg)’	b <sup>h</sup> eéɳ	‘sister’
ʈ	—		déeʈi	‘beard’	kiroóʈ	‘chest’
ʂ	séeti	‘disputed (F)’	k <sup>h</sup> aʂii	‘hoe’	báaʂ	‘rain’
ʐ	zámí	‘sister’s husband’	ʈʂaŋzá	‘torch’	ríiz	‘track’
ʈʂ	ʈʂiinkí	‘twittered (CV)’	téeʈʂi	‘wood chisel’	d <sup>h</sup> ráaʈʂ	‘grape’
k	katí	‘how many?’	bakáara	‘flock’	qóok	‘back’
g	gaɖí	‘taken out (CV)’	sigal	‘sand’	p <sup>h</sup> aág	‘fig’
x	xatí	‘letters’	maaxaám	‘evening’	mux	‘face’
q	qisá	‘story’	alaaqá	‘area’	açáq	‘love’
ɣ	yeerí	‘caves’	kaaɣaáz	‘paper’	baáy	‘garden’
h	harí	‘removed (CV)’	kuhí	‘well’	—	

With respect to frequency, the voiceless plosives can be considered the unmarked subset of plosives, occurring almost twice as often as their voiced counterparts. The voiced plosives seldom occur word-finally, and when they do, they tend to be devoiced. Intervocally, plosives can be slightly fricativized.

There are only three fully contrastive nasals – bilabial, dental and retroflex – whereas phonetically at least five places of articulation are attested. There is, for instance, insufficient proof to regard a velar nasal [ŋ] as a phoneme independent from /n/, as it only occurs before the velar plosives /k/ and /g/, or as a variant pronunciation of /ŋg/: [ŋg] ~ [ŋ].

Affricates occur at three places of articulation, but with respect to frequency the dentals are more limited as compared to the other two. The missing voicing contrast is partly explainable by an overlap or neutralization between the affricate and fricative sets (which is also the reason why we present the affricates adjacent to the fricatives in the chart). This asymmetry within the class of affricates/fricatives seems to exist in a number of other languages in northern Pakistan (Zoller 2005: 34). There is also a less consistent neutralization of the contrast between voiceless (aspirated) dental and retroflex affricates and their voiceless fricative counterparts (not affecting the palatals), apparently limited to certain lexical items: /aaʂaár/ ‘apricot’ is, for instance, alternatively realized as [a:ʂǎ:r] and [a:ʂʰǎ:r].

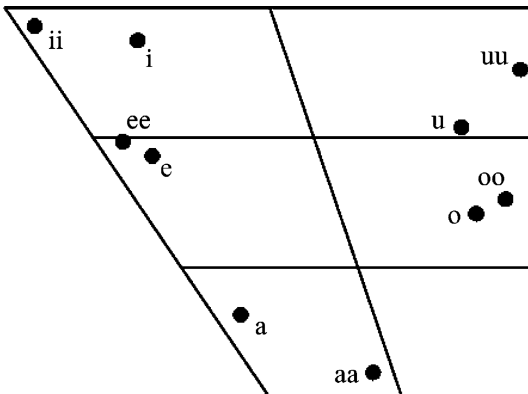
What we have chosen to describe as a voiced palatal or alveolo-palatal fricative /z/ is alternatively realized as [ʒ] and as an affricate [dʒ] (often with the latter pronunciation intervocally), whereas /z/ seems to occur consistently as [z] and never with an affricate pronunciation. As already pointed out, the voiced retroflex fricative /ʒ/ is infrequent, occurring only in a handful of words. An even more infrequent voiced retroflex affricate [dʒ], possibly an allophone of /z/, has been recorded in a couple of lexical items, one of them [dʒaʱaŋdʒa:ɾ] ‘chain’.

There is a strong affinity between /h/, occurring alone in syllable onsets, and aspiration /<sup>h</sup>/ as a feature concomitant with a consonant (see section ‘Aspiration and breathiness’ below). Historical occurrences of word-medial /h/ through movement to syllable onsets have often been reinterpreted as (particularly voiced) aspiration in Palula. In the present language, /h/ only rarely occurs intervocally. When it does occur in that position, an interpretational ambivalence often arises: [rahi:] ‘footprints’: /r<sup>h</sup>ajji/ or /rahi:/. Therefore, /h/ and /<sup>h</sup>/ can be seen as expressing one and the same suprasegmental feature.

In the speech of the second author, the front-most approximant /w/ is usually pronounced bilabially [β], but with many speakers this phoneme seems to alternate between a bilabial and something close to a labiodental [v] pronunciation. The approximants /w/ and /j/ are challenging in terms of interpretation, and are in various ways susceptible to articulatory variation, especially when occurring intervocally and word-finally. Preceded by a back vowel, the lateral approximant /l/ is being velarized, but only markedly so in the northern dialect.

The occurrence of word-initial /ŋ/ or /ɽ/ is questionable or at best marginal. /ɽ/ is used by some speakers word-initially in a shortened form of some of the demonstratives, where it alternates with /l/, as in /ɽo/ ~ /lo/ ‘that’ (from /aɽó/) and related forms. The occurrence of word-final approximants /w/ and /j/ is a matter of interpretation (as indicated by the parentheses).

## Vowels



Phonologically, Palula has a ten-vowel system comprising five basic qualities, each having a short and a long counterpart (here written with a single vowel symbol and a double-written vowel symbol, respectively, to facilitate the marking of moraic accent).

The chart represents target articulations of the vowels, all of which take on more centralized qualities in natural and connected speech. The short vowels /i/, /a/, and /u/, in particular, tend to be centralized as compared to their long counterparts. The short /i/ is not necessarily more open than the long /ii/, but has a rather more central pronunciation; the short /u/ on the other hand is both more open and slightly more central than the long /uu/; the short /a/ is also slightly less open and more fronted than the long /aa/. Phonetically, there is a significant difference between short and long vowels. The duration of a long vowel, such as /aa/, as compared to its short counterpart, /a/, etc., is not just slightly longer but usually at least twice the duration.

i	gir	‘Turn around!’	ii	giír	‘saw’
	tíki	‘bread’		tíiŋi	‘sharp’
e	preŋ	‘mother-in-law’	ee	keéŋ	‘cave’
	téka	‘peaks’		teeká	‘labour’
a	çak	‘doubt’	aa	taaká	‘Call!’
	táka	‘blame’		káaŋ	‘ear’
u	sum	‘dry mud’	uu	t <sup>h</sup> úuŋi	‘pillar’
	t <sup>h</sup> úki	‘spittle’		kúuŋ	‘corner’
o	k <sup>h</sup> oŋɖ	‘Speak!’	oo	ʃooká	‘Push!’
	tróki	‘worn out’		kóoŋ	‘arrow’

A convincing and consistent contrast between oral and nasalized vowels (as shown for Gilgiti Shina, Radloff 1999: 19) has not been found. Instead, nasalization seems to be a marginal suprasegmental feature of a limited number of lexemes (Liljégren 2008: 73–74). Apart from those, nasalization is a non-contrastive phonetic property of vowels occurring adjacent to a nasal consonant.

Environment as well as accent (see section ‘Pitch accent’ below) further influences the exact pronunciation of each of the ten vowels. Neutralization takes place between short unaccented /a/ and /e/, as well as between short unaccented /u/ and /o/.

### Aspiration and breathiness

Aspiration is best considered a property of the lexical stem, rather than as a segment or a secondary articulation of any one segment. The feature occurs only once in a (phonological) word, in a majority of cases word-initially, and is transcribed [ʰ]. Some minimal pairs illustrate the contrastiveness of this feature:

b <sup>h</sup>	b <sup>h</sup> óola	‘were able to’	vs.	b	bóola	‘hair’
k <sup>h</sup>	k <sup>h</sup> aréeŋi	‘bolt’	vs.	k	karéeŋi	‘leopardess’
w <sup>h</sup>	w <sup>h</sup> i	‘will come down (3SG)’	vs.	w	wii	‘water’

All Palula consonant phonemes – except the voiceless fricatives /s ʃ ç/, the distributionally limited /t ɲ/, and the ‘new’ phonemes /x ɣ q/ – can be accompanied by aspiration, particularly at syllable onset:

p <sup>h</sup>	p <sup>h</sup> éepi	‘father’s sister’	z <sup>h</sup>	z <sup>h</sup> aát	‘goat’s hair’
d <sup>h</sup>	d <sup>h</sup> ut	‘mouth’	l <sup>h</sup>	l <sup>h</sup> oóŋ	‘salt’
t <sup>h</sup>	t <sup>h</sup> óŋgi	‘axe’	m <sup>h</sup>	m <sup>h</sup> aás	‘meat’
tç <sup>h</sup>	tç <sup>h</sup> éeli	‘goat’	j <sup>h</sup>	j <sup>h</sup> úŋɖi	‘stick’

The voiced aspirated sounds are normally phonetically realized with breathy voice during their release, and/or the vowel that immediately follows is pronounced with (at least partial) breathy voice: [b<sup>h</sup>ô:la]. The voiced aspiration or ‘breathiness’ is also somewhat mobile within the syllable, and for some words even beyond the realm of a single syllable.

The contrastiveness of aspiration when co-occurring with the affricates /ts/ and /tʃ/ is somewhat doubtful and would deserve further and more detailed investigation. At least for the latter, it seems, it is by ‘default’ more or less clearly aspirated. A similar hesitation has been expressed on the /tʃ/ ~ /tʃ<sup>h</sup>/ contrast in neighbouring Khovar (Endresen & Kristiansen 1981: 239).

### Pitch accent

A phonological word in Palula may carry one, and only one, accent. Phonetically the accent is primarily realized as relatively higher pitch, accompanied to some extent by higher amplitude. Generally speaking, in a single word, accent is associated with high pitch, and the corresponding lack of accent is associated with low (or default) pitch. The accent-bearing unit is the mora. This means that accent can be associated with a short vowel (as in /háar/ ‘every’), or the first mora of a long vowel (as in /háar/ ‘take away!’), or the second mora of a long vowel (as in /haár/ ‘garland’). Palula pitch accent has one of the following phonetic manifestations: (i) high level (or falling) on a short vowel [ˀ], (ii) rising on a long vowel [ˀ], or (iii) falling on a long vowel [ˀ].

Even though some combinations of syllables and accents are more common than others, and there are restrictions on accent placement, the location of the accent within a given word is not entirely predictable. Therefore, accent in Palula must be defined lexically. In some cases, difference in accent placement is the only phonemic contrast between two lexical items:

séeti	‘thigh’	vs.	seetí	‘having looked after’
déedi	‘paternal grandmother’	vs.	deédi	‘burnt (F)’
háar	‘take away!’	vs.	haár	‘garland’

Although voiced aspiration (or breathy vowels, as described above) is often accompanied by an initial pitch-dip, the pitch accent and its further implications for morphophonology is in Palula clearly distinct from the secondary effect aspiration has on pitch. Aspiration may coincide with a rising accent as in /d<sup>h</sup>oót/ ‘yesterday’, as well as with a falling as in /d<sup>h</sup>óor/ ‘you may wash’. In the first word the rising pitch is phonetically reinforced by the aspiration, whereas in the second word an initial rising pitch is followed by a falling pitch about half-way through this long vowel, which produces a phonetic rising-falling contour.

### Transcription of recorded passage

#### Broad transcription

áak musaafár gárum cuk<sup>h</sup>aáw zaní pajlaá j<sup>h</sup>í de ta, cumaalí húucijee súuri šéetim ki, řanaám mazí k<sup>h</sup>ajáak zjaát taaqatwár t<sup>h</sup>aní. taním aní beetí z<sup>h</sup>ulí itifaáq t<sup>h</sup>íili ki, k<sup>h</sup>ajáak muřtú řařaawaá cuk<sup>h</sup>aáw gađí galajní kaamjaáb b<sup>h</sup>ílu, so dúja díi taaqatwár tasawúr b<sup>h</sup>í. t<sup>h</sup>eé ba cumaalí húuci bíiđi zjaát teéz b<sup>h</sup>e nik<sup>h</sup>éeti, mágam kanáa húuci zjaát b<sup>h</sup>í de, eendáa so musaafár cuk<sup>h</sup>aáw teenjii huzutí p<sup>h</sup>aré pajlúo de; aaxeér cumaalí húuci teenjii kooće uřigeéli. t<sup>h</sup>eé ba súuri teenjii taapjeelí sangí nik<sup>h</sup>éeti, atcaanák se musaafará teenjii cuk<sup>h</sup>aáw gađí geélu. t<sup>h</sup>eé cumaalí húuci qabúl t<sup>h</sup>íilu ki, súuri řanaám d<sup>h</sup>ujím mazí zjaát taaqatwár de.

**Narrow transcription**

â:k musa:fár gárum cuk<sup>h</sup>ã:ũ zeni pejlã: j<sup>h</sup>ĩ:ðe:ta | çuma:lí hũ:cĩe: sũ:ri şe:ĩim ki' | laṅã:m madzĩ  
 k<sup>h</sup>ajã:k zĩã: ʧa:qaṭβár ʧ<sup>h</sup>añĩ || ʧañĩm añĩ be:ĩĩ z<sup>h</sup>ulĩ ʧifã:x ʧ<sup>h</sup>ĩ:li ki' | k<sup>h</sup>ajã:k muştu ʧãsa:βã:  
 cuk<sup>h</sup>ã:ũ gaḍigalejñĩ: ʧa:mĩã: b<sup>h</sup>ĩlo | so dĩra dĩ: ʧa:qaṭβár ʧãsaβũr b<sup>h</sup>ĩ: || ʧ<sup>h</sup>ẽ:bã cuma:lí hũ:ci  
 bĩ:dĩ zĩã: ʧẽz b<sup>h</sup>enik<sup>h</sup>ẽ:ĩ | mágam kaṅã: hũ:ci zĩã:ʧ b<sup>h</sup>ĩ:de | e:mḍã: so musa:fár cuk<sup>h</sup>ã:ũ ʧe:ĩĩ  
 huḍzu:ĩ p<sup>h</sup>aré pejlõ:de | a:xẽr cuma:lí hũ:ci ʧe:ĩĩ ko:cĩc uṛigẽ:li || ʧ<sup>h</sup>ẽ:bã sũ:ri ʧe:ĩĩ ʧa:pĩe:lĩ  
 saṅgĩ ñik<sup>h</sup>ẽ:ĩ | a'ʧe:mãk se musa:fãrã ʧe:ĩĩ: cuk<sup>h</sup>ã:ũ gaḍigẽ:lo || ʧ<sup>h</sup>ẽ: cuma:lí hũ:ci xabũl ʧ<sup>h</sup>ĩ:lo  
 ki' | sũ:ri laṅã:m d<sup>h</sup>ũĩ' madzĩ zĩã: ʧa:qaṭβár de

**Orthographic version**

آک مُسافر گُرم شُکھاؤ جنی پُلا یہی دے تہ شمالی بُوشتے سُوری شیتیم کی ژنام مجی  
 کھیاک زیات طاقنور تھنی۔ تہم انی بیتی جُھلی إتفاق تھیلی کی کھیاک مُشتوڑس شاوا  
 شُکھاؤ گڈگلیتی کامیاب بھلو سو دُیہ دی طاقنور تصور بھی۔ تھے بہ شمالی بُوشتی بیڈی  
 زیات تیز بھے نکھیتی۔ مگم کنا بُوشتی زیات بھی دے ایندا سو مُسافر شُکھاؤ تیٹی بُجتی  
 پھرے پُلو دے۔ آخیر شمالی بُوشتی تیٹی کوشش اُڑگیلی۔ تھے بہ سُوری تیٹی تاپیلی  
 سنگی نکھیتی۔ اچانک سے مُسافرہ تیٹی شُکھاؤ گڈگیلو۔ تھے شمالی بُوشتی قُبل تھیلو  
 کی سُوری ژنام دُھیم مجی زیات طاقنور دے۔

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