

Pharyngealization and Related Phenomena

Eung-Do Cook
The University of Calgary

(1) Akan Vowels (Stewart 1967)

- (a) Advanced Tongue Root: i, e, ɜ, o, u
- (b) Retracted Tongue Root: ɪ, ɛ, a, ɔ, ʊ

(2) Rengao (Mon-Khmer) Vowels (Gregerson 1976)

- (a) [+ATR] (2nd register): i, e, ə, o, u
- (b) [-ATR] (1st register): ɛ̣i, ɛ, a, ɔ, ʊ̣

(3) Mon-Khmer Registers (Gregerson 1976)

1st 2nd Reg. (RTR)	Initial C (original) surds	Voice Quality clear tense	Vowel Quality open onglided	Pitch higher
1st 2nd (ATR)	sonants	breathy relaxed	close	lower

(4) Chilcotin Consonants (Cook 1983)

flat = pharyngealized

	1	2	3	4	5	6	7	8	9	10	11
plain	b	d	d̄	d̄̂	dz	dž	g	g ^w	G	G ^w	
aspirated	p	t	t̄	t̄̂	ts	tš	k	k ^w	q	q ^w	
glottalized		t'	t̄'	t̄̂'	ts'	tš'	k'	k ^{w'}	q'	q ^{w'}	?(?w)
voiceless	ɸ	(n̄)	ɸ̄	ɸ̂	s	š	-	x ^w	x̄	x̄ ^w	h
voiced	m	n	l	ɸ̂	z	y	-	w	ɣ̄	ɣ̄ ^w	
	N			Ŝ	S	N	K	K	Q	Q	N

(5) Chilcotin Vowels (Cook 1983)

(a) Underlying (Sharp): i, ɪ, æ, ε, u, ʊ

(b) Pharyngealized (Flat): ɛ̠i, ɛ̠ɪ, a, ə, o, ɔ̠

(6) Thompson Consonants (Thompson and Thompson in press)

		1	2	3	4	5	6	7	8	9	10
Obstruents	Stops, glottalized	p̚	(t̚)	ɬ	ʈ		k̚	k̚ʷ	q̚	q̚ʷ	?
	Stops, plain	p	t		ç	c	k	kʷ	q	qʷ	
	Spirants			ɬ̥	ç̥	s	x	xʷ	x̥	x̥ʷ	h
Resonants	Plain	m	n	l	z	y	ɣ	w	ʕ	ʕʷ	
	Glottalized	m̚	n̚	l̚	z̚	y̚	ɣ̚	w̚	ʕ̚	ʕ̚ʷ	

COLUMN KEY: 1 bilabials 6 simple prevelars
 2 dentals 7 rounded prevelars
 3 laterals 8 simple postvelars
 4 postdentals 9 rounded postvelars
 5 palatals 10 laryngeals

(7) Thompson Vowels:

(a) [+ATR]: i, e, ə, u

(b) [-ATR]: ɪ, a, ə̠, o

(8) Babine Vowels (Story in press)

(a) Lenis Class Syllable: i, e, æ, o, u, ə

(b) Fortis Class Syllable: ɛ̠, ε, a, ɔ, ɔ̠, ʌ

(9) Babine Consonants (Story in press)

Lenis	b	d	dɫ	dz	g/dʒ	G	Gʷ	ʔ		[-voice, -asp, -glot]
Fortis		t	tɬ	ts	k/tʃ	q	qʷ			[-voice, -glot, +asp]
		t'	tɬ'	ts'	k'/tʃ'	q'	q'ʷ			[-voice, -asp, +glot]
Lenis	m	n	ɫ	z	y		w			[+voice]
Fortis			ɬ	s	x	x̥	x̥ʷ	h		[-voice]