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Original Source: Tables taken from Krauss (2005)

Created: June 2011

Goal: recreate the tables from Krauss (2005) using IPA

Comments: The forms in red contain symbols we are uncertain about transcribing.

Group 1 = L-tone marked, Group 2 = H-tone marked, Group 3 = toneless

Reference: O'Loughlin, Jared and Joyce McDonough. 2011. "Krauss Tonogenesis Tables: IPA transcription." Department of Linguistics, University of Rochester.

<http://www.ling.rochester.edu/research/labs/phonetics.html>, downloaded <date>

Referenced in: McDonough, Joyce. 2019. Krauss (2005) Tonogenesis Tables: IPA transcription. in Guekguezian, P & McDonough, J. (eds), *University of Rochester Working Papers in the Language Sciences (URWPLS)*, vol. 7, 1-8. Cambridge, MA: MIT Working Papers in Linguistics.

Table 1 Non-Constricted full-vowel stems open or closed with plain sonorant

Group	Proto-Athabaskan	sky	water	stone
		*ja	*tu	*tse
Group 1	Kutchin	žé	t u -t u' -t u'	kí
	Han	dz	t ú -t ù' -t ù'	t é -t è'
	Dogrib	já-	tí -ti	kwe -kwè
	Southern Tutchone	já-	t	

Table 1 Non-Constricted full-vowel stems open or closed with plain sonorant

Group	Proto-Athabaskan	sun * w _a	grease * x _e * e'	day * d we n()
Group 1	Kutchin	s'é	xwáj - wáj' - wáj'	d'ín
	Han	s'	xé - è'	drín
	Dogrib	sá	d	e
	Southern Tutchone	sá	xé -jè'	zén-
	Tagish	sâ	xe -jè'	én
	Tahltan	sâ		én-
	Sekani	sa		én-
	Sarcee		x - h	ín-
	Navajo	á		d J
Group 2	Northern Tutchone	sè	xì	jà

Table 1 Non-Constricted full-vowel stems open or closed with plain sonorant

Group	Proto-Athabaskan	rain *ka n *ca:n	mother *-(h)a n	mosquito *tsu j() *tsi j()
Group 1	Kutchin	tsín	-hán	k'íh
	Han	tsæh	-n	t 'aj
	Dogrib	t o	-mo	kw'í
	Southern Tutchone	a	-má	
	Tagish	t a	-má	ts'ih
	Tahltan	t â	-mâ	tsi
	Sekani	t o		
	Sarcee	t á	-á	tsí
	Navajo	t a	-má	
Group 2				

Table 1 Non-Constricted full-vowel stems open or closed with plain sonorant

Group	Proto-Athabaskan	man's grandchild *-tsu j	heart *-d wej '
Group 1	Kutchin	-kió j	-drì '
	Han	-t ú	-drè '
	Dogrib	-kwí	- é
	Southern Tutchone	- úá	-zé'
	Tagish		- èè'
	Tahltan		- é
	Sekani		- í je
	Sarcee	-súwá	- a -
	Navajo	-tsóí	-d éí -d éí -d é
Group 2	Northern Tutchone	-t ùà	- í
	Kaska	-t ù	- é - è
	Hare	-fi	- íe
	Mountain		
	Bearlake		- èé
	Slavey		- èé
	Beaver		- é
	Dëne Su		

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Table 3 Non-constricted full-vowel stems closed with glottalized obstruent

		(crusty) snow	scum, algae, moss	scab	diaper moss, cradle
Group	Proto-Athabaskan	*t i t	*d a t	* u t	*t s a t
Group 1	Kutchin	tsí	d íd	íd -líd	k il

Table 3 Non-constricted full-vowel stems closed with glottalized obstruent

Group	Proto-Athabaskan	spit * ^w e q	nostril * ⁻ⁿⁱ k	fish * u q * u q e
Group 1	Kutchin	s'íg	-nd íg	úg
	Han	s'é(w) -z'èw		ú -lù
	Dogrib	sé		úé í
	Southern Tutchone	-dzé		ú
	Tagish		-níge	úge
	Tahltan			úe
	Sekani			úwè -lùwè
	Sarcee	z j -z k		uk
	Navajo	é -dzé	-ní	ó -ló
Group 2	Northern Tutchone	-zjà g		jòg
	Kaska	-dzeg		ùg
	Hare	sèh -zégé		lùgè -lùgé
	Mountain			ùè
	Bearlake	-zé		ùè
	Slavey	-zéh -zèé	-nì e	ùè -lùé
	Beaver			úge -lùgé
	Dëne Su ine	sè -zè é	-nìjè	ùwè
	Chilcotin	-zì	-nì	ùj
Tanacross	sè g -sé g	-ndì g	ù g	
Group 3	Hupa	^x e q - ^x e q e		o q -lo q e
	Mattole	^t i x		o k e
	Galice	- ^s e k e		o k e
	Ahtna	sè		uq e
	Tanaina	aq -dzaq a		

Table 3 Non-constricted full-vowel stems closed with glottalized obstruent

Group	Proto-	guts	ribs	navel
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Table 4 Non-constricted reduced-vowel stems closed with plain sonorant or obstruent

		ice	bone	stick, base
Group	Proto-Athabaskan	*t n	*ts n	*k n
Group 1	Kutchin	tán	t án -	

Table 4 Non-constricted reduced-vowel stems closed with plain sonorant or obstruent

Group	Proto-Athabaskan	lake *w n(q)	trail *t f	cloud *q s
Group 1	Kutchin	ván -vàn	táf -táj	k óh
	Han	m n	táf()	k óh
	Dogrib		-to	k ó
	Southern Tutchone	m n	t n -t n	k úg
	Tagish	m n	t ne	k ^w s
	Tahltan	m n -m nè	t ne	k ós
	Sekani	-m n *		

Table 4 Non-constricted reduced-vowel stems closed with plain sonorant or obstruent

Group	Proto-Athabaskan	neck *-q s	smoke * d	dry wood *t w dzw
Group 1	Kutchin	-k óh	ád -làd	tʰá -tʰà
	Han	-k óh	d -lö	tʰ d -tʰö
	Dogrib	-k ó	ó	tsó
	Southern Tutchone	-k ú		s r -s r
	Tagish	k ^w s	d	ts ts
	Tahltan	-k òs	d	ts -ts è
	Sekani	-k w s	d -l de	c z
	Sarcee	-k os	d i -t id	
	Navajo	-k òs	ìd -lìd	-t idz -t ì
Group 2	Northern Tutchone	-k ò		tsò
	Kaska	-k s		ts s -ts z
	Hare	-k òh	lèh -léré	sèh
	Mountain		èh -lère	
	Bearlake	-k òh	èh -lère	tsèh -tsèle
	SlaveyE			

Table 4 Non-constricted reduced-vowel stems closed with plain sonorant or obstruent

		ear	anus	fingernail
Group	Proto-Athabaskan	*-d	*	

Table 5(a) Constricted full-vowel stems open

Group	Proto-Athabaskan	father	head	foot	beaver
		*-ta	*-tsi	*-qe	*t a
Group 1	Kutchin	-ti	-ki	-kwaj	t è
	Han	t æ	-t i	-kè	tsæ
	Dogrib	-tà	-kwi	ké(-) -kè	tsà
	Southern Tutchone				

Table 5(a) Constricted full-vowel stems open

Group	Proto-Athabaskan	louse	arrow	man's daughter
		*ja	*q a	*-tse
Group 1	Kutchin	dzi	kì -kì	-kì (?)
	Han	dzæ	k æ -kæ	-t è
	Dogrib	dzà	k J	
	Southern Tutchone	jà -jà	k à	- íá
	Tagish	dzà	k a -k àe	-tsí è
	Tahltan	jà -jà e		
	Sekani	jà -jà	k â -k à	
	Sarcee	jà -jà		
	Navajo	jà -jà -jà	k	

Table 5(b) Constricted full-vowel stems sonorant -closed

Group	Proto-Athabaskan	leaf *-ta n()	roe *qu n	excrement *t ^w a n
Group 1	Kutchin	-tàn	-kio	tʃ -tʃin
	Han	-t n	ko -ko	tʃæ -tʃæn
	Dogrib	-to	-kʃ	ts so
	Southern Tutchone	-ta	kju	sa
	Tagish	-táne	kùn -kúnè	ts -ts ne'
	Tahltan	-táne		
	Sekani	-to		
	Sarcee		kú -kún	tsà -tsàn '
	Navajo	-t		

Table 6 Constricted full-vowel stems closed with plain obstruent

Group	Proto-Athabaskan	flour	mat	mouth	younger sister
		* e d	*te	*-za d	*-de d ()
Group 1	Kutchin	ùh -lu	t i àh		-d ù
	Han	èw -lèw	t èw -t èw	-ðæd	-d èw
	Dogrib	è	t è	-wà	-d è
	Southern Tutchone	r	t l	-ðàd	-d ùá
	Tagish	è -lé e	t è -télé	-zàde	

Table 8 Constricted reduced-vowel stems closed with glottalized sonorant or obstruent

		star	husband	handle, bow
Group	Proto-Athabaskan	*ts w *s w	*-q j	*-t j
Group 1	Kutchin	sa	-kaj	-taj

Table 8 Constricted reduced-vowel stems closed with glottalized sonorant or obstruent

Group	Proto-Athabaskan	belly *-w t	liver *-z t	cane *t ts
Group 1	Kutchin	-vād	-ōād	tòh -tò
	Han	-bād	-ō d	t d -tō
	Dogrib	-mò()	-wò()	tè
	Southern Tutchone	-mb d	-ō d	t
	Tagish	-mb d	-z d	-t e
	Tahltan	-b d	-z d	
	Sekani	-b d		
	Sarcee	-mì	-zì	tìs -tìs
	Navajo	-bìd	-zìd	
Group 2	Northern Tutchone	-mbád	-ōád	tó
	Kaska	-b d	-z d	t s
	Hare	-bé	-wé	té -téwé
	Mountain			
	Bearlake	-bé	-wé	t

Table 8 Constricted reduced-vowel stems closed with glottalized sonorant or obstruent

Group	Proto-Athabaskan	land	mitts
		*j n *j n	*g t ^w *g d ^w
Group 1	Kutchin		d úr ír - ír
	Han	nán -nàn	lád í
	Dogrib	ndè ndé -nè -né	
	Southern Tutchone		
	Tagish		
	Tahltan		
	Sekani		
	Sarcee		ìs
	Navajo	nì -nì	-d ì
Group 2	Northern Tutchone		
	Kaska	-nJ	
	Hare	ne -néné	làd ì
	Mountain		
	Bearlake	ne -néné	
	Slavey	ndéh -ndéé	
	Beaver		
	Dëne Su ine	n n nJ -n né	-d s(é)
	Chilcotin	n n	
Tanacross			
Group 3	Hupa	nin -ni ne	
	Mattole		
	Galice	-na nde	
	Ahtna	nen -nene	gets
	Tanaina	n n -n na	-g t
	Upper Kuskokwim		-d tʰ
	Eyak	h	

Alternations

Krauss	IPA	Notes
y	j	
v	V	