Phonology of East Caucasian languages

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last version of the presentation is available here: tinyurl.com/y2foeogg



Outline of the talk

Introduction

Data

Methods

About phonology of East Caucasian languages

- phonology
 - [Kibrik and Kodzasov 1990]
 - The indigenous languages of the Caucasus: [Job and Smeets 1994],
 [Smeets 1994]
 - Yaziki mira: [Alekseev et al. 2001] and predecessor projects
 - [Grawunder 2017]
 - The Oxford Handbook of Languages of the Caucasus: [Beguš 2021], [Boris 2021a], [Boris 2021b]
 - The Mouton Handbook of Languages of the Caucasus
 - and phonological part in more general descriptions of East Caucasian languages
- historical-comparative phonetics
 - S. M. Gasanova, G. Kh. Ibragimov, P. T. Magomedova, U. A. Meylanova,
 B. B. Talibov, S. M. Khaydakov, A. E. Alekseev, Ju. D. Desheriev, B. K.
 Gigineishvili, D. S. Imnaishvili, J. Nichols, S. L. Nikolayev, S. A.
 Starostin, A. S. Kasyan, N. A. Ardoteli, O. A. Mudrak

Outline of the talk

Introduction

Data

Methods

Languages

- Nakh
 - Chechen
 - Ingush
 - Tsova-Tush (Bats, Batsbi)
- Tsezic (Didoic)
 - Tsez
 - Hinuq
 - Bezhta
 - Hunzib
 - Khwarshi-Inkhoqwari

- Avar–Andic
 - Avar
 - Andi
 - Botlikh
 - Godoberi
 - Chamalal
 - Tindi
 - Bagvalal
 - Akhvakh
- Dargwa
- Lak

- Lezgic
 - Archi
 - Tabasaran
 - Aghul
 - Lezgian
 - Udi
 - Budukh
 - Kryz
 - Rutul
 - Tsakhur
- Khinalug

Languages not present in [Kibrik and Kodzasov 1990]

- Nakh
 - Chechen
 - Ingush
 - Tsova-Tush (Bats, Batsbi)
- Tsezic (Didoic)
 - Tsez
 - Hinuq
 - Bezhta
 - Hunzib
 - Khwarshi-Inkhoqwari

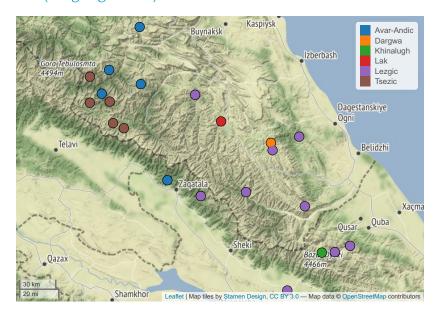
- Avar–Andic
 - Avar
 - Andi
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- Lezgic
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 - Lezgian
 - Udi
 - Budukh
 - Kryz
 - Rutul
 - Tsakhur
- Khinalug

Languages not present in [Kibrik and Kodzasov 1990]

- Nakh, Chechen
- Nakh, Ingush
- Nakh, Tsova-Tush [Holisky and Gagua 1994]
- Dargwa, Mehweb [Moroz 2019]
- Andic, Botlikh
- Andic, Godoberi
- Andic, Bagvalal

Data (language view)





Outline of the talk

Introduction

Data

Methods



	Stops				Fricative	es		Affricate	Son.			
	Voiced	Voicel	less		Voiced	Voice	eless	Voiced	Voiceless			
			Gem.	Ej.			Gem.			Gem.	Ej.	
Lab.	Ьб	рп										wв mм
Den.	dд	tт	t: тт	t' тI	Z 3	s c	s: cc		сц	с: цц	с' цІ	пн
Alv.					žж	šш	š: щ	ў дж	čч	č: чч	č' чІ	r p
Lat.						1 лъ	ł: лълъ			λлΙ	λ' кь	1л
Pal.												јй
Vel.	gг	kк	k: кк	k' кI			х хь					
Uv.		q хъ		q' къ	к п.Р	χх	χ: xx					
Ph.					ГгГ	ħ xI						



	Stops			Frica	atives		Affr	Affricates				
			plosiv	es		fricativ	/es	affricates	sonorant			
			asp ej		vcd	asp	ved	asp			ej vcd	
Lab.	labial		p		b						w, m	
		-gem	t	t'	d	s	z	c	c'		n	
Den.	dental	+gem				s:		c:	c':			
Alv.		-gem				š	ž	č	č'	ž	r	
	alveolar	+gem				š:		č:	č':			
Lat.	lateral					ł (ł:)		λ	λ,		1	
Pal.	palatal					ç, ç ^w					j	
Vel.	velar	-gem	k, kw	k', k'w	g, g ^w							
		+gem	k:, k:w	k':, k'w:								
Uv.		-gem		q', q'w		χ, χ	R' R _m	qχ, qχ ^w				
Ph.		+gem				χ:						
						t	1_		+			



	Stop	os			Fricatives						Affr	Affricates					Son.	
					plosiv	es			fricatives			affricates						
					asp	ej		vcd	asp vcd		vcd	asp		ej			sonorant	
Lab.	labi	i			aljal	. ,	zal stat	32t . 3	(a)	velar		uvular -lab +lab		pharyng		ngea	geal epig	
Den.	den				/abr	ses	32	ec Saje	-la	b ·	+lab	-lab	+lab	-l	ab	+lab	-lab	
JCII.				+v	b	d			g		g ^w							
Alv.		plosiv	ve	-v ej	p p'	t t'			k k'		k ^w k' ^w	q q'	q ^w q' ^w				(7)	
			irro	+v		Z	ž		(γ)		R	$R_{\rm m}$					
at.	late	fricative		-v		S	š		х		xw	χ	χ^{w}	j	ħ	ħw	(н)	
al.	pala	affricat		+v		(3)	(ǯ) č											
/el.			ale	-v ej		c c'	č'											
	vela	sono	rant		m, w	n,	l, r	j										
Jv.										Ī					П			
		,	-ge	m		q',	q'w		χ, χ ^w		R, R _m	qχ, α	lχw					
Ph.	uvu	ıar	+ge	m					χ:									
									١.	\top	_							



This way is...

• boring,



This way is...

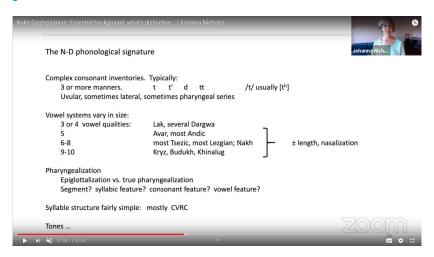
- boring,
- mechanical,



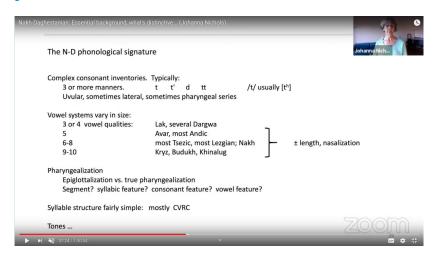
This way is...

- boring,
- mechanical,
- it is hard to make generalisations (at least, on the fly)









(If you have not seen it, go and wath our previous lecture!)



Those ways are...

- To list all inventories
 - boring,
 - mechanical,
 - hard to make generalisations (at least, on the fly)
- To present generalisations
 - restricted to peculiarities,



Those ways are...

- To list all inventories
 - boring,
 - mechanical,
 - hard to make generalisations (at least, on the fly)
- To present generalisations
 - restricted to peculiarities,
 - you need to be a specialist



Thanks

- reasercher teams that collected all data
- if you like presented maps, see <code>lingtypology</code>



Thanks

- reasercher teams that collected all data
- if you like presented maps, see lingtypology
- source code and data for this presentation are available online: https://tinyurl.com/y2oh9sg8
- and YOU for your attention



References

- Alekseev, M. E., Starostin, S. A., Klimov, G. A., and Testelets, Y. G. (2001). *Yazyki mira. Kavkazskiye yaziki*. Academia.
- Beguš, G. (2021). Segmental phonetics and phonology. In Polinsky, M., editor, *The Oxford Handbook of Languages of the Caucasus*, pages 1–40. Language Science Press.
- Boris, L. (2021a). Tone and intonation in languages of the caucasus. In Polinsky, M., editor, *The Oxford Handbook of Languages of the Caucasus*, pages 1–30. Oxford University Press.
- Boris, L. (2021b). Word stress in the languages of the caucasus. In Polinsky, M., editor, *The Oxford Handbook of Languages of the Caucasus*, pages 1–30. Language Science Press.

References

- Grawunder, S. (2017). The caucasus. In Hickey, R., editor, *The Oxford Handbook of Languages of the Caucasus*, pages 356–395. Cambridge University Press.
- Holisky, D. A. and Gagua, R. (1994). Tsova-Tush (Batsbi). *The indigenous languages of the Caucasus*, 4(part 2):147–212.
- Job, D. M. and Smeets, R. (1994). *The indigenous languages of the Caucasus, Vol. 3*, volume 3. Caravan Books.
- Kibrik, A. E. and Kodzasov, S. V. (1990). *Sopostavitelnoye izucheniye dagestanskix yazykov: Imya. Fonetika*, volume 2. Moskovskij Gosudarstvennyj Universitet.
- Moroz, G. (2019). Phonology of mehweb. In Daniel, M., Dobrushina, N., and Ganenkov, D., editors, *The Mehweb language: Essays on phonology, morphology and syntax*, pages 17–39. Language Science Press.



References

Smeets, R. (1994). *The indigenous languages of the Caucasus, Vol. 4*, volume 4. Caravan Books.