

A corpus of Andi field recordings

Aigul Zakirova¹

George Moroz¹

Elena Sokur¹

Samira Verhees²

Neige Rochant³

¹HSE University, Russia; ²Independent researcher, the Netherlands;

³Sorbonne Nouvelle University / CNRS

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Outline of the talk

- Corpora of Linguistic Convergence Laboratory
- An example of Meadow Mari corpus
- Andi language and its data
- Our path towards the corpus

Corpora of Linguistic Convergence Laboratory

Corpora of Linguistic Convergence Laboratory:

<http://lingconlab.ru/>

- Russian Dialect corpora (14)
- Corpora of Bilingual Russian (7)
- Corpora of minority languages of Russia (6)

Corpora of Linguistic Convergence Laboratory: <http://lingconlab.ru/>

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[Corpora ▾](#)

[Dictionaries ▾](#)

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Khislavichi
dialect

Tokens: 260 793

[View](#)

Keba dialect

Tokens: 54 535

[View](#)

Luzhnikovo
dialect

Tokens: 68 666

[View](#)

Lukh and Teza
river basins
dialects

Tokens: 146 350

[View](#)

Malinino
dialect

Tokens: 138 943

[View](#)

Nekhochi
dialect

Tokens: 88 965

[View](#)

OPOCHETSKY
dialects

Tokens: 68 741

[View](#)

Rogovatka
dialect

Tokens: 100 047

[View](#)

Spiridonova
Buda dialect

Tokens: 70 565

[View](#)

Shetnevo and
Makeevo
dialect

Tokens: 58 003

[View](#)

Tserkovnoe
dialect

Tokens: 19 960

[View](#)

Upper Pinega
and Vyga river
basins dialect

Tokens: 70 803

[View](#)

Ustja River
Basin dialects

Tokens: 959 782

[View](#)

Zvenigorod
dialect

Tokens: 68 324

[View](#)

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Dialect corpora

Corpora of bilingual Russian

Corpora of minority languages of Russia

Bashkortostan
Russian

Tokens: ND

View

Beserman
Russian

Tokens: 97 216

View

Chuvash
Russian

Tokens: 46 307

View

Daghestanian
Russian

Tokens: 227 885

View

Karelian
Russian

Tokens: 74 014

View

Romani
Russian

Tokens: 41 767

View

Yakut Russian

Tokens: 15 139

View

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Resources

Dialect corpora	Corpora of bilingual Russian	Corpora of minority languages of Russia	
<div>Abaza</div> <div>Tokens: 3 636</div> <div>View</div>	<div>Adyghe</div> <div>Tokens: ND</div> <div>View</div>	<div>Bashkir</div> <div>Tokens: ~25 000</div> <div>View</div>	<div>Kabardian</div> <div>Tokens: ND</div> <div>View</div>
<div>Khakas</div> <div>Tokens: ~58 000</div> <div>View</div>	<div>Meadow Mari</div> <div>Tokens: ND</div> <div>View</div>		

Example of Meadow Mari corpus

[Meadow Mari Spoken Corpus](#)

EN | RU | ?



● Word #1

Word:

Lemma:

Grammar:

Gloss:

Language/tier: Meadow Mari



speaker: anf
speaker_name: Фёдорова Анна
Николаевна
dialect: моркинско-сернурский
gender: f
place of birth:
year of birth: 1930
education:
year: 2018

Full-text search:

☒ Precise match

Search sentences

Search words / lemmata



Select subcorpus



Search result: 98 occurrences, 94 sentences found in approximately 10 documents.

Биография А. Н. Ф. (часть 2) 2018

а мый кум кече веле **коштына** ыле Реру-Ушчыл...

а мы за три дня доезжали

Биография З. И. Е. (часть 2)

<нрзб> **коштыт**...

Очень много ходило...

Биография З. И. Е. (часть 2) 2018

Эмланже гын пеш **коштына** ыле,

коштына
кошташ V
кошт-ына
STEM-NPST.1PL
gr: npst, 1, pl
trans_ru: ходить



1

2

3

4

... 10

Example of Meadow Mari corpus

- translation
- glosses
- audio/video
- export to `.xlsx`
- sociolinguistic information

Example of required ELAN .eaf file

XXX19Yyf_Transcription-txt-mhr [34]	00:00:00.000	00:00:01.172	00:00:01.370	00:00:01.491	00:00:01.190	00:00:01.490	00:00:01.802	00:00:01.908	00:00:02.014	00:00:02.124	00:00:02.204	00:00:02.310	00:00:02.108	00:00:02.845
	Адак йомак простынь денак.													
Words@SPEAKER [243]	Адак		йомак		простынь				денак					
Lemma@SPEAKER [237]	Адо		ад		адак		йомак		йомаш		простынь		ден	
Gramm@SPEAKER [304]	N, PN, persn, e		N, rus, emph, s		ADV		N, sg, nom, nonposs		V, emph, i V, emph, n		N, rus, sg, nom, nonposs		CONJ, emph	
lex2@SPEAKER [10]	Адо		ад		опять		сказка		пропасть, пропасть,		простыня		и	
trans_ru@SPEAKER [304]	ад-ак		ад-ак		адак		йомак		йом-ак йом-ак		простынь		ден-ак	
trans_ru2@SPEAKER [10]	STEM-EMPH		STEM-EMPH		STEM		STEM		STEM-EMPH STEM-EMPH		STEM		STEM-EMPH	
Morph@SPEAKER [304]														
Gloss@SPEAKER [304]														
XXX19Yyf_cs-txt-mhr [1]	Снова история с простыней.													
XXX19Yyf_Translation-gls-mhr [34]														

- hierarchy of tiers
- time alignment
- stem forms

Developing the corpus of Andi

The Andi Language: a sociolinguistic background

- Andic < Avar-Andic < East Caucasian, glottocode [andi1255]
- spoken in several villages of the Botlikh district of Dagestan.
- more than 20,000 speakers of Andi [Aglarov (2002); All-Russian National Census 2010]
- Andi speakers are trilingual in Andi, Avar and Russian
- Avar serves as a lingua franca and is taught in school (Dobrushina et al. 2017)



	Andi	Rikvani	Gagatli	Zilo
sources	(Kibrik and Kodzasov 1988; Alekseev 1999; Dirr 1906; Tsertsvadze 1965);	(Sulejmanov 1957)	(Salimov 2010)	(Kaye et al. rthc)
grammar sketch	+	+	+	+
dictionary	+	-	±	±
morphological parser	± ¹	-	-	-

¹A pilot version of a morphological parser of Andi is presented in (Buntyakova 2022).

- Written texts from grammar sketches, some with translation
- Field recordings from 1 trip to Rikvani, a few trips to Muni and Kwankhidatli, and several trips to Zilo
- Especially the Kwankhidatli dialect is endangered; only known record is a few short texts in (Tsertsvadze 1965)

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- Especially the Kwankhidatli dialect is endangered; only known record is a few short texts in (Tsertsvadze 1965)
- Recordings were made by different researchers, with different approaches to recording and processing
- We have approximately 8.27 hours of recordings
 - 7.77 hours is transcribed
 - 3 hours are aligned with sound
 - 17.35 minutes are fully glossed

- Andi has several dialects and no cross-dialectal standard;
 - no full-fledged dictionary
 - no full-fledged grammatical parser (though see a first attempt in (Buntyakova 2022))
- Our recorded data are heterogeneous
 - different dialects
 - different conventions
 - different file formats
- Due to our limited knowledge of the Andi dialects, sometimes we do not know what the correct analysis of a given word form is.

The material has to be converted to a singular format using `phonfieldwork` (Moroz 2020). For the Andi dialectal corpus the pipeline is as follows:

- we preprocess the annotation files, converting them to ELAN `.eaf` format (Wittenburg et al. 2006),
- align them with the sound
- gloss them manually or correct mistakes and ambiguities left by morphological parser
- publish online using the Tsakorpus platform (Arkhangelskiy 2019)
- repeat all previous steps

Conclusions

Conclusions:

Thank you for your attention!

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