"Upwards towards the forest and away from the riverbank" The Upper Negidal orientation system and the role of rivers in the expression of direction

Laurène Barbier

Laboratoire Dynamique Du Language, CNRS UMR 5596, Université Lumière Lyon 2

58th Annual Meeting of the Societas Linguistica Europaea, 26–29 August 2025, Université Bordeaux Montaigne

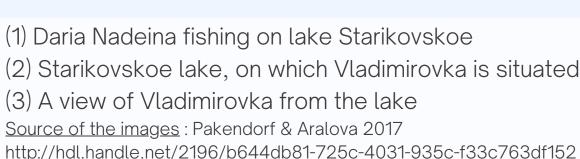
1 Introduction

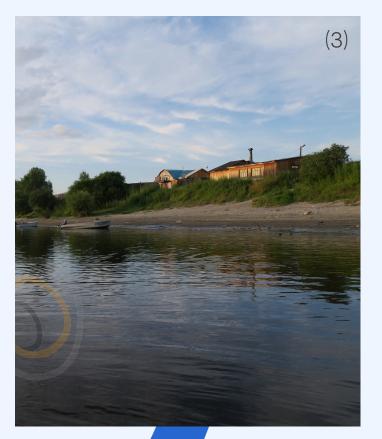
- Orientation systems have been studied in many languages: Austronesian (Blust 2013, Nagaya 2020), Sino-Tibetan (Post 2019, Shirai 2020, Honkasalo 2019), Mesoamerican (O'Meara & Pérez Pérez Báez 2011), languages of the North Pacific Rim (Fortescue 2011)
- Spatial Frames of Reference (FoR) (Levinson 1996, 2003)
 - Relative relative to the observer
 - Intrinsic inherent characteristics of an object
 - Absolute abstract fixed bearings (ex. cardinal points)
- Redefinition of the absolute FoR (Palmer 2015) to better account for the diversity of systems beyond cardinality: landmarks, path of the sun, prevailing winds, rivers and sea (Brown 1987)
- Additions to the typology of spatial FoRs:
 - Geocentric subtype (François 2015)
 - Geocentric macrotype (Hoffman, Palmer & Gaby 2022)
- Development of studies on orientation taking into account salient topographical-features (Palmer 2007, Palmer 2015, Palmer et al. 2017)

2 Upper Negidal

- Established along the the Amgun River (Russian Far East), semi-sedentary, fishing and hunting (Zgusta 2015: 186-187)
- A region of interconnected lakes and rivers surrounded by Taiga Forest uphill from the riverbeds
- North-Tungusic language (Whaley & Oskolskaya 2020: 91)
- Upper Negidal & Lower Negidal (†) (Pakendorf & Aralova 2018)
- 4 speakers in two villages (Vladimirovka & Polina Osipenko)
- mainly head-final, SOV, agglutinative type
- The spatial grammar of Upper Negidal is underdescribed







Q Research Questions

- what extent does riverine vocabulary play a particular role in the spatial grammar of Upper Negidal?
- 2. How is it embedded in the orientation system?
- 3. What are the spatial Frames of Reference of Upper Negidal?

Hypothesis: geocentric orientation system

- & Prokopieva 2016), **Evenki** (Lavrillier & Gabyshev 2017, Mamontova & Thornton 2022) and Nivkh (Fortescue 2011: 88-92): hydrographic networks, prevailing winds, path of the sun

Results

Salience of rivers in the Upper Negidal linguistic practices

- Designation 'Negidal' nex- 'bottom of the riverbank' + deriv. -gidax- 'side' + plural -l (used by the Evenki); self-designation amnun bajanin (lit. 'people of the Amgun')
- Content of the narratives frequent references to rivers and lakes as key elements of the narration (landmarks, goals of motion, travel routes)
- Types of Grounds riverine-related topographical features represent 16% of all overtly expressed Grounds in the working corpus

Riverine verbs and riverine adverbs in translational spontaneous motion events

Category	Lexeme	Translation	Nb. occ.	Definition (Cincius 1982)	FoR
Verb	solo-	move upriver	14	to go or sail upriver against the current	Geo
	oja:n-	move downriver	20	to go down the river with the current	Geo
	tesa-	move away from riverbank	1	to swim away from the shore	Geo
Adverb	solaːki	upriver	9	up the river against the current	Geo
	ojaːki	downriver	7	down the river with the current	Geo
	ŋeː-ski	towards the bottom of the riverbank, downwards	10	down the hill or the mountain to the riverbank	Geo
	diː-ski	towards the top of the riverbank (lit. forest), upwards	9	up the hill from the riverbank to the taiga	Geo
	bad-gi-ski	towards the opposite side of the riverbank	9	to the opposite side of the river or the road, across the river	Int

Path of the sun instead of abstract terms of cardinality (12 utterances from the archive)

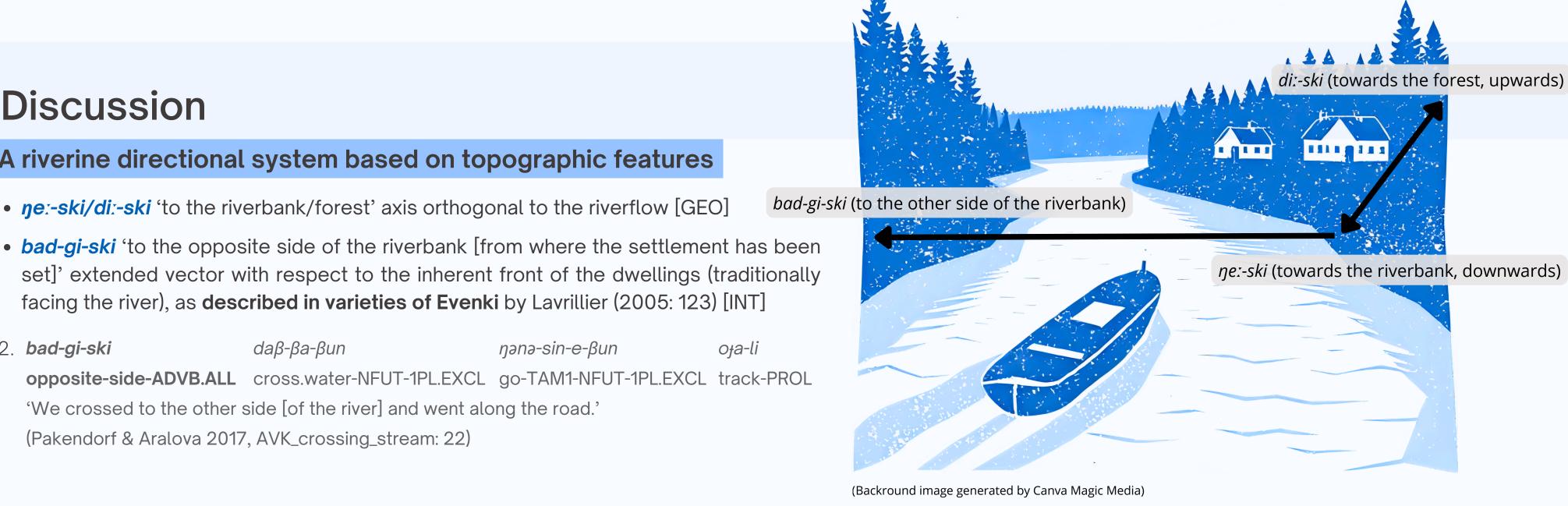
1. ŋənə-kəl siβun juː-ji-tki-n go-IMP.SG exit-PRS.PTCP-ALL-3SG sun 'Go towards the sunrise.'

(Pakendorf & Aralova 2017, DIN_berloga_medvedja_cincius: 30)

Discussion

A riverine directional system based on topographic features

- neː-ski/diː-ski 'to the riverbank/forest' axis orthogonal to the riverflow [GEO]
- set]' extended vector with respect to the inherent front of the dwellings (traditionally facing the river), as described in varieties of Evenki by Lavrillier (2005: 123) [INT] 2. bad-gi-ski daβ-βa-βun ηənə-sin-e-βun
- opposite-side-ADVB.ALL cross.water-NFUT-1PL.EXCL go-TAM1-NFUT-1PL.EXCL track-PROL 'We crossed to the other side [of the river] and went along the road.' (Pakendorf & Aralova 2017, AVK_crossing_stream: 22)



External uses of the riverine directional system inside houses

- 58 additional occurrences of the riverine directionals: non-translational (N=49) (static location including posture) (ex.3) or caused-motion contexts (N=9) (ex.4)
- They occur as adverbs (often adverbial allative marker -ski or case markers) or relational nouns (dative, locative, allative case marker)
- 3. **di-gida-tki-n** aː-sin-laː-ja-n top.of.riverbank-side-ALL-3SG sleep-TAM1-VR.AM-NFUT-3SG 'He lies down behind her.'
 - (Pakendorf & Aralova 2017, APN_gaki: 13)

6 Summary

South

toː-du-βai bad-gida-du-βaj οjοβ-βα DIST-DAT.ESS house-DAT.ESS-PRFL.PL full meat-ACC opposite-side-DAT.ESS-PRFL.PL stack-NFUT 'There they fill their house, stack the meat at the wall opposite the door.'

(Pakendorf & Aralova 2017, APK_frog_tale: 105)

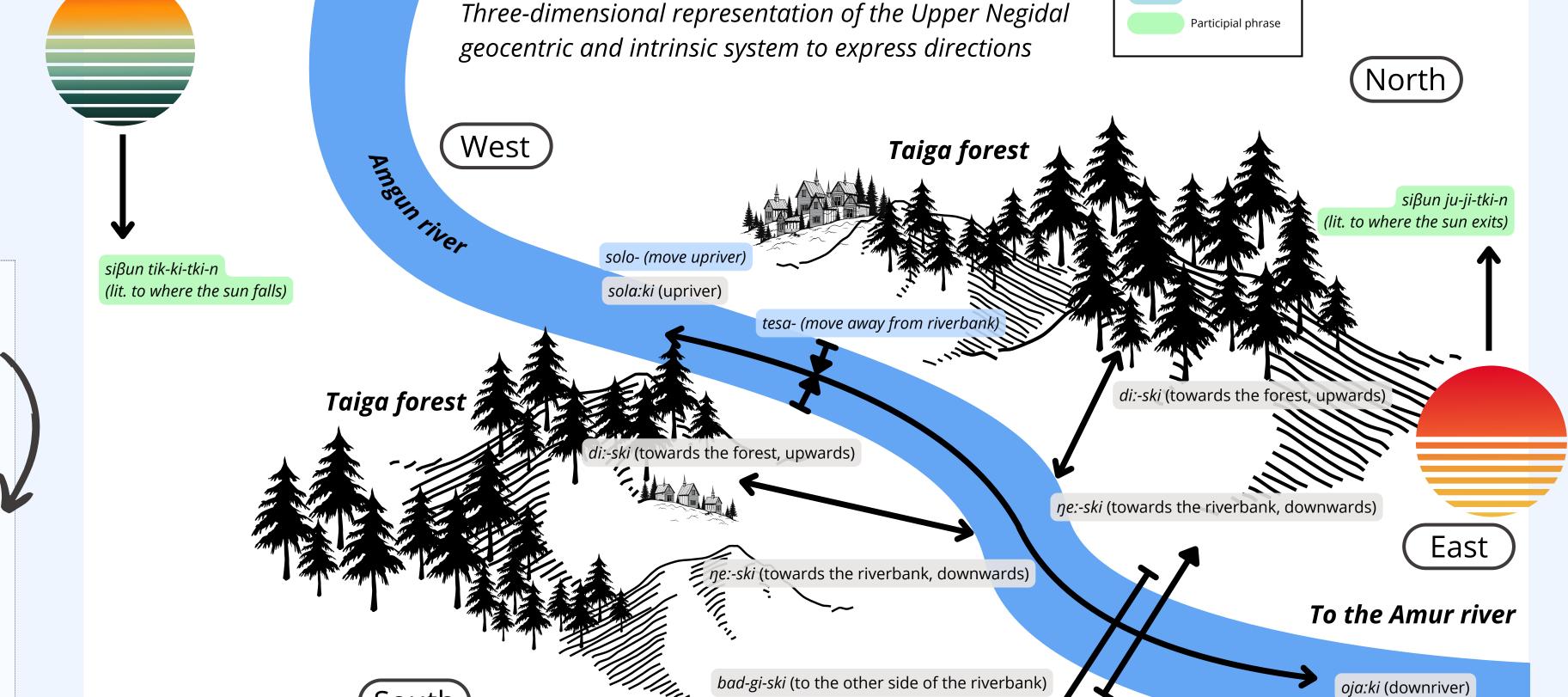
Upper Negidal orientation system

Traditional economy and cultural practices

• Ethnogeographic studies on **Even** (Krivoshapkina

3 Methodology

- Corpus of **206 Upper Negidal narratives** (Pakendorf & Aralova 2017) (archived on the **ELAR repository**) → different genres, 9 different speakers, glossed, Ru & Eng translations, 14 146 utterances
- Working corpus of 3 729 utterances expressing translational spontaneous motion
- Berkeley manual "Coding of Motion Events in Texts" (Slobin 2005)
- Fixed semantic codes are determined by frequency of situation using a three-steps approach: i. Definition given in Cincius' Negidal-Russian lexicon (1982)
 - ii. Utterance-by-utterance check of the context of narration iii. Russian translation provided by the speakers themselves Ex. tesa- 'move away from riverbank' -- V:psog[riverbank]
- 58 additional utterances by targeted concordance search of riverine directionals (adverbs, relational nouns) in non-translational and non-spontaneous contexts (static location/posture & caused-motion)



laurenebarbier@cnrs.fr (D) 0009-0007-7604-4041

https://www.lattice.cnrs.fr/salta/

This study is part of on-going PhD research within the SALTA project (ANR-20-CE27-0015). It was made possible by the financial support of the JSPS Postdoctoral Fellowship (short-term) and the Jean Walter Zellidja Research Grant.











7 Conclusion

- Various riverine directionals are attested. The path of the sun is express directions mainly for ritual-related spatial relations. No directionals based on prevailing winds are found.
- A mainly geocentric FoR is attested using directionals based on the river flow and topographical features such as riverbanks and forests uphill from the riverbeds.
- An intrinsic FoR also seems to be used to describe directions across rivers, with respect to the location of dwellings, traditionally facing rivers.

References

Australian National University (ANU). - Brown, C. H. 1983. Where Do Cardinal Direction Terms Come From? Anthropological Linguistics 25(2). 121–161. - Cincius, V. 1982. Negidal'skij jazyk. Issledovanija i materialy [Negidal language. Research and Materials]. Nauka. Saint-Petersburg. - Fortescue, M. 2011. Orientation systems of the North Pacific Rim. Meddelelser om Grønland. Man & Society 42. – François, A. 2004. Reconstructing the Geocentric System of Proto-Oceanic. Oceanic Linguistics 43(1). 1–31. – Hoffmann, D., Palmer, B. & Gaby, A. 2022. Geocentric directional systems in Australia: a typology. Linguistics Vanguard 8(s1). 67–89. – Honkasalo, S. 2019. A Grammar of Eastern Geshiza: A Culturally Anchored Description. Helsinki: Helsingin yliopisto. - Krivoshapkina, E. & Prokopieva, S. 2016. Ethno-Cultural Concept 'Reindeer Breeding' in the Even Language. Rupkatha Journal on Interdisciplinary Studies in Humanities 8(3). 13-23. - Lavrillier, A. 2005. S'orienter avec les rivières chez les Evenks du Sud-Est sibérien. Un système d'orientation spatial, identitaire et rituel. – Lavrillier, A. & Gabyshev, S. 2017. An arctic indigenous knowledge system of landscape, climate, and human interactions: Evenki reindeer herders and hunters (Studies in Social and Cultural Anthropology). Fürstenberg/Havel: Kulturstiftung Sibirien. – Levinson, S. C. 1996. Language and space. Annual Review of Anthropology. US: Annual Reviews 25. 353-382. - Levinson, S. C. (ed.). 2003. Frames of reference. In Space in Language and Cognition: Explorations in Cognitive Diversity (Language Culture and Cognition), 24-61. Cambridge: Cambridge University Press. - Mamontova, N. & Thornton, T. F. 2022. The multiperspectival nature of place names: Ewenki mobility, river naming, and relationships with animals, spirits, and landscapes. Journal of the Royal Anthropological Institute 28(3). 875-895. - Nagaya, N. 2022. Directionals, topography, and cultural construals of landscape in Lamaholot. Linguistics Vanguard 8(s1). 25-37. - O'Meara, C. & Pérez Báez, G. 2011. Spatial frames of reference in Mesoamerican languages. Language Sciences 33(6). 837-852. - Pakendorf, B. & Aralova, N. 2017. Documentation of Negidal, a nearly extinct Northern Tungusic language of the Lower Amur. http://hdl.handle.net/2196/b644db81-725c-4031-935c-f33c763df152. - Pakendorf, B. & Aralova, N. 2018. The endangered state of Negidal: A field report. Language Documentation & Conservation. University of Hawai'i Press. - Palmer, B. 2007. Pointing at the lagoon: Directional terms in Oceanic atoll-based languages. In Jeff Siegel, John Lynch & Diana Eades (eds.), Creole Language Library, vol. 30, 101–117. Amsterdam: John Benjamins Publishing Company. - Palmer, B. 2015. Topography in language: Absolute Frame of Reference and the Topographic Correspondence Hypothesis. In Rik De Busser & Randy J. LaPolla (eds.), Cognitive Linguistic Studies in Cultural Contexts, vol. 6, 177-226. Amsterdam: John Benjamins Publishing Company. - Palmer, B., Lum, J., Jonathan Schlossberg, J. & Gaby, A. 2017. How does the environment shape spatial language? Evidence for sociotopography. Linguistic Typology 21(3). - Post, M. W. 2019. Topographical Deixis in Trans-Himalayan (Sino-Tibetan) Languages. Transactions of the Philological Society 117(2). 234–255. - Shirai, S. 2020. A geolinguistic study of directional prefixes in the Qiangic language area. Himalayan Linguistics 19. 365–392. – Slobin, D. I. 2005. Coding of Motion Events in Texts. – Whaley, L. & Oskolskaya, S. 2020. The classification of the Tungusic languages. In The Oxford Guide to the Transeurasian Languages, 80-91. Oxford University Press. - Zgusta, R. 2015. Amur and Okhotsk Tungus (Negidal, Eastern Ewenki, Okhotsk Ewen). In The Peoples of Northeast Asia through Time, 165-196. Brill.

Blust, R. 2013. The Austronesian languages (Pacific Linguistics 602). Revised edition. Canberra: Pacific Linguistics, Research School of Pacific and Asian Studies, The

ojaːn- (move downriver)