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Education

Lomonosov Moscow State University

Ph.D. IN GEOGRAPHIC SCIENCES Dec. 2019

Lomonosov Moscow State University

INSTRUCTOR-RESEARCHER IN GEOSCIENCES (POSTGRADUATE TRAINING) 2015 – 2018

Lomonosov Moscow State University

SPECIALIST IN HYDROLOGY (MASTER EQUIVALENT) 2010 - 2015

Professional appointments

Institute of Geography Russian Academy of Science

Laboratory of Geomorphology

POSTDOCTORAL RESEARCHER

Apr. 2020 - present

- Working for the RSF grant No. 19-17-00181 "Quantitative assessment of the slope sediment flux and its changes in the Holocene for the Caucasus mountain rivers"
- Sediment source fingerprinting analysis in small mountain basins
- Suspended sediment modelling on a regional scale (Caucasus)
- Studying short-term and long water discharge and suspended sediment dynamics
- Developed R package for exploring intra-event suspended sediment dynamics

Lomonosov Moscow State University

Faculty of Geography

JUNIOR RESEARCH FELLOW

Jan. 2020 - present

- Organized two international conferences and two schools for young researchers
- Estimated soil erosion for the Eastern Russia (Siberia, Kamcharka, Chukotka)
- Developed algorithm to process short-term logger data (turbidity and water level)
- Developed framework for assessing lateral erosion rates (and volumes) for Arctic rivers

Lomonosov Moscow State University

Faculty of Geography

PHD STUDENT (GRADUATE RESEARCH ASSISTANT)

Sep. 2015 - Dec. 2019

- Title thesis: Suspended sediment load formation in small mountain river basins: general patterns and regional features (defended: 19 Dec 2019)
- · Supervisor: Prof. D.Sc. Valentin Golosov

State Institute of Oceanography (Russia, Moscow)

Information Support Department

· Conducting hydrological measurements: water discharge, water stage, river velocity, river and lake bathymetry

Aug. 2015 - Aug. 2017

- Equipment service: ADCPs, sonars, current meters
- Statistical analysis of main hydrological parameters (AEP, max and min discharges, etc.)
- Flood risk mapping for the Moscow city

Visiting appointments _____

University of Liege (Belgium), Faculty of Sciences, Department of Geography

INVESTIGATING THE ROLE AND RELATIVE IMPORTANCE OF DIFFERENT SEDIMENT SOURCES IN THE PROGLACIAL AREAS OF NORTH

Jan. - Apr. 2018

- ERASMUS+ PhD programm
- · Hosts: Prof. Dr. Matthias Vanmaercke

Palermo University (Italy), Dipartimento di Scienze della Terra e del Mare

MODELING RILL EROSION AND ITS CONTRIBUTION TO CATCHMENT SEDIMENT YIELD IN THE SICILY

Oct. 2016

· Hosts: Prof. Dr. Christian Conoscenti

Tubingen University (Germany), Faculty of Sciences, Department of Geoscience

WORKING FOR THE PEOPLE MARIE CURIE ACTIONS INTERNATIONAL RESEARCH STAFF EXCHANGE SCHEME CALL:

FP7PPEOPLE-2012-IRSES «FLUVIAL PROCESSES AND EROSION DYNAMICS IN EUROPEAN RIVER SYSTEMS: ECOLOGICAL EFFECTS

Sep. - Oct. 2015

OF CLIMATE CHANGE AND HUMAN ACTIVITIES»

· Hosts: Prof. Dr. Michael Maerker, Prof. Dr. Volker Hochschild

Awards & Distinctions

2022	Continental Erosion Commission of the International Association of Hydrological Sciences (IAHS-ICCE) Early	IAHS
2022	Career Committee Representative 2022-2025	IAITS
2021	Outstanding young researcher and graduate student award, Lomonosov Moscow State University	LMSU
2021	Award for serving as a representative of LMSU on international expert panels, Lomonosov Moscow State University	LMSU
2020	Erasmus+ Staff Mobility	European Commission
2018	Erasmus+ International Credit Mobility scholarship	European Commission

Teaching and advising experience _____

Lomonosov Moscow State University, Faculty of Geography	BSc students
Assistant lecturer in «GIS in Hydrology»	2019 — present
Lomonosov Moscow State University, Faculty of Geography	BSc students
TEACHING ASSISTANT IN «FUNDAMENTALS OF HYDROLOGY»	2016 — 2019
Lomonosov Moscow State University, Faculty of Geography	BSc student
Co-supervisor of the BSc thesis «Fluvial processes at Central and Eastern Chukotka (Russia)»	2020 — 2021

Service ____

Peer Reviewer

WATER RESOURCES 2021 – pres
JOURNAL OF SOILS AND SEDIMENTS
ECOHYDROLOGY & HYDROBIOLOGY
WATER 2020 – 2
GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY 2020 – pres

Organizing Committee Secretary

Nov 2021	School for Young Scientists «Multi-Scales and -Processes Integrated Modelling, Observations and	Online Event	
	Assessment for Environmental Applications» %	Offiline Everit	
Aug 20	21 International Conference on the Status and Future of the World's Large Rivers %	Moscow, Russia	
Nov 2020	School for Young Scientists «Pollutant and sediment mobility in river systems: monitoring studies to identify	Online Event	
	human impacts» %		
Aug 2018	The Second International Young Scientists Forum on Soil and Water Conservation and ICCE symposium 2018	Managur Dugaia	
	«Climate Change Impacts on Sediment Dynamics: Measurement, Modeling and Management» %	Moscow, Russia	

Main research interests and expertise ____

- Mountain fluvial geomorphology
- Sediment budget and dynamics
- Soil erosion modeling
- Statistical analyses on heterogeneous datasets and quantifying uncertainties based on Monte Carlo simulation techniques
- Designing and maintaining large databases of measurements on various geomorphic processes
- Quantifying and understanding geomorphic processes at catchment and regional scale
- Designing and conducting fieldwork campaigns (including in Russia (Caucasus, Kamchatka, Chukotka, etc.), Sweden, Italy)





Skill	Russian	English
Reading	Native	C2
Writing	Native	C2
Listening	Native	C1
Speaking	Native	C1

Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Independent User. C1/C2: Proficient User

✓ DEFINING ATTRIBUTES

advanced analytic skills, strategic thinking, resourceful team player, public speaking, organizational & communication skills

TECH SKILLS

Coding Languages	Software	Other
R – Python – MATLAB – GEE	QGIS – ArcGIS – SAGA –	Git – Markdown – LaTex
	WhiteboxTools – Inkscape – Blender	
	– Mendeley/Zotero – Agisoft	
	Metashape	

■ FIELD SKILLS

Land	Water	Lab	Other
UaV SfM – DGPS – TST – Lidar	Sonar – ADCP – Current meters – Water sampling – Automatic turbidity and pressure sensors	Water filtering – Particle size analysis (automatic, manual) – Semi-conductor	High endurance
		gamma-spectrometer	

Other information

- · Co-author and maintainer of the open Russian-English hydrological dictionary hydrowiki.org
- Author and creator of the loadflux R-package a set of tools for comprehensive analysis of the intra-event sediment dynamics
- Hobbies and interests: open source, R programming and coding enthusiast, mountain hiker, table tennis, long-distance runner (best 1:40 for 21.1 km; 4:08 for 42.2 km), mystery stories

Publication statistics

- Co-author of 42 peer-reviewed articles, book chapters, and proceedings
- ca. 30 contributions to conferences (excluding full proceedings)
- ca. 109 citations over the past 5 years, current h-index: 6
- Info and an overview: Google Scholar

Publications (selection)

Russian publications available on request

PENDING

1. Tsyplenkov, A., Kharchenko, S., Uspensky, M., Scheper, S., & Golosov, V. (2022). Quantifying sediment budget of a small low mountain lake (north caucasus, russia). *Earth Surface Processes and Landforms*, In preparation.

PUBLISHED

1. Belyakova, P., Moreydo, V., Tsyplenkov, A., Amerbaev, A., Grechishnikova, D., Kurochkina, L., Filippov, V., & Makeev, M. (2022). Forecasting water levels in krasnodar krai rivers with the use of machine learning. *Water Resources*, 49(1), 10–22. https://doi.org/10.1134/S0097807822010043

- 2. Tsyplenkov, A., Vanmaercke, M., Collins, A. L., Kharchenko, S., & Golosov, V. (2021). Elucidating suspended sediment dynamics in a glacierized catchment after an exceptional erosion event: The Djankuat catchment, Caucasus Mountains, Russia. *CATENA*, 203, 105285. https://doi.org/10.1016/j.catena.2021.105285
- 3. Ivanov, M. M., Konoplev, A. V., Walling, D. E., Konstantinov, E. A., Gurinov, A. L., Ivanova, N. N., Kuzmenkova, N. V., Tsyplenkov, A. S., Ivanov, M. A., & Golosov, V. N. (2021). Using reservoir sediment deposits to determine the longer-term fate of chernobyl-derived 137Cs fallout in the fluvial system. *Environmental Pollution*, 274, 116588. https://doi.org/10.1016/j.envpol.2021.116588
- 4. Golosov, V., & Tsyplenkov, A. (2021). Factors Controlling Contemporary Suspended Sediment Yield in the Caucasus Region. *Water*, *13*(22), 3173. https://doi.org/10.3390/w13223173
- 5. Tsyplenkov, A. S., Golosov, V. N., & Belyakova, P. A. (2021). How did the suspended sediment load change in the North Caucasus during the Anthropocene? *Hydrological Processes*, *35*(10), 1–20. https://doi.org/10.1002/hyp.14403
- 6. Golosov, V. N., Ivanov, M. M., Tsyplenkov, A. S., Ivanov, M. A., Konoplev, A. V., Wakiyama, Y., Konstantinov, E. A., & Ivanova, N. N. (2021). Erosion as a Factor of Transformation of Soil Radioactive Contamination in the Basin of the Shchekino Reservoir (Tula Region). *Eurasian Soil Science*, *54*(2), 291–303. https://doi.org/10.1134/S106422932102006X
- 7. Tsyplenkov, A. S., Ivanova, N. N., Botavin, D. V., Kuznetsova, Y. S., & Golosov, V. N. (2021). Hydrometeorological preconditions and geomorphological consequences of extreme flood in the small river basin in the wet subtropical zone (the Tsanyk River case study, Sochi region). *Vestnik of Saint Petersburg University. Earth Sciences*, 66(1). https://doi.org/10.21638/spbu07.2021.109
- 8. Tsyplenkov, A., Vanmaercke, M., Golosov, V., & Chalov, S. (2020). Suspended sediment budget and intraevent sediment dynamics of a small glaciated mountainous catchment in the Northern Caucasus. *Journal of Soils and Sediments*. https://doi.org/10.1007/s11368-020-02633-z
- 9. Rets, E. P., Popovnin, V. V., Toropov, P. A., Smirnov, A. M., Tokarev, I. V., Chizhova, J. N., Budantseva, N. A., Vasil'chuk, Y. K., Kireeva, M. B., Ekaykin, A. A., Veres, A. N., Aleynikov, A. A., Frolova, N. L., Tsyplenkov, A. S., Poliukhov, A. A., Chalov, S. R., Aleshina, M. A., & Kornilova, E. D. (2019). Djankuat glacier station in the North Caucasus, Russia: A database of glaciological, hydrological, and meteorological observations and stable isotope sampling results during 2007–2017. *Earth System Science Data*, *11*(3), 1463–1481. https://doi.org/10.5194/essd-11-1463-2019
- 10. Kuznetsova, Y., Golosov, V., Tsyplenkov, A., & Ivanova, N. (2019). Quantifying channel bank erosion of a small mountain river in Russian wet subtropics using erosion pins. *Proceedings of the International Association of Hydrological Sciences*, 381, 79–86. https://doi.org/10.5194/piahs-381-79-2019
- 11. Tsyplenkov, A., Vanmaercke, M., & Golosov, V. (2019). Contemporary suspended sediment yield of Caucasus mountains. *Proceedings of the International Association of Hydrological Sciences*, 381, 87–93. https://doi.org/10.5194/piahs-381-87-2019
- 12. Chalov, S. R., Tsyplenkov, A. S., Pietron, J., Chalova, A. S., Shkolnyi, D. I., Jarsjo, J., & Maerker, M. (2017). Sediment transport in headwaters of a volcanic catchment Kamchatka Peninsula case study. *Frontiers of Earth Science*, 11(3), 565–578. https://doi.org/10.1007/s11707-016-0632-x
- 13. Chalov, S. R., Golosov, V. N., Tsyplenkov, A. S., Theuring, Ph., Zakerinejad, R., Maerker, M., & Samokhin, M. (2017). A toolbox for sediment budget research in small catchments. *GEOGRAPHY, ENVIRONMENT, SUSTAIN-ABILITY*, 10(4), 43–68. https://doi.org/10.24057/2071-9388-2017-10-4-43-68

References_

JUL 2022

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- Prof. Dr. Matthias Vanmaercke, Division of Geography and Tourism, KU Leuven, matthias.vanmaercke@kuleuven.be
- Dr. Adrian L. Collins, Sustainable Agriculture Sciences Department, Rothamsted Research, adrian.collins@rothamsted.ac.uk
- Prof. Dr. Christian Conoscenti, Department of Earth and Sea Sciences, University of Palermo, christian.conoscenti@unipa.it