

## Member profile: Prof. Natalia Frolova



Title	Prof.		Research interests in water (select maximum 10)						
Name Surname	Natalia Frolova	Climate & Water	Hydrological extreme events	Water flow	Surface water	Ground water	Marine Environment	Aquatic habitats/ Ecosystems	Water availability
		Water in arid areas	Floods X	Catchment processes	Limnology	Soil water	Coastal waters	Wetlands	Water utility
E-mail address	frolova_nl@mail.ru	Arctic water X	Droughts X	Run-off generation	Fluvial dynamics	Karst water	Estuarian waters	Lakes	Water storage
		Water cycle	Ice phenomena X	Groundwater-Surface water interactions	Continental scale processes	Hydrogeology		Peatlands	Dams / Reservoirs
<u>Affiliation</u>		Atmospheric water		Hyporheic processes	Dams / Reservoirs	Recharge		Rivers	Water scarcity
Name of Employer	Lomonosov Moscow State University	Glaciers & Cryosphere X		Interstitial water	Sediments				Supply & Distribution
Institute/ department	Faculty of Geography/Department of Hydrology			Porewater	Rivers X				Water allocation
Country	Russia			Alluvial water	Floodplains				Water restrictions
Tel nr.	74959391533								
Fax nr.	74959391001	Modelling and GIS	Water quality	Water & Health	Water & Energy	Water management/ policy	Water use	Water Law & Economics	Socio-political aspects
Physical address	Leninskiye Gory, GSP-1, Moscow State University, Moscow, 119991, Russia								
Postal address	Leninskiye Gory, GSP-1, Moscow State University, Moscow, 119991, Russia	Hydro GIS	Pollution	Water & Sanitation	Water-Energy nexus	Integrated Catchment management	Urban	Water trade	Water history
Skype name	nl_frolova	Groundwater modelling	Purification	Water & Food	Water for energy	Integrated water resource management	Agricultural	Virtual water	Water wars
Website	https://istina.msu.ru/home/	Surface water modelling	Hydrochemistry	Waterborne diseases	Energy for water	Water loss	Mine water	Privatisation	Water & Poverty
		Remote sensing X	Treatment	Drinking water	Water, Food & Energy	Reticulation & Supply	Industrial	Water as public good	Access to water
Study areas			Desalination	Water purification		Transboundary water	Grey water	Right to water	_
Countries	Russia, Kazakhstan		Waste water				Green water	Bills & Laws	
Region			Sewage				Blue water	Affordability	
Topics of last three proje	ects  Grant of the Russian Foundation for Basic Research "Influence of climate changes on formation of the r	unoff and the dangerous					Return water		
1	hydrological phenomena in the south of the European territory of Russia" Grant of the Russian Foundation for Basic Research "Research of modern features of formation of a spr	-					Water sustainability X		
2	the European territory of Russia and Western Siberia in the conditions of non-stationary climate and an Grant of Russian Science Foundation "River runoff parametrization for identification of hydrological haz	thropogenous"				Others (-1	Competing water use		
3	consequences"					Other (please specify)			
Empleiana di autholitica in C						Hydrological education			
Envisioned activities in C						nyurological education			
attend/ organise meetings contribute to publications	Yes								
read newsletter	Yes								
joint research, collaboration				Research interests in water (supply 5 keywords)	Dangerous hydrological processes	2	3	4	5
Other (please specify)	· · · <del>- ·</del>								
(F)									

	Topics of last 10 publications	<u>Publication links</u>
1	Alekseevsky N., Frolova N., Zhuk V. Predicting floods and their effects in the northern European part of Russia. Environmental change and rational water use. (O.Scarpati and J.A.A.Jones, Eds.) Buenos Aires. 2007, pp. 341-352.	1
2	Alexeevskiy N. I., Frolova N.L. The Analysis of Dangerous Hydrological Processes for the Terek River Basin In: Threats to Global Water Security. Edited by J. Anthony A. Jones, Trahel G. Vardanian, Christina Hakopian.  NATO Science for Peace Security Series	2
3	M. B. Kireeva, N. L. Frolova, E. P. Rets et al. The role of seasonal and occasional floods in the origin of extreme hydrological events. // Proceedings IAHS, Extreme Hydrological Events. — Vol. 369. — 2015. — P. 109–113.	doi:10.5194/piahs-369-109-2015
4	Dzhamalov R.G., Frolova N.L., Safronova T.L., Telegina A.A., Bugrov A.A. Distribution and Use of Present Day Water Resources in European Russia // Water Resources. 2015. 42 (1). 28-37.	DOI: 10.1134/S0097807815010030
5	N. Frolova, E. Krasnova, M. Fatkhi et al. The applicability of remote sensing and geodetic methods for studying water bodies on the western white sea coast // EARSeL eProceedings. — 2015. — Vol. 14, no. 1. — P. 71–80.	D0I:10.12760/02-2015-1-10
6	Zotov L., Shum C., Frolova N. Gravity changes over Russian rivers basins from GRACE. In book: Planetary Exploration and Science: Recent Results and Advances. Springer Geophysics. 2015. 45-59.	DOI:10.1007/978-3-662-45052-9_3
7	H. A. Van Lanen, G. Laaha, E. Rets, N.Frolova et al. Hydrology needed to manage droughts: the 2015 european case // Hydrological Processes. 2016. Volume 30, Issue 17 P. 3097–3104.	DOI: 10.1007/978-3-662-45052-9_3
8	N. L. Frolova, M. B. Kireeva, D. V. Magritckiy et al. Hydrological hazards in russia: origin, classification, changes and risk assessment // Natural Hazards. — 2016. — P. 1–29.	DOI:10.1007/s11069-016-2632-2
9	Y. K. Vasil'chuk, E. P. Rets, J. N. Chizhova, Tokarev L.V., Frolova N.L., Budantseva N.A., Kireeva M.B., Loshakova N.A. et al. Hydrograph separation of the Dzhankuat r., North Caucasus, with the use of isotope methods // Water Resources. 2016. Vol. 43,	DOI: 10.1134/S0097807816060087
10	S. A. Agafonova, N. L. Frolova, I. N. Krylenko et al. Dangerous ice phenomena on the lowland rivers of European Russia // Natural Hazards. 2016. P. 1–18.	DOI: 10.1007/s11069-016-2580-x