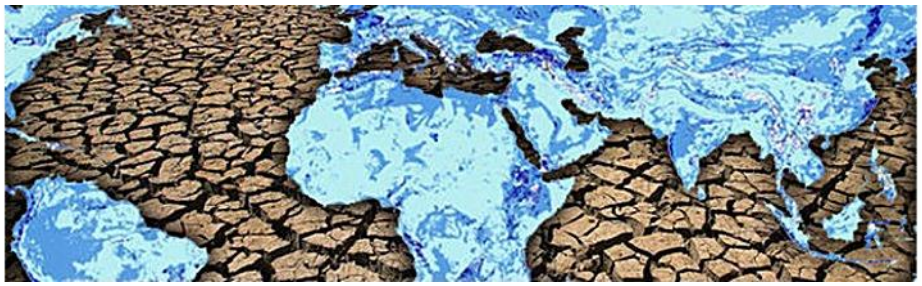
Commission for Water Sustainability



MEMBER PROFILE

Prof. Natalia Frolova

Country: **Russia**

Affiliation: **Lomonosov Moscow State University - Faculty of Geography/Department of Hydrology**

Contact Details

E-Mail Address:	**frolova_nl@mail.ru**
Website	https://istina.msu.ru/home/
Tel nr.	74959391533
Fax nr.	74959391001
Physical address	Leninskiye Gory, GSP-1, Moscow State University, Moscow, 119991, Russia
Postal address	Leninskiye Gory, GSP-1, Moscow State University, Moscow, 119991, Russia
Skype name	nl_frolova

Study areas

Countries	Russia, Kazakhstan

Topics of last three projects

1	Grant of the Russian Foundation for Basic Research "Influence of climate changes on formation of the runoff and the dangerous hydrological phenomena in the south of the European territory of Russia"
2	Grant of the Russian Foundation for Basic Research "Research of modern features of formation of a spring high water on the rivers of the European territory of Russia and Western Siberia in the conditions of non-stationary climate and anthropogenous"
3	Grant of Russian Science Foundation "River runoff parametrization for identification of hydrological hazards and their environmental consequences"

Topics of last 10 publications		Publication links
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.I., 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.	DOI: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 I.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

Research interests in water

Climate & Water	Water in arid areas	**Arctic water**	Water cycle	Atmospheric water	**Glaciers & Cryosphere**					
Hydrological extreme events	**Floods**	**Droughts**	**Ice phenomena**							
Water flow	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porwater	Alluvial water			
Surface water	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	**Rivers**	Floodplains			
Ground water	Soil water	Karst water	Hydrogeology	Recharge						
Marine Environment	Coastal waters	Estuarian waters								
Aquatic habitats/ Ecosystems	Wetlands	Lakes	Peatlands	Rivers						
Water availability	Water utility	Water storage	Dams / Reservoirs	Water scarcity	**Supply & Distribution**	Water allocation	**Water restrictions**			
Modelling and GIS	Hydro GIS	Groundwater modelling	Surface water modelling	**Remote sensing**						
Water quality	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
Water & Health	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
Water & Energy	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
Water management/ policy	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
Water use	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	**Water sustainability**	Competing water use
Water Law & Economics	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
Socio-political aspects	Water history	Water wars	Water & Poverty	Access to water						