

Julia Selivanova

iuliia.selivanova@unibo.it

Personal information

Date of birth 30/03/1994
Gender female

Work experience

Dates	November 2019-onward
Occupation or position held	Doctoral research fellow
Main activities and responsibilities	Representation of sea ice properties in global ocean reanalyses and coupled climate models
Name and address of employer	Centro Euro-Mediterraneo sui Cambiamenti Climatici, Ocean modelling and data assimilation division, Bologna, Italy
Dates	January 2019-October 2019
Occupation or position held	Research assistant
Main activities and responsibilities	Climate data processing, analyzing and visualization. The main study is an impact of sea ice cover on the biological production and fisheries in marginal seas of Russia
Name and address of employer	The Russian Research Institute of Fisheries and Oceanography, Moscow, Russia
Dates	July 2015-October 2019
Occupation or position held	Research assistant
Main activities	Climate data processing, analyzing and visualization. Turbulent heat fluxes response to changes in sea ice area in the Arctic; observation-based analysis of extreme temperature events.
Name and address of employer	Sea-atmosphere interaction laboratory (Dr. Sergey Gulev lab), P.P. Shirshov Institute of Oceanology, Moscow, Russia
Dates	June 2017
Occupation or position held	intern
Main activities	Weather forecast
Name and address of employer	Main Aviation Meteorological Center of the Federal Service for Hydrometeorology and Environmental Monitoring of Russia, Vnukovo Airport Moscow, Russia
Dates	August 2015
Occupation or position held	intern
Main activities and responsibilities	Providing in-situ measurements of bio-optical, temperature and salinity characteristics in the Vityaz Bay
Name and address of employer	Marine Experimental Station "Schultz Cape", Laboratory of Laser Optics & Spectroscopy of the V.I.Ilyichev Pacific Oceanological Institute, Vladivostok, Russia

Dates	July 2015
Occupation or position held	intern
Main activities	Providing in-situ measurements of temperature, salinity, velocity and oxygen in the Baltic Sea, analysis of near-shore circulation and water mass structure in the southern-eastern part of the Baltic Sea
Name and address of employer	The Atlantic Branch of the P.P. Shirshov Institute of Oceanology, Baltiysk

Dates	August 2014
Occupation or position held	intern
Main activities	Providing vessel meteorological observations, meteorological data encoding and decoding
Name and address of employer	Professor Molchanov Arctic Floating University expedition

Dates	June-July 2014
Occupation or position held	intern
Main activities	Field practical training in oceanography
Name and address of employer	The Southern Branch of the P.P. Shirshov Institute of Oceanology, Gelendgik

Dates	June-July 2013
Occupation or position held	intern
Main activities	Field practical training in general geography (topography, geomorphology, hydrology, meteorology, biogeography, soil science)
Name and address of employer	Scientific Centre of Lomonosov Moscow State University, Satino, Moscow region

Education and training

Dates	August-October 2022
Occupation or position held	Visiting Researcher at Marine and Antarctic Research Centre for Innovation and Sustainability, University of Cape Town. Supervisor: Marcello Vichi

Dates	November 2019-present
Occupation or position held	PhD student; PhD programme "Future Earth, climate change and societal challenge"; Thesis title: advanced representation of ocean/sea ice dynamics at high latitudes. Advisor: Doroteaciro Iovino
Name and type of organisation providing education and training	University of Bologna

Dates	September 2016-June 2018
Title of qualification awarded	Master in Hydrometeorology (with honours)
Principal subjects/occupational skills covered	Climate theory, Sustainable development, Theory of general atmospheric circulation, Major variability modes of general circulation of the atmosphere
Name and type of organisation providing education and training	Lomonosov Moscow State University, Geography faculty, Department of meteorology and climatology

Dates	September 2012-June 2016
Title of qualification awarded	Bachelor in Hydrometeorology (with honours)

Principal subjects/occupational skills covered	Mathematical analysis, Differential equations, Physical oceanology, Interaction of ocean and atmosphere, Physical meteorology, Dynamical meteorology, Theoretical mechanics and hydromechanics
Name and type of organisation providing education and training	Lomonosov Moscow State University, Geography faculty, Department of oceanography

Personal skills and competences

Mother tongue(s)	Russian
Other language(s)	English – upper-intermediate+ Italian – intermediate
Computer skills and competences	Systems: UNIX, Mac OS-X, Windows Programming languages: Python, Fortran Other software: Ocean Data View, CDO, NCO, LaTeX
Conferences and schools	<p>October 2022</p> <p>Arctic processes in CMIP bootcamp</p> <p>February 2022; USA (online)</p> <p>The Ocean Sciences Meeting. Oral presentation “Changes in the Antarctic marginal ice zone”</p> <p>February 2022; Christchurch, New Zealand (online)</p> <p>13th International Conference on Southern Hemisphere Meteorology and Oceanography (ICSHMO 2022). Poster presentation “Antarctic marginal ice zone in global ocean reanalyses”</p> <p>September, 2021; Italy (online)</p> <p>The 9th SISC annual conference on “Accelerating Climate Action: A just transition in a post-Covid era”. Poster presentation “Antarctic sea ice in global ocean reanalyses”</p> <p>April 2021; Vienna, Austria (online)</p> <p>Presentation “Antarctic sea ice in global ocean reanalyses” EGU conference</p> <p>January 2020; Tromso/Svolver, Norway</p> <p>The Arctic Frontiers conference oral presentation “Observation-based analysis of the temperature extremes in the Russian Arctic” ARCTOS PhD workshop</p> <p>December 2019; Bologna, Italy</p> <p>Copernicus Marine Service Training Workshop for Mediterranean Sea</p> <p>September 2019; Saint Petersburg, Russia</p> <p>ACRONOR summer school</p> <p>May 2019; Moscow, Russia</p> <p>ICTP Young Scientist School and Conference on Computational Information Technologies for Environmental Sciences</p>

Publications

Iovino, D., **Selivanova, J.**, Lavergne, T., Cipollone, A., Masina, S., and Garric, G. (2022). Changes in the Antarctic Marginal Ice Zone, in Copernicus Marine Service Ocean State Report, Issue 6. J. Oper. Oceanography 1, 1. accepted.

Iovino, D., **Selivanova, J.**, Masina, S. and Cipollone, A. (2022). The Antarctic Marginal Ice Zone and Pack Ice Area in CMEMS GREP Ensemble Reanalysis Product. Front. Earth Sci. 10:745274.doi: 10.3389/feart.2022.745274

M. Baker et al. "Shifts in the physical environment in the Pacific Arctic and implications for ecological timing and conditions" (2020); Deep Sea Research Part II.

Verezemskaya P. et al. "Projection and Analysis of Climate Change in the Russian Part of the Barents Sea" (2019); WWF project.