

RSHU scientific research: main directions, existing collaboration and future perspectives

ALEXANDRA ERSHOVA, PHD

ASS. PROFESSOR, DEPT. OF GEOECOLOGY, ENVIRONMENTAL
MANAGEMENT AND ECOLOGICAL SAFETY

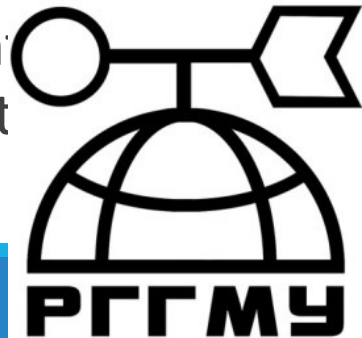
HEAD OF DEPARTMENT FOR RESEARCH AND INNOVATIONS

RUSSIAN STATE HYDROMETEOROLOGICAL UNIVERSITY (RSHU)



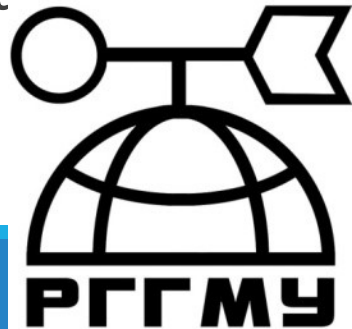
Main directions of scientific research in Russian State Hydrometeorological University

- Environmental protection, monitoring, modeling of natural and technogenic processes in water bodies and in the atmosphere
- Theoretical and experimental studies of hydrophysical, hydrochemical and hydrobiological processes in marine environment and coastal zones
- Integrated management of coastal zones of the seas of Russia, sustainable socio-economic development of coastal territories, rational use of natural resources
- Problems of rational use of aquatic bioresources and aquaculture
- Study of water resources and water quality under the natural development of hydrometeorological processes for management and protection of freshwater systems



Main directions of scientific research in Russian State Hydrometeorological University

- Study of atmospheric processes and phenomena, assessment of climate change under the influence of natural and anthropogenic factors
- Development of models and forecasting systems of natural and technogenic catastrophic situations on water bodies and in the surface layer of the atmosphere.
- Multisensor geographic information systems for remote environmental monitoring. Technologies for the collection, processing, transformation and modeling of geoinformation, information security in geoinformation systems.
- Socio-economic, environmental, geopolitical problems of the development of the Arctic zone of the Russian Federation and the protection of national interests in the Arctic.



Research projects

- Ministry of Education and Science of RF
- Ministry of Natural Resources of RF
- Russian Science Fund
- Russian Foundation for Basic Research
- International programmes: INTERREG, ERA NET, CBC, etc.
- Regional programmes and agreements

- 2020 – total funding ca. 100 000 000 RUB (1 250 000 EUR)



Research Laboratories and Institutes

- Satellite Oceanography Laboratory - SOLab

Head: prof. Vladimir Kudryavtsev

- Laboratory of Modelling of Upper and Middle Atmosphere

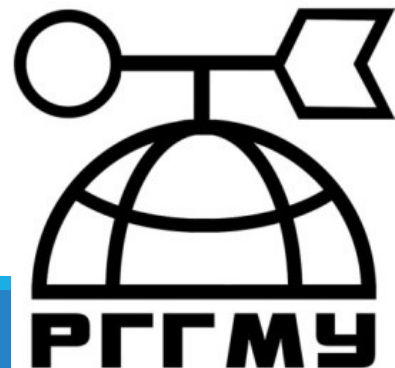
Head: prof. Sergey Smyshlyaev

- Laboratory for Plastic Pollution Research – Plastic Lab

Head: ass.prof Alexandra Ershova

- Institute of Geoecological Engineering

Head: Dmitry Shilov



Contacts:

Alexandra Ershova

Ass. Professor, Dept. of Geoecology, environmental management and ecological safety

Head of Department for Research and Innovations

Russian State Hydrometeorological University (RSHU)

ershova@rshu.ru

