



**SHIRSHOV INSTITUTE  
OF OCEANOLOGY**  
*of Russian Academy of Sciences*

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Your strategic partner  
in the World Ocean study,  
research and development



The largest Russian Research Centre for the World Ocean studies, operator and manager of its own research fleet



The Institute operates and manages the research fleet of 5 heavy and medium displacement ships: *R/V Akademik Ioffe*, *R/V Professor Shtokman*, *R/V Akademik Sergey Vavilov*, *R/V Akademik Mstislav Keldysh*, *R/V Akademik Nikolay Strahov*, along with smaller vessels.



By the end of 2017 the *R/V Akademik Boris Petrov* and 8 other vessels from RAS Far East Division will reinforce our research fleet, as they will be transferred under our management and administration.



The Institute offers expert assistance in arranging of Russian and international marine expeditions. The services include technical operation and management of the vessels, setup of diving operations and potentially dangerous underwater objects investigations.

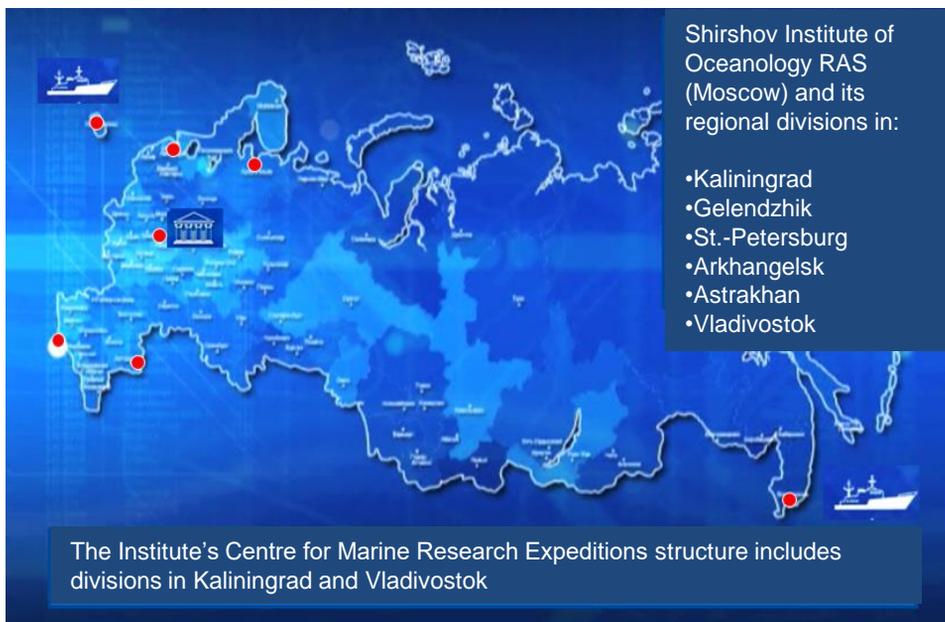


The research fleet enables the Institute with vastest opportunities of ocean research. Scientific data collected during our expeditions, examined and processed, find their publication in world's leading academic journals and magazines.



## Shirshov Institute of Oceanology RAS

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The wide net of the Institute's operating divisions enables research of the Atlantic, the Pacific and the Arctic Oceans, as well as of the Baltic, the Caspian and the Black Seas.

Today the Institute employs 1,269 members of staff, including 116 Doctors of Sciences (*the highest academic degree in Russia*) and 262 Candidates of Sciences (*accordingly PhD's*) in various fields.

The Institute deals with the following fields:

- Ocean physics,
- Marine Geology and Geophysics,
- Marine Biology and Ecology,
- Ocean climate studies,
- Ocean engineering,
- Comprehensive research of the Russian seas and the key areas of the World Ocean,
- Natural extremities and technical incidents in the ocean.





## Cooperation possibilities on common grounds of integrated scientific research

Scientific, informational and environmental support at the implementation of large-scale projects, aimed at the exploration, extraction and transportation of natural resources (including oil and natural gas), on-shelf and in the open ocean.



Predictive estimates of climate changes, as well as of the thickness, structure and dynamics of the ice covers alongside the Northern Sea Route and in the mining areas placed in the coastal Arctic waters.



Scientifically based risk/safety assessment for laying and exploiting of offshore pipelines.  
Assessment of risks and hazards associated with maritime transport-related accidents.



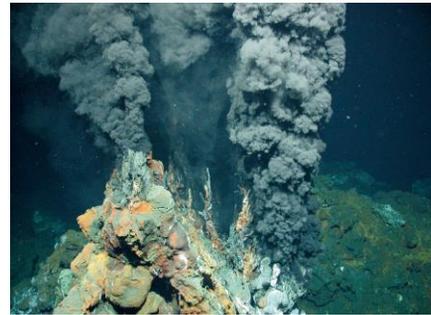
Comprehensive monitoring of extreme wind-wave conditions on the ocean surface, seismic seabed activity, of catastrophic sea level rises, and cyclonic activity in the World Ocean.





## Cooperation possibilities on common grounds of integrated scientific research

Assessment of risks associated with underwater earthquakes, landslides and tsunamis, natural emissions of methane from bottom sediments, marine pest invasions and other natural hazards.



Studies of the environment and of biological productivity of the Russian seas influenced by climate changes and implementations of large-scale projects on extraction and transportation of natural raw materials.



Towed and remote-controlled underwater vehicles for exploration of ocean floor topography and biodiversity. Also good for the seabed-level inspections of dangerous objects, as well as for rescue and underwater operations.



Technical testing grounds can be deployed in the open sea for monitoring of hydrophysical and environmental composition of waters fulfilled by means of state-of-the-art scientific technologies and equipment.





## Cooperation options



Chartering of research vessels operated by the Shirshov Institute of Oceanology RAS.



Cooperative development of large-scale scientific/technical projects for your industry by using employees, scientific infrastructure and expertise of the Institute.



Expert evaluation of third-party scientific and technical projects aimed at research and development of the World Ocean.



Participation in building of joint science/technology 'platforms' for testing and implementing of innovating technologies in ocean development.



## CONTACTS

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