





Northern Arctic Federal University

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Russian Arctic Policy in Education and Research



Basic Principles of State Policy of the Russian Federation in the Arctic for the Period up to 2020 and Further

Strategy of Development of the Russian Arctic and National Security for the Period up to 2020

List of Priority Projects in the Arctic Zone of the Russian Federation

Main areas of the Russian Arctic development:

- Integrated development of the Northern Sea Route:
- Preservation of the Arctic ecosystem and elimination of accumulated environmental damage;
- Integrated use of marine and terrestrial bioresources;
- Development of telecommunication infrastructure:
- Development of solid minerals;
- Development of tourism;
- Development of air connections;
- Development of the energy systems;
- Development of hydrocarbon resources;
- Yamal LNG Project;
- Civil shipbuilding

Northern Arctic Federal University Total number of students NArFU mission: protection Academic staff, total 1163 of Russian geopolitical and having D.Sc./ PhD economic interests in the 71% Arctic by creating a system of continuous professional **Higher Schools** education, integration of **Institutes / Colleges / Campuses** education, science and industry, as well as by strategic partnership with 41 **Research Centers and Labs Educational programs, total** over 360



NARFU HIGHER SCHOOLS AND CAMPUSES







Arkhangelsk Campus

Higher School of

Information Technologies

and Automated Systems

Higher School of Energy, Oil and Gas

Higher School of Psychology, Pedagogy and Physical Training Higher School of Natural
Sciences and
Technologies

Higher School of Economics, Management and Law

Severodvinsk Campus Koryazhma Campus Higher School of Engineering

Higher School of Social Sciences, Humanities and International Communication

Naryan-Mar Representative Office



NARFU PRIORITY RESEARCH FIELDS



- * Comprehensive study of the northern nature aimed at bio-resources managing
- * Modeling of physical processes and systems occurring in the Arctic
- * Formation of environment eco-analytical control system

Construction and energy in Cold Climate

- * Investigating properties of structurally unstable soils and industrial ground
- * Ensuring safety and energy efficiency of buildings and complexes in the European North



*Creation of scientific basis of chemical and biotechnological use of renewable resources for solution of Arctic development's problems

Human dimension in the Arctic

*Adaptation and human health in the North

Mineral resources of the Arctic areas and resources

*Development of a monitoring system to intensify the process of oil extraction, hydraulic fracturing modeling under the Arctic climate conditions.

Shipbuilding and ship repairing

IT Technology









NArFU Research Infrastructure







Center of Research Equipment for Collective Use «Arktika»

Center of the Arctic Remote Sensing

Center of Research Equipment for Collective Use -2

Arctic Biomonitoring Laboratory

Laboratory of Molecular Ecology and Phylogenetic

Center for Innovation "Arctic Oil and Gas Laboratory Research"

Center for Innovation "Modern Technologies for Northern Bio-Resources Processing"

Education and Research Centre of Energy Innovation

Research Centre "Construction in Extreme Climate"

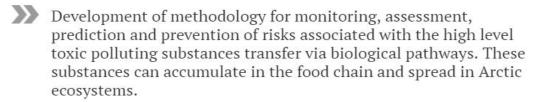
Laboratory for Emergency Prevention and Modelling

Arctic Centre of Strategic Research

Technology Center of Shipbuilding and Arctic Marine Engineering (cluster in Severodvinsk)

ARCTIC BIOMONITORING CALVABORATORY

Direction of scientific research http://narfu.ru/biomonitoring/en/





Yngvar Thomassen - Leading Scientist

He has given over 275 presentations on various aspects of his research, of which 105 were invited lectures at major conferences and symposia. In the period 1983-91 he was a member of the Commission on Toxicology, International Union of Pure and Applied Chemistry (titular) member from 1986, where he initiated the development of human

body fluids as quality assurance materials for the measurement of minor, trace and ultra-trace elements and organic metabolites. From 2011-2014 he served as a titular member in the Analytical Chemistry Division.









Arctic Floating University: An On-Board School Exploring the Russian Arctic

ORGANIZERS: NArFU, RosHydroMet, Russian Geographical Society

- ✓ 9 expeditions to the Arctic Ocean
- **✓ 27** HEIs
- \checkmark Since 2013 the expedition has been an international one

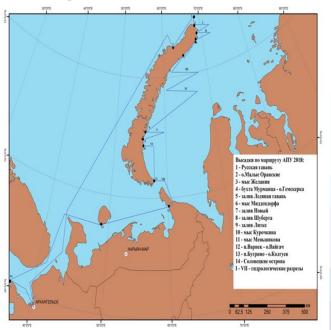
Aims: monitoring of the environmental state of water and coastal areas in the western Russian Arctic; training of research and production personnel for the region.

Since 2012 – about 500 participants from 12 countries, including 200 students.

The researchers have covered over 30 000 nautical miles.



Expedition Route 2018





Arctic Floating University







27 PARTNER ORGANIZATIONS

July 2018 – 10th expedition: *Terrae Novae*



University of the Arctic

Vision

An Empowered North
- With Shared Voices

Our Values
Circumpolar
Inclusive
Reciprocal

More than 180
Institutions
from Arctic and
Non-Arctic countries

Japan: Hokkaido University



Mission

Empower the people of the Circumpolar North by providing unique educational and research opportunities through collaboration within a powerful network of members.

Goals 2020

- ☐ Educational Access for Northern
 - Students
 - ☐ Research Representation in
 - the North

 Expanding
 - Knowledge of the
 - North ☐ Engaged
 - Membership

Network









INTERNATIONAL ARCTIC FORUM

ARKHANGELSK • RUSSIA • 2017











INTERNATIONAL ARCTIC FORUM ARKHANGELSK • RUSSIA • 2017



Welcome to:

March, 2019, NArFU - International Forum "Arctic: Territory of Dialogue" International School "Russia in the Arctic Dialogue".

2020, NArFU – Congress of the International Arctic Social Sciences Association (IASSA)



