AARI's Arctic activities

Report to FARO

ASSW-2014, Helsinki, 5 April 2014

AARI Polar Observatories Network



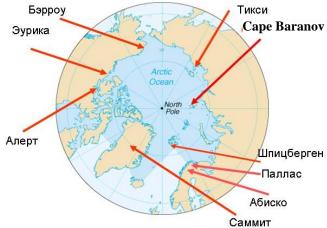
Main building HMO Tiksi



The 20 m tower for turbulent fluxes measurements



Clean air facility

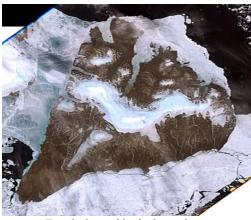


Main directions of observations:

- -standard meteorology and radiosoundings
- -surface aerosol, including black carbon
- -surface radiation balance
- -UV radiation, total ozone content and ozone in low stratosphere
- -surface heat balance and CO2 /Methane fluxes -permafrost, hydrology and geomorphology
- drifting and fast ice
- oceanography



Science Center at Spitsbergen



Bolshevik island

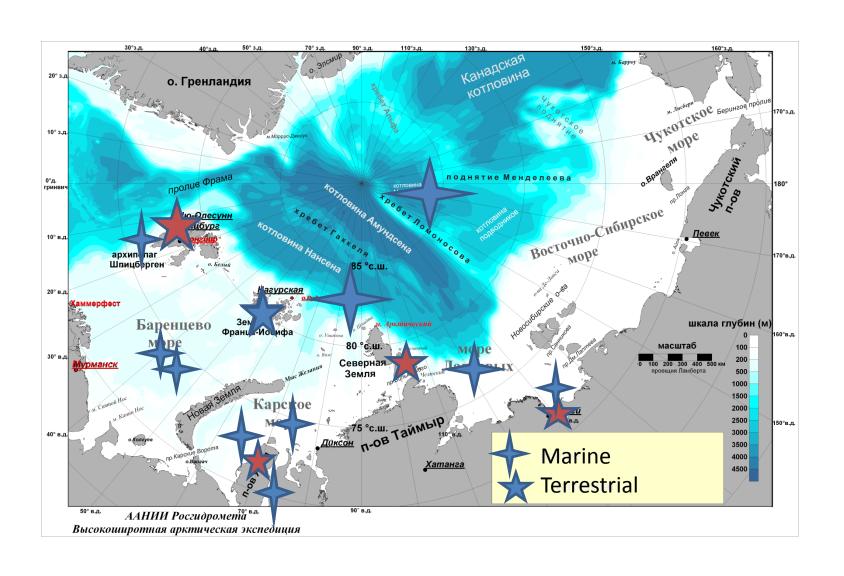


Station "Baranov Cape"



Meteorological observations

Main Russian marine and terrestrial research activities in 2013



Common use Facilities of RSCS







Laboratory Building 1
The reconstruction of the Laboratory Building 1 of RSCS was completed. The LB1 produces favorable labour conditions (Internet, comfortable work places, computers, copying equipment) for all employees performing f studies on Spitsbergen.





Equipment and Vehicles Warehouse
The reconstruction of the RSCS warehouse was
completed. It is designed for warm storage of
expeditionary devices and equipment.Cold storage is
under construction



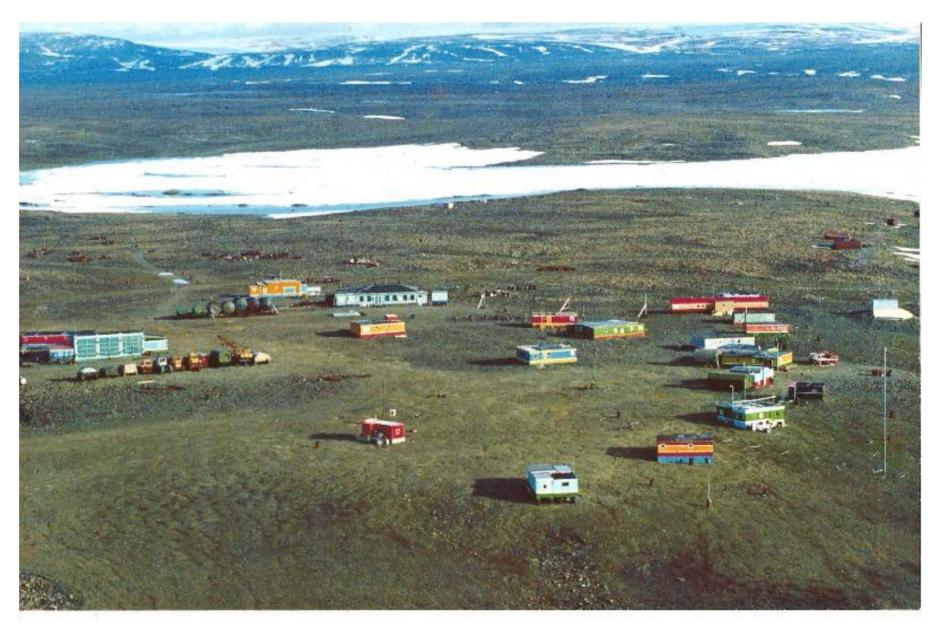


Laboratory and Analytical Building 2
(Geochemical and Hydrochemical Laboratory) 2
The reconstruction of the spare diesel generators building of Hydrometeorological observatory "Barentsburg" into the Geochemical Laboratory of RSCS is completed at 90%.



"Baranov Cape" AARI's Research Base view





New research and supply vessel for the Antarctic – "Akademik Treshnikov"



"North Pole" future development



To be able to continue scientific research on higher latitudes of the Arcic Ocean under the conditions of warming climate, Russia has to develop new technologies and it was suggested that Russia as soon as possible should start developing a self-propelled, icestrengthened floating platform for scientific research. At this moment the project has a 1,7 billion rubles (app €40 million) price tag at the beginning.

Self driving ice-strengthen platform for Central Arctic Ocean Studies



