

Russia

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Summary of Operational and Planned Oceanographic Observation Programs

Moorings

7 deep-water buoys were established in the Laptev Sea in cooperation with International Arctic Research Centre (Fairbanks, Alaska, USA) and German Alfred Wegener Institute on Polar and Marine Research.

ARGO

2 active mid January 2012. ARGO center established in FERHRI. <http://www.ferhri.ru/>

To see latest status of floats go to:

<http://wo.jcommops.org/cgi-bin/WebObjects/Argo.woa/wa/default>

and select Monitoring and Countries.

Sea Level

12 GLOSS stations, latest data posted by GLOSS 2010.

<http://www.psmsl.org/data/obtaining/> See also BOOS below. Petropavlovsk Vladivostok,

Magadan and Station Tixi are GPS positioned. <http://www.sonel.org/spip.php?page=cgps>

Archive of sea-level values at 71 stations located on the continental coast and on Islands in the Barents, KARA, Laptev, East Siberian and Chukotka seas.

<http://ocean2x.aari.nw.ru/index.php?id=507> See also

<http://www.ioc-sealevelmonitoring.org/index.php> for near real-time information at 7 sites.

CTD/XBT/TSG

XBT/XCTD on research cruises only.

TS Hydrography

North-eastern Black Sea, STD seasonally.

Eastern Baltic, STD seasonally

Atlantic to 60N, STD once a year.

Western sea of Japan, STD seasonally

Eastern White Sea, Bathometer once a year.

Barents Sea, STD once a year

VOS

Roughly 900 ships participating in VOS program.

DART

Maintains one DART station in the NW Pacific. <http://www.ndbc.noaa.gov/dart.shtml>

Sea Ice

ALISA: Automated Sea-Ice Information System. The AARI Centre of Ice and Hydrometeorological Information, based on automated Ice Information for the Arctic (Russian acronym ALISA), provides weather and ice data as well as short-term (from 1 to 3 days) and medium-term (from 3 to 8 days) ice forecasts for the Arctic regions, including the Arctic Basin. Forecasts are prepared on the basis of all available data obtained from satellites, aircraft, drifting buoys, coastal polar stations, ships of opportunity (icebreakers and transport vessels) as well as research expeditions.

http://www.aari.ru/default_en.asp <http://www.aari.nw.ru/gdsidb>

Additionally, ALISA provides ships and other users twice daily meteorological bulletins containing sea ice information for Arctic regions under the SafetyNET program.

<http://www.boos.org/index.php?id=22>

Satellites

SMOS launched November 2, 2009. It is the first satellite designed to map both SST and monitor soil moisture on a global scale. Other Russian programs are:

Electro-LN1-2011, SST and Sea Ice.

Electro-LN2-2013, SST and Sea Ice

Electro-MN1, 2018

Electro-LN3, 2015

METEOR-M-N1(P), 2009

METEOR-M-N2, 2012

METEOR-M-N2, 2014

METEOR-M-N3, 2015

Status of current and Future Satellites:

<http://www.wmo.int/pages/prog/sat/satellitestatus.php>

Black Sea

Coastal observations: 5 Hydromet Stations, Met plus T(w), Sal, SL, waves.

Open sea: VOS met obs 200/300 per year; deep sea standard sections (most to 500 meters, some to 2000 meters) 3-4 times each year.

Pollution Monitoring – 24 stations at 5 sites. Sal, Dissolved Oxygen, total Alkalinity, pH, Hydrocarbons, Trace metals. Samples obtained every 2 months.

Assessment of dynamics and pollution of the coastal waters on the base of regional satellite monitoring and ground data.

BOOS

Coastal observations: 7 Hydromet stations, Met plus T(w), Sal, SL, waves; 2 Met only stations.

Sea level data from “Gorny Institute”, “Kronshtadt” and “Hogland” in the Gulf of Finland in automatic mode, 10 minute intervals.

<http://www.boos.org/index.php?id=22>

NEAR-GOOS

Data of regular meteorological observations from three Russian coastal stations (Vladivostok, Nakhodka, Posyet) are contributed to NEAR-GOOS real time database.

This database also contains data from Russian marine research expeditions. Real time information is available at: <http://www.pacificinfo.ru/near-goos> contains the Near-GOOS

Delayed Mode Data Base for the Bering, Okhotsk and Japan Seas.

See also <http://www.pacificinfo.ru/near-goos/?show=catalogue>

Bio/Chem

Baltic International Trawl Survey participant since 1993. Latest data obtained 2011.

http://datras.ices.dk/Data_products/Submission_Status.aspx

Carbon

RUSALCA, Bering/Chukchi seas, 1/year, with USA.

A1 (AR7W) one-off. A2 one-off 1999. A6 (AR17) one-off 2000. A17, one-off 2003.

A21(SR02) annual, 2004 onward. A53N and A59.30N(A1E) planned and funded respectively.

A21(SRO1) (A17) annual.

Coastal

Coastal observations are carried out at 230 maritime stations: standard meteorological observations plus sea level, waves, ice, water temperature and salinity.

Regular observations of hydrochemical characteristics (oxygen, pH, phosphates and nitrates) and pollution at about 70 monitored areas (about 200 stations) at 10 seas, mainly at the Baltic, Black, Azov, Caspian, White and Japan seas.