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### Summary of operational and planned GOOS participation

<u>Observations</u>	<u>Comments</u>
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
XCTD/XBT/TSG	XBT/XCTD on research cruises only.
ARGO	2 active February 2010. ARGO center established in FERHRI. <a href="http://cliware.meteo.ru/">http://cliware.meteo.ru/</a>
Sea Level	8 GLOSS stations, latest data posted by GLOSS 2007 as of October 2009. Also maintains Mirny station in the Antarctic. See also BOOS below. 2 GPS positioned stations, Tuapse and Petropavlovsk  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. <a href="http://ocean2x.aari.nw.ru/index.php?id=507">http://ocean2x.aari.nw.ru/index.php?id=507</a>
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	75 active and on GTS February 2010, some with GM-6 automatic Systems. Potential 1181 ships. <a href="http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html">http://www.ncdc.noaa.gov/oa/climate/vosclim/vosclim.html</a>
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.  Additionally, ALISA provides ships and other users twice daily meteorological bulletins containing sea ice information for Arctic regions under the SafetyNET program.  AARI is developing a Sea Ice Data Bank as a WMO project and is cooperating with others in collecting all available sea ice data. AARI

Sea Ice archive web: <http://www.aari.nw.ru/gdsidb>

Satellites	<p>SMOS launched November 2, 2009. It is the first satellite designed to map both SST and monitor soil moisture on a global scale, Electro-LN1-2010, SST and Sea Ice. Electro- LN2-2011, SST and Sea Ice Electro-MN1, 2015 N3-2012 Meteorology and Ocean METEOR M-N2 2010 METEOR M-N3 2012</p>
Black Sea	<p>Coastal observations : 5 Hydromet Stations, Met plus T(w), Sal, SL, waves.</p> <p>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</p> <p>Pollution Monitoring – 24 stations at 5 sites. Sal, Dissolved Oxygen, total Alkalinity, pH, Hydrocarbons. Samples obtained every 2 months.</p> <p>Assessment of dynamics and pollution of the coastal waters on the base of regional satellite monitoring and ground data.</p>
BOOS	<p>Coastal observations: 7 Hydromet stations, Met plus T(w), Sal, SL, waves; 2 Met only stations</p> <p>Sea level data from “Gorny Institute”, “Kronshtadt” in automatic mode, 10 minute intervals.</p>
NEAR-GOOS	<p>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: <a href="http://www.pacificinfo.ru/near-goos">http://www.pacificinfo.ru/near-goos</a> contains the Near-GOOS Delayed Mode Data Base for the Bering, Okhotsk and Japan Seas.</p>
Bio/Chem	<p>Baltic International Trawl Survey participant since 1993. 840 hauls obtained. Also a North Sea International Bottom Trawl Survey participant during the 1974–1977 period with 260 hauls obtained. <a href="http://datras.ices.dk/Data_products/Submission_Status.aspx">http://datras.ices.dk/Data_products/Submission_Status.aspx</a></p>
Carbon	<p>RUSALCA, Bering/Chukchi seas, 1/year, with USA. A1 (AR7W), one-off 2002. A2, one-off 1999. A6 (AR17) one-off 2000. A17, one-off, 2003, A21(SR02) annual, 2004- A53N and A59.30N(A1E) planned and funded respectively. A21(SR01) (A17) annual</p>
Coastal	<p>Coastal observations are carried out at 160 maritime stations: wind speed, pressure, air and water temperature, sea level, ice and others, such as, salinity, oxygen, phosphates and nitrates.</p> <p>Pollution observations regularly at 70-75 sites in the Baltic, Black Azov and Caspian seas.</p>