

Finland

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Summary of Operational and Planned Oceanographic Observation Programs

Waves

Four sites: North Baltic Proper, Bothnian Sea, Helsinki and Bay of Bothnia. Operated during open water season. Wavewriders also measure SST. Met buoys also measures air and sea temp, wind and surface current. http://www.itameriportaali.fi/en/itamerinyt/en_GB/aallonkorkeus/

See also WaMOS <http://www.oceanwaves.de/>

Sea Level

13 sites on the Finish coast reporting hourly, most operating since 1920s. Data available in real-time. http://www.itameriportaali.fi/en/itamerinyt/en_GB/vedenkorkeus/



7 GPS positioned stations: Vaasa, Olkiluoto, Degerby, Virolaht, Un of Helsinki, Oulu and Tuorla <http://www.sonel.org/spip.php?page=cgps>

ARGO

4 floats operating 25 January 2012. To see latest status of floats go to: <http://wo.jcommops.org/cgi-bin/WebObjects/Argo.woa/wa/default> and select Monitoring and Countries.

TS Hydrography

Current meter measurements in the strait of Kustaanmiekansalmi. Measures current between 3 and 25meters and temperature at 28m hourly.

Baltic Sea Portal – routine measurements of temperature, salinity and fluorescence

with CTD made in central Gulf of Finland (site LL7,) between Helsinki and Tallinn.
Surface to 90 meters.

Bio/Chemistry

Baltic algal bloom, phosphorus/nitrogen monitoring, 4 ships between: Stockholm-Helsinki: Silja Serenade. Tallinn-Helsinki: Finnjet. Travenmunde-Helsinki: Finnpartner Archipelago Sea: Tellka. http://www.itameriportaali.fi/en/tietoa/algaline_seuranta/en_GB/mittautustulokset/
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SOOP CPR (Zooplankton), Baltic, 5 ships

Ferrybox: Helsinki –Tallinn and Helsinki- Travamunde (Germany). Salinity, SST, fluorescence, nutrients, chlorophyll-a and phytoplankton

SST

http://www.itameriportaali.fi/en/itamerinyt/en_GB/pintalampoennuste/

Salinity

http://www.itameriportaali.fi/en/itamerinyt/en_GB/suolaisuusennuste/

Satellite

EUMETSAT member.

<http://www.eumetsat.int/Home/Main/AboutEUMETSAT/WhoWeAre/MemberandCooperatingStates/index.htm?l=en>

Sea Ice

Detailed surface observations are provided by ice breakers, commercial vessels, ice observers on the coast, ice services of other Nordic countries and aircraft and satellites.

http://www.itameriportaali.fi/en/itamerinyt/en_GB/jautilanne/

Baltic Sea

http://www.itameriportaali.fi/en_GB/