

# Norway

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## Summary of Operational and Planned Oceanographic Observation Programs

### Moorings

8 Fixed (coastal) stations (T and S profiles), 2-3/month Ingoy, Eggum, Skrova, Bud, Sagnesjoen, Ytre Utsira, Indre Utsira, Lista and Torungen <http://data.nodc.no/stasjoner/>  
IMR deployed 5 current meter moorings for measurement of transport of Atlantic water between Norway and Bear Island.

Faroe-Shetland channel upward looking ADCP. Measure water-mass exchanges across UK-Greenland ridge, the Fram Strait and Bear Is-Tromsflaket section.

Barents Sea, OWS M and Iceland-Faroe Ridge

EuroSITES Partner <http://www.eurosites.info/sites.php>

### ARGO

3 active 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

### Sea Level

6 GLOSS stations, all posted by PSMSL through 2010 (Andenes, Honningsvarg, Maloy, Rorvik, Tregde, Vardo). These stations also report in FAST mode. December 2011 data posted at the Hawaii FAST Center. <http://ilikai.soest.hawaii.edu/uhs/c/woce.html>

Operating 22 stations overall, 8 stations are GPS positioned. *See Map Below*

See also <http://www.ioc-sealevelmonitoring.org/index.php> near real-time data

[http://www.gloss-sealevel.org/publications/documents/norway\\_gexi2009.pdf](http://www.gloss-sealevel.org/publications/documents/norway_gexi2009.pdf)

<http://www.sonel.org/spip.php?page=cgps>

<http://www.psmsl.org/data/obtaining/>

### Surface Drifters

None reported as active mid January <http://osmc.noaa.gov/Monitor/OSMC/OSMC.html>

### Time Series

Stavanger-Aberdeen surface layer T and S monitoring weekly.

Skagerrak and Rogaland-Finnmark Fjords: T, S and Oxygen observed each Nov/Dec.

Flodevigen Station T and S, daily at several depths.

Hydrographic, Hydrochemical and Biological parameters observed monthly at two locations off Arendal.

Ocean Weather Station Mike (M). Hourly WX, 6 hourly upper air, hydrographic observations weekly. Barents Seas sections: Norway-Bear Is, 19 stations 6/yr, Vardo-North Section 19 stations 4/yr.

Norwegian Sea sections:

Svinoy section (with moorings, SeaSoar)	3-4/yr
Gimsoy section	2/yr
Bear Island West	2/yr
Sorkapp section	1/yr
North Sea sections:	
Torungen-Hirsthals	11/yr
Hanstholmen-Aberdeen	4/yr
Utsira-Startpoint	4/yr
Feie-Shetland	4/y

### **Bio/Chem**

Nutrients, Chlorophyll and phytoplankton at station “M.” Bio and chem on “Standard transects” and “Regional Monitoring”

North Sea International Bottom Trawl Survey participant since 1971. Latest data posted early 2011.

[http://datras.ices.dk/Data\\_products/Submission\\_Status.aspx](http://datras.ices.dk/Data_products/Submission_Status.aspx)

Algaeinfo – weekly information on phytoplankton along the Norwegian coast.

<http://algeinfo.imr.no/eng/>

### **TS Hydrography**

Latest and next Repeat Hydrographic sections (standard WOCE sampling): 75N, Iceland – Greenland, 2009 and planned 2011.

### **Carbon**

Amsterdam-Bergen. Weekly with Netherlands.

Aalborg –Nuuk Greenland monthly.

OWS-M, continuous since 1992.

75N, Iceland-Greenland

### **VOS**

2 VOS ships reported active mid January 1012.

<http://osmc.noaa.gov/Monitor/OSMC/OSMC.html>

### **Coastal**

SST, Bergen to Kirkenes: M/S Vesteraalen, M/S Lofoten. Temp at 5 min intervals, frequent transects.

Fedje Island Project – HF Radars to monitor surface currents critical to petroleum terminal activity.

FerryBox: Oslo-Hirtshals (Denmark) SST, Salinity, Turbidity, Fluorescence

<http://data.nodc.no/termograf/>



*The Norwegian Tide Gauge Network*