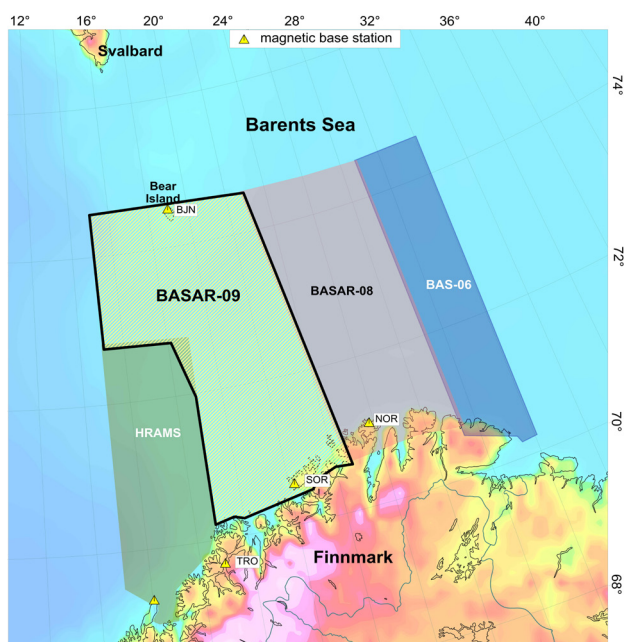


DATA ANNOUNCEMENT

Barents Sea Aeromagnetic Remapping 2009 (BASAR-09)

The Geological Survey of Norway (NGU) has just completed a follow-up on the successful BASAR-08 project. The new high-resolution aeromagnetic survey is located in the western Barents Sea (see map) and comprises an area of approx. 105,000 km² or one third of the Norwegian mainland. The survey covers parts of the Hammerfest and Bjørnøya basins, the Stappen and Loppa highs and part of the Vestbakken Volcanic Province. The profile and line spacing are 2 and 5 km, respectively.



Outline of the aeromagnetic survey BASAR-09 in the western Barents Sea (black polygon).

Contact person:

Odleiv Olesen

Team Leader, Continental Shelf Geophysics

E-mail: odleiv.olesen@ngu.no

Tel: +47 73 90 44 56

NGU

Geological Survey of Norway

NO-7491 Trondheim

Norway

Tel: +47 73 90 40 00/ + 47 99 09 17 43

Fax: +47 73 92 16 20

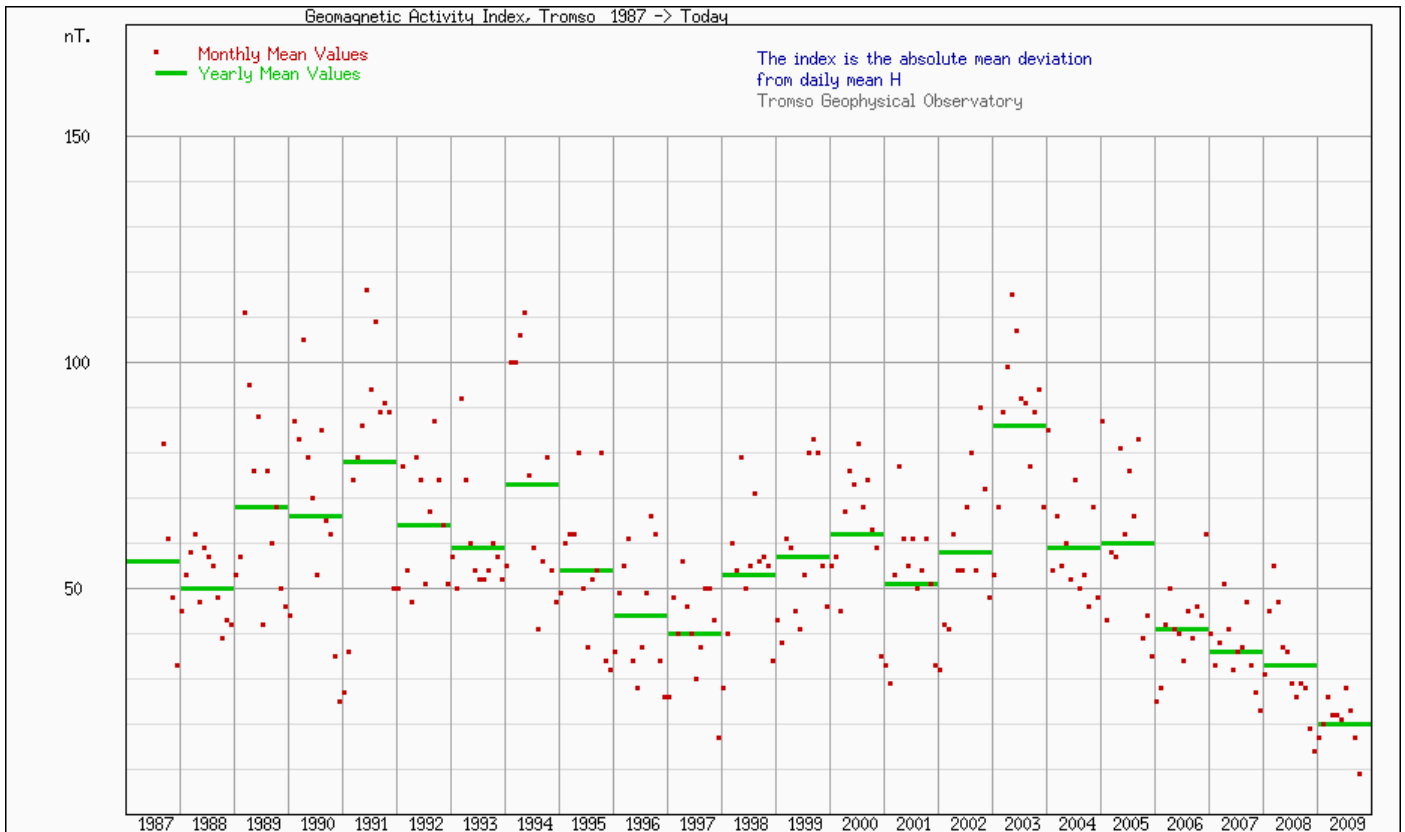
www.ngu.no/continental_shelf_geophysics

NGU has within the frame of the BASAR-09 project compiled the existing NGU surveys in the southwestern Barents Sea and provides a comprehensive and state of the art aeromagnetic grid. High-resolution aeromagnetic surveys are particularly useful for detailed mapping of fault systems, volcanics, igneous bodies, COB, salt diapirs and depth to basement interpretations. This information provides a structural overview and is valuable for further survey planning like seismic, gravity and CSEM data acquisition. The products of the planned two-year project include a basement characterization as well as full 3D crustal and thermal basement models. The BASAR surveys constitute parts of an aeromagnetic remapping program of the Norwegian continental shelf. The magnetic conditions in 2009 have been favourable for aeromagnetic data acquisition

Integrated interpretation of seismic and potential field data produces a synergy that has been proven wherever these data sets overlap. The proximity of the Norwegian mainland provides an interesting setting for onshore-offshore investigation. The BASAR surveys show that a combined effort of aeromagnetic mapping of the Barents Sea area with participation from NPD and the petroleum industry contributes to improving our geological knowledge of the region.

ORDERING:

Price: 2.25 million NOK



Magnetic disturbances recorded by the Tromsø Geophysical Observatory (<http://flux.phys.uit.no/Actlx/>) in Tromsø during the time period 1987-2009. The activity is presently at a minimum which is expected to prevail for another year. The conditions are therefore ideal for aeromagnetic data acquisition at high latitudes (within the auroral belt).

Deliverables

Maps

- Aeromagnetic total field data-sets
- Depth to magnetic sources
- Free air, Bouguer and isostatic gravity maps
- Filtered magnetic and gravity maps
- Combined interpretation maps
- Gravity and magnetic modelling along key transects
- Combined interpretation with seismic data
- 3D crustal model
- 3D thermal model
- Geodynamic and tectonic interpretations

Reports

- Processing report
- Interpretation report
- Geodynamic and tectonic interpretations

TECHNICAL SPECIFICATIONS

Line/tie-line spacing:	2 km / 5 km
Sensor elevation:	approx. 230 m
Area coverage:	105,000 km ²
Total flying distance:	75,000 km
Aeroplane:	Piper Chieftain
Magnetometer:	Scintrex Cesium Vapour
Noise envelope:	±0.1 nT
Sensor:	CS-3 mounted in towed bird
Navigation:	Real time differential GPS
Navigation accuracy:	< 5 m
Base of operation:	Tromsø and Alta
Base magnetometers:	Bjørnøya, Nordkapp, Sørøya and Tromsø