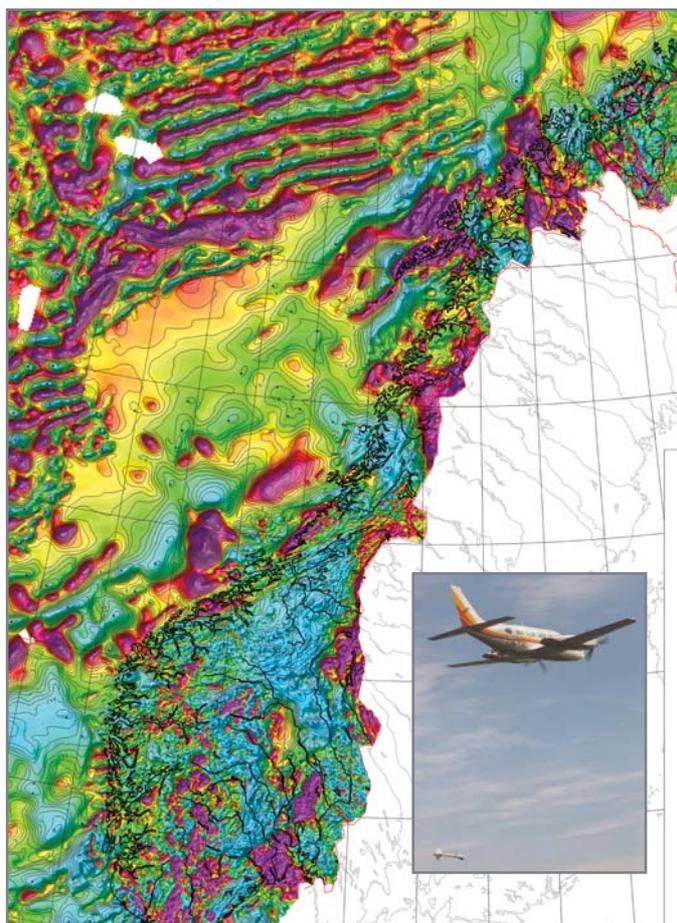


Aeromagnetic data



NGU has launched an aeromagnetic remapping programme of the continental shelf with funding from the petroleum industry. The programme started in 1989 and is using a line spacing of 2 km (see index map on the next page). Other contractors are also acquiring aeromagnetic data on the Norwegian continental shelf. The high quality of aeromagnetic data acquired by NGU in recent years provides the possibility to interpret several sets of high frequency anomalies caused by magnetic sources within the sedimentary sequences.

The whole of Norway (with the largest continental shelf in Europe) was covered with aeromagnetic surveys from 1959 to 1976. Aeromagnetic data collected prior to 1976 are available in the form of a matrix digitised from manually drawn contour maps. Data after 1972 were also recorded digitally.

The location map on the next page shows flight altitude and line spacing for the original measurements on the mainland of Norway. The areas with low flight altitude (150m-300m) were covered between 1959 and 1968 using a fluxgate magnetometer. From 1968 to 1976, a stinger-mounted proton magnetometer was used, covering western Norway and most of North Norway with measurements made at flight altitudes ranging from 800m to 1500m a.s.l. The cell size of the grid is 500m x 500m. The magnetic total field is reduced to anomaly values by using the Definite Geomagnetic Reference Field 1965.0 (DGRF 1965.0).

The combined data-set from the mainland and the shelf area reveal that the bedrock structures are continuous from the Baltic Shield under the Caledonian orogen into the continental shelf. These potential field data, combined with modern modelling software and image processing techniques, provide important constraints on the interpretation of the regional basement configuration and distribution of volcanics on the shelf.

Contact person:

Odleiv Olesen

E-mail: odleiv.olesen@ngu.no

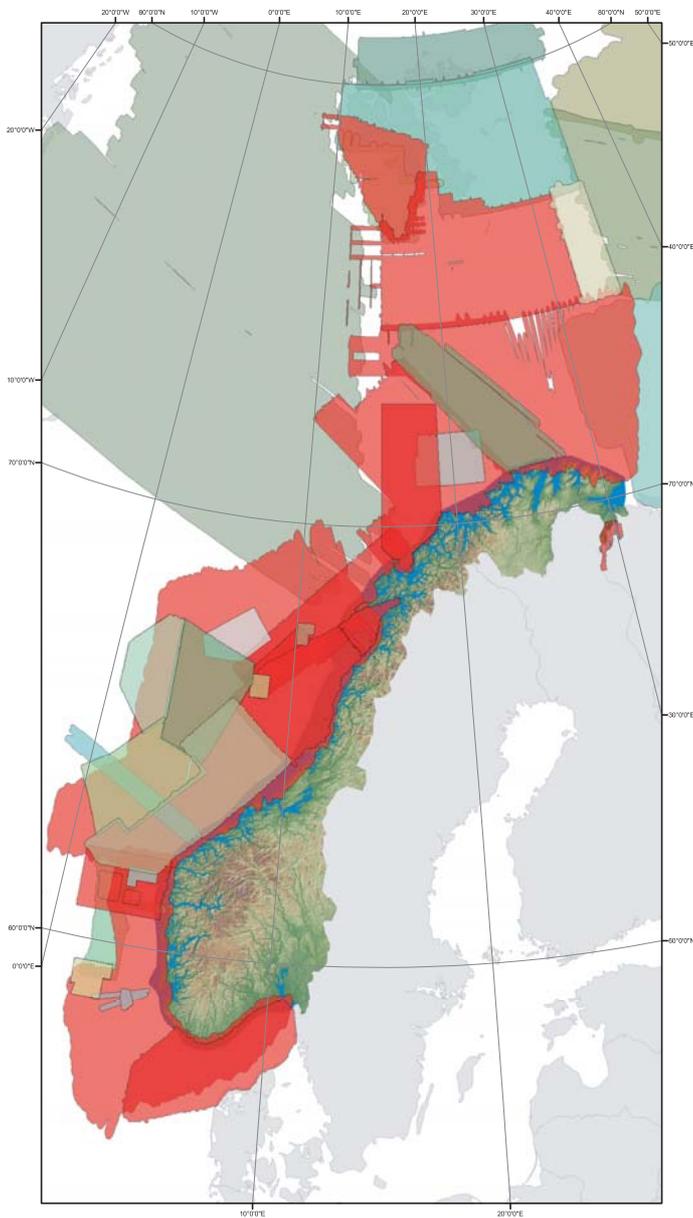
Mark Smethurst

E-mail: mark.smethurst@ngu.no

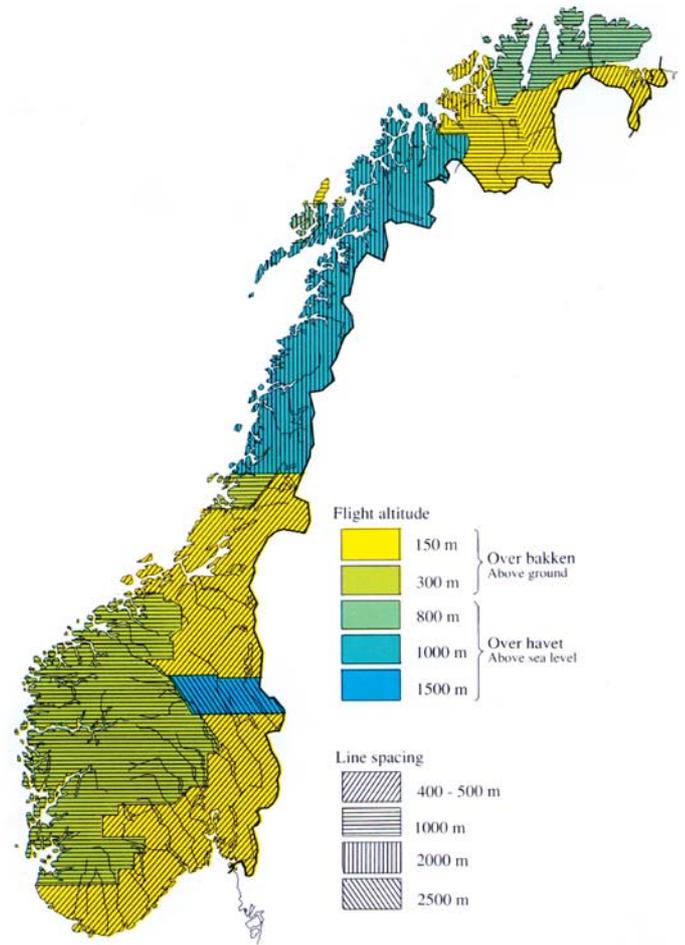
Tel.: 73 90 40 00

Fax: 73 90 44 94

Geological Survey of Norway
 NO-7491 Trondheim
 Norway
 Tlf.: +47 73 90 40 00
 Fax.: + 47 73 92 16 20
www.ngu.no



Aeromagnetic surveys offshore Norway. Red colours denote NGU surveys.



Fixed-wing surveys, mainland Norway.

Digital geophysical data sets	Price
1. Aeromagnetic data, Norway 500mx500m grid,	NOK 10.000
2. Aeromagnetic data, Norway and adjacent sea areas (North Sea, Norwegian Sea and southern Barents Sea) 1kmx1km grid,	" 50.000
3. Aeromagnetic data, northern Norway 500m*500m grid,	" 6.000
4. Aeromagnetic data, southern Norway 500m*500m grid,	" 6.000
5. Aeromagnetic profile data, southern Barents Sea, 55,000 km	" 240.000
6. Aeromagnetic profile data, Mid Norwegian shelf, 68,000 km	" 370.000
7. Aeromagnetic profile data, Norwegian North Sea, 43,000 km	" 280.000
Academic institutions may acquire the data at a reduced price.	
Aeromagnetic profile data from the northern Barents Sea (BSA-87), Svalbard (SPA-88), Nordland (LAS-89 and NAS94), and the Norwegian-Danish Basin (SAS-96) are available on request.	
Aeromagnetic maps at scales varying from 1:250,000 to 1:3 mill. are available.	



The Geological Survey of Norway's DRAGON project provides direct access to geophysical data, interactive map databases, digital maps and other geophysics products at web address WWW.NGU.NO/DRAGON.