

DATA ANNOUNCEMENT 2007

Norway Basin (NB-07)



NGU has carried out a new acquisition in the Norway Basin to complete the last JAS-05 aeromagnetic survey. The Norway Basin is still poorly constrained by modern magnetic data and its interpretation remains speculative and controversial. Better mapping of the Norway Basin required a new survey to the east of the Aegir Ridge survey (NB-90) acquired by the U.S. Naval Research Laboratory in 1990 (Fig. 1).

This survey allows us to refine the tectonic and magmatic evolution of the Norway Basin and adjacent margins. The main faults, structure and magnetic anomalies can be

reinterpreted using a systematic comparison between bathymetry, gravity, magnetic patterns and available seismic data.

ORDERING:

Price for late participants:

1.08 million NOK

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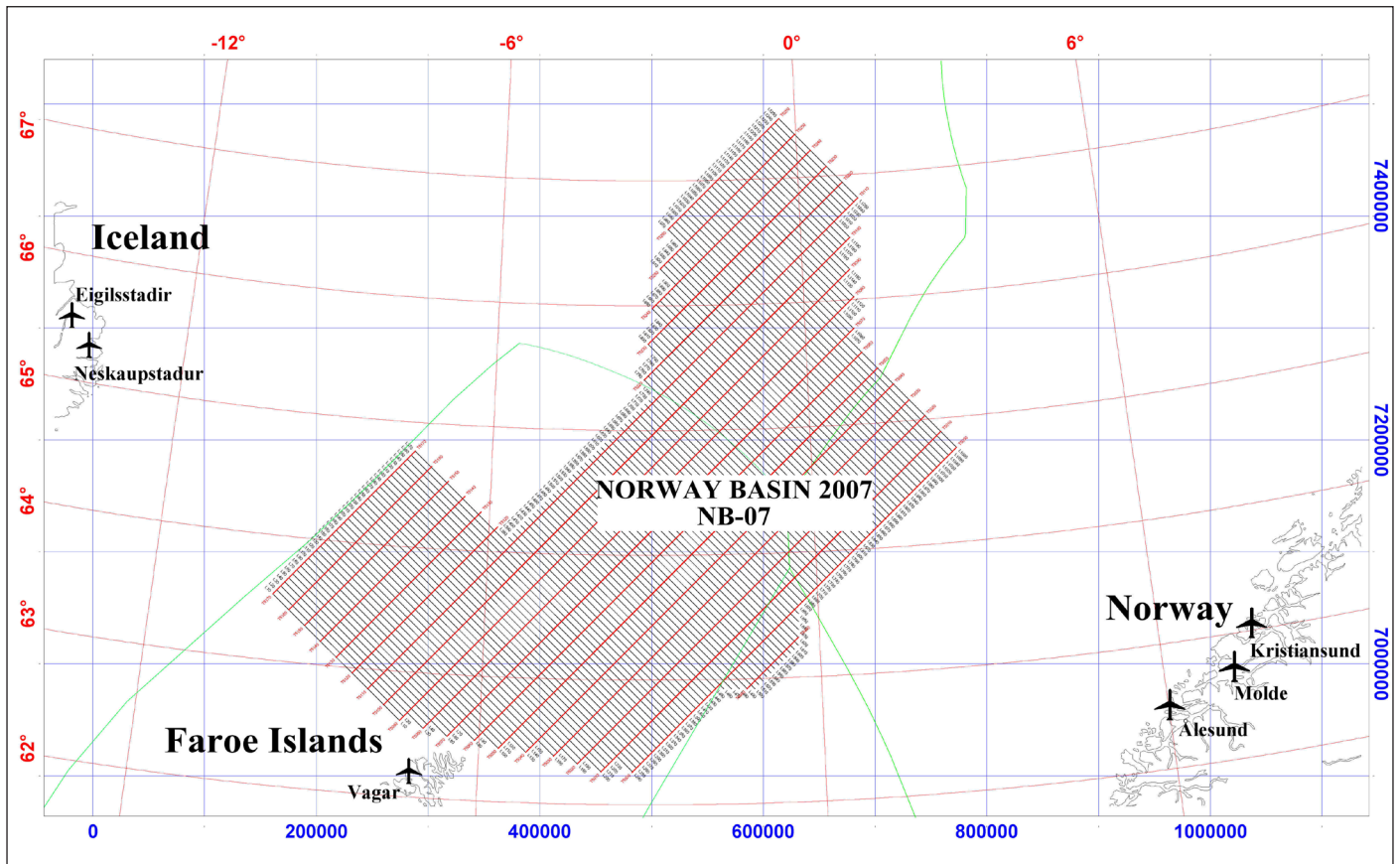
The main goals were:

- **To constrain the location of the continent-ocean boundary**
- **To map more precisely the magnetic spreading anomalies**
- **To test the validity of assumed structural and magmatic features**
- **To provide an updated tectonic model for the Norway Basin, Møre margin and the Jan Mayen Ridge**

Cost

NGU possesses a cost-efficient, high-quality aeromagnetic acquisition system. The survey is organised as a multi-client project with a fixed price for each early participant.

Maps and digital data will be distributed to the sponsors as soon as they are produced in September. A summary report, including an interpretation of the whole area, will be prepared during December 2007.



Outline of the proposed aeromagnetic survey NB-07 across the eastern part of the Norway Basin. The NB-07 survey fills the gap between the Aegir Ridge, the outer Vøring Basin and the Møre Marginal High.

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
- Geodynamic and tectonic interpretation

Reports

- Processing report
- Interpretation report

TECHNICAL SPECIFICATIONS

Line/tie-line spacing:	5/20 km
Sensor elevation:	230 m
Area coverage:	~155,000 km ²
Total flying distance:	~38,500 km
Aeroplane:	Piper Chieftain
Magnetometer:	Scintrex Cesium Vapour MEP410
Noise envelope:	±0.1nT
Sensor:	CS-3 mounted in towed bird
Navigation:	Real time differential GPS
Navigation accuracy:	< 3 m
Base of operation:	Ålesund and Torshavn
Base magnetometer:	Scintrex Envi-mag