



GEOLOGICAL SURVEY OF NORWAY

HELICOPTER BORNE GEOPHYSICS

PRESENT GEOPHYSICAL EQUIPMENT USED FROM HELICOPTER.

- Magnetic:** Scintrex Cesium-magnetometer.
- Cs-2 sensor, Sensitivity 0.001 nT.
 - Scintrex ENVI-mag base-station.
- Electromagnetic:** Geotech Hummingbird, 5 frequencies.
Coil separation 6.0 metres, noise level 1–2 ppm.
- Coplanar 880 Hz
 - Coplanar 6606 Hz
 - Coplanar 34133 Hz
 - Coaxial 980 Hz
 - Coaxial 7001 Hz
- Radiometric:** Exploranium GR 820.
- Crystal volume, 16 litres down looking
4 litres upward looking
 - Spectrometer, 256 channels
- Navigation:** GPS fixed to helicopter
- Accuracy: (+/- 5 m)
- Altimeter:** Radar altimeter permanent in helicopter.
- Accuracy: 5% of measured height.
- Datalogger:** Integrated part of Geotech EM-system.
- Processing software:** Geosoft OASIS Montaj