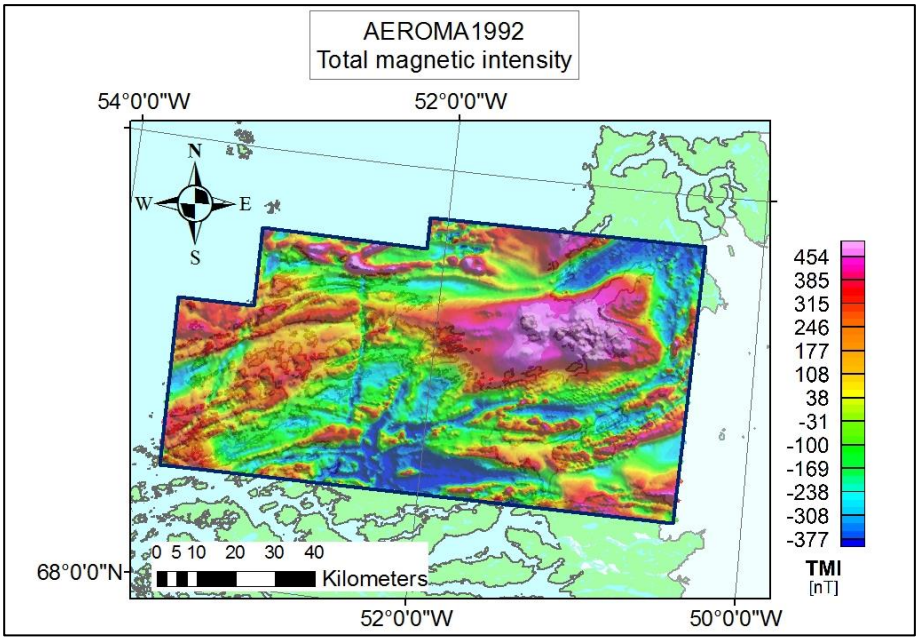
Aeromag 1992

Description of an aeromagnetic survey in Greenland 1992

The Aeromag 1992 project covered Lersletten area (size: 8610 km²) in central West Greenland, just south of the southern edge of Disko Bay and the small village Ikamiut. Data were acquired and processed by Geoterrex Ltd. and financed by the government of Greenland with a contribution from Nunaoil A/S. The regular survey lines are oriented north-south with kilometer spacing and perpendicular tie-lines with 10 kilometers spacing.

The area is situated within the Nagssugtoqidian mobile belt of the Precambrian Laurentian shield. The rocks of the Nagssugtoqidian belt consist mainly of Archaean basement, gneisses and supracrustal sequences, which have been reworked during Proterozoic time. Volcanic and plutonic rocks of Proterozoic juvenile origin, as well as Proterozoic supracrustal metasediments are also described. The tectonic structure of the Nagssugtoqidian is characterised by strong ENE linear trends, at places developed into steep belts with very strong shearing and sinistral displacement.

Several massive to semi-massive sulphide horizons in supracrustal sequences are identified and have been classified as sedimentary stratiform deposits.



Total magnetic intensity map from the Aeromag 1992 survey in the Lersletten area, central West Greenland.

Data compilations can be directly downloaded from Greenland Portal by entering ”Geophysics – individual surveys” and selecting this survey . To order hardcopies of map sheets, please contact Geus by email bhm@geus.dk.

Selected references:

- Schacht, B. 1992: Report of a high resolution aeromagnetic survey over the Lersletten area of central West Greenland for the Geological Survey of Greenland. Geoterrex Ltd. November 1992. Unpublished report available from GEUS, 18 pp., 3 app. and 16 maps.
- Thorning, L. 1993: Project AEROMAG-92: a new high resolution aeromagnetic survey of the Lersletten area, central West Greenland (68°15' to 68°55', 50°25' to 53°35'W). The Geological Survey of Greenland Report **122** , 36 pp.