



The Aeromagnetic Survey of the North Polar Region in 2009

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As part of its "LOMGRAV 09 Geophysical Survey", DTU Space and National Resources Canada made in spring 2009 a survey of the region between North of Greenland and the North pole. The survey was done using a DC-3 airplane equipped with gravimeter and, in addition, a scalar magnetometer (Geometrics G-283 cesium magnetometer) operating at 10 Hz sampling rate at the tip of a 5 m long tail boom. In total 54.000 profile km at an altitude of 600 m were flown, covering a region of 550.000 km².

The survey area is within the polar cap region, and geomagnetic data from the observatory Qaanaaq (THL) and the variometer station Station Nord (NRD) in Greenland are available for temporal reduction of the aeromagnetic observations.

Here we present the survey and a preliminary analysis of the data.