

## GEOMAGNETIC DATA MANAGEMENT AT THE NGDC

J. Mabie 1, W. Denig 2, S. McLean 3

1. National Geophysical Data Center, Boulder, CO, USA

email: [justin.mabie@noaa.gov](mailto:justin.mabie@noaa.gov)

The National Geophysical Data Center (NGDC) and the co-located World Data Centers for Solar Terrestrial Physics (STP, Boulder) and Geophysics and Marine Geology (GMG) steward the data and information describing the geomagnetic environment from the surface of the sun to the core of the Earth. We accomplish this task through the interactions with geomagnetic data providers contributing magnetic observatory, variation, repeat station, airborne, ship track, and satellite data. In turn, these data are made available, as permitted, to magnetic field modelers for navigation charting and to the scientific research community. The WDC on-line archives include the annual, daily and hourly magnetic averages (means) from numerous geomagnetic stations covering a period from 1813 to the present, historical survey reports, and thousands of marine and airborne trackline surveys. Additional geomagnetic means are contained in data books stored in our climate controlled library which have not yet been converted to digital form. We provide an overview of the NGDC geomagnetic data holdings plus discuss various ongoing activities within the WDCs to facilitate user access to the data and to encourage the use of descriptive metadata by the data providers.

magnetometer data