



# National Geophysical Data Center (NGDC)

FY 2005 Enacted	FY 2006 Enacted	FY 2007 Request
\$5.449 million	\$4.918 million	\$5.572 million

**What is the National Geophysical Data Center (NGDC)?** NGDC is the steward of the Nation's geophysical data, maintaining the world's largest collection of seafloor and space environment data, geophysical observations such as geomagnetism. It is also the sole archive of data from the Department of Defense's Defense Meteorological Satellite Program (DMSP).

**Why is this Center needed?** Scientists and policy makers require access to high quality geophysical and space environment data to improve our understanding of the Earth and near-Earth environment, the impact of solar-terrestrial processes on U.S. lives and property, and the state of the Nation's environmental, national, homeland, and economic security. NGDC is the data archive of NOAA's Space Weather and Marine Transportation Systems programs and is the archive for worldwide tsunami data. NGDC currently services 3.2 million requests per year and this number is expected to more than double by the year 2011.

**How does this Center work?** NGDC builds and maintains long-term archives of scientific data, with a special emphasis on scientific stewardship of data acquired by NOAA observing systems. NGDC is a critical part of the Nation's scientific infrastructure and at the same time provides public domain data to commercial, military, and public users. NGDC works closely with contributors of scientific data to prepare documented, reliable data sets. Currently there are more than 300 digital and analog databases. NGDC's archive is currently 115 terabytes and will grow to over 1,000 terabytes by the year 2012. Select products developed from NGDC data archives include: Global Bathymetry/Topography, U.S. Coastal Relief Model, Cosmic Rays and Auroras, Geodetic (global positioning system/Continuously Operating Reference Stations), Geomagnetism, Gravity, Ionosphere, Marine Geology, Marine Seismic Reflection Data, NOS Hydrographic Survey Data, Ocean Drilling, Solar Activity, Tsunamis, Volcanic Hazards, and the World Magnetic Model.

NGDC continually develops advanced data management techniques that reflect the changing world of geophysics. Using the latest computing and Internet technology, NGDC will continue to develop new systems to provide easy access to digital data and products and develop an innovative decision support system. This will improve our ability to predict the impact of environmental factors on the economic health of the Nation. Innovative technology will transform the world's largest collection of seafloor data into an integrated marine database, develop the first global database describing the long-term climate of the space environment, and provide the World Magnetic Model to the U.S. Department of Defense and the North Atlantic Treaty Organization (NATO).

**Who are the Center's Partners and Customers?** NGDC works closely with Federal and state governments, industry, academia, and foreign contributors to build the data resources required to monitor, understand, and predict the environment. NGDC data and products support industry, education, and public requirements for environmental information.

**How is this Center Financed?** The FY 2007 Budget requests **\$38.017 million** for Archive Access and Assessment core activities. Of that amount, **\$5.572 million** will support NGDC activities.

**For additional information:** [www.ngdc.noaa.gov](http://www.ngdc.noaa.gov) and [www.nesdis.noaa.gov](http://www.nesdis.noaa.gov)

