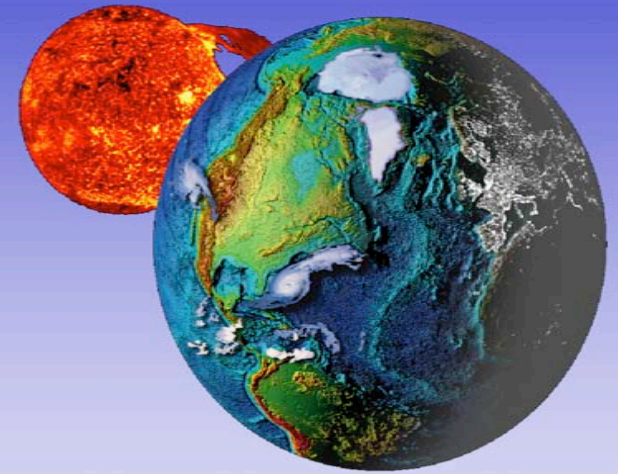


U.S. Department of Commerce
 National Oceanic and Atmospheric Administration
 National Environmental Satellite, Data & Information Service
 National Geophysical Data Center



David Skaggs Research Center -- Boulder, Colorado, USA



NOAA's National Geophysical Data Center provides scientific data stewardship and a wide range of products and services to address the Nation's environmental challenges.

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National Geophysical Data Center



NOAA Satellites and Information
<http://www.nesdis.noaa.gov/>



NGDC Programs

The NGDC Story

The National Geophysical Data Center (NGDC), located in Boulder, Colorado, is one of three national environmental data centers within the National Environmental Satellite, Data and Information Service (NESDIS). NGDC and NESDIS are part of the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce (DOC).

NGDC acquires, processes, archives, analyzes, and disseminates high quality data that monitor and describe the land, marine, near-Earth, space, and solar environment. NGDC promotes international cooperation in the exchange of environmental data through membership and participation in the World Data Center system. NGDC strives to be the preeminent steward of the Nation's geophysical and environmental data, and to transform these data into effective information which will aid in securing a sustainable, flourishing future for our nation and world.

The Center works closely with other government agencies, 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.

Brochures are available for these topics:

Bathymetric/Topographic Data - Global bathymetry and topography are two of the most extensively used types of scientific data for a wide variety of scientific, practical, and artistic applications. Gridded data is one of several forms of these data available at NGDC and ranges from 3 arc-seconds to 5 arc-minute spacing. Data in the form of soundings from bathymetric (including multibeam) sonars also are available.

<http://www.ngdc.noaa.gov/mgg/bathymetry/>

Defense Meteorological Satellite Program (DMSP) - NGDC maintains the DMSP data archive. Data are available from all DMSP sensors as well as products such as the Nighttime Lights of the World and daily global mosaics of DMSP Operational Linescan System (OLS) data. NGDC also produces custom products from DMSP data including fire images and gas flare images.

<http://dmsp.ngdc.noaa.gov/>

Ecosystems Information - NGDC provides data, products, and ecological modeling services pertaining to global and regional environmental systems. These data and services are critical for understanding and managing coastal and marine ecosystems.

<http://www.ngdc.noaa.gov/seg/eco/>

Geomagnetic and Gravity Data - The NGDC archive includes station, trackline, grid, and satellite geomagnetic and gravity data, including magnetic declination from 1750 to the present. These data are used for navigation, orientation, resource exploration, and modeling of the Earth's environment.

<http://www.ngdc.noaa.gov/seg/potfld/>

Marine Geology Data - NGDC provides data for over 100,000 cores, grabs, dredges, and drill samples covering most of the world's coastal and open ocean areas. Examples of data available include faunal counts, geochemistry, trace metals, mineralogy, petrology, physical properties of sediment, visual descriptions, photographs, paleomagnetism, sediment thickness, and downhole logging data.

<http://www.ngdc.noaa.gov/mgg/geology/>

Marine Geophysical Data - This archive contains marine and airborne geophysical data with GEODAS's Marine Trackline Geophysics database including bathymetric, magnetic, gravity, and shot-point navigation data. Other geophysical data include seismic profiles, sediment thicknesses, and coastlines for the world.

<http://www.ngdc.noaa.gov/mgg/>

Natural Hazards Data - Digital data, products, and services, including photographs related to past earthquakes, tsunamis, and volcanoes are available. These data can be used to establish the past record of natural hazard event occurrences and are important for planning, response, and mitigation of future events.

<http://www.ngdc.noaa.gov/seg/hazard/>

Snow and Ice Data - The National Snow and Ice Data Center (NSIDC) through a cooperative agreement between the University of Colorado and NGDC, archives and distributes databases of snow cover, avalanches, glaciers, ice sheets, freshwater ice, sea ice, ground ice, permafrost, atmospheric ice, paleoglaciology, and ice cores.

<http://nsidc.org/noaa/>

Space Weather Data - GOES, POES, and DMSP satellite databases archived at NGDC include solar x-rays, magnetic fields, electrically-charged particles, ionospheric characteristics, and auroral particles and imagery. Ground-based data include solar variability, solar imagery, cosmic rays, geomagnetic variations and ionospheric measurements from worldwide stations. The Space Physics Interactive Data Resource (SPIDR) online tool allows users to study the solar events and their terrestrial effects. Total solar irradiance and solar spectral irradiance data are used as input to physical models of the Earth's climate.

<http://www.ngdc.noaa.gov/stp/>

