

Coastal Relief Model

(3-arc-second)

The Coastal Relief Model is a 3-arc-second, latitude-longitude grid of elevations and depths, onshore and offshore, for United States coastal regions. This model is a foundation for GIS applications, upon which overlays of rivers, infrastructure, and other geographic information can be applied. The National Geophysical Data Center (NGDC) provides these coastal-zone, digital, terrain models, integrating the best, available onshore and offshore data. CD-ROM volumes 1-8 cover the U.S. East Coast, Gulf Coast, and West Coast. Under development are Hawaii and Puerto Rico, which will be followed by Alaska. The 3-arc-second data are offered with the National Ocean Service's Medium-Resolution Digital Vector Shoreline Database for the conterminous U.S.

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

TerrainBase

(5-arc-minute)

The TerrainBase CD-ROM contains a 5-minute global land/ocean elevation model. Twenty-six regional and worldwide terrain models were used to compile the 5-minute model and are also included on the CD. The models consist of unprojected and gridded data. The grid interval varies from model to model and ranges from 30-arc-seconds (highest detail) to 10-arc-minutes (lowest detail).

ftp://ftp.ngdc.noaa.gov/Solid_Earth/cdroms/TerrainBase_94

ETOPO2

(2-arc-minute)

ETOPO2 is a full, global Digital Elevation Model gridded at 2-arc-minutes of latitude and longitude, available on CD-ROM. The seafloor data north of 64°N are from the International Bathymetric Chart of the Arctic Ocean (IBCAO). Data between latitudes 64°N and 72°S are from the measured and estimated seafloor topography by Smith and Sandwell. Data south of 72°S are from the US Naval Oceanographic Office's Digital Bathymetric Data Base Variable Resolution (DBDBV version 4.1). Land topography is from the GLOBE Project described below.

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

GLOBE

(30-arc-second)

The *Global Land One-km Base Elevation* (GLOBE) CD-ROM contains the most thoroughly designed, reviewed, and documented global digital elevation model (DEM) to date at a latitude-longitude grid-spacing of 30-arc-seconds (30"). Six gridded DEMs, and five cartographic sources, were adapted for use in GLOBE. The CD includes files that identify the source of each 30" grid cell. GLOBE was developed by an international group of specialists, cooperating with the Committee on Earth Observation Satellites (CEOS). It is part of Focus 1 of the International Geosphere-Biosphere Programme-Data and Information System (IGBP-DIS).

<http://www.ngdc.noaa.gov/seg/topo/globe.shtml>

Multibeam Bathymetric Data

Worldwide collections of multibeam bathymetric data have been received and archived at NGDC in a variety of formats, searchable with GEODAS's Marine Trackline Geophysics database. Data were initially distributed on CD-ROM, but with the increase in data rates from new sonar systems, development of the data on DVD products is now underway. In addition, interactive charting systems are under development to allow online access to data.

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

Hydrographic Survey Data

NGDC's Hydrographic Survey Database System contains area survey data from the National Ocean Service. The database contains data digitized from smooth sheets of hydrographic surveys completed prior to 1965, and from survey data acquired digitally on the National Ocean Service survey vessels since 1965. Over 70 million soundings from over 6000 surveys are now distributed via CD-ROM. These data originally collected against nautical charting standards are now available for scientific, non-navigational uses.

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

Great Lakes Bathymetry

NGDC is compiling new bathymetry for the Great Lakes cooperatively with NOAA's Great Lakes Environmental Research Laboratory and the Canadian Hydrographic Service. This new bathymetry provides a more detailed portrayal of lake floor topography, revealing some lake floor features for the first time. Contours of bathymetry, with the contour interval varying by lake, are the primary product of this effort. Also available are 3-arc-second grids derived from the contours. These grids will eventually become part of the Coastal Relief Model. The data are available on CD-ROM as either vector contours or as grids for lakes Michigan, Erie, and Ontario. Work is underway to produce similar products for lakes Huron and Superior. Full color posters of the bathymetry with geomorphologic interpretations and data coverage maps are available for the completed lakes.

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

The background image on the title page of this pamphlet is a color relief image of Lake Michigan with contours.

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National Environmental Satellite, Data & Information Service
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NGDC and Online Store products:

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

Bathymetry/Topography ordering information:

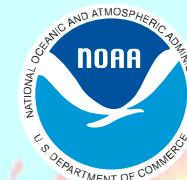
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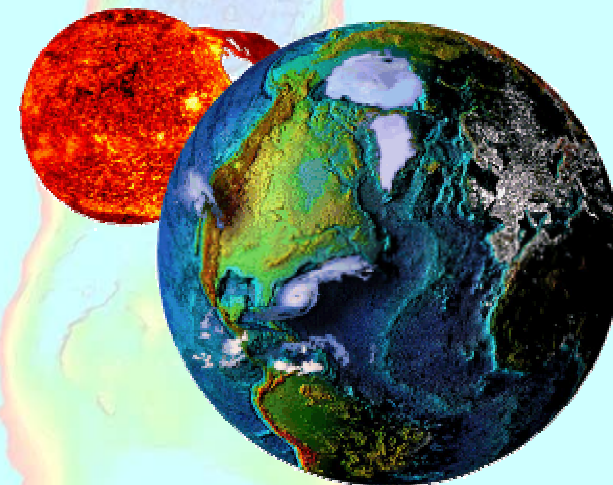
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<http://www.ngdc.noaa.gov/mgg/bathymetry/>

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



Bathymetric/ Topographic Data



available from the
**National Geophysical
Data Center**

