

Digital Elevation Model

Raster Dataset



Tags

DEM, Digital Elevation Model

Summary

This layer is a digital elevation model for the United States.

Description

The digital elevation model (DEM) is from the United States Geological Survey (USGS). A 10m DEM for the contiguous United States was mosaicked together. The raster was then resampled using bilinear interpolation to get 250m cell sizes. The elevation values represent meters.

Credits

United States Geological Survey

Use limitations

There are no access and use limitations for this item.

Extent

West -116.037800 East -63.818733
North 50.920155 South 22.910364

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE elevation, environment

* CONTENT TYPE Downloadable Data

Hide Topics and Keywords ▲

Citation ►

TITLE Digital Elevation Model
CREATION DATE 2011-11-01 00:00:00
PUBLICATION DATE 2009-01-01 00:00:00

PRESENTATION FORMATS *digital map

Hide Citation ▲

Citation Contacts ►

RESPONSIBLE PARTY

INDIVIDUAL'S NAME Andrew Orr
ORGANIZATION'S NAME Argonne National Laboratory
CONTACT'S POSITION GIS Analyst
CONTACT'S ROLE processor

CONTACT INFORMATION ►

PHONE
VOICE 630-252-6286

ADDRESS

TYPE physical
DELIVERY POINT 9700 S. Cass Ave.
CITY Darien
ADMINISTRATIVE AREA IL
POSTAL CODE 60439
E-MAIL ADDRESS aorr@anl.gov

Hide Contact information ▲

Hide Citation Contacts ▲

Resource Details ▼

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
*WEST LONGITUDE -116.037800
*EAST LONGITUDE -63.818733
*NORTH LATITUDE 50.920155
*SOUTH LATITUDE 22.910364
*EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

*WEST LONGITUDE -12917268.808913
*EAST LONGITUDE -7104268.808913
*SOUTH LATITUDE 2621182.265317
*NORTH LATITUDE 6607182.265317
*EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

Resource Points of Contact ►

POINT OF CONTACT

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Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
* PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
* COORDINATE REFERENCE DETAILS
PROJECTED COORDINATE SYSTEM
WELL-KNOWN IDENTIFIER 102100
X ORIGIN -20037700
Y ORIGIN -30241100
XY SCALE 148923141.92838538
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 3857
WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

* VALUE 3857
* CODESPACE EPSG
* VERSION 8.2.6

Hide Spatial Reference ▲

Spatial Data Properties ►

GEORECTIFIED GRID ►

* NUMBER OF DIMENSIONS 2

AXIS DIMENSIONS PROPERTIES

DIMENSION TYPE column (x-axis)

* DIMENSION SIZE 23252

* RESOLUTION 250.000000 Meter

AXIS DIMENSIONS PROPERTIES

DIMENSION TYPE row (y-axis)

* DIMENSION SIZE 15944

* RESOLUTION 250.000000 Meter

* CELL GEOMETRY area

* POINT IN PIXEL center

* TRANSFORMATION PARAMETERS ARE AVAILABLE Yes

* CHECK POINTS ARE AVAILABLE No

CORNER POINTS

* POINT -12917268.808913 2621182.265317

* POINT -12917268.808913 6607182.265317

* POINT -7104268.808913 6607182.265317

* POINT -7104268.808913 2621182.265317

* CENTER POINT -10010768.808913 4614182.265317

Hide Georectified Grid ▲

ARCGIS RASTER PROPERTIES ►

GENERAL INFORMATION

* PIXEL DEPTH 32

* COMPRESSION TYPE None

* NUMBER OF BANDS 1

* RASTER FORMAT TIFF

* SOURCE TYPE continuous

* PIXEL TYPE floating point

* NO DATA VALUE -3.4028231e+038

* HAS COLORMAP No

* HAS PYRAMIDS Yes

Hide ArcGIS Raster Properties ▲

Hide Spatial Data Properties ▲

Spatial Data Content ►

IMAGE DESCRIPTION

* TYPE OF INFORMATION image

BAND INFORMATION

* DESCRIPTION Band_1

* MAXIMUM VALUE 4344.975098

* MINIMUM VALUE -32.430130
* NUMBER OF BITS PER VALUE 32

[Hide Spatial Data Content ▲](#)

Lineage ►

PROCESS STEP ►

WHEN THE PROCESS OCCURRED 2011-09-01 00:00:00

DESCRIPTION

The segments of 10m DEMs were mosaicked together at Argonne National Laboratory.
The single, mosaicked DEM was then resampled to a 250m DEM with bilinear interpolation.

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTION FORMAT

* NAME Raster Dataset

[Hide Distribution ▲](#)

Metadata Details ►

* METADATA LANGUAGE English (UNITED STATES)
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2015-03-24

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2015-03-24 08:54:14
LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-03-24 10:11:39

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2015-03-24 10:11:39

[Hide Metadata Details ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG