

Mapping, Remote Sensing, and Geospatial Data

How can I download 3D Elevation Program (3DEP) standard DEM data in bulk?



1. To request bulk elevation data, please email tnminfo@usgs.gov and provide the following:

- Your contact information (address, phone number, and email address).
- Product(s) you are requesting.
- Requested data format(s).

2. An email will be sent to you containing the following information:

- Job ID Number.
- Size estimates for requested data.
- External drive minimum specifications.
- Shipping address.

3. Once you receive the email, you will then ship the following to USGS:

- Correct number of external hard drives based on the estimated size of the data requested (specifications for hard drives are listed below).
- A copy of all correspondence emails – please highlight the **Job ID Number**.
- Return shipping address and phone number.
- Return shipping account number (FedEx only) or **pre-paid** return shipping labels (UPS or FedEx only). Sorry, we cannot ship via USPS.

Specifications for external hard drives:

- USB 2.0 compatible and higher.
- PC compatible.
- Capacity – large enough for estimated data, usually 30 to 40 gigabytes (GB) for system use. For example, a 300 GB external hard drive holds 277 GB of actual data; 500 GB hard drives hold 460 GB; 1 Terabyte (TB) hard drives hold 930 GB; 1.5 TB hard drives hold 1386 GB; 2 TB hard drives hold 1860 GB; 3 TB hard drives hold 2790 GB; and 4 TB hard drives hold 3725 GB.
- Accepted capacity range of 8 GB to 8 Terabytes.
- Cache Buffer – 8 megabytes or higher.
- Spin Rate – 7200 RPM (can be less but this is preferred).
- Drives are reformatted to NTFS; any existing data already on the external hard drive will be lost.

Please note:

- We cannot process your request unless we have the correct number of drive(s); a listed Job ID Number; and return shipping account or pre-paid shipping labels.
- Data will be written to hard drives in a compressed (.zip) format.
- Turn-around time will depend on our current workload when an order is placed, but in most cases you will receive the data in 1 – 2 weeks.

DEM Bulk Data Download

3DEP DEM Dataset Resolution	Minimum Delivery Package	Projection	Data Format	Size Estimates in Gigabytes (zipped)
2 Arc-Second (Alaska Only)	Complete Dataset (1x1 Degree Tiles)	Geographic	ArcGrid GridFloat IMG	5 5 5
1 Arc-Second	Complete Dataset (1x1 Degree Tiles)	Geographic	ArcGrid GridFloat IMG	99 100 94
1/3 Arc-Second	Complete Dataset (1x1 Degree Tiles)	Geographic	ArcGrid GridFloat IMG	440 451 417
1/9 Arc-Second (where available)	Complete Dataset (15x15 Degree Tiles)	Geographic	IMG	626
1 Meter (where available)	Complete Dataset (10,000mx10,000m Tiles)	Universal Transverse Mercator	IMG	1250*
Original Product Resolution DEMs (where available)	Complete Dataset and Individual States	Varies	ArcGrid	3800*

*Contact tnm_help@usgs.gov for current product volume.

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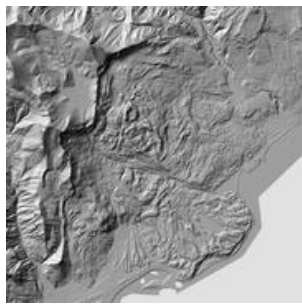
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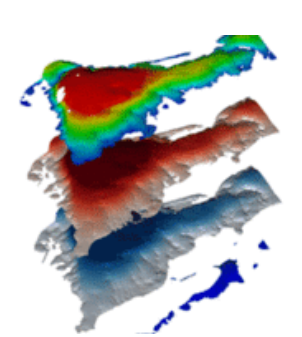
Where can I find 3D Elevation Program (3DEP) product updates and status maps?

3D Elevation Program (3DEP) product updates and status maps are available at these sites: 3DEP Product Availability 3DEP Data Acquisition Status Maps Acquire updated products through The National Map Downloader , The National Map Services , or through a bulk data request . 3D Elevation Program News The National Map Data Delivery News Subscribe to...



What is the coverage of standard 3D Elevation Program (3DEP) DEMs?

The area of coverage of any particular standard 3D Elevation Program (3DEP) DEM product is generally determined by the availability of source elevation data of similar or higher resolution. For example, the 1/3 arc-second layer is available for only portions of Alaska where higher resolution lidar or ifsar elevation sources exist. The 1/9 arc-...



How do I report errors in 3D Elevation Program (3DEP) elevation data?

If you think you've found an error in USGS elevation data, please send an email to tnm_help@usgs.gov . We will add the reported information to our "Digital Elevation Model Issues" data log for further analysis and possible correction. Spikes, pits, seam-line anomalies, and other data errors are of concern to us. We are working to correct or...

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