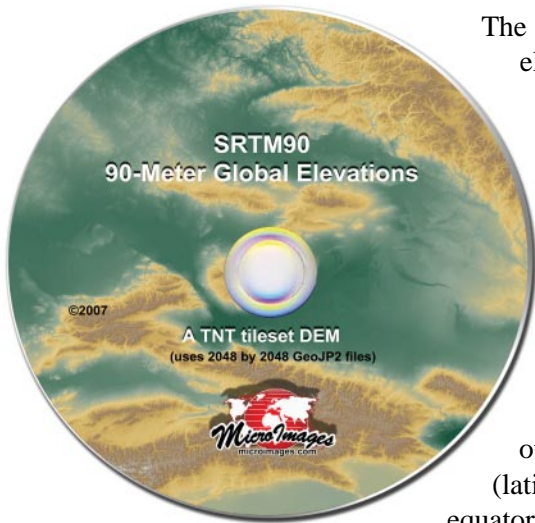


Global 90-Meter Elevation Data (SRTM90)



The 90-Meter Global Elevation Data DVD distributed by MicroImages provides elevation data for all continental areas between 60 degrees north latitude and 56 degrees south latitude, or about 80% of all land on Earth. The elevation data was produced by NASA's Shuttle Radar Topography Mission (SRTM) and processed to fill local voids related to poor radar returns (chiefly water bodies and steep mountain slopes facing away from the sensor) by Dr. Andrew Jarvis and Edward Guevara of the CIAT Land Use project, Dr. Hannes Isaak Reuter (JRC-IES-LMNH) and Dr. Andy Nelson (JRC-IES-GEM). MicroImages imported and mosaicked the data and created a TNT tileset of linked JP2 files. The tileset structure is optimized to allow very fast display of the entire dataset in the TNT products at any viewing scale. In addition, the small individual JP2 tile files (2048 by 2048 cells) can be used in any other software program that supports the JP2 format. The data are in geographic (latitude-longitude) coordinates with 3 arc-second cell size (about 90 meters at the equator) referenced to the WGS84 horizontal datum. **Lossless JPEG2000** compression has been applied to preserve the fidelity of the original data while reducing file sizes.

The elevation dataset provided on this DVD can be used in many ways in the TNT products:

- use as a terrain surface for stereo views of imagery and other geodata
- use extract as a terrain surface for 3D perspective views of imagery and other geodata
- use in the Topographic Properties process to derive slope, aspect, and curvature data and shaded relief images
- use in the Watershed process to delineate regional watershed boundaries, drainage networks, and their many associated attributes, along with other derived geomorphic/hydrologic characteristics
- use for Viewshed Analysis
- display with one of many standard color palettes (or design your own custom color palette) as backdrop for vector overlays
- overlay with partially-transparent shading raster to create a color shaded relief display
- extract portions of the raster data as needed for local projects

Technical Specifications

Size: 7.09 GB

Compression: Lossless JPEG 2000

Format: TNT Tileset using 2048x2048 GeoJP2 files

Data Type: 16-bit signed integer

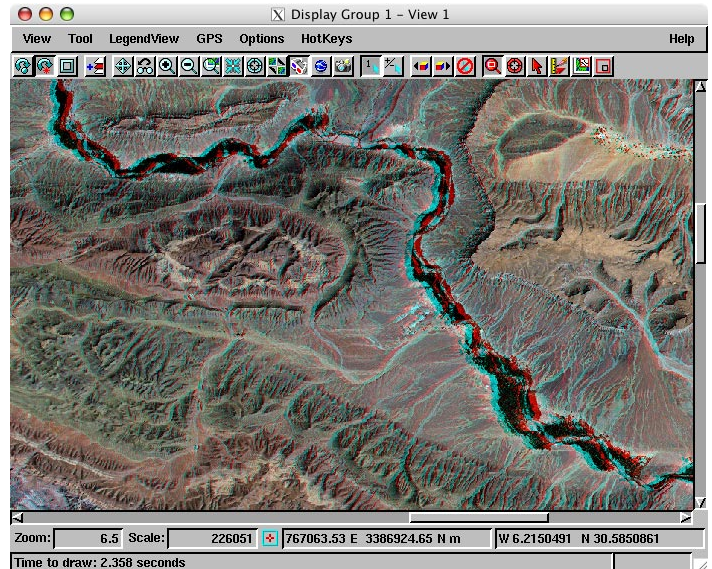
CRS: Geographic / World Geodetic System 1984 (WGS84)

Elevation Units: Meters

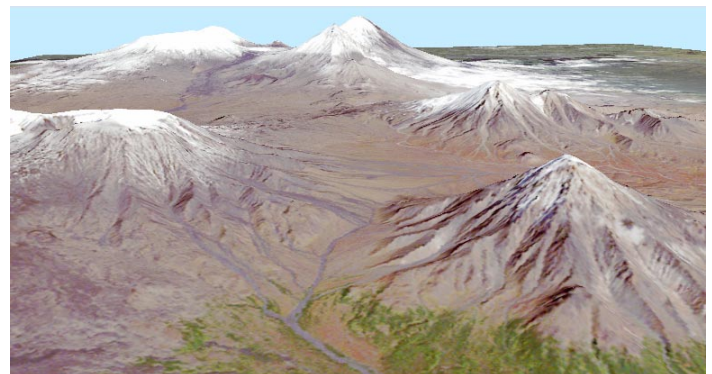
Extents: N 60° 00' 00", W 180° 00' 00" (Upper Left),
S 56° 03' 12", E 180° 06' 24" (Lower Right)

Number of Cells: 432,128 Lines x 139,264 Columns

Cell Size: 3 arc-seconds (nominally 90 meters)



Anaglyph stereo display of Landsat 7 scene (30-meter cell size) of Morocco using Global SRTM90 TNT tileset as the terrain layer.



3D Perspective view of volcanoes in Kamchatka (eastern Russia); Landsat 7 scene (30-meter cell size) draped on terrain extract from Global SRTM90 data.