

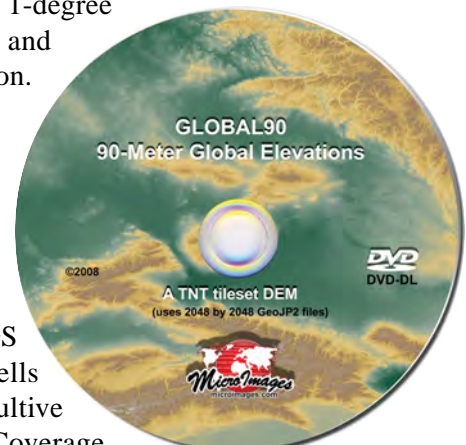
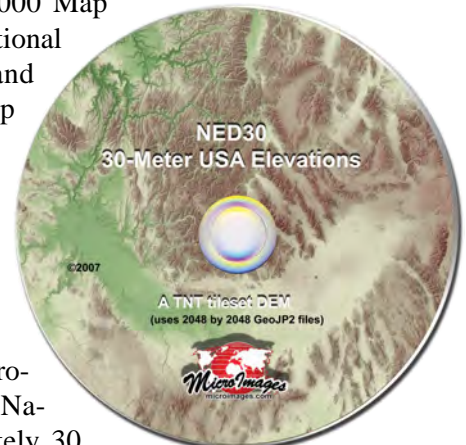
System

Free Geodata from MicroImages

Each professional TNT product ships with FREE geodata sets on DVDs. These geodata sets provide useful reference data for your projects. They also demonstrate the latest, optimized, fast TNT geometric and raster structures you can create and use for your geodata in TNTmips, TNTedit, and TNTview. For example, the global 90-meter and 30-meter USA elevations are both single, large, raster tilesets that are so fast they can be used for stereo viewing or analysis directly from DVD. Similarly, each global feature layer (e.g., coast lines, political boundaries, and so on) is a single global vector layer with full topology and attributes. See the Technical Guides at www.microimages.com/documentation/TGGeodata.htm for more detailed information on these datasets.

Free Products

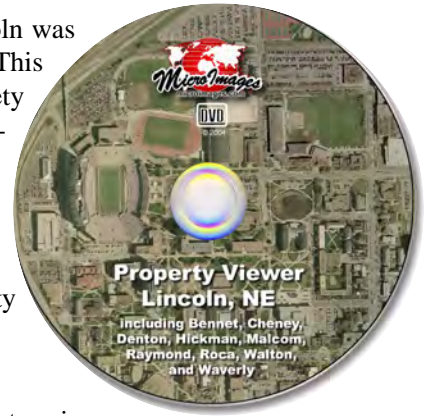
- **Global Geodata 2006:72.** This DVD contains four sets of global data: two World 500-m color images, World 1:1,000,000 Map Features, World Vector Shoreline Plus (1:250,000), and a World 1 km resolution Elevation raster. The two 500-meter color images were prepared from the Blue Marble Next Generation images with and without bathymetry available from NASA. Both use JPEG2000 compression and are 43,200 lines by 86,400 columns. The World 1:1,000,000 Map Features vector objects were assembled from VMap0 data created by the National Geospatial-Intelligence Agency (NGA) in 2000. VMap0 is an updated and improved version of NGA's Digital Chart of the World (DCW®). The map themes include Boundaries, Elevation, Hydrography, Industry, Physiography, Population, Transportation, Utilities, Vegetation, and Data Quality. The World Vector Shoreline Plus (WVSPLUS) vector object was also created by NGA in VPF format. WVSPLUS provides data at different resolutions, only the highest of which is provided with this dataset. The World 1 km Elevation raster object was prepared from GTOPO30 data.
- **NED30 30-Meter USA Elevations** (2008). The 30-meter USA Elevations DVD provides seamless elevation data for the conterminous United States from the National Elevation Dataset (NED) with a cell size of 1 arc-second (approximately 30 meters) produced by the U.S. Geological Survey. The data was acquired in 1-degree by 3-degree blocks, converted from floating point in meters to integer feet, and assembled into a TNT hierarchical tileset with lossless JPEG2000 compression. The complete raster set has 91,703 lines and 209,910 columns.
- **GLOBAL90 90-Meter Global Elevations** (2008). The 90-Meter Global Elevations DVD-DL provides elevation data for all continental areas between 56 degrees south latitude and 60 degrees north latitude plus arctic Canada and Alaska. This dataset was assembled from the version of NASA's Shuttle Radar Topography Mission (SRTM) elevation data posted by the U.S. Geological Survey that corrects a half-cell registration error in the earlier USGS version. Local voids in the dataset were filled using the corresponding cells from a void-filled SRTM dataset produced under the auspices of the Consultive Group for International Agriculture Consortium for Spatial Information. Coverage for northern Alaska (from the U.S. National Elevation Dataset) and northern Canada (from Canadian Digital Elevation Data) were added before mosaicking. The final TNT tileset uses lossless JPEG2000 compression and has 166,944 lines and 432,001 columns.



(over)

FREE Sample Atlases

- **Land Viewer Nebraska Statewide 2nd Edition.** The Nebraska Land Viewer atlas was developed as a model presentation of multiple layers of statewide geodata in the form of an electronic atlas with more than 1 terabyte of data (if uncompressed) on a single DVD. The original, natural color orthoimagery covering the state of Nebraska at 1-meter resolution is available for public download as 5,867 JPEG files orthophoto quarter quads. TNTmips was used to mosaic these rasters into a single, tileset raster using JPEG2000 compression. A number of vector layers are also included for location reference: city and county outlines, highways and roads, Natural Resource Districts (NRDs), township/range/section grids, and USGS map quadrangle outlines. Two custom tools are included with this atlas: one to rapidly zoom you from full extents to full resolution in a maximum of four clicks; and the other to help you find your area of interest using township and range with or without the section number or using the name of an NRD, county, 7.5' quadrangle, city, or town. This same tool links you to the Nebraska Department of Natural Resources for download of the original data available for the map quadrangle in the center of your View.
- **Property Viewer, Lincoln, NE 2nd Edition.** The Property Viewer atlas for Lincoln was developed as a model for management and presentation of city- or county-wide data. This atlas shows how you can assemble high resolution airphotos (30 cm or 1 ft) with a variety of vector layers that represent publicly available geodata, such as property parcels, floodplains, street centerlines, schools, historic districts, onstreet and offstreet bicycle/pedestrian trails, school districts, city boundaries, and townships. An elevation layer is also included. Information from all of these layers is shown in the DataTip that appears when the mouse is paused over any feature. A custom tool lets you search for property polygons by address or owner name. This tool also links you to the Lancaster County Assessor's Office for a located property so you can view current property records.



FREE for Viewing Online

- **State Orthophotos.** The USDA has collected 1- or 2-meter imagery of various states since 2003 (e.g. approximately 80% of the conterminous 48 states in 2006). This would be about 50 terabytes of imagery but is distributed by USGS in MrSID county files usually compressed 15:1 for a total of about three terabytes. MicroImages has downloaded these images, converted them to 15:1 JP2 files, and mosaicked them into statewide tileset coverages. These state images can be viewed at any scale from the Online Maps link at microimages.com.

FREE Geodata Provisioning

- **State Orthophotos.** The 1- or 2-meter USDA imagery of your site can be provisioned (i.e., extracted or windowed) from any of the state orthophoto tilesets described above. Simply go to www.geospatialgateway.com and use the web client it loads to select the year, state, area, format, and other desired parameters. The area you have defined will be extracted to an FTP site and notification of its availability sent to your email address. This site demonstrates that only a low cost TNTserver and a TNTmips are required to provision geodata via the Internet.

Geodata Available for Purchase

- **Canada 20-Meter Elevation Data (CDED20, 2007).** This DVD provides elevation data for nearly all of Canada with a cell size of 0.75 arc-seconds (approximately 23 meters in the north-south direction) from the Canadian Digital Elevation (CDED) series. This 4 GB raster is provided as a 16-bit signed integer TNT tileset with lossless JPEG2000 compression and has 199,204 lines and 429,609 columns. The tileset is comprised of smaller, linked GeoJP2 files, which can be used in any other software program that supports the JP2 format.
- **U.S. 10-Meter Elevation Data (NED10, 2007).** The 0.3 arc-second (approximately 10-meter) elevation data of the conterminous United States was obtained from the U.S. Geological Survey and uses the best quality elevation data available. The data was acquired in 1-degree by 3-degree blocks and converted from floating point in meters to integer feet and mosaicked into a single raster tileset. This 17.7 GB raster tileset uses lossless JPEG2000 compression and has 275,151 lines and 637,202 columns. Because of its size, this dataset is delivered on a pocket hard drive.

