Global Mapper - Beginners' Resources

Users' Manual

The Global Mapper User's Manual is available [here](#).

YouTube Channel

[Getting Started with Global Mapper](#)

[Working with Terrains in Global Mapper](#)

- Accessing Terrain Data
- Terrain creation
- Contour generation
- Line-of-sight analysis
- Viewshed analysis
- Volume calculation
- Terrain flattening
- Watershed modeling
- Slope analysis

Tutorial

The Global Mapper website provides a [tutorial for beginners](#). Registration is required, but the tutorial is free and only requires access to a license.

The contents of the tutorial are listed below:

Section 1 - Introduction to the principles GIS

- Importing/accessing data
- Creating and editing vector features
- Adjusting the appearance of vector features
- Working with raster layers
- Querying and filtering data
- The basics of spatial analysis
- Methods for sharing data

Section 2 - Generating a terrain surface and creating contours using LiDAR data

- LiDAR importing
- LiDAR editing/processing
- Data visualization
- Creating a gridded surface model
- 3D modeling
- Shader options
- Contour generation

Section 3 - Creating a thematic map

- Creating and managing attribute data
- Joining attributes from an external file
- Performing a calculation to create new attributes
- Applying a shading pattern to reflect recurring text values
- Applying a shading pattern to reflect numeric ranges
- Designing page layout elements including a legend and map title
- Printing the map or exporting to a geospatial PDF

Section 4 - Rectifying an image file

- Importing a base map for rectification
- Using field-collected ground control for rectification
- Modifying the projection
- Choosing a rectification method
- Adjusting the properties of the rectified map

Section 5 - Extracting vector features from a raster layer

- Vectorizing a specific color from a topographic map
- Vectorizing a range of colors to delineate features in from and aerial image
- Delineating an elevation range from a digital elevation model
- Outlining areas within a slope angle threshold

Section 6 - Creating a watershed model

- Creating a drainage network from a digital elevation model
- Outlining the watershed boundaries for a defined area
- Adjusting the watershed boundaries based on area and flow variables
- Creating a water drop analysis model
- Delineating the catchment area for a defined location