

TNTmips Newsletter — Interactive Image Classification

May 2013

The unique Feature Mapping process in TNTmips 2013 has improved tools and a simpler interface.

TNTmips provides you with several ways to classify your multispectral images. You can perform fully automated unsupervised and supervised classification using a diverse choice of methods in the **Automatic Classification** process. But for complex or poor-quality images, the unique **Feature Mapping** process lets you use your expert visual interpretation skills to guide automated analysis procedures to perform step-wise image classification. **TNTmips 2013** introduces a **simplified Feature Mapping window** that makes all of its powerful tools easier to use, along with refined classification tools and new ways to save your results.

Interactive Classification Tools.

Using Feature Mapping's interactive tools, you indicate image locations that you think are representative of a particular feature class, then let the tool automatically find image cells that are spectrally similar. After each automated procedure, you have the choice whether or not to assign the identified cells (a prototype feature) to the designated class. Add feature classes at any time during your analysis, giving each a name and assigning it a color.

Define Samples and Mark Features for Image-Wide Classification

Use the Define Samples tool to identify sample cells representative of a single feature class.

Run Classify procedure to find cells with similar spectra throughout the image.

Use the Mark Features tool to choose which prototype cell clusters to assign to the class.

Grow and Mark Features to Classify Individual Areas

Use the Grow and Mark Features tool to indicate a representative location within a candidate feature.

The tool finds a patch of contiguous cells with similar spectra.

Use the mouse scroll wheel or icon buttons to control the size of the prototype produced.

Draw Features

Use the Draw Features tool to draw prototypes or finished features.

Use point, line, polygon, rectangle, or circle tools.

Change all or part of any existing feature to another feature class or unclassified.

Draw protected areas that prevent cells from being classified.

Feature Mapping Aids.

Define a Region of Interest to limit the area being analyzed by the automated tools.

Open a second reference view showing feature outlines instead of color fills.

Use a reference vector object with polygons to limit the size of class prototypes.

Save Feature Map in Several Forms.

Save as a TNT raster object.

Save as a TNT vector object.

Save as a KML file for viewing in Google Earth.

New and Updated Technical Guides.

[Interactive Image Classification](#)

[Define Samples and Mark Features](#)

[Grow Feature Prototypes](#)

[Draw Features, Prototypes, and Protected Areas](#)

[View Features as Outlines](#)

[Save Features as Vector and KML](#)