Image Classification TNTmips

TNTmips provides a full suite of flexible tools for performing spatial/spectral classifications of your images. The **Automatic Classification** process provides automated unsupervised and supervised multispectral image classification with extensive post-classification analysis tools, error checking, and class-merging. The **Feature Mapping** process lets you visually identify class sample areas to guide an incremental image classification. You can analyze and classify hyperspectral images in the **Hyperspectral Analysis Process**. The **Automatic Raster Combination** process lets you combine classification results from different dates or conditions for analysis.

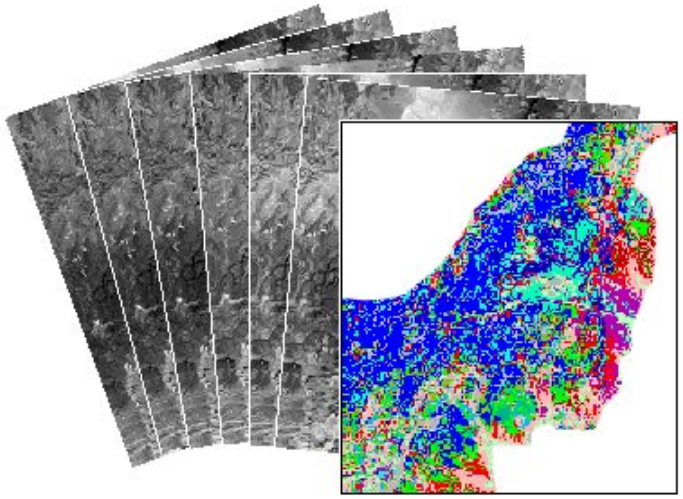
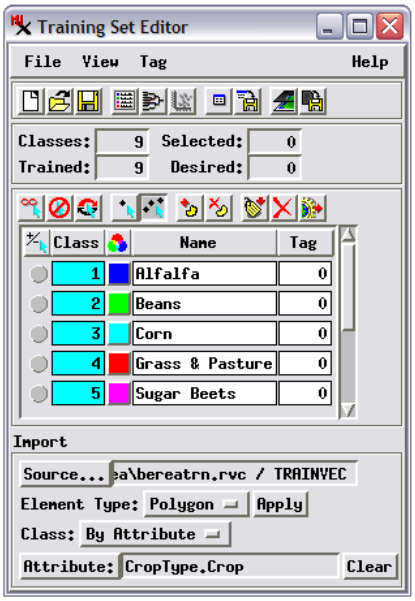
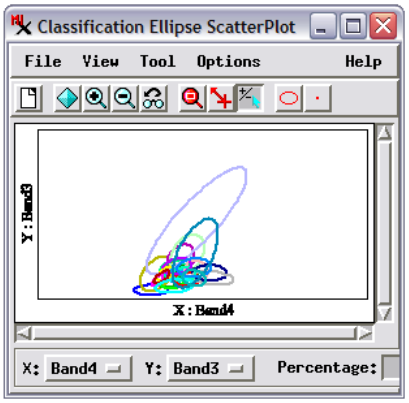


Image Classification Highlights:





- Work with large images (full scenes, scene mosaics) and multiple images from different sensors and/or dates
- Restrict classification to desired areas of any shape using mask
- Automated unsupervised and supervised classification with choice of classifiers for each
- K-Means, ISODATA, Maximum Likelihood, and many other classifiers including neural network methods
- Automatic display of classification result allows comparison with source imagery or any other geospatial data
- Graphical presentation of class statistics (dendrogram, scatterplots, co-occurrence matrix) to aid interpretation and analysis
- Reload classification result at any time for more analysis and modification
- Progressively merge classes with unlimited undos
- Name classes and save interpreted classification results at any time
- Create training sets for supervised classification manually or from attributes of polygon or point data
- Separate statistics compiled for training set and for classification result
- Error matrix shows accuracy of supervised classification
- Use your visual interpretive skills to guide an incremental classification of your image (i.e., Feature Mapping)
- Classify hyperspectral images and perform subpixel spectral identification
- Combine classification results for different dates or conditions into a single image showing all combinations of classes to determine correlations between different spatial conditions or detect change through time

For more information see: Technical Guides on Image Classification and Image Classification tutorial at the MicroImages website.