

NASA/EOCAP Hyperspectral 98

MicrolImages Announces Free Software

A broad spectrum of geospatial analysis procedures are provided by MicrolImages' flagship TNTmips product. These include a full range of image processing and GIS tools - the widest spectrum of geospatial tools offered by any commercial product. All these capabilities can be used free on limited size geodata sets in the FREE TNTlite product. In this packet is a CD containing your FREE TNTlite 5.9 for Mac and Windows (3.1, 95, 98, and NT). The many UNIX versions are on a separate CD which you can obtain upon specific request.

Approximately 6 months ago, MicrolImages began to add hyperspectral analysis capabilities to TNTmips. Due to the scarcity of hyperspectral images and experimental nature of their use, MicrolImages decided to make all these and additional future hyperspectral procedures available free via the TNTlite version of TNTmips.

The size limits on the raster objects which you can use in the FREE TNTlite 5.9 are 512 by 512 pixels with no limit on the number of spectral bands. This accommodates almost a complete framed AVIRIS image. The raster limits on the application of FREE TNTlite 6.0 have been increased to 614 by 512 pixels to specifically allow its application to a full AVIRIS frame.

The enclosed color tutorial booklet is one of 42 such color booklets which describe the myriad of features and procedures available in TNTlite and how to use them. This one booklet will acquaint you with the free hyperspectral analysis features that you will find in V5.90 and V6.00 when shipped. MicrolImages intends to continue adding new hyperspectral analysis features into the FREE TNTlite 6.1 for release in February.

If you would like to use any of these FREE hyperspectral analysis procedures in your NASA/EOCAP project or for any other purpose, please do so. If you would like MicrolImages to add modifications or new hyperspectral analysis procedures which will help you in your project, just give us a call and provide the necessary technical papers and other materials. Your suggestions and those developed under this EOCAP project will be provided free for anyone's use via the next quarterly release of TNTlite.

TNTlite 6.0 has been completed and will ship in early November. It is the 45th consecutive release of the TNT products over the past 12 years. The new CD containing the FREE TNTlite 6.0 will be sent to you automatically using the address you have provided. It provides the following additional FREE hyperspectral procedures which have been added to those in TNTlite 5.9.

- Animate RGB displays of materials with unique Hyperspectral Explorer (see color plate).
- Animate search for materials with n-Dimensional Visualizer (see color plate).
- Use self-organizing Map Classifier - unsupervised classification using neural network.
- Compute principal components and view eigenvectors and component variance plots.
- Import and export spectral curves from text files.
- Select a wavelength range(s) to define bands used in all steps.
- Use a variable averaging window (kernel) to extract multiple pixel spectra.



FREE
software