TNTmips Newsletter — Release of TNTgis 2016

January 2016

The 2016 edition of TNTgis was released on 13 January 2016, bringing you several exciting new processes and many process updates. It's not too late to order your upgrade to TNTgis 2016. Here are some of the highlights:

Full list of TNTgis 2016 New Features   Technical Guides for TNTgis 2016

New Processes

Radiometric Correction of satellite images to radiance and reflectance, including dark object and topographic corrections.

Lens Correction (geometric distortion and vignetting) for aerial camera images.

Raster Auto-Register to Reference: batch georeferencing of nominally georeferenced images or geolocated images with unknown orientation using image cross-correlation and keypoint matching.

Compute Key Points: compute and store keypoints for reference image for auto-registration.

Raster Reassign Cell Values: reassign cell values using automatic or manual modes.

Raster Convert Data Type: simple interface for raster data type conversion.

Processes Redesigned with Added Capabilities

Geometric Transfer Attributes: transfer attribute tables and records to spatially-matching elements in vector, CAD, or shape objects.

Raster Set Null Cells: specify null areas by minimum or maximum value, zero, specific value, range of values, or from a binary mask.

Raster Color Conversions: streamlined interface for color-space conversion and creation or separation of color-composites.

Bitmap, Hatch, and Line Pattern Editors updated with more flexible color and editing controls.

Watch for an updated Mosaic process in the first quarter of 2016 to support automated mosaicking and orthorectification of ungeoreferenced or geolocated aerial images acquired by low-altitude UAVs (drones). These updates will be incorporated in the 2016 Release version of TNTmips.

Other Highlights

Georeference Auto-Register operation: register geolocated aerial images with unknown orientation (e.g. from UAV or other aircraft) using keypoint matching and image cross-correlation.

Mosaic ungeoreferenced UAV or other aerial images with automatic tiepoint generation.

Run TNTgis software in Mac OS X 10.11 El Capitan.

Create and use database tables for vector label elements.

GeoTagged Image Table: allows writing to existing image databases and creating vector object with points attached to image database records.

TNTmips Menu Changes

Web GIS menu replaces Tileset menu.

Image menu reorganized to better group similar processes; added Classify, Statistics, and Spatial Analysis submenus.

Geometric menu reorganized to better group similar processes; added Statistics and Spatial Analysis submenus.