TNTmips Newsletter — Reassign Cell Values & Transfer Attributes

June 2015

TNTmips 2016 Development Version includes a new process to Reassign Image Cell Values and completely redesigned Set Raster Null Cells and Transfer Attributes processes with greatly expanded capabilities.

Reassign Image Cell Values

The Reassign Image Cell Values process (Image / Filter / Reassign Cell Values) transforms individual cell values or ranges of cell values in an input raster object to different values in an output raster object of the same dimensions. The process provides multiple methods for designing and applying a lookup table to reassign cell values.

- Change cell values and data type using automatic or manual modes or from a raster database table.
- Convert a continuous range of values (integer or floating-point) to a series of discrete integer values, each representing an equal range of input values (density-slicing).
- Define a set of minimum thresholds to map unequal ranges of continuous values to a series of integer values.
- Define a set of contiguous or noncontiguous ranges by minimum and maximum value and set the output value to assign for each range.
- Change one or more individual cell values in a raster object containing condition scores to be used in map overlay analysis.
- Apply a contrast lookup table to one or more grayscale images.
- Save and reopen a lookup table or import from a contrast table.
- Process multiple input rasters with the same data type using the same reassignment settings and optionally use the TNTmips Job Processing System.

Technical Guide: Reassign Image Cell Values

Set Raster Null Cells

- Set a specific value as null or create a null mask.
- The redesigned process window shows the existing null settings (null value, null mask).
- Set a specified range of values to null.
- Set Minimum, Maximum, or Zero as the null value from a menu or manually enter any value.
- Choose to create a new raster or process in place.
- Apply a specified binary raster to modify a null mask.
- Process multiple matching rasters using the same settings and optionally use the TNTmips Job Processing System.

Technical Guide: Set Raster Null Cells

Transfer Attributes

The Transfer Attributes process automatically transfers attribute tables and records from elements in a source geometric object to spatially-matching elements in a target object. The process can also transfer attributes from a source raster object with a database (such as a classification raster) to geometric points.

- Process control window redesigned for greater ease of use.
- New View window automatically displays the source and target objects.
- Use a CAD or shape object in addition to vector as either source or target.
- Transfer attributes directly to the target object or to a copy.
- Use all elements or only those marked in the View in the source and/or target object.
- Choose which tables to transfer and whether to join to existing tables with same structure.
- Transfer all records or only those attached or related to elements.

- Option to save a text report with summary and details of the transfer operation.
- Choose from several spatial matching criteria for different types of source/target elements.
- Transfer attributes from points, lines, or polygons to vector labels based on proximity or containment.
- Transfer attributes from source lines to target lines by intersection, subset, equivalence within specified distance, or all within minimum distance.
- Transfer attributes between lines and polygons based on overlap.
- Transfer attributes between polygons and points, lines, polygons, or labels based on containment.
- Run process directly or using the TNTmips Job Processing System.

Technical Guide: Transfer Attributes

---

www.microimages.com | info@microimages.com | 402-477-9554
206 South 13th Street, 11th Floor, Lincoln, Nebraska 68508-2010 USA