

The RockWorks GeoTiff Importer

The GeoTiff import utility will import the elevations from up to four GeoTiffs (Figure 1 - Item 1) into a single RockWorks grid (Figure 1 - Item 2). Why import more than one file at a time? Well, it is a well-known fact that all interesting geological features lie at the common edges or corners of maps. Accordingly, the RockWorks GeoTiff importer allows the user to select between one and four GeoTiff files. Elevations from these files will be extracted for the extents defined by the Project Dimensions into a RockWorks grid file. In the process, the program will convert the point coordinates to the Project Units (e.g., UTM's to state plane coordinates).

If GeoTiff coverage is missing for any portion of the Project Dimensions, the user may elect to interpolate elevation values based on the closest defined points (Figure 1 - Item 3). Otherwise, null values (-1.0e27) will be assigned to these grid nodes.

In the event that the goal is to show the entire GeoTiff (or group of GeoTiffs), there is an option (Figure 1 - Item 4) to set the Project Dimension to the extents of the GeoTiff(s).

As each GeoTiff is selected, the salient details are displayed within a scrolling sub-window (Figure 1 - Item 5). These details can be indispensable when diagnosing problems with the import process.

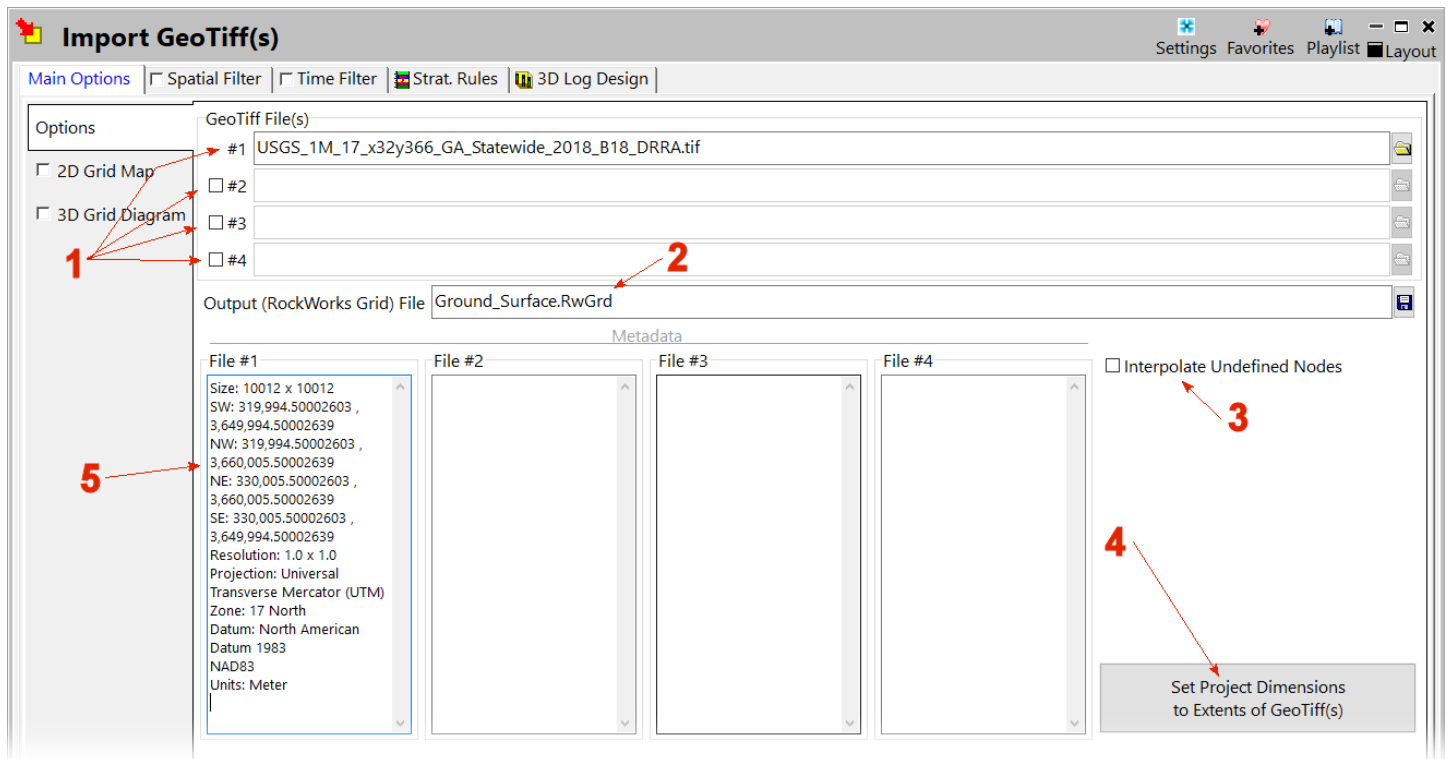


Figure 1

As mentioned previously, the idea behind simultaneously importing up to four GeoTiffs is to make it easy to extract grids for study areas that extend into more than one GeoTiff is illustrated below (Figure 2).

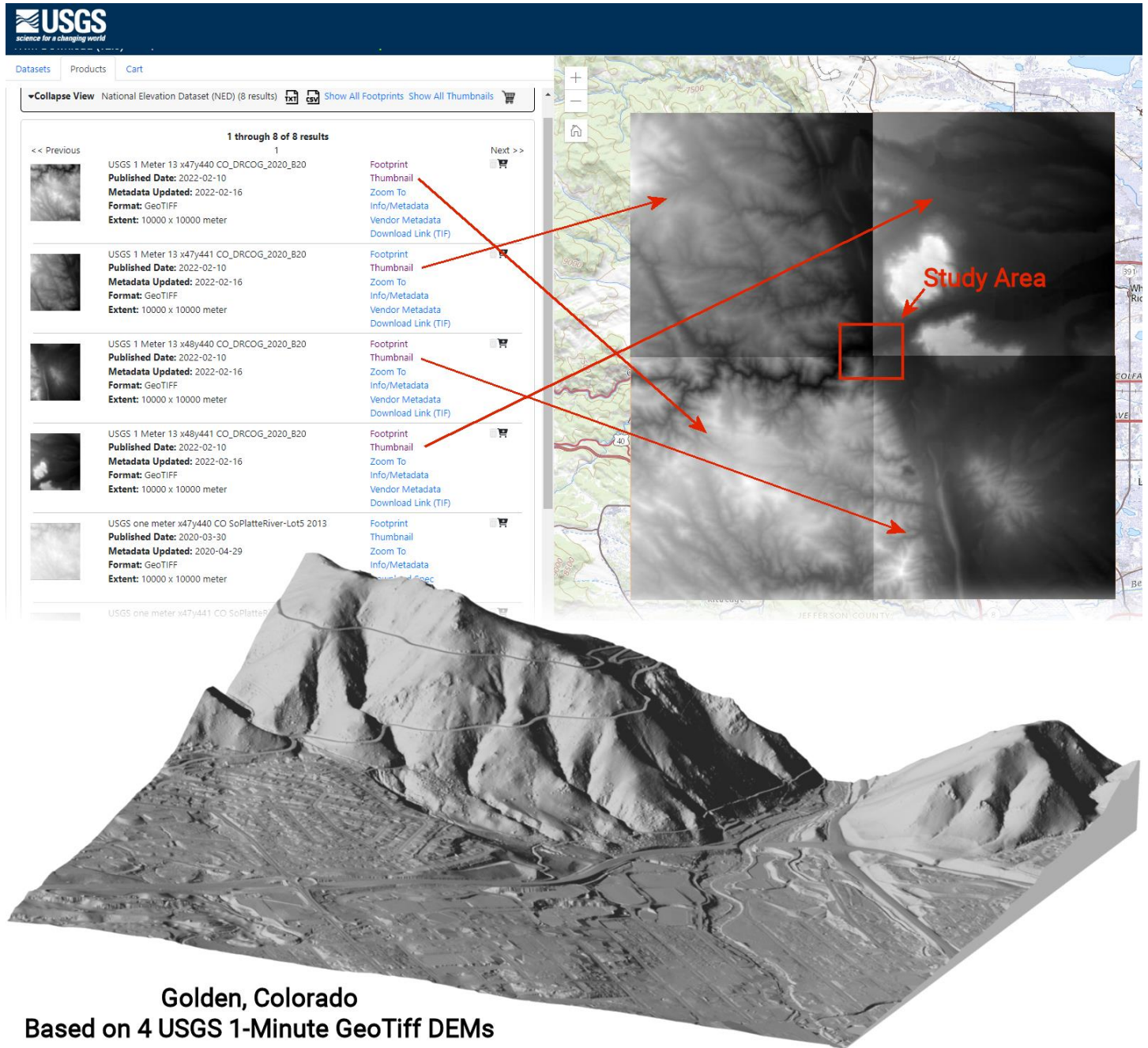


Figure 2

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