Spatial Display

tion from the Add Raster icon



Multi-band Image Layers

Multi-band Image layers are raster display layers consisting of three or more image bands (matching in row-column dimensions) that are displayed in color using your choice of three of the bands. You can change the color display choice at any time without otherwise changing the layer. For example, you can select all multispectral bands from a four-band image with blue, green, red, and near-infrared bands and display either natural color or color-infrared band combinations, changing between them at any time in the same layer. Or add six multispectral bands of a Landsat Thematic Mapper image and choose between multiple color combinations, as illustrated below.

You can add a multi-band image layer in the Display Manager by selecting the Multi-band op-

N Display Manager

button menu, by choosing Add / Layer / Raster / Multi-band, or by choosing multiple image bands using the Add icon button (see the Technical Guide entitled *Spatial Display: Select Multiple Rasters for Separate, Multi-band, or RGB Layers*).

You are prompted to choose image bands for the Red, Green, and Blue components of the color display. If any bands are named "Red", "Green", or "Blue" (or variants thereof), they are set as the initial default selection in the menu for their respective color component.

To change the color assignments for a multi-band image layer, open the Raster Layer Controls window. The Object panel on this window for a multi-band image layer includes a menu for

the Red, Green, and Blue components allowing you to change the color-component assignments for the layer.

	Display Add Options Help
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Select raster objects to display	Single
	Red-Green-Blue
Browse Catalog Search	Multi-band
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Name (6 objects) A Type	Hue-Brightness-Saturation
Band1 Raster	Red-Green-Blue-Intensity
Band2 Raster	— Cyan-Magenta-Yellow
Band3 Raster	Cyan-Magenta-Yellow-Black
Band4 Raster	HyperspectraL
Band5 Raster	
Band7 Raster	
Files JAII Selectable Jrvc Jadf Jbmp Jbt Jcdf Objects All	
Selected Favorites Recent Preview	
+*-#2	Selected Ba
Name Location	Red L7_p012r024.rvc / Band3 💌
Band1 C:\Users\crobbins\Desktop\Multiband\L7_p012r024.rvc	Green 1.7 - 012-024
Band2 C:\Users\crobbins\Desktop\Multiband\L7_p012r024.rvc	
Band3 C:\Users\crobbins\Desktop\Multiband\L7_p012r024.rvc	Blue L7_p012r024.rvc / Band1 💌
Band4 C:\Users\crobbins\Desktop\Multiband\L7_p012r024.rvc	OK Carrel
Band5 C:\Users\crobbins\Desktop\Multiband\L7_0012r024rvc	
	OK Cancel
6 objects added to selected set.	

When you choose the Multi-band raster layer display option, you can add 3 or more image bands as a single multi-band layer. You are automatically prompted to choose initial band assignments to the red, green, and blue components of the color display. 💺 Raster Layer Controls - Band7, Band4, Band2 - - × Object Options Legend Filter 3D -Red L7_p012r024.rvc / Band7 Ŧ Contrast EXPONENTIAL • L7_p012r024.rvc / Band4 -Contrast EXPONENTIAL V Blue L7 p012r024.rvc / Band2 • Contrast EXPONENTIAL **T** Georeference WGS84 / UTM zone 19N (CM 69W) 🗾 🗷 Use Saved Model ____ Mask... -Data Tip Red Prefix Band7: Suffix 🕅 Green Prefix Band4 Suffix Blue Prefix Band2 Suffix OK Close Apply Help

Open the Raster Layer Controls window for a multi-band raster layer and use the Red, Green, and Blue menus to select a different combination of image bands for the color display.

Sample color displays of a 6-band Landsat Thematic Mapper image from a single multi-band raster layer.

