

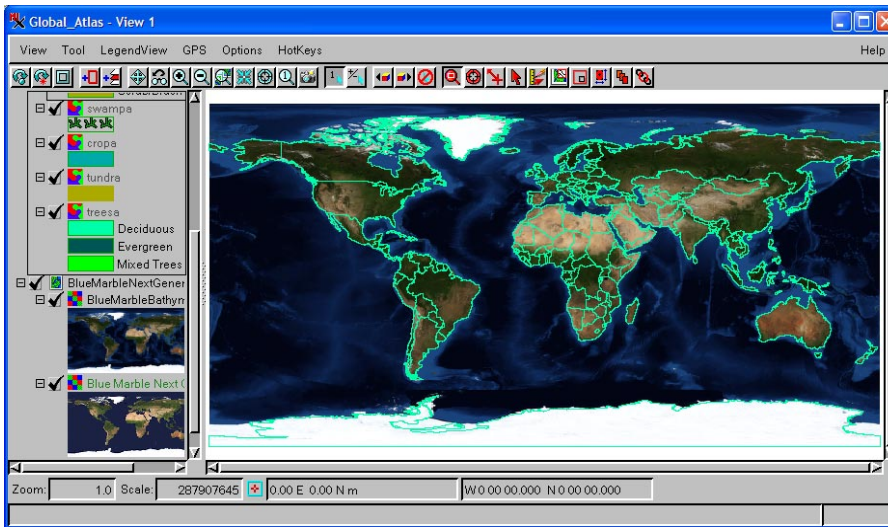
Spatial Display

Image Thumbnail Raster Legends

A number of different legend types are available for raster objects: area sample, image thumbnail, continuous color scale, color scale ranges, color sample, and theme map ranges. The last four choices accompany specific qualitative or quantitative display choices (for example, continuous color scale for elevation rasters with color maps applied and theme map ranges when you have elected the theme mapping option). The first two options (area sample and image thumbnail) use part or all of the raster as displayed to produce the legend image. The best choice between these two for a particular raster requires familiarity with the overall raster image or trial and error.

Area sample legend images are 64x64 pixels where each pixel represents a single raster cell from the raster location you select (sample is at 1X). You may have a difficult time selecting a suitable image sample to use in LegendView for rasters with large null areas or large areas of a uniform value, such as water. An image thumbnail legend type is provided for such cases. For a raster with no representative areas among the nine area sample choices, an image thumbnail is often quite recognizable, such as NASA's Blue Marble global image illustrated below or the orthophoto mosaic of National Agricultural Imagery Program (NAIP) for Florida (see <http://www.microimages.com/TNTmap/Florida>) produced by MicroImages. These thumbnails are generated from pyramid tiers and not stored. Image thumbnail is now the default legend type set if the raster is pyramided or smaller than 512x512. Image thumbnails are 128x64 pixels in LegendView, but one dimension may be smaller depending on the raster proportions.

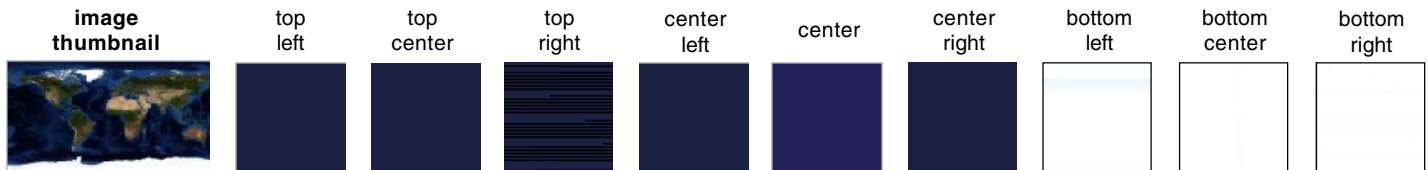
Image thumbnails are often the best choice for rasters with large null or uniform data value areas, such as the global image at the right. Other rasters are often best represented by an image sample.



www.microimages.com/TNTmap/Florida) produced by MicroImages. These thumbnails are generated from pyramid tiers and not stored. Image thumbnail is now the default legend type set if the raster is pyramided or smaller than 512x512. Image thumbnails are 128x64 pixels in LegendView, but one dimension may be smaller depending on the raster proportions.

The default **thumbnail legend entry** and the 9 optional area sample legend entries for 3 different color raster objects are illustrated below.

For the global raster illustrated above, the image thumbnail is the clear choice since all of the 9 area samples (below) represent water or ice.



Because the raster (below) is part of an atlas designed to show parcel information, the center area sample, which shows part of a house, may be the best choice.



Using the thumbnail (below) would provide a representation of the whole raster object while choosing one of the 9 area samples would give a better idea of its content and scale.

