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Subject: Coyote Library Updates

Posted by [David Fanning](#) on Fri, 17 Aug 2012 14:22:20 GMT

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Folks,

There have been several updates to Coyote Library files this week, mostly involving mapping functionality.

**cgGeoMap** -- I added a PALETTE keyword to return the RGB color vectors in a GeoTiff file, if I am reading the file. This makes it easier to display the GeoTiff file in the proper colors.

```
mapCoord = cgGeoMap(geoTiffFile, Image=image, Palette=pal)
cgImage, image, Palette=pal
```

**cgMap** -- I added a BOUNDARY keyword to the GetProperty method of this map coordinate object. This is a sometimes more convenient way of obtaining the X RANGE and Y RANGE of the map coordinate space. A four-element array describing the map boundary.

**cgClipToMap** -- A new mapping utility routine to clip or subset a georegistered image (i.e., one with an associated map coordinate object) to a map boundary. This is useful, for example, when you want to compare two images with different map ranges and/or pixel resolutions.

**cgImage** -- Previously, when you set the OVERPLOT keyword the image would be positioned to exactly fill up the previously determined axis range. But, the program has been modified so that if you also use the X RANGE and Y RANGE keywords with the OVERPLOT keyword, the position will be adjusted to take into account the range keywords. I use it to locate an image with a smaller range on top of an image with a larger range in a semi-transparent way. Also, the NOERASE keyword is now set automatically when the OVERPLOT keyword is set, if the NOERASE keyword is undefined.

You can find updated Coyote Library files here:

[http://www.idlcoyote.com/programs/zip\\_files/coyoteprograms.zip](http://www.idlcoyote.com/programs/zip_files/coyoteprograms.zip)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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