

Folks,

I typically spend the holidays slogging down eggnog, reading trashy novels, and working on an IDL project that has been bugging the daylights out of me because I don't have an extended period of time to work on it due to the usual pressures of job, family, tennis, etc.

This year was no different. But what to do for a project?

Since I've taken a real job, I spend an awful lot of time working with satellite images. It helps me a great deal when I am working with these images if I can see a few land masses in them in order to get my bearings, etc. And since these are generally map-projected images of some sort, I would like to be able to display map overlays of land boundaries, grid lines, etc.

I have been absolutely chagrined at how few tools IDL has at its disposal to do this kind of thing. Everything is clunky. Nothing is interactive. Probably iMap does what I want, but I honestly can't figure those damn iTools out and my blood pressure always rises into the danger level when I try to use them.

I even tried to do this in ENVI, which I like for a lot of things, and especially for its flexible map projections. But following the recommended way to overlay a projected image with continental boundaries in ENVI resulted in a program that took about 3 minutes to display the image with its overlay! Uh, that is **way** too long, folks.

So, long story short, I spent the holidays cobbling up a map coordinate object for my Catalyst Library that allows me to set up a map projection space in a very easy way. Then I wrote a couple of wrapper objects for Map_Continents (or Map_GSHHS_Shoreline, if you prefer that) and Map_Grid. Used with the map coordinate object, I can **automatically** get map overlays and grids on any georeferenced image.

It's pretty sweet, if I do say so myself.

You can see how I go about doing it in this article:

<http://www.dfanning.com/catalyst/maonimage.html>

This is the image display program I've always wanted. :-)

Cheers,

David

P.S. Every time I look into map projections I get more frustrated with the map projection routines in IDL. Here is an area that could really use some of our maintenance dollars applied to it. Heck, how long could it take to move ENVI's map routines over to IDL? I am advising all my friends to completely avoid the MAP_SET routines. I no longer have any confidence in them. The MAP_PROJ*** routines are better, but they are really limiting for someone who works with map projections on a daily basis. It wouldn't take a lot of work to do a LOT better in this area.

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

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