
Subject: Re: Add GSHHS coastline on georeferenced image layers retrieved from MODIS HDF file?

Posted by [David Fanning](#) on Fri, 25 Jun 2010 11:25:47 GMT

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Harry Kim writes:

- > Hi, all. I would like to add the coastline on my solar zenith angle
- > (SOLZA) image layers on Korean Peninsula retrieved from MODIS 07
- > atmospheric profile product. These images were georeferenced on the
- > basis of the information in the geolocation fields (data set # 0 and
- > 1, latitude and longitude, respectively) of MODIS 07 HDF file. In
- > order to add the high resolution coastline, I downloaded
- > Map_GSHHS_shoreline (David Fanning, 2008).
- >
- > However, at least in my understanding so far, Map_GSHHS_shoreline
- > seems to draw a coastline on a blank window, and I have no idea how to
- > link this procedure to the classical MODIS image-processing method.
- > Please take a look at my sourcecode and give me any suggestions,
- > especially section 3.2.

I think the basic problem is to figure out how to get the polygons generated by Map_GSHHS_Shoreline into ENVI as a vector layer. I don't have any idea how to do this. (It may even be easier to use GSHHS shapefiles for this, rather than the polygon files Map_GSHHS_Shoreline uses.)

I put continental outlines on images a LOT. It's just about the only way I can figure out what I am doing with an image. But I have never figured out a good way to do this in ENVI. It literal takes on the order of *minutes* to draw a continental outline on an ENVI image (verses instantaneously in IDL). I don't know why. The ENVI representatives I have discussed this with don't know why, either.

I guess what I am saying is, even if you could figure out how to make a vector layer from the GSHHS data, I'm not sure you are going to be happy with the result. It just seems to me that this is one of those few things that ENVI is not very good at.

Cheers,

David

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David Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
