
Subject: Re: Map to data coordinate conversion

Posted by chris_torrence@NOSPAM on Thu, 18 Apr 2013 15:12:16 GMT

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On Thursday, April 18, 2013 8:19:48 AM UTC-6, Paul Mallas wrote:

> Hello all,

>

>

>

> I am looking to convert, given a geotiff image with map info, the lat/lon data to a pixel location in an image.

>

>

>

> What I want to do seems pretty easy, but I am having a hard time coding it in IDL for some reason. I must be missing something.

>

>

>

> Using the ENVI() API, this was straight forward:

>

>

>

> oEnvi = envi(/headless)

>

> eMask = oEnvi->openRaster(file)

>

> fid = ENVIRasterToFID(eMask)

>

> envi_convert_file_coordinates, fid, xf, yf, lon, lat

>

>

>

> with lon, lat being my predefined input and xf, yf being my desired output.

>

>

>

> The analogous way to do this in IDL is (I think):

>

>

>

> img = image(file, /buffer)

>

> xy = img->convertcoord(lon, lat, /to_data)

>

>

>

> however the image() function won't read the geotiff properly (but ENVI() accepts it just fine).

Perhaps my geotiff tag is not properly formed or something. Ideas on another way?

Hi Paul,

I think you want to use the MapForward method. Something like this:

```
i = image(FILEPATH('boulder.tif',SUBDIR=['examples','data']))  
print, i.mapforward(-105,40)
```

The ConvertCoord is just for converting between screen/normalized/data coordinates, and not between lat/lon and data.

Hope this helps.

-Chris

ExelisVIS
