
Subject: Re: image interplate and overlay lat/lon?

Posted by [David Fanning](#) on Wed, 22 Aug 2012 16:49:06 GMT

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go cats writes:

> My goal is to take an image(s) and overlay geographic lat/lon information onto the image. I have lat/lon information of four boundaries and tried to create a regular grid using them.

>

> I?ve used David?s code to generate a regular lat/lon grid, and tried to interpolate image with gridded lat/lon data.

>

> However, outImage looks blank and only geographin lat/lon data are shown with 0 image pixel values. I am working on 8-bit tif images.

>

> Would anybody give me some tips how to make this work or what I did wrong?

After doing a bit of research, I guess this is the right way to create a GeoTiff grid with an equal-area cylindrical (called other names!) projection. Although, I really don't know what "Raster Pixel is Point" means. It seems to me a raster pixel describes an area.

Anyway, I don't see any reason for Interpolating the input image. Presumably your grid *describes* the input image. If you really want to make it another size, I would use Congrid. That has the advantage of doing the interpolation correctly and in a way I don't have to worry about it. :-)

As far as not seeing anything, is this because you haven't scaled the data, or because you tried to interpolate byte data, or ... God only knows what.

I would *guess* your image might be upside down. When I work with images and GeoTiff files, I always reverse the Y direction when I read from the Tiff file, and reverse it again when I write it.

```
Write_Tiff, Reverse(outimage,2), GEOTIFF=geoTag
```

Cheers,

David

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