Subject: image interplate and overlay lat/lon?
Posted by beardown911 on Wed, 22 Aug 2012 15:57:48 GMT
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Hello all,

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?

Thanks in advance,
Kim

P.S. Below is what I've been working on.

```
;-------------------------------------------------------
; image(0,0)locates at the upper left corner
   xOrigin = maxLon
   yOrigin = maxLat

   xscale = (maxLon – minLon)/nS
   yscale = (maxLat – minLat)/nL

   uvec = Findgen(nS) * xscale + xOrigin
   vvec = yOrigin - (Findgen(nL) * yscale)

   uarray = Rebin(uvec, nS, nL)
   varray = Rebin(Reform(vvec, 1, nL), nS, nL)

 outImage = Interpolate(inImage, varray, uarray)
.
.
.
geoTag = { $
        ModelTiepointTag: [0.0, 0.0, 0.0, xOrigin, yOrigin, 0.0], $
        ModelPixelScaleTag: [xscale, yscale, 0.0], $
        GTModelTypeGeoKey: 2, $ ; (ModelType Geographic)
        GTRasterTypeGeoKey: 2, $ ; (RasterPixelIsPoint)
        GeographicTypeGeoKey: 4326 $ ; (WGS84)
        }
.
.
```

```
WRITE_TIFF, outImage, GEOTIFF = geoTag
;-----------------------------------------------------
```

Subject: Re: image interplate and overlay lat/lon?
Posted by Klemen on Mon, 27 Aug 2012 12:41:07 GMT
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Hi, some recommendations to you GeoTag

Here I set 1 instead of 2 as you do:
GTRasterTypeGeoKey: 1, $; (RasterPixelIsPoint)

I use also:
GEOGANGULARUNITSGEOKEY: 9102;angular unit decimal degree

Subject: Re: image interplate and overlay lat/lon?
Posted by beardown911 on Tue, 28 Aug 2012 18:24:04 GMT
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I give sincere thanks to David.
It works like a charm.

And thanks to Yngvar & Klemen for nice tips and information.

Have a nice day all,

Kim