
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, \$; (RasterPixellsPoint)

I use also:

GEOANGULARUNITSGEOKEY: 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
