
Subject: Re: Retrieve pixel values from GeoTIFF
Posted by [David Fanning](#) on Sat, 27 Nov 2010 20:59:07 GMT
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David Fanning writes:

```
>  
> mankoff writes:  
>  
>> David: I've also tried using your GeoCoord object, and can display the  
>> graphic and coastlines just fine, but again, am stuck at the step of  
>> "convert (lon,lat)=(-100,-75) to (x,y) for indexing into the original  
>> TIF".  
>  
> mapCoord = GeoCoord('mygeotiff_file.tif')  
> mapStruct = mapCoord -> GetMapStructure()  
> xy = Map_Proj_Forward(lon,lat, Map_Structure=mapStruct)  
> x = xy[0]  
> y = xy[1]
```

Oh, wait! You said you want to index into the original image. (My son is bugging me about buying a car today, so I'm distracted. :-)

In addition to the above, I would do this.

```
mapCoord -> GetProperty, XRANGE=xr, YRANGE=xy  
s = Size(image, /Dimensions)  
xvec = Scale_Vector(Findgen(s[0]), xr[0], xr[1])  
xindex = Value_Locate(xvec, x)  
yvec = Scale_Vector(Findgen(s[1]), yr[0], yr[1])  
yindex = Value_Locate(yvec, y)
```

Then,

```
Print, image[xindex, yindex]
```

Cheers,

David

--

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