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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 bying a car today, so I'm distracted. :-)

In addition to the above, I would do this.

```
mapCoord -> GetProperty, X RANGE=xr, Y RANGE=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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David Fanning, Ph.D.  
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

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