
Subject: Re: Retrieve pixel values from GeoTIFF
Posted by [David Fanning](#) on Sat, 27 Nov 2010 21:03:10 GMT
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David Fanning writes:

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> David Fanning writes:
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>>
>> 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]
```

Geez! Be sure to type that code with one eye closed!
I have to go look at cars. If you can't figure it out,
I do it right when I return. :-)

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.")
