
Subject: Re: Retrieve pixel values from GeoTIFF
Posted by [mankoff](#) on Sat, 27 Nov 2010 20:45:06 GMT
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On Nov 27, 12:06 pm, Paulo Penteado <pp.pente...@gmail.com> wrote:

> On Nov 27, 4:53 pm, mankoff <mank...@gmail.com> wrote:

>

>> I'm trying to get the pixel values (color) from a GeoTIFF file when I
>> have lat,lon arrays. I have the projection set up using MAP_PROJ_INIT,
>> and using MAP_PROJ_FORWARD I can convert from my latitude and
>> longitude to map coordinates, but the map coordinates appear to be in
>> units meter from some reference location. What is the best routine to
>> convert from lat,lon (or u,v) to x,y indices?

>

> It seems that map_proj_forward() can do what you want, you are just
> not giving it the right projection parameters. What is in the geotiff
> structure?

Working through a simpler well-documented example (thanks to David)
here:

http://www.dfanning.com/map_tips/iceshelf.html

The "xy" returned from MAP_PROJ_FORWARD contains negative values, so
this cannot be indices into the image. Should I be using CONVERT_COORD
to go from DATA to DEVICE with the xy array?

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".

-k.