## Subject: Re: Retrieve pixel values from GeoTIFF Posted by mankoff on Sat, 27 Nov 2010 20:45:06 GMT

View Forum Message <> Reply to Message

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.