
Subject: GeoTIFF help - conversion to lat/lon
Posted by [rjp23](#) on Fri, 16 Jun 2017 08:32:01 GMT
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I'm hoping someone can help as the GeoTIFF format is confusing me somewhat.

I'm following David's excellent tutorial at http://www.idlcoyote.com/map_tips/tiffoverlay.html

However, my GeoTIFF is missing some of the geotag information that David uses in his example.

I don't have the variables to do this bit:

```
; Map the corners in lat/lon space by inverse transformation.  
alberMap = MAP_PROJ_INIT('Albers Equal Area Conic', $  
    DATUM=8, $ ; WGS84  
    CENTER_LAT=geotag.PROJNATORIGINLATGEOKEY, $  
    CENTER_LON=geotag.PROJNATORIGINLONGGEOKEY, $  
    STANDARD_PAR1=geotag.PROJSTDPARALLEL1GEOKEY, $  
    STANDARD_PAR2=geotag.PROJSTDPARALLEL2GEOKEY)  
lonlat = MAP_PROJ_INVERSE([xOrigin, xOrigin, xEnd, xEnd], $  
    [yOrigin, yEnd, yEnd, yOrigin], $  
    MAP_STRUCTURE=alberMap)
```

And I can't work out what the equivalent is with what I have:

```
IDL> help, geotag  
** Structure <637638>, 18 tags, length=184, data length=158, refs=1:  
MODELPIXELSCALETAG  
    DOUBLE Array[3]  
MODELTIEPOINTTAG  
    DOUBLE Array[6, 1]  
GTMODELTYPEGEOKEY  
    INT 1  
GTRASTERTYPEGEOKEY  
    INT 1  
GTCITATIONGEOKEY  
    STRING 'Projected Coordinates '|  
GEOGRAPHICTYPEGEOKEY  
    INT 4326  
GEOGCITATIONGEOKEY  
    STRING 'WGS84'  
GEOGGEODETICDATUMGEOKEY  
    INT 6326  
GEOGPRIMEMERIDIANGEOKEY  
    INT 8901  
GEOGLINEARUNITSGEOKEY  
    INT 9001  
GEOGANGULARUNITSGEOKEY
```

```
    INT      9102
GEOGELLIPSOIDGEOKEY
    INT      7030
GEOGSEMIMAJORAXISGEOKEY
    DOUBLE   6378137.0
GEOGSEMIMINORAXISGEOKEY
    DOUBLE   6356752.3
PROJECTEDCSTYPEGEOKEY
    INT      32611
PCSCITATIONGEOKEY
    STRING  'UTM / WGS84'
PROJECTIONGEOKEY
    INT      16011
PROJLINEARUNITSGEOKEY
    INT      9001
```

Also listgeo doesn't seem to exist at <https://www.remotesensing.org/geotiff/listgeo.html> any more.

Any help would be much appreciated

Thanks
