
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
