Subject: Re: how to composite a mapcoord object using geographic coordinate(no projection)
Posted by David Fanning on Mon, 24 Feb 2014 13:37:38 GMT

View Forum Message <> Reply to Message

Jie Zhou writes:

> I have send you a geotiff file with geographic coordinate by email yesterday. Did you get it?

I did get this file. Here is what the GeoTiff structure in the file
looks like:

```
IDL> help, geotiff
** Structure <6bcac450>, 7 tags, length=104, data length=96, refs=1:
  MODELPIXELSCALETAG
          DOUBLE    Array[3]
  MODELTIEPOINTTAG
          DOUBLE    Array[6, 1]
  GTMODELTYPEGEOKEY
          INT          2
  GTRASTERTYPEGEOKEY
          INT          1
  GTCITATIONGEOKEY
          STRING    'IMAGINE GeoTIFF Support
ERDAS Desktop 2010 10.1.0.604
Projection Name = Geographic (Lat/Lon)
Units = degrees
GeoTIFF Units = dd'
  GEOGRAPHICTYPEGEOKEY
          INT          4326
  GEOGANGULARUNITSGEOKEY
          INT          9102
```

You can see that the map projection "information" is embedded into the
file in a non-standard way as a CGCITATIONGEOKEY string that has to be
parsed to pull out the information needed to read the data. In other
words, this file has to be handled in a completely different way from
"standard" GeoTiff files, which use GeoKeys to obtain information.

I think it would be easier to write a routine that reads these specific
files than it would be to make old code behave in an unnatural way.

Cheers,

David
--
David Fanning, Ph.D.
Fanning Software Consulting, Inc.