
Subject: Re: Converting distance to degrees
Posted by [Klemen](#) on Fri, 17 Jun 2011 08:44:47 GMT
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Ashely,

the data you have are projected and transformation into another projection is not as easy as it seems. You have to first find out, in which map projections are your data. Check metadata, ask the data creator... Perhaps such a link might help:

<http://egsc.usgs.gov/isb/pubs/MapProjections/projections.htm> I

Then:

1. Use MAP_PROJ_INIT to define a structure for definition of your map projection.
2. Transform the location of your data from Chartezian XY into ellipsoid LON LAT coordinates using MAP_PROJ_INVERSE.
As your original data are quite detailed comparing to the results you might think of aggregating your original data into e.g. 25 km grid first. This will speed up the gridding in step 3 significantly.
3. Grid the data using TRIANGULATE and GRIDDATA. In both cases use / SPHERE option.

See also this discussion:

http://groups.google.com/group/comp.lang.idl-pvwave/browse_thread/thread/688e9587fa29ecb7/2f7820d787d6047f?hl=en&q=#2f7820d787d6047f

Cheers, Klemen
