
Subject: Re: Map Projection Knowledge Growing Exponentially

Posted by [mattie](#) on Fri, 28 Apr 2006 19:55:29 GMT

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David Fanning <davidf@dfanning.com> writes:

> But I wonder if anyone has an image data set to share that
> has associated lat/lon values for each pixel? Or, at least,
> a pointer to a location where I might download such a data
> set.

Here's two data sets for you.:

AMSR-E/Aqua L2B Surface Soil Moisture, Ancillary Parm's, & QC EASE-Grids

http://nsidc.org/data/docs/daac/ae_land_l2b_soil_moisture.gd.html

AMSR-E/Aqua Daily L3 Surface Soil Moisture, Interpretive Parm's, & QC
EASE-Grids

http://nsidc.org/data/docs/daac/ae_land3_l3_soil_moisture.gd.html

The data are in HDF-EOS format, so IDL supports that, it should be easy
to work with.

Of course I jest! The gctp projection hasn't been added to the gctp
library that IDL uses (or more likely, the projection hasn't been
updated into the map_* routines) , so it might be a little harder to
use:

gctp proj code:

GCTP_CEA (97) Cylindrical Equal-Area (for EASE grid with corners in
meters)**

But if you're just looking for a lat, lon, and a data grid with
projection information we can do that for a different gctp projection:

The Northern Hemisphere EASE-Grid Weekly Snow Cover and Sea Ice Extent
Version 3 is Available here: *under the "Access Data" link*

<http://nsidc.org/data/nsidc-0046.html>

After the link the data is in the directory 'data'. And under 'Tools'
there are files of the lat and lons of the grid cell centers. (LSB is
least significant byte)

File: NLLATLSB.GZ
File: NLLATMSB.GZ
File: NLLONLSB.GZ
File: NLLONMSB.GZ

And there's a page about the projection/grid EASE: All About EASE.

http://nsidc.org/data/ease/ease_grid.html

Have fun.

Matt

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