Subject: Re: Map projection in ENVI Posted by David Fanning on Tue, 08 Jun 2010 12:44:41 GMT View Forum Message <> Reply to Message

kamal writes:

- > I would like to reproject the NCEP/NCAR Reanalysis I/surface flux 1.8
- > deg resolution datasets of air temperature (2m-daily), pressure
- > (daily) and wind (U/V-daily) from the geographic lat/lon to the Polar
- > Stereographic projection using ENVI and the spatial resolution should
- > be brought to either 1 km or 6.25 km. I tried by using the Convert map
- > projection tool in ENVI but I am not getting the desired final result.

What kind of result did you get?

Cheers,

David

--

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

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Map projection in ENVI Posted by kamal on Wed, 09 Jun 2010 10:16:51 GMT View Forum Message <> Reply to Message

On Jun 8, 5:44 pm, David Fanning <n...@dfanning.com> wrote:

- > kamal writes:
- >> I would like to reproject the NCEP/NCAR Reanalysis I/surface flux 1.8
- >> deg resolution datasets of air temperature (2m-daily), pressure
- >> (daily) and wind (U/V-daily) from the geographic lat/lon to the Polar
- >> Stereographic projection using ENVI and the spatial resolution should
- >> be brought to either 1 km or 6.25 km. I tried by using the Convert map
- >> projection tool in ENVI but I am not getting the desired final result.
- >
- > What kind of result did you get?
- >
- > Cheers,
- >
- > David
- >
- > --

- > David Fanning, Ph.D.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:http://www.dfanning.com/
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Some distorted type of image. The lat/lon values and the parameter values are all assigned to each pixel but the image seems to be, I don't know, not correct.

Is it possible to regrid the coarse resolution to a higher resolution using some interpolation method in ENVI (not in IDL!) and also change the map projection?

Kamal

Subject: Re: Map projection in ENVI Posted by David Fanning on Wed, 09 Jun 2010 11:04:49 GMT View Forum Message <> Reply to Message

kamal writes:

- > Some distorted type of image. The lat/lon values and the parameter
- > values are all assigned to each pixel but the image seems to be, I
- > don't know, not correct.

There is probably much in ENVI to improve, but personally, I feel great confidence in their map projection software. At least in my case, every time I have tried to confirm a result that seemed "strange" to me, the problem turned out to be a faulty assumption or incomplete knowledge on my part, rather than a problem with the software.

- > Is it possible to regrid the coarse resolution to a higher resolution
- > using some interpolation method in ENVI (not in IDL!) and also change
- > the map projection?

Regrid to a higher resolution using what information? If you start with low resolution data, producing high resolution output is imaginary art, not science. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Map projection in ENVI Posted by kamal on Fri, 11 Jun 2010 15:22:30 GMT View Forum Message <> Reply to Message

On Jun 9, 4:04 pm, David Fanning <n...@dfanning.com> wrote:

- > There is probably much in ENVI to improve, but
- > personally, I feel great confidence in their map
- > projection software. At least in my case, every
- > time I have tried to confirm a result that seemed
- > "strange" to me, the problem turned out to be a
- > faulty assumption or incomplete knowledge on my
- > part, rather than a problem with the software.

>

- > Regrid to a higher resolution using what information?
- > If you start with low resolution data, producing high
- > resolution output is imaginary art, not science. :-)

>

> Cheers,

>

> David

> -

- > David Fanning, Ph.D.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:http://www.dfanning.com/
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thank you so much for your reply David. The original data is in ~1.8X1.8 degree spatial resolution in geographic lat/lon projection. I want to reproject it into polar stereographic projection (North) so that I can compare it with the AMSR-E L3 gridded data (which are in polar stereographic projection).