Posted by Libo Wang on Sat, 31 Oct 2009 17:00:47 GMT View Forum Message <> Reply to Message On Oct 31, 12:09 pm, David Fanning <n...@dfanning.com> wrote: > Libo Wang writes: >> Hi, I used the following code to set up a stereographic projection map >> and overplot NCEP pressure field on it: >> MAP SET,/stereographic, 60, -105,color=grey,limit=[30,-180,80.0,-10],/ >> continents,/isotropic >> levels = 16 >> step=4 >> userLevels = IndGen(levels) * step + 120 >> Contour, data,lon,lat,C_Colors=black,Levels=userLevels, /overplot >> Contour, data,lon,lat,/Overplot, >> Levels=userLevels.c colors=black.c charthick=2.\$ >> max value=200,min value=120,/Follow >> However, I got weird contour lines, which you could take a look at the >> following link: >> http://picasaweb.google.com/libowa/DropBox?feat=directlink >> Could you point out what was wrong in my codes? How could I get smooth >> contour lines? > > Is this an aesthetic problem or a science problem? > If it is an aesthetic problem, that NCEP data is fairly low-resolution. > You could try CONGRIDing it to a larger size, using interpolation, > before contouring it. Or, you could just try smoothing your data > before you contour it. > 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.")- Hide quoted text -> - Show quoted text -

Thanks, David. I've read helpful tips in your website. It is actually a bit of both aesthetic problem and a science problem! A meteorologist would probably tell me that my map is not what a standard pressure

Subject: Re: weird contour lines

field plot should look like!

I tried to expand my data from 144*37 to 1440*370 using cubic=-0.5 in Congrid, the contour map did improved in some parts, but some parts got worse:

http://picasaweb.google.com/lh/photo/pbT1Ftfbx0nqS9O3uw0tGg? feat=directlink

The NCEP data is low in resolution: 2.5 degree spacing. What else could I try?