
Subject: Re: contour over a map and 180 degrees off or problems with dateline
Posted by [David Fanning](#) on Wed, 02 May 2007 19:32:17 GMT

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teich@atmsci.msrc.sunysb.edu writes:

> If I keep the lon array as is (i.e., -177.5, ..., +177.5) and use your
> field=Shift(field,36,0) then everything looks in the right location
> and there is no problem at the dateline. Although this fixed the
> problem, what if I had an odd number of elements for array lon? Since
> I compare plots visually, it may be important to get the exact
> locations. Would you suggest this type of fix (using Shift) for every
> contour of this type?

Well, I don't know. These kinds of things always confuse me. :-)

It seems to me one of two things has to be wrong. (1) Your longitude vector does really describe the physical locations of your data (i.e., the left edge of your array is not at -177.5 degrees of longitude), or (2) the map projection is not centered with respect to the data (i.e., the center of the data and the center of the map are at two different places).

I think if you resolve this problem, then shifting, which I would only use as a last resort, would probably go away.

Cheers,

David

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

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