Subject: contour boundaries

Posted by onlyremy on Thu, 21 Jun 2001 15:42:11 GMT

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I am having troubles with a contouring program in IDL. I have gridded in situ measurements taken from stations throughout the Gulf of Maine. I am contouring the data over a map of the Gulf of Maine. In order to take into consideration where the land is, the gridded in situ data was changed to NaN where there was land. The problem that I am having is that the contouring program is not recognizing the boundaries of the dataset. There are contouring lines going through the land, eventhough the data its self are NaNs. But the kicker is that there is a data boundary that does not border the coast (the stations end but not due to land construct) that is recognized. The contour lines stop like they should. Any ideas what is going on?

I would appreciate any suggestions!

Thanks,

Remy

Subject: Re: contour boundaries

Posted by btt on Mon, 25 Jun 2001 13:15:44 GMT

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Funny, I have had the same problem with the Gulf of Maine! The GOM's long axis runs NE-SW but the data coords are NW and EW. It's a diamond hole and square peg problem. My solution is to prevent the data from being displayed by capturing it in the PATH_XY and PATH_INFO keywords.

CONTOUR, Data, Path_XY = XY, Path_INFO = Info, /Path_Data_Coords, Levels = [...]

Then filter the XY values by location (I don't recall what parameters I used; might have been a straight line running along the coast.) Use the PLOTS command to then display the contour. You will lose the contour labeling when you do it this way. You can use linestyle/color to distinguish different contours.

Ben

Remy Luerssen wrote:

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- > measurements taken from stations throughout the Gulf of Maine. I am contouring
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>

> I would appreciate any suggestions!

> Thanks,

>

> Remy

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