
Subject: Contouring data over maps

Posted by [Callie Hall](#) on Mon, 03 Aug 1998 07:00:00 GMT

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Hello,

I am currently developing an application in IDL that needs to draw contour plots

over a map. My data is irregularly gridded, and very sparse. What I need to know

is how to make IDL respect the land/sea continental boundaries when I plot my

interpolated data. I can only currently clip my contour plot to a latitude/longitude range..

I need to know how to make my contour conform to the coastlines.

Please help,

Jason Hasenbuhler

hasenbuh@rex.cs.tulane.edu

Subject: Re: Contouring data over maps

Posted by [mgfreeman](#) on Mon, 10 Aug 1998 07:00:00 GMT

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Hi Jason

Apologies if something similar appears, this is the first time I've tried to post and I don't think it worked on Friday (and of course I forgot to keep a copy so I'm writing this again!).

About 2 years ago I did something very similar, contouring temperature and salinity in the Eastern Mediterranean. My gridded dataset had Cyprus sat right in the middle of the data. To stop contour extrapolating/interpolating across land I assigned NaN (IEE not a number) values to the grid points on land. This stopped contour lines across land and also stopped any data 'slant' due to using 0's (or any other 'fudge' value). This method has one drawback that you can't fill the contours as they have to be closed.

I wrote a simple point and click program to assign the NaN values. If you like I can try and dig out the code (email me!).

Hope this helps

Mark Freeman

In article <35C7589E.C37A0F1C@rex.cs.tulane.edu>,
hasenbuh@rex.cs.tulane.edu wrote:

> Hmm

-----== Posted via Deja News, The Leader in Internet Discussion ==-----

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