Subject: Contouring of data in polar coordinates
Posted by jennifer on Mon, 30 Jan 1995 21:24:29 GMT
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Can someone point me to a method for creating a polar plot with contours?
I imagine there are two steps to this problem:
1) interpolate irregularly spaced data expressed in polar coordinates to
obtain a grid of data
2) contour these data on a polar plot.

Any help would be appreciated.

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Subject: Re: Contouring of data in polar coordinates
Posted by wmc on Thu, 02 Feb 1995 14:44:47 GMT
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In article epd@news.arc.nasa.gov, jennifer@gaia.arc.nasa.gov (Jennifer Dungan) writes:
> Can someone point me to a method for creating a polar plot with contours?
> I imagine there are two steps to this problem:
> 1) interpolate irregularly spaced data expressed in polar coordinates to
> obtain a grid of data
> 2) contour these data on a polar plot.

If you have IDL rather than PV-WAVE you can use MAP_SET to produce polar
stereographic plots. This is MUCH faster than interpolating.

- WIlliam.

Subject: Re: Contouring of data in polar coordinates
Posted by bowman on Thu, 02 Feb 1995 14:49:14 GMT
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In article <3gjled$epd@news.arc.nasa.gov>, jennifer@gaia.arc.nasa.gov
(Jennifer Dungan) wrote:

> Can someone point me to a method for creating a polar plot with contours?
> I imagine there are two steps to this problem:
> 1) interpolate irregularly spaced data expressed in polar coordinates to
> obtain a grid of data
> 2) contour these data on a polar plot.

If your data are in polar coordinates (i.e. r and theta), which is equivalent to co-latitude and longitude on an azimuthal projection, just use MAPSET and the AZIMUTHAL projection.

Ken Bowman

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