Subject: Re: Spherical Contour Plotting
Posted by k-bowman on Wed, 09 Jan 2002 21:26:38 GMT

In article <3C3C6E5D.E082A351@students.wisc.edu>, Adam Bayliss
<rabayliss@students.wisc.edu> wrote:

> Hi,
> I'd like take a 2d array (containing a surface component of a vector)
> and make a contour plot on a sphere. So basically I'd like to take the
> results of the "contour" procedure, and project this graph onto a
> sphere. Any ideas would be appreciated.

If the finished "thing" (I avoid the word object) is to be 2-D, try the
SATELLITE projection in MAP_SET.

If you want a 3-D "thing", you could do a CYLINDRICAL EQUIDISTANT plot
with MAP_SET. CONTOUR will return the coordinates of the isopleths
(PATH_INFO, PATH_XY). Then transform the longitude-latitude coordinates
into 3-D space and use direct or object graphics to display the resulting
lines.

Ken