Subject: Re: CONTOUR and automatic gridding of irregularly spaced data
Posted by Karlo Janos on Tue, 25 Jun 2013 07:12:29 GMT
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> Let's just say you are not the first to be thrown upon the shoals of
> disappointment. ;-)
>
> Cheers,
>
> David
>
> P.S. What's wrong with gridding the data yourself? God knows, if you do,
> it is one less thing to go wrong.
>

Thanks for your encouraging reply. ;-)
Well, what I _really_ want is a cell filled CONTOUR plot of the coloured Voronoi cells which result from the (manual or automatic) gridding.
Apparently I have failed to use QHULL properly.

The following code avoids the gap between -180° and +180°:

```
rresult = SPH_SCAT( lons, lats, data, BOUNDS=[-180., -90., 180., 90.],
GS=[360./N_lons, 180./N_lats] )

cc = CONTOUR( rresult $
   , DINDGEN(N_lons+1)/N_lons*360-180 $
   , DINDGEN(N_lats+1)/N_lats*180-90  $
   , /FILL $
   , GRID_UNITS=2 $
   )
```

But the grid is spaced equally in longitudes and latitudes. It is not a real plot of the Voronoi cells based on the data coordinates.

Can you suggest an approach?

Thanks and regards

Karlo