
Subject: difference between iconour and contour?

Posted by [EArnold](#) on Thu, 12 Oct 2006 13:49:52 GMT

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hello,

I have a problem with strange artifacts when i use iconour and a map projection. The problem occurs only when i use iconour, not when i use contour.

I would like to make a contour plot with the north pole as center of the map. The data and coordinates are stored in three fields, f_data(i,j), f_longitude(i,j), f_latitude(i,j).

First I set the projection via
map_set, /stereographic, 90, 0, /isotropic, limit = [0, -180, 90, 180],
/grid, /continents, latdel=20, lonel=20

followed by the contour-plot
contour, f_data, f_longitude, f_latitude, /fill, /over

The result is correct, as expected. The field is displayed, including the pole.

Then I try the same using iconour instead of contour. I choose the 'polar stereographic'-projection and import the fields f_data, f_longitude, f_latitude.

Via Insert->Visualization and setting Grid units to 'Degree' and Fill contours to 'True' my f_data is layed over the pole, but there are strange artefacts around the pole.

I tried to isolate the problem and used different f_data. Some f_data that are displayed proper and some are not - but in contour they are all displayed correctly.

So i think that contour and iconour handle the input fields in a different way.

What can I do to get rid of the artefacts?

Thanks

PS: i use IDL 6.3 for Windows
