Subject: Jagged edges in POLAR_CONTOUR?
Posted by John Coxon on Wed, 15 Feb 2012 18:34:18 GMT
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Hi all,

I am using POLAR_CONTOUR to plot some data, using three 1-D arrays (the way my data files are structured makes it easier to do it that way). It seems to be working fine, but there are jagged edges in places I wasn't expecting them.

The plot is available here (Dropbox link): http://db.tt/C65qMrGQ

The code I'm using to plot it is:
polar_contour,current,mltrad,colat,xrange = [-30,30],/xstyle,xtitle = 'Colatitude (MLT = 18 (-ve) & 6 (+ve))',yrange = [-30,30],/ystyle,ytitle = 'Colatitude (MLT = 0 (-ve) & 12 (+ve))',levels = indgen(ncontours) * 0.2 - 1.0,/fill,c_col = indgen(ncontours) + 1,position = [0.08,0.3,0.48,0.86],title = 'Current density in northern hemisphere'

mltrad is an array containing magnetic local times - 24 values between 0 and 23 that are converted into radians - and as such the plot has 24 'spokes'.

For an example of the jagged edges to which I'm referring, on the far right (0 on the y-axis) there's a region of 0.2 muA/m^2 that has three spikes on top (for want of more specific/technical terminology). I don't understand why they are there, since I don't think the data is a fine enough resolution to result in that kind of feature.

Can anyone shed any light on this? Any help gratefully appreciated!

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John Coxon