Subject: Re: Trouble with IDL 5.0.2 (filled contours) unsolved?
Posted by hcp on Wed, 04 Mar 1998 08:00:00 GMT
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In article <34FBFD71.3F54@dmi.dk>, Mikael Barfred <mb@dmi.dk> writes:
|> Mikael Barfred wrote:
|> >
|> > Hello,
|> >
|> > I have searched dejanews for articles in this newsgroup regarding
|> > the filled contour problems in IDL 5.0.2. I got a handfull of
|> > recent articles on this, indicating that I am not the only
|> > frustrated IDL 5.0.2 user, but none of them had a solution
|> > or even an explanation to the problem, so I will try to raise
|> > the question again:
|> > [... SNIP! ...]

[The snipped stuff is that the cell_fill keyword causes your plot to degenerate
into a mess of flashing triangles]

|> Oops! Looking further on the net, I came across:
|>
|> http://www.dfanning.com/idl5_info/cell_fill.html
|>
|> which seems to indicate that the problem has already been raised
|> to RSI, and a response is pending.

When I brought this up a few months ago, RSI supplied a work-around.
The work-around is to use this short wrapper function to contour instead of
contour itself.

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.....................................................
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
PRO CONTOUR_CELL, z, x, y, _EXTRA=e
; This program was supplied by RSI as a fix for the bugs in the
; cell_fill algorithm of the contour
; routine. contour_cell,data,xgrid,ygrid,/cell_fill will work where
; contour ,data,xgrid,ygrid,/cell_fill will not

nx = n_elements(x)              ;Divide a rectangular grid into
                          ;triangles
ny = n_elements(y)
tr = lonarr(6, nx-1, ny-1, /NOZERO)
for iy=0, ny-2 do for ix=0,nx-2 do $ ;Make the triangles
  tr(0, ix, iy) = [0, 1, nx+1, 0, nx+1, nx] + (ix + iy*nx)
                          ;2/cell
CONTOUR, z, x # replicate(1,ny), replicate(1,nx) # y, $
  TRIANGULATION=tr, _EXTRA=e
end
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Hugh

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