Subject: Problems with /cell_fill
Posted by polcher on Wed, 02 Nov 1994 14:31:04 GMT

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Hi

I am plotting a data set which covers the globe (+-177, +- 79) with IDL using the option
/cell_fill. It works very well for global projections (Mercator, Mollweide, Cylindrical)
when Greenwhich is in the middle of the picture.

When I rotate the globe in order to have another longitude in the middle the eastern part of
the map shows a problem. The filled contours are replaced by horizontal lines, this does not
happen for isolines !!! It seems to me that IDL has problems joining the data between +180
-180, the "periodicity" is not properly done. (A simple example follows)

A similar problem appears with projection which do not show the entire globe
(Stereographic, Orthographic, ...). The filled contours extend beyond the borders of the
globe.

Is there an easy patch to this problem ?

Sorry if this problem has already been posted in this news group.

Thanks for any help

 Jan

EXAMPLE:

```
pro test, lon=sellon

iim=64
jjm=50

lon=fltarr(iim,jjm)
lat=fltarr(iim,jjm)

FOR i=0,iim-1 DO lat(i,*)=-(findgen(jjm)/(jjm-1)*180-90)
FOR i=0,jjm-1 DO lon(*,i)=findgen(iim)/(iim-1)*360-180

car=fltarr(iim,jjm)

car=sin(findgen(iim,jjm))

map_set,0,sellon,0, /cyl, grid=1, continents=1

loadct, 12
contour, car, lon, lat , nlevels=10, /cell_fill, /overplot
```

```
map_continents
end
```

When we do "test, lon=0" it works and for "test, lon=120" it fails.
Or if /cyl is replaced by /stere it fails also.

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