Subject: Re: Map_grid options
Posted by Kenneth P. Bowman on Mon, 04 Oct 2004 00:15:40 GMT
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In article <dcb38451.0410031406.3afdd995@posting.google.com>,
jcesq@terra.com.br (Jeferson E.) wrote:

> I'm using /box_axes option in the map_grid procedure to draw axes
> around my images. However, the text labels (lats and longs) are too
> near to the axes. How can I move alway these labels ?? The IDL's guide
> doesn't show any option to do that.

My advice is to just accept that IDL does almost-publication-quality
graphics. ;-)

Open the Postscript file in Illustrator and fix all the things you don't
like.

Ken Bowman

Subject: Re: Map_grid options
Posted by jcesq on Mon, 04 Oct 2004 17:50:46 GMT
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I have almost a thousand compositions to be done. I need some
automactical procedure using map_grid and box_axes, or anything
simlilar :-I

Any suggsetions welcome

Jeferson

"Kenneth P. Bowman" <kpb@null.com> wrote in message
news:<kpb-C357FF.19154003102004@news.tamu.edu>...
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> jcesq@terra.com.br (Jeferson E.) wrote:
>
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> like.

>
> Ken Bowman

Subject: Re: Map_grid options
Posted by K. Bowman on Mon, 04 Oct 2004 19:27:55 GMT
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In article <dcb38451.0410040950.70d92a62@posting.google.com>,
jcesq@terra.com.br (Jeferson E.) wrote:

> I have almost a thousand compositions to be done. I need some
> automactical procedure using map_grid and box_axes, or anything
> simlilar :-I

Ah, in that case, don't use BOX_AXES. Also, don't use the automatic labels in MAP_GRID. Draw the labels yourself with XYOUTS. (I also find that for cylindrical equidistant projections I need to draw the parallels and meridians myself (i.e., don't call MAP_GRID).)

Unfortunately, you have to set things up specifically for each map projection that you use.

Something like this should get you started (dx and dy are fudge factors to get the label alignment right). This example is for a cylindrical equidistant global map.

Ken Bowman

```
PRO MAP_TEST1

title = 'Map Test 1'

!P.POSITION = [0.1, 0.1, 0.9, 0.9]
MAP_SET, 0, 0, /CYLINDRICAL, LIMIT = [-90, -180, 90, 180], /NOBORDER
MAP_CONTINENTS

ch_size = CONVERT_COORD(!D.X_CH_SIZE, !D.Y_CH_SIZE, /DEVICE, /TO_NORMAL)
dx = ch_size(0)
dy = ch_size(1)

xy = CONVERT_COORD(0.0, 90.0, /DATA, /TO_NORMAL)
XYOUTS, xy(0), xy(1)+1.5*dy, title, /NORMAL, ALIGNMENT = 0.5

xy0 = CONVERT_COORD(-180.0, -90.0, /DATA, /TO_NORMAL)
xy1 = CONVERT_COORD( 180.0,  90.0, /DATA, /TO_NORMAL)
```

```
FOR xx = -180, 180, 90 DO BEGIN
  xy     = CONVERT_COORD(FLOAT(xx), -90.0, /DATA, /TO_NORMAL)
  PLOTS, [xy[0], xy[0]], [xy0[1], xy1[1]], PSYM = -3, /NORMAL
  xlabel = STRTRIM(STRING(xx), 2)
  XYOUTS, xy(0),  xy(1)-2.0*dy, xlabel, /NORMAL, ALIGNMENT = 0.5
ENDFOR

FOR yy = -90, 90, 30 DO BEGIN
  xy     = CONVERT_COORD(-180.0, FLOAT(yy), /DATA, /TO_NORMAL)
  PLOTS, [xy0[0], xy1[0]], [xy[1], xy[1]], PSYM = -3, /NORMAL
  ylabel = STRTRIM(STRING(yy), 2)
  XYOUTS, xy(0)-dx,  xy(1)-dy/2.0, ylabel, /NORMAL, ALIGNMENT = 1.0
ENDFOR

END
```

Subject: Re: Map_grid options
Posted by jcesq on Tue, 05 Oct 2004 11:18:13 GMT
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OK! I'll try that!!

Thanks,
J.

Kenneth Bowman <k-bowman@null.tamu.edu> wrote in message
news:<k-bowman-7D66EA.14275504102004@news.tamu.edu>...
> In article <dcb38451.0410040950.70d92a62@posting.google.com>,
> jcesq@terra.com.br (Jeferson E.) wrote:
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```
>  Ken Bowman
>
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>
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>  dy = ch_size(1)
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>  xy = CONVERT_COORD(0.0, 90.0, /DATA, /TO_NORMAL)
>  XYOUTS, xy(0), xy(1)+1.5*dy, title, /NORMAL, ALIGNMENT = 0.5
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>     xlabel = STRTRIM(STRING(xx), 2)
>     XYOUTS, xy(0),  xy(1)-2.0*dy, xlabel, /NORMAL, ALIGNMENT = 0.5
>  ENDFOR
>
>  FOR yy = -90, 90, 30 DO BEGIN
>     xy     = CONVERT_COORD(-180.0, FLOAT(yy), /DATA, /TO_NORMAL)
>     PLOTS, [xy0[0], xy1[0]], [xy[1], xy[1]], PSYM = -3, /NORMAL
>     ylabel = STRTRIM(STRING(yy), 2)
>     XYOUTS, xy(0)-dx,  xy(1)-dy/2.0, ylabel, /NORMAL, ALIGNMENT = 1.0
>  ENDFOR
>
>  END
```