
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:
>
>> I have almost a thousand compositions to be done. I need some
>> automactical procedure using map_grid and box_axes, or anything
>> simlilar :-l
>
> 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]], [xy[1], xy[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, [xy[0][0], xy[1][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
```
