
Subject: Re: google earth projections

Posted by [R.G. Stockwell](#) on Tue, 25 Nov 2008 17:15:26 GMT

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<voorlandt@gmail.com> wrote in message

news:42eaa481-0a65-42e3-a5fd-4aeedb42aeaf@r40g2000yqj.google groups.com...

> Hi,

>

> I have been trying to overlay an IDL image on google earth, and it
> worked pretty well. One thing that would be really useful is to have
> IDL do a contour plot without introducing an extra border to the image
> (so I can directly import it in google earth). I have tried setting
> the position and region variable to [0,0,1,1], but to no avail. The
> extra border I am talking about can be seen here:

>

> http://www.dfanning.com/color_tips/contour_fill_2.jpg

>

> I am referring to the very thin black border between the image and the
> thin white boarder (not the thick black border).

>

> Here is a minimal example

> DEVICE, DECOMPOSED=0 & window,1,xsize=5000,ysize=2500

> MAP_SET, /Cylindrical, LIMIT = [-90, -180, 90, 180], Position=[0, 0,

> 1, 1]

> contour, zzzz, lond,latd, /OVERPLOT, Position=[0, 0, 1, 1]

> MAP_CONTINENTS, Position=[0, 0, 1, 1] & Map_Grid, Position=[0, 0, 1,

> 1]

>

>

> Any help much appreciated!

>

> Voorlandt

I haven't done that explicitly, but here a blurb of code i used to make
google earth plots (with transparency).

```
set_plot,'z',/copy
```

```
device,set_resolution = [ 2000,1000]
```

```
; plot data right to the edges, for import to goog earth
```

```
saveregion = !P.region
```

```
!P.region = [0,0,1,1]
```

```
saveposition = !P.position
```

```
!P.position = [0,0,1,1]
```

```
savexmargin = !x.margin
```

```
!x.margin = [0,0]
```

```

mapStruct = MAP_PROJ_INIT(117, LIMIT=limit, $
    CENTER_LONGITUDE=180)

PLOT, mapStruct.uv_box[[0,2]],mapStruct.uv_box[[1,3]] , $
/NODATA, ISOTROPIC=0, XSTYLE=5, YSTYLE=5,$
xtickname = blank_string(10),ytickname=blank_string(10),$
position = [0,0,1,1]

; NOTE: d = the data structure
result = MAP_PROJ_FORWARD(d.lon(wg(i)),d.lat(wg(i)),map_structure =
mapstruct)
x = result[0,*]
y = result[1,*]
plots,x,y,psym=3,/data,color = 100

create_png_transparent, outfile
print,'creating ',outfile
!P.region=saveregion ; restore previous region
!P.position = saveposition
!x.margin = savexmargin

```

where the png routine is just:

```

pro create_png_transparent,filename

if n_params() eq 0 then filename = 'idl_dump.png'
; capture the screen image
screendump = tvrd()
t = BytArr(256) + 255B
t[255] = 0
t[0] = 0 ; temp version here, for the swaths.
TVLCT, R, G, B, /GET
; write the screendump to a gif file
write_png,filename,screendump,r,g,b,transparent=t

end

```
