
Subject: Postscript output

Posted by [Richard Townsend](#) on Wed, 02 Oct 1996 07:00:00 GMT

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I have a problem with postscript output that I'm hoping someone will be able to help me with. I have some IDL arrays of dimension N x N which are latitude/longitude maps of some function (a spherical harmonic) over the surface of a sphere. I want to display these maps wrapped over the sphere in an orthographic projection. The commands I am using are something of the form:

```
set_plot,'ps'  
device,/encapsulated,bits_per_pixel=8,xsize=5,ysize=5,/inches
```

```
!p.multi=[0,2,2]
```

```
map_set,/orthographic,/noborder,/advance,/isotropic,45,0  
mapped=map_patch(bytescl(array1),xstart=x0,ystart=y0, $  
                xsize=xs,ysize=ys,missing=255)  
tv,k,x0,y0,xsize=xs,ysize=ys  
map_grid,color=255
```

```
map_set,/orthographic,/noborder,/advance,/isotropic,45,0  
mapped=map_patch(bytescl(array2),xstart=x0,ystart=y0, $  
                xsize=xs,ysize=ys,missing=255)  
tv,mapped,x0,y0,xsize=xs,ysize=ys  
map_grid,color=255
```

```
map_set,/orthographic,/noborder,/advance,/isotropic,45,0  
mapped=map_patch(bytescl(array3),xstart=x0,ystart=y0, $  
                xsize=xs,ysize=ys,missing=255)  
tv,mapped,x0,y0,xsize=xs,ysize=ys  
map_grid,color=255
```

```
map_set,/orthographic,/noborder,/advance,/isotropic,45,0  
mapped=map_patch(bytescl(array4),xstart=x0,ystart=y0, $  
                xsize=xs,ysize=ys,missing=255)  
tv,mapped,x0,y0,xsize=xs,ysize=ys  
map_grid,color=255
```

```
device,/close
```

...where array1-array4 are the data arrays (as you can see, I want to plot four separate arrays). My problem is that the boundaries of the globes which I plot are very jagged, and increasing the size N of the arrays does not cure this. How can I increase the postscript resolution and get rid of the jagged edges?

Thanks in advance,

Rich

```
+-----+-----+
| Richard Townsend      |      |
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| University College London | frog jumps in - |
| Gower Street          | plop"      |
| London WC1E 6BT        |      |
| (0171) 419 3410        |      Basho |
+-----+-----+
```
