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Subject: Re: Spherical Surface Plot w/ fsc\_surface from David Fanning (:  
Posted by [humanumbrella](#) on Mon, 21 Jul 2008 13:46:44 GMT  
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Hello everyone,

Sorry I have not responded for a couple of days, I've been up in Washington DC on vacation, hehe.

Anyway, I see the clipping which David references on my machine using IDL7.0.

Here's the screen -> <http://tinyurl.com/696ro2>

Also -- for others who follow, here's some help, not with fsc\_Surface in particular, but with surface plots, for a way of displaying spherical data, though the author (who had correspondence with Dr. Fanning, hehe) is experiencing a problem with a hole in the plot.

```
ang=transpose(2*!PI*findgen(64)/63)
print, ang
n=size(ang, /N_ELEMENTS )
print, n
ones=fltarr(n,1)+1
theta_a=(ang##ones)
print, size(theta_a)
;ang2=[0:.05:pi+.05]'-pi/2; (this is what lused in Matlab)
ang2=transpose(!PI*findgen(n)/(n-1)-!PI/2) ; (should be roughly
equivalent to above)
theta_e=transpose(ang2##ones)
rcart=1+cos(!pi/2-theta_e)
```

```
theta_a_1d=reform(theta_a,1,n*n)
print, size(theta_a_1d)
theta_e_1d=reform(theta_e,1,n*n)
print, size(theta_e_1d)
rcart_1d=reform(rcart,1,n*n)
print, size(rcart_1d)
sph=[theta_a_1d,theta_e_1d,rcart_1d]
```

```
rectc=cv_coord(from_sphere=sph, /to_rect)
x_1d=rectc(0,*)
y_1d=rectc(1,*)
z_1d=rectc(2,*)
x=reform(x_1d,n,n)
y=reform(y_1d,n,n)
```

```
z=reform(z_1d,n,n)
print, size(z)
```

```
isurface, z,x,y
xplot3d, x,y,z
```

I think this is well enough to get me on my way today!  
Thanks everyone!  
Cheers,  
--Justin

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