

Hi everyone,

I am sure someone has the answer to this question:
I am trying to georegister an array using map_proj_inverse and map_proj_init in IDL 6.2. Since this is the first time I have done this, I have made some mistakes but I got IDL to execute the program without error. The problem is that the results look, well, wacky. The array is a Meteosat 8 image slice in satellite projection. My function looks like this:

```
*****  
FUNCTION xy2deg, data  
x = (size(data,/dimensions))[0]  
y = (size(data,/dimensions))[1]  
  
; map projection info  
map_info = MAP_PROJ_INIT('satellite',datum=8, $  
                        SPHERE_RADIUS=6378169.0, $  
                        HEIGHT=42164000.0,SAT_TILT=0, $  
                        CENTER_LONGITUDE=0,CENTER_LATITUDE=0, $  
                        ROTATION=0)  
indices = indgen(2,x*y)  
ind      = 0L  
for i=0, y-1 do begin  
  for j=0, x-1 do begin  
    indices[0,ind] = j  
    indices[1,ind] = i  
    ind = ind + 1  
  endfor  
endfor  
result = MAP_PROJ_INVERSE(indices,MAP_STRUCTURE=map_info)  
return, result  
end  
*****  
IDL> res = xy2deg(data)  
IDL> print, res(*,500) ; for example  
    0.0044915539    0.0000000  
IDL>  
IDL> print, size(res,/dimensions)  
    2    690000
```

Can anyone give me some tips here? I wonder if I need to know more about the region the array covers. I am not 100% sure on the SAT_TILT nor the ROTATION but these should not have such a large effect.

Sincerely,
Sheldon
