
Subject: Re: Image Warp Success?

Posted by [philipelson](#) on Tue, 09 Feb 2010 12:12:57 GMT

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> Has anyone ever had any success using MAP_PROJ_IMAGE to
> warp an image in one map projection into another map
> projection?

I did something similar to this recently, though not on the
projections that you want - in **theory** that shouldn't matter! You
will need to get hold of the image found at the URL below, but here is
the code:

```
URL = 'http://onearth.jpl.nasa.gov/wms.cgi?
request=GetMap&width=256&height=256&layers=modis &styles=&srs=EPSG:
4326&format=image/png&bbox=-30,0,70,80'
```

```
file = 'wms.cgi.png'
```

```
image = READ_IMAGE(file,r,g,b)
```

```
limit = [0, -30, 80, 70]
```

```
tileStruct = MAP_PROJ_INIT(8, LIMIT = limit)
mapStruct = MAP_PROJ_INIT('Lambert Azimuthal')
```

```
PLOT, mapStruct.uv_box[[0,2]], $
  mapStruct.uv_box[[1,3]], $
  /NoData, XSTYLE=5, YSTYLE=5
```

```
r = MAP_PROJ_IMAGE(reform(image[0,*,*]), tileStruct.uv_box,
MAP_STRUCTURE=mapStruct, IMAGE_STRUCTURE=tileStruct, /BILINEAR,
UVRANGE=uv)
g = MAP_PROJ_IMAGE(reform(image[1,*,*]), tileStruct.uv_box,
MAP_STRUCTURE=mapStruct, IMAGE_STRUCTURE=tileStruct, /BILINEAR,
UVRANGE=uv)
b = MAP_PROJ_IMAGE(reform(image[2,*,*]), tileStruct.uv_box,
MAP_STRUCTURE=mapStruct, IMAGE_STRUCTURE=tileStruct, /BILINEAR,
UVRANGE=uv, mask=mask)
```

```
top_right = CONVERT_COORD(uv[2], uv[3], /DATA, /TO_DEVICE)
bottom_left = CONVERT_COORD(uv[0], uv[1], /DATA, /TO_DEVICE)
img_size = (ceil(top_right - bottom_left))[0:1]
```

```
image = congrid([[[r]], [[g]], [[b]]], img_size[0], img_size[1], 3)
```

tv, image, uv[0], uv[1], true=3, /data

map_continents, MAP_STRUCTURE=mapStruct, /hires

map_grid, MAP_STRUCTURE=mapStruct

I hope this is helpful,

Regards,

Philip
