
Subject: Re: Trouble plotting GSHHS shapefile
Posted by [timothyja123](#) on Tue, 25 Mar 2014 02:28:58 GMT
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ok so it turned out I needed to use map_proj_init() to use the correct projection but now how do I move the map so its centered in a different location like I can do with map_set?

I tried setting the center_longitude param but then again things are not plotted correctly.

```
pro plot_gshhs_shapefile
```

```
limit = [-90, 0, 90, 360]
POLON  = limit[1] + 0.5*(limit[3] - limit[1])
POLAT  = 0 ; default

junk = MAP_PROJ_INIT( 'Cylindrical', ELLIPSOID=24, CENTER_LONGITUDE=POLON)
uv_box = junk.uv_box
Plot, uv_box[[0, 2]], uv_box[[1, 3]], Position=[0.1,0.1,0.9,0.9], $
  /Nodata, XStyle=5, YStyle=5, /NoErase

Stack = Scope_Traceback(/Structure)
Filename = Stack[N_elements(Stack) - 2].Filename
If (Arg_Present(BaseName)) then Begin
  BaseName = File_BaseName(Filename)
EndIf
sourcePath = File_DirName(Filename, _Extra = Extra)

colour = '476A34'

file = filepath('GSHHS_i_L1.shp', root_dir=sourcePath,
subdir=['data','gshhg_shapefiles','GSHHS_shp','i'])

oGshhsShape = obj_new('idlffshape', file)

oGshhsShape -> getproperty, n_entities = num_ent

entities = oGshhsShape -> GetEntity(/All, /Attributes)

; Add the data from the shape file.
FOR i = 0L, N_Elements(entities)-1 do begin

  entity = entities[i]

  lats = reform((*entity.vertices))[1,*]
  lons = reform((*entity.vertices))[0,*]

  parts = *entity.parts
```

```
FOR iPart = 0, n_elements(parts)-1 DO BEGIN

    startVertIdx = parts[iPart]
    endVertIdx = (iPart EQ entity.n_parts-1) ? (N_ELEMENTS(lats)-1) : (parts[iPart+1]-1)

    part_lons = lons[startVertIdx:endVertIdx]
    part_lats = lats[startVertIdx:endVertIdx]

    result = MAP_PROJ_FORWARD(part_lons, part_lats, MAP_STRUCTURE=junk)

    polyfill, result, color=colour
    plots, result
ENDFOR
```

```
PTR_FREE, entity.vertices
PTR_FREE, entity.measure
PTR_FREE, entity.parts
PTR_FREE, entity.part_types
PTR_FREE, entity.attributes
```

```
ENDFOR
```

```
end
```
