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Subject: Trouble plotting GSHHS shapefile

Posted by [timothyja123](#) on Mon, 24 Mar 2014 21:46:17 GMT

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Hi Guys,

I'm having trouble plotting the GSHHS shapefile as found here:

<http://www.ngdc.noaa.gov/mgg/shorelines/data/gshhg/latest/>

I believe its go something to do with the way I'm using mapset but I cant figure it out basically my code seems to have trouble drawing the antarctic region. The result also means I cant use polyfill to colour the land as it just draws over everything due to the same issues with plot.

I've replaced my plotting code with a call to the coyote drawshapes routine but it has the same issue. Anyway here is my code any help is greatly appreaciated.

```
pro plot_gshhs_shapefile
```

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

```
map_set, POLAT, POLON, 0, /cylindrical, ISOTROPIC=1, LIMIT=limit, noborder=1, noerase=1,  
xmargin = 0, ymargin = 0
```

```
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'])
```

```
;drawshapes, file
```

```
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]

        ;polyfill, part_lons, part_lats, /data, color=colour
        plots, part_lons, part_lats, /data
    ENDFOR

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

    ENDFOR

end

```

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