
Subject: CGMAP_GSHHS: problem with land/water colors

Posted by [Matteo](#) on Wed, 14 Aug 2013 19:08:27 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi,

I noticed using CGMAP_GSHHS.PRO that if no ocean waters are present on a map, the LAND keyword for the land color does not work properly. Here's a snippet code that reproduces the problem (note that it is very similar to the one included in the examples of the CGMAP_GSHHS header). Just set your PATH to include the CGxxx routines and the correct directory for the gshhs.b file.

PRO test_gshhs

```
!path=[SET PATH HERE]
```

```
datafile='./gshhs_h.b' [SET PATH TO GSHHS_H.B HERE]
```

```
; include some water
```

```
map_limits = [29.,-95.,34.,-88]
```

```
; land only
```

```
;map_limits = [31.,-95.,34.,-88]
```

```
cgDisplay, 500, 350
```

```
pos = [0.1,0.1, 0.9, 0.8]
```

```
; set map projection
```

```
cgmap_set, limit = map_limits, /mercator, position=pos
```

```
; set a SKYBLUE background
```

```
cgColorfill, [pos[0], pos[0], pos[2], pos[2], pos[0]], $
```

```
    [pos[1], pos[3], pos[3], pos[1], pos[1]], $
```

```
    /Normal, Color='skyblue'
```

```
; issue CGMAP_GSHHS
```

```
cgMap_GSHHS, datafile, Fill=1, Level=4, Color='black', /Outline, $
```

```
    Land='tan', Water_color='skyblue', NoClip=0
```

```
; overdraw state borders
```

```
cgmap_set, limit = map_limits, /mercator, /continents, position=pos, $
```

```
    color='yellow', /usa, /noerase
```

```
END
```

Run the program first with map_limits set to include some Gulf waters around Louisiana (map_limits = [29.,-95.,34.,-88]). Then comment in the 'land only' option to exclude the water at the lower latitudes.

In the latter case I obtain a SKYBLUE rather than a TAN background, which is obviously wrong.

Furthermore, the WATER_COLOR keyword only works for inland water bodies, therefore CGCOLORFILL must be used to start from a SKYBLUE background.

You will also notice that having to reissue CGMAP_SET at the end to draw state borders (yellow) over everything leads to imperfect overlap with the black GSHHS shorelines, expected because of the different resolution.

I would appreciate if anybody could take a look at it. Apologies to David if I'm mistaking the correct usage of his routine.

m
