Subject: Re: cgmap_gshhs.pro minarea issue Posted by Takis.Velissariou on Fri, 22 Nov 2013 15:57:59 GMT

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On Thursday, November 21, 2013 7:09:28 PM UTC-5, pvelis...@fsu.edu wrote:
> Apparently, in the recent versions (>= 2.2) of gshhs database
>
> the units of the header.area changed from 1/10 km<sup>2</sup> to 1/10 m<sup>2</sup>.
> For cgmap gshhs to work properly the line:
>
   polygonArea = header.area * 0.1 (ok for gshhs < 2.2)
>
>
 should be changed to:
>
   polygonArea = header.area * 1.0e-7 (for gshhs >= 2.2)
David,
I saw the modified code in gmap_gshhs.pro and I think that:
 magnitude = ISHFT(f, -26) AND 1B
should change to:
 magnitude = ISHFT(f, -26) AND 255B
also
 polygonArea = header.area * 0.1 * 10^magnitude
should change to:
 polygonArea = header.area * 0.1 (for version lt 9)
and
 polygonArea = header.area * 10^(-magnitude) (for version gt 9)
```