Subject: Re: Bug in GSHHS Data Files? Posted by TonyL on Mon, 29 Dec 2008 02:11:30 GMT View Forum Message <> Reply to Message On Dec 25, 1:17 pm, David Fanning <n...@dfanning.com> wrote: > Folks, > I am a big fan of the GSHHS Coastline data set for drawing coastlines on map projections in IDL: > http://www.dfanning.com/map_tips/gshhs.html > But the other day I downloaded the latest version of the > software (gshhs_1.10.zip) from this page: > > ftp://ftp.soest.hawaii.edu/pwessel/gshhs/ > > When I used the intermediate resolution data file (gshhs_I.b), as > I did in the article above, my mapping program failed. You can find the mapping program here: > http://www.dfanning.com/programs/map gshhs shoreline.pro > > > As it happens, the header structure has changed for newer > versions of the GSHHS data. The old header was 40 bytes > in size; the new header is 32 bytes in size, with some of > the previous information packed into a single long integer. > So, I modified the header structure definition in my code to > conform to the new 32 byte header. But, unfortunately, not all > of my problems went away. :-(> I eventually discovered, after a GREAT deal of effort, that > while all the various resolutions of data in the zip file all > appear to use the new structure, the structure is still packed > into 40 bytes for *some* of the files, and into 32 bytes for > others. As you can imagine, this causes great difficulties reading the data. > > I've alerted the author, but have yet to hear from him. (Huh!? Am I the only person working on Christmas Eve!) > > So, anyway, I have updated the MAP_GHSSS_SHORELINE program > to use the new structure definition, but at the moment I

> read the gshhs_I.b file.

> to add 8 bytes of junk to the header to successfully

> can only use the program to read the gshhs_h.b file. I have

> It's a big of a dog's dish at the moment (to use one of

- > my favorite English expression). I hope to have it sorted
- > out soon.

> OK, I have to go wrap packages. Happy Holidays!

>

> Cheers,

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> David

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- > David Fanning, Ph.D.
- > Fanning Software Consulting, Inc.
- > Coyote's Guide to IDL Programming:http://www.dfanning.com/
- > Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks for checking that out, David. I use the GSHHS data a lot but tend to not update the data very often. Hopefully the data files will revert to their earlier formats in terms of header structure so that we don;t have to change any programs that use pre-existing readers.

Tony