climada module etopo 5 Dec 2014

https://github.com/davidnbresch/climada_module_etopo
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This module implements ETOPO, a global bathymetry (and topography) dataset[1]. It's a separate module, since topographic (and bathymetry) information can be used in various contexts – and since the dataset is quite large (ETOPO1 is 933 MB, ETOPO2 still 233 MB).

There is only one code, **`etopo_get`**

There are two datasets, ETOPO1 in high-res and ETOPO2 in mid-res. See http://www.ngdc.noaa.gov/mgg/global/global.html and the readme files in .../etopo/data. Since ETOPO1 is globally consistent, its use is highly recommended (use ETOPO2 only if e.g. running into memory issues)

If there is no ETOPO data file, means no file .../etopo/data/ETOPO1.nc, proceed as follows:

1. Download the file http://www.ngdc.noaa.gov/mgg/global/relief/ETOPO1/data/ice_surface/grid_registered/netcdf/ETOPO1_Ice_g_gmt4.grd.gz
2. Move it to .../etopo/data/
3. Unzip it (it might do so automatically, e.g. on a Mac)
4. Rename it to ETOPO1.nc
5. Test it using `etopo_get` without any argument

[1] It uses ETOPO dataset, see http://www.ngdc.noaa.gov/mgg/global/global.html and the readme files in .../tc_surge_raw/data/etopo