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]](#footnote-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 [↑](#footnote-ref-1)