The purpose of this tool is to create a raster that combines the topography and the bathymetry at a given time of reconstruction. This may be done differently depending on which files are available.

The fields marked with a ***** are mandatory.

I- Masks

Field - *General masks*
To perform the compilation you need a vector polygon layer with general masks covering the tectonic blocks.

II- Topography raster

Field - *Bedrock topography*
Enter the raster containing the topography.
You need the bedrock topography here. If you have data for the ice topography, you may perform an isostatic compensation using the "standard processing tools".

III- Bathymetry rasters

Field - *Reconstructed paleobathymetry*
Select your bathymetry file, already reconstructed to the desired time (eg. Mueller et al. 2008).
Field (optional) - *Ocean age*
If you have a present day ocean age raster, select it from the list. It must be rotated to its position at the time of reconstruction. You will have to specify the age of the reconstruction (Ma) in the corresponding field. This will be used to calculate the paleobathymetry.
Field (optional) - *Shallow sea bathymetry*
If you have a present day shallow bathymetry raster, enter it here (rotated to its position at the time of reconstruction). You will have to specify a maximum depth (in m) for the continental shelf.

Output

Specify the *Output file path*.
If there is not a path specified here, the file will be created in the temporary folder. The full path will be shown in the *Log* tab and the result will be loaded to the map canvas.
Warnings:
I) Please avoid using these characters in the file name, as they might cause processing errors: *( ) / - % $ @ #*

II) If this tool is used repetitively with no path specified, previous results will be overwritten. To avoid this, specify a different path (or file name) each time