Bathymetry Tutorial

Software Installation

The assumption is that you already have anaconda installed. If not, reach out to me so we can get this set up. The bathymetry code uses a number of python modules but they should be compatible across both Mac and Windows OS. The python modules are what I would call “core” modules so they should all be up-to-date and ready to pull.

We will start by opening a terminal/conda prompt and creating a new environment using:

conda create -n bathymetry python=3.9

where -n is the name of the env and we want to install python version 3.9. Follow the instructions to create the new env.

Now, activate (go to) the new env using:

conda activate bathymetry

This will take you from the base env into the new bathymetry env.

Next we will install the required python modules. This will use modukes that are maintained in the ‘conda-forge’ cloud. You can learn more about this here: https://conda-forge.org.

conda install -c conda-forge h5py numpy matplotlib pyproj utm geopandas netcdf4 parallel

Follow the prompts and install these packages.

In the code folder in this tutorial is a test\_env.py file. Run this. It should produce no error messages. It may take a moment to run as it needs to load the python modules for the first time since install. Run it by navigating to the file or click-and-dragging it into your terminal/prompt.

python 1\_test\_env.py