Configuring the simulations

IOconditions.txt (initfiles)
the climatic input
the run name
Restart file

For steady-state simulations: accelerating the O2 (line 26)
For steady-state simulations: run at least 6 Myr (line 23) and check the age for generating a restart (line 25, close to 6 Myr)

Running the simulations

Restart

- copy OUTPUT/output.*** into the restart directory
- in initfiles, change accordingly line
 14 in IOconditions.txt

Compiling

- 1. source directory
- ./makefile (open it with Xcode if want to change executable name. GEOCLIM by default)
- 3. check the errors (call yves)
- 4. run the model: ./GEOCLIM (or new prescribed name by user)

Usual crashes

1. file or directory not found! Check paths

In any case: read the message from the computer!

Managing the output

having a quick look at output during the simulation (just for checking purposes)

- 1. GEOCLIM is producing 2 netcdf files: geoclim and geographic (OUTPUT directory)
- 2. check numerical values:
 ncdump -h name.nc : show the name of the
 variables (h is for header)
 ncdump -v time, CO2_atm_level name.inc (v is
 for variables)

Final output

- 2 netcdf files: geoclim and geographic (OUTPUT directory)
- 2. a lot of ascii files which will be used for plotting (OUTPUT directory) with python

graphical output

- 1. for netcdf: Panoply (can make maps, simple plots, latitudinal transects)
- 2. python script called geoclim_full.py (python directory): have to define the name of the runs line 13 (WITHOUT dot), you find this in IOconditions.txt file (initfiles) or in the names of the output files (OUTPUT)
- 3. run the python script: python geoclim_full.py (python directory in a terminal). Will generate pdf output in the python/figs/ directory.