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| **Protocol**  Meeting Bachelor Thesis, FS 2024 | | | | | | | | | | | |
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| **Protocol-No.:** | 07 | | | | | **Project name:** | Bachelor Thesis | | | | |
| **Meeting type:** | Discussion | | | | | **Location:** | GIUB, Bern | | | | |
| **Date / Time:** | 29.05.2024 / 11:00 | | | | |  |  | | | | |
| **Topic / Goals:** | Global Modelling | | | | | | | | | | |
| **Lead:** | Benjamin Stocker | | | | | **Logger:** | Patricia Gribi | | | | |
|  | | | | | | | | | | | |
| **Participants** | |  |  | | **E-mail** | | | **Present** | **Excused** | **Distribution** |
| Prof. Benjamin Stocker | |  | GECO-Group | | benjamin.stocker@unibe.ch | | | x |  |  |
| Patricia Gribi | |  | Unibe | | patricia.gribi@students.unibe.ch | | | x |  |  |
|  | | | | | | | | | | | |
| **Items discussed:** | | | | | | | | | | | |
| 1 global Modelling | | | | | | | | | | | |
| **Next meeting:** | | | | **Attachments:** | | | | | | | |
| * xx.05.22/15.00 | | | |  | | | | | | | |

| *(Legend for type: D = Decision, P = Pending, I = Information)* | Typ | Resp.: | Date: |
| --- | --- | --- | --- |
| Modelling |  |  |  |
| * **Potential Evapotranspiration Calculation:** was calculated with the pet() function. Pressure as parameter was obtained from the elevation data (see section below). | I |  | 27.05 |
| * **Regridding:** Elevation data was acquired which is needed for computing the surface pressure within specific grid cells. The surface pressure is a parameter to calculate PET (Potential Evapotranspiration) with the pet() function. For the regridding the ETOPO1-tif dataset was utilized. This dataset underwent regridding onto the CMIP6-NG NetCDF file using the terra::raster function. Subsequently, a new NetCDF file was generated, incorporating the elevation data as a variable. | I |  | 26.05 |
| * **cwd/pcwd function:** Should return in the end the cwd and pcwd timeseries as a nested dataframe: longitude/latitude should be in separate columns, while the gridcells in rows contain in another column the nested time-series. The daily values but also the annual maxima should be returned. | I |  | 14.05 |
| * **map2tidy:** There were several bugfixes made in the map2tidy function. The function works now for the cmip6 data. | I |  | 29.05 |
| Workflow |  |  |  |
| * **Test:** To verify the functionality of the workflow, the code should initially be executed for a single longitudinal band. | P |  | 19.05 |
| * **Github Issue:** There is an issue with my github. I cannot push to the cwd\_global repo. This problem needs to be solved. | P |  |  |