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| **Protocol**  Meeting Bachelor Thesis, FS 2024 | | | | | | | | | | | |
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| **Protocol-No.:** | 02 | | | | | **Project name:** | Bachelor Thesis | | | | |
| **Meeting type:** | Discussion | | | | | **Location:** | GIUB, Bern | | | | |
| **Date / Time:** | 11.03.2024 / 11:15 | | | | |  |  | | | | |
| **Topic / Goals:** | Discussion on the first steps: Data Download and Proposal | | | | | | | | | | |
| **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 Data Download  **2** **Proposal** | | | | | | | | | | | |
| **Next meeting:** | | | | **Attachments:** | | | | | | | |
|  | | | | * Link to proposal | | | | | | | |

| *(Legend for type: D = Decision, P = Pending, I = Information)* | Typ | Resp.: | Date: |
| --- | --- | --- | --- |
| Data Download |  |  |  |
| * Got access to server (Workstation 2). With ubuntu login remotely to workstation 2. Use command: ssh -L 9090:localhost:8787 [patricia@130.92.119.132](mailto:patricia@130.92.119.132) and then my password I set. Username for R server: patricia and same password as before, http://localhost:9090/. The data on the workstation 2 is found here: /data/scratch/CMIP6ng/cmip6-ng/pr/day/native/ |  |  |  |
| * **Next important steps:** Decide on the variables. Which variables should we take? Download additional? What if one variable just at daily resolution and another just at monthly resolution? |  |  |  |
| * The data is from one model at the moment right? |  |  |  |
| * Precipitation in kilograms per square meter per second. Good? |  |  |  |
| * I will not be able to put the data in the repository. Is that bad? How will it be a reproducible workflow? |  |  |  |
| * Readme on infos about data download needed in the repo? I put it under data raw although it’s not the actual data |  |  |  |
| Proposal |  |  |  |
| * What exact Methods will I use to do what Analysis especially? Could it be a possibility to compare my outputs with the outputs you had with your data? What is necessary to make a trend-analysis? |  |  |  |
| * Implementation-Section: describe the cwd-Algorithm? |  |  |  |
| * Background and Motivation I just took the information provided in the thesis-theme overview. Do you excpect more there? |  |  |  |
| * Impact: What impact will my thesis have? The cwd-algorithm is just fed with new data. |  |  |  |
| Admin |  |  |  |
| * Where is my Notion folder? * **Next steps:** hand in final proposal |  |  |  |
| Literature Research |  |  |  |
| * In the paper you published you take this mass balance approach. So you take the CWD as an indicator for rooting-zone water-storage capacity. In the CWD-estimation section you explain your approach and how you calculated the CWD with an algorithm. Would it be enough to cite your paper and how you calculate the CWD? Or do I have to go a step further and find a source, where there is described why I can actually take the CWD as an indicator for rooting-zone water-storage capacity? |  |  |  |
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