

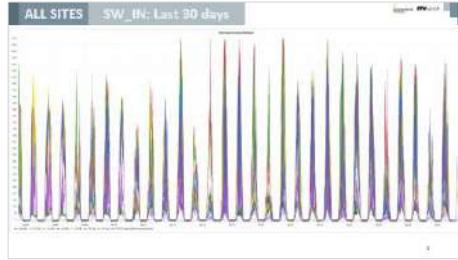
QA/QC Meeting

4 May 2023

Participants: LH, KMK, SB, YW, LS, FT, MR, AS, IF, LK (10)

General Info

- Attention! If you are [Bach-EPP] please attach GA-ICOS readings (all .txt files you have) needed for planning of the meetings.
- Start statement: N2O & dichroic plasma prepare every instrument stock year file and print it at this date together with the photo(s). You can also attach the directly available measurement files provided recordings from Transonic.
- Important note: Please attach the last 30 days data from the ICOS station. If there are no data for the last 30 days, please specify which one should look at together.
- Attention:** Please attach the last 30 days data from the ICOS station. If there are no data for the last 30 days, please specify which one should look at together.
- Check of all raw data files:**
 - Please check the raw data for EPPs are T19P, take a look at CC raw data files and check if they look OK.
 - Launch a raw data file we automatically converted to MAT and check your paths.
 - Please send their paths via email, e.g. for CH-AWS: https://gitlab.oss.ETHZ.ch/ethz/awes/awes_n2o_2022
- Weekly flux calculations on the ICOS:**
 - Please calculate fluxes and check them in a couple weeks or more often if you wish to do so.
 - Please make sure to check the fluxes for the respective limited ICOS.
 - EPP Notes:** The last 9 (1/Jan/2022) calculations is a temporary fix for: Please move Loris Difesa calculations (postscript fluxes) to the last 9 (1/Jan/2022) calculations. This is because the fluxes for the first 9 (1/Jan/2022) are not yet calculated.
 - CH-AWS: CH-AWS (see CH-AWS on Jan 2022) and CH-DAS (see CH-DAS on Jan 2022) are inserted in drive Z in this sample.
 - CH-AWS has moved to the location. This means that we now have a new working environment where we can run a new calculation.
 - Please refine separate numbers to reflect data refit issues, e.g. flux processing, control and self correction to take place.
 - Use of GA/CC Meeting dates: https://gitlab.oss.ETHZ.ch/ethz/ga_cc_meeting_2022

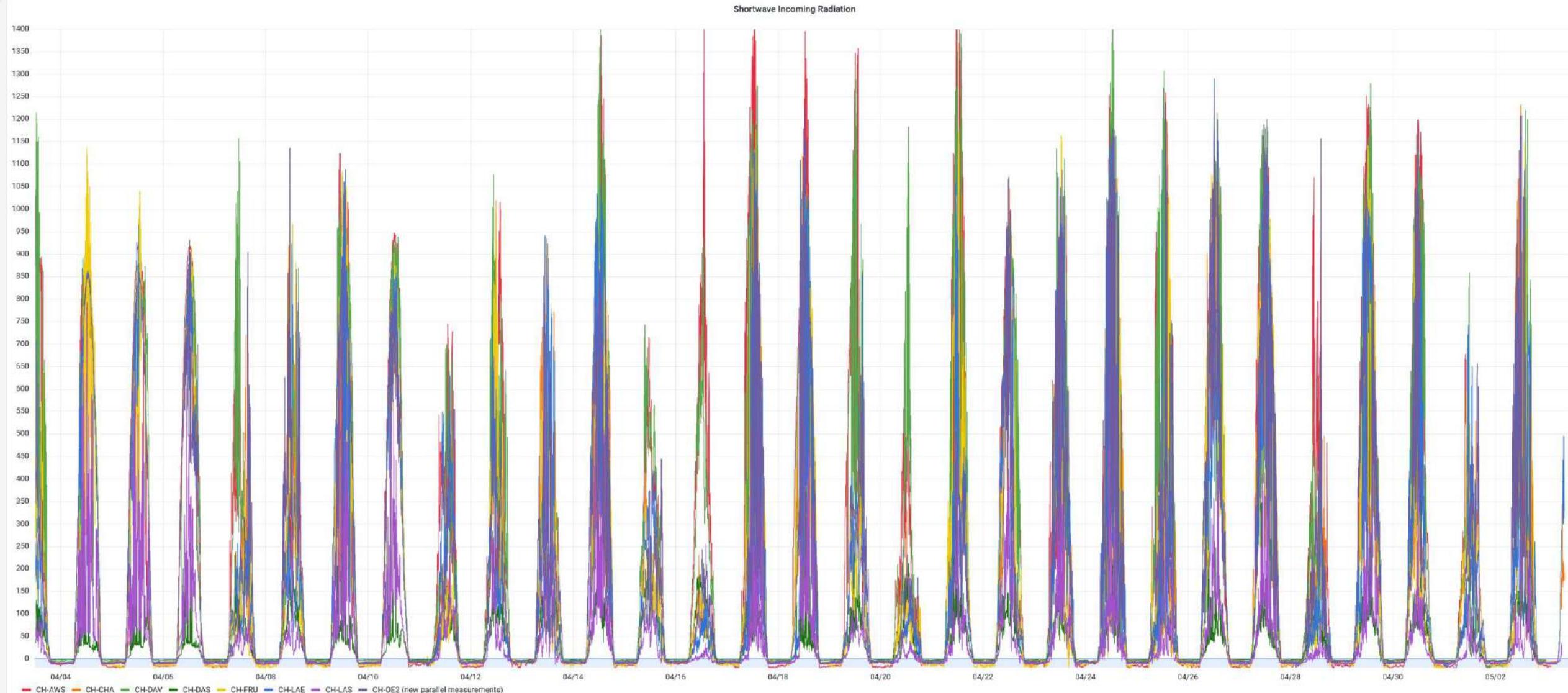


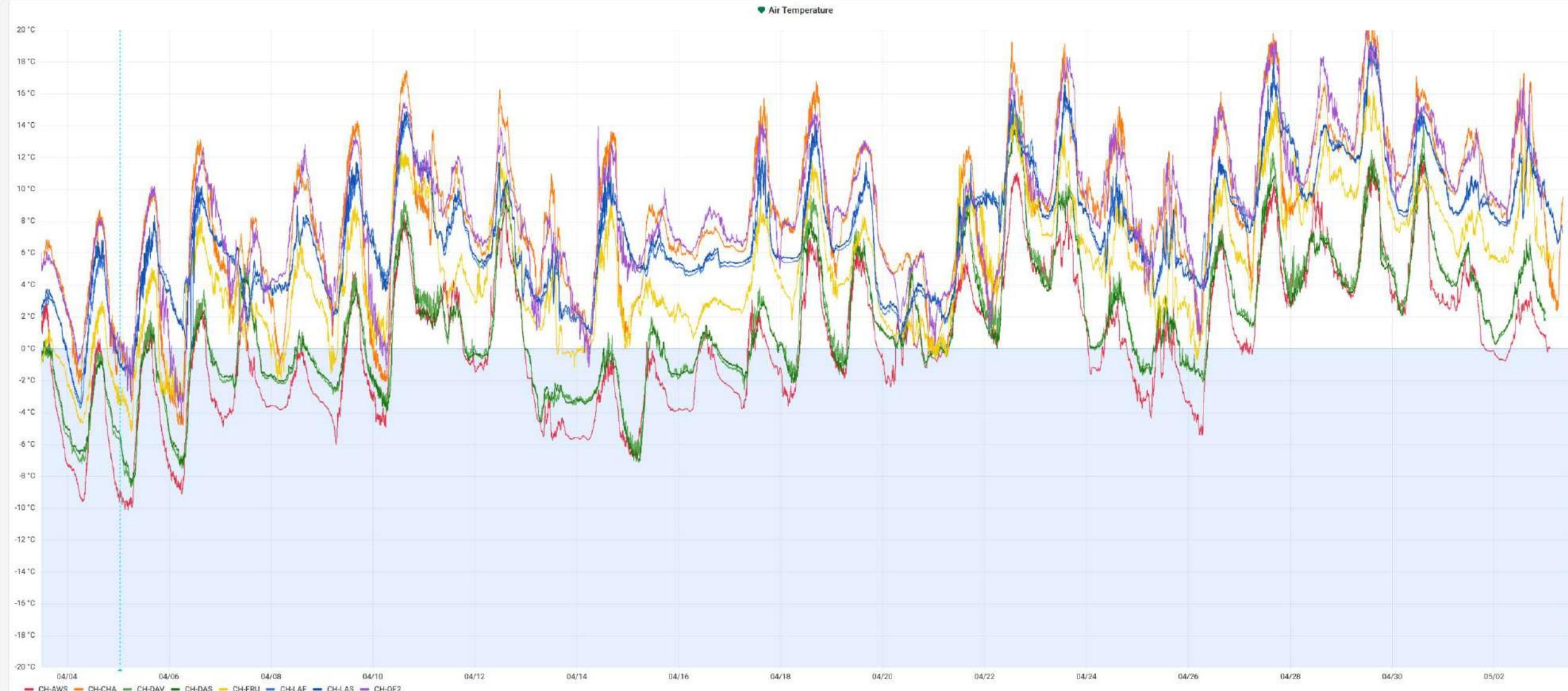
General Info

- **Attendance:** If you are (Tech-)SRP, please attend QA/QC meetings or tell LH if you can't, needed for planning of the meetings.
- **Short statement:** SRP & Tech-SRP: please prepare short statement about your site and post it on the slide together with the plot(s). You can also extend the already available text snippet(s) from previous meetings. (max. 2 sentences)
- **Purpose:** The purpose of QA/QC meetings is to check on current, incoming data. SRPs choose specific issues we should look at together and discuss in the group. Fluxes are checked if the respective SRP wishes to do so.
- **Variables:** There is a list of known variable abbreviations that you can use in case you wonder what an abbreviation means: [Variable Abbreviations](#)
- **Check of EC raw data files:**
 - Recommended check for SRPs and T-SRPS: take a look at EC raw data files and check if they look OK
 - Current EC raw data files are automatically converted to ASCII each day (done by the Python script bico)
 - Files and their plots can be found here, e.g. for CH-LAS:
gl-processing\CH-LAS_Lae-Subcanopy\20_ec_fluxes\2022\raw_data_ascii
- **Weekly flux calculations on the RDS:**
 - Please calculate fluxes and check them once per week, or more often if you wish to do so.
 - If you cannot calculate the fluxes, try to find a substitute, e.g. LH.
 - Please move your Level-0 results from the RDS to the respective Level-0 folder.
- **RDS folder:** The folder P:\Flux\RDS_calculations is a temporary folder. Please move Level-0 flux calculations (preliminary fluxes) to the Level-0 folder on gl-processing. For example, for CH-CHA move files to Z:\CH-CHA_Chamaus\20_ec_fluxes\2022\Level-0 (gl-processing is mounted as drive Z in this example).
- The RDS now has access to the database. This means that we now have a shared working environment where we can run Jupyter notebooks.
- **FluxCoffee:** separate meetings to discuss data related issues, e.g. flux processing, started and will continue to take place.
- **List of QA/QC Meeting dates:** [QA/QC Meetings 2023](#)

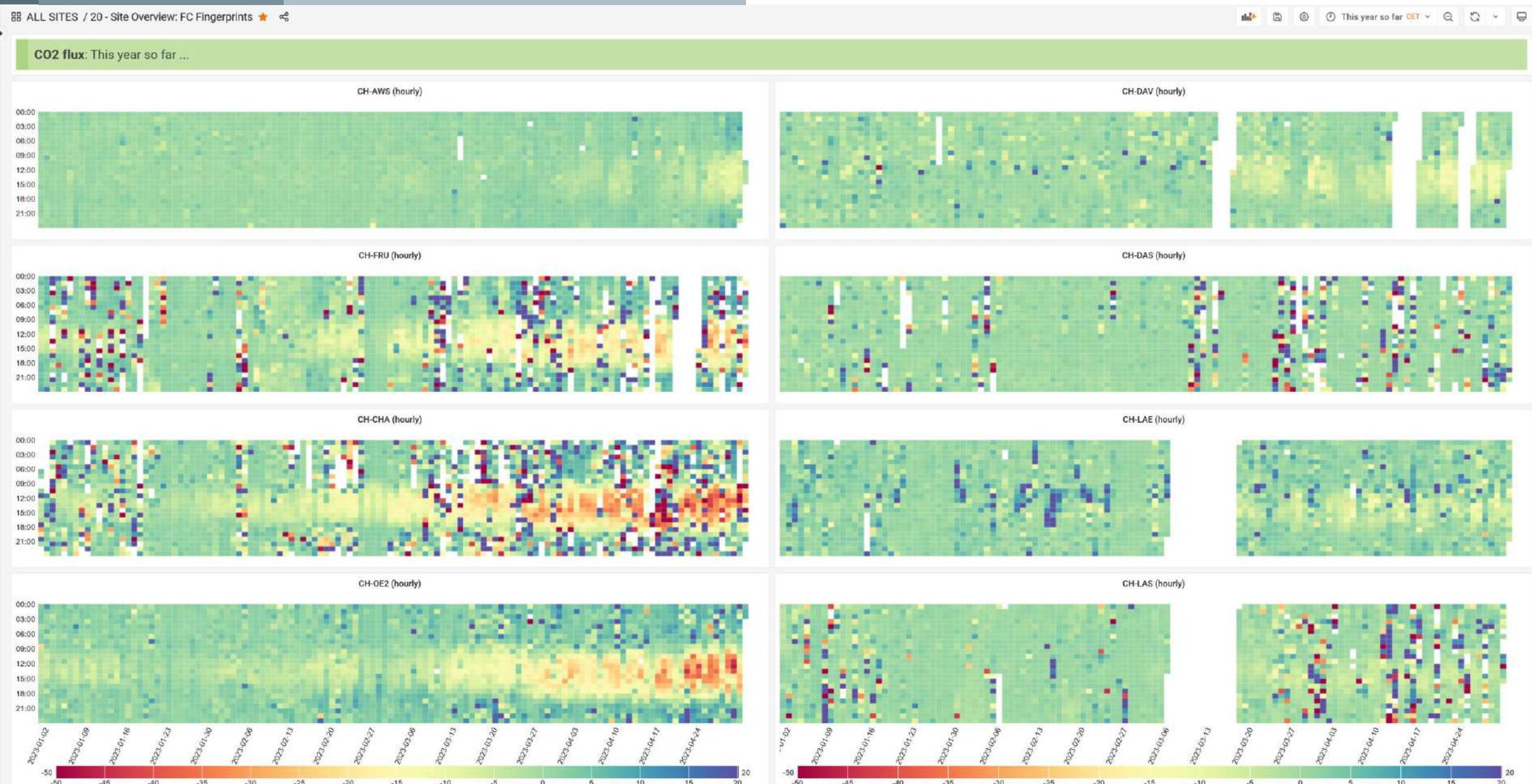
Talking Points

- SRP list needs update
- Many new and updated slides in FluxCoffee notes
- Recent fluxes from our sites

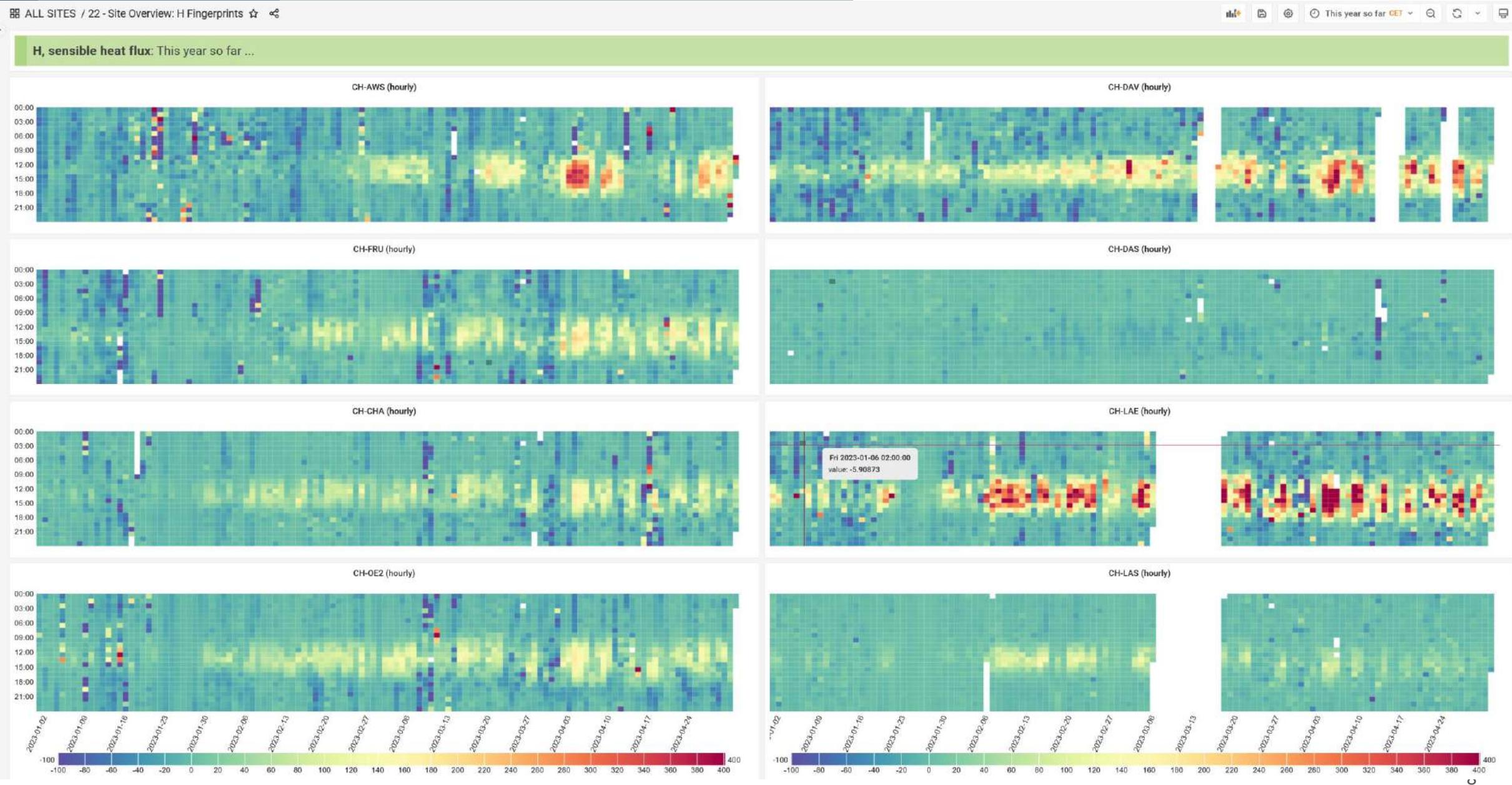




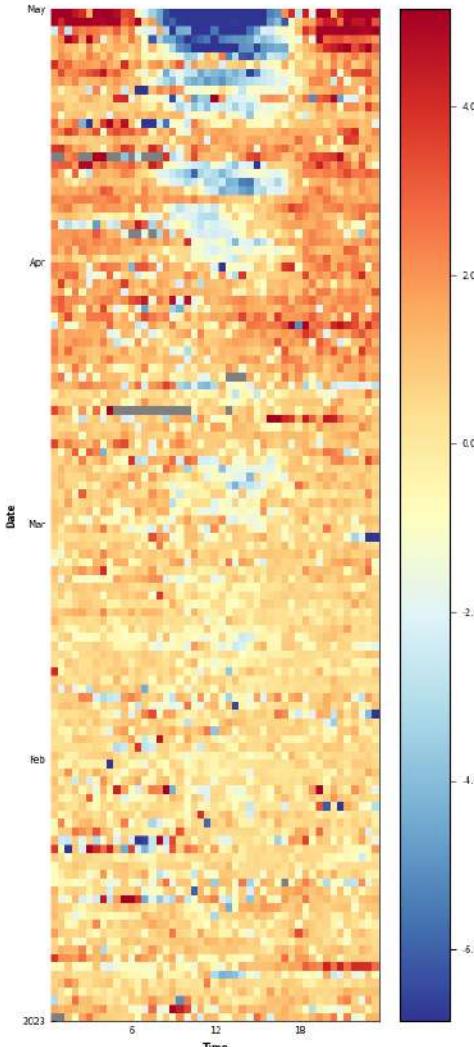
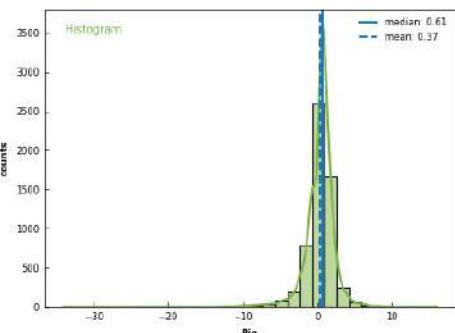
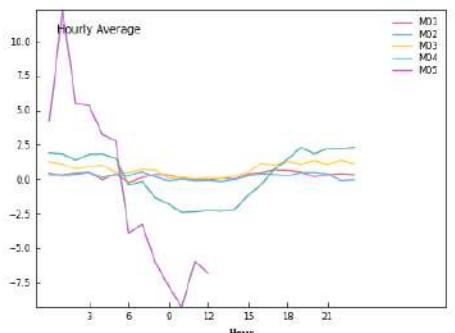
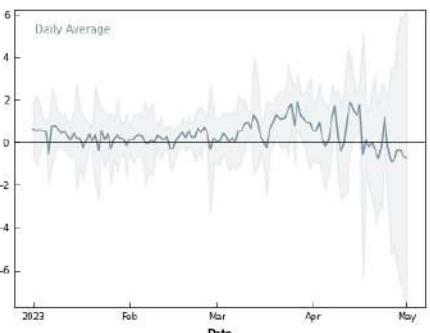
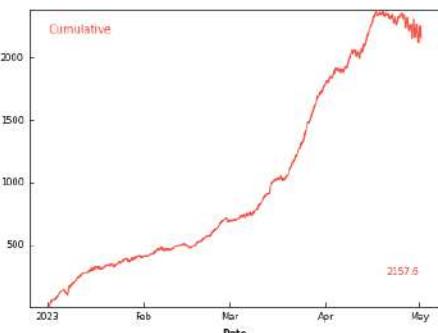
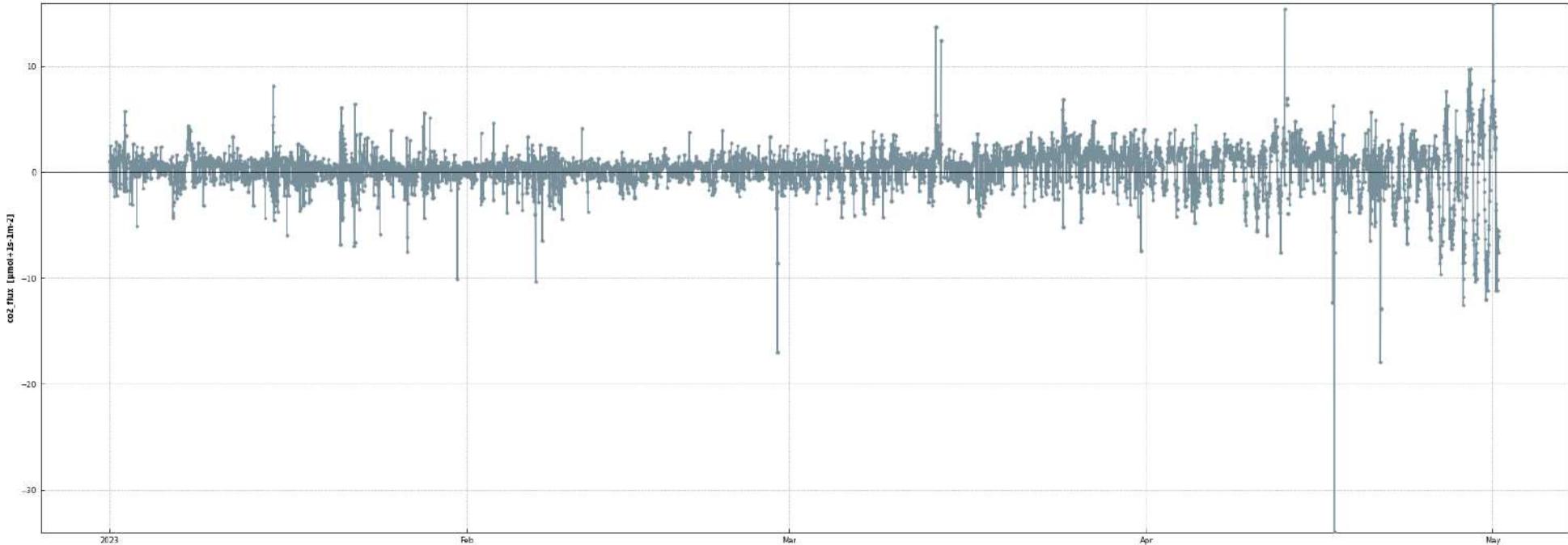
- Gaps in CH-LAE and CH-LAS: data are available, but not uploaded to database

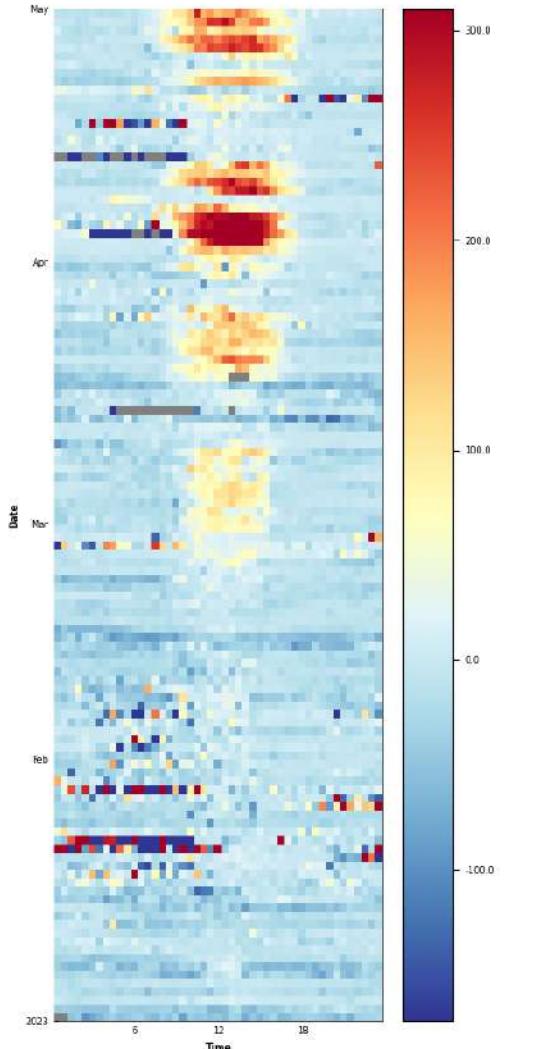
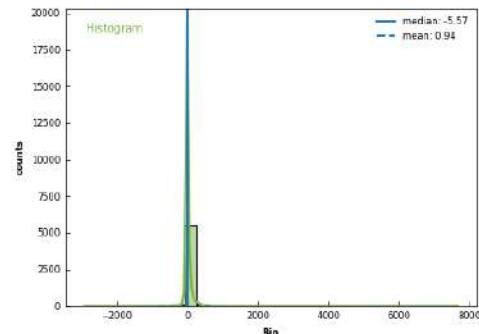
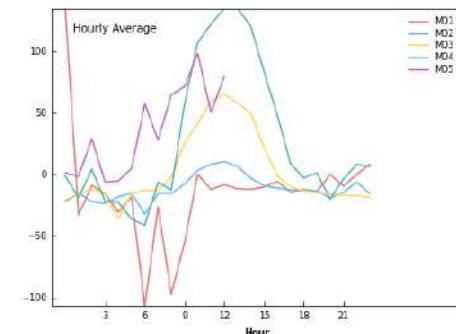
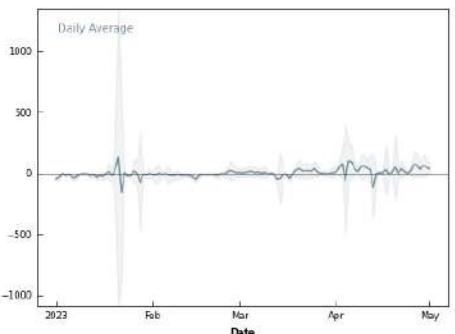
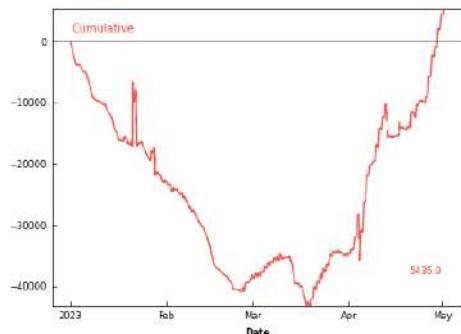
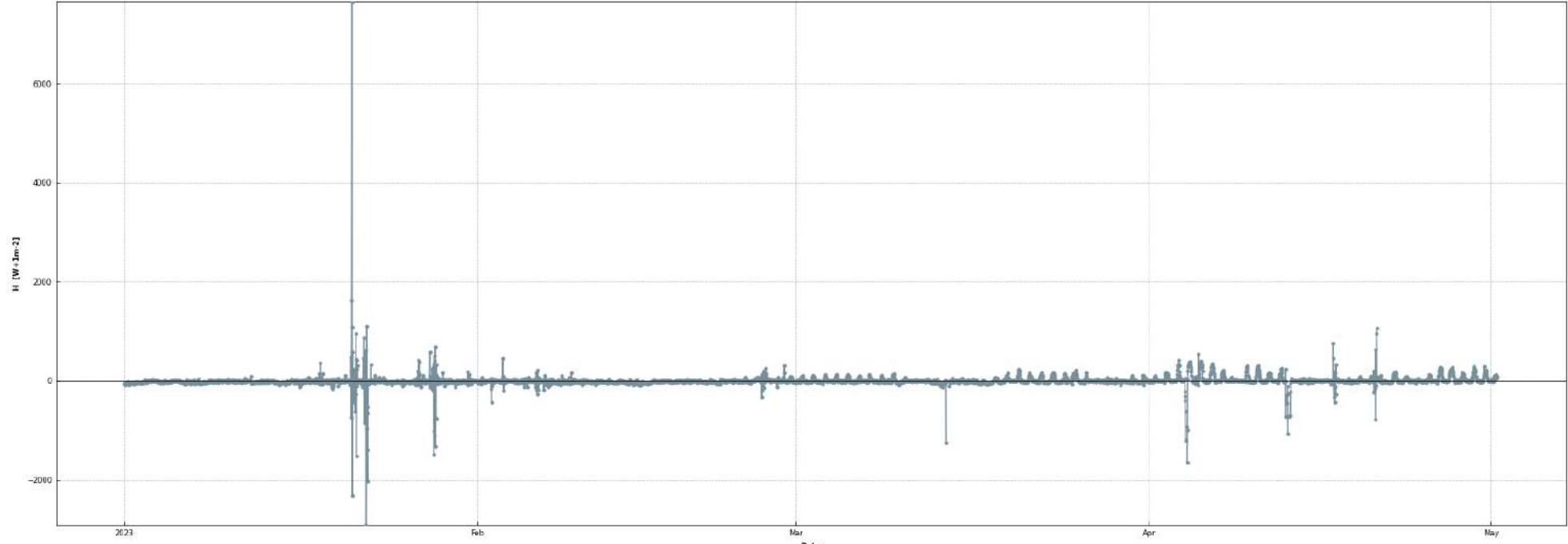


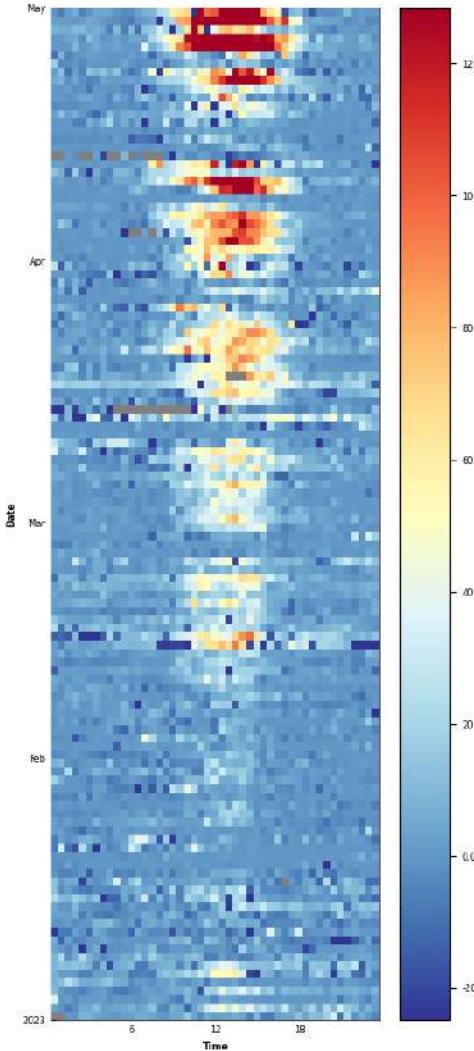
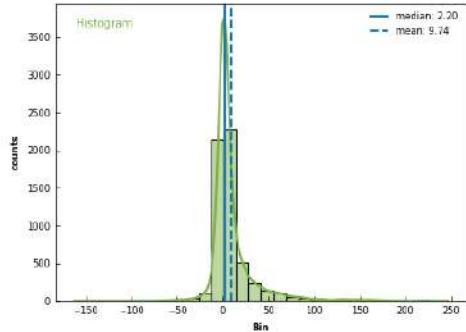
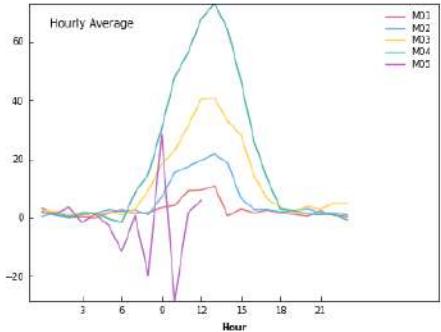
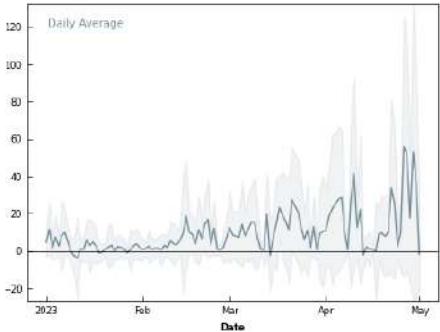
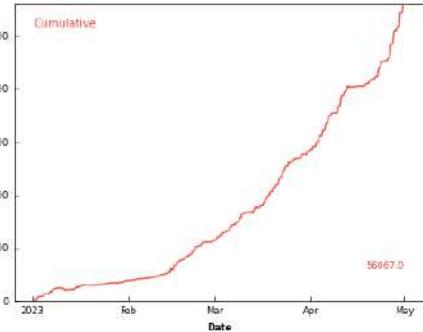
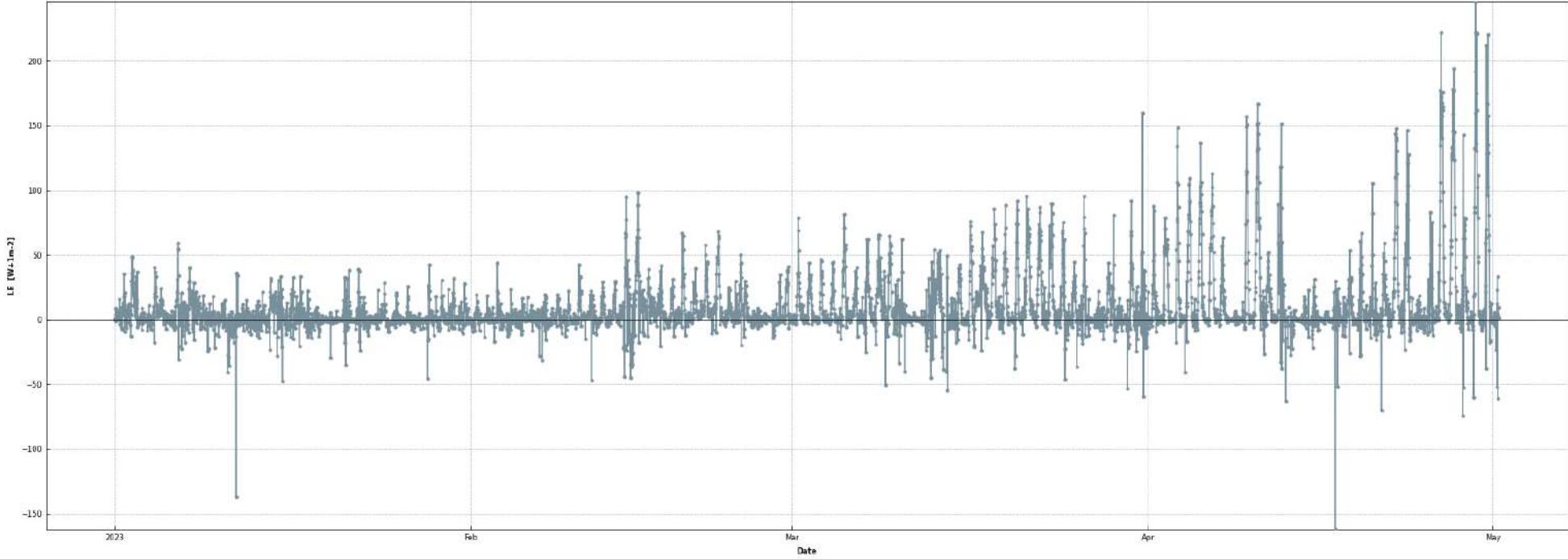
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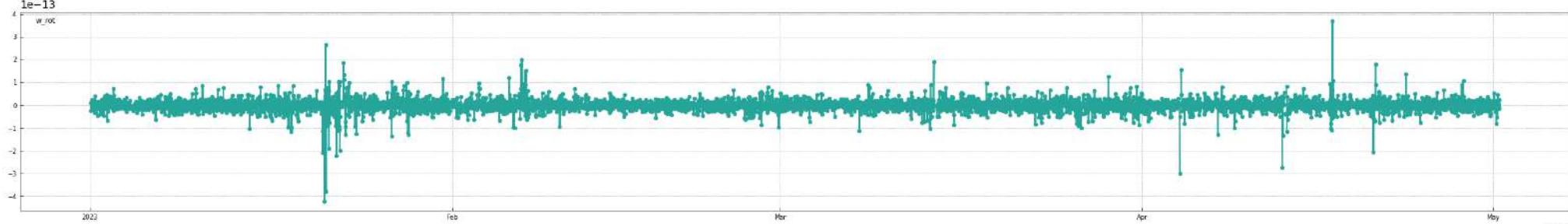
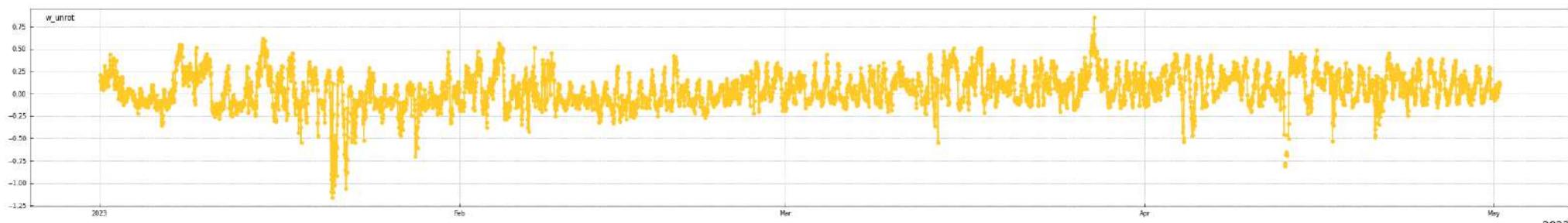
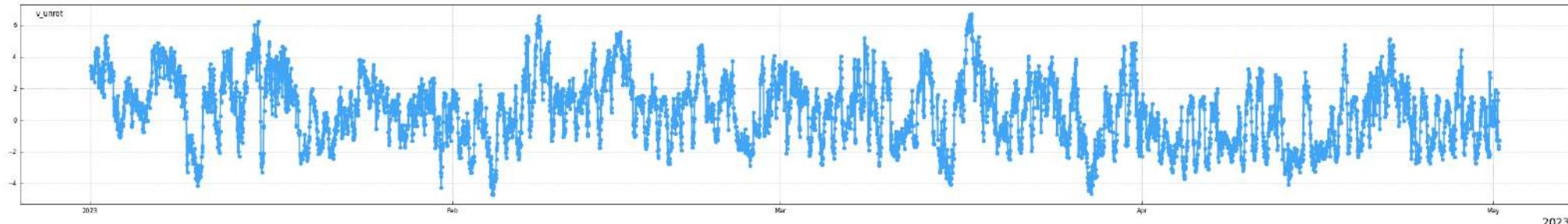
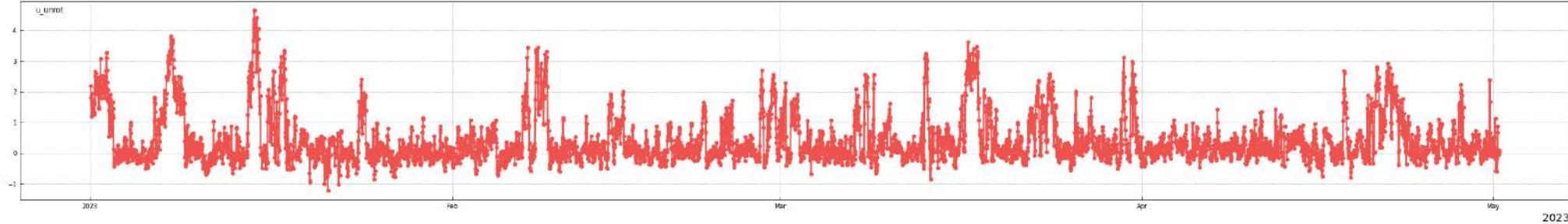
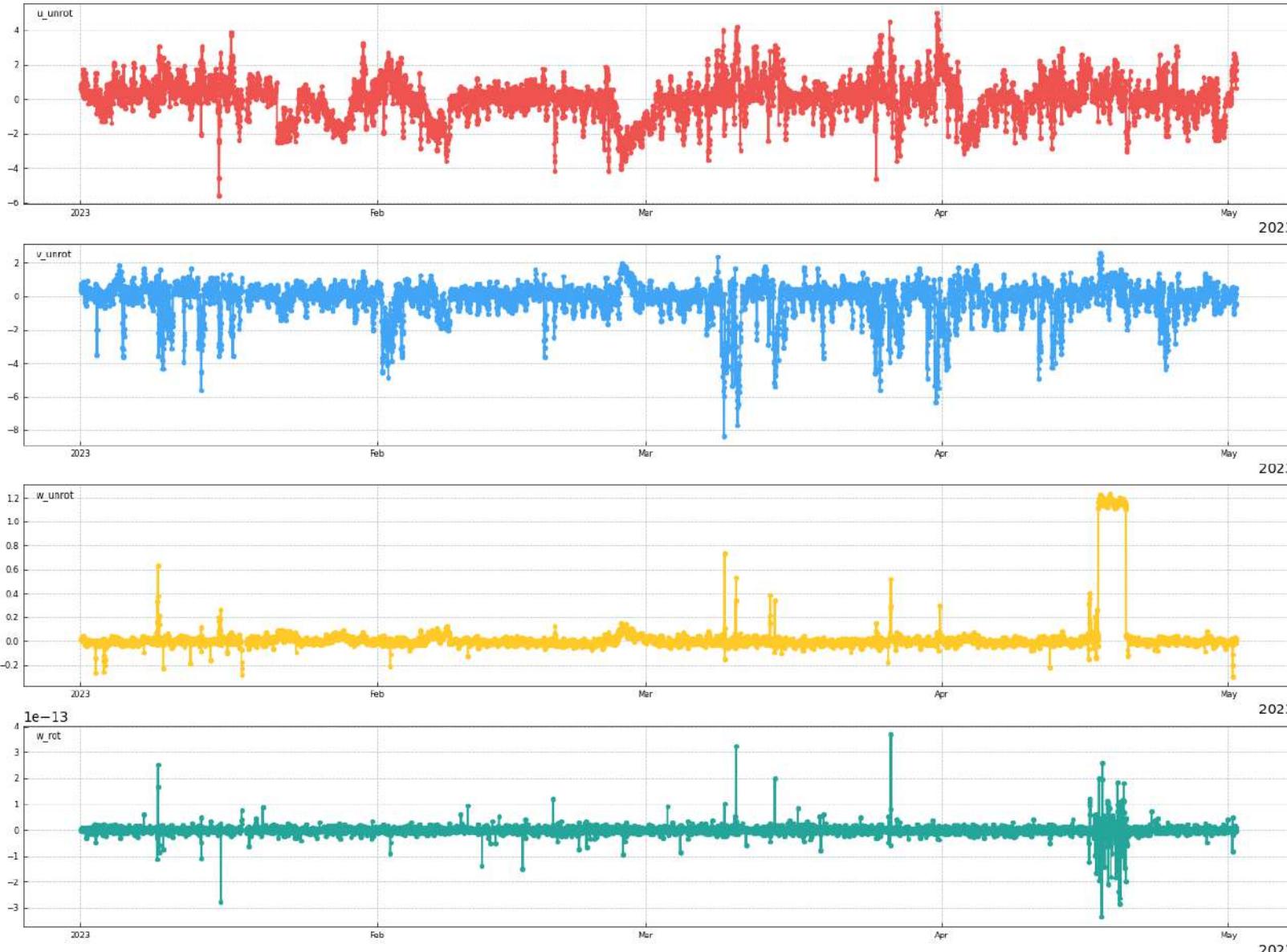
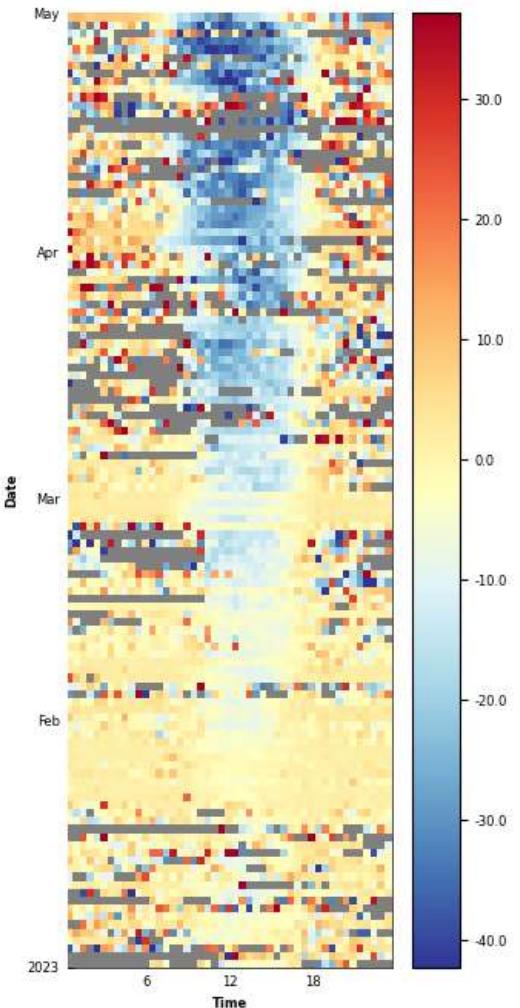
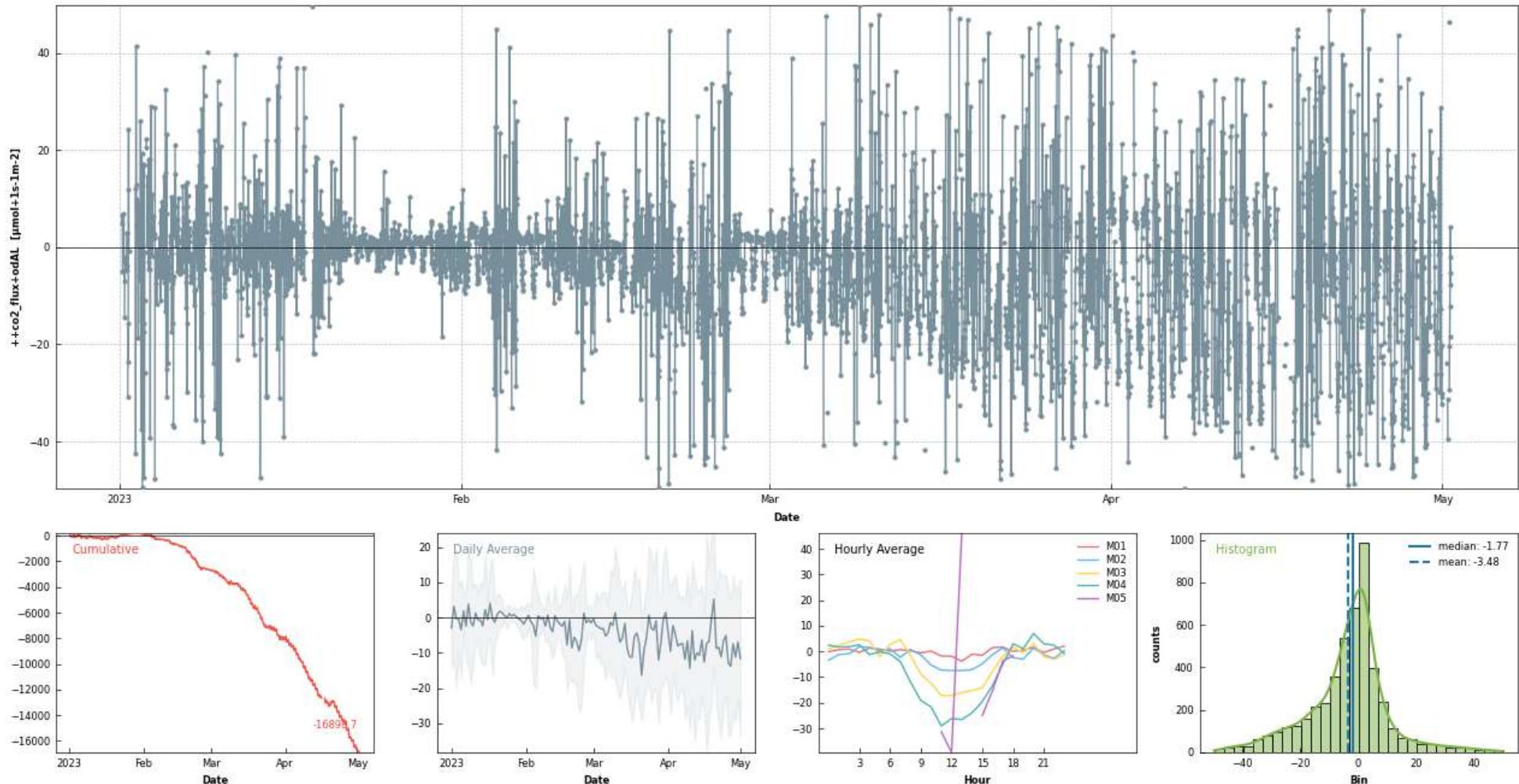


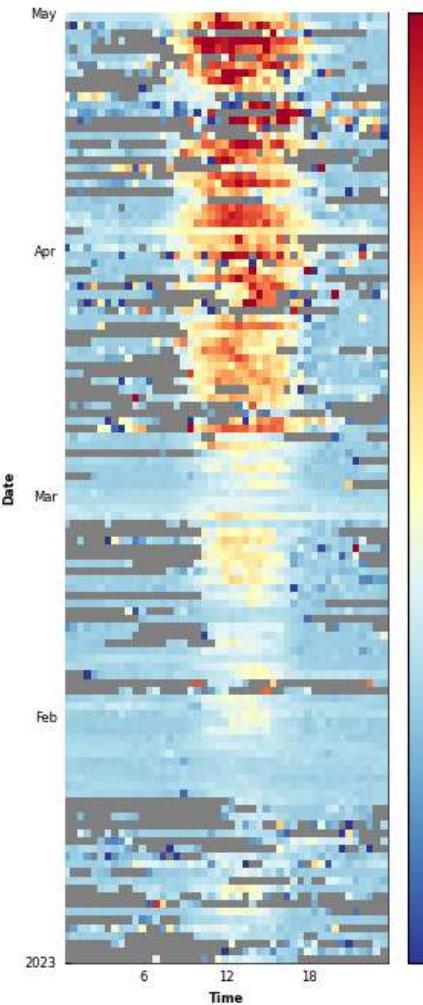
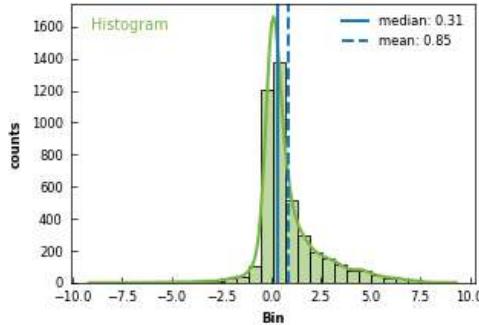
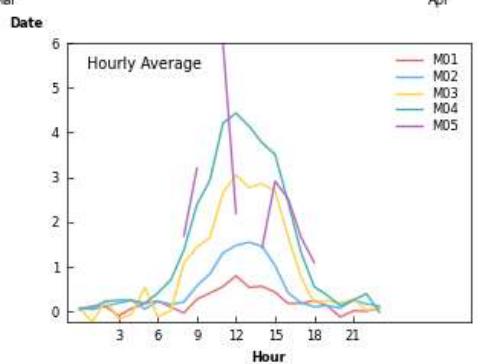
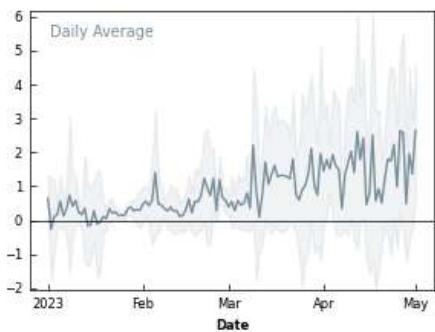
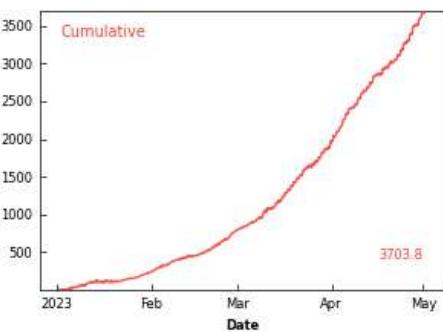
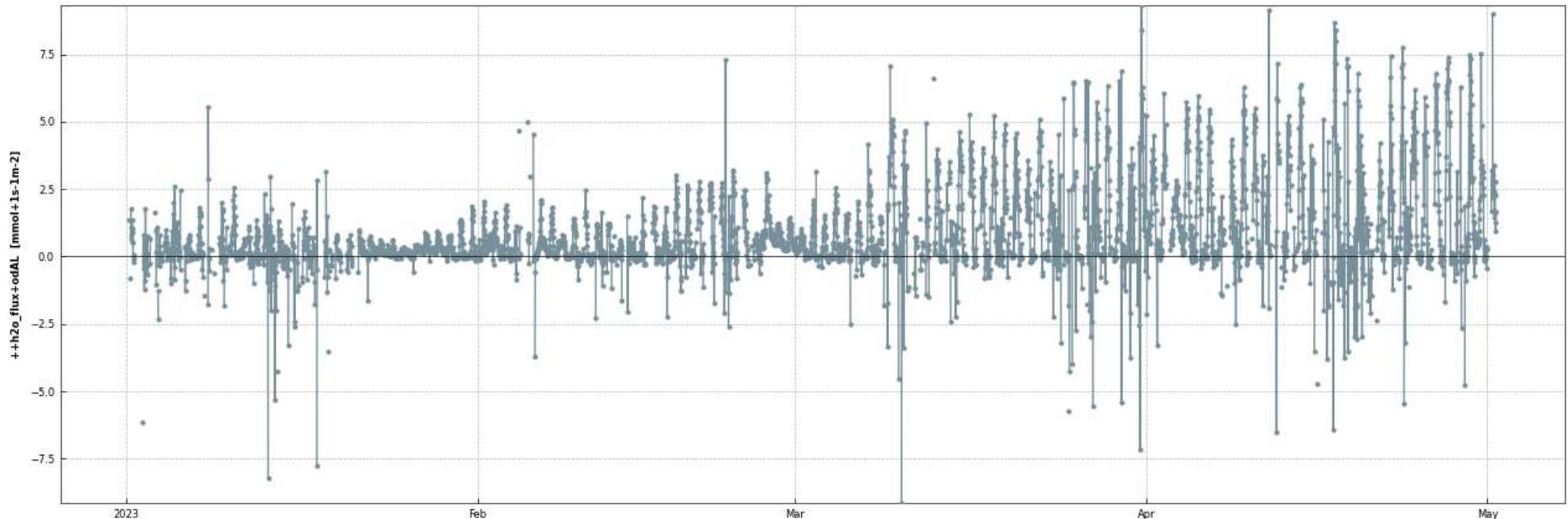


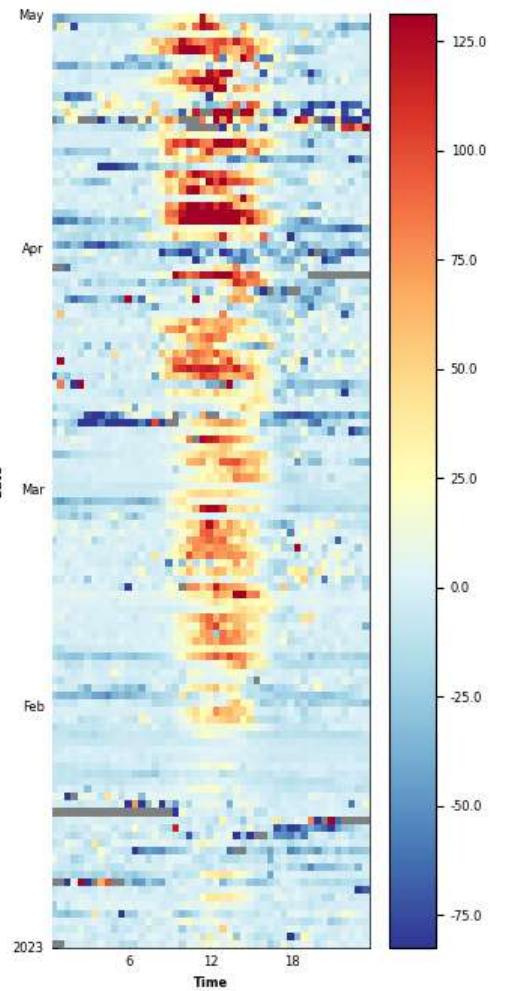
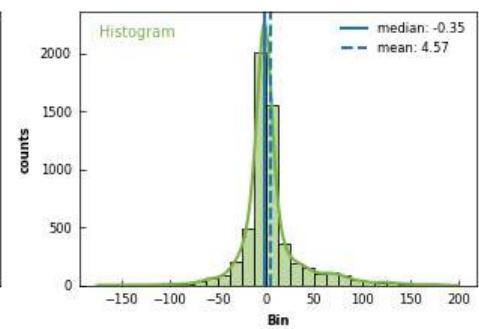
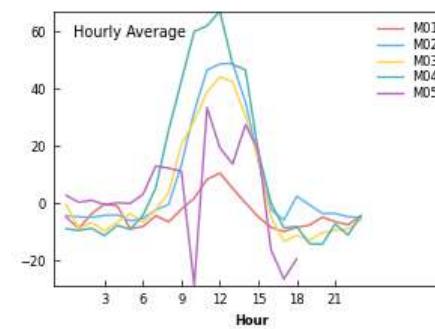
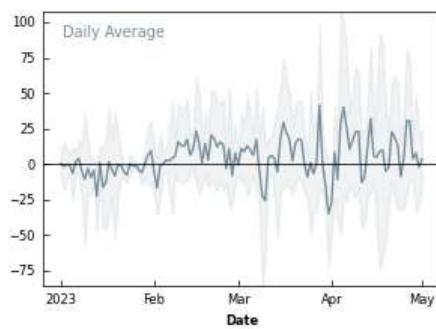
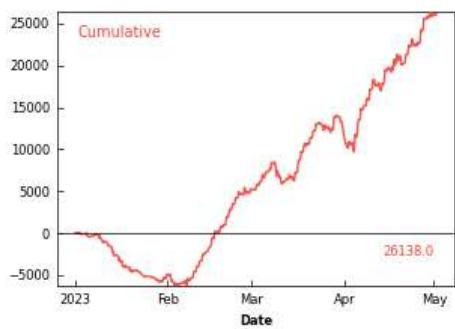
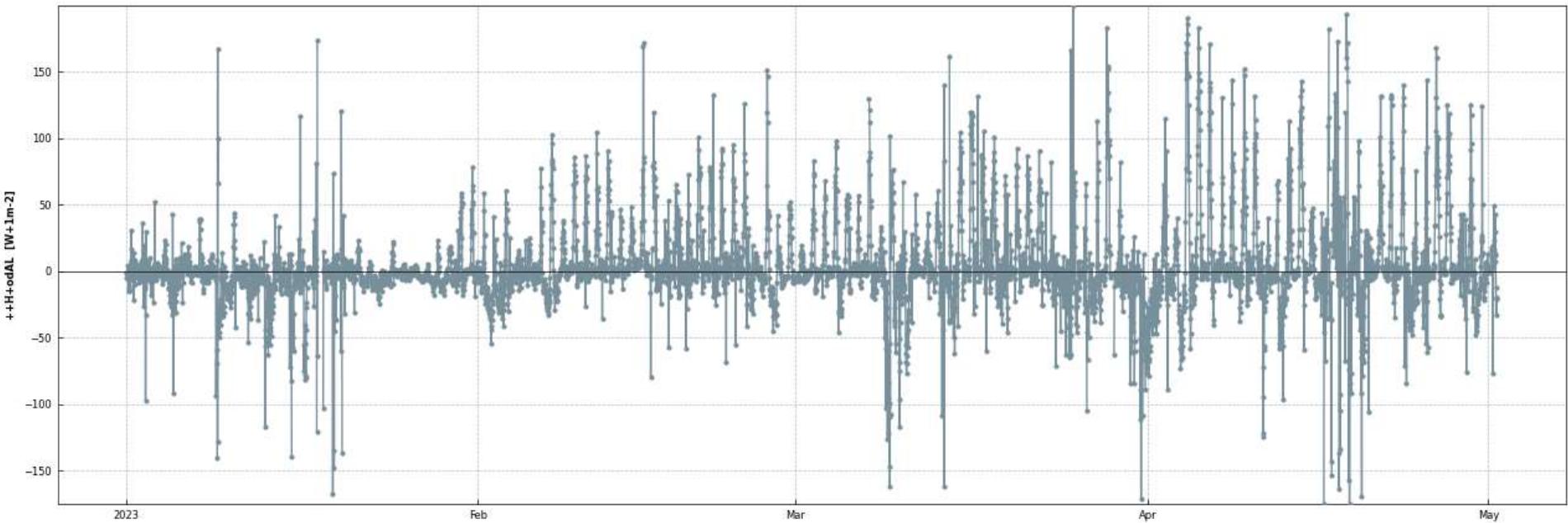
Photo: Lukas Hörtnagl



An unusual offset of **w_unrot** from 17 April 9 am to 20 April 7 am, but it went back to normal afterward.







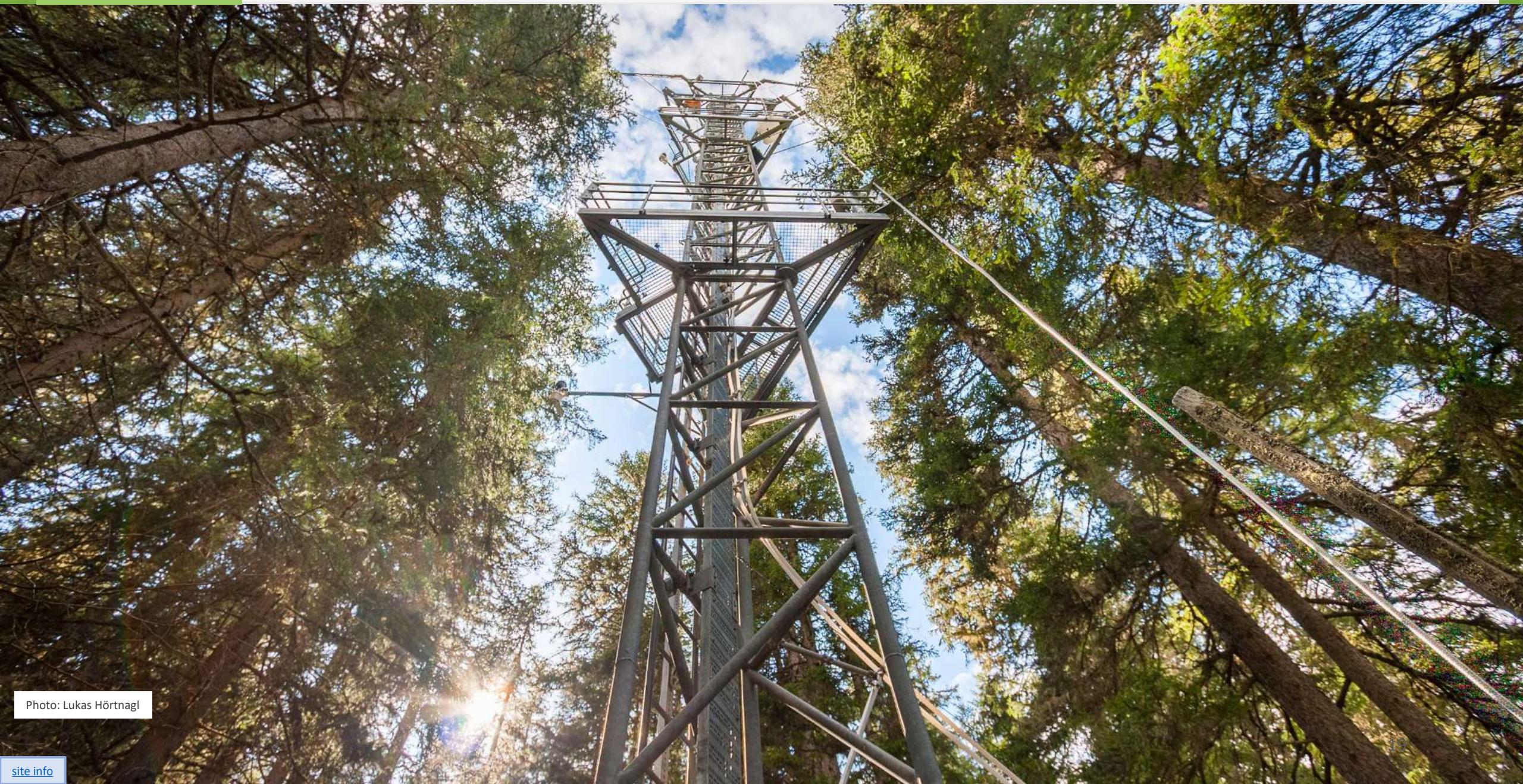
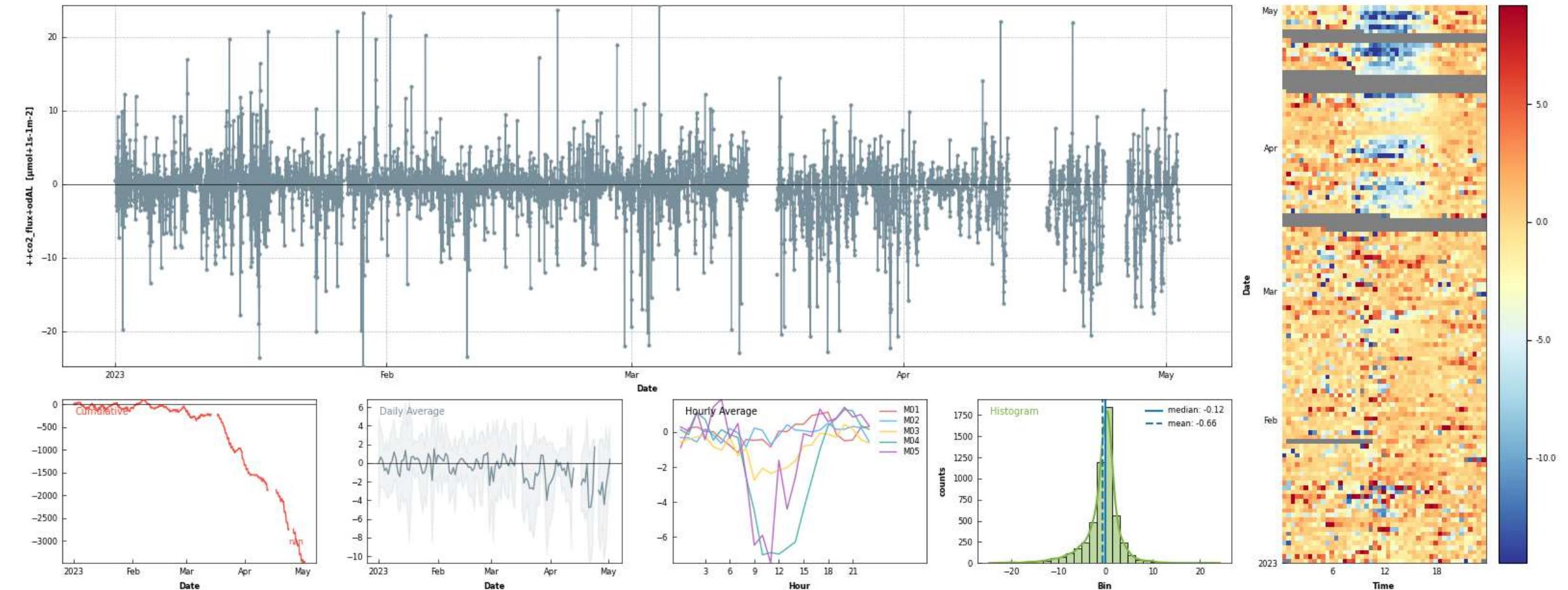
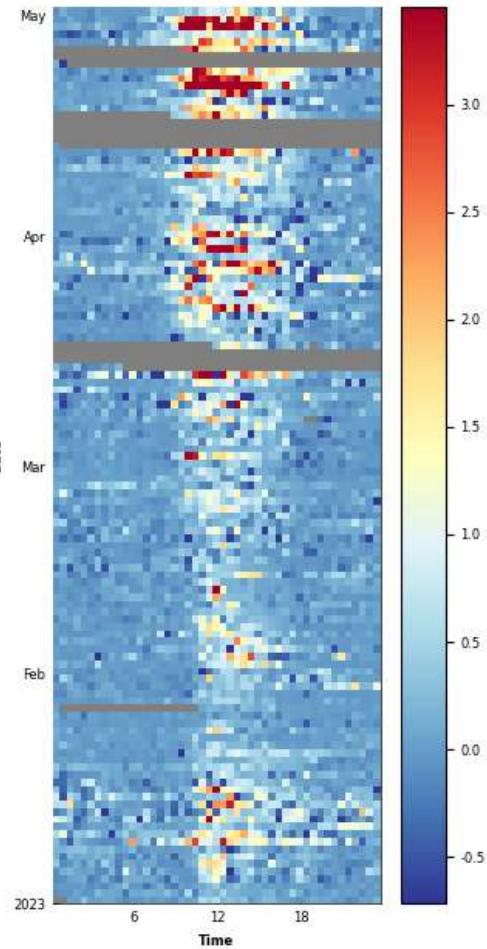
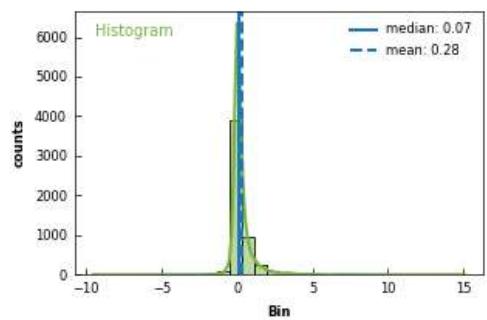
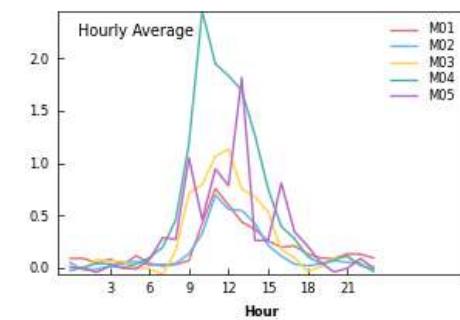
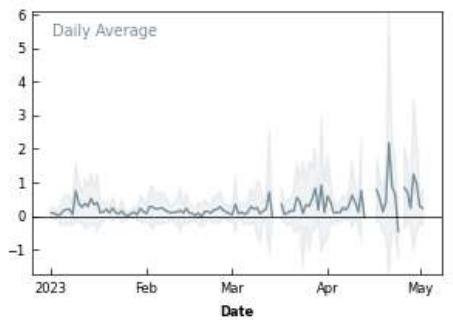
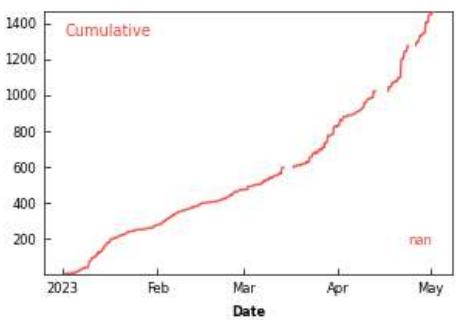
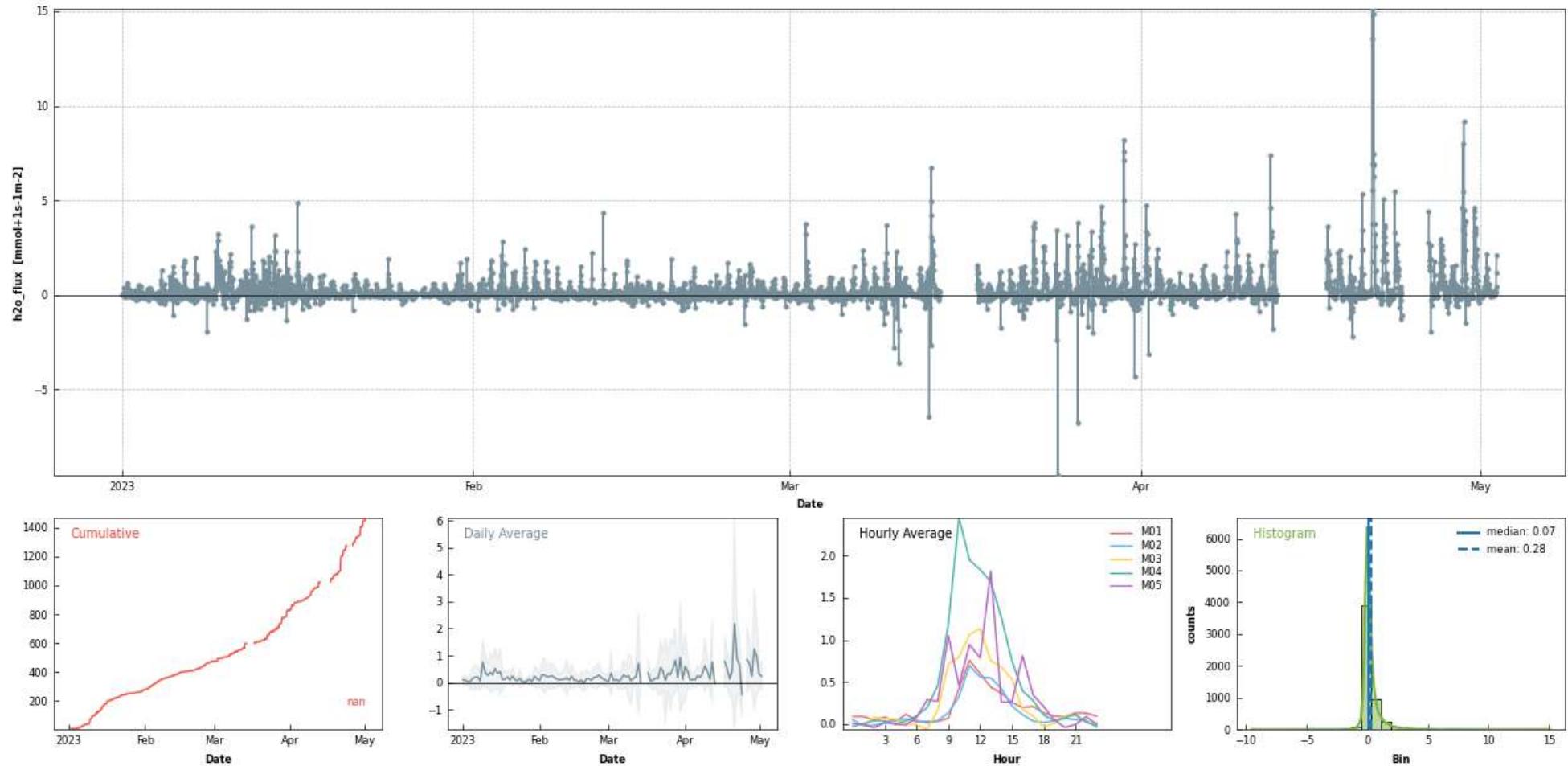
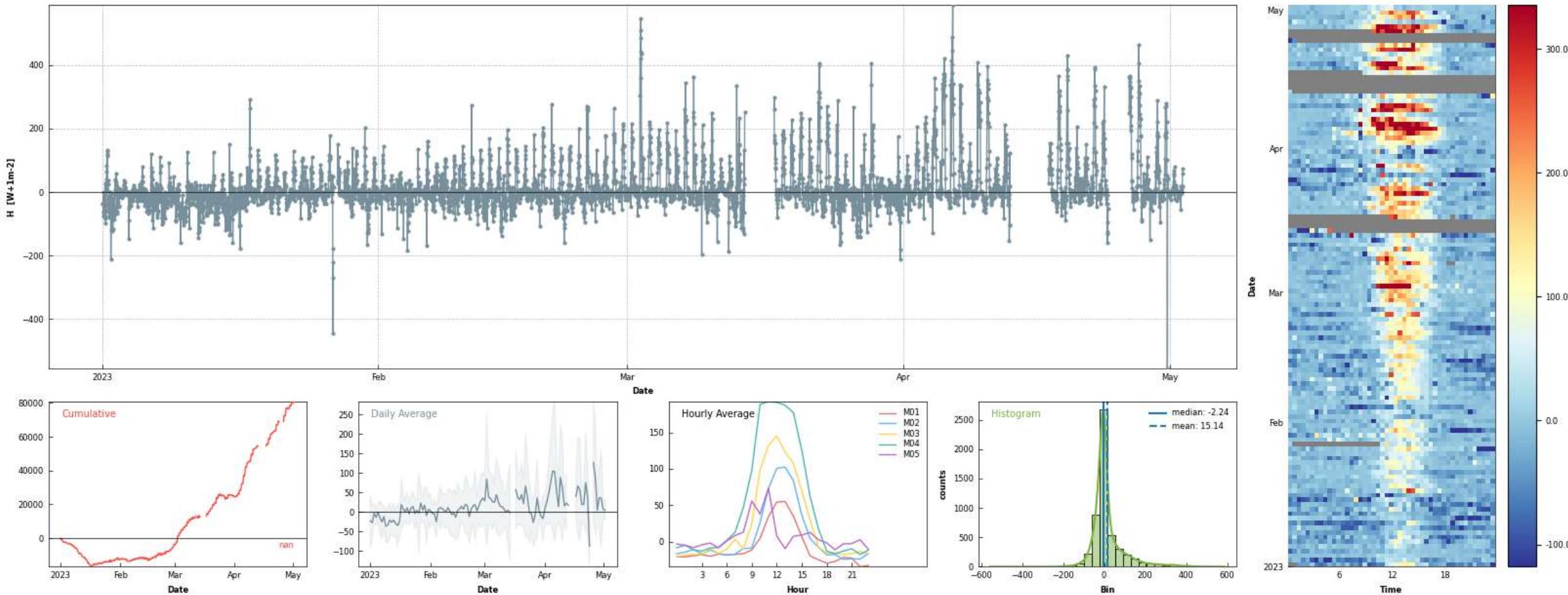


Photo: Lukas Hörnagl



Data gaps due to sonic failures





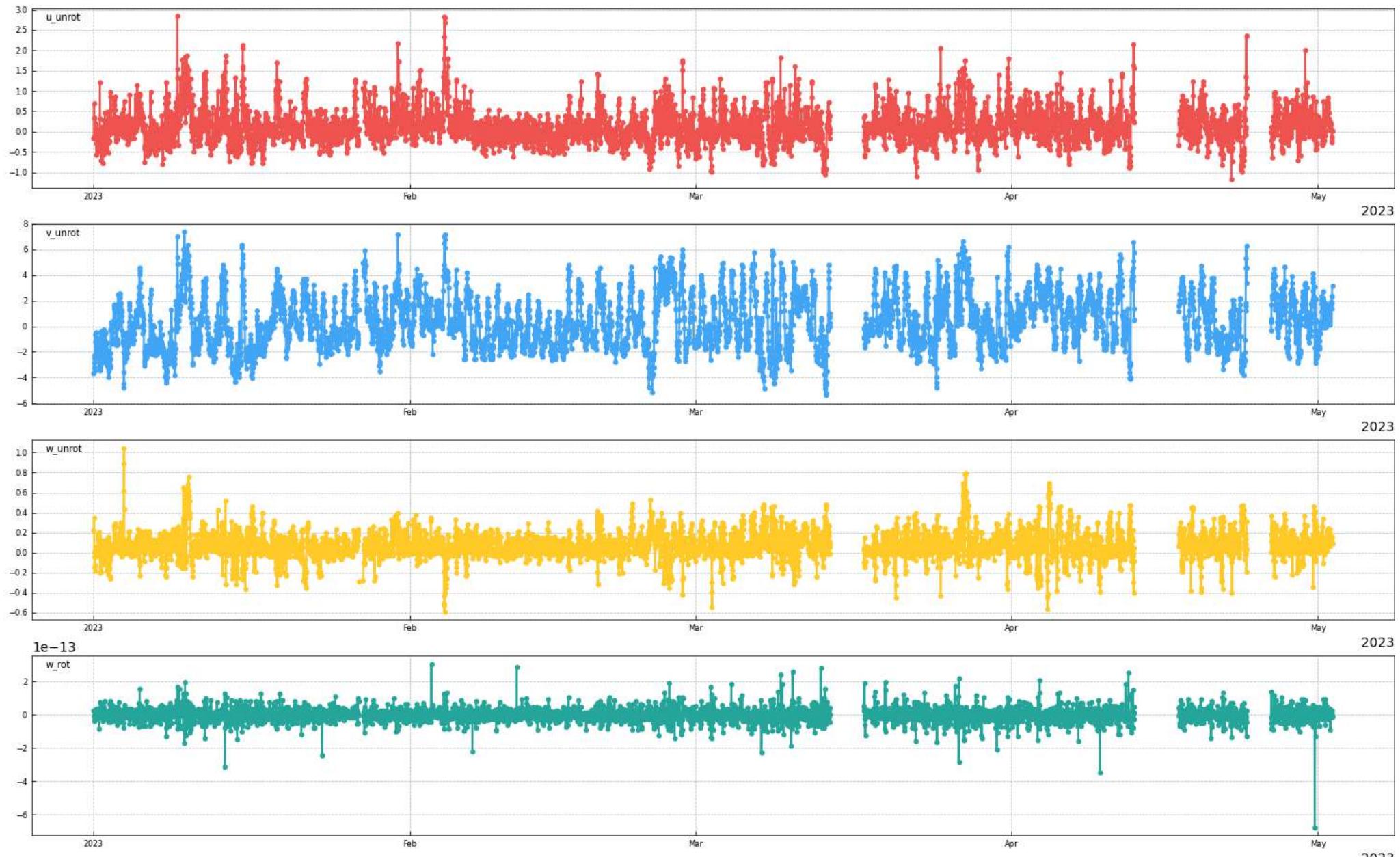
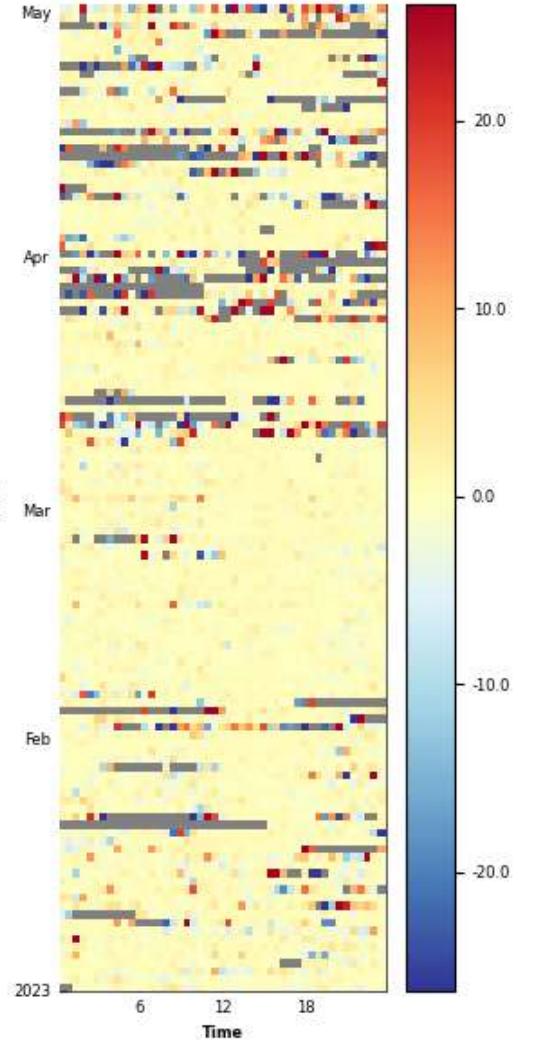
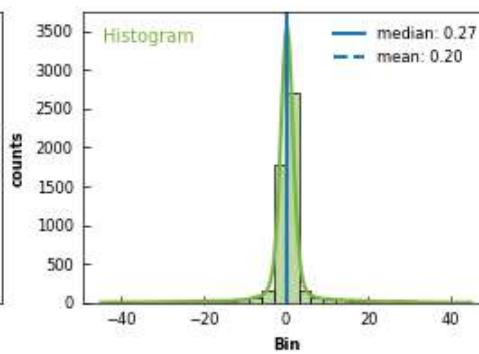
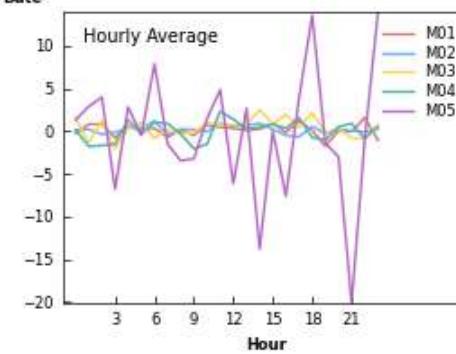
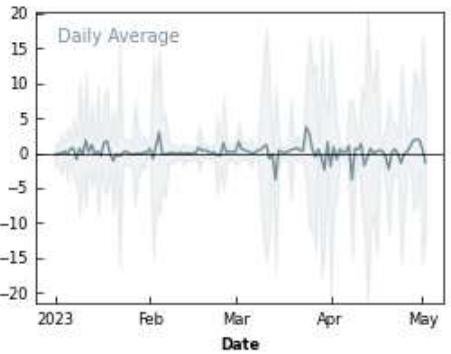
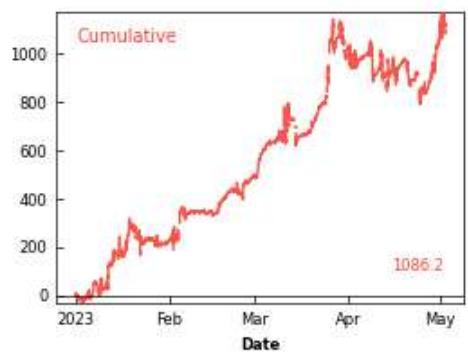
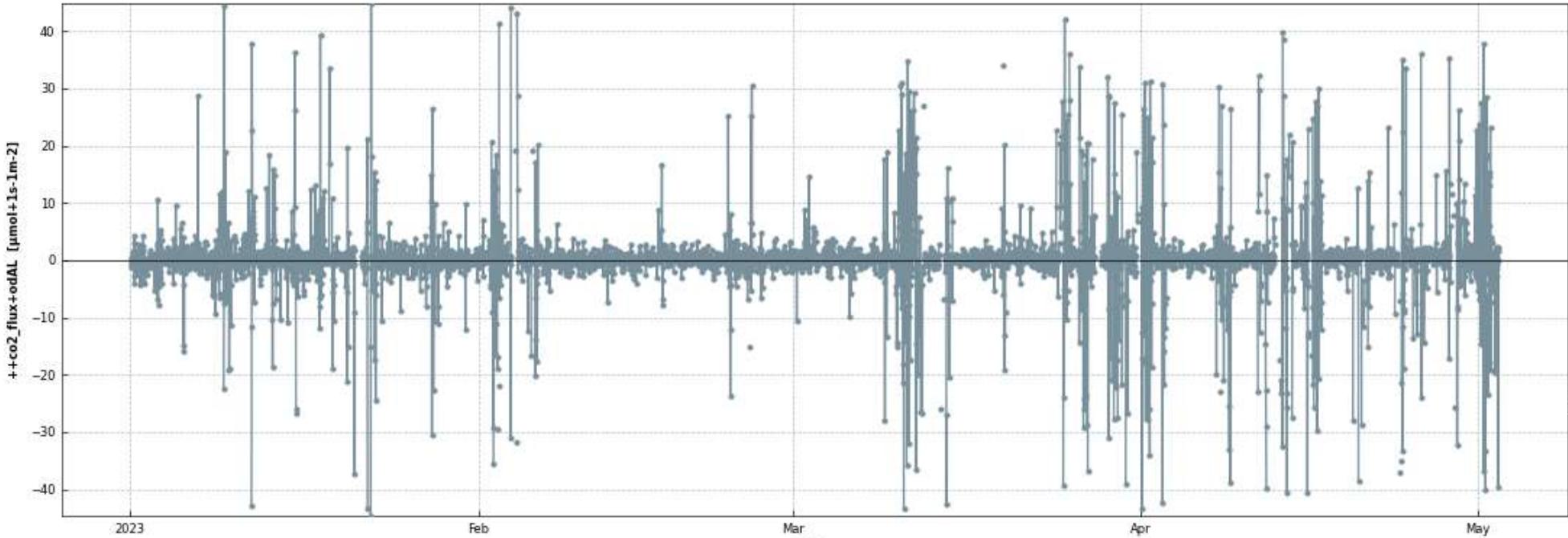




Photo: Luana Krebs



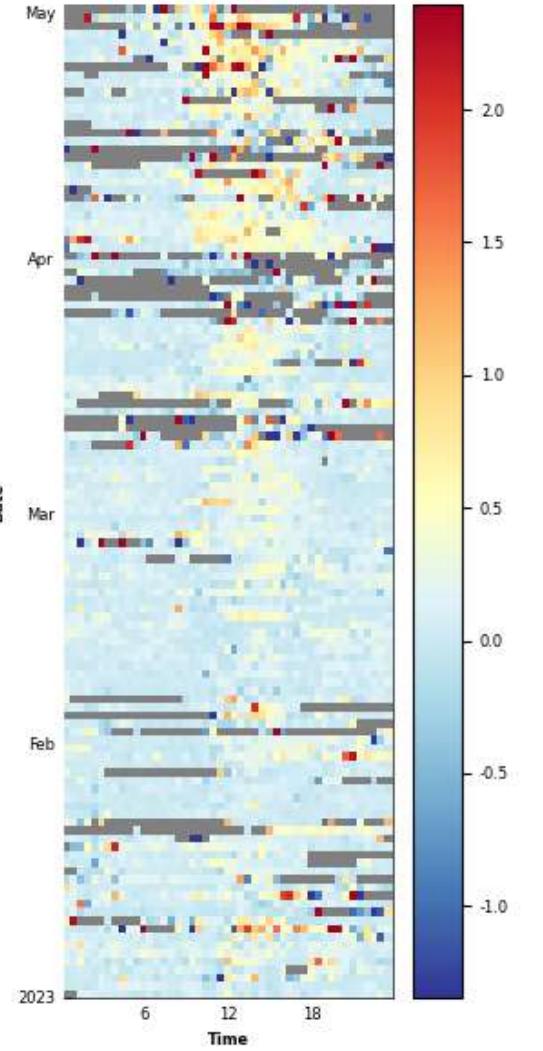
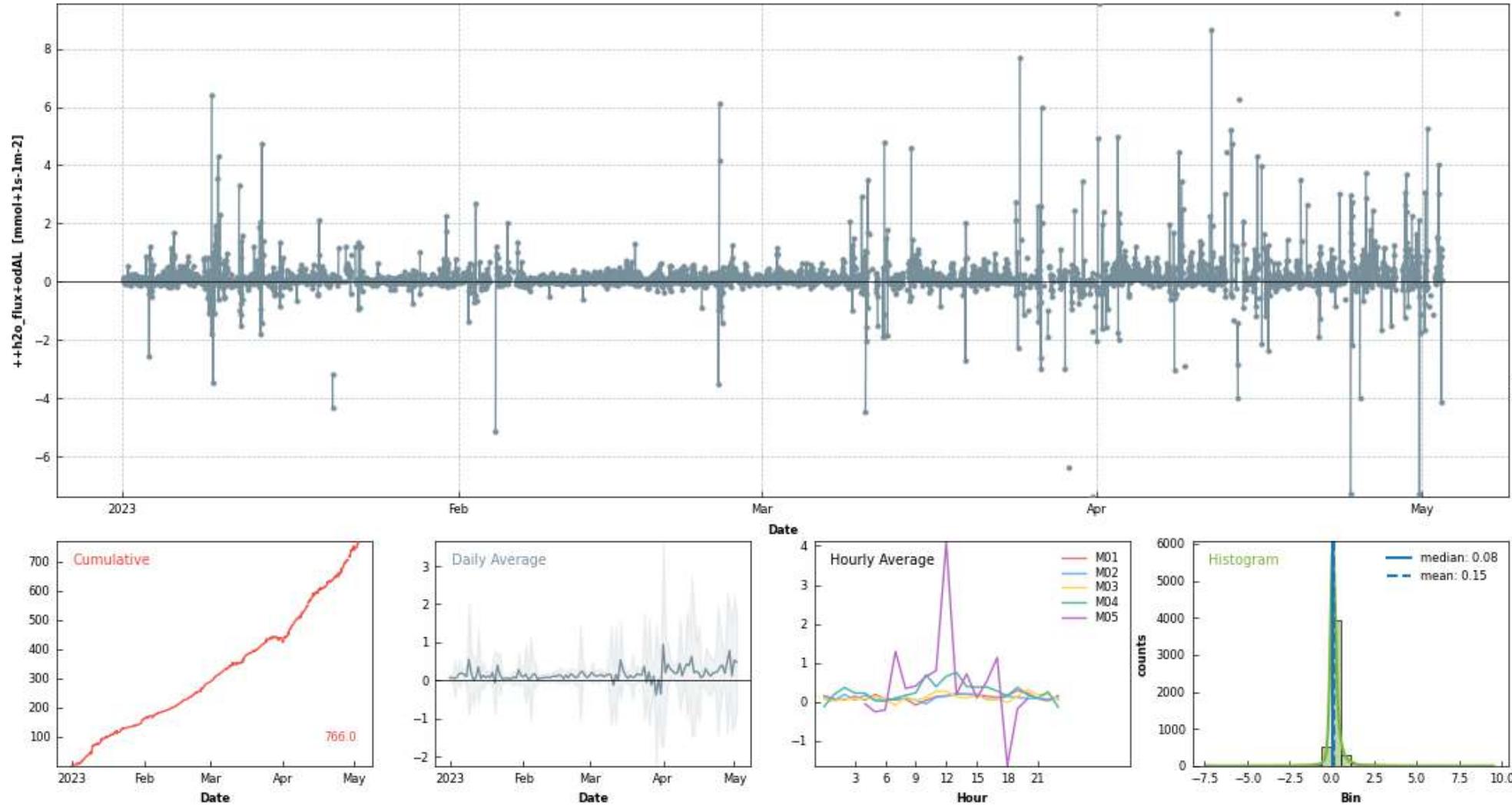
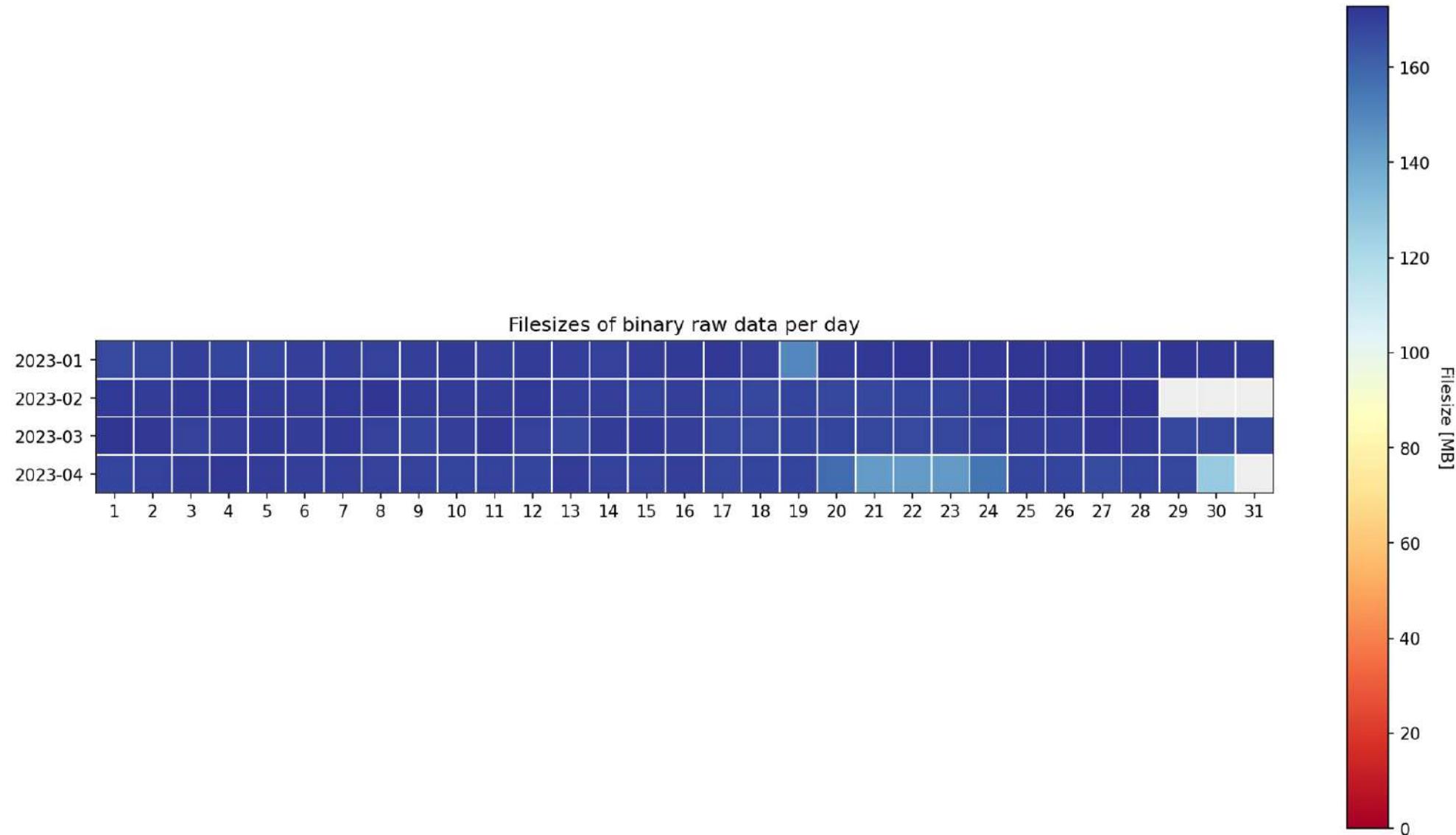
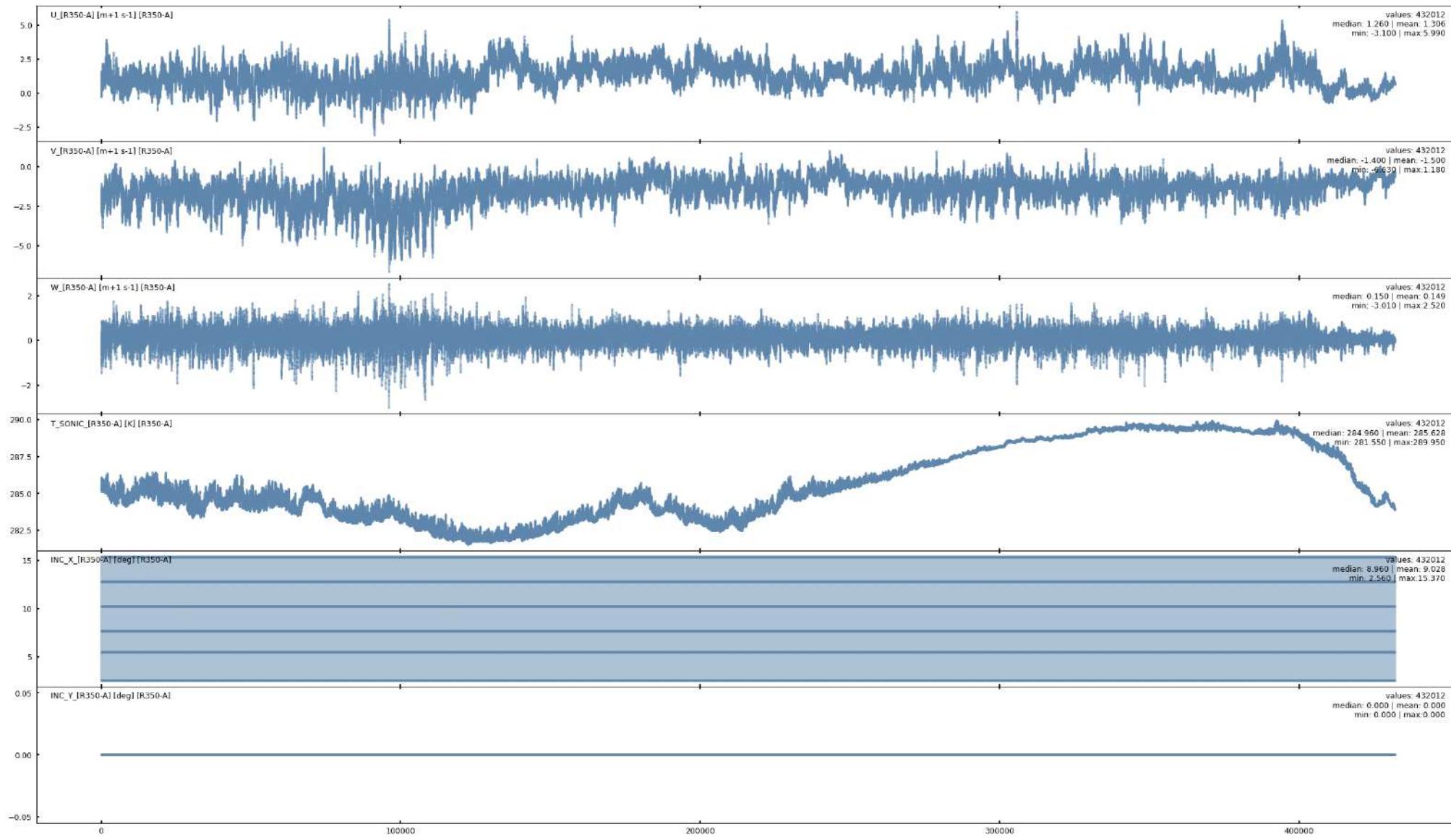


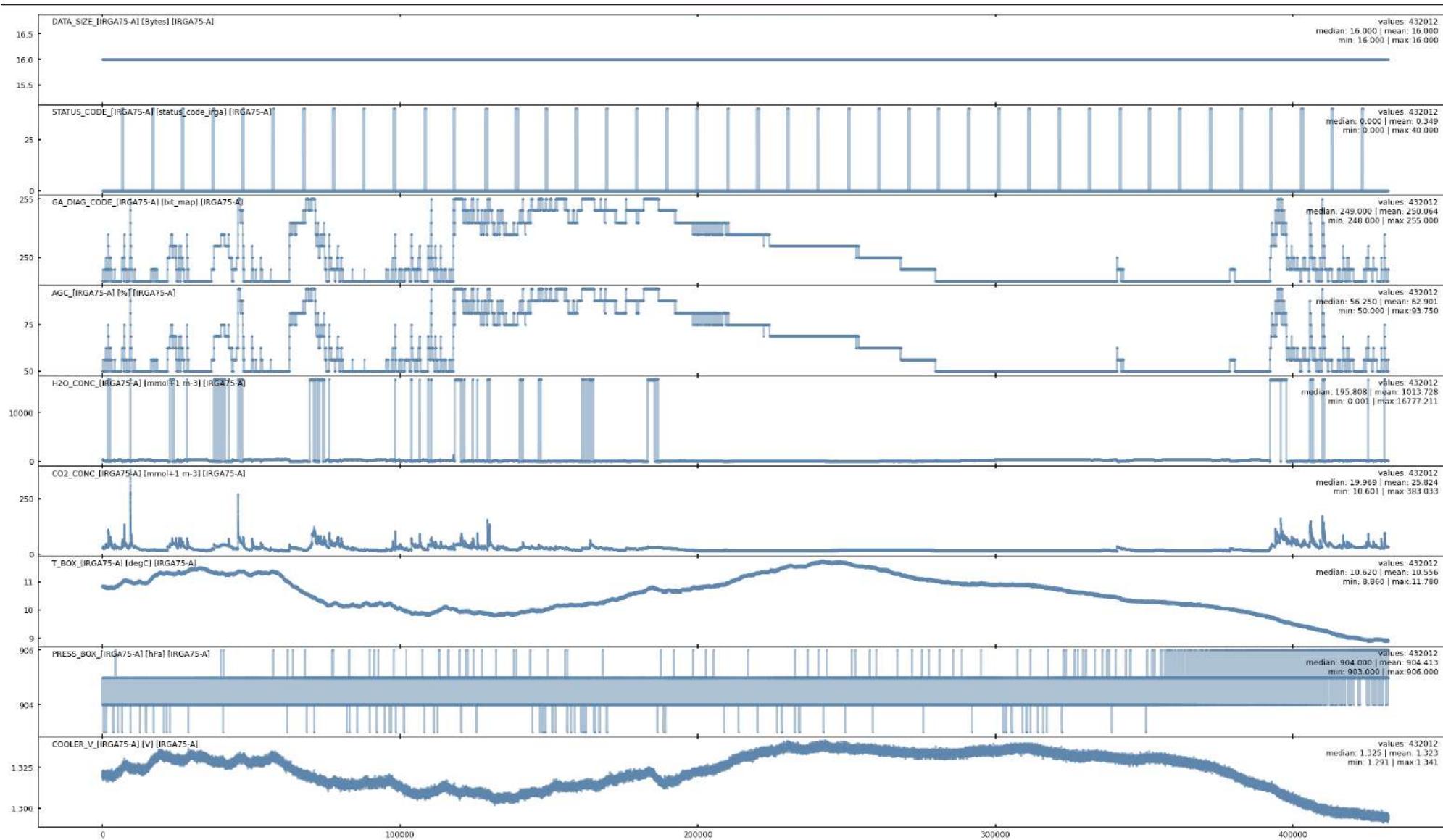


Photo: Lukas Hörtnagl

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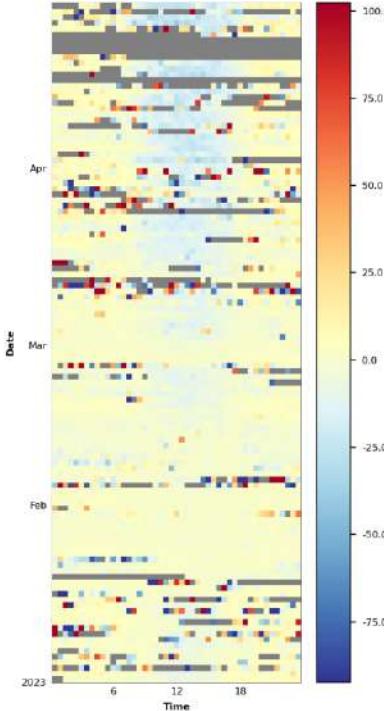
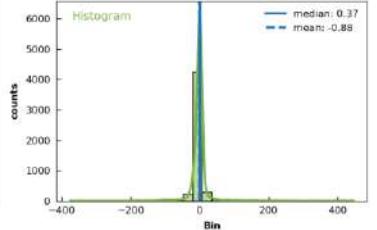
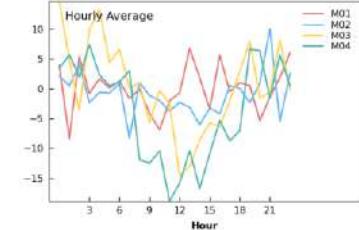
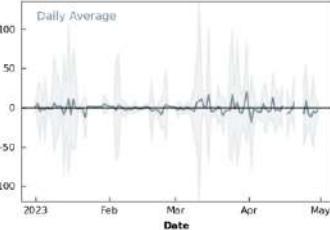
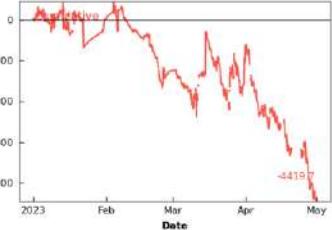
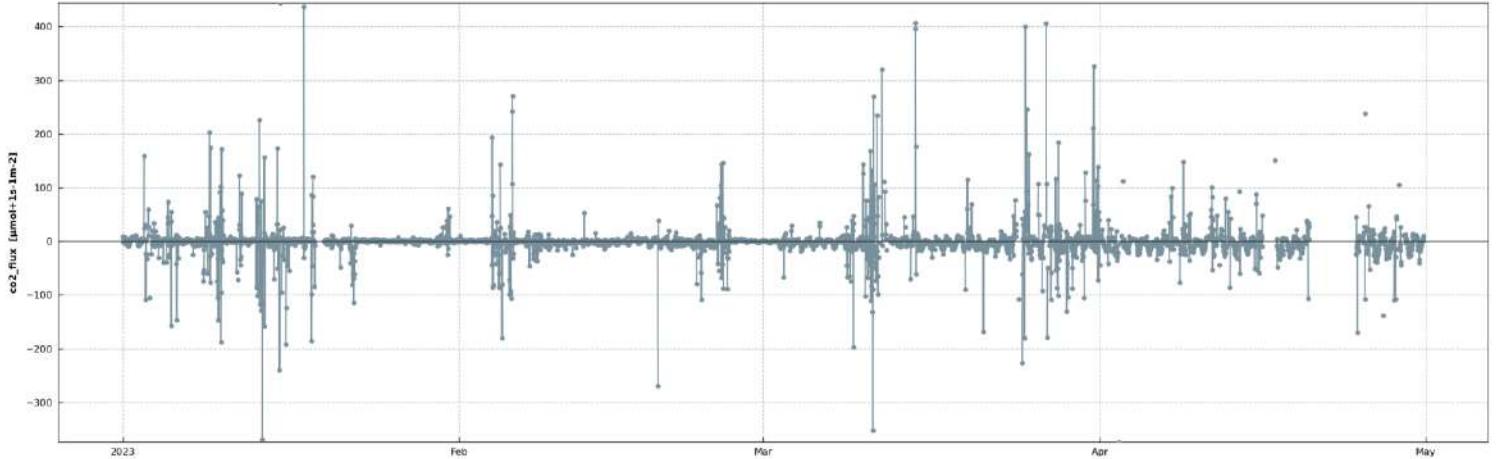




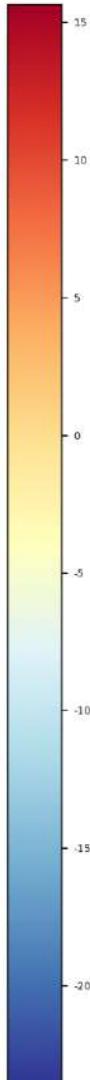
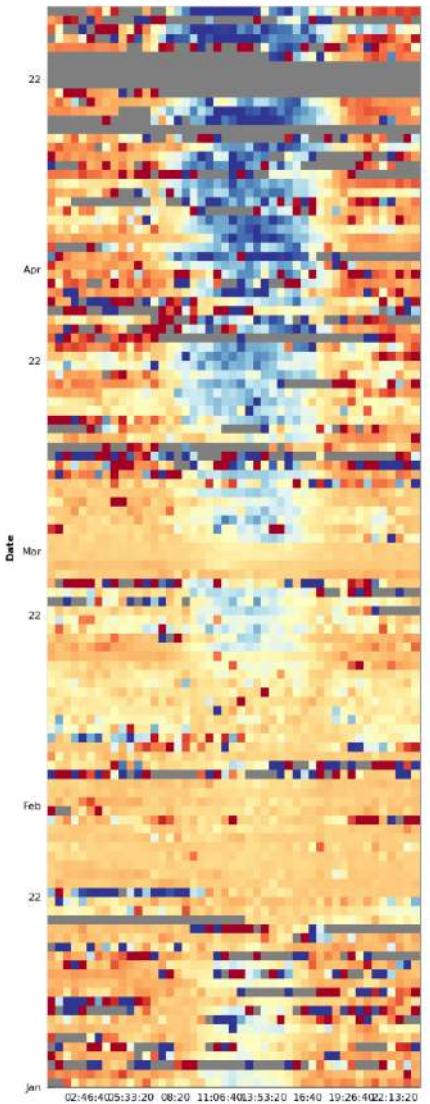


co2_flux [$\mu\text{mol}\cdot\text{s}^{-1}\cdot\text{m}^{-2}$]

START Year 2023 Month 1 Day 1 | END Year 2023 Month 4 Day 30 | Apply Reset

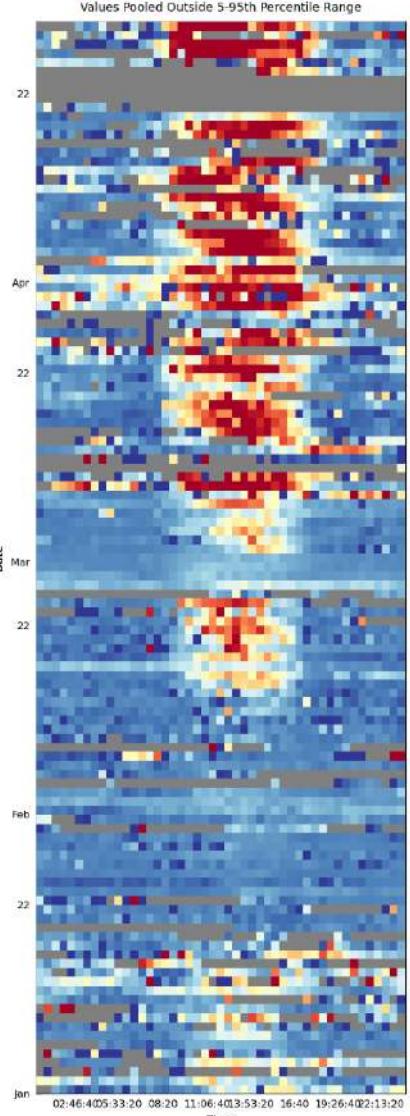
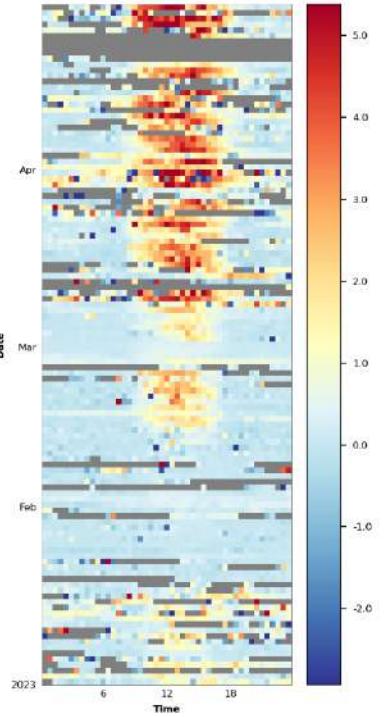
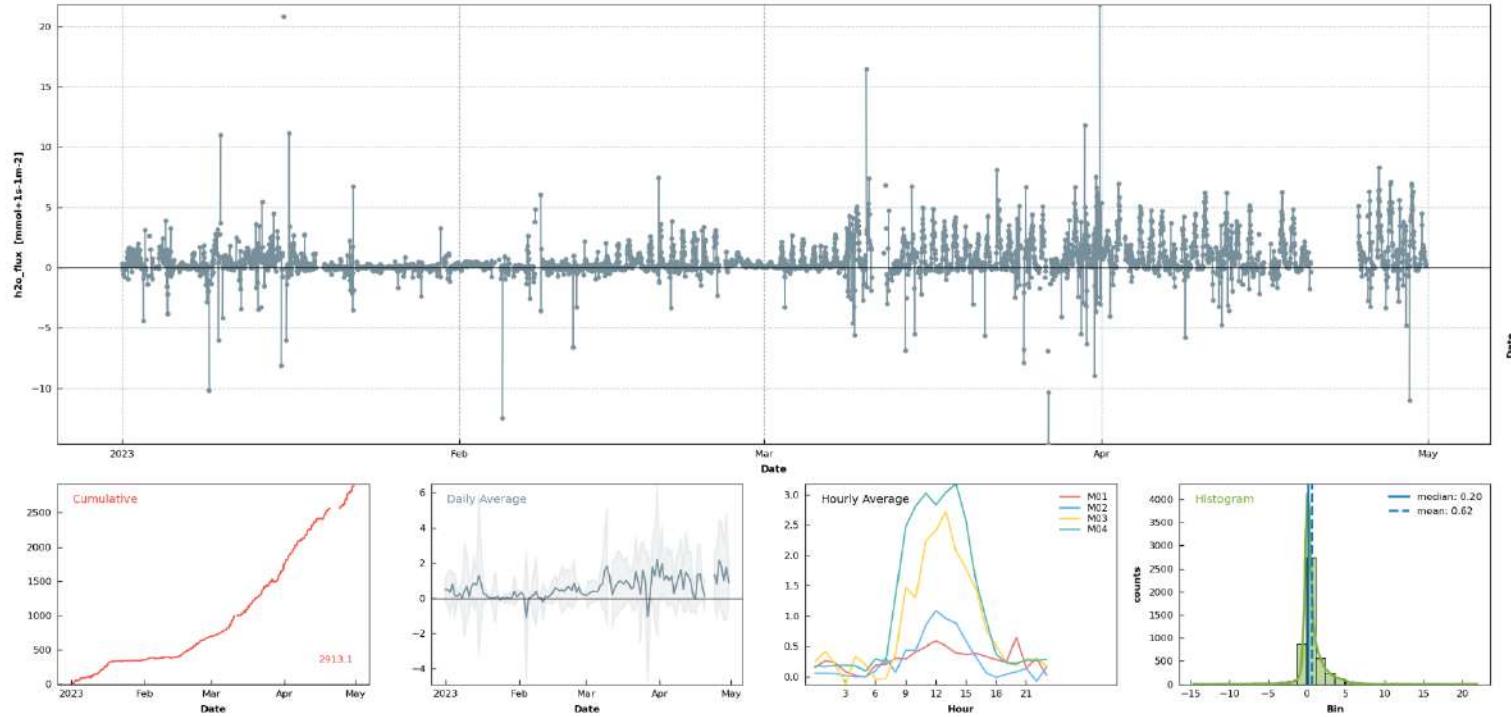


Values Pooled Outside 5-95th Percentile Range



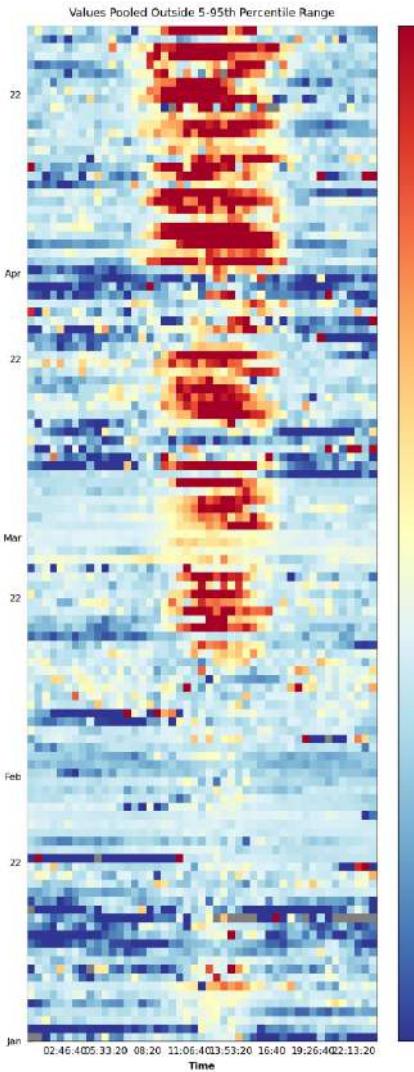
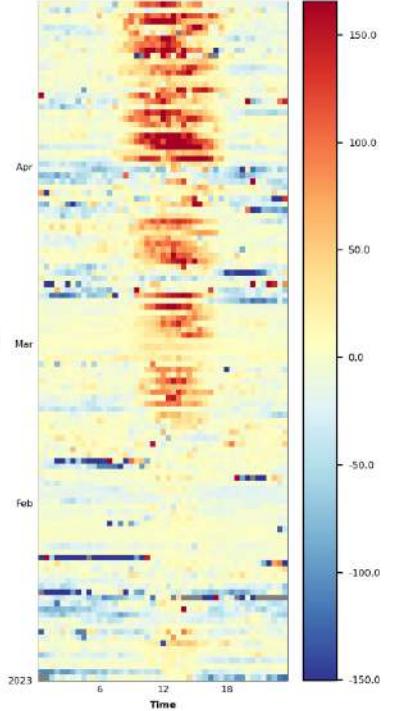
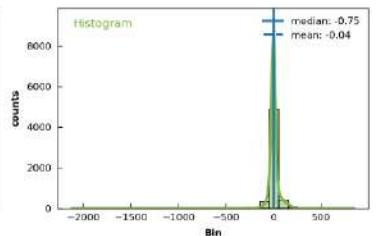
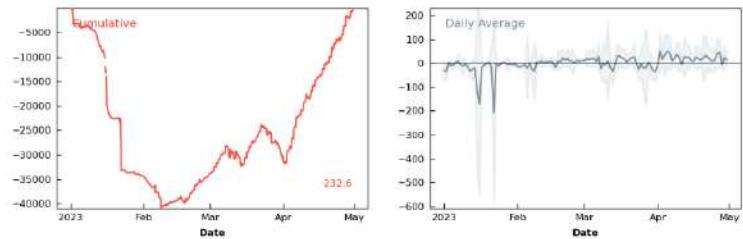
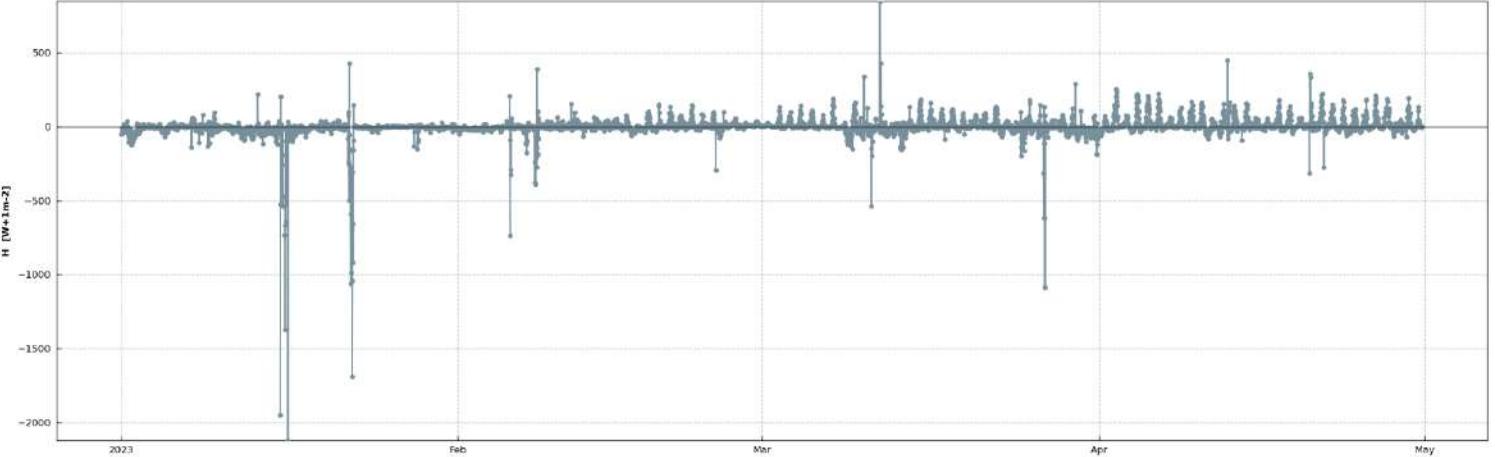
h2o_flux [mmol+1s-1m-2]

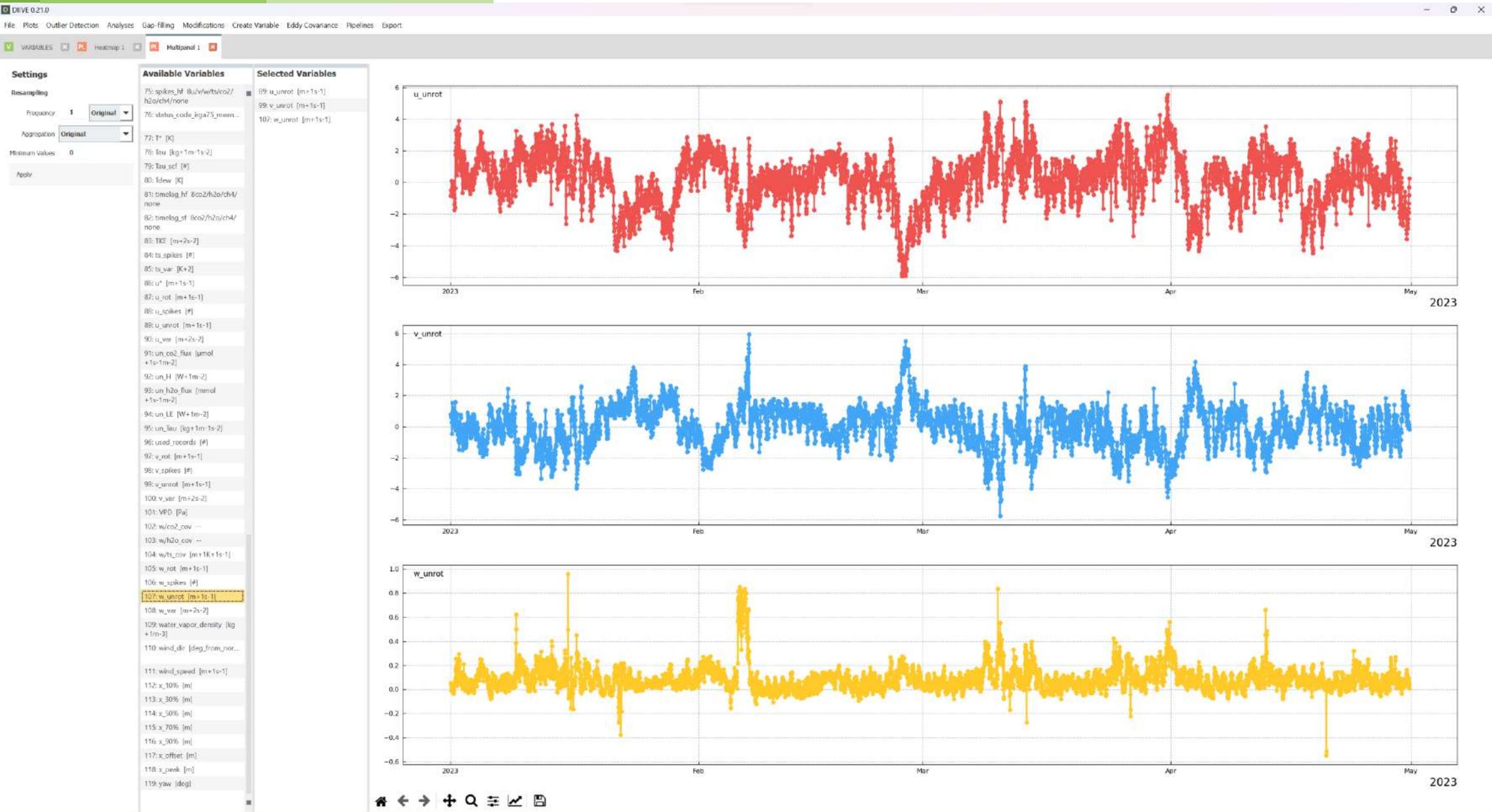
START Year 2023 Month 1 Day 1 | END Year 2023 Month 4 Day 30 | Apply Reset



H [W+1m⁻²]

START Year 2023 Month 1 Day 1 | END Year 2023 Month 4 Day 30 | Apply Reset





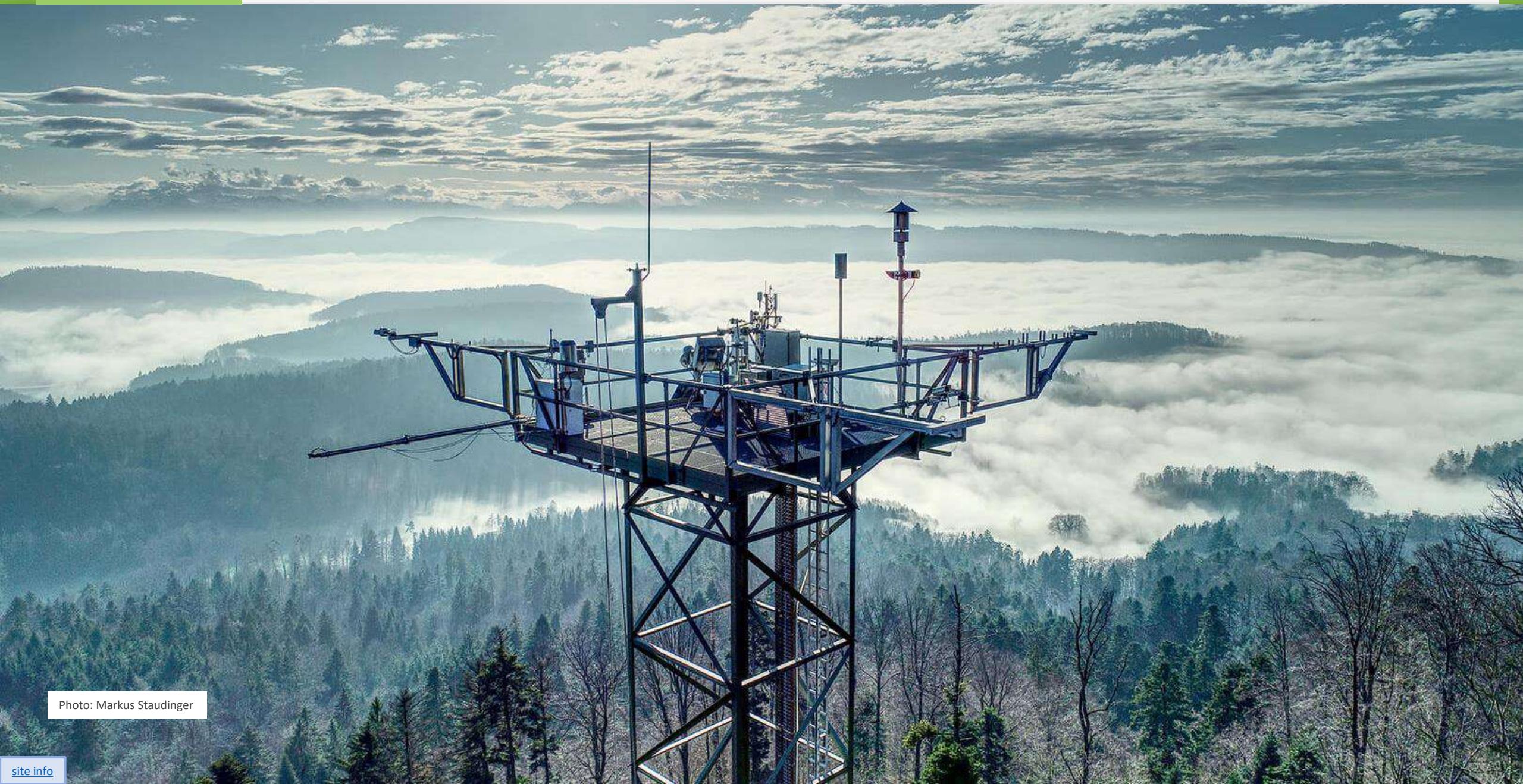
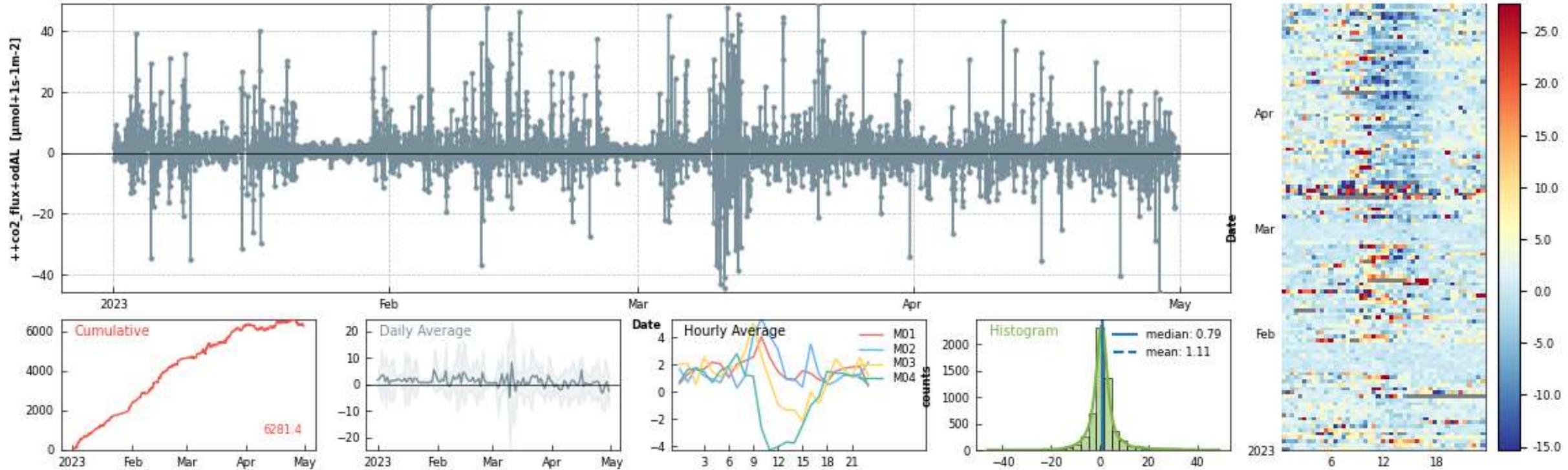
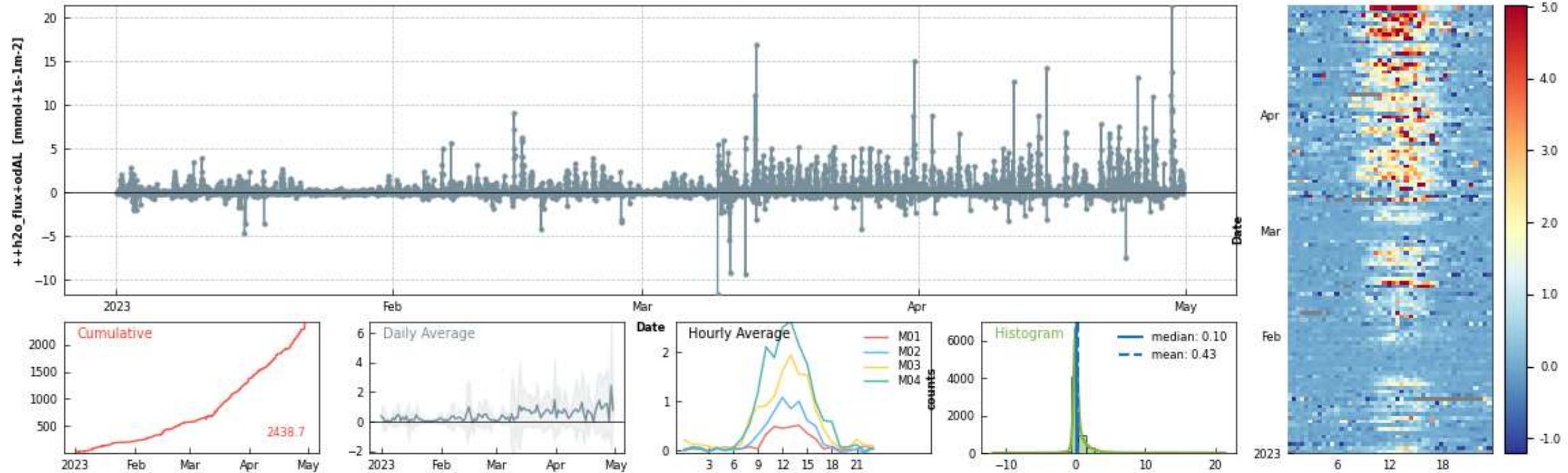


Photo: Markus Staudinger





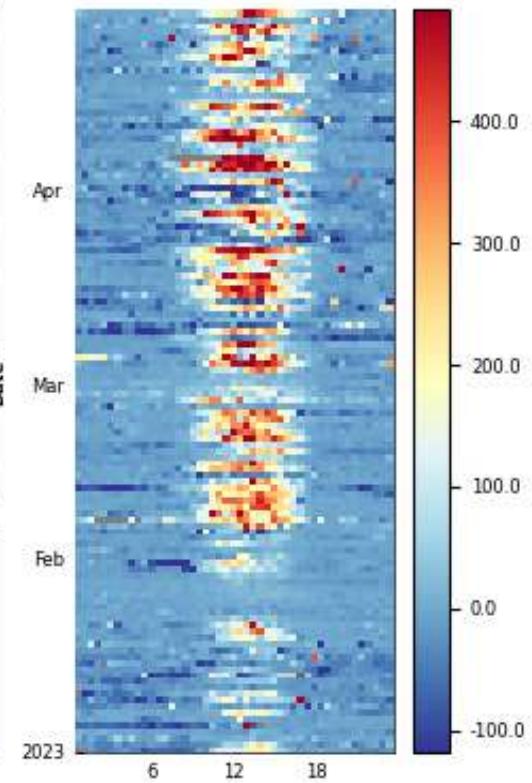
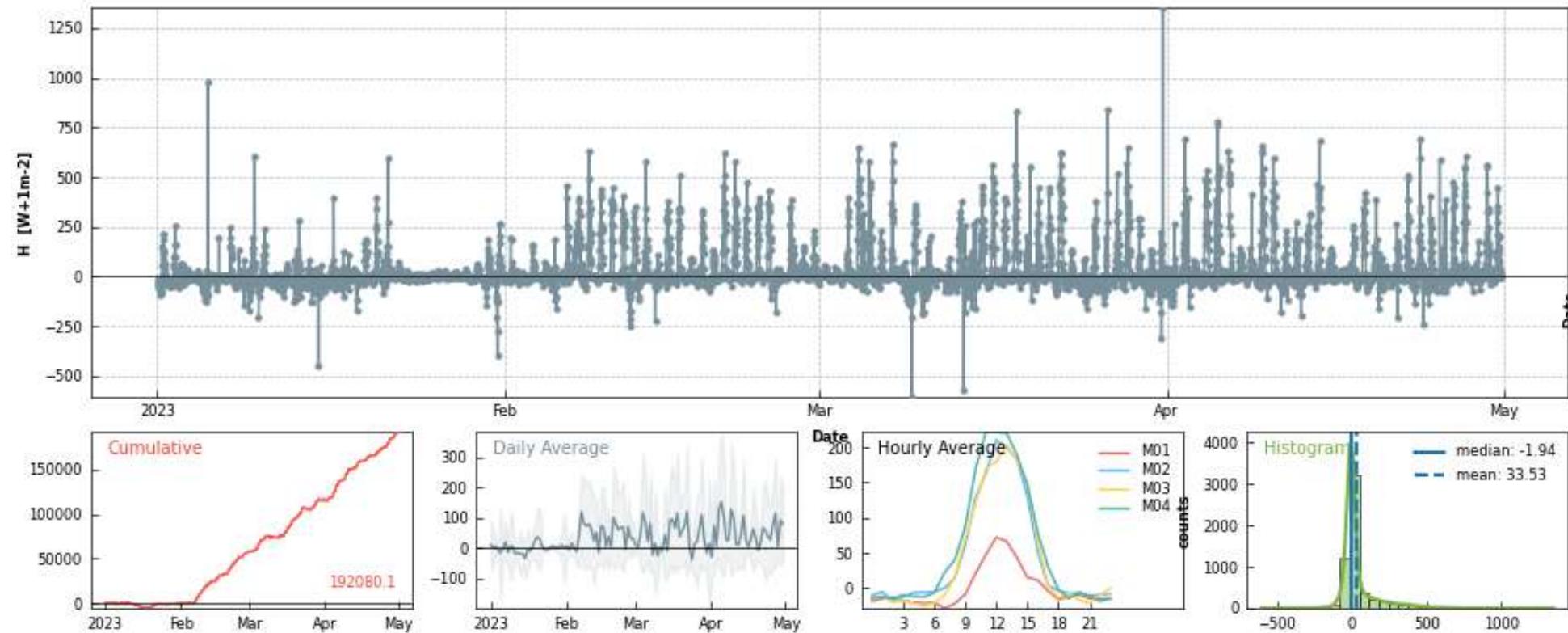
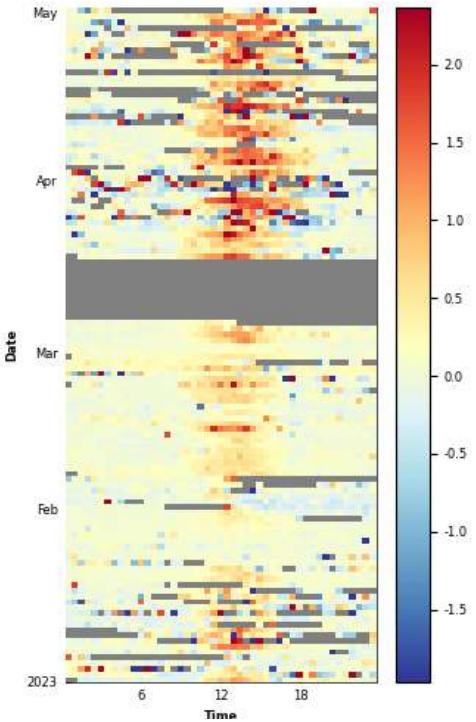
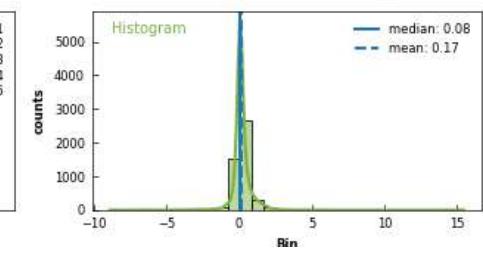
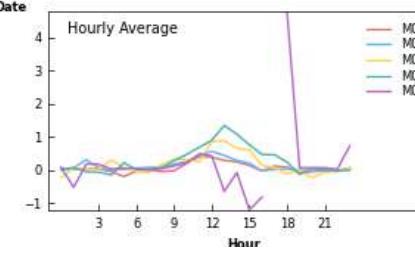
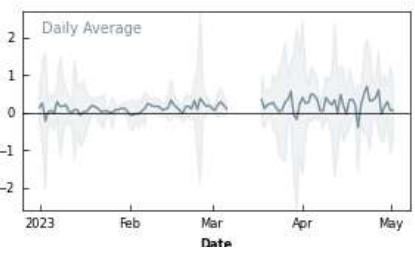
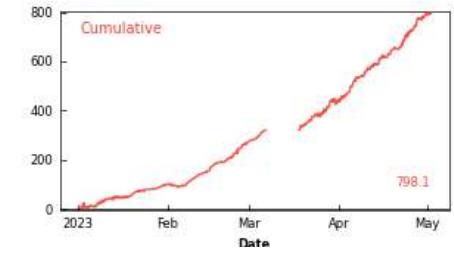
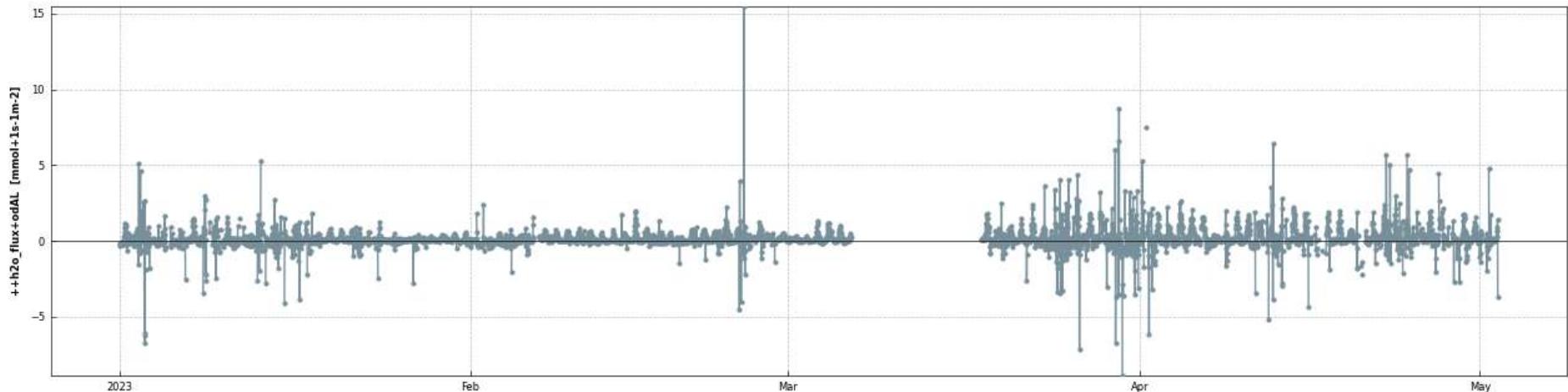
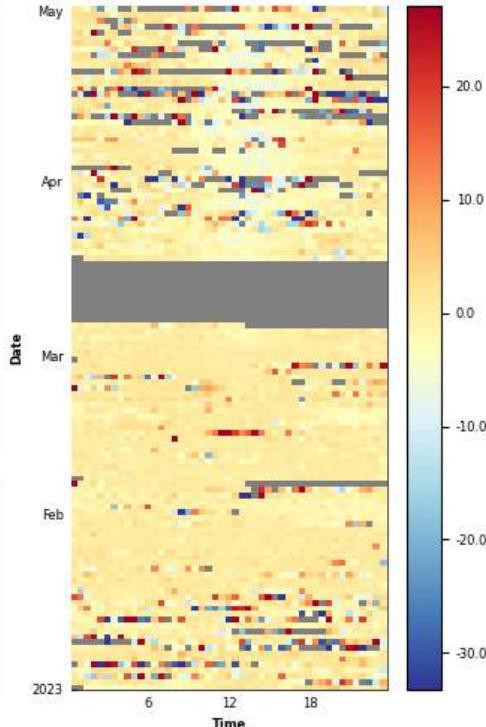
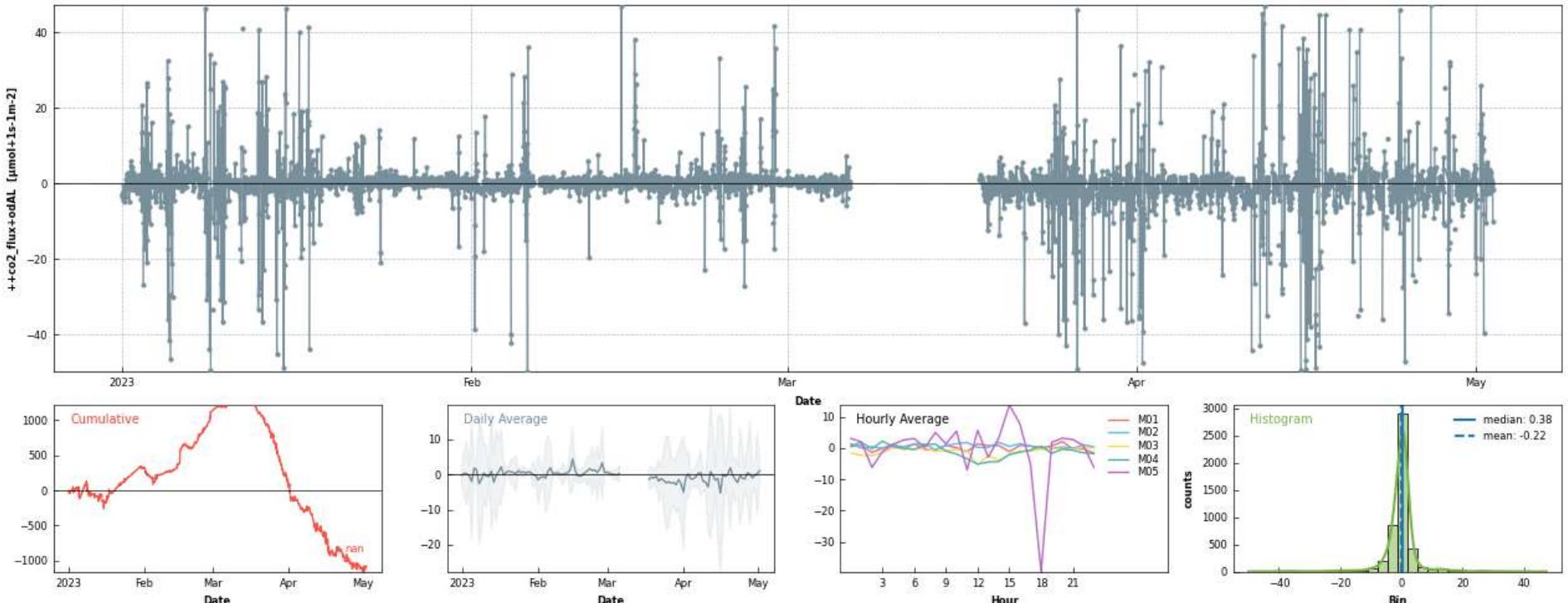




Photo: ETH GL Group

39.





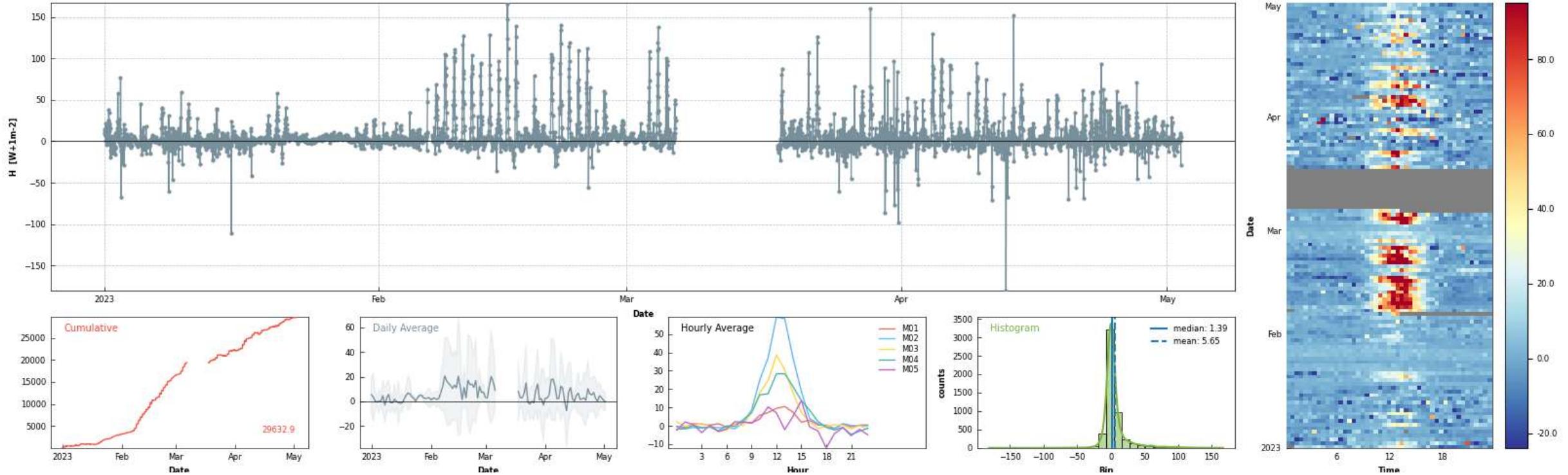
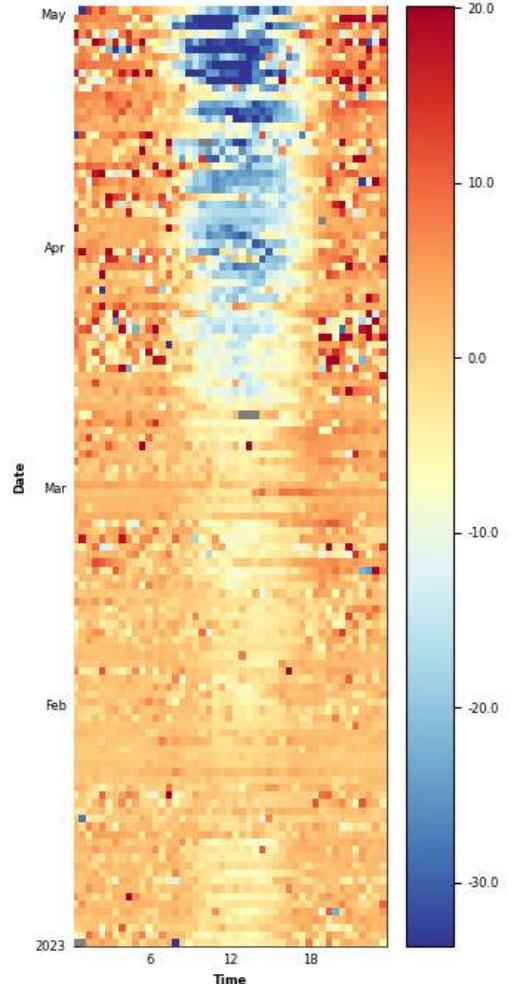
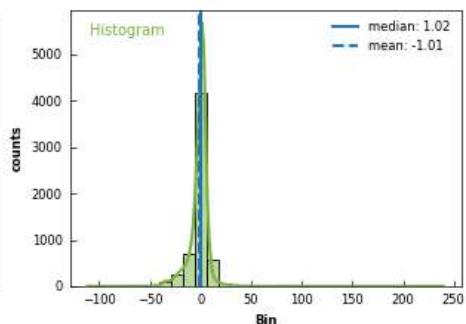
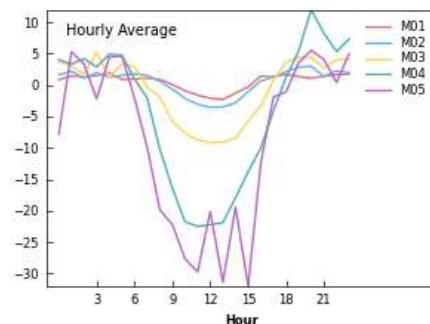
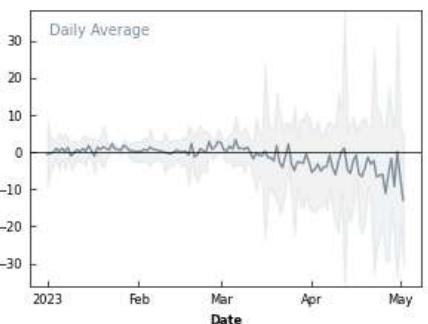
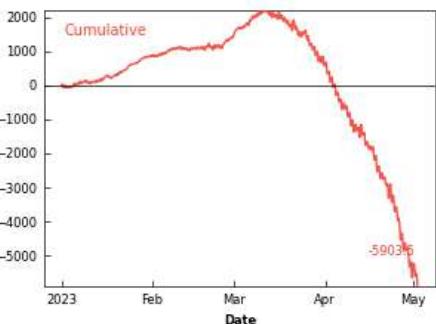
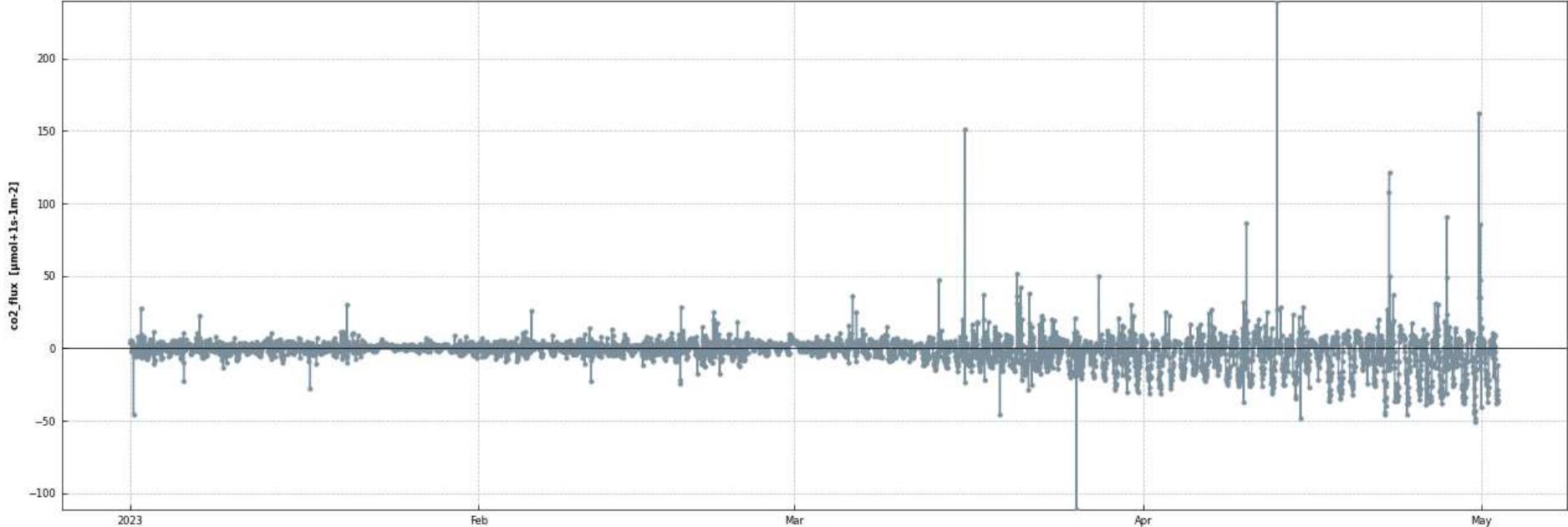


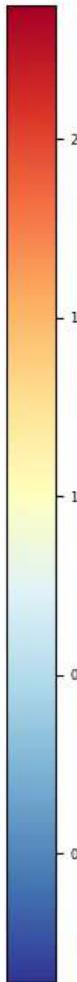
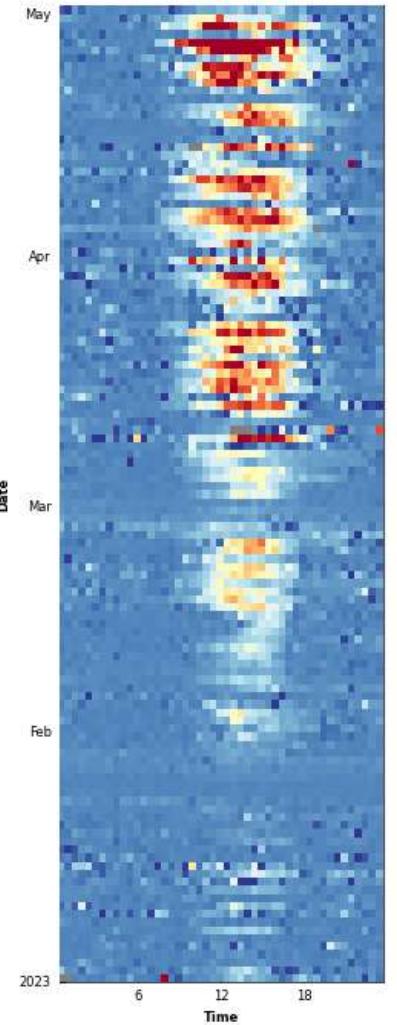
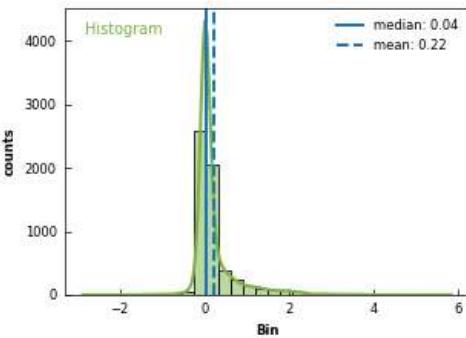
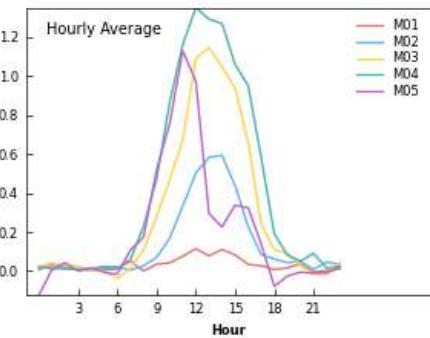
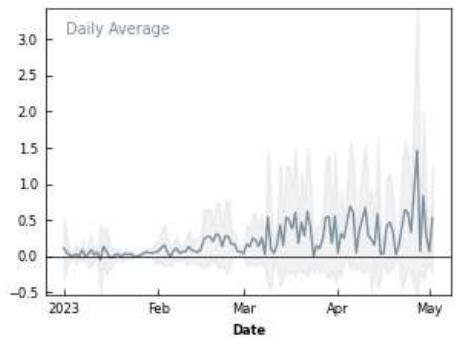
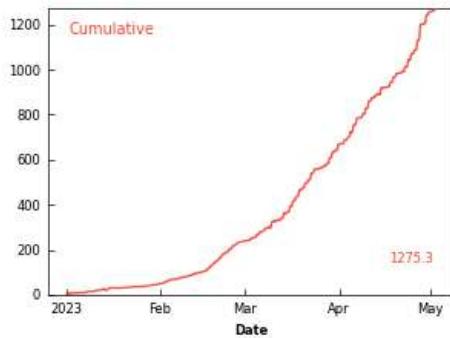
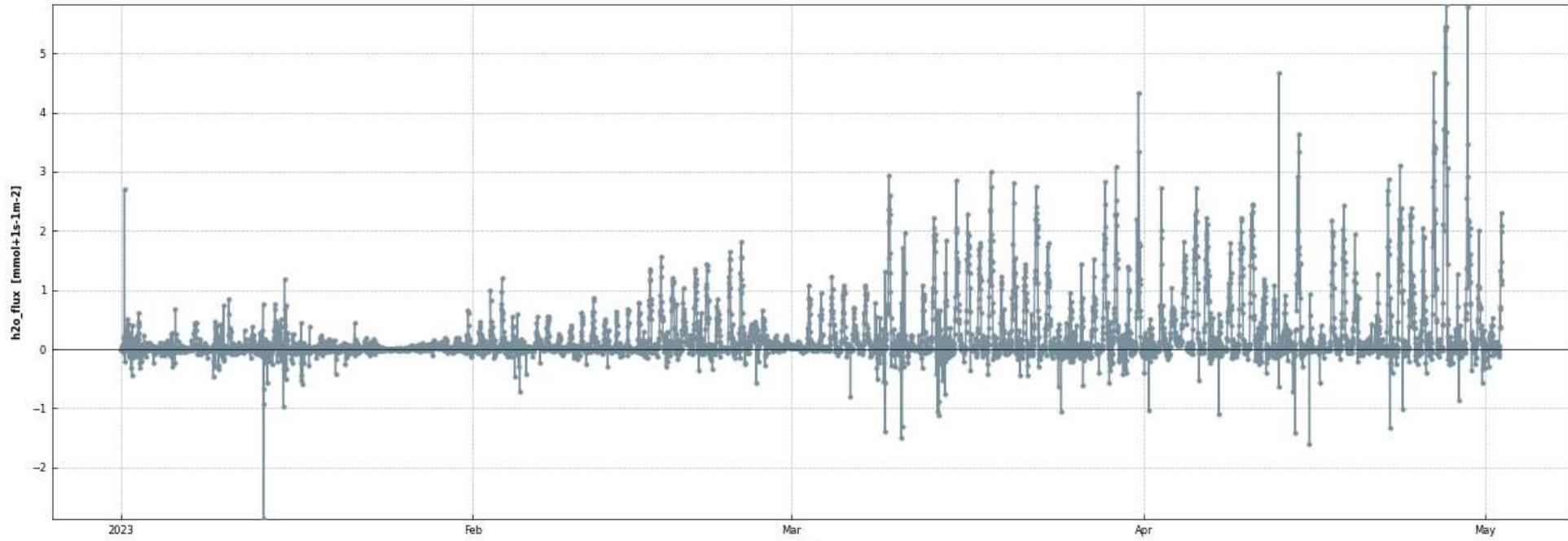


Photo: Regine Maier

co2_flux [$\mu\text{mol+1s-1m-2}$]
 START Year Month Day | END Year Month Day


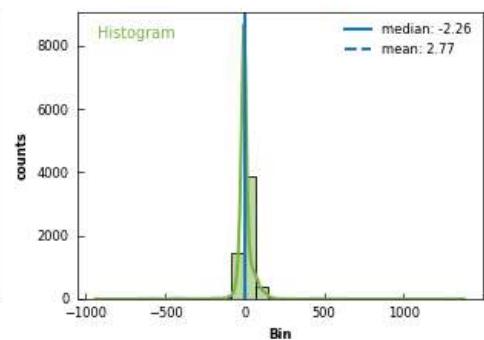
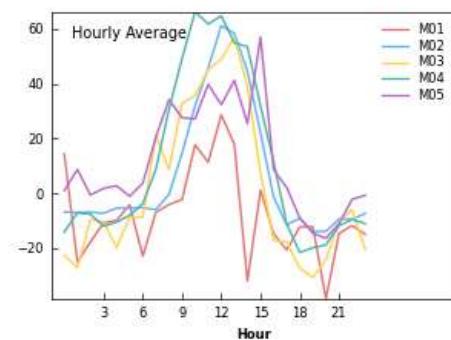
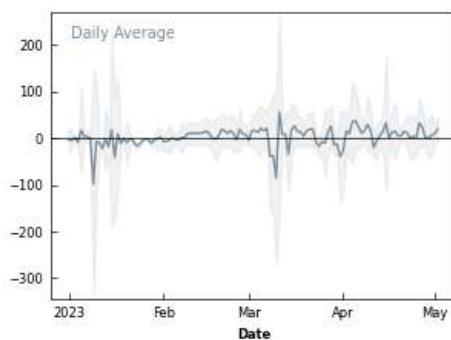
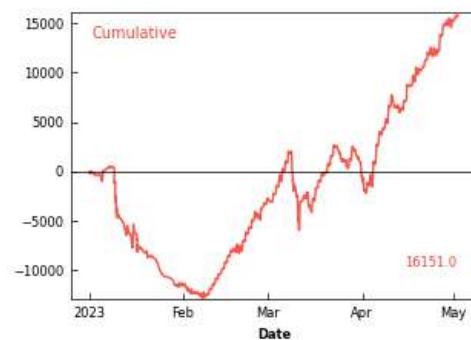
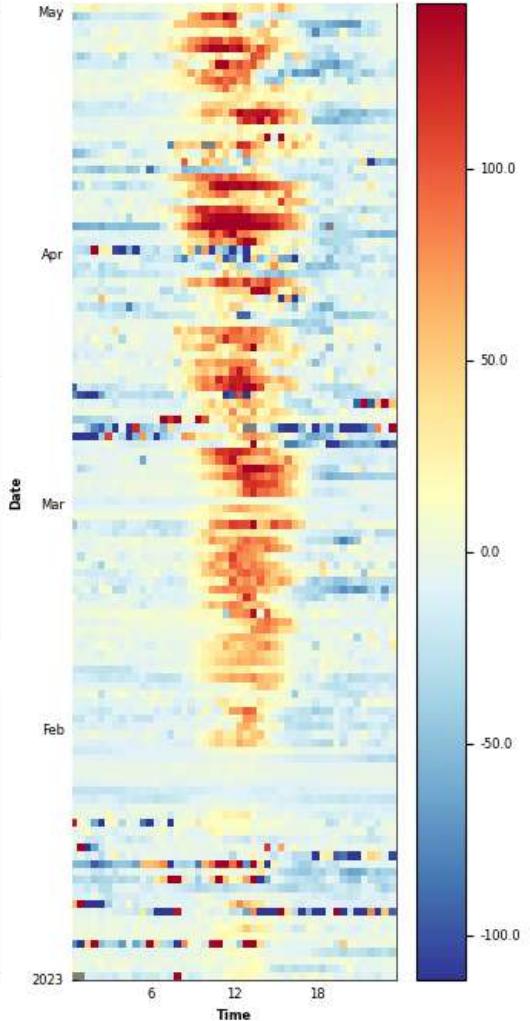
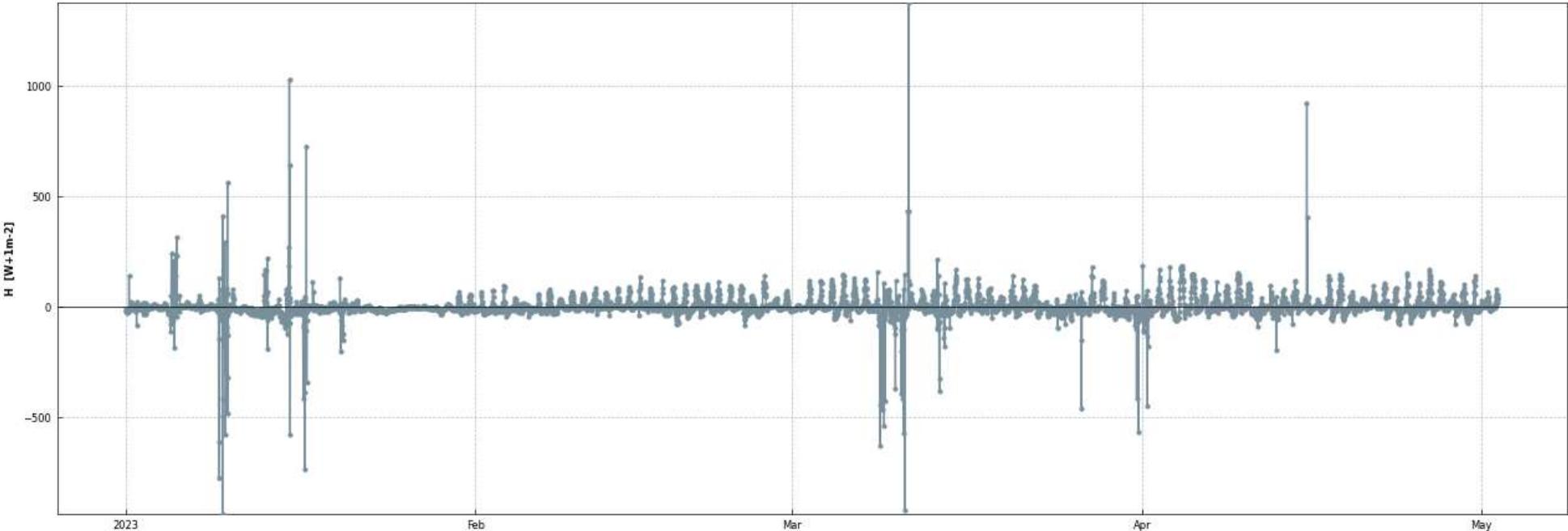
h2o_flux [mmol+1s-1m-2]

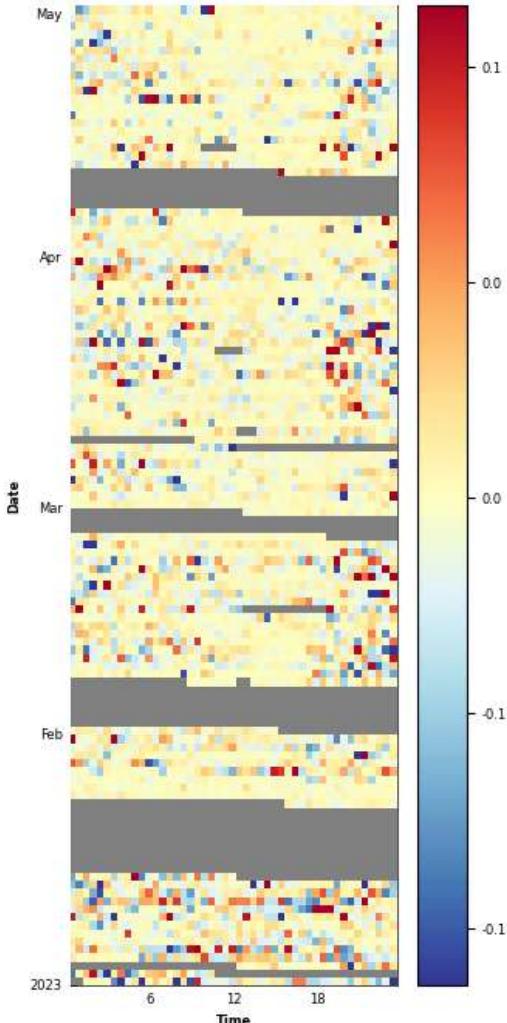
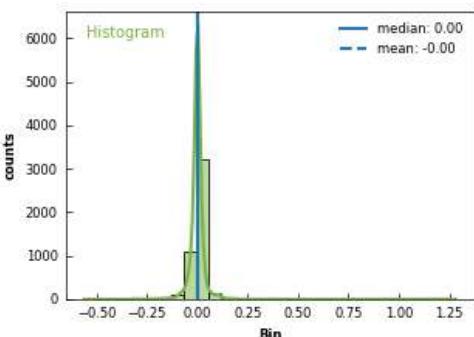
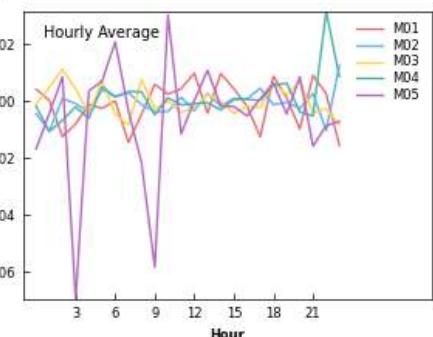
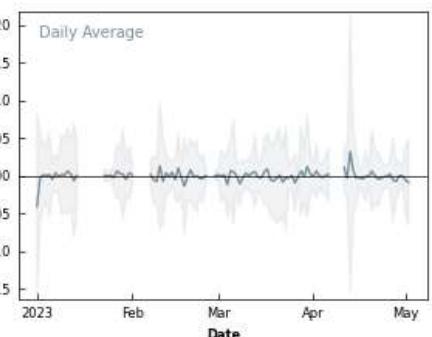
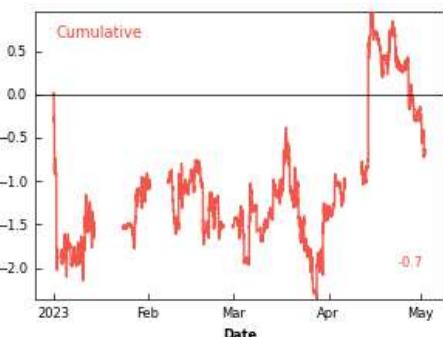
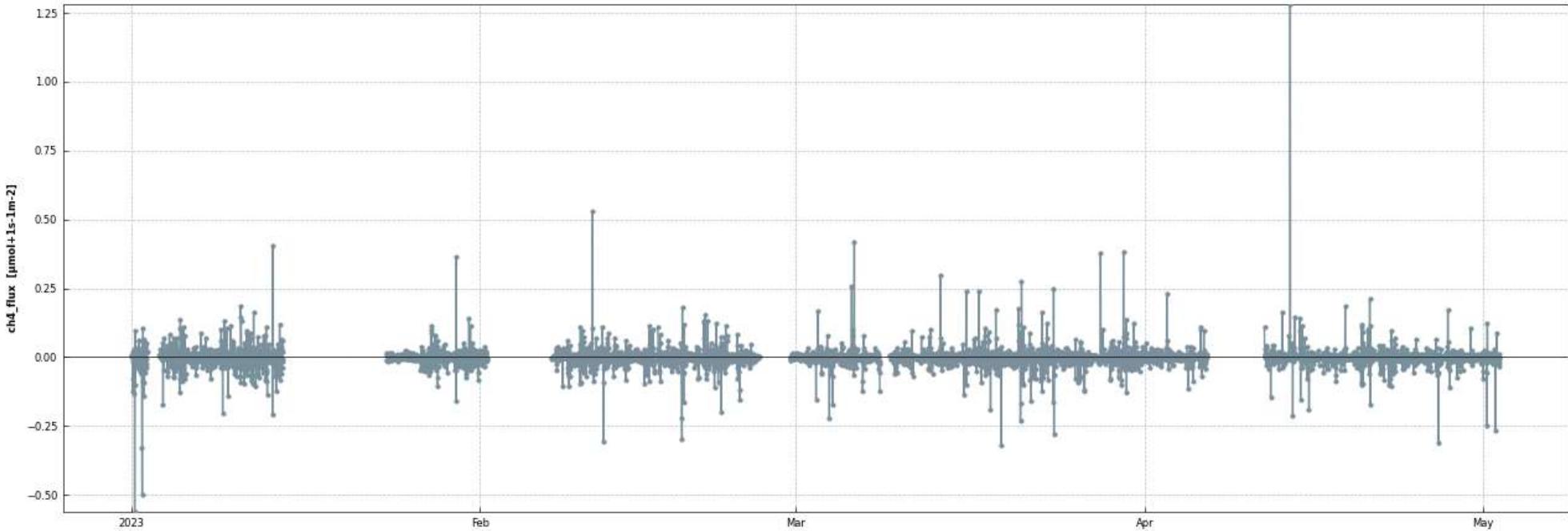
START Year 2023 Month 1 Day 1 | END Year 2023 Month 5 Day 2 | Apply Reset



H [W+1m-2]

START Year 2023 Month 1 Day 1 | END Year 2023 Month 5 Day 2 | Apply Reset



ch4_flux [$\mu\text{mol+1s-1m-2}$]
 START Year Month Day | END Year Month Day


n2o_flux [$\mu\text{mol}\cdot\text{s}^{-1}\text{m}^{-2}$]

START Year 2023 Month 1 Day 1 | END Year 2023 Month 5 Day 2 | Apply Res

