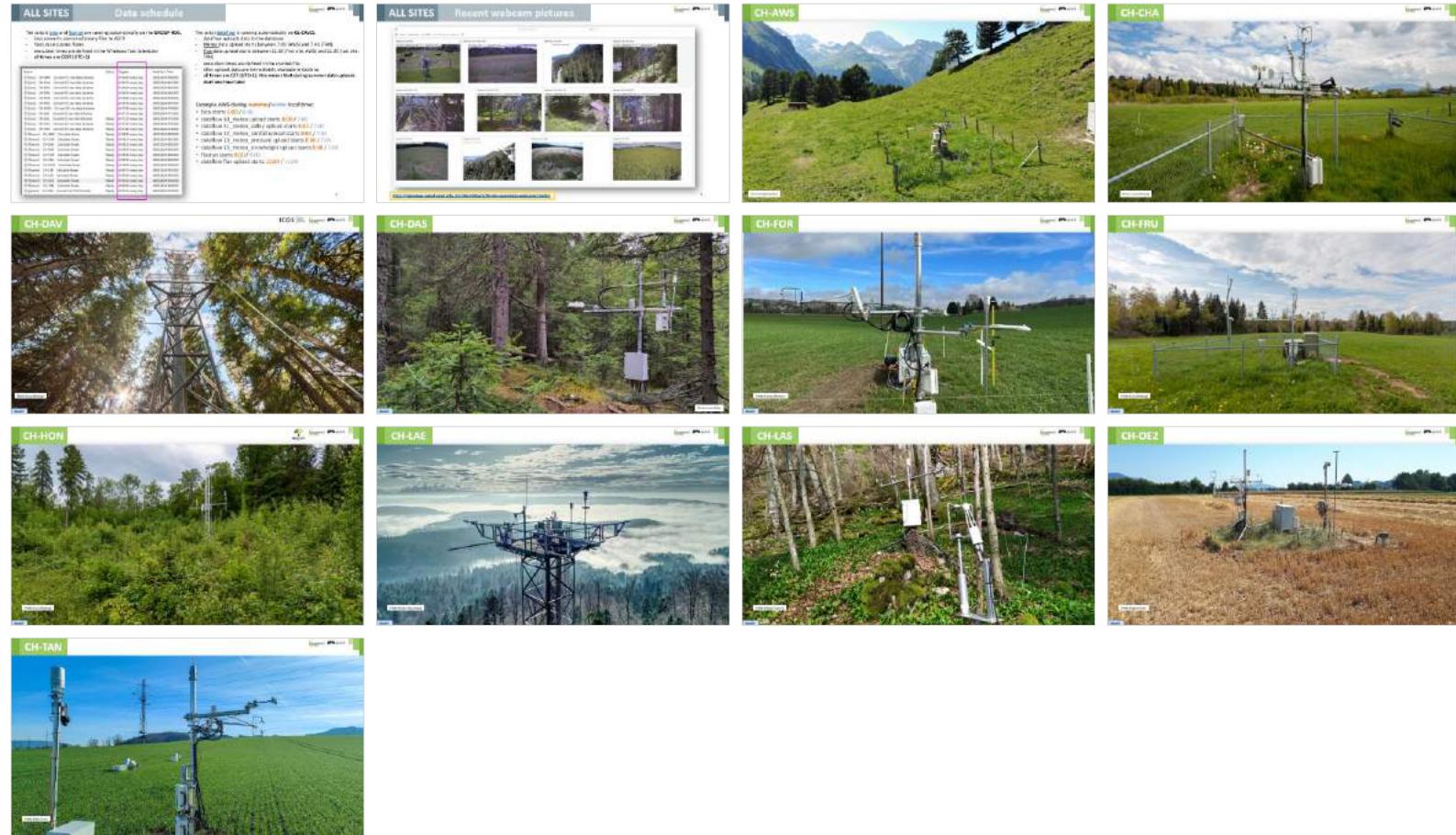


QA/QC Meeting

19 Jun 2024

Participants: LH, PM, MR, LS, IF, LK, YW, TB, +1 (9)



The scripts [bico](#) and [fluxrun](#) are running automatically on the **GROUP-RDS**.

- bico converts sonicread binary files to ASCII
- fluxrun calculates fluxes
- execution times are defined in the Windows Task Scheduler
- **all times are CEST (UTC+2)**

Name	Status	Triggers	Next Run Time
[bico] CH-AWS Convert EC raw data binaries		At 06:00 every day	28.05.2024 06:00:00
[bico] CH-CHA Convert EC raw data binaries		At 06:10 every day	28.05.2024 06:10:00
[bico] CH-DAS Convert EC raw data binaries		At 06:20 every day	28.05.2024 06:20:00
[bico] CH-DAV Convert EC raw data binaries		At 06:30 every day	28.05.2024 06:30:00
[bico] CH-FOR Convert EC raw data binaries		At 06:40 every day	28.05.2024 06:40:00
[bico] CH-FRU Convert EC raw data binaries		At 06:50 every day	28.05.2024 06:50:00
[bico] CH-HON Convert EC raw data binaries		At 07:00 every day	28.05.2024 07:00:00
[bico] CH-LAE Convert EC raw data binaries		At 07:10 every day	28.05.2024 07:10:00
[bico] CH-LAS Convert EC raw data binaries	Ready	At 07:20 every day	28.05.2024 07:20:00
[bico] CH-OE2 Convert EC raw data binaries	Ready	At 07:30 every day	28.05.2024 07:30:00
[bico] CH-TAN Convert EC raw data binaries	Ready	At 07:40 every day	28.05.2024 07:40:00
[fluxrun] CH-AWS Calculate fluxes	Ready	At 08:00 every day	28.05.2024 08:00:00
[fluxrun] CH-CHA Calculate fluxes	Ready	At 08:10 every day	28.05.2024 08:10:00
[fluxrun] CH-DAS Calculate fluxes	Ready	At 08:20 every day	28.05.2024 08:20:00
[fluxrun] CH-DAV Calculate fluxes	Ready	At 08:30 every day	28.05.2024 08:30:00
[fluxrun] CH-FOR Calculate fluxes	Ready	At 08:40 every day	28.05.2024 08:40:00
[fluxrun] CH-FRU Calculate fluxes	Ready	At 08:50 every day	28.05.2024 08:50:00
[fluxrun] CH-HON Calculate fluxes	Ready	At 09:00 every day	28.05.2024 09:00:00
[fluxrun] CH-LAE Calculate fluxes	Ready	At 09:10 every day	28.05.2024 09:10:00
[fluxrun] CH-LAS Calculate fluxes	Ready	At 09:20 every day	28.05.2024 09:20:00
[fluxrun] CH-OE2 Calculate fluxes	Ready	At 09:30 every day	28.05.2024 09:30:00
[fluxrun] CH-TAN Calculate fluxes	Ready	At 09:40 every day	28.05.2024 09:40:00
[ppicos] CH-DAV Convert to ICOS formats	Ready	At 03:35 every day	28.05.2024 03:35:00

The script [dataflow](#) is running automatically on **GL-CALCS**.

- dataflow uploads data to the database
- [Meteo](#) data upload starts between 7:00 (AWS) and 7:46 (TAN)
- [Flux](#) data upload starts between 11:00 (first site, AWS) and 11:20 (last site, TAN)
- execution times are defined in the *crontab* file
- after upload, data are immediately available in Grafana
- **all times are CET (UTC+1): this means that during summer data uploads start one hour later**

Example AWS during summer/winter local time:

- bico starts **6:00 / 6:00**
- dataflow 10_meteo upload starts **8:00 / 7:00**
- dataflow 11_meteo_valley upload starts **8:02 / 7:02**
- dataflow 12_meteo_rainfall upload starts **8:04 / 7:04**
- dataflow 13_meteo_pressure upload starts **8:06 / 7:06**
- dataflow 15_meteo_snowheight upload starts **8:08 / 7:08**
- fluxrun starts **8:00 / 8:00**
- dataflow flux upload starts **12:00 / 11:00**

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 and technical issues, started and will continue to take place. There are extensive notes available in the Data/FluxCoffee group on Microsoft Teams.
- **List of QA/QC Meeting dates:** [QA/QC Meetings 2024](#)

Home > Dashboards > ALL SITES > 30 - Site Overview: Webcams

Search or jump to... ctrl+k

Webcam | CH-AWS

CH-AWS_WEBCAM_M2_2.9_1-202406181230.jpg 2024-06-18 12:30:02



Webcam | CH-CHA | GF4

CH-CHA_GF4_1_1-202406171202.jpg 2024-06-17 12:02:01



Webcam | CH-DAV

CH-DAV_WEBCAM_T1_1-202406181200.jpg 2024-06-18 12:00:01



Webcam | CH-DAV | FF1

CH-DAV_WEBCAM_FF1_0_1-202406181201.jpg 2024-06-18 12:01:01



Webcam | CH-DAV | FF2

CH-DAV_WEBCAM_FF2_0_1-202406181202.jpg 2024-06-18 12:29:15



Webcam | CH-DAV | FF3

CH-DAV_WEBCAM_FF3_0_1-202406181203.jpg 2024-06-18 12:30:15



Webcam | CH-DAV | FF4

CH-DAV_WEBCAM_FF4_0_1-202406181204.jpg 2024-06-18 12:02:30



Webcam | CH-DAV | FF5

CH-DAV_WEBCAM_FF5_0_1-202406181205.jpg 2024-06-18 11:56:30



Webcam | CH-FRU

CH-FRU_GF1_1_1-202406181230.jpg



Webcam | CH-LAE

CH-LAE_PHOCAM_T1_0_1-202406181200.jpg



Webcam | CH-OE2

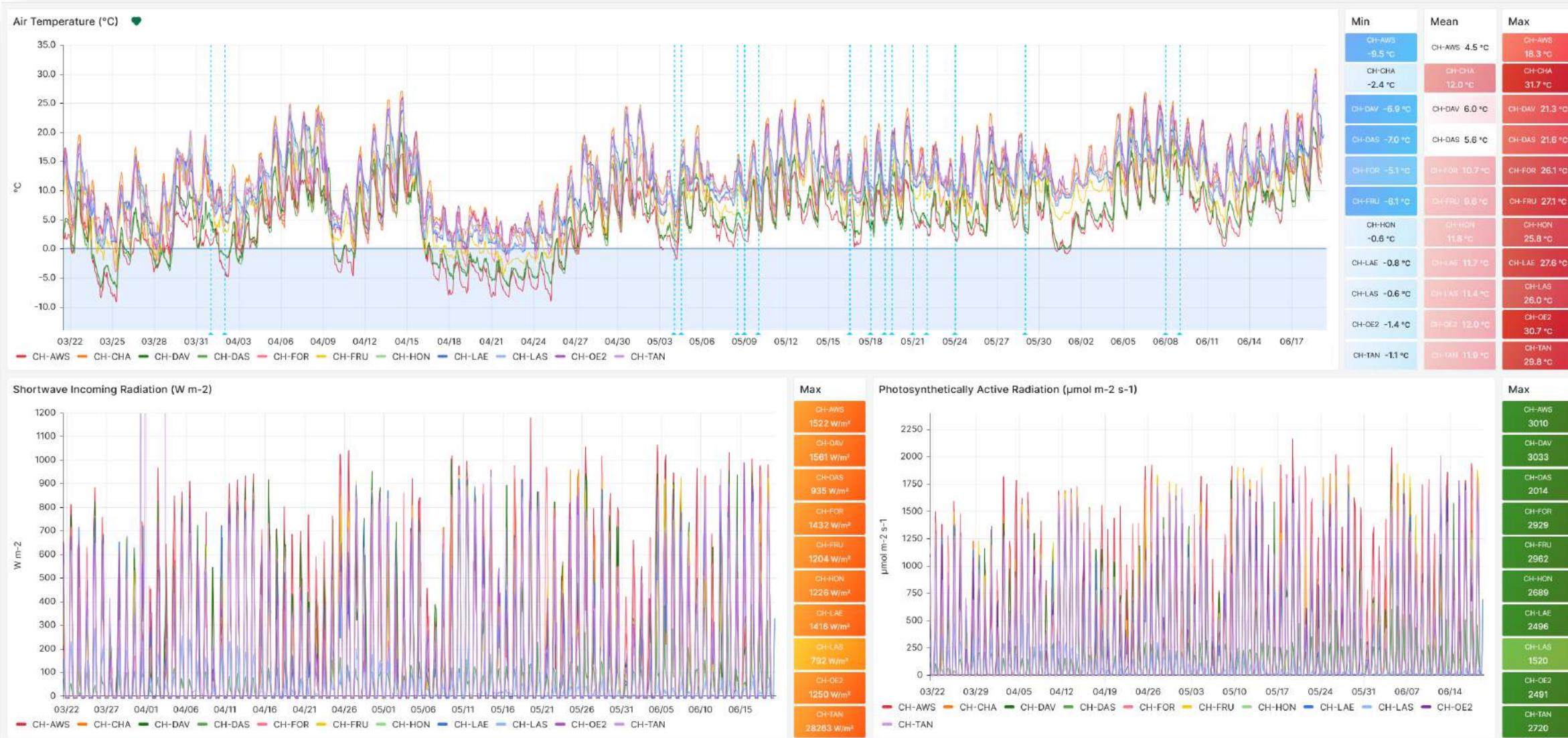
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Webcam | CH-TAN

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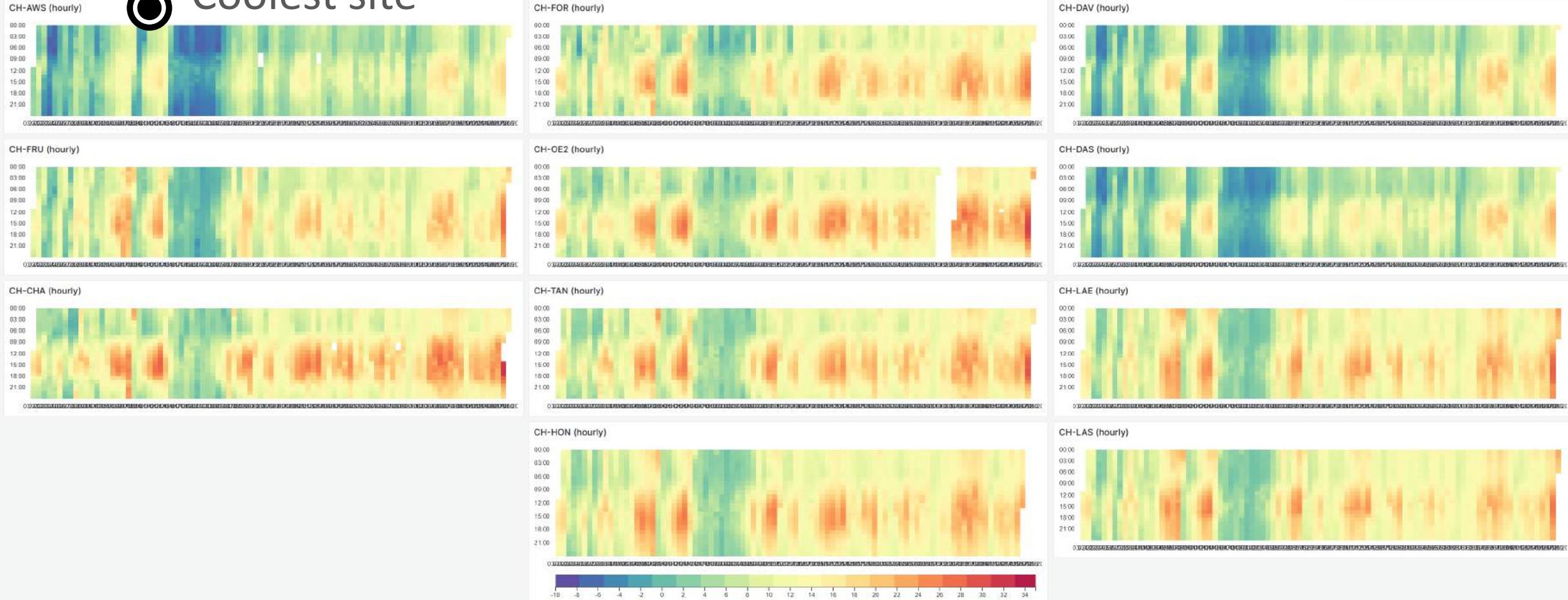




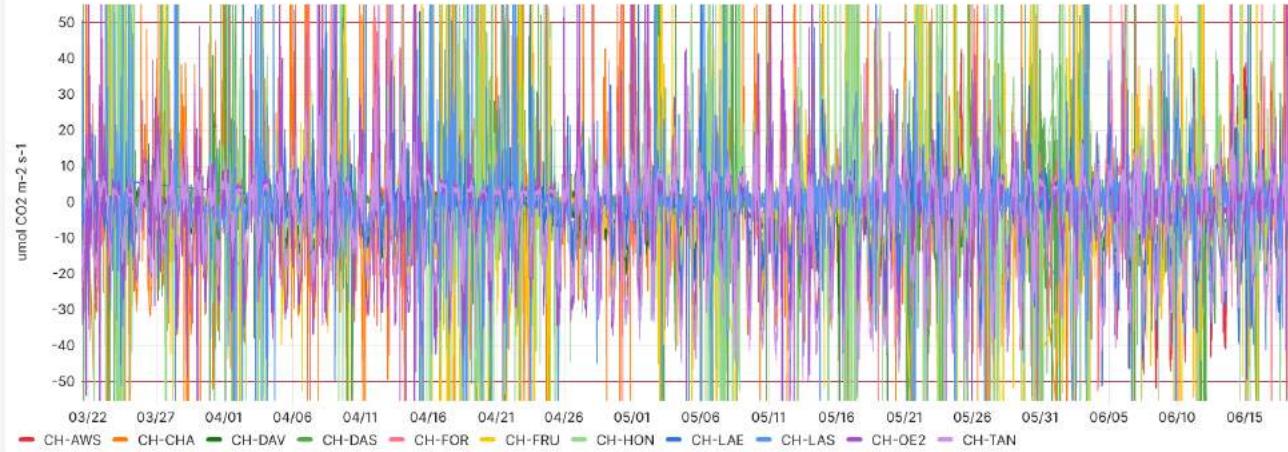
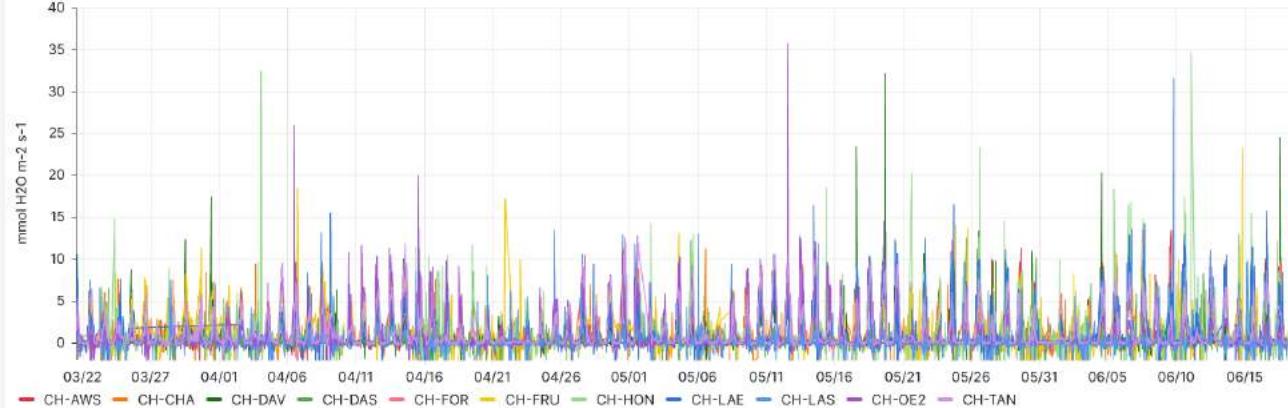
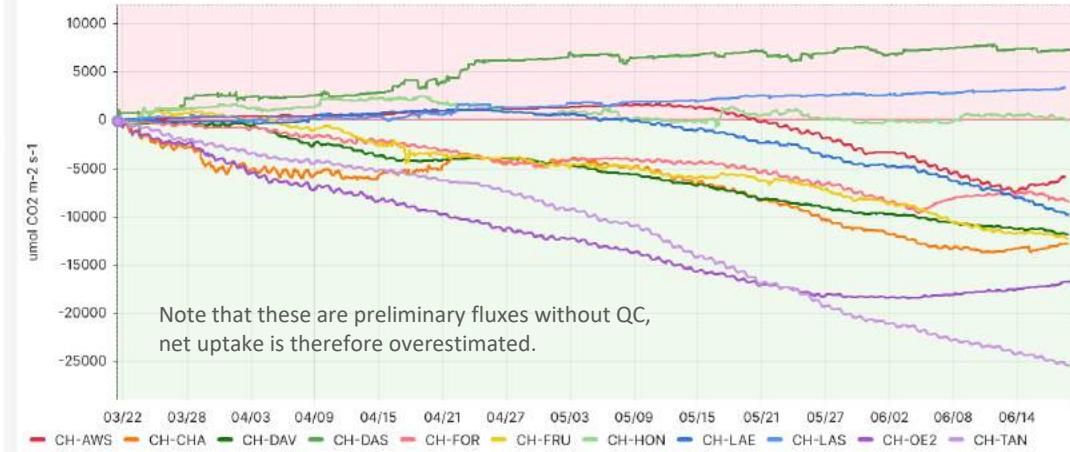
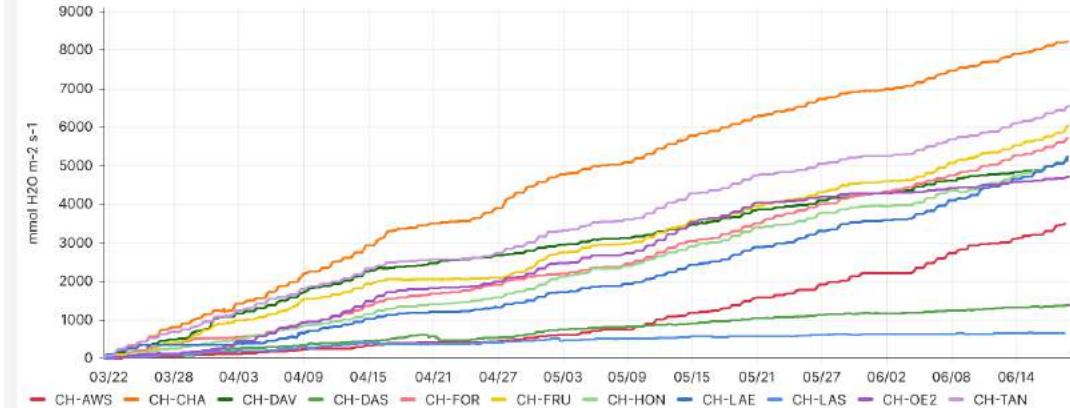
<https://dataviews.swissfluxnet.ethz.ch>



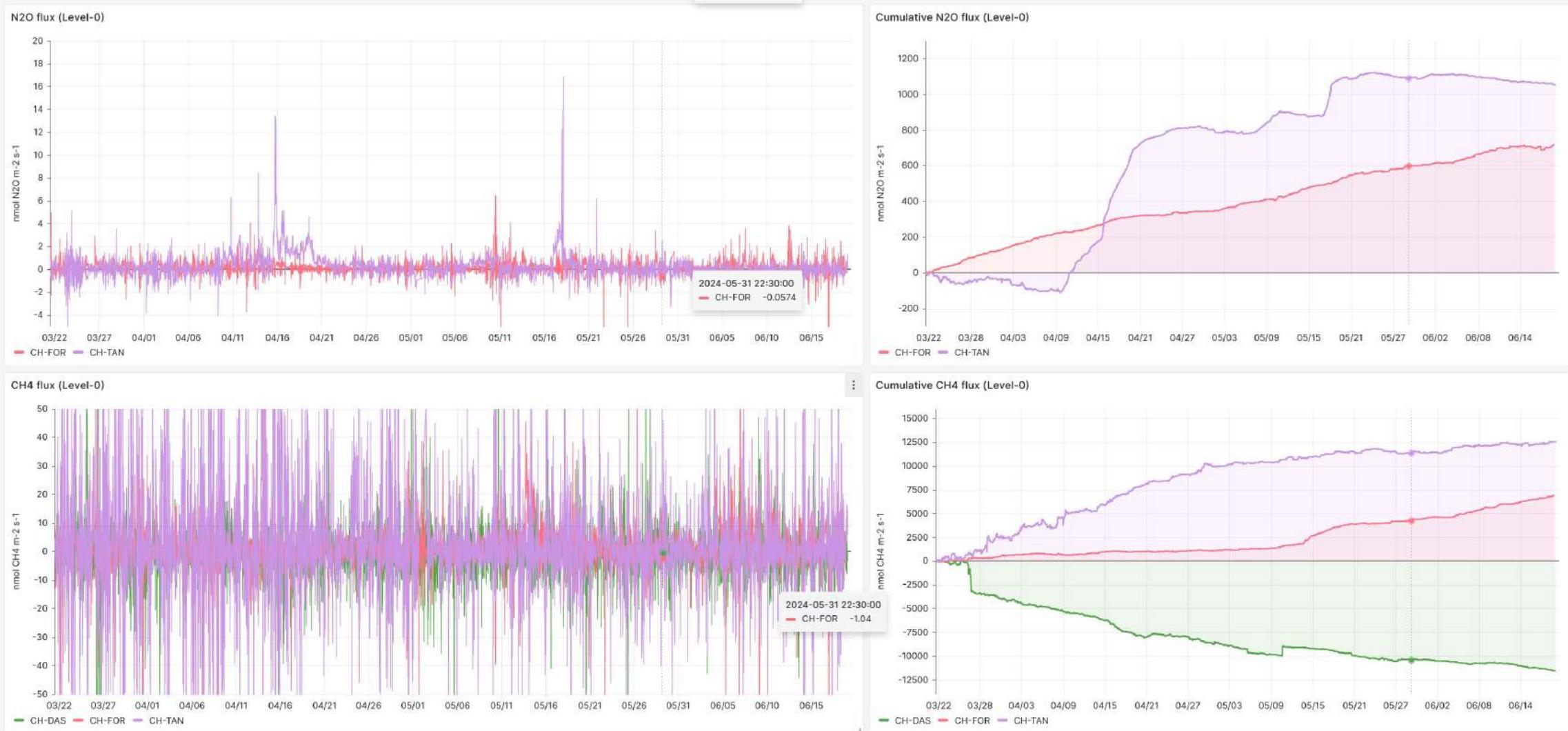
Coolest site

<https://dataviews.swissfluxnet.ethz.ch>

Last 90 days

CO₂ Fluxes (Level-0)H₂O Fluxes (Level-0)Cumulative CO₂ Fluxes (Level-0)Cumulative H₂O Fluxes (Level-0)

Last 90 days



<https://dataviews.swissfluxnet.ethz.ch>





Site not checked in detail during this meeting.

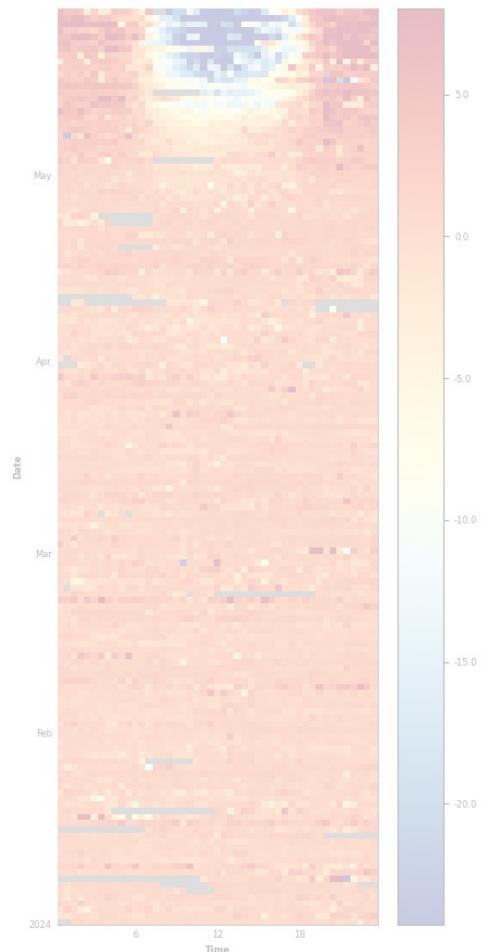
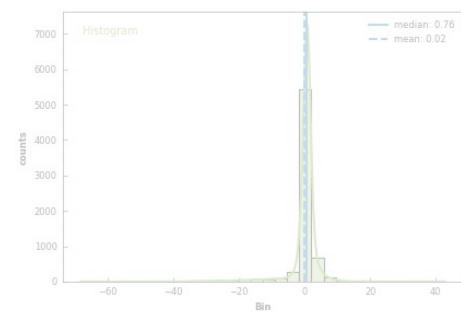
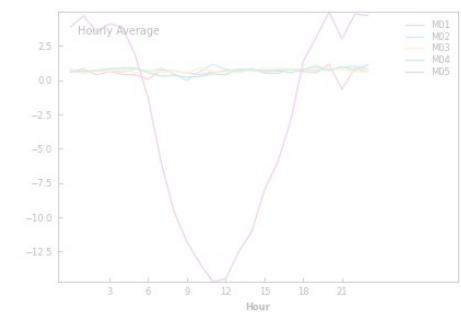
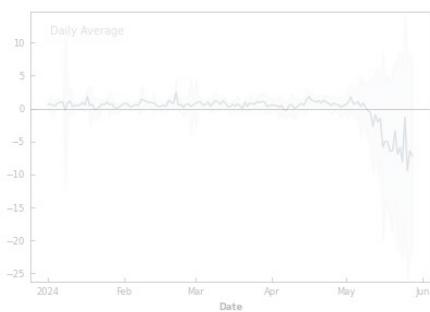
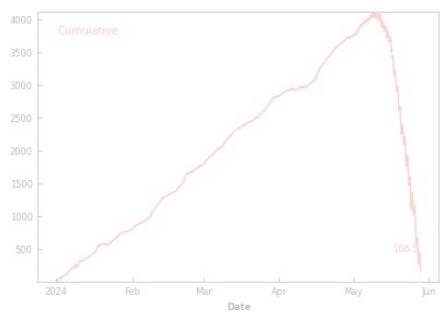
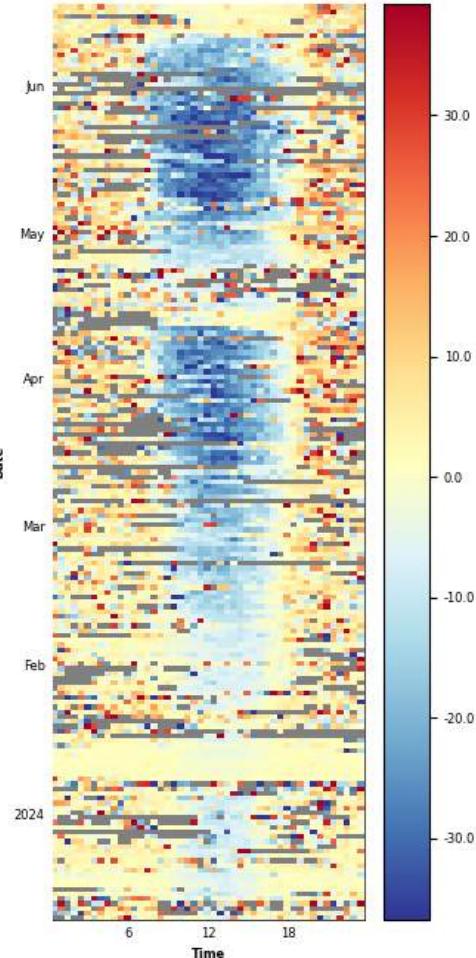
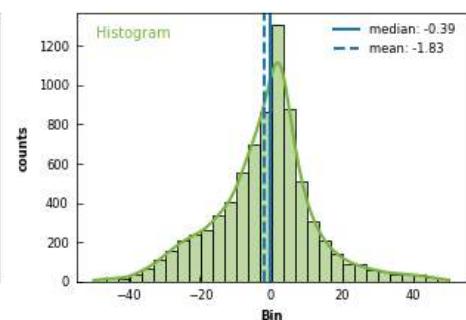
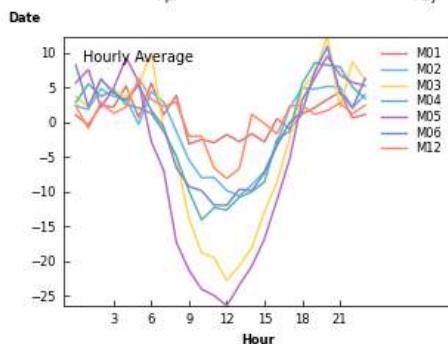
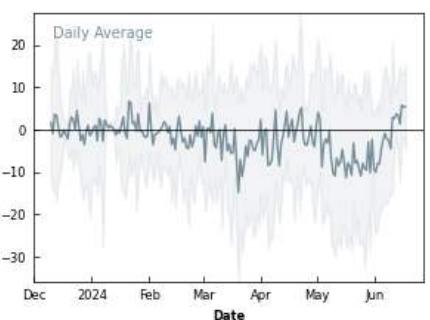
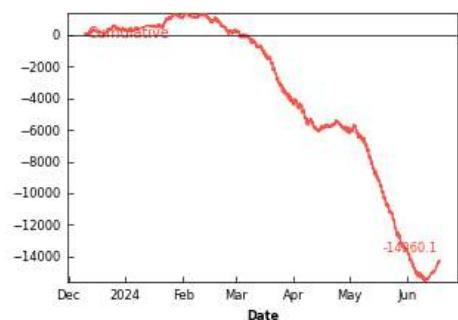
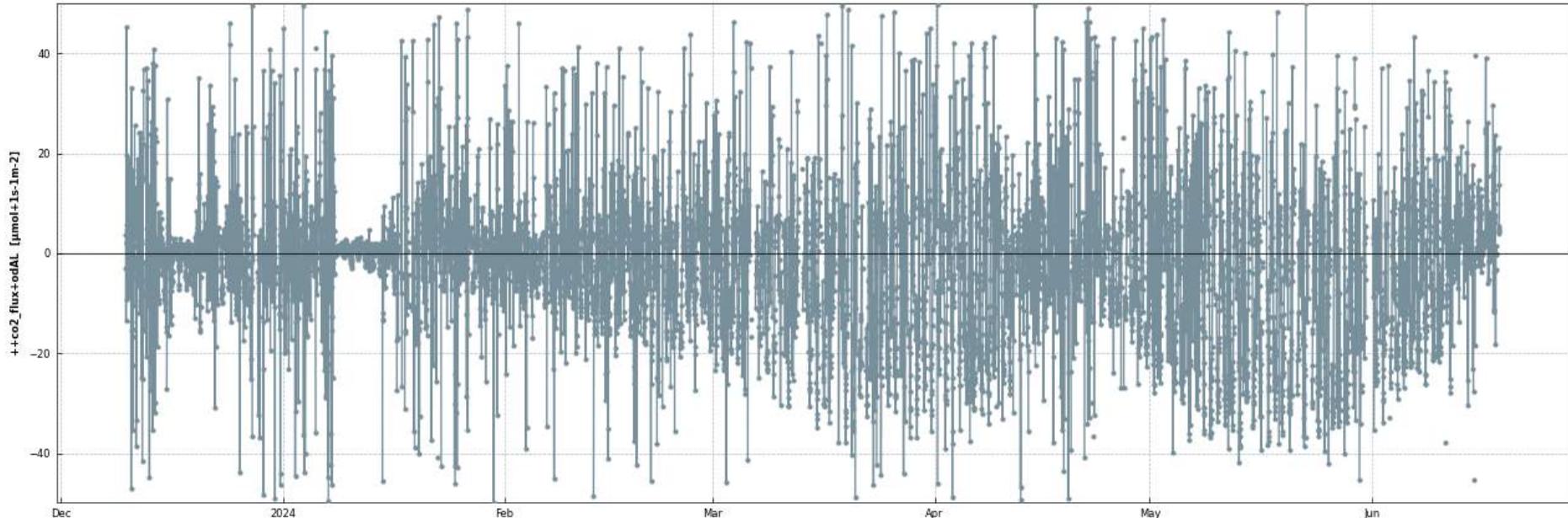


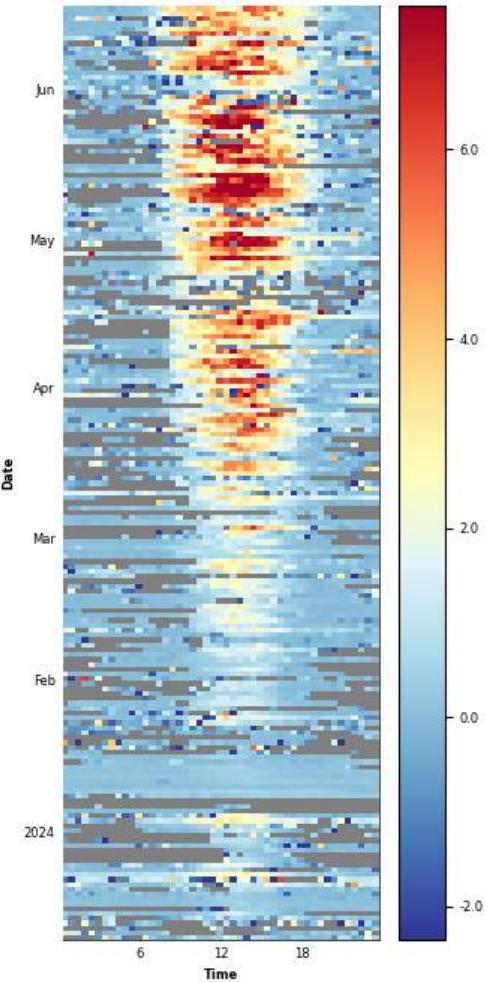
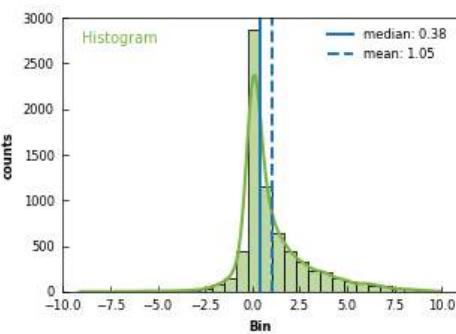
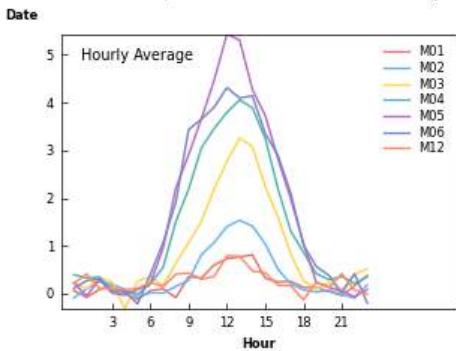
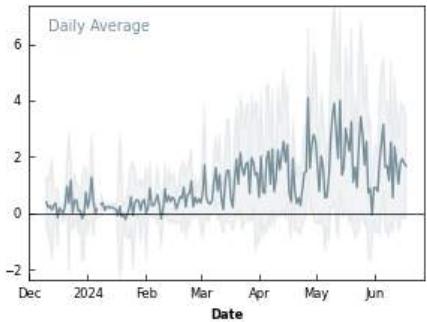
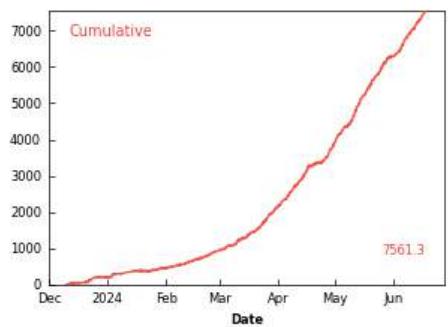
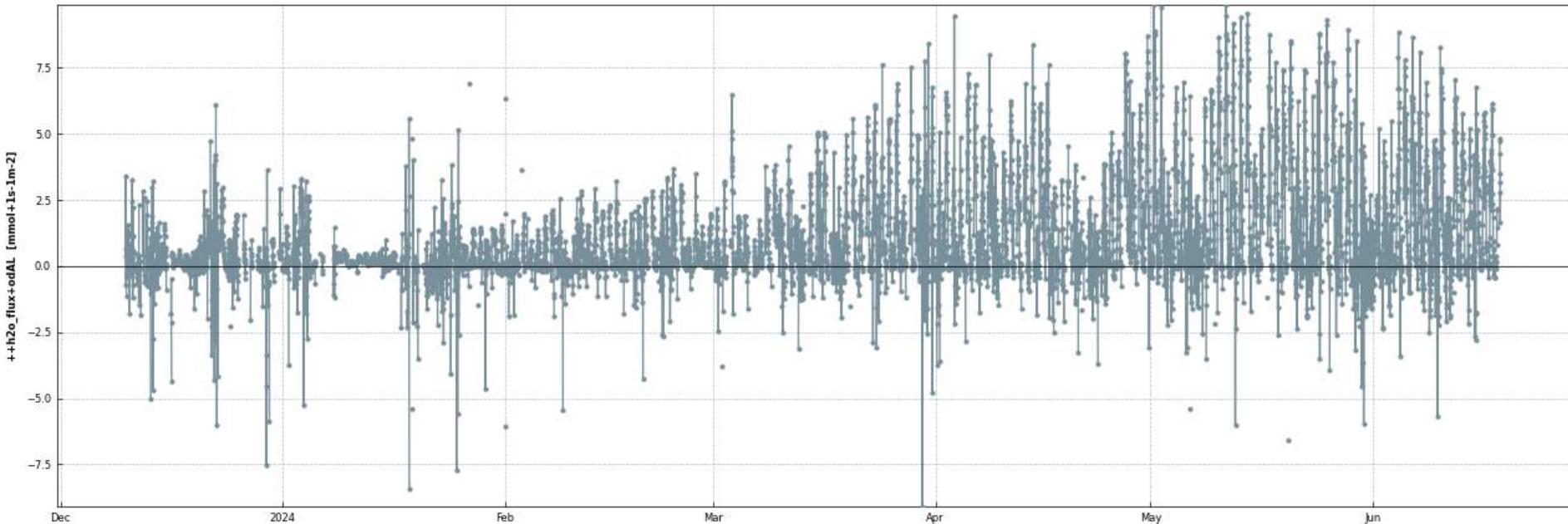


Photo: Lukas Hörtnagl



- Grazing: 2024.01.20 - 2024.01.23
- 1st mowing: 2024.04.11
- 2nd mowing: 2024.06.11 (wet areas – 2024.06.19)





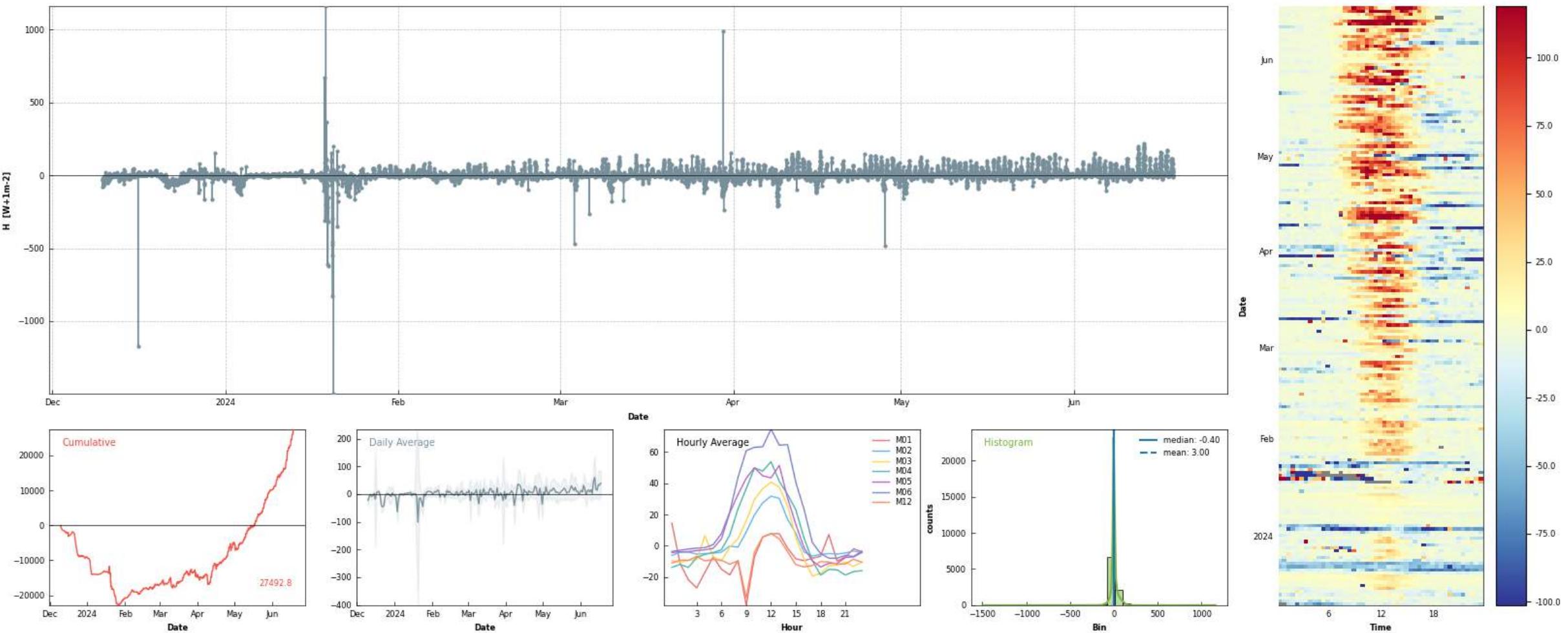
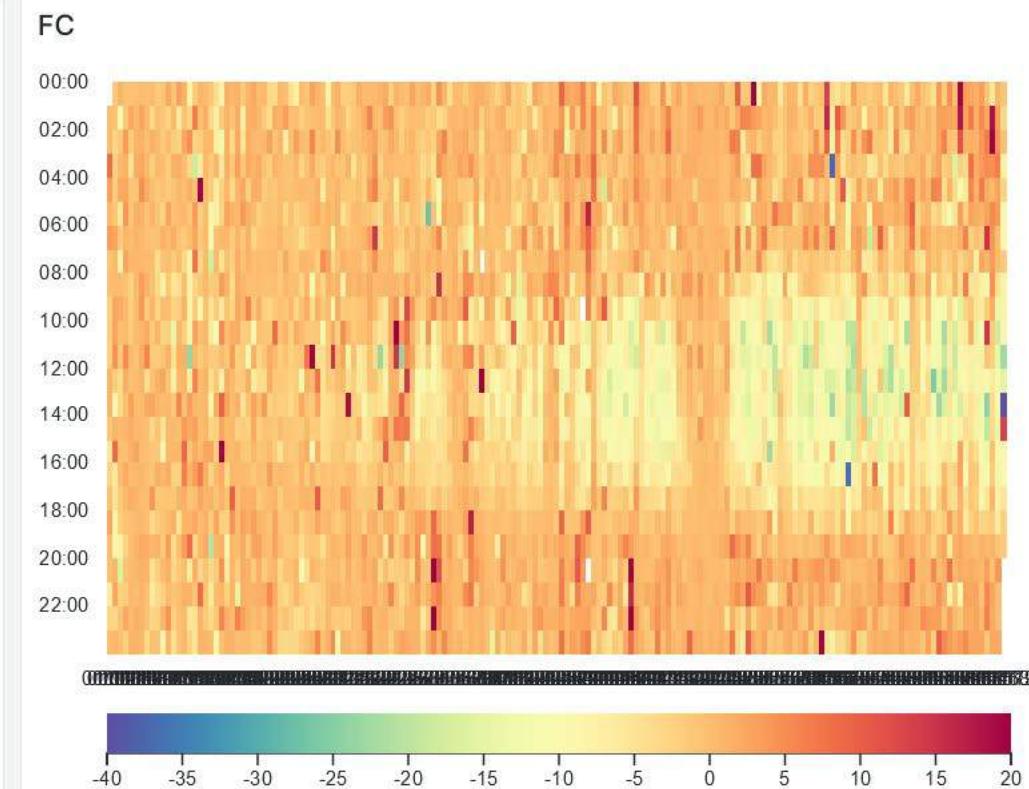
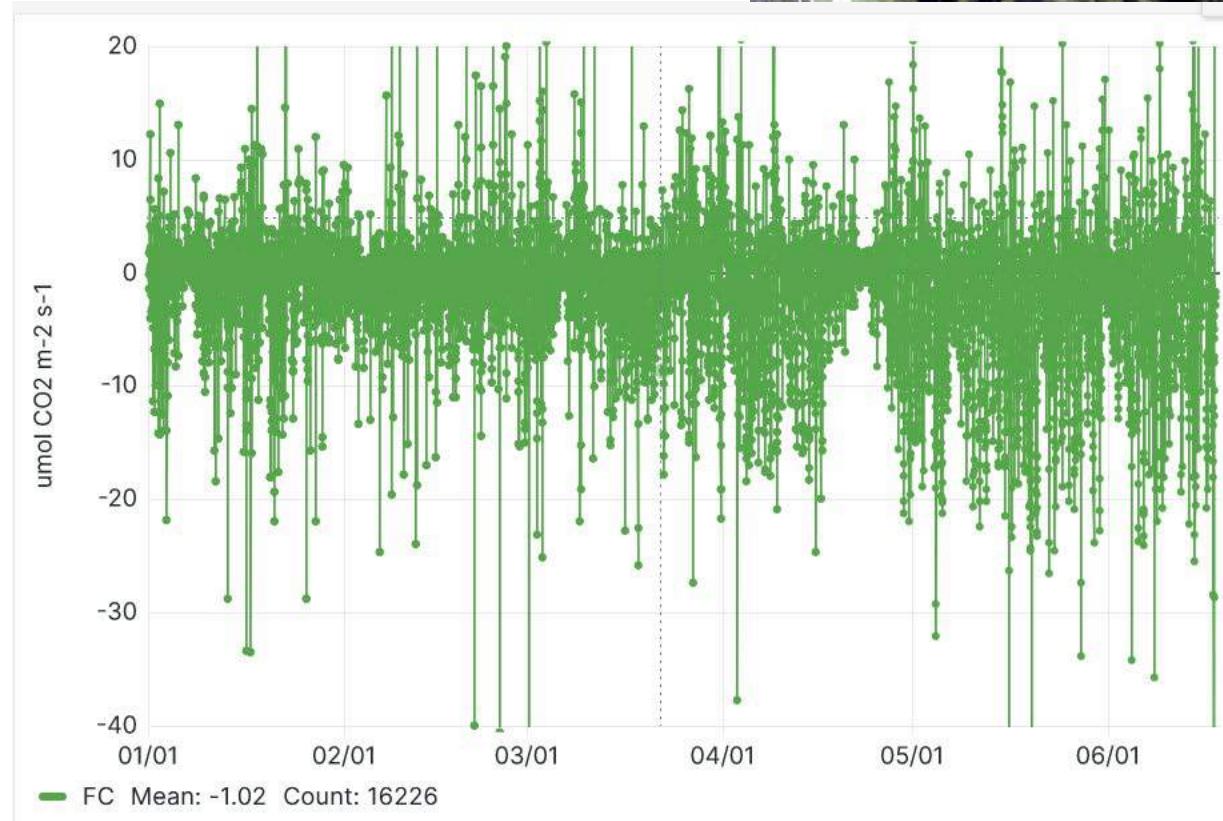
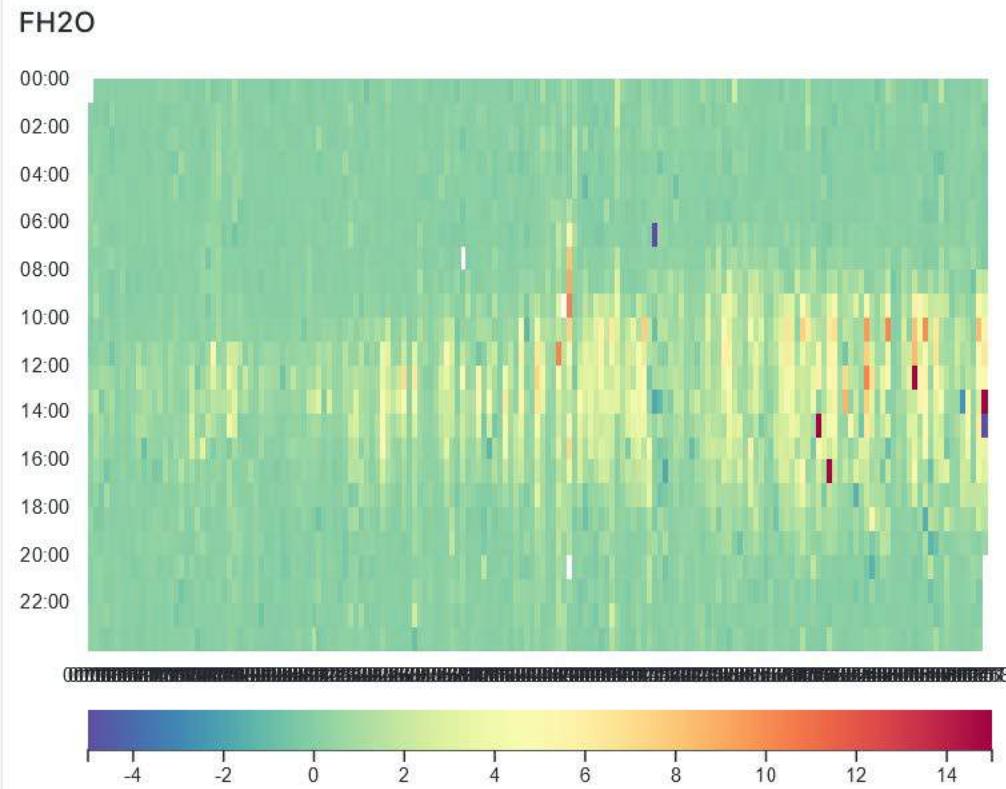
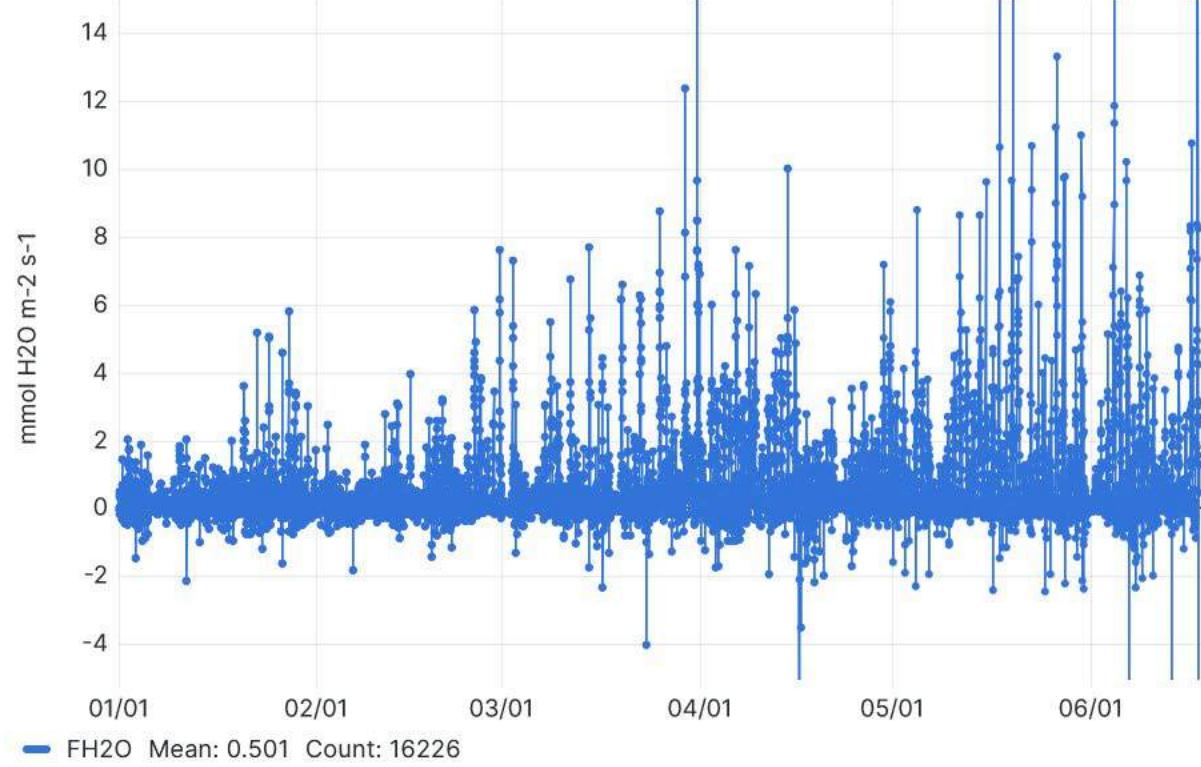
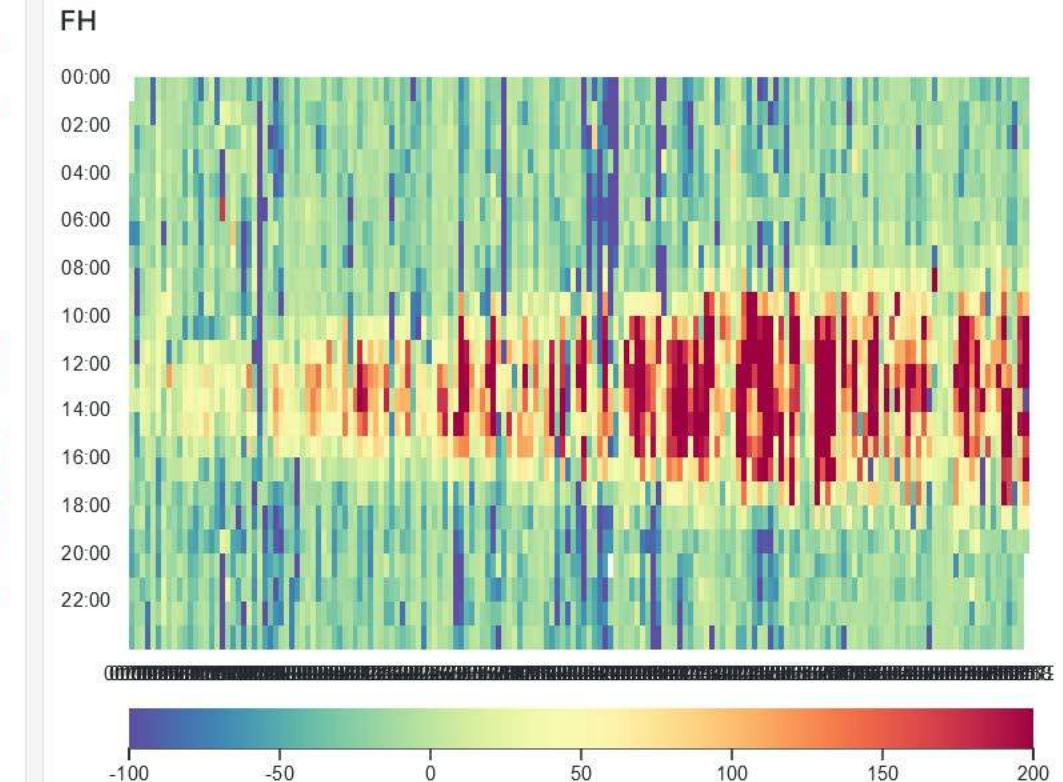
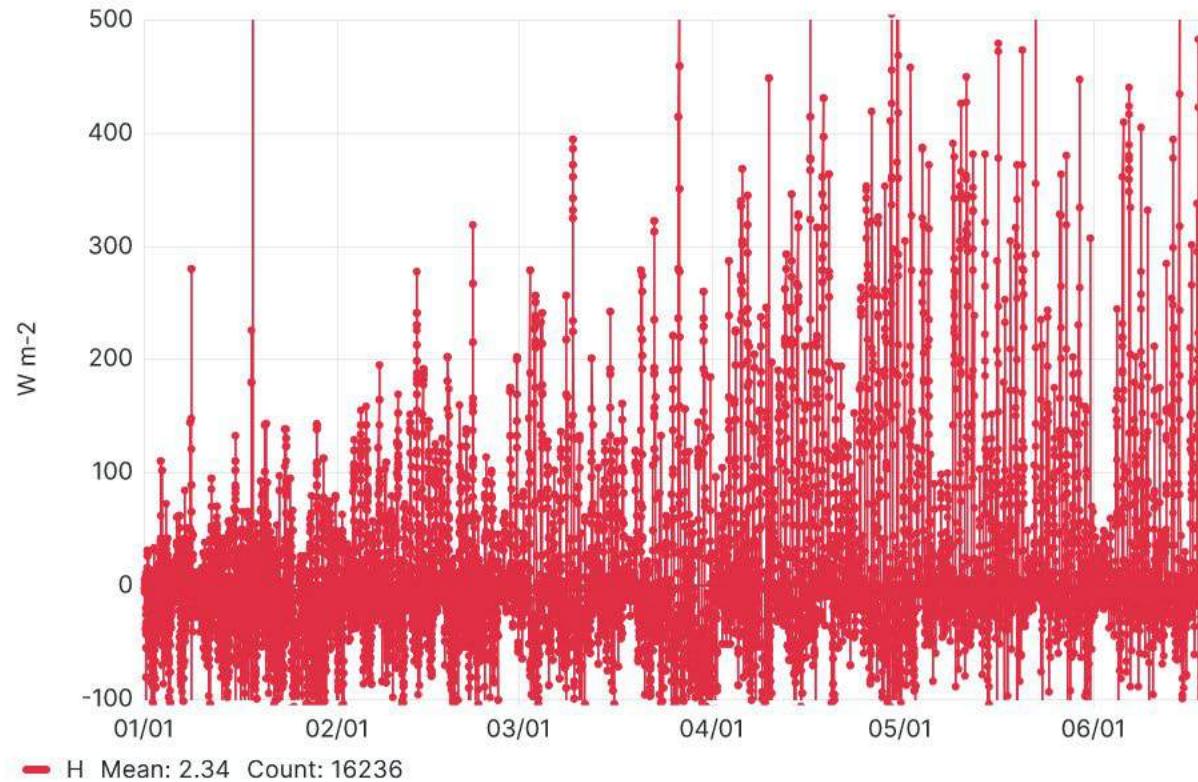




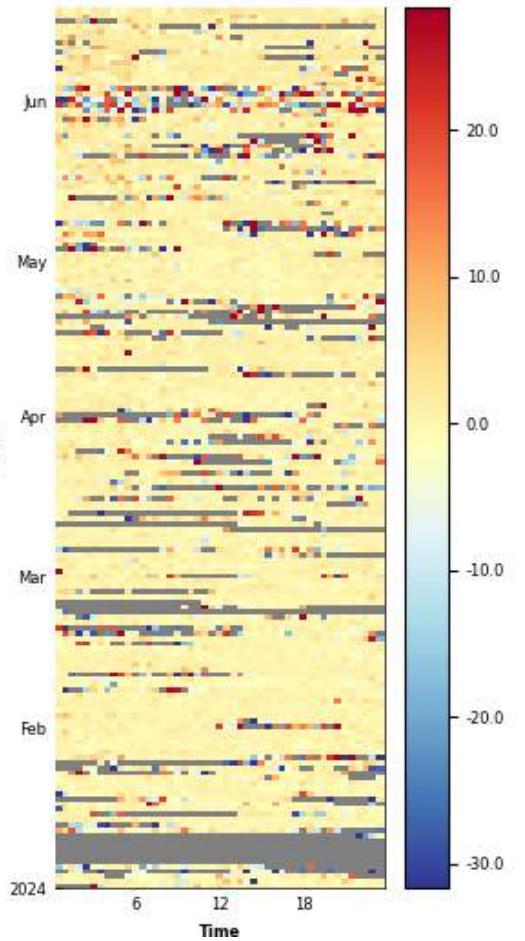
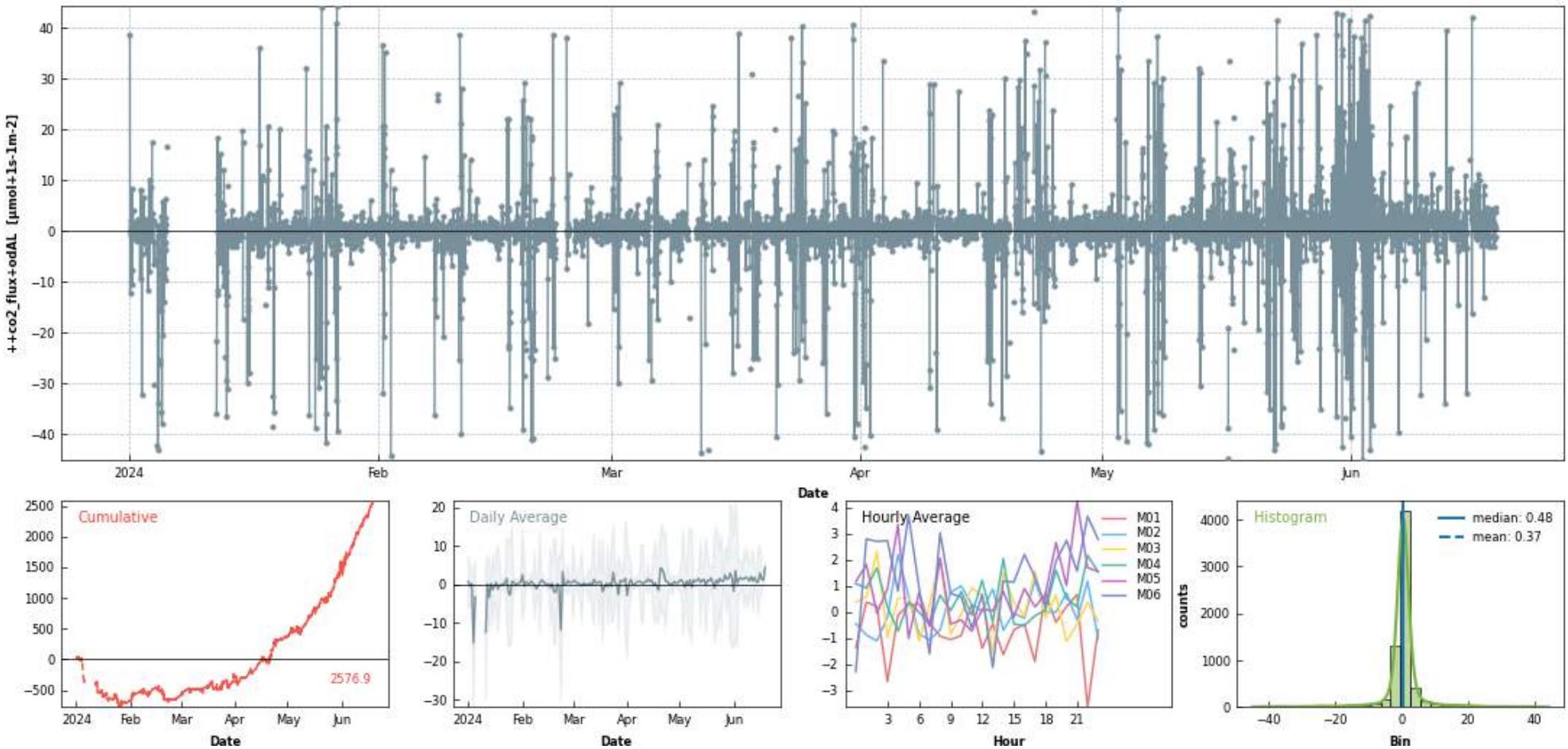
Photo: Lukas Hörtnagl

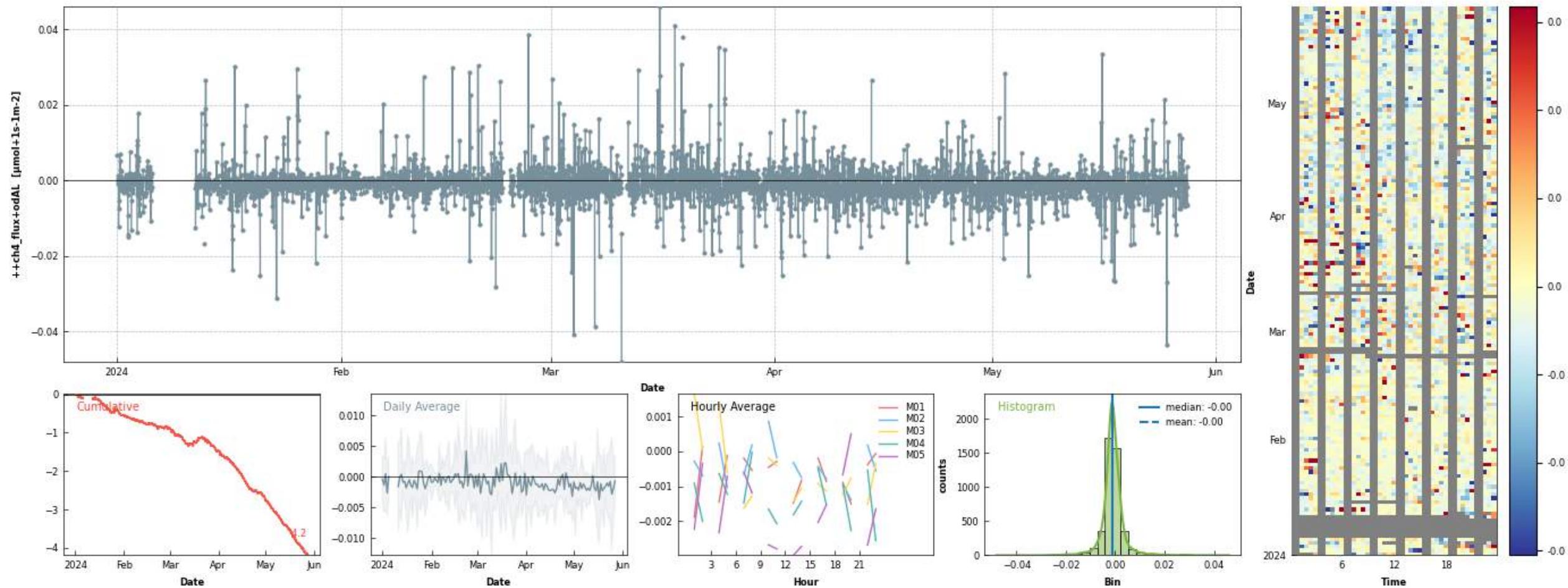


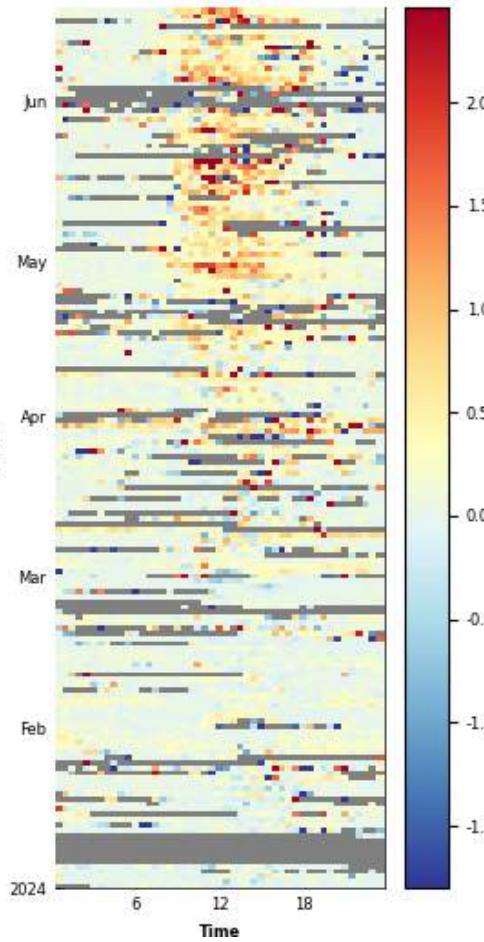
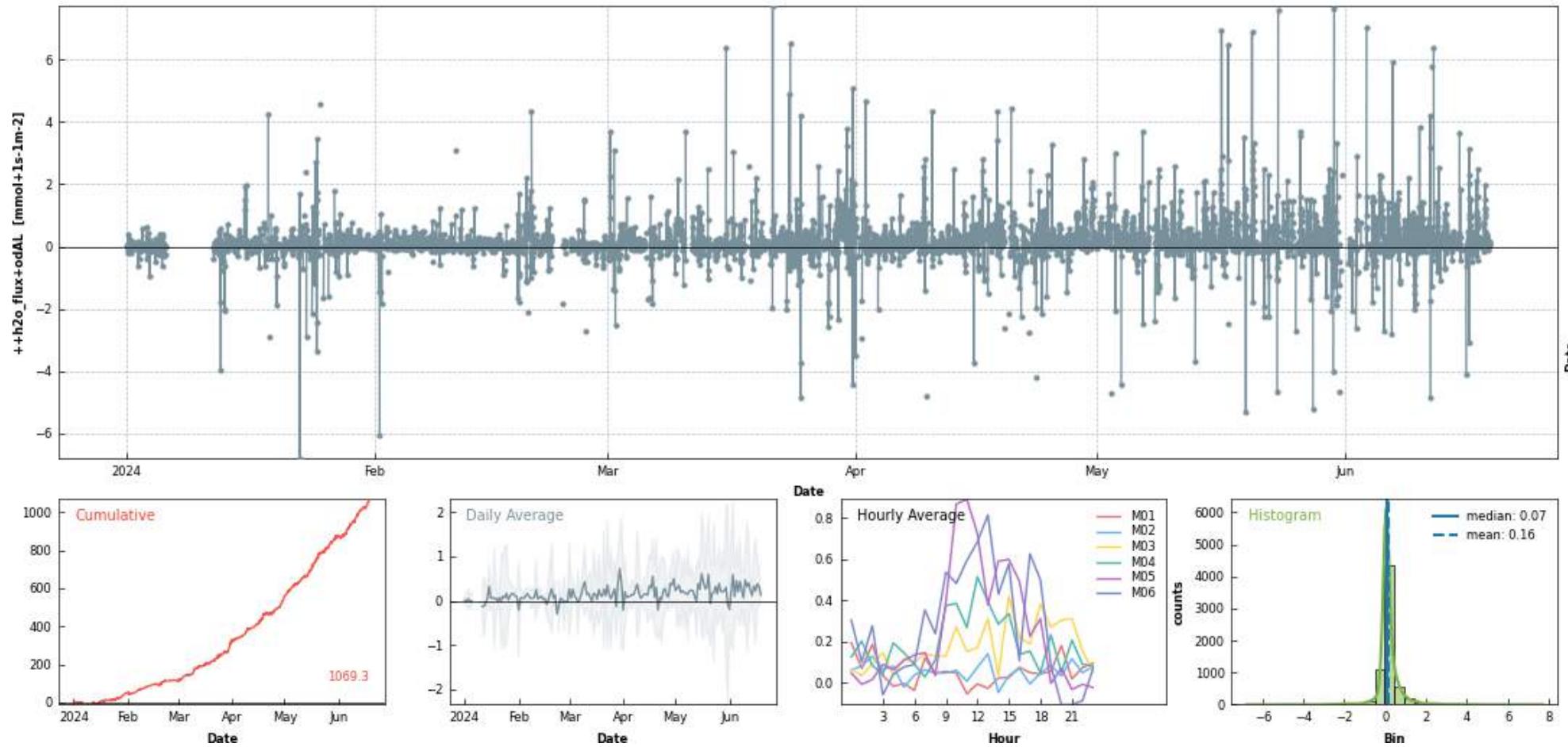


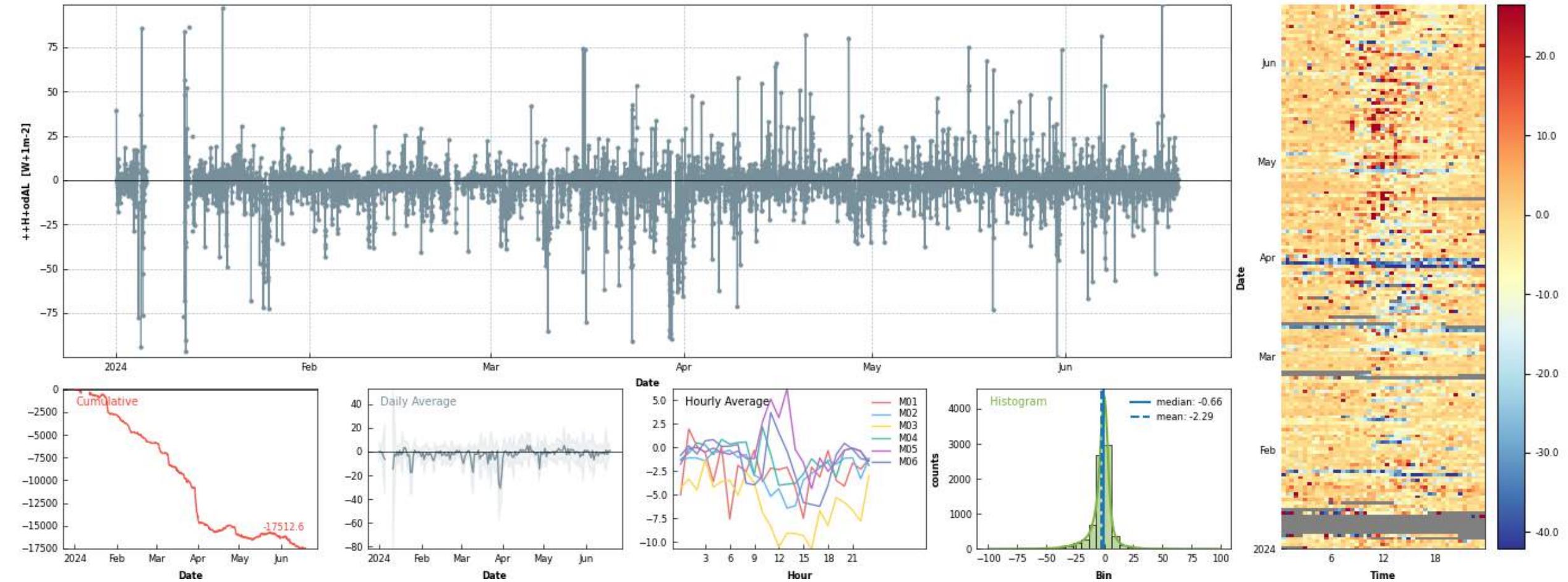












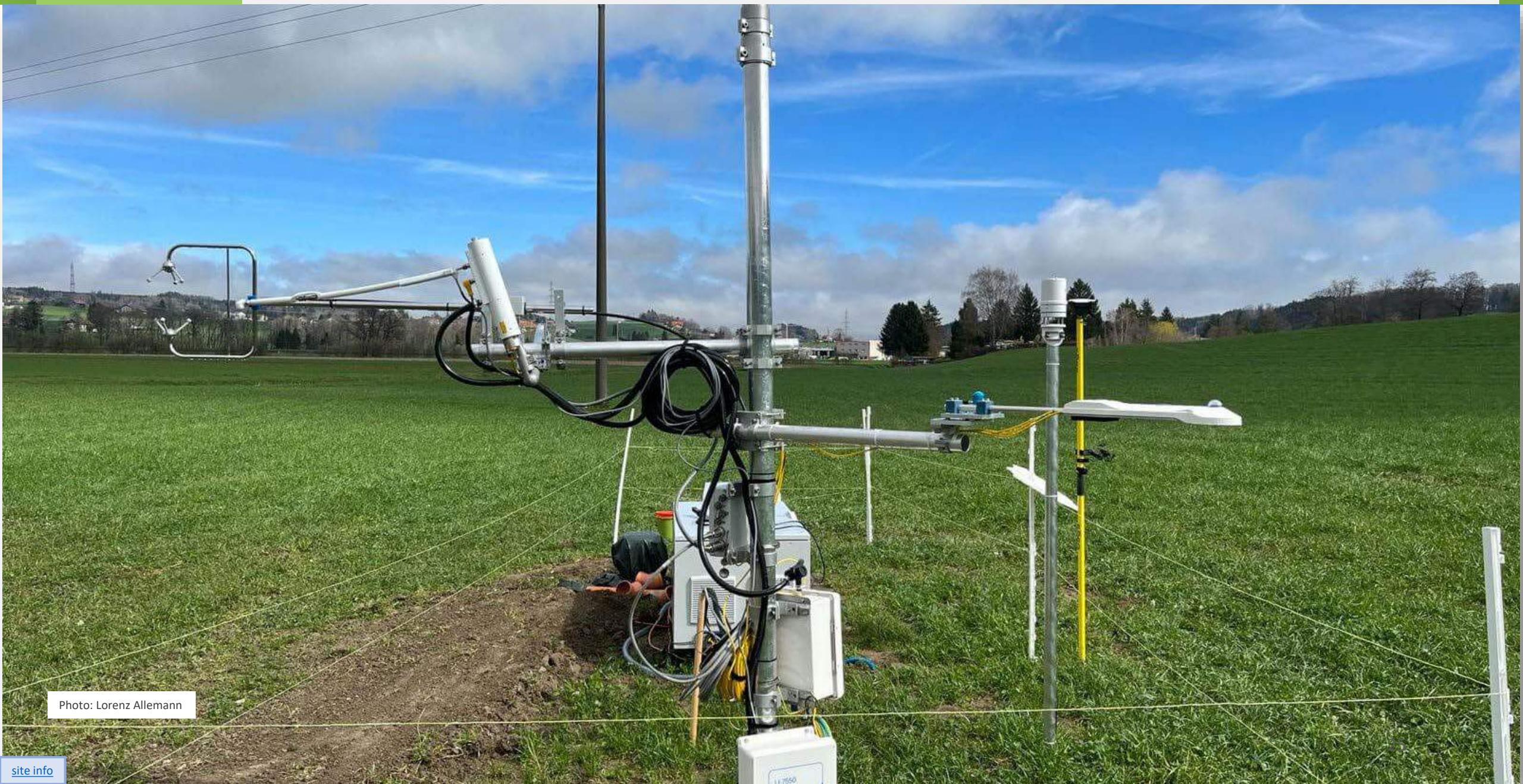


Photo: Lorenz Allemann

- 1st mowing: 29.04
- Fertilization: 8.3 and 13.5

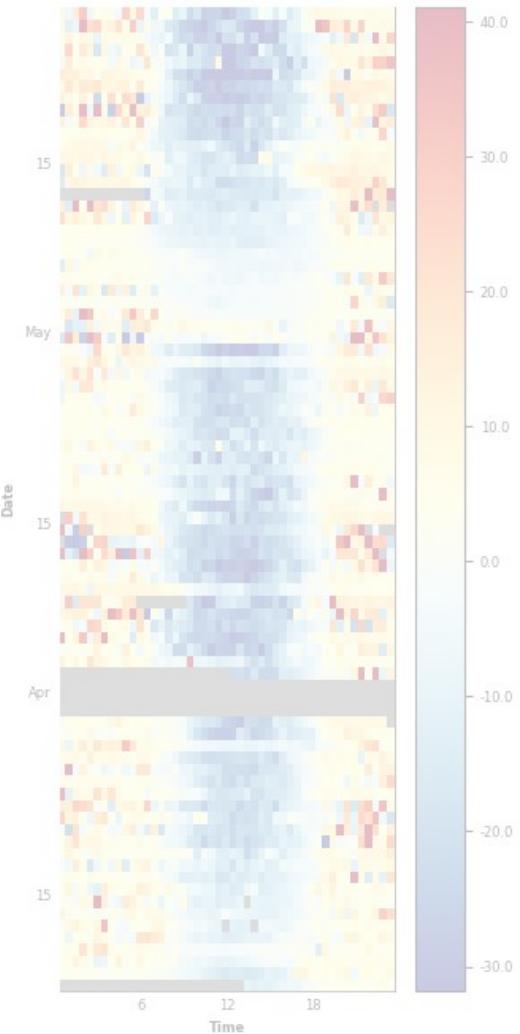
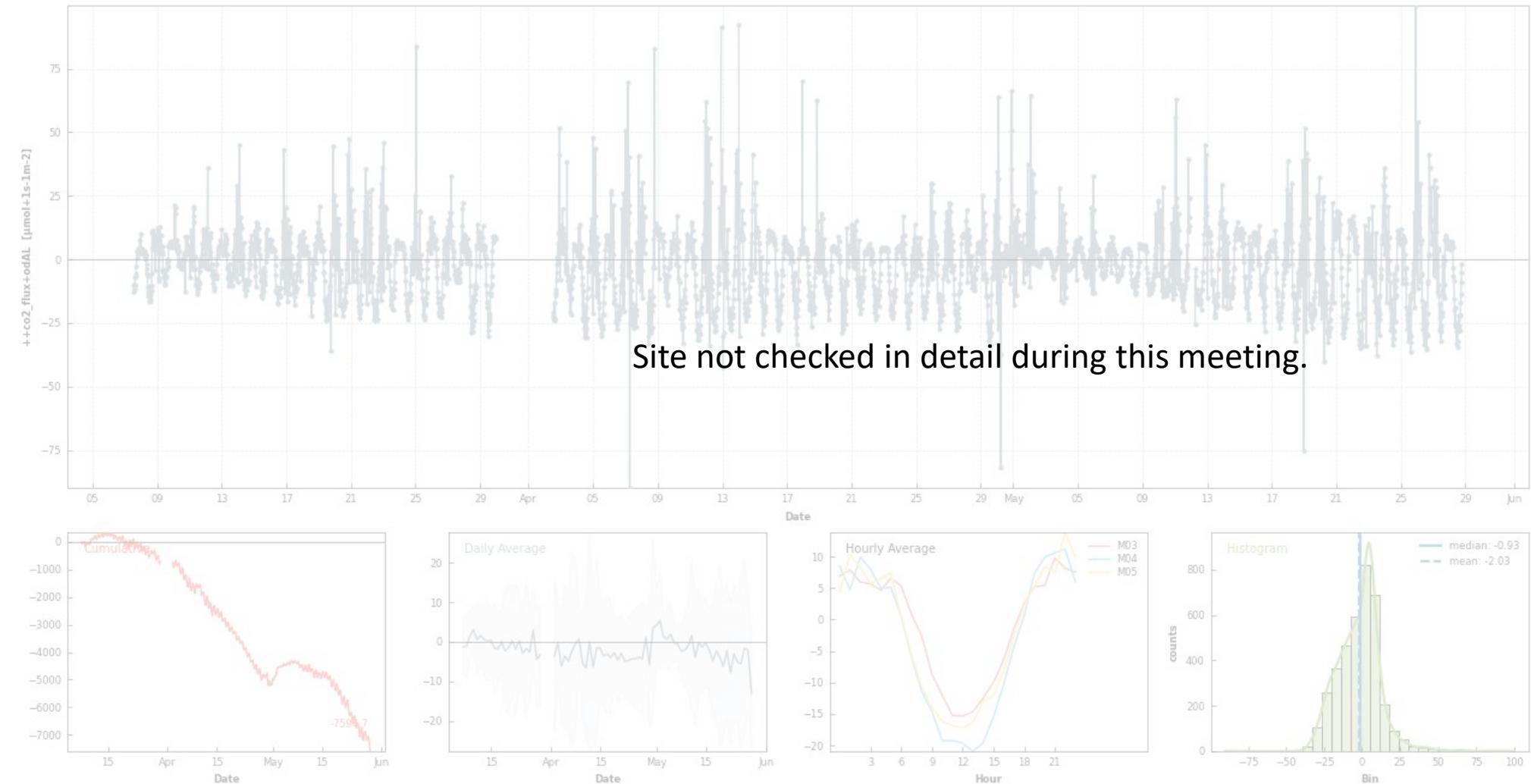
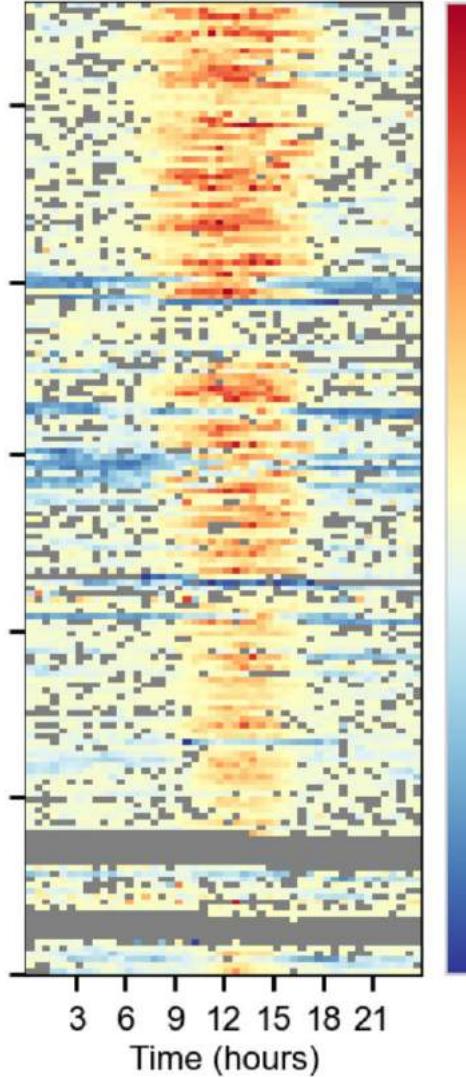




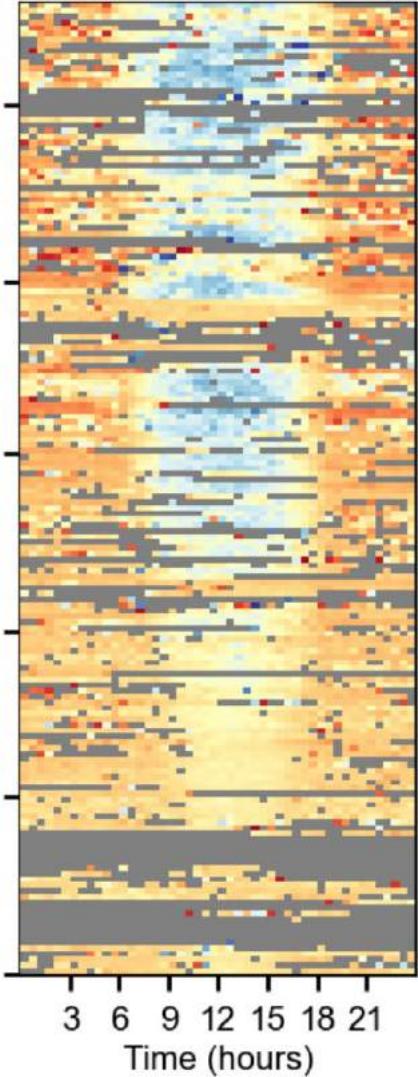
Photo: Lukas Hörtnagl

H

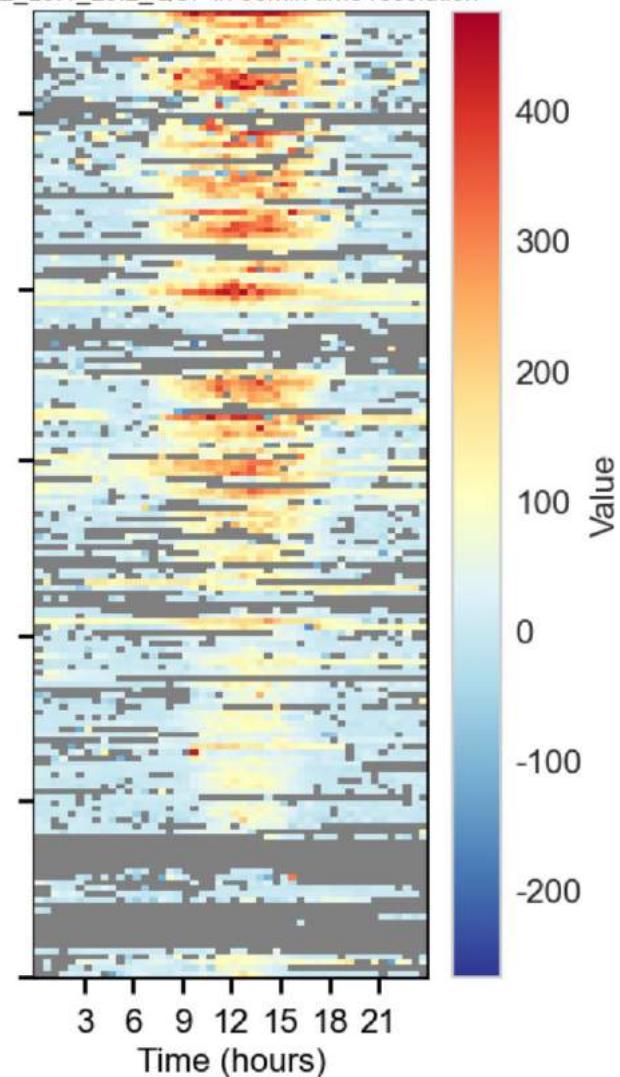
H_L3.1_L3.2_QCF in 30min time resolution

**CO₂ flux**

NEE_L3.1_L3.2_QCF in 30min time resolution

**LE**

LE_L3.1_L3.2_QCF in 30min time resolution



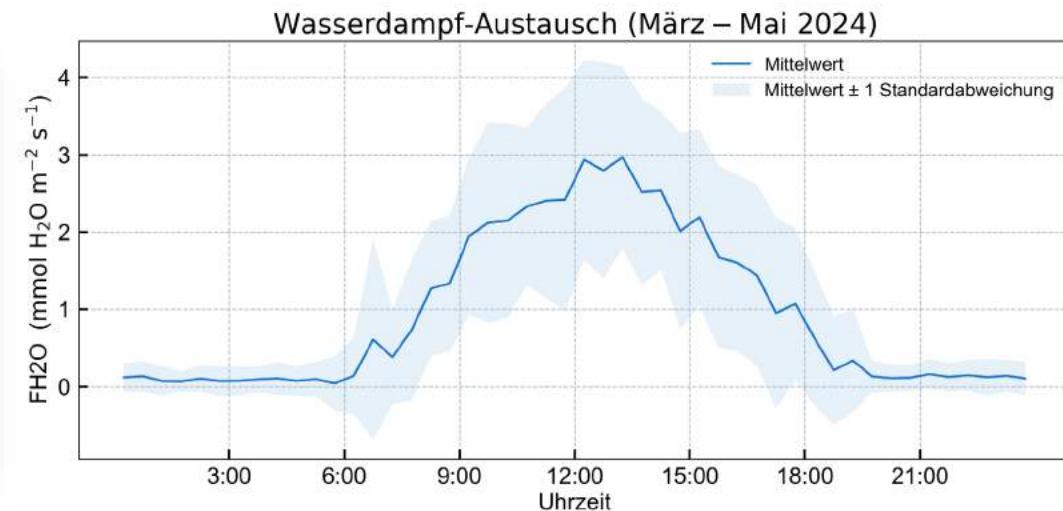
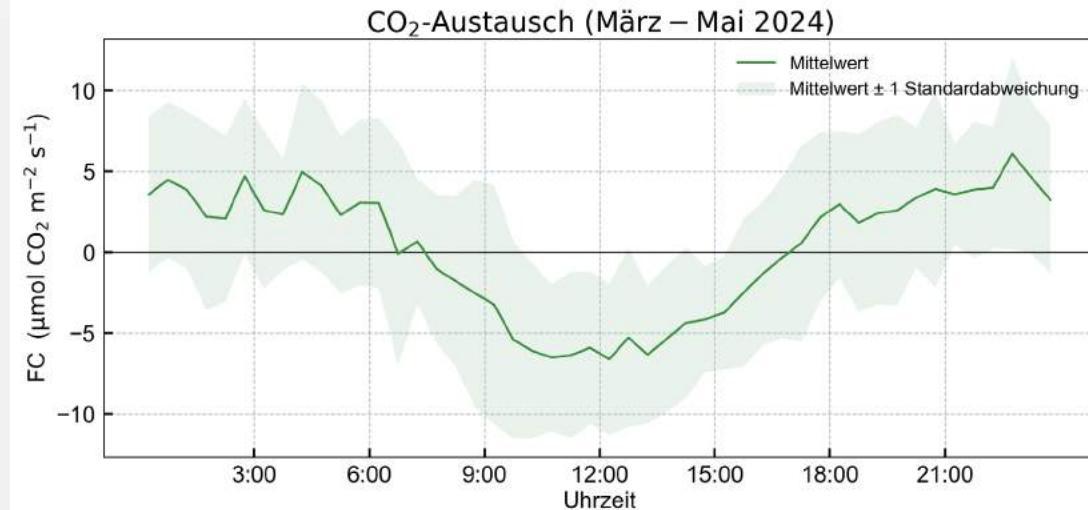
- With preliminary QCF using the diive notebook notebooks/FluxProcessingChain/QuickFluxProcessingChain.ipynb



Photo: Lukas Hörtnagl

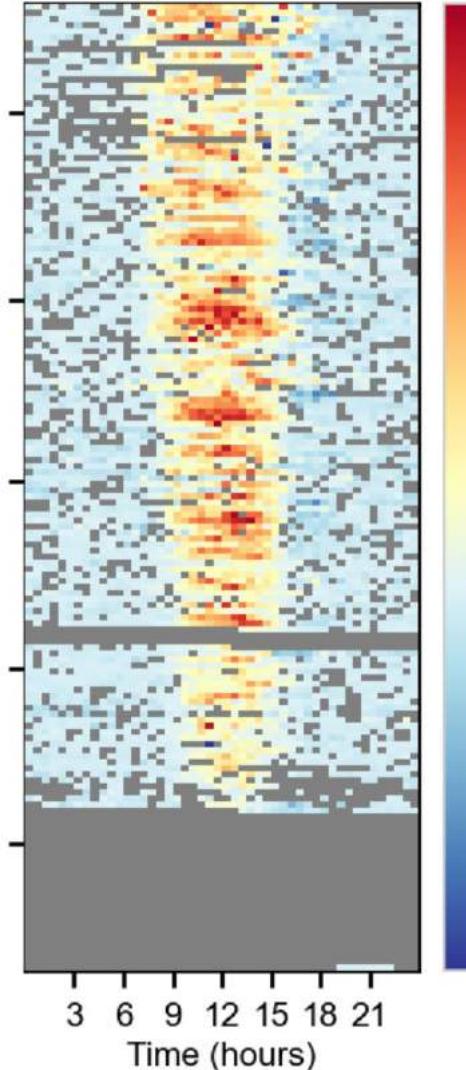
CH-HON CO₂ and H₂O flux

- First fluxes for CH-HON
- Test plantations with coniferous and deciduous tree species from different places of origin, research is being carried out into what the forest of tomorrow could look like. This area in the Zurich forest laboratory is one of 59 test areas throughout Switzerland. The site is part of the [Waldlabor Zürich](#).

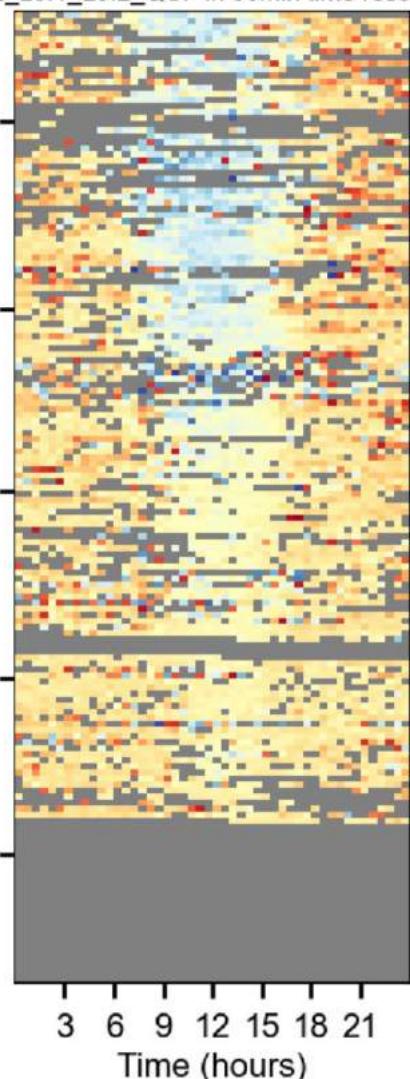


H

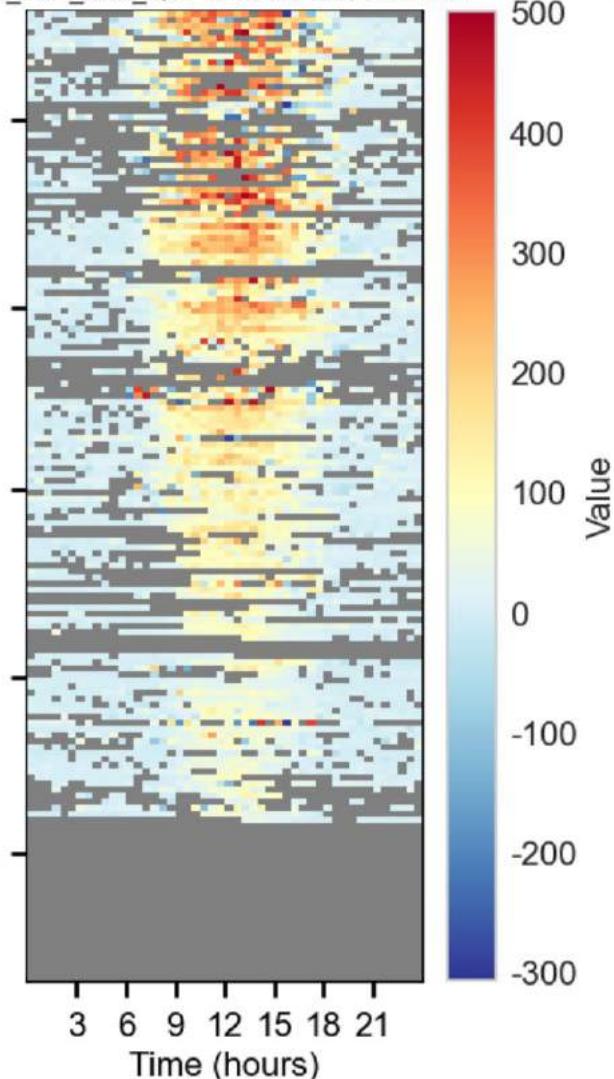
H_L3.1_L3.2_QCF in 30min time resolution

**CO₂ flux**

NEE_L3.1_L3.2_QCF in 30min time resolution

**LE**

LE_L3.1_L3.2_QCF in 30min time resolution

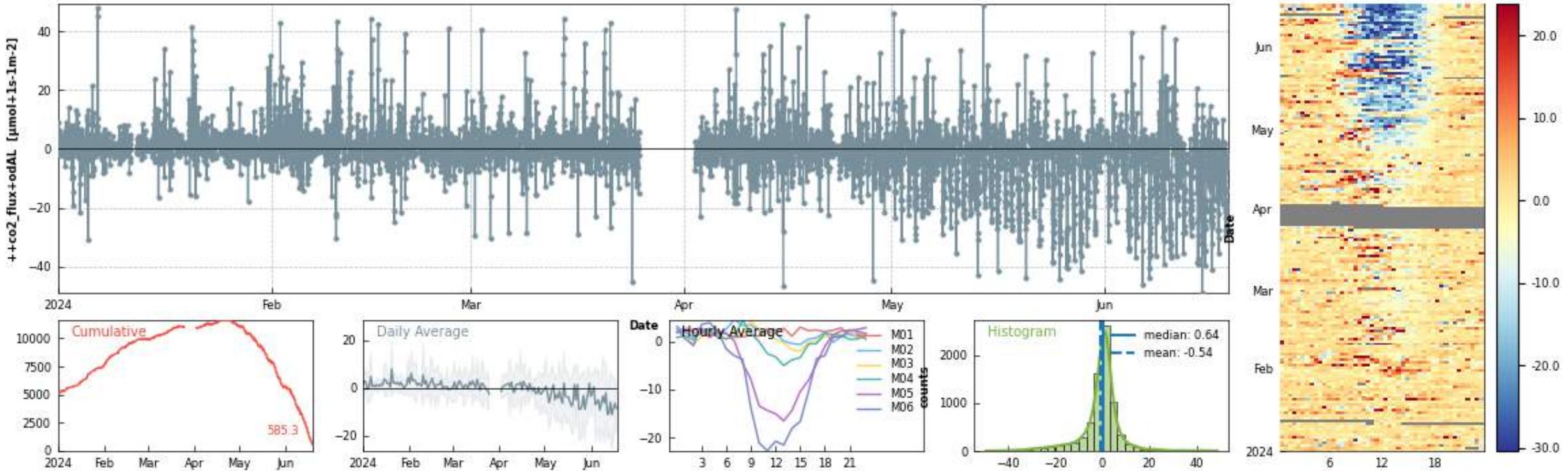


- With preliminary QCF using the diive notebook notebooks/FluxProcessingChain/QuickFluxProcessingChain.ipynb

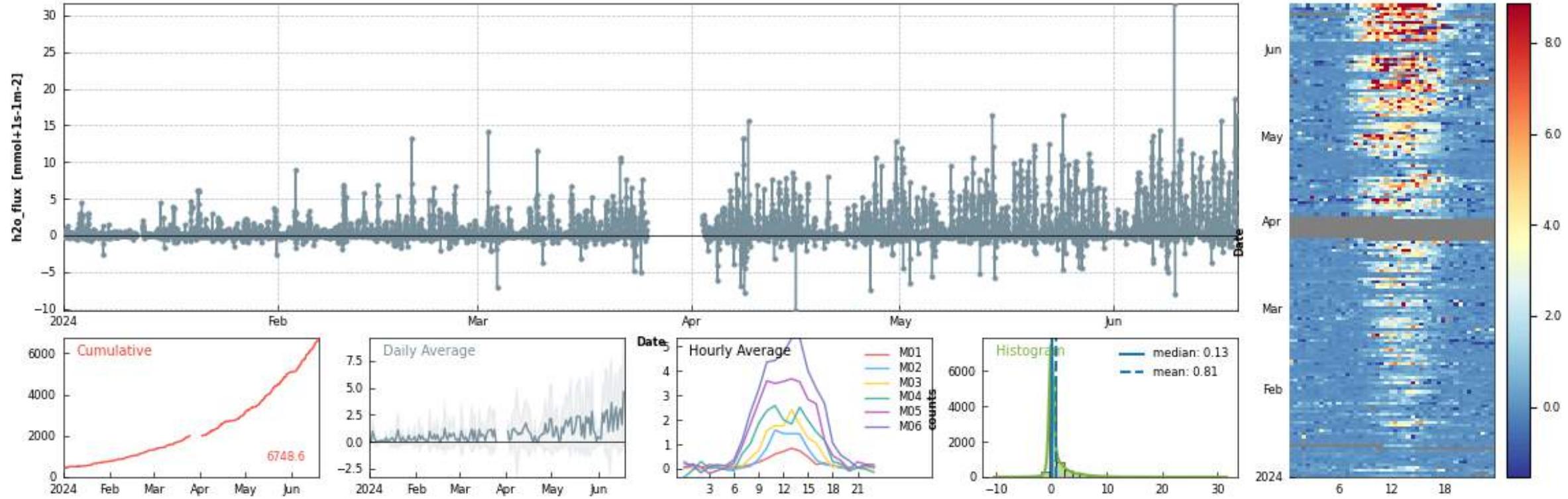


Photo: Markus Staudinger

Outlier removed CO2 flux. Lägeren is doing awesome stuff (high CO2 uptake).



Outlier removed H2O flux.



Outlier removed H flux. Transition from high H flux to low H flux with increase in H₂O flux (in previous slides from May onwards)

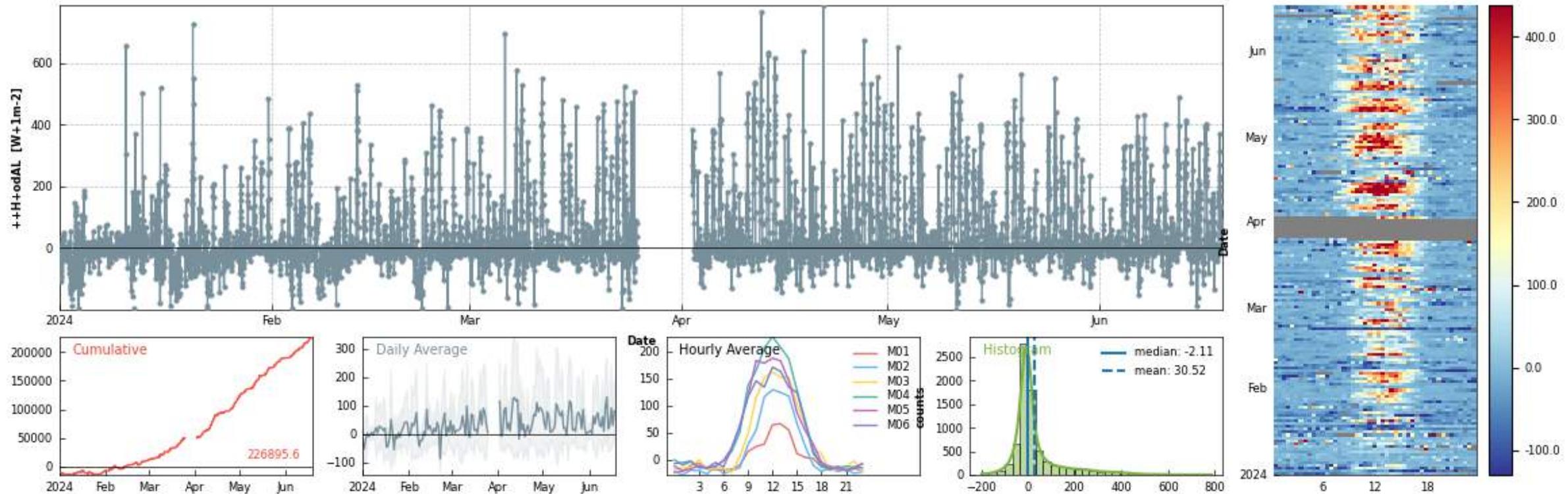
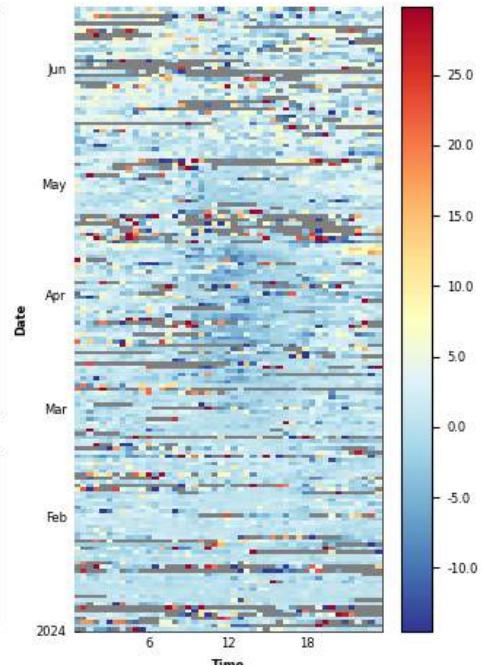
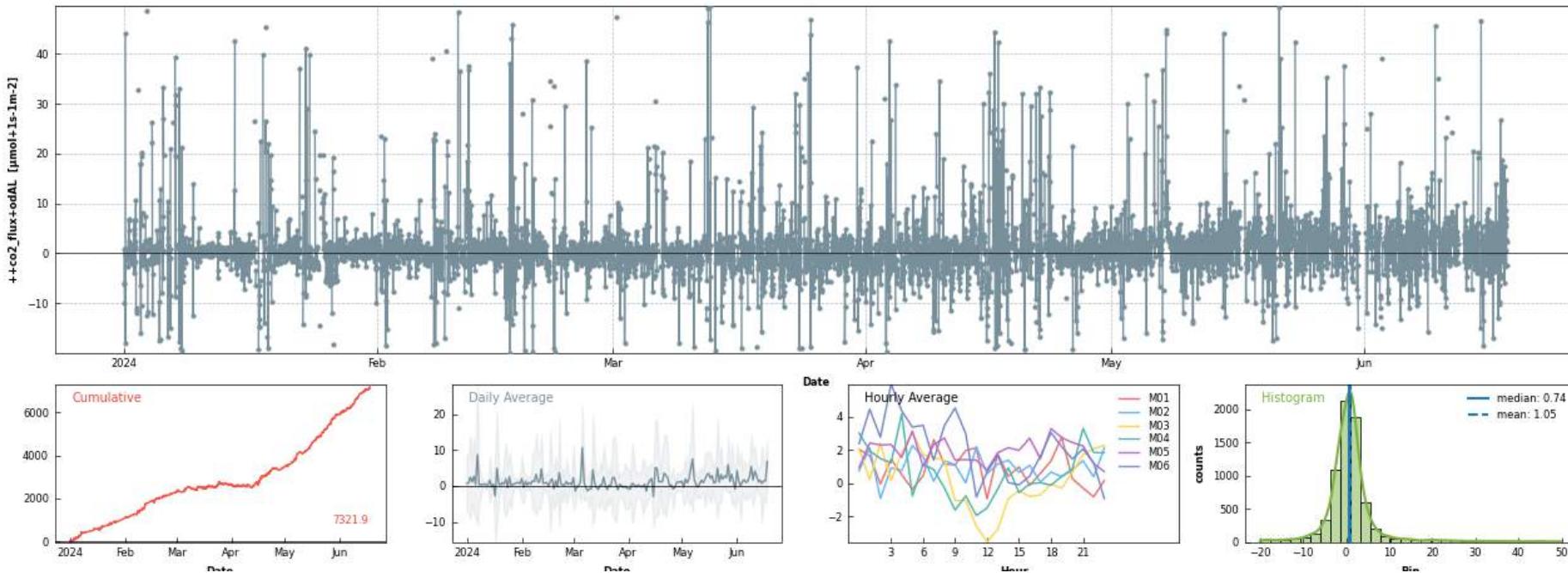
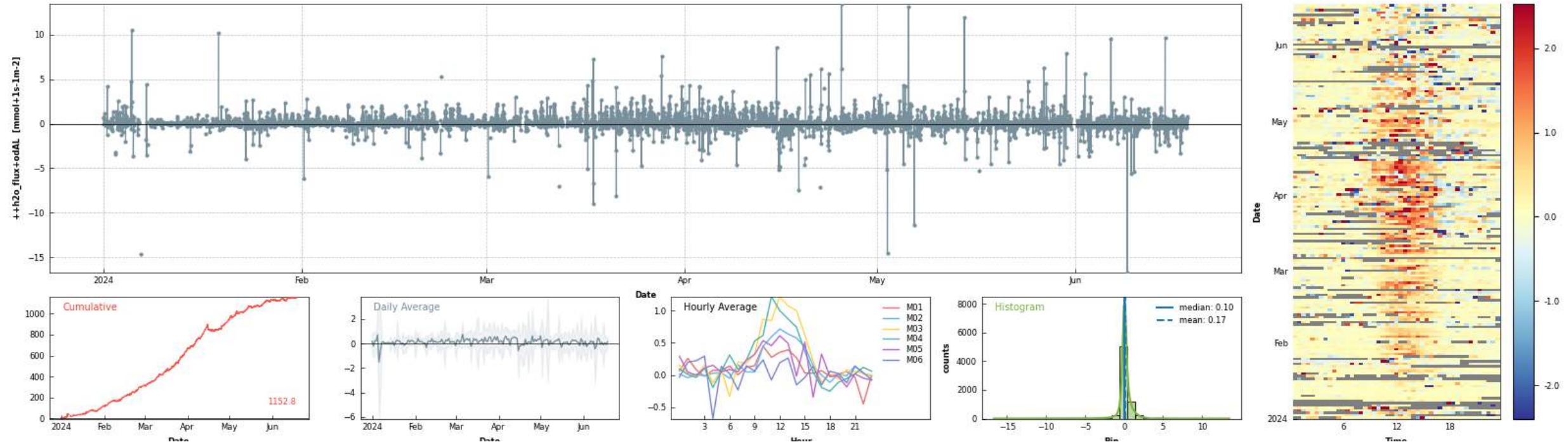




Photo: Liliana Scapucci





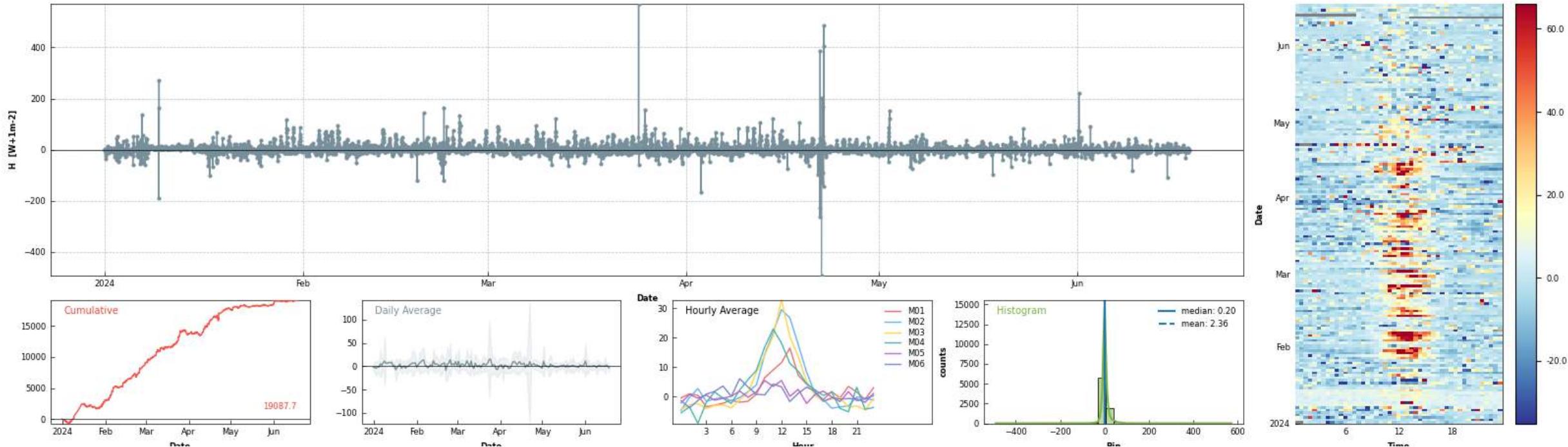
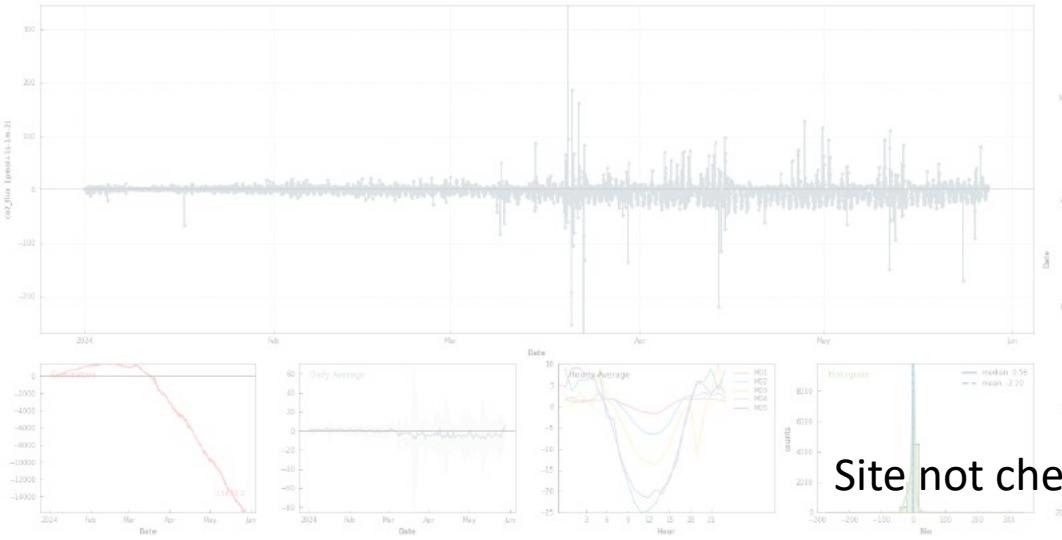




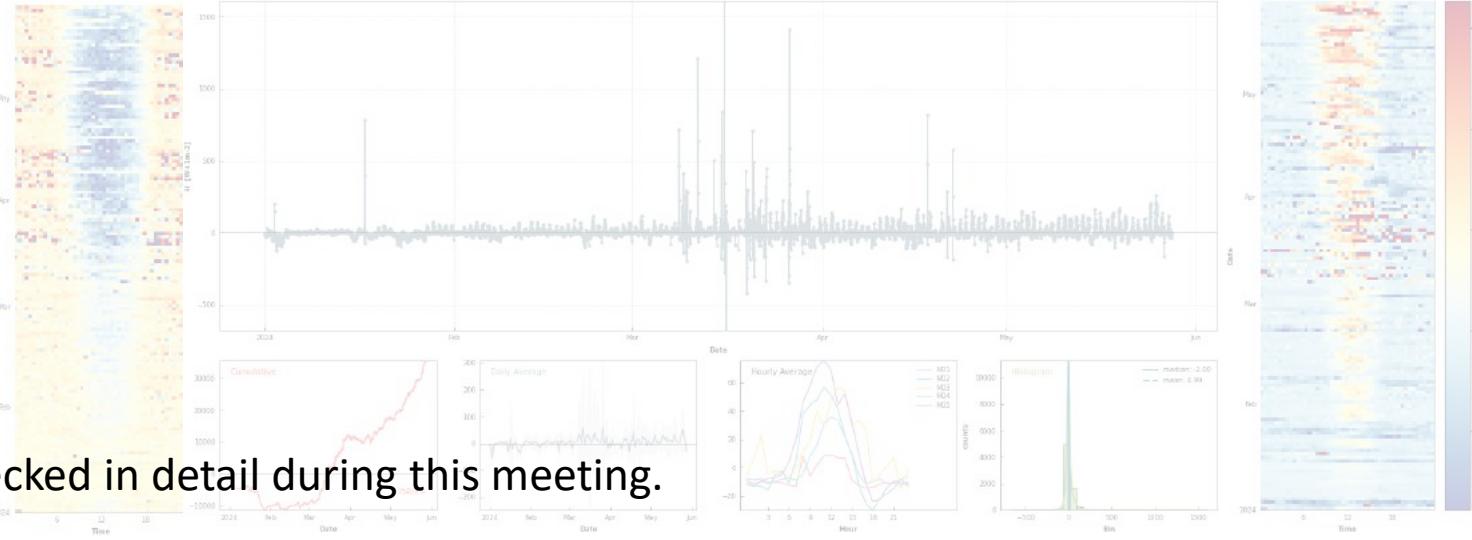
Photo: Regine Maier

- No issues to report
- Sonic issue fixed on April 5 → now H looks good

CO2 flux

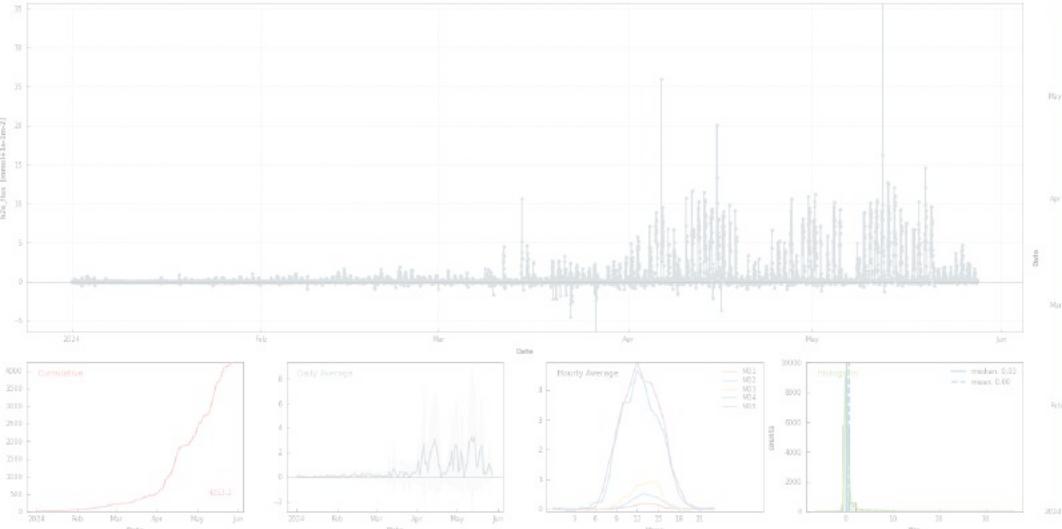


H



Site not checked in detail during this meeting.

H2O flux



w_unrot

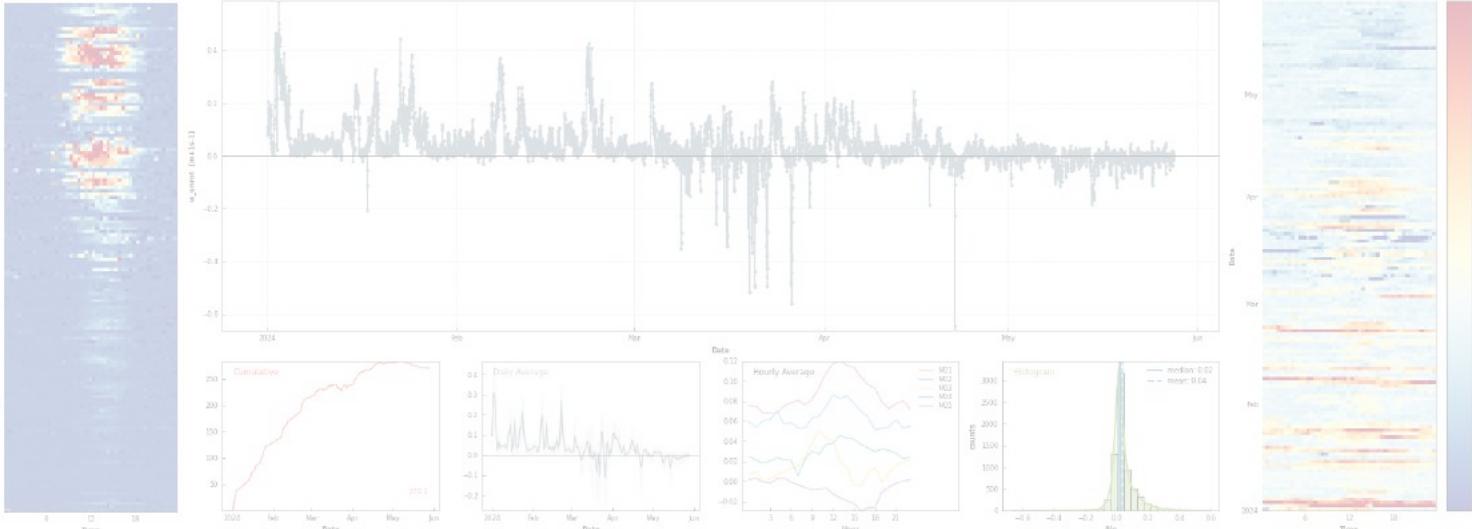




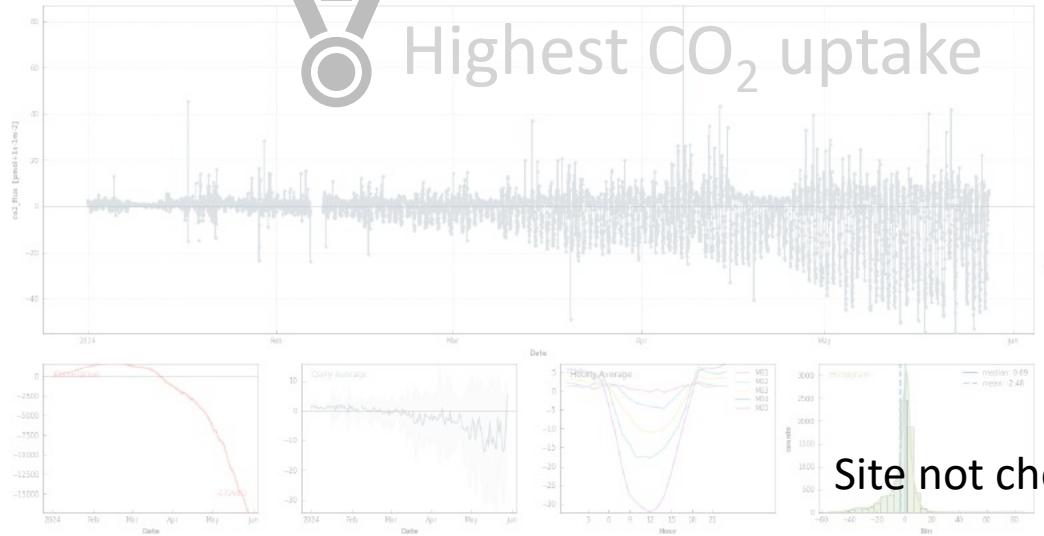
Photo: Fabio Turco

- No issues to report
- Two clear N₂O peaks observed following the 2nd and the 3rd fertilizer applications

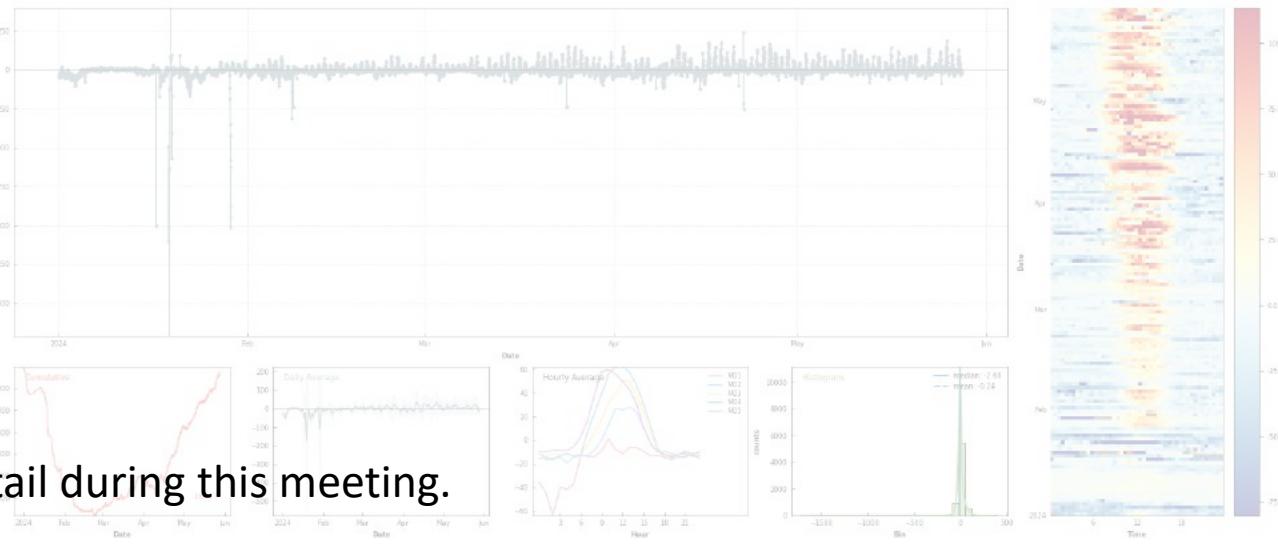
CO₂ flux



Highest CO₂ uptake

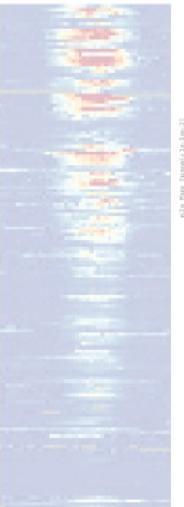
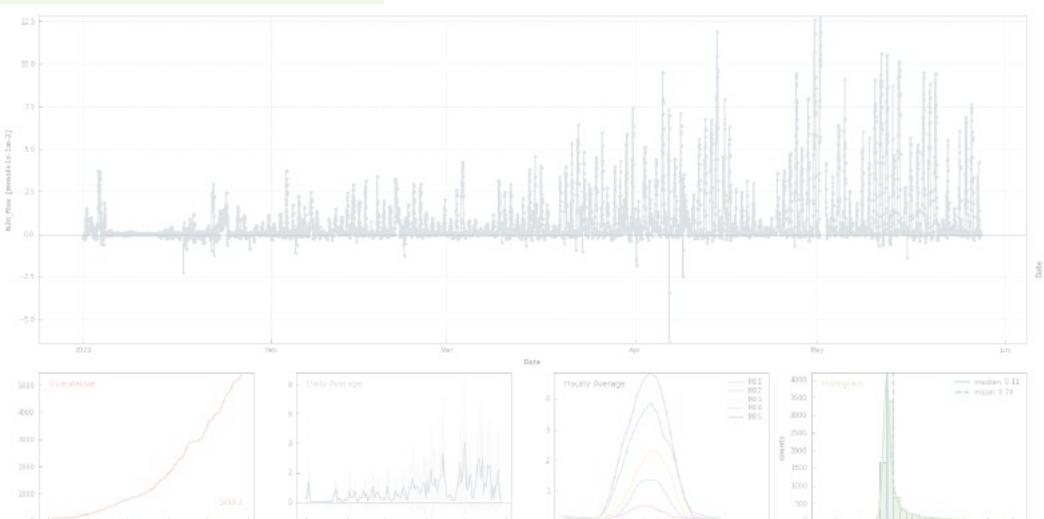


H

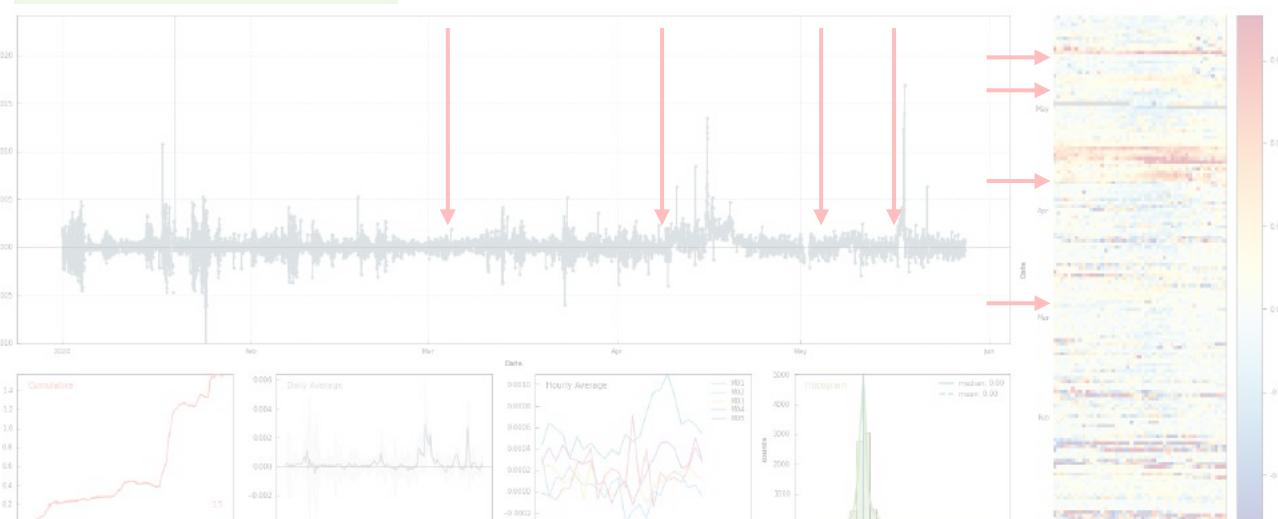


Site not checked in detail during this meeting.

H₂O flux



N₂O



Mineral N fertilizer applications