Data Management Plan for AEROMMA 2023

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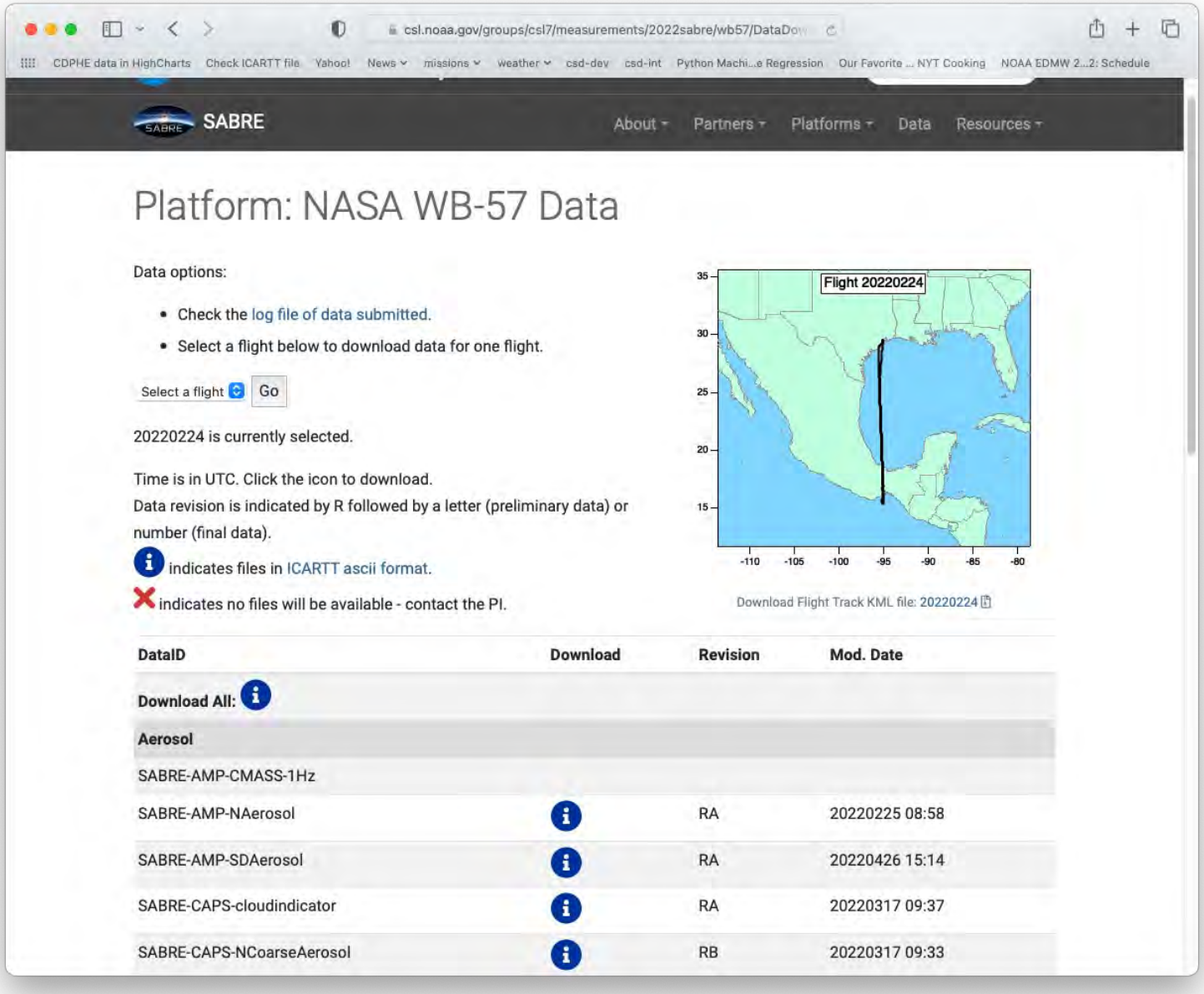
NOAA Data Repository:

https://csl.noaa.gov/projects/aeromma/data.html

- NASA DC-8 (AEROMMA)
- NOAA Twin Otter *in-situ* (CUPiDS)
- Ground sites (NYCMETS, FROG-NY, others?)
- Participating AGES data archives should have common access controls and be cross-linked (still to-do)

Example of Data Download page

Data organized by flight and then DataID
Download ICARTT and Igor files (delayed)



Aircraft Data Submission for Twin Otter, DC-8

- Aim to submit preliminary data within 24 hours of each flight day
- Final data/public release one year after the project? TBD
- Automated data submission website – checks ICARTT format and submits to archive
- Igor binary files available after the initial data submission
- Data should be aligned with aircraft met/position file
    1. Same start and stop time, same number of lines of data
    2. Ease of use for others, doesn't rely on the creation of merge files
    3. IGOR tools available for ICARTT file creation and time alignment

Data Format Requirements

- In-situ measurements should use ICARTT file format
- Files submitted through the website are scanned to ensure compliance with ICARTT format
- Detailed format description can be found at: http://www-air.larc.nasa.gov/missions/etc/IcarttDataFormat.htm
- Assistance will be provided to troubleshoot ICARTT formatting issues
- Before start of project, I will request that PIs select a DataID (used as the first part of the filename).
- ICARTT filenames should be preceded by project name e.g.

AEROMMA-AMS_DC8_20230802_RA.ict,

CUPIDS-Picarro_N48_20230802_RA.ict

ICARTT file preparation and live-data feed

Please spend time in advance to prepare ICARTT file creation software

- Easier to troubleshoot when not in the midst of field mission
- Timely data submission can also help with instrument diagnosis and facilitate quicker data analysis when data is available sooner

During DC-8 flights live-data feed will be available and should be planned for during installation and integration