#### 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)

SABRE CADAL	About	<ul> <li>Partners +</li> </ul>	Platforms - Data Resources -
Platform: NASA W	B-57 Data		
Data options:		35-	Flight 20220224
Check the log file of data submitted.			
Select a flight below to download data	for one flight.	30-	1 marsh
Select a flight 😌 Go		25 -	a b
		2)	11 - 2
20220224 is currently selected.		20 -	
Time is in UTC. Click the icon to download.	letter (preliminary data) or	15	- Alber
number (final data).	letter (premining data) or	15-	Les 1
indicates files in ICARTT ascii format.		-110 -1	1 1 1 1 1 1 05 -100 -95 -90 -85 -80
X indicates no files will be available - contac	ct the PI.	Download	Flight Track KML file: 20220224
DetailD	Download	Revision	Mod. Date
DataiD			
Download All:			
Download All:			
Download All:			
Aerosol SABRE-AMP-CMASS-1Hz SABRE-AMP-NAerosol	0	RA	20220225 08:58

## 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: <u>http://www-air.larc.nasa.gov/missions/etc/IcarttDataFormat.htm</u>
- 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