

MOOSE Field Data Repository

<https://www-air.larc.nasa.gov/missions/moose/index.html>

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MOOSE Data File Naming Convention

DataID_LocationID_YYYYMMDD_R#_Description.extension

- DataID: a short description of measured parameter/species, instrument, or model prefixed by “MOOSE”
- LocationID: an identifier of measurement platform: e.g., NASA-G3, will be provided on the website in a drop-down box titled “Platform (LocationID) :”
- YYYYMMDD: UTC date when the flight take off or the beginning of the measurement for ground sites
- R#: Revision identifier. Use letters (RA, RB, RC, ...) for field data and numbers (R0, R1, R2, ...) for the publication quality data. *Note: archived files cannot be overwritten, only replaced with subsequent revisions*
- Description: optional additional description of the file if necessary
- Extension: “ict” for ICARTT files, and “h5” for HDF 5 files, nc for netCDF files, etc.
- The underscore, “_”, is used ONLY to separate the different fields of the filename
- Examples from LISTOS:
 - listos-ASRC-O3-NO2-CPC-AMS_MOBILE_20180710_RA.ict (for field data)
 - listos-ASRC-O3-NO2-CPC-AMS_MOBILE_20180710_R0.ict (for final data)

MOOSE Data Reporting Requirements

- Keep the same number of variables and variable names for same dataID
- Use fixed variable name(s) for Time Stamps, i.e., Time_Start, Time_Stop, and/or Time_Mid. Use one of these names for 1 sec. data
- Align the sampling time within the same platform or site and indicate to what measurement the data is synched to
- Variable standard names (<https://www-air.larc.nasa.gov/missions/etc/AtmosphericCompositionVariableStandardNames.pdf>) are required for publication quality (final) data .ict files. New names can be added by contacting Gao and/or Morgan
- Add attributes for standard names when using netCDF or HDF format to maintain the uniformity
- Best practices for using standard names:
 - Use “none” for non-data product variables, e.g., total temperature
 - Use the same standard name for main variable and ancillary variable, e.g., O3 and O3_unc
 - Additional information should be provided in long name

Data Submission Process

- **DataID Registration:**

- PI will need to first register dataID(s) before files can be submitted
- dataID is part of the filename and will be used to organize PI files on the data repository
- **Instrument acronym and a brief top level data description required for each dataID**

- **Data Submission:**

- File submission will be through a scanning tool for checking filenames and ICARTT file integrity:
 - File header: structure and keywords
 - Data Flags for missing data, LOD codes
 - Time Stamps: monotonically increase with no overlaps
- Support zipped multi-file upload, the system will unzip files automatically

Data Archive: MOOSE 2021

Relevant Data / Links

- [Quicklook Reports \[public\] : View / Upload Images & Data -- Aircraft, Ground, Mobile, etc.](#)
- [File Sharing \[private\]: Forecasts, Telecons, Reports, etc.](#)

◆ Emissions . . .

- ◆ AirNow
- ◆ EGLE Air Quality Monitoring
- ◆ CASA Air Monitoring Network
- ◆ MECP Air Quality Monitoring
- ◆ IQAir
- ◆ Marathon Air Monitoring

◆ ICARTT Data Format Document

◆ Recommended Standard Variable Names For Atmospheric Composition

Data Upload Tools

- ◆ [Steps for submitting data to the Archive](#)
- [Data Submittal / Scanning](#)
» [Help FScan](#)
- [Register PI dataIDs](#)

Useful Tools

- [Download HDFView -- visual tool for browsing & editing HDF files](#)
- [Download FileScanning S/W for Windows \(Requires IE\)](#)
» [What's New](#)
- [Download Flight Planning S/W for Windows \(Requires Google Earth\)](#)

DataID Registration Page Example (1)

PI Last Name : PI First Name : Platform (LocationID) :

dataID: (max 45 chars) <i>Prefix with "camp2ex-" e.g., camp2ex-CO2</i>		Data Description: (max 380 chars) <i>Describe your measurements; e.g., Carbon Dioxide Mixing Ratio</i>	Instrument(s): (max 190 chars) <i>List Instruments; e.g., LI-COR 6252</i>
<input type="button" value="Reset"/>	<input type="text" value="camp2ex-hsking"/>	<input type="text" value="Aircraft Navigation
Aircraft Attitude"/>	<input type="text" value="GPS
INS"/>

OVERWRITE my previous record (i.e., ALL previously registered dataIDs for this mission will be removed).

To link instruments with data products, separated by CR

Link to PI webpage, instrument, or experiment description document:

Optional: to display on LaRC Archive webpage

Text describing PI experiment or measurements (e.g., NASA LaRC DIAL - Troposphere O3, Aerosols, and Clouds Profiles):

Optional: to display on LaRC Archive webpage

Current Registered dataIDs on the Server for CAMP2EX 2019

PI Name: Last.First	LocationID	Registered dataIDs
<input type="button" value="Edit"/> AKNAN.ALI (PI Link)	P3B	camp2ex-test1;camp2ex-TEST3 <input type="button" value="+ Show Description"/>
<input type="button" value="Edit"/> YANG.MELISSA	P3B	camp2ex-hsking <input type="button" value="+ Show Description"/>
<input type="button" value="Edit"/> AKNAN.ALI	MODEL	camp2ex-test1;camp2ex-TEST3;camp2ex-TEST4 <input type="button" value="+ Show Description"/>

Click on "[Refresh](#)" to retrieve the latest list.

DataID Registration Page Example (2)

Current Registered dataIDs on the Server for CAMP2EX 2019

PI Name: Last.First	LocationID	Registered dataIDs
Edit AKNAN.ALI (PI Link)	P3B	camp2ex-test1;camp2ex-TEST3 + Show Description
Edit YANG.MELISSA	P3B	camp2ex-hsking - Hide Description dataID: camp2ex-hsking Data Description: Aircraft Navigation Aircraft Attitude Dew Point Temperature Pressure Winds Instrument(s): GPS INS Cryo-Hygrometer TTS PT Derived
Edit AKNAN.ALI	MODEL	camp2ex-test1;camp2ex-TEST3;camp2ex-TEST4 + Show Description

Click on "Refresh" to retrieve the latest list

Data Submission Page

MOOSE File Scanning and Submittal
[ICARTT File Format Document](#)

IMPORTANT: In order to archive files, [dataID\(s\)](#) must be registered first because the PI Data Directory on the Server will be created from the registration.

[Help](#)

What to do: Scan Only Scan and Archive (see dataIDs note above)

File Upload : No file chosen (Select your file)

This is Final (i.e., NOT Field) data -- File Revision MUST be set to R0, R1, etc.

[How to upload multiple files in one step.](#) [How to archive *.zip ICARTT files.](#)

This application scans three (3) file types -- defined as ICARTT: [FFI 1001](#), [FFI 2110](#), and [FFI 2310](#)

Select Data Time-Interval Type :

Display FScan results (report) : Detailed Brief

Submit

 Pressing this button will Scan *[and Archive]* the selected file(s).

Please scan your files on your machine first using [FScanBrowser \(Windows\)](#)
***** Your Browser should allow FScan to open a new Window (to display FScan's results) *****

By: [Ali Aknan](#) -- Ver 3.7.5 (May 04, 2021)
*** FScan is optimized for Chrome and Mozilla-based Browsers. Browser must be JavaScript Enabled ***

Key Steps:

- Choose “Scan only” to check format compliance or “Scan and Archive” to submit data file(s)
- Check “This is Final...” box when submitting final/publication quality data
- Choose appropriate data time intervals for .ict files only

- **Point of Contact**

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