Thank You!!!

We have produced 3915 files for over 500 atmospheric measurements

Platform	Number of Files
DC-8	2099
ER-2	1187
LearJet	406
Sondes	223
Total	**3915**

Next Step

- New merges for revised data
- Transfer Data to ASDC and data will be available in TAD (toolsets for airborne data): tad.larc.nasa.gov, which allows to make customized merge for variables of your interest with an option to estimate standard deviation and propagate measurement uncertainties.
- Register DOI for literature data reference
- Document the comparison results
- Project recommended data for state variables?

Merges

- 18 DC-8 versions and 12 ER-2 versions, need a different way to notify science team about the merge updates?
- File size too large to ftp? Too many variables? File header and readme file
- Better naming schemes?
- NetCDF option?

Digital Object Identifiers (DOI)

Promise to be:

Unique DOI name and URL for each data set

DOI Name = 10.5067/Aircraft/DISCOVER-AQ/Aerosol-TraceGas

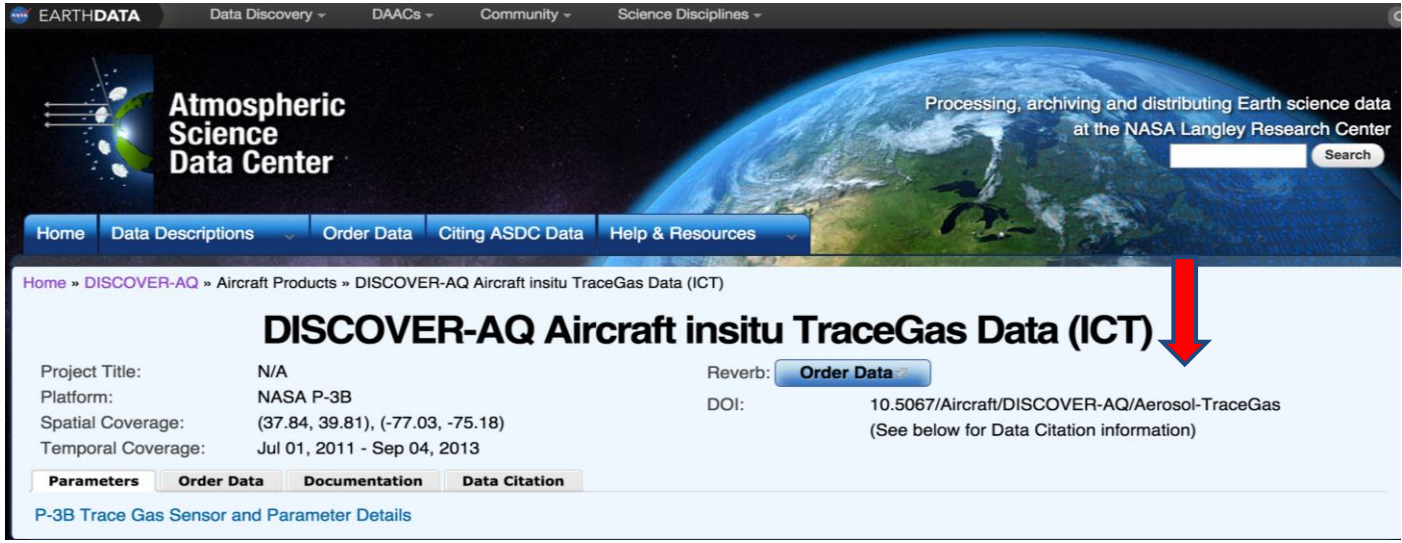
Prefix/Platform/Mission/Atmospheric-Composition

Permanent for long term preservation and distribution beyond the project lifecycle

Actionable (Resolvable link to actual data website)

https://eosweb.larc.nasa.gov/project/discover-aq/discover-aq_aircraft_navigational_data_p3b_table

Demonstration: Go to http://crosscite.org/citeproc/ and paste the DOI Name into the space provided, a reference for a research paper can be created to track the data usage back to the NASA center that hosts the data.



Proposed SEAC4RS DOI:

10.5067/Aircraft/SEAC4RS/Aerosol-TraceGas-Cloud

- Provide a data reference for future publication
- The DOI covers the entire SEAC4RS data set
- The SEAC4RS DOI coming soon
- The DOI for DISCOVER-AQ, ATTREX, DC3, INTEX-A, and INTEX-B are registered and ready to use for data reference

TAD Login page

TAD merge UI

Select Variables | Create Merge Data | Request PI Data

Merge Data Variable(s)

Follow the steps below to order a weighted average of data based on the selected variables that has been merged into a chosen time base. The variables are separated into accordions based on each mission/platform and must be ordered individually. To learn more, select the information icon at each step.

ARCTAS/DC8 – 2 variable(s)

Refine Variable Selection

Remove	PI Variable Name	PI	Units	Data ID	Instrument	Output Name
X	ACETONITRILE_ppbV	Wisthaler, Armin	ppbv	ARCTAS-PTRMS-ACETONIT...	PTR-MS	ACETONITRILE_ppbV_Wisthaler
X	Acetonitrile	Apel, Eric	pptv	ARCTAS-TOGA	TOGA	Acetonitrile_Apel

Select Merge Time Base

Data ID Time Base | ARCTAS-PTRMS-ACETONITRILE

PI	Data ID	Data Source Description
Wisthaler, Armin	ARCTAS-PTRMS-ACETONITRILE	PTR-MS instrument acetonitrile mixing ratios, A. Wisthaler

Note: All variables from the selected data ID will be included in the output file(s).

Select Flight Dates (optional)

Select Start Date: | Select End Date:

Note: Unless a temporal subset is set, time domain for the date merge is the entire mission.

Select Processing/Output Options

- (●) Average Only
- ( ) Average, Standard Deviation, Number of Points
- ( ) Average, Standard Deviation, Number of Points (with LOD processing)

Note: All output files will include the weighted average of each variable, merged into the chosen time base. Select additional processing options above.

Create Merge File(s)

Order Merged ARCTAS/DC8 File(s)

DISCOVERAQ MD/P3B – 1 variable(s)

Back to Select Variables