



# A-Train Datalist - A New GES DISC Service to Allow One-Stop Shopping for A-Train Data

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NASA/Goddard EARTH SCIENCES DATA and INFORMATION SERVICES CENTER (GES DISC)

Data & Other (SS)-03

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## Abstract

The currently available services at the Goddard Earth Sciences Data Information Services Center (GES DISC) only allow users to select variables from a single data set at a time. Because entire variables from a data set are often displayed, user selection of variables of interest can be overwhelming.

At the American Geophysical Union (AGU) 2016 Fall Meeting, GES DISC unveiled a new service called "Datalist": a collection of predefined or user-defined data variables from one or more archived data sets. Our science support team has been curating Datalists and providing added value to the user community.

Originally known as "Afternoon Constellation", A-Train includes six currently on polar-orbiting Earth observation satellites: OCO-2, GCOM-W1, Aqua, CALIPSO, CloudSat, and Aura, which travel a few minutes apart from each other. This constellation arrangement has enabled coordinated science observations further forming comprehensive pictures of Earth weather and climate that are readily for use in crucial studies such as climate change.

GES DISC Datalists are based on the software architecture of the new GES DISC website (also unveiled at the AGU 2016 Fall Meeting). The GES DISC science support team has created a Datalist to support the A-Train Data Depot (ATDD). Using pre-defined Datalist should hopefully save users significant effort in their data searches.

## Solution

- GES DISC's new data collection service
  - Data Collection comes from predefined Project (e.g., ATDD)
- GES DISC's new datalist service
  - Datalist is a collection of predefined or user-defined data variables from one or more archived data sets

## Search and Result

Key in "ATDD"

Find predefined Project "ATDD"

One available GES DISC datalist with keyword "ATDD"

Please check our other Poster (by Ding et al) to find A Train collocated capability from GES DISC

## Subsetting

Currently support L1/L4 subsetting

Subsetting L2 is under development

## Datalist Landing Page

All Available Access

## Challenges

- New users to Earth science do not know where to start
- Societal Benefit Areas require multiple data sets and multiple variables
- Existing GES DISC services limitation
  - Only allow users to select variables from a single data set at a time
  - Display too many variables from a data set, making user selection of variables of interest difficult

## Data Collection Landing Page

All Available Access

Project Summary Dataset Citation Documentation

## Data Download

One Stop Shopping

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Contact Us



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