

Group DOI

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Group DOI discussion

Potential use for the proposed **Document** Group DOI

Data producers have indicated that they would like a simple way to refer to their entire mission data holdings when at conferences (in posters and presentations), at science meetings, and in summary reports.

Use of a **document DOI** would allow:

- Single point of reference for **information** about a mission, or a series of aircraft flights, or measurements related to a meteorological phenomena
- A way to introduce a new user to information and documentation associated with data, with direct access to to the data from this page.
- Web page URLs have the potential to change, resulting in stale or broken URLs, while DOIs are stable through the DOI registration system.
- As the data collections are updated to new versions, or as new products are added, only the document would need to be updated. There would be no need to request a new DOI. This would eliminate stale group DOIs as the mission evolves

Sample Document Mission Page



MERRA-2 Data Access – Quick Guide

Updated: Mar 9, 2021

Welcome to Goddard Earth Sciences Data and Information Services Center (GES DISC). The following links direct you to various information on the [NASA MERRA version 2](#) (MERRA-2) reanalysis dataset and instructions to find and access data:

- [Documentation](#)
- [FAQs and Data How-tos](#)
- [Data Access Methods](#)
- [Data Collections](#)
- [Data Collection Naming Convention](#)
- [Data Filenaming Convention](#)
- [Table of Vertical Levels](#)
- [Primary References](#)

Outline of contents of a typical mission page

Documentation

Document Type	Document Link	Description
Data Latency	MERRA-2 Data Latency	MERRA-2 data are available from January 1980 to the present (data are usually available ~3 weeks of the following month).
File Specification	MERRA-2 Data File Specification	Overview of the MERRA-2 system, including algorithms and variable list of each data collection.
	MERRA-2 Climate Statistics Product	Overview of algorithms of the MERRA-2 Climate Statistics

Sample Document Mission Page

MERRA-2 Sub-daily and Monthly Products:

(Daily mean can be calculated via the GES DISC Subsetter service, [click for an example](#))

Product Groups	Description (Click on description to view the variable list)	Sub-daily Data Collection	Monthly mean Data Collection	Monthly diurnal mean Data Collection
Instantaneous 2-dimensional	Assimilation, Single-Level Diagnostics	M2I1NXASM (inst1_2d_asm_Nx)	M2IMNXASM (instM_2d_asm_Nx)	M2IUNXASM (instU_2d_asm_Nx)
	Assimilation, Vertically Integrated Diagnostics	M2I1NXINT (inst1_2d_int_Nx)	M2IMNXINT (instM_2d_int_Nx)	M2IUNXINT (instU_2d_int_Nx)
	Assimilation, Land Surface Forcing	M2I1NXLFO (inst1_2d_lfo_Nx)	M2IMNXLFO (instM_2d_lfo_Nx)	M2IUNXLFO (instU_2d_lfo_Nx)
	Assimilation, Aerosol Optical Depth Analysis	M2I3NXGAS (inst3_2d_gas_Nx)	M2IMNXGAS (instM_2d_gas_Nx)	M2IUNXGAS (instU_2d_gas_Nx)
	Assimilation, Aerosol Mixing Ratio at 72 Model Levels	M2I3NVAER (inst3_3d_aer_Nv)		
	Assimilation, Carbon Monoxide and Ozone Mixing Ratio at 72 Model Levels	M2I3NVCHM (inst3_3d_chm_Nv)		
	Assimilation, Aerosol Mixing Ratio Analysis Increments at 72 Model Levels	M2I3NVGAS (inst3_3d_gas_Nv)		
		M2I3NPASM	M2IMNPASM	M2IUNPASM

Collections can be updated as needed within the document and each collection has its own unique data DOI

Group DOI discussion

The **document DOI** would **not**:

- Replace any DOIs associated with specific collections. **Data** DOIs will be used as designed and is the preferred method to associate provenance with data, versions of data, and individual collections.

The **document DOI** would:

- Allow for one central location to summarize a mission or project, provide documentation, and guide users to direct access to a large group of data products and related services
- Allow for a way to reference multiple collections at meetings and conferences when time and poster space is limited
- Provide a way to refer to a group of data products, not to a specific version of a collection.
- Allow for a much simpler way to maintain information when new collections and/or versions are added to missions or projects, compared to a Group **Data** DOI.