UMM-C Schema Representation

Canonical UMM-C schema definitions

Element	Definition	Required
Metadata Language	This element specifies the language used in the metadata record (i.e. English, French, Chinese, etc.).	No
Metadata Dates	This element is used to identify dates when the *metadata* changed in some way. This element is made of two sub-elements, Type and Date.	No
Directory Names	This element has been used historically by the GCMD internally to identify association, responsibility and/or ownership of the dataset, service or supplemental information. Note: This field only occurs in the DIF. When a DIF record is retrieved in the ECHO10 or ISO 19115 formats, this element will not be translated.	No
Entry Title	This element describes the title of the dataset described by the metadata.	Yes
DOI	This element stores the DOI (Digital Object Identifier) that identifies the dataset.	Yes
Other Identifiers	Provides additional or provider defined identifiers of the collection.	No
File Naming Convention	This element refers to the naming convention of the data set's (Collection's) data files along with a description of the granule file construction.	No
Associated DOIs	This element stores DOIs that identify associated collections or other associated items to this collection.	No
Abstract	This element provides a brief description of the dataset the metadata represents.	Yes
Purpose	This element contains suggested usage for the data and/or a description of why the resource exists.	No
Data Language	This element describes the language used in the preparation, storage, and description of the collection. It is the language of the collection data itself. It does not refer to the language used in the metadata record (although this may be the same language)	No
Data Dates	This element is used to identify dates when the *data* or *resource itself* changed in some way.	No
Data Centers	This element is used to identify and provide contact information for the organization responsible for originating, processing, archiving, and/or distributing the dataset being described in the metadata.	Yes
Contact Groups	This element is used to provide contact information for a group associated with the dataset.	No
Contact Persons	This element is used to provide contact information for an individual associated with the dataset.	No
Collection Data Type	This element is used to identify the collection as a Science Quality Collection or as a non-science-quality collection such as a Near Real Time (NRT) collection.	No
StandardProduct	This element is reserved for NASA records only. A Standard Product is a product that has been vetted to ensure that they are complete, consistent, maintain integrity, and satisfies the goals of the Earth Observing System mission. The NASA product owners have also committed to archiving and maintaining the data products. More information can be found here: https://earthdata.nasa.gov/eosdis/science-system-description/eosdis-standard-products.	
Processing Level	This element describes an identifier indicating the level at which the data in the collection are processed, ranging from level 0 (raw instrument data at full resolution) to level 4 (model output or analysis results).	Yes
Collection Citations	This element provides the information required to properly cite the collection in professional scientific literature.	No
Collection Progress	This element describes the production status of the dataset.	Yes
Data Maturity	This element is used to inform users on where the collection is in a collection's life cycle.	No
Quality	This element describes the quality of the dataset.	No
Use Constraints	This element defines how data may or may not be used to assure the protection of privacy or intellectual property. This includes license information, or any special restrictions, legal prerequisites, terms and conditions, and/or limitations on using the dataset.	No

Access Constraints	This element describes any restrictions imposed on data access. Access Constraints can be described in a free text field with the option to provide an access control list (ACL) value.	No
Archive and Distribution Information	This element and all of its sub-elements allow a data provider to provide archive and distribution file information upfront to an end user, to help them decide if they can use the product. The file information includes AverageFileSize - typically used for granules as well as file formats and other file information.	No
Direct Distribution Information	The direct distribution information main element allows data providers to provide users information on getting direct access to data products that are stored in the Amazon Web Service (AWS) S3 buckets when they are initially looking at a collection. The end users get information such as the S3 credentials end point, a credential documentation URL, as well as bucket prefix names, and an AWS region.	No
Publication References	This element describes key bibliographic citations pertaining to the collection.	No
ISO Topic Category	This element identifies the topic category (or categories) from the EN ISO 19115 Topic Category Code List that pertain to a collection.	No
Science Keywords	This element enables the specification of Earth Science keywords.	Yes
Ancillary Keywords	This element allows metadata authors to provide words or phrases beyond the controlled Science Keyword vocabulary to further describe the collection.	No
Additional Attributes	This element stores the data's distinctive attributes (i.e. attributes used to describe the unique characteristics of the resource which extend beyond those defined in this mapping).	No
Metadata Association	This element is used to identify other metadata resources that are dependent on or related to the data described by the metadata.	No
Temporal Extents	This element describes when data were acquired or collected.	Yes
Paleo Temporal Coverage	This element defines the time period for geologic and/or paleoclimate data. The element is predominantly used for data samples that originated prior to 01-01-0001.	No
Temporal Keywords	This element specifies a word or phrase which serves to summarize the temporal characteristics of a dataset.	No
Spatial Extent	This element describes the geographic coverage of the data.	Yes
Tiling Identification System	This element defines a named two-dimensional tiling system related to the collection.	No
Spatial Information	This element stores information about the reference frame from which horizontal and vertical spatial domains are measured. The horizontal reference frame includes fields for Geodetic Model, Geographic Coordinates, and Local Coordinates. The Vertical reference frame includes fields for altitudes (elevations) and depths.	No
Location Keywords	This element contains keywords that characterize the study area/region where data was collected.	No
Platforms	This element describes the relevant platforms used to acquire the data.	Yes
Instruments	This element is used to register the device that measured or recorded the data, including direct human observation.	No
Projects	This element describes the scientific endeavor(s) with which the collection is associated.	No
Related URLs	This element describes any resource-related URLs that include project home pages, resource information pages, services, related data, archives/servers, metadata extensions, direct links to online software packages, web mapping services, links to images, documents, or other data.	Yes
Short Name	This element identifies the dataset's short name.	Yes
Version	This element identifies the dataset version.	Yes
Version Description	This element describes the version of the dataset.	No
Metadata Specification	The Metadata Specification element requires the user to add in schema information into every collection record. It includes the schema's name, version, and URL location.	Yes