



Norwegian  
Meteorological  
Institute

# Data Management Handbook template for MET and partners in S-ENDA written in asciidoc

Nina E. Larsgård, Elodie Fernandez, Morten W. Hansen, ...



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# Abstract

Abstract will come here..

## Revision history

Version	Date	Comment	Responsible
2.0	2021-??-??	New version based on original MET DMH	Nina E. Larsgård, Elodie Fernandez, Morten W. Hansen, ...



# 1. Introduction

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## 2. Global attributes that should be added to NetCDF-CF files

In order to add netCDF-CF datasets to the discovery metadata catalog, the data producer should populate the file with certain global attributes mainly described in the Attribute Convention for Data Discovery (ACDD). For a complete description of the ACDD elements, please refer to [http://wiki.esipfed.org/index.php/Attribute\\_Convention\\_for\\_Data\\_Discovery](http://wiki.esipfed.org/index.php/Attribute_Convention_for_Data_Discovery).

The ACDD recommendations should always be followed in order to properly document your netCDF-CF files. However, the below tables summarize the attributes that are needed to properly populate a discovery metadata catalog which fulfills the requirements of international standards (e.g., GCMD/DIF, the WMO profile of ISO19115, etc.).

The following ACDD elements are required:

ACDD Attribute	Repetition allowed	Separator	Default	MMD equivalent
id	no			metadata_identifier
date_created	yes	,		last_metadata_update>update>datetime
date_metadata_modified	yes	,		last_metadata_update>update>datetime
title	yes	;		title>title
summary	yes	;		abstract>abstract
geospatial_lat_max	no		90	geographic_extent>rectangle>north
geospatial_lat_min	no		-90	geographic_extent>rectangle>south
geospatial_lon_max	no		180	geographic_extent>rectangle>east
geospatial_lon_min	no		-180	geographic_extent>rectangle>west
keywords_vocabulary	yes	,		keywords>vocabulary
keywords	yes	,		keywords>keyword

The following ACDD elements are recommended:

ACDD Attribute	Repetition allowed	Separator	Default	MMD equivalent
time_coverage_start	yes	,	1850-01-01T00:00:00Z	temporal_extent>start_date

time_coverage_end	yes	,		temporal_extent>end_date
processing_level	no			operational_status
license	no			use_constraint>identifier
['creator_role', 'contributor_role']	yes	,	unknown	personnel>role
['creator_name', 'contributor_name']	yes	,	unknown	personnel>name
creator_email	yes	,	unknown	personnel>email
creator_institution	yes	,	unknown	personnel>organisation
institution	yes	,		data_center>data_center_name>short_name
institution	yes	,		data_center>data_center_name>long_name
publisher_url	yes	,		data_center>data_center_url
project	yes	;		project>short_name
project	yes	;		project>long_name
platform	yes	,		platform>short_name
platform	yes	,		platform>long_name
platform_vocabulary	yes	,		platform>resource
instrument	yes	,		platform>instrument>short_name
instrument	yes	,		platform>instrument>long_name
instrument_vocabulary	yes	,		platform>instrument>resource
source	yes	;		activity_type
creator_name	yes	,		dataset_citation>author
date_created	yes	,		dataset_citation>publication_date

title	yes	,		dataset_citation>title
publisher_name	yes	,		dataset_citation>publisher
metadata_link	yes	,		dataset_citation>url
references	yes	,		dataset_citation>other

In addition, some global attributes are useful for the discovery metadata catalog but do not exist in ACDD. Please refer to the documentation of [MMD](https://htmlpreview.github.io/?https://github.com/metno/mmd/blob/master/doc/mmd-specification.html) [https://htmlpreview.github.io/?https://github.com/metno/mmd/blob/master/doc/mmd-specification.html] for a description of these elements:

Extra Attribute	Repetition allowed	Separator	Default	MMD equivalent
date_created_type	yes	,	Created	last_metadata_update>update>type
collection	yes	,		collection
title_lang	yes	,	en	title>lang
abstract_lang	yes	,	en	abstract>lang
dataset_production_status	no			dataset_production_status
license_resource	no			use_constraint>resource
contributor_email	yes	,	unknown	personnel>email
contributor_organisation	yes	,	unknown	personnel>organisation
iso_topic_category	yes	,		iso_topic_category
keywords_resource	yes	,		keywords>resource