



EOSDIS

NASA'S EARTH OBSERVING SYSTEM
DATA AND INFORMATION SYSTEM

WGISS-45 International Directory Network (IDN) Report

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CEOS WGISS-45 Meeting
Session: Data DISCOVERY and ACCESS
Location: National Institute for Space Research (INPE)
São Jose dos Campos, Brazil
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International Directory Network (IDN) Topics

- I. Transition of DIF-9 to DIF-10 Metadata Records
- II. GCMD Keyword Update
- III. DIF-10 and UMM-C Schema Changes
- IV. Metadata Validation
- V. docBUILDER for Submitting IDN Metadata (i.e. Registration)
- VI. Mapping WGClimate Essential Climate Variable (ECV) Inventory to IDN Records

I. TRANSITION DIF-9 TO DIF-10

Why Transition From DIF-9 to DIF-10?

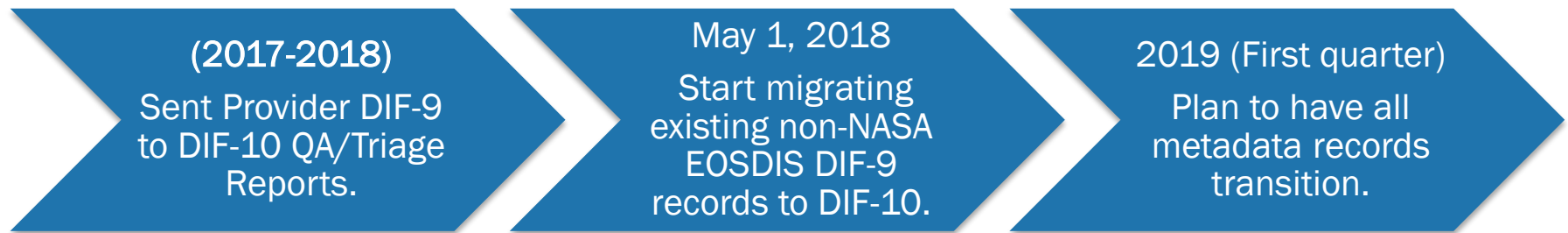
- DIF-10 offers improvements to the DIF including:
 - New fields (Ex: Product_Level_ID)
 - Renamed fields (Ex: Parameters changed to Science_Keywords)
 - Restructured fields (Ex: Hierarchical representation of Platforms/Instrument).
- These changes serve to bring the DIF in compliance with NASA's Unified Metadata Model (UMM) and integrate features requested by the IDN community.

DIF-9 Fields Mapped to Required DIF-10 Fields

| DIF-9 Fields | DIF-10 Fields |
|---|------------------------------------|
| <i>Data Center/Organization</i> | <i>Organization</i> |
| Data Set Progress | Data Set Progress |
| <i>Entry_ID</i> | <i>Entry_ID (Shortname)</i> |
| <i>Data_Set_Citation/Version</i> | <i>Entry_ID (Version)</i> |
| Entry_Title | Entry_Title |
| ISO Topic Category | ISO Topic Category |
| <i>Source/Sensor</i> | <i>Platform/Instrument</i> |
| Project | Project |
| Related URL | Related URL |
| Science Keywords | Science Keywords |
| Spatial Coverage | Spatial Coverage |
| Summary | Summary |
| Temporal Coverage | Temporal Coverage |
| <i>None</i> | <i>Product Level ID</i> |

RED fields indicate changes between DIF-9 and DIF-10

DIF-9 to DIF-10 Transition Schedule



- Providers need to submit new metadata in DIF-10 or any format compatible with NASA's Common Metadata Repository (CMR).
 - Compatible formats: DIF-10, NASA ISO (MENDs), and UMM-JSON.
- docBUILDER supports DIF-10 format.

Provider QA/Triage Reports

- The reports are a list of DIF-9 records that are missing required DIF-10 field values needed for ingest.
- The reports consist of 2 sections:
 - An Overview page
 - Listing of the missing fields
 - Total number of effected fields
 - Number of records effected.
 - Summary of the process and additional information
 - Record by Record of issues
 - List of the individual records
 - Identified by CMR unique ID and Entry_ID
 - Effected field XPath
 - Type of issue

QA/Triage Reports: Overview

| | A | D | E |
|----|---|---------------------------|----------------|
| 1 | Antarctic Data Centre, Australia (AADC) Metadata Quality Assurance (QA) Report to Upgrade to DIF-10 from DIF-9 Number of records effected: 2711 Compiled on 2018-02-13 | | |
| 2 | XPath | Total Field Values | Records |
| 3 | /DIF/Data_Set_Citation/Version | 2708 | 2708 |
| 4 | /DIF/Product_Level_Id | 2711 | 2711 |
| 5 | /DIF/Project/Short_Name | 2534 | 2534 |
| 6 | /DIF/Sensor_Name/Short_Name | 1693 | 1693 |
| 7 | /DIF/Source_Name/Short_Name | 653 | 653 |
| 8 | /DIF/Spatial_Coverage | 6 | 6 |
| 9 | /DIF/Temporal_Coverage | 6 | 6 |
| 10 | | 10311 | |
| 11 | | | |

QA/Triage Reports: Record By Record

| | A | C | D | E | F |
|------|---------------------|--|-----------------------|----------------------|------------------------|
| 1 | Concept-ID | EntryID | Field Xpath | Type of DIF-10 check | Type of DIF-10 Issue |
| 3812 | C1214311201-AU_AADC | macca_SPOT3_georef | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3813 | C1214311687-AU_AADC | AAS_4092_1159 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3814 | C1214312952-AU_AADC | ASAC_760 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3815 | C1273648982-AU_AADC | AAS_3338_Davis_Gravel_Runway | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3816 | C1214308575-AU_AADC | GP_Bibliography | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3817 | C1214308592-AU_AADC | gillock_isl_sat | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3818 | C1214311440-AU_AADC | vestfold_seals_gis | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3819 | C1214311790-AU_AADC | ASAC_1071_Geomorphic_Map | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3820 | C1214311220-AU_AADC | oldcasey_buildings_gis | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3821 | C1214312530-AU_AADC | ASAC_1163_WilkesGis_1999 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3822 | C1214312447-AU_AADC | ASAC_1163_WilkesGIS_2010 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3823 | C1214305788-AU_AADC | ASAC_1332 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3824 | C1409214638-AU_AADC | AAS_4062_DSS1617_Glacial_isotopic_composition | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3825 | C1409214682-AU_AADC | AAS_4062_DSS1617A_Glacial_isotopic_composition | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3826 | C1366863846-AU_AADC | AAS_4077_ELEV | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3827 | C1214308596-AU_AADC | glacio_1981_traverse_data_report | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3828 | C1214313504-AU_AADC | glacio_87_traverse1a | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3829 | C1214313505-AU_AADC | glacio_87_traverse1b | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3830 | C1214313506-AU_AADC | glacio_87_traverse2 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3831 | C1214313507-AU_AADC | glacio_87_traverse3a | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3832 | C1214313508-AU_AADC | glacio_87_traverse3b | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3833 | C1214313509-AU_AADC | glacio_87_traverse4 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3834 | C1214313458-AU_AADC | glacio_87_traverse5 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3835 | C1291724265-AU_AADC | lawdome_1970 | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3836 | C1292614797-AU_AADC | icecore_borehole_orientation_1970s | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3837 | C1214308597-AU_AADC | glacio_data_report_1978_casey | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3838 | C1214308572-AU_AADC | glacio_data_report_1979_casey | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3839 | C1214308598-AU_AADC | glacio_data_report_1981_casey | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3840 | C1278304362-AU_AADC | glacio_data_report_1982_casey | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3841 | C1214308599-AU_AADC | glacio_data_report_1983_casey | /DIF/Product_Level_Id | RequiredFieldCheck | Missing Required Field |
| 3842 | C1214308600-AU_AADC | glacio data report 1986 casey | /DIF/Product_Level Id | RequiredFieldCheck | Missing Required Field |

◀ ▶ Overview **RecordbyRecord** +

Population of DIF-10 Required Fields

- Providers have 3 options:
 - Update the DIF-9 records with the corresponding DIF-10 required fields.
 - Provide the GCMD/IDN staff with the required fields values.
 - Or, GCMD/IDN staff will transition records directly to DIF-10 using default values for the required fields. (Example default value: “Not provided”)

If you have any questions or your agency has not received a Provider QA/Triage report, please contact the GCMD/IDN User Support Office at GSFC-GCMDUSO@mail.nasa.gov or myself at Michael.P.Morahan@nasa.gov.

II. GCMD KEYWORD UPDATE

Keyword Version 8.6 Release (Spring 2018)

Related URL

- Added: 32
- Deleted: 4
- Modified: 17

Water Quality/Water Chemistry

- Added: 33
- Deleted: 0
- Modified: 24

**If you are interested in becoming a keyword reviewer,
please contact the ESO at eso-staff@lists.nasa.gov.**

Keyword Version 8.7 Proposed Topics (2019)

Cryosphere

Earth Science Services/
Web Services

Keyword Landing Page

- ✓ Access the GCMD Keywords
- ✓ Submit a Keyword Request
- ✓ See the Keyword Release Announcements
- ✓ Review the Keyword Governance Document

The screenshot shows the 'Global Change Master Directory (GCMD) Keywords' landing page. The page has a search bar at the top right with the text 'Search datasets, news, articles, and information'. Below the search bar is a navigation breadcrumb: 'About EOSDIS > Global Change Master Directory (GCMD) > Global Change Master Directory (GCMD) Keywords'. The main content area is divided into two columns. The left column contains 'GCMD Keyword Links (Earthdata Wiki)' with links for 'Access the GCMD Keywords', 'Submit a Keyword Request', 'Keyword Release Announcements', and 'Keyword Community Forum'. Below this is a 'More Resources' section with links to 'Global Change Master Directory (GCMD)', 'Common Metadata Repository (CMR)', 'ESDIS Standards Office (ESO)', 'Keyword Governance and Community Guide Document', and 'GCMD Keyword Viewer (Alpha)'. The right column features the title 'Global Change Master Directory (GCMD) Keywords' with social media icons. Below the title is a paragraph explaining that GCMD Keywords are a hierarchical set of controlled Earth Science vocabularies. A bulleted list of categories follows: Earth Science, Earth Science Services, Data Centers, Projects, Instruments/Sensors, Platforms/Sources, Locations, Horizontal Data Resolution, Vertical Data Resolution, Temporal Data Resolution, URL Content Types, and Chronostratigraphic Units. Below the list is a paragraph stating that the page seeks to define how the GCMD Keywords are structured, used, and accessed. At the bottom of the right column is a 'GCMD Keyword Community Forum' section with a brief description and a thumbnail image of the forum interface. At the very bottom of the page is a 'More Information About the Keywords' section with three links: 'GCMD Keyword Structure', 'Community Use of GCMD Keywords', and 'GCMD Keyword Governance and Community Guide Document'.

<https://earthdata.nasa.gov/about/gcmd/global-change-master-directory-gcmd-keywords>

III. DIF-10 AND UMM-C AND SCHEMA CHANGES

DIF-10.3 Updates

- Existing fields now required:
 - Data_Set_Progress and Product_Level_ID
- Add new sub-fields for :
 - Distribution: Average_Granule_Size and Total_Collection_Size
 - Access_Constraints and Use_Constraints: Type
 - Related_URL/Related_URL Type: URLContentType
- Made optional:
 - Data_Creation and Data_Last_Revision
- Allow:
 - “not applicable” to be specify for Dataset_Citation/Persistent_Identifier.

UMM-C 1.10 Updates

- Add:
 - New UseConstraints sub-fields:
 - LicenseUrl
 - » Linkage
 - » Protocol
 - » ApplicationProfile
 - » Name
 - » Description
 - » Function
 - » MimeType
 - LicenseText
 - Controlled vocabulary:
 - Tiling System Identification names
 - Collection Progress
- Allow:
 - “not applicable” to be specify for Dataset_Citation/Persistent_Identifier.

IV. VALIDATION OF METADATA RECORDS

Methods for Validating IDN Metadata

- CMR Ingest API
 - CMR Ingest API Validation documentation:
<https://cmr.earthdata.nasa.gov/ingest/site/docs/ingest/api.html#validate-collection>
 - Recommended for bulk record validation against the UMM-C metadata model
- QAVIEWER API
 - Metadata Quality Assurance Tool Viewer documentation:
<https://gcmd.nasa.gov/qaviewer/help/help.html>
 - Recommended for single record validation against the DIF-10 schema

Using CMR Ingest API Validation

- Validating a metadata record

```
curl -i -X POST -H "Content-type: application/dif10+xml" --data-binary @EOP-ESA-SENTINEL_1_L1.xml https://cmr.earthdata.nasa.gov/ingest/providers/ESA/validate/collection/EOP-ESA-SENTINEL_1_L1
```

- Example of the returned validation log:

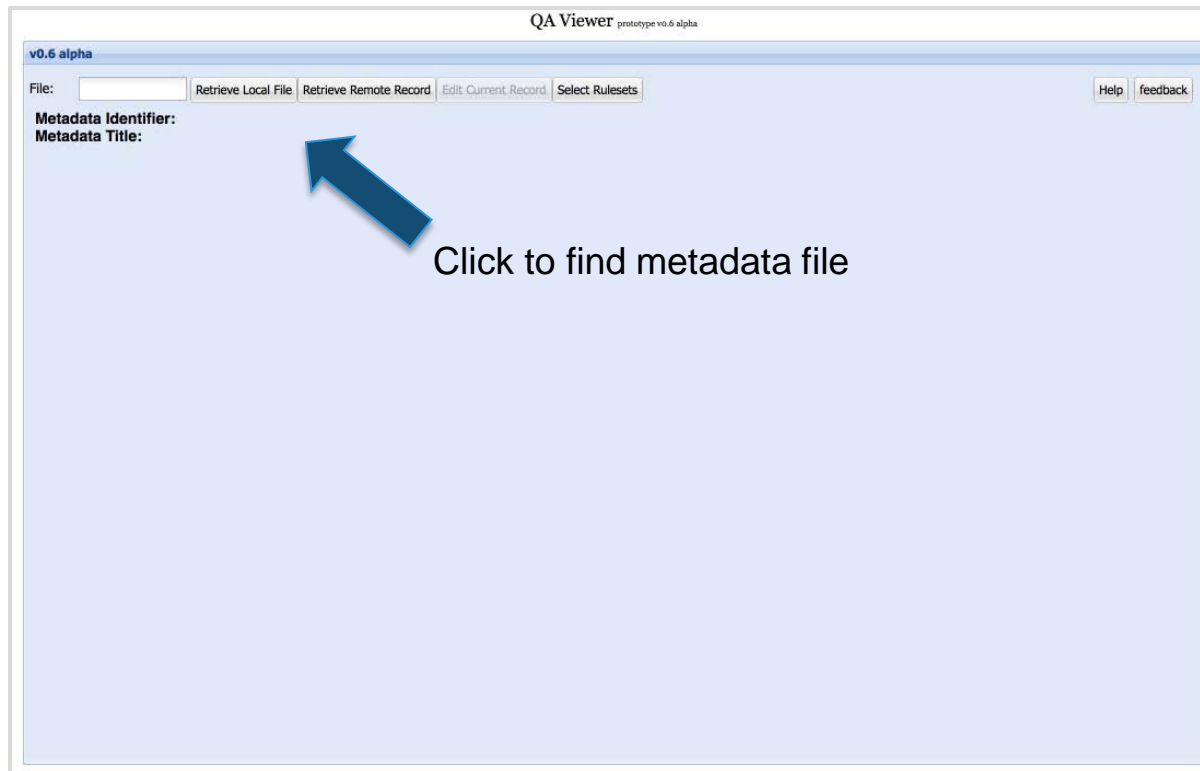
```
<?xml version="1.0" encoding="UTF-8"?><result><warnings>After translating item to UMM-C the metadata had the following issue: /AdditionalAttributes/ object has missing required properties (["Description"])</warnings></result>
```

- The errors and warnings are returned with the UMM-C field names.
 - UMM-C documentation:
<https://wiki.earthdata.nasa.gov/display/CMR/CMR+Documents>

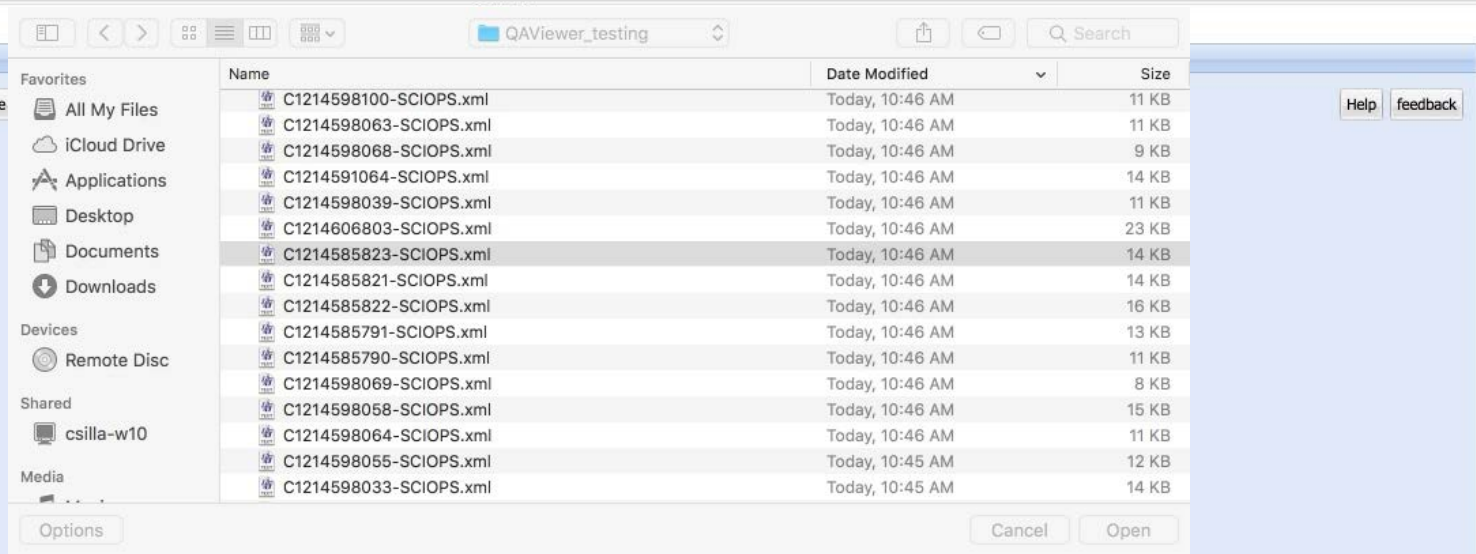
Using QAViewer API for Validation

- QAViewer link:

<https://gcmd.nasa.gov/qaviewer/QAViewer.html>



Using QAViewer API for Validation



Select metadata file
from your local files

Using QAVIEWER API for Validation

QA Viewer v2.2.0

v2.2

File: Retrieve Local File Retrieve Remote Record Edit Current Record Select Rulesets

Help feedback

Metadata Identifier: INPE_ER_SAR_
Metadata Title: ERS SAR Data held by the National Institute for Space Research (INPE), Brazil

▶ Click to view 3 XML parser errors...

dif_10.2-ummc_compliance_V1.0 - Ruleset

UMMC compliance rule set for DIF 10.2 V1.0

Expand All Collapse All

Download Result in CSV

Download Rule Set

Select Result Type to Filter On

Passed: 136 Failed: 5 Warnings: 0 Info: 0

| Name | Res | |
|--------------------------|------|--|
| ▲ DIF | FAIL | |
| ▲ Entry_ID | FAIL | |
| R Required Field Check | FAIL | /DIF/Entry_ID/Version - Version is required for UMM-C compliance. Please add the required field |
| ▲ Organization | FAIL | |
| ▲ Organization_Name | FAIL | Organization_Name: Short_Name: INPE |
| R Controlled Keyword Che | FAIL | INPE is not a valid Organization_Name. |
| R Required Field Check | FAIL | /DIF/Platform/Short_Name - Short_Name is required for UMM-C compliance. Please add the required field |
| R Required Field Check | FAIL | /DIF/Platform/Instrument/Short_Name - Short_Name is required for UMM-C compliance. Please add the required field |
| R Required Field Check | FAIL | /DIF/Project/Short_Name - Short_Name is required for UMM-C compliance. Please add the required field |



The API displays metadata record's errors and warning.

V. DOCBUILDER FOR SUBMITTING IDN METADATA

docBUILDER for a New DIF-10

International Directory Network (IDN)

docBUILDER Help guide
DIF Writer's guide

Select Record View All Fields Edit Field Submit to CMR

Click button

Insert collection Short Name (Entry_ID) and Version

Create a new record
or
 Modify an existing record

CONTINUE >>

Please enter Record Entry ID: (What is an [Entry ID](#)?)

Short Name:
Version:

If you would like to use an existing template, Please select a template from the menu below:

No template ▾ [What is a template?](#)

docBUILDER to update a DIF-10

International Directory Network (IDN)

[docBUILDER Help guide](#)
[DIF Writer's guide](#)

Select Record View All Fields Edit Field Submit to CMR

Create a new record
or
 Modify an existing record

Choose one of the options

Click button

Upload record from desktop
Choose File No file chosen
Upload File

Update existing record from CMR
Please enter Record Entry ID:

Edit unsubmitted record
Please enter Record Entry ID:

Insert collection Short Name (Entry_ID)

CONTINUE »

DIF-10 docBUILDER Field Layout

**International Directory
Network (IDN)**

[docBUILDER Help guide](#)

[DIF Writer's guide](#)

The metadata authoring page allows you to select fields to create or modify your DIF-10 record and submit your record to the CMR. Your metadata record will be validated as you complete the field as indicated by the check box next to the field.

Select Record View All Fields Edit Field Submit to CMR

Entry ID (DIF-10): [INPE_CBERS4_AWFL_1](#) (0 granules)

Provider ID: [SCIOPS](#)

| | Required fields (10 of 12 pass) | Highly Recommended fields (8 of 10 pass) | Recommended fields (3 of 13 pass) |
|---|--|--|--|
| <p>Record</p> <p>Generate Error Report</p> <p>Generate Broken Link Report</p> <p>Download Record</p> <p>Save as template</p> <hr/> <p>About docBUILDER</p> <p>Contact Us</p> | <input checked="" type="checkbox"/> Entry ID ⓘ <input checked="" type="checkbox"/> Entry Title ⓘ <input checked="" type="checkbox"/> Science Keywords ⓘ <input checked="" type="checkbox"/> ISO Topic Category ⓘ <input checked="" type="checkbox"/> Organization ⓘ <input checked="" type="checkbox"/> Summary ⓘ <input checked="" type="checkbox"/> Related URL ⓘ <input checked="" type="checkbox"/> Platform/Instrument ⓘ <input checked="" type="checkbox"/> Temporal Coverage ⓘ <input checked="" type="checkbox"/> Spatial Coverage ⓘ <input checked="" type="checkbox"/> Project ⓘ <input checked="" type="checkbox"/> Metadata Dates ⓘ | <input checked="" type="checkbox"/> Dataset Citation ⓘ <input checked="" type="checkbox"/> Personnel ⓘ <input checked="" type="checkbox"/> Location ⓘ <input checked="" type="checkbox"/> Data Resolution ⓘ <input type="checkbox"/> Quality ⓘ <input checked="" type="checkbox"/> Access Constraints ⓘ <input checked="" type="checkbox"/> Use Constraints ⓘ <input checked="" type="checkbox"/> Distribution Information ⓘ <input checked="" type="checkbox"/> Dataset Progress ⓘ <input type="checkbox"/> Dataset Language ⓘ | <input checked="" type="checkbox"/> Originating Center ⓘ <input type="checkbox"/> Multimedia Sample ⓘ <input type="checkbox"/> Metadata Association ⓘ <input type="checkbox"/> IDN Node ⓘ <input type="checkbox"/> DIF Revision History ⓘ <input type="checkbox"/> Version Description ⓘ <input type="checkbox"/> Additional Attributes ⓘ <input type="checkbox"/> Product Level Id ⓘ <input type="checkbox"/> Collection Data Type ⓘ <input checked="" type="checkbox"/> Extended Metadata ⓘ <input checked="" type="checkbox"/> Ancillary Keyword ⓘ <input type="checkbox"/> Publication/Reference ⓘ <input type="checkbox"/> Privacy Status ⓘ |

Legend: ⓘ = Description of field ○ = Field not validated ✓ = Passes Validation ◐ = Partially Passes Validation
 ✗ = Fails Validation

Note: This document is automatically saved and can be retrieved up to 90 days using the DIF10 ID (Document Identifier) "[INPE_CBERS4_AWFL_1](#)". Please complete the document and submit it for publication within that period.

[View XML editor](#)

DIF-10 docBUILDER Field view

Select Record View All Fields **Edit Field** Submit to CMR

Previous Field Next Field

Save this field now Reset this field Cancel/Back Undo Last Change Show All Sub-Fields

Organization

Indicate the organization(s) or institution(s) responsible for distributing the data. ⓘ

Legend:
Click to add another (new) field Click to remove this field Required field Failed validation

Lookup... Organization Type DISTRIBUTOR Describes the Type of the Organization

Organization Name

Short Name BR/INPE/DGI Choose From Lookup
Long Name Image Generation Division, National Institute Choose From Lookup

Hours Of Service Hours of service for the organization
Instructions Instructions for contacting the organization
Organization URL http://www.dgi.inpe.br Choose From Lookup
Dataset ID Id of the dataset

Personnel

Include contact information for either a Contact_Person or Contact_Group. ⓘ

Role DATA CENTER CONTACT

Contact Person

Contact Group

Name INPE/CBERS IMAGE CATALOG SUPPORT

Address

Street Address Rod. Pres. Dutra, km 40
City Cachoeira Paulista
State Province SP
Postal Code 12630-000
Country Brazil

Phone

Number +55 (12) 3186-9226
Type Telephone

Email atus@inpe.br

DIF-10 docBUILDER QAViewer

International Directory Network (IDN) [docBUILDER Help guide](#) [DIF Writer's guide](#)

The metadata authoring page allows you to select fields to create. You complete the field as indicated by the check box next to the field name.

Select Record View

Entry ID (DIF-10): INPE_CBERS4_AWFI_1 (0 granules)

Record

- Generate Error Report
- Generate Broken Link Report
- Download Record
- Save as template
- About docBUILDER
- Contact Us

Required fields (10 of 12 passed)

- Entry ID
- Entry Title
- Science Keywords
- ISO Topic Category
- Organization
- Summary
- Related URL
- Platform/Instrument
- Temporal Coverage
- Spatial Coverage
- Project
- Metadata Dates

Legend: = Description of field = Fails Validation

Note: This document is automatically generated by docBUILDER. You must complete the document and submit it to the DIF-10 network.

[View XML editor](#)

v2.2

File: [Retrieve Local File](#) [Retrieve Remote Record](#) [Edit Current Record](#) [Select Rulesets](#) [Help](#) [feedback](#)

Metadata Identifier: INPE_CBERS4_AWFI_1
Metadata Title: AWFI - Wide Field Imaging Camera (CBERS 4) Imagery

Click to view 2 XML parser errors...

dif_10.2-ummc_compliance_V1.0 - Ruleset

UMMC compliance rule set for DIF 10.2 V1.0 [Expand All](#) [Collapse All](#) [Download Result in CSV](#) [Download Rule Set](#)

Select Result Type to Filter On
 Passed: 102 Failed: 3 Warnings: 0 Info: 0

| Name | Res | |
|------------------------|------|--|
| 📁 DIF | FAIL | |
| 🔍 Required Field Check | FAIL | /DIF/Science_Keywords - Science_Keywords is required for UMM-C compliance. Please add the required field |
| 🔍 Required Field Check | FAIL | /DIF/Platform/Short_Name - Short_Name is required for UMM-C compliance. Please add the required field |
| 🔍 Required Field Check | FAIL | /DIF/Platform/Instrument/Short_Name - Short_Name is required for UMM-C compliance. Please add the required field |

VI. MAPPING WGCLIMATE ESSENTIAL CLIMATE VARIABLE (ECV) INVENTORY TO IDN RECORDS

WGClimate ECV Inventory

ECV Inventory Data & Download

Search: Show: 10

| ID | Domain | ECV | Product | Physical Quantity | Status | Org | From | To |
|-------|------------|----------------------------------|----------------------------------|--|---------|--------------|------------|------------|
| 11536 | Atmosphere | Earth Radiation Budget | Total Solar Irradiance | Total Solar Irradiance | Current | NOAA NCEI | 2003-03-01 | 2016-12-31 |
| 10106 | Atmosphere | Surface Wind Speed and Direction | Surface Wind Speed and Direction | Wind speed over ocean surface (horizontal) | Current | NASA | 1987-07-01 | 2016-12-31 |
| 11534 | Atmosphere | Earth Radiation Budget | Solar Spectral Irradiance | Solar Spectral Irradiance | Current | NOAA NCEI | 2003-03-01 | 2016-12-31 |
| 11533 | Atmosphere | Earth Radiation Budget | Solar Spectral Irradiance | Solar Spectral Irradiance | Current | NOAA NCEI | 2003-03-01 | 2016-12-31 |
| 11532 | Atmosphere | Water Vapour | Total Column Water Vapour | Total Column Water Vapour | Current | NASA | 1987-07-01 | 2016-12-31 |
| 11531 | Atmosphere | Water Vapour | Total Column Water Vapour | Total Column Water Vapour | Current | NASA | 1987-07-01 | 2016-12-31 |
| 11530 | Atmosphere | Water Vapour | Total Column Water Vapour | Total Column Water Vapour | Current | NASA | 1987-07-01 | 2016-12-31 |
| 11529 | Atmosphere | Precipitation | Precipitation | Liquid precipitation | Current | NASA | 1987-07-01 | 2016-12-31 |
| 11528 | Atmosphere | Precipitation | Precipitation | Liquid precipitation | Current | NASA | 1987-07-01 | 2016-12-31 |
| 11527 | Atmosphere | Precipitation | Precipitation | Liquid precipitation | Current | NASA | 1987-07-01 | 2016-12-31 |

Pages: 1 2 3 ... 92 > showing 1 to 10 of 913 records

Click on the records to view the record details.
The table takes into account any active selections from above.

download [all data](#) or [your selection](#) as

WGClimate | CEOS | CGMS
©2018 - WGClimate

<http://climatemonitoring.info/ecvinventory>

Mapping ECV Inventory to IDN records

- Goal: Identify the ECV records within the IDN.
 - The ECV Inventory spreadsheet has 3 columns to help identify IDN records:
 - Data record name and version
 - Data record identifier
 - Data documentation (link)
 - The IDN added 3 columns to the inventory:
 - Provide IDN/FedEO Entry Link
 - Identify record as CWIC, FedEO, or Not connected
 - Distinguish, if the IDN records are "Linked from Collection to Granules"

Preliminary Report

| | Total ECV Entries (out of 913) | In the IDN and Granule/Product accessible via CWIC infrastructure. | In the IDN has granule/product accessible via CNES infrastructure. | ECVs Not in the IDN |
|---|--|---|---|----------------------------|
| ECVs considered for mapping (Current records) | 496 | 288 | 4 | 204 |
| ECVs Not considered for mapping (Future records) | 417 | NA | NA | NA |

What has been done?

- Mapped NASA, NOAA, and some CNES and EUMETSAT ECV records to IDN records.
- WGISS Chair Mirko Albani has requested WGClimate members to start adding the missing ECV collection records to the IDN.

Questions?

Please Provide feedback to:

gsfc-gcmduso@mail.nasa.gov

Or

Michael.P.Morahan@nasa.gov

This work was supported by
NASA/GSFC under Raytheon Co.
contract number NNG15HZ39C

Raytheon