

Purpose

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Element Description

The Purpose element contains suggested usage for the data and/or a description for why the resource exists. Any limitations on the resource (including, but not limited to, special restrictions, legal prerequisites, and terms and conditions) should be placed into the [Use Constraints](#) element and not into the Purpose element.

Best Practices

The Purpose element is optional. It can be leveraged to communicate to a user the broad applications the data is designed to be used for, and/or why the data were generated.

Examples:

"To assess species composition, abundance, distribution and biomass of zooplankton within the Bering and Chukchi Seas, 1985-1989."

"To provide VIIRS 375m resolution active fire locations in Near Real-Time in easy to use formats."

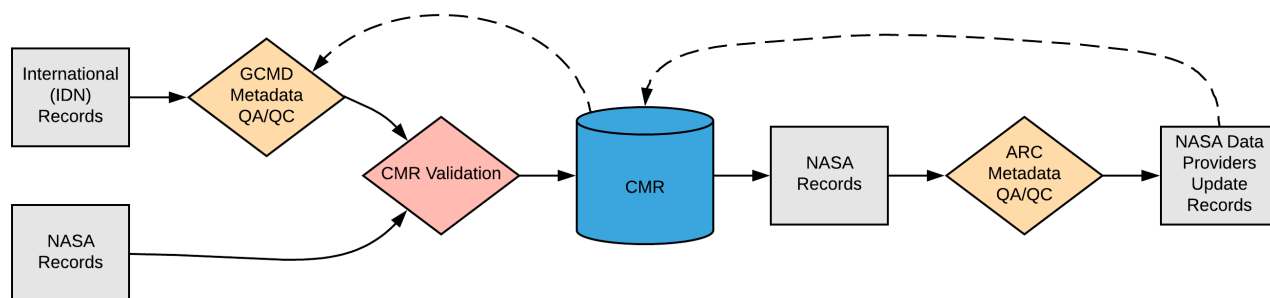
"To serve a wide user community by providing composite Landsat images and raw data for urban areas that can be used in interdisciplinary studies of remote sensing and the environment."

Element Specification

Model	Element	Type	Constraints	Required?	Cardinality
UMM-C	Purpose	String	1 - 10000 characters	No	0..1

Metadata Validation and QA/QC

All metadata entering the CMR goes through the below process to ensure metadata quality requirements are met. All records undergo CMR validation before entering the system. The process of QA/QC is slightly different for NASA and non-NASA data providers. Non-NASA providers include interagency and international data providers and are referred to as the International Directory Network (IDN).



Please see the expandable sections below for flowchart details.

- Manual Review
 - Check that the purpose description is appropriate for the dataset.

- Automated Review
 - Check that the field has been populated.
 - Check that the field length is not greater than 1000 characters.
- If this element is used, it must contain at least 1 character and be no longer than 10000 characters in length

ARC Priority Matrix

Priority Categorization	Justification
Red = High Priority Finding	This element is categorized as highest priority when: <ul style="list-style-type: none"> • The Purpose contains spelling or grammatical errors. • The Purpose is incorrect for the data (for example, a copy and paste error could result in the purpose for a different dataset to appear in this field). • A broken URL is provided in the Purpose element.
Yellow = Medium Priority Finding	This element is categorized as medium priority when: <ul style="list-style-type: none"> • The information provided in the Purpose element is better suited for a different metadata field (i.e. incorrect usage of the Purpose field).
Blue = Low Priority Finding	This element is categorized as low priority when: <ul style="list-style-type: none"> • A link provided in the Purpose element needs to be updated from 'http' to 'https'.
Green = No Findings /Issues	The element is provided and follows all applicable criteria specified in the best practices section above.

ARC Automated Checks

ARC uses the [pyQuARC library](#) for automated metadata checks. Please see the [pyQuARC GitHub](#) for more information.

Dialect Mappings

DIF 9 (Note: DIF-9 is being phased out and will no longer be supported after 2018)

DIF 10

Purpose is an optional element. Purpose can only be provided once (Cardinality: 0..1)

UMM-C Element	DIF 10 Path	Type	Constraints	Required in DIF 10?	Cardinality
Purpose	Summary/Purpose	String	1 - 10000 characters	No	0..1

Example Mapping

DIF 10

```
<Summary>
  <Purpose>To test the feasibility of creating a
  comparative index of national-level environmental
  sustainability.</Purpose>
</Summary>
```

UMM

```
"Purpose": "To test the feasibility of creating a
comparative index of national-level environmental
sustainability."
```

ECHO 10

Suggested Usage is an optional element. Suggested Usage can only be provided once (Cardinality: 0..1)

UMM-C Element	ECHO 10 Path	Type	Constraints	Required in ECHO10?	Cardinality	Notes
Purpose	SuggestedUsage	String	1 - 4000 characters	No	0..1	The ECHO 10 schema definition for Suggested Usage: "This attribute describes how this collection or granule may be best used to support Earth science/global change research."

Example Mapping

ECHO 10

```
<SuggestedUsage>To serve a wide user community by
providing composite Landsat images and raw data for
urban areas that can be used in interdisciplinary
studies of remote sensing and the environment.<
/SuggestedUsage>
```

UMM

```
"Purpose": "To serve a wide user community by
providing composite Landsat images and raw data for
urban areas that can be used in interdisciplinary
studies of remote sensing and the environment."
```

ISO 19115-2 MENDS

Purpose is an optional element. Purpose can only be provided once in CMR (Cardinality: 0..1)

UMM-C Element	ISO 19115-2 MENDS Path	Type	Notes
Purpose	/gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:purpose/gco:CharacterString	String	

Example Mapping

ISO 19115-2 MENDS

```
<gmi:MI_Metadata>
...
  <gmd:identificationInfo>
    <gmd:MD_DataIdentification>
      ...
      <gmd:purpose>
        <gco:CharacterString>To provide VIIRS 375m
resolution active fire locations in Near Real-Time
in easy to use formats.</gco:CharacterString>
      </gmd:purpose>
      ...
    </gmd:MD_DataIdentification>
  </gmd:identificationInfo>
  ...
</gmi:MI_Metadata>
```

UMM

```
"Purpose": "To provide VIIRS 375m resolution active
fire locations in Near Real-Time in easy to use
formats."
```

ISO 19115-2 SMAP

Purpose is an optional element. Purpose can only be provided once in CMR (Cardinality: 0..1)

UMM-C Element	ISO 19115-2 SMAP Path	Type	Notes
Purpose	/gmd:DS_Series/gmd:seriesMetadata/gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:purpose /gco:CharacterString	String	

Example Mapping

ISO 19115-2 SMAP

```

<gmd:DS_Series>
  <gmd:seriesMetadata>
    <gmi:MI_Metadata>
      ...
      <gmd:identificationInfo>
        <gmd:MD_DataIdentification>
          ...
          <gmd:purpose>
            <gco:CharacterString>To provide VIIRS
375m resolution active fire locations in Near Real-
Time in easy to use formats.</gco:CharacterString>
          </gmd:purpose>
          ...
        </gmd:MD_DataIdentification>
      </gmd:identificationInfo>
      ...
    </gmi:MI_Metadata>
  </gmd:seriesMetadata>
</gmd:DS_Series>

```

UMM

```

"Purpose": "To provide VIIRS 375m resolution active
fire locations in Near Real-Time in easy to use
formats."

```

UMM Migration

None

History

UMM Versioning

Version	Date	What Changed
1.15.5	12/3/2020	No changes were made for Purpose during the transition from version 1.15.4 to 1.15.5
1.15.4	9/18/2020	No changes were made for Purpose during the transition from version 1.15.3 to 1.15.4
1.15.3	7/1/2020	No changes were made for Purpose during the transition from version 1.15.2 to 1.15.3
1.15.2	5/20/2020	No changes were made for Purpose during the transition from version 1.15.1 to 1.15.2
1.15.1	3/25/2020	No changes were made for Purpose during the transition from version 1.15.0 to 1.15.1
1.15.0	2/26/2020	No changes were made for Purpose during the transition from version 1.14.0 to 1.15.0
1.14.0	10/21/2019	No changes were made for Purpose during the transition from version 1.13.0 to 1.14.0
1.13.0	04/11/2019	No changes were made for Purpose during the transition from version 1.12.0 to 1.13.0
1.12.0	01/22/2019	No changes were made for Purpose during the transition from version 1.11.0 to 1.12.0.
1.11.0	11/28/2018	No changes were made for Purpose during the transition from version 1.10.0 to 1.11.0.
1.10.0	05/02/2018	No changes were made for Purpose during the transition from version 1.9.0 to 1.10.0.

ARC Documentation

Version	Date	What Changed	Author
1.0	10/05/2018	Recommendations/priority matrix transferred from internal ARC documentation to wiki space	Jeanne' le Roux