

Granule UR

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Element Description

The Granule UR element provides the universal reference identifier of the granule, which is assigned by the data provider. The Id should be unique per data provider.

Best Practices

Typically, the Granule UR will match the granule's file name. However, other identifying information may be included. The UR must be completely unique when compared to all other data from the same provider (i.e. datasets with the same provider Id in CMR).

Examples:

Granule UR: AIRS2CCF_NRT.006:AIRS.2018.10.18.189.L2.CC_IR.v6.0.31.0.R18291162512.hdf

Granule UR: MA_AMSUA_NOAA17_OMF.001:merra.mon_stdv3d_amsua_noaa17_omf.200212_06z.nc

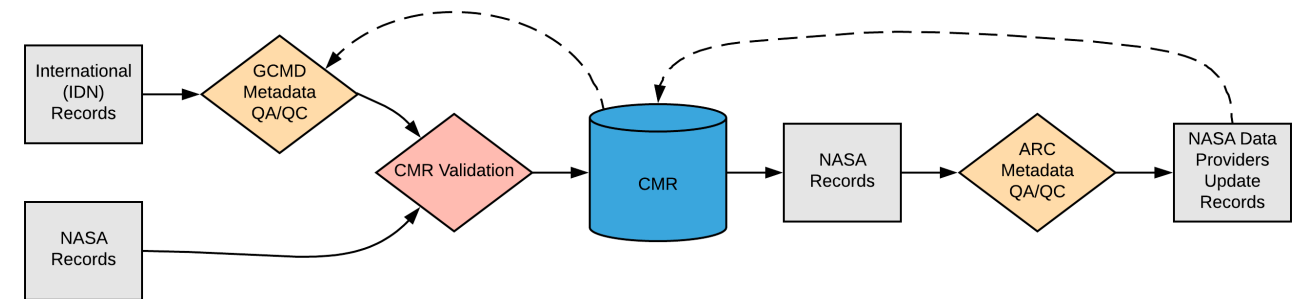
Element Specification

The Granule UR is required (Cardinality: 1)

Model	Element	Type	Constraints	Required?	Cardinality
UMM-G	GranuleUR	String	1 - 250 characters	Yes	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.

ARC Priority Matrix

Priority Categorization	Justification
Red = High Priority Finding	This element is categorized as highest priority when: - No Granule UR is provided. - The Granule UR is incorrect for the granule.
Yellow = Medium Priority Finding	Not Applicable
Blue = Low Priority Finding	Not Applicable
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

ECHO 10

Granule UR is required for ECHO 10.

UMM-G Element	ECHO 10 Path	Type	Constraints	Required in ECHO10?	Cardinality
GranuleUR	GranuleUR	String	n/a	Yes	1

Example Mapping

ECHO 10

```
<GranuleUR>MA_AMSUA_NOAA17_OMF.001:merra.  
mon_stdv3d_amsua_noaa17_omf.200212_06z.nc</GranuleUR>
```

UMM

```
"GranuleUR": "AIRS2CCF_NRT.006:AIRS.2018.10.18.189.  
L2.CC_IR.v6.0.31.0.R18291162512.hdf"
```

ISO 19115-2 MENDS

The path where Granule UR is provided in ISO is optional, however, a Granule UR is required for all granule metadata submitted to the CMR (Cardinality: 0..1).

UMM-G Element	ISO Path	Type	Notes
GranuleUR	/gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:citation/gmd:CI_Citation/gmd:identifier/gmd:MD_Identifier/ [=> [=>gmd:code/gco:CharacterString {the actual Granule UR} [=>gmd:codeSpace/gco:CharacterString= gov.nasa.esdis.umm.granuleur [=>gmd:description/gco:CharacterString = GranuleUR	String	Provide the GranuleUR in the gmd:code field. Provide the string "gov.nasa.esdis.umm.granuleur" in the gmd:codeSpace field. The CMR will use this string to parse out the appropriate GranuleUR value. Also provide the string "GranuleUR" in the gmd:description field. The CMR will use this string to parse out the appropriate GranuleUR value.

Example Mapping

ISO 19115-2 MENDS

```

<gmi:MI_Metadata>
  <gmd:identificationInfo>
    <gmd:MD_DataIdentification>
      <gmd:citation>
        <gmd:CI_Citation>
          <gmd:identifier>
            <gmd:MD_Identifier>
              <gmd:code>
                <gco:CharacterString>AIRS2CCF_NRT.
006:AIRS.2018.10.18.189.L2.CC_IR.v6.0.31.0.
R18291162512.hdf</gco:CharacterString>
              </gmd:code>
              <gmd:codeSpace>
                <gco:CharacterString>gov.nasa.esdis.
umm.granuleur</gco:CharacterString>
              </gmd:codeSpace>
              <gmd:description>
                <gco:CharacterString>GranuleUR</gco:
CharacterString>
              </gmd:description>
            </gmd:MD_Identifier>
          </gmd:identifier>
        </gmd:CI_Citation>
      </gmd:citation>
    </gmd:MD_DataIdentification>
  </gmd:identificationInfo>
</gmi:MI_Metadata>

```

UMM

```

{
  "GranuleUR": "AIRS2CCF_NRT.006:AIRS.2018.10.18.189.
L2.CC_IR.v6.0.31.0.R18291162512.hdf",
}

```

ISO 19115-2 SMAP

The path where Granule UR is provided in ISO is optional, however, a Granule UR is required for all granule metadata submitted to the CMR (Cardinality: 0..1).

UMM-G Element	ISO Path	Type	Notes
GranuleUR	/gmd:DS_Series/gmd:composedOf/gmd:DS_DataSet/gmd:has/gmi:MI_Metadata /gmd:identificationInfo/gmd:MD_DataIdentification/ gmd:citation/gmd:CI_Citation /gmd:title/gco:CharacterString {the actual Granule UR} with /gmd:DS_Series/gmd:composedOf/gmd:DS_DataSet/gmd:has/gmi:MI_Metadata /gmd:identificationInfo/gmd:MD_DataIdentification/ gmd:purpose/gco: CharacterString = GranuleUR	String	Provide the GranuleUR in the gmd:code field. Provide the string " gov.nasa.esdis.umm.granuleur " in the gmd:codeSpace field. The CMR will use this string to parse out the appropriate GranuleUR value. Also provide the string "GranuleUR" in the gmd:description field. The CMR will use this string to parse out the appropriate GranuleUR value.

Example Mapping

ISO 19115-2 SMAP

```

<gmd:DS_Series>
  <gmd:composedOf>
    <gmd:DS_DataSet>
      <gmd:has>
        <gmi:MI_Metadata>
          <gmd:identificationInfo>
            <gmd:MD_DataIdentification>
              <gmd:purpose>
                <gco:CharacterString>GranuleUR</gco:
CharacterString>
              </gmd:purpose>
              <gmd:citation>
                <gmd:CI_Citation>
                  <gmd:title>
                    <gco:
CharacterString>AIRS2CCF_NRT.006:AIRS.2018.10.18.189.
L2.CC_IR.v6.0.31.0.R18291162512.hdf</gco:
CharacterString>
                  </gmd:title>
                </gmd:CI_Citation>
              </gmd:citation>
            </gmd:MD_DataIdentification>
          </gmd:identificationInfo>
        </gmi:MI_Metadata>
      </gmd:has>
    </gmd:DS_DataSet>
  </gmd:composedOf>
</gmd:DS_Series>

```

UMM

```

"GranuleUR": "AIRS2CCF_NRT.006:AIRS.2018.10.18.189.
L2.CC_IR.v6.0.31.0.R18291162512.hdf"

```

UMM Migration

N/A

History

UMM Versioning

Version	Date	What Changed
1.6.0	11/4/2019	No changes were made for Granule UR during the transition from version 1.5.0 to 1.6.0.
1.5.0	01/30/2019	No changes were made for Granule UR during the transition from version 1.4.0 to 1.5.0.
1.4.0	08/01/2018	No changes were made for Granule UR during the transition from version 1.3.0 to 1.4.0.

ARC Documentation

Version	Date	What Changed	Author
1.0	02/15/2019	Recommendations/priority matrix transferred from internal ARC documentation to wiki space	Camille Woods Jeanne' le Roux