



Metaserver

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Metaserver User Manual

Production Version 1.8.0

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Contact Information

Questions or feedback regarding this manual should be directed to the OneStop Metadata Content Team (lori.hager@noaa.gov, catherine.luquire@noaa.gov, paul.lemieux@noaa.gov)

If you encounter issues or need to report a bug in Docucomp, please email ncei.collection-manager.support@noaa.gov. In the email, describe the issue or bug and steps required to replicate it. Additionally, provide your name and contact information if you wish to be contacted for issue clarification and/or to receive updates on the status of the issue.

Acknowledgements

Special thanks to Marty Aubrey, Charlie Burris, and Jerri Reeves for their technical input

Overview

Metaserver provides CoMET services without creating a metadata record, resolves xlinks, translates between different XML standards, and allows advanced users to process WAFs on demand

Helpful quickfacts

1. ISO 19139 XML is the implementation of ISO 19115-2 XML
2. If a user updates an in-use XML Component in [Docucomp](#), user must republish records in [CoMET](#) OR run a WAF on demand in [Metaserver](#)
3. Enterprise Metadata Tools [wiki page](#) details Record Services and Collection Services available within Metaserver

Getting Started

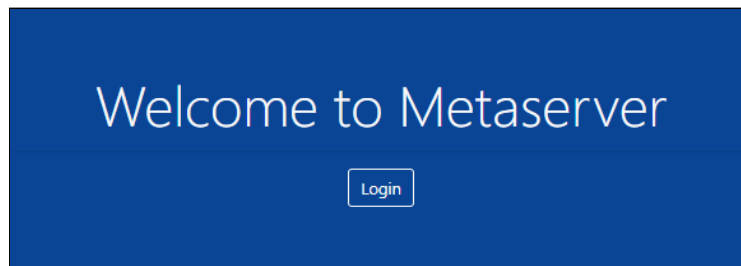
New Users

Note: If a NOAA employee, manager must request access

- Email: ncei.collection-manager.support@noaa.gov
- Subject:
 - New User for Metaserver for *employee name*
- Body:
 - Employee's Contact information
 - Associated program or agency
 - Intended usage

Log In

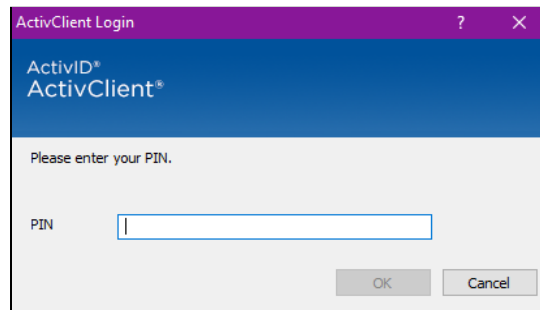
- Access Metaserver at <https://data.noaa.gov/metaserver/>
- Select 'Login'



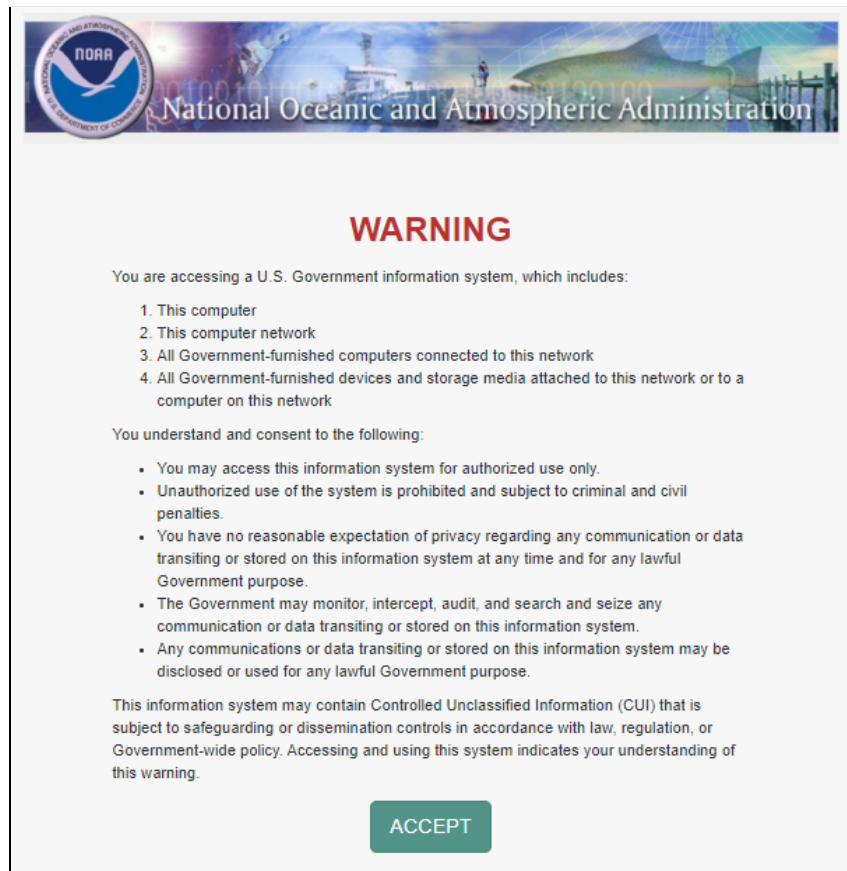
- Enter Username (email address without @noaa.gov) and email password OR click 'NOAA ICAM SSO' button

The login page for the NOAA Metaserver. At the top is the NOAA logo and the text "National Centers for Environmental Information". Below this is a "Login" section with a lock icon. The main section is titled "NOAA Username and Password" and contains fields for "Username:" and "Password:". Below these fields is a green "LOGIN" button. To the right of the login fields is a red button labeled "Or login with:" and "NOAA ICAM SSO". Below the login fields is a link for "Forgot your password?". At the bottom of the login section is a security warning: "For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!". To the right of the login section is a "WARNING!" box with text about the system being a United States Department of Commerce computer system. At the bottom of the page is the text "ITB | NCEI Service Desk".

- ‘Select a certificate’, if prompted
 - Select same certificate used when logging into work computer
- Enter CAC PIN

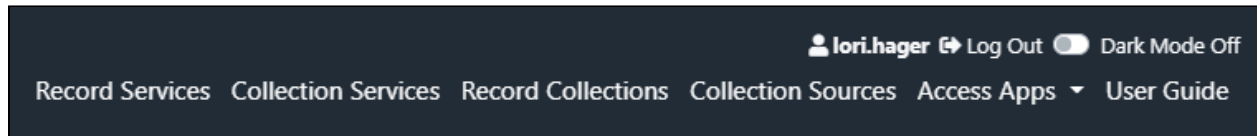


- After authentication, a Warning page is displayed
 - Click ‘Accept’ to proceed



Record Services

- On Home page click 'Record Services'



- Below 'Choose Input'
 - Either click 'File' and then 'Choose File' to upload XML file saved on computer OR click 'URL' to enter URL for remote XML file

A form titled 'Choose Input'. It has two radio buttons: 'File' (selected) and 'URL'. Next to the 'File' radio button is a 'Choose File' button and the text 'No file chosen'. Below the 'URL' radio button is an empty text input field.

Note: Every service requires a 19139 Schema-Valid XML file

Check XML format prior to using other services

- Below Choose Service
 - Click button next to 'Check XML Format'
 - Click 'Submit'

A form titled 'Choose Service'. It has two radio buttons: 'File' (selected) and 'URL'. Next to the 'File' radio button is a 'Choose File' button and the text 'SUVI Instrument Calibration Data.xml'. Below the 'URL' radio button is an empty text input field. Under the 'Choose Service' heading, there is a list of services with radio buttons and descriptions:

- ☒ Check XML Format: Check for well formed XML. Input: Any XML file.
- ☐ Resolve: Resolve URL references to components. Input: 19139 schema valid XML file
- ☐ ISO Validate: Validate metadata with 19139 Schema. Input: 19139 XML file
- ☐ Link Check (slow): Verify URLs are valid. Input: 19139 schema valid XML file
- ☐ NCEI Landing Page: Generate the NCEI Landing page view based on a valid ISO 19115-2 XML file.
- ☐ ISO To Rubric V2: Generate IMPROVED completeness assessment report. Input: 19139 schema valid XML file
- ☐ ISO To Rubric V1: Generate completeness assessment report. Input: 19139 schema valid XML file
- ☐ FGDC To ISO: Translate from CSDGM to ISO 19115-2. Input: CSDGM valid XML file
- ☐ NCML To Rubric: Generate completeness assessment report. Input: NetCDF XML
- ☐ NCML To ISO: Translate from NCML to ISO 19115-2. Input: ACDD compliant NetCDF XML

At the bottom of the form is a large green 'Submit' button.

- Message opens in new tab
 - If XML has no errors, get message 'Xml is well formed.' at top left corner of page

Xml is well formed.

Note: if XML has errors, ONLY first error will be displayed at a time

- Correct error
- Repeat Check XML Format instructions
- Correct any additional errors

RecordServices EXCEPTION...Error on line 52: Element type "attribute" must be followed by either attribute specifications, ">" or "/>".

- Close message tab and return to Record Services tab
- Select one Service from Choose Service list
 - [Resolve](#)
 - [ISO Validate](#)
 - [Link Check \(slow\)](#)
 - [ISO to Rubric V2](#)
 - [ISO to Rubric V1](#)
 - [FGDC to ISO](#)
 - [NCML to Rubric](#)
 - [NCML to ISO](#)
- Click 'Submit'

Choose Service

<input type="radio"/> Check XML Format	Check for well formed XML. Input: Any XML file.
<input checked="" type="radio"/> Resolve	Resolve URL references to components. Input: 19139 schema valid XML file
<input type="radio"/> ISO Validate	Validate metadata with 19139 Schema. Input: 19139 XML file
<input type="radio"/> Link Check (slow)	Verify URLs are valid. Input: 19139 schema valid XML file
<input type="radio"/> NCEI Landing Page	Generate the NCEI Landing page view based on a valid ISO 19115-2 XML file.
<input type="radio"/> ISO To Rubric V2	Generate IMPROVED completeness assessment report. Input: 19139 schema valid XML file
<input type="radio"/> ISO To Rubric V1	Generate completeness assessment report. Input: 19139 schema valid XML file
<input type="radio"/> FGDC To ISO	Translate from CSDGM to ISO 19115-2. Input: CSDGM valid XML file
<input type="radio"/> NCML To Rubric	Generate completeness assessment report. Input: NetCDF XML
<input type="radio"/> NCML To ISO	Translate from NCML to ISO 19115-2. Input: ACDD compliant NetCDF XML

Submit

Note: If error message received for any services, refer to '[Check XML Format](#)' instructions, e.g.

- RecordServices EXCEPTION...unable to resolve document...
- org.xml.sax.SAXParseException

Resolve

Resolve URL references to components. Input: 19139 schema valid XML file. Resolving records with Docucomp Components (Xlinks) allows users to see how the record will look published. This feature will not resolve a component with errors, so this feature is a method to allow users to check that components are correct.

- XML opens in new tab

Note: Six highlighted 'resourceConstraint' tags are populated with XML

```
<gmd:resourceConstraints>
  <gmd:MD_LegalConstraints>
    <gmd:useLimitation>
      <gco:CharacterString>otherRestrictions</gco:CharacterString>
    </gmd:useLimitation>
    <gmd:otherConstraints>
      <gco:CharacterString>Cite as: {{Author(s)}}. {{Publication year}}: {{Title}}. {{Version}}. [indicate subset used]. NOAA National Centers for Environmental Information. https://doi.org/{{DOI}}. Accessed [date].</gco:CharacterString>
    </gmd:otherConstraints>
    <gmd:otherConstraints>
      <gco:CharacterString>{{cite as guidance}}: {{Last, First M.; Last, First M.; Last, First M. YYYY. Title. Version. [indicate subset used]. Publisher. volume, page https://doi.org/DOI}}</gco:CharacterString>
    </gmd:otherConstraints>
  </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
<gmd:resourceConstraints xlink:title="Distribution Liability">
  <gmd:MD_LegalConstraints uuid="dadd4ac3-2b9f-4db5-8603-71285b94c3d7">
    <gmd:accessConstraints>
      <gmd:MD_RestrictionCode codeList="https://data.noaa.gov/resources/iso19139/schema/resources/CodeList/gmxCodeLists.xml#MD_RestrictionCode"
        codeListValue="otherRestrictions">otherRestrictions</gmd:MD_RestrictionCode>
    </gmd:accessConstraints>
    <gmd:otherConstraints>
      <gco:CharacterString>Distribution liability: NOAA and NCEI make no warranty, expressed or implied, regarding these data, nor does the fact of distribution constitute such a warranty. NOAA and NCEI cannot assume liability for any damages caused by any errors or omissions in these data. If appropriate, NCEI can only certify that the data it distributes are an authentic copy of the records that were accepted for inclusion in the NCEI archives.</gco:CharacterString>
    </gmd:otherConstraints>
  </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
<gmd:resourceConstraints xlink:title="Use Liability">
  <gmd:MD_LegalConstraints uuid="e8163b1b-fb5a-4f4e-8d5c-ed06da10e21b">
    <gmd:useConstraints>
      <gmd:MD_RestrictionCode codeList="https://data.noaa.gov/resources/iso19139/schema/resources/CodeList/gmxCodeLists.xml#MD_RestrictionCode"
        codeListValue="otherRestrictions">otherRestrictions</gmd:MD_RestrictionCode>
    </gmd:useConstraints>
    <gmd:otherConstraints>
      <gco:CharacterString>Use liability: NOAA and NCEI cannot provide any warranty as to the accuracy, reliability, or completeness of furnished data. Users assume responsibility to determine the usability of these data. The user is responsible for the results of any application of this data for other than its intended purpose.</gco:CharacterString>
    </gmd:otherConstraints>
  </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
</gmd:aggregationInfo>
```

- Same XML file, but unresolved

Note: Four highlighted 'resourceConstraint' tags are populated with Xlinks

```
<gmd:resourceConstraints>
  <gmd:MD_LegalConstraints>
    <gmd:useLimitation>
      <gco:CharacterString>otherRestrictions</gco:CharacterString>
    </gmd:useLimitation>
    <gmd:otherConstraints>
      <gco:CharacterString>Cite as: {{Author(s)}}. {{Publication year}}: {{Title}}. {{Version}}. [indicate subset used]. NOAA National Centers for Environmental Information https://doi.org/{{DOI}}. Accessed [date].</gco:CharacterString>
    </gmd:otherConstraints>
    <gmd:otherConstraints>
      <gco:CharacterString>{{cite as guidance}}: {{Last, First M.; Last, First M.; Last, First M. YYYY. Title. Version. [indicate subset used]. Publisher. volume, page https://doi.org/DOI}}</gco:CharacterString>
    </gmd:otherConstraints>
  </gmd:MD_LegalConstraints>
</gmd:resourceConstraints>
<gmd:resourceConstraints xlink:href="https://data.noaa.gov/docucomp/dadd4ac3-2b9f-4db5-8603-71285b94c3d7" xlink:title="Distribution Liability"/>
<gmd:resourceConstraints xlink:href="https://data.noaa.gov/docucomp/e8163b1b-fb5a-4f4e-8d5c-ed06da10e21b" xlink:title="Use Liability"/>
</gmd:aggregationInfo>
```


ISO Validate

Validate metadata with 19139 Schema. Input: 19139 XML file

- 19139 Schema-valid ISO

Validation Report	
Back to Index Page -.	
Invalid Records for Collection	
Date measured: Mon Apr 05 16:12:33 EDT 2021	
Metric	Value
Invalid Record count	0
Non-ISO Records Count	
No errors found :-)	

- Example: failed XML schema validation
 - Report displays all errors

Validation Report	
Back to Index Page -.	
Invalid Records for Collection	
Date measured: Wed Apr 21 11:44:07 EDT 2021	
Metric	Value
Invalid Record count	1
Non-ISO Records Count	
Invalid Record Report	
Record	Error
viewAs (1).xml	line:126 column:180 cvc-complex-type.2.4.a: Invalid content was found starting with element '{ "http://www.isotc211.org/2005/gmd":CI_ResponsibleParty}'. One of '{ "http://www.isotc211.org/2005/gmd":MD_Distribution}' is expected.

Link Check (slow)

Verify CI_OnlineResource URLs are valid. Input: 19139 schema valid XML file. This service is noted as slow as it does not run as fast as the others.

- Checks for broken [CI_OnlineResource](#) links
 - No broken links

```
Number of Unique Bad OnlineResource URLs = 0   Total URL hits = 0
```

- Broken links examples
 - Lists broken link(s) and number of times links appear within XML
 - Lists Unique Bad URLs and Total URL hits

```
https://www.google    urlcount=2
https://www.ncei.noaa.gov/maps/hypoxia/    urlcount=1
Number of Unique Bad OnlineResource URLs = 2   Total URL hits = 3
```

NCEI Landing Page

Generate the NCEI Landing page view

- Input: 19139 schema valid XML file

The screenshot shows the NOAA NCEI landing page for the dataset "GHRST ACPO Himawari 8 Advanced Himawari Imager (AHI) L3U Sea Surface Temperature from STAR". The page includes the NOAA logo, navigation links (Home, Climate Information, Data Access, Customer Support, Contact, About), and a search bar. The dataset title is "GHRST ACPO Himawari 8 Advanced Himawari Imager (AHI) L3U Sea Surface Temperature from STAR". Below the title is a thumbnail image of a sea surface temperature map and a description of the dataset. The description states: "This dataset contains a high quality level 3U sea surface temperature (SST) product from the Advanced Himawari Imager (AHI) instrument onboard the Himawari-8 satellite that is operated by the Japanese Meteorological Agency (JMA) and is produced operationally by the NOAA Environmental Satellite, Data, and Information Service (NESDIS). The algorithm retrieval utilizes AHI channel brightness temperatures and reflectances to produce SST. AHI has 16 spectral bands with spatial resolutions ranging from 0.5 or 1 km for visible and near-infrared bands, and 2 km for infrared bands. Himawari-8 provides Full Disk and regional mesoscale coverage of the Asia-Pacific region approximately every 10 and 2.5 minutes respectively." To the right of the description are links for "Dataset Citation", "Dataset Identifiers", and "ISO 19115-2 Metadata". Below the description is a "Show more..." link. At the bottom of the page, there is a table with the following rows: "Download Data" (Real-time Himawari-8 Satellite Imagery from NOAA/NESDIS (download), AWS S3 Bucket (download), Himawari-8 L3U GHRST ASCPO STT archive data are hosted in the Amazon S3 bucket.), "Distribution Formats" (NetCDF (Version: 4), File Specification:), "Distributor" (DOC/NOAA/NESDIS/STAR > Center for Satellite Applications and Research, NESDIS, NOAA, U.S. Department of Commerce), and "Dataset Point of Contact" (NOAA Big Data Project Contact, noaa.bdp@noaa.gov). The page also includes a "Last Modified" timestamp and a contact email address.

NOAA NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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Home > Catalog > Dataset Overview

GHRST ACPO Himawari 8 Advanced Himawari Imager (AHI) L3U Sea Surface Temperature from STAR

GHRST-Himawari8-AHI-L3U-SST

This dataset contains a high quality level 3U sea surface temperature (SST) product from the Advanced Himawari Imager (AHI) instrument onboard the Himawari-8 satellite that is operated by the Japanese Meteorological Agency (JMA) and is produced operationally by the NOAA Environmental Satellite, Data, and Information Service (NESDIS). The algorithm retrieval utilizes AHI channel brightness temperatures and reflectances to produce SST. AHI has 16 spectral bands with spatial resolutions ranging from 0.5 or 1 km for visible and near-infrared bands, and 2 km for infrared bands. Himawari-8 provides Full Disk and regional mesoscale coverage of the Asia-Pacific region approximately every 10 and 2.5 minutes respectively.

[Dataset Citation](#)
[Dataset Identifiers](#)
[ISO 19115-2 Metadata](#)

[Show more...](#)

Example of the Sea Surface Temperature (SST) product as generated by the Himawari-8 SST algorithm.

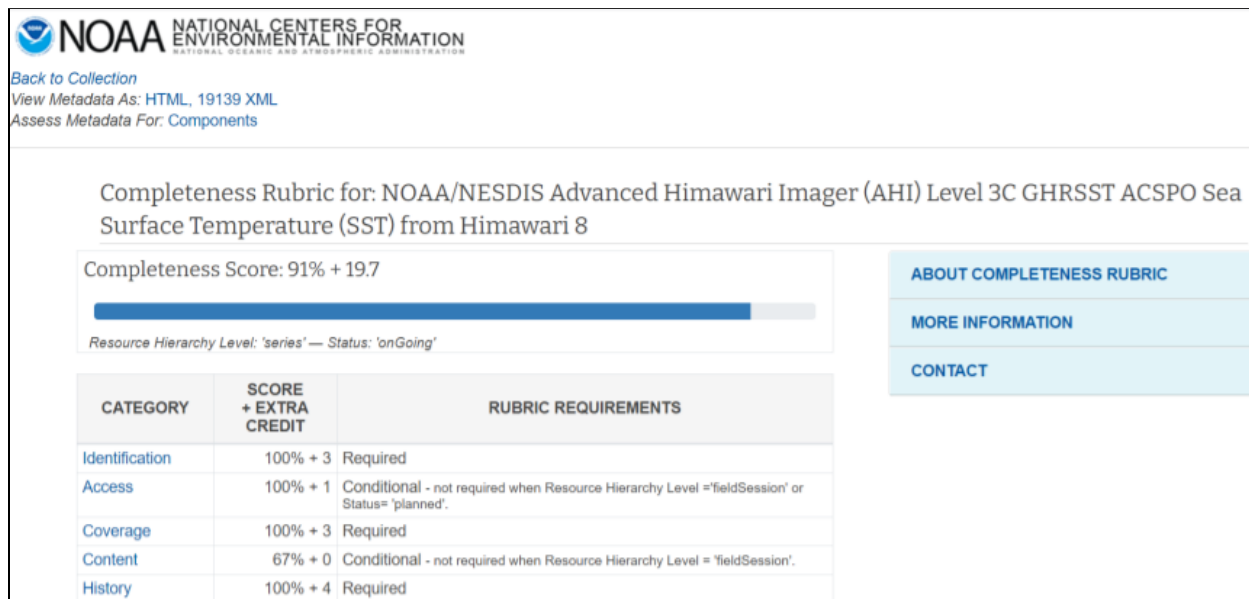
Access	Time & Location	Documentation	Description	Credit	Keywords	Constraints	Lineage
Download Data			Real-time Himawari-8 Satellite Imagery from NOAA/NESDIS (download) AWS S3 Bucket (download) Himawari-8 L3U GHRST ASCPO STT archive data are hosted in the Amazon S3 bucket.				
Distribution Formats			• NetCDF (Version: 4) ◦ File Specification:				
Distributor			DOC/NOAA/NESDIS/STAR > Center for Satellite Applications and Research, NESDIS, NOAA, U.S. Department of Commerce				
Dataset Point of Contact			NOAA Big Data Project Contact noaa.bdp@noaa.gov				

Last Modified: 2021-04-12T13:47:17
For questions about the information on this page, please email: amanda.dean@noaa.gov

ISO to Rubric V2

Generate [V2 completeness assessment report](#)

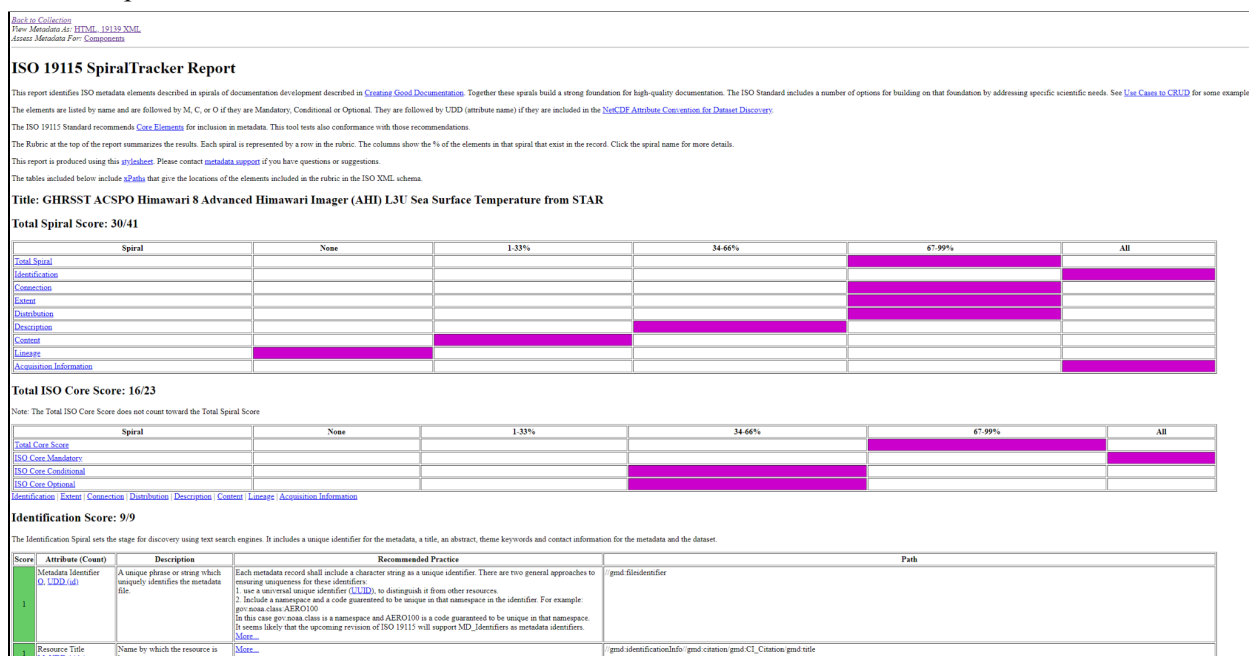
- Input: 19139 schema valid XML file



ISO to Rubric V1

Generate a V1 completeness assessment report

- Input: 19139 schema valid XML file



FGDC to ISO

Non-functional

NCML to Rubric

Generate a completeness assessment report

- Input: NetCDF XML

NetCDF Attribute Convention for Dataset Discovery Report

The Udata Attribute Convention for Data Discovery provides recommendations for netCDF attributes that can be added to netCDF files to facilitate discovery of those files using standard metadata searches. This tool tests conformance with those recommendations using this [guideline](#). [More Information on Convention and Tool](#)

Title: AF EDR

Total Score: 22/46

General File Characteristics

Number of Global Attributes: 39
Number of Variables: 0
Number of Variable Attributes: 0
Number of Standard Names: 0
Number of Services: 0

	Spiral	None	1-33%	34-66%	67-99%	All
Total						
Identification				X		X
Text Search				X		
Text Search			X			
Other Extent Information		X				
Contributor Search					X	
Publisher Search		X				X
Other Attributes				X		

[Identification](#) [Text Search](#) [Extent Search](#) [Other Extent Information](#) [Contributor Search](#) [Publisher Search](#) [Other Attributes](#)

Identification / Metadata Reference Score: 4/4

As metadata are shared between national and international repositories it is becoming increasingly important to be able to unambiguously identify and refer to specific records. This is facilitated by including an identifier in the metadata. Some mechanism must exist for ensuring that these identifiers are unique. This is accomplished by specifying the naming authority or namespace for the identifier. It is the responsibility of the manager of the namespace to ensure that the identifiers in that namespace are unique. Identifying the Metadata Convention being used in the file and providing a link to more complete metadata, possibly using a different convention, are also important.

Score	Attribute	Description	THREDDS	ISO 19115-2
1	id	The combination of the "naming authority" and the "id" should be a globally unique identifier for the dataset.		
1	naming_authority			
1	Metadata_Conventions	This attribute should be set to "Udata Dataset Discovery v1.0" for NetCDF files that follow this convention.		
1	Metadata_Link or metadata_link	This attribute provides a link to a complete metadata record for this dataset or the collection that contains this dataset. This attribute is not included in Version 1 of the Udata Attribute Convention for Data Discovery. It is recommended here because a complete metadata collection for a dataset will likely contain more information than can be included in grange format. This attribute contains a link to that information.		

[Identification](#) [Text Search](#) [Extent Search](#) [Other Extent Information](#) [Contributor Search](#) [Publisher Search](#) [Other Attributes](#)

Text Search Score: 4/7

Text searches are a very important mechanism for data discovery. This group includes attributes that contain descriptive text that could be the target of these searches. Some of these attributes, for example title and summary, might also be displayed in the results of text searches.

Score	Attribute	Description	THREDDS	ISO 19115-2
1	title	A short description of the dataset.	dataset@name	gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:citation/gmd:CI_Citation/gmd:title/gco:CharacterString
1	summary	A paragraph describing the dataset.	metadata.documentation@type="summary"	gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:abstract/gco:CharacterString
1	keywords	A comma separated list of key words and phrases.	metadata.keyword	gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiveKeywords/gmd:MD_Keywords/gmd:keyword/gco:CharacterString
1	keywords_vocabulary	If you are following a guideline for the words/phrases in your "keywords" attribute, put the name of that guideline here.	metadata.keyword/vocabulary	gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiveKeywords/gmd:MD_Keywords/gmd:thesaurusName/gmd:CI_Citation/gmd:title/gco:CharacterString
1	standard_name_vocabulary	The name of the controlled vocabulary from which variable standard names are taken.	metadata.variables/vocabulary	gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:descriptiveKeywords/gmd:MD_Keywords/gmd:thesaurusName/gmd:CI_Citation/gmd:title/gco:CharacterString
1	history	Provides an audit trail for modifications to the original data.		gmi:MI_Metadata/gmd:dataQualityInfo/gmd:DQ_DataQuality/gmd:usage/gmd:L1_Lusage/gmd:statement/gco:CharacterString
1	comment	Miscellaneous information about the data.	metadata.documentation	gmi:MI_Metadata/gmd:identificationInfo/gmd:MD_DataIdentification/gmd:supplementalInformation

[Identification](#) [Text Search](#) [Extent Search](#) [Other Extent Information](#) [Contributor Search](#) [Publisher Search](#) [Other Attributes](#)

NCML to ISO

Translate from NCML to ISO 19115-2

- Input: ACDD compliant NetCDF XML

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<gmi:MI_Metadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:gmd="http://www.isotc211.org/2005/gmd"
  xmlns:gml="http://www.isotc211.org/2005/gml" xmlns:srv="http://www.isotc211.org/2005/srv" xmlns:gmw="http://www.isotc211.org/2005/gmw" xmlns:gss="http://www.isotc211.org/2005/gss"
  xmlns:gts="http://www.isotc211.org/2005/gts" xmlns:gml="http://www.opengis.net/gml/3.2" xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema" xsi:schemaLocation="http://www.isotc211.org/2005/gmi http://data.noaa.gov/resources/iso19139/schema.xsd">
  <gmd:fileIdentifier>
    <gco:CharacterString>gov.noaa.nesdis.nde:0a62e344-6916-4070-926a-1c65a85308d2</gco:CharacterString>
  </gmd:fileIdentifier>
  <gmd:language>
    <gmd:LanguageCode codeList="https://data.noaa.gov/resources/iso19139/schema/resources/Codelist/gmxCodeLists.xml#LanguageCode" codeListValue="eng">eng</gmd:LanguageCode>
  </gmd:language>
  <gmd:characterSet>
    <gmd:MD_CharacterSetCode codeList="https://data.noaa.gov/resources/iso19139/schema/resources/Codelist/gmxCodeLists.xml#MD_CharacterSetCode"
      codeListValue="UTF8">UTF8</gmd:MD_CharacterSetCode>
  </gmd:characterSet>
  <gmd:hierarchyLevel>
    <gmd:MD_ScopeCode codeList="https://data.noaa.gov/resources/iso19139/schema/resources/Codelist/gmxCodeLists.xml#MD_ScopeCode" codeListValue="dataset">dataset</gmd:MD_ScopeCode>
  </gmd:hierarchyLevel>
  <gmd:contact>
    <gmd:CI_Contact>
      <gmd:individualName>
        <gco:CharacterString>DOC/NOAA/NESDIS/STAR > AF Algorithm Team, Center for Satellite Applications and Research, NESDIS, NOAA, U.S. Department of
          Commerce</gco:CharacterString>
      </gmd:individualName>
      <gmd:organisationName>
        <gco:CharacterString>DOC/NOAA/NESDIS/NDE > S-NPP Data Exploitation, NESDIS, NOAA, U.S. Department of Commerce</gco:CharacterString>
      </gmd:organisationName>
      <gmd:contactInfo>
        <gmd:CI_Contact>
          <gmd:address>
            <gmd:CI_Address>
              <gmd:electronicMailAddress>
                <gco:CharacterString>esoperations@noaa.gov</gco:CharacterString>
              </gmd:electronicMailAddress>
            </gmd:CI_Address>
          </gmd:address>
        </gmd:CI_Contact>
      </gmd:contactInfo>
    </gmd:CI_Contact>
  </gmd:contact>
  </gmi:MI_Metadata>
```

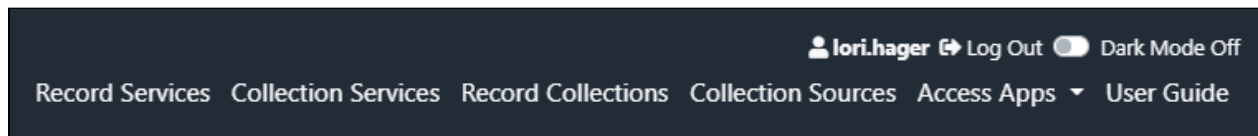
WAF On Demand

Web Accessible Files (WAFs) are configured to be refreshed on a recurring basis. Frequency is determined at set-up but can be adjusted as needed by contacting ncei.collection-manager.support@noaa.gov

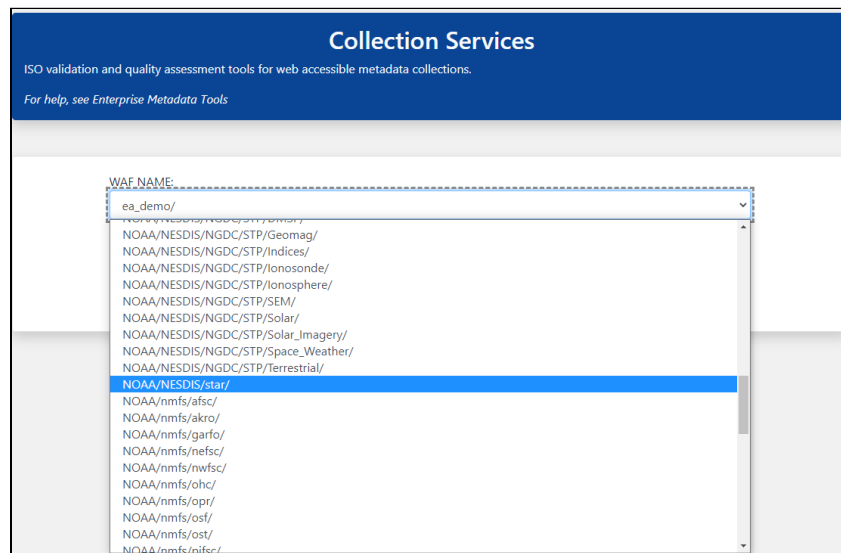
WAF On Demand is available to users that need to refresh an entire WAF immediately. WAF On Demand resolves Xlink components, generates rubric and diagnostic reports, and Table of Contents for a public WAF. This service is for legacy customers and it is recommended that new customers publish records through [CoMET](#).

Collection Services

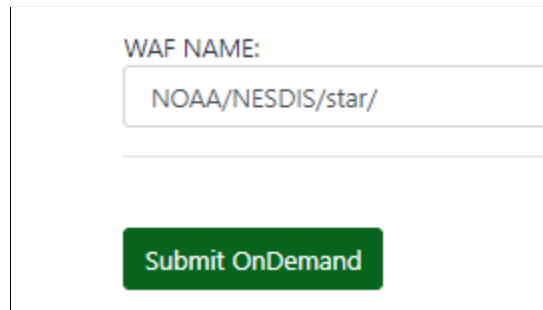
- On Home page click ‘Collection Services’



- From ‘WAF NAME’ dropdown menu, select a WAF



- Click ‘Submit OnDemand’

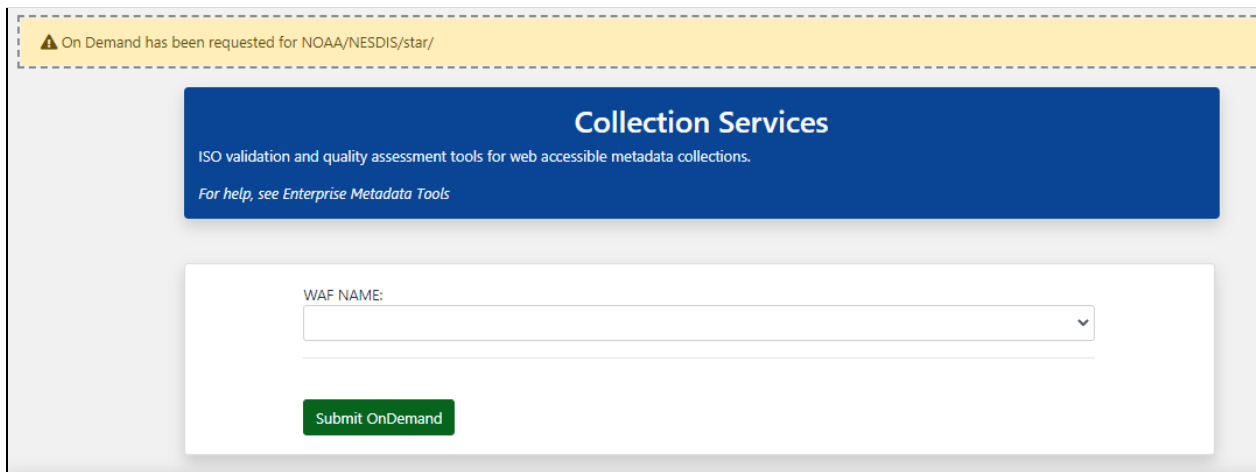


WAF NAME:

NOAA/NESDIS/star/

Submit OnDemand

- Message appears ‘On Demand has been requested for’



⚠ On Demand has been requested for NOAA/NESDIS/star/

Collection Services

ISO validation and quality assessment tools for web accessible metadata collections.
For help, see Enterprise Metadata Tools

WAF NAME:

Submit OnDemand

Change Log

Revision Number	Description of Change	Author	Date
NR	New Release	C Luquire, L Hager	6/28/2021
A	Updated version number on title page and footer; standardized formatting; fixed broken links; updated screenshots	L Hager, C Luquire	9/02/2021