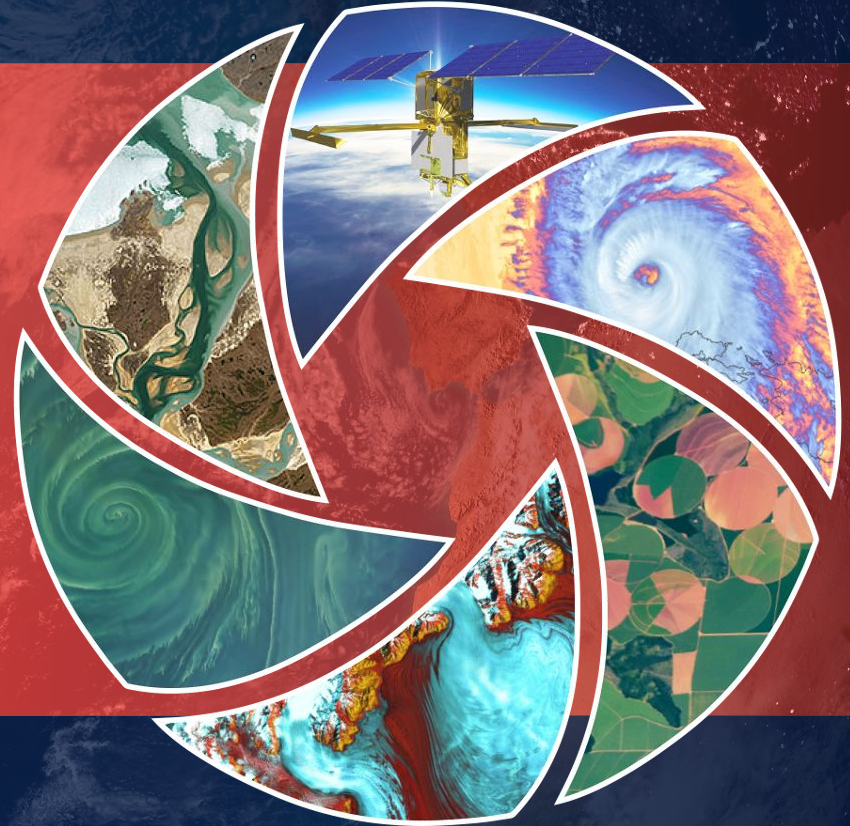


International Directory Network (IDN) Report

CEOS WGISS-56, hosted by CNES
Paris, France, October 25, 2023

Michael Morahan (KBR (contractor))
IDN Coordinator
Michael.P.Morahan@nasa.gov



EARTHDATA
OPEN ACCESS FOR OPEN SCIENCE

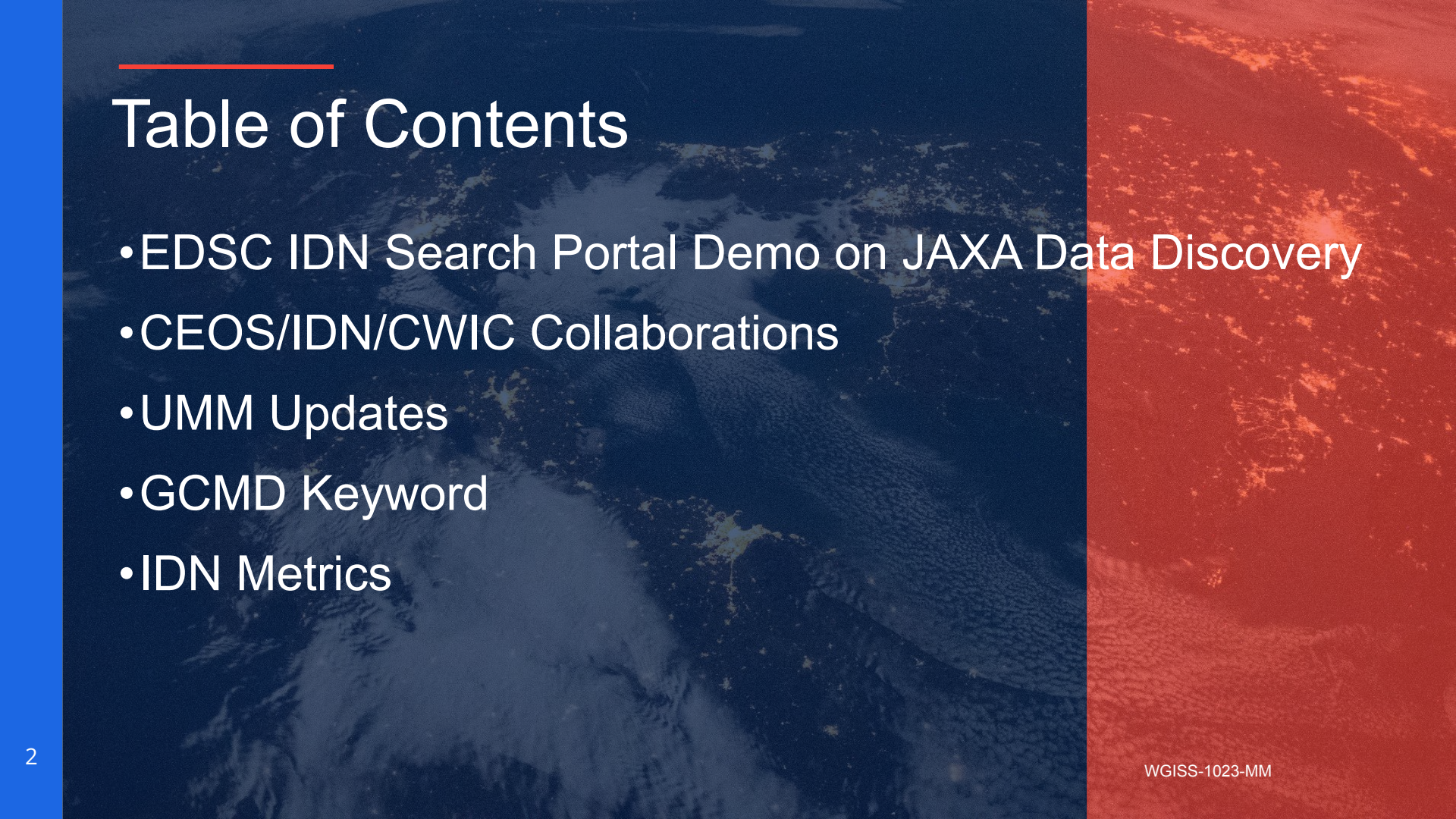


Table of Contents

- EDSC IDN Search Portal Demo on JAXA Data Discovery
- CEOS/IDN/CWIC Collaborations
- UMM Updates
- GCMD Keyword
- IDN Metrics



EDSC IDN Search Portal Demo on JAXA data discovery

IDN Search Portal JAXA Collection-Granule DEMO

IDN Search Portal: <https://search.earthdata.nasa.gov/search?portal=idn>

The screenshot displays the EarthData Search interface. At the top, the header includes the NASA logo, 'EARTHDATA', and a search bar. Below the header, the 'EARTHDATA SEARCH' section is visible. On the left, there is a sidebar with a search bar and a 'Filter Collections' section. The main content area shows search results for 'Sentinel-1 SLC interferometric products generated by JPL using ISCE v2.0.0, delivered by ASF'. The results list 59,211 matching collections, with the first result being 'MODIS/Terra Surface Reflectance Daily L2G Global 1km and 500m SIN Grid V061'. A map of the Middle East is shown on the right side of the interface.

EARTHDATA SEARCH

Find a DAAC

IDN (CEOS International Directory Ne...)
Leave Portal

Search for collections or topics

Browse Portals

Filter Collections

Features

- ☐ Available in Earthdata Cloud
- ☐ Customizable
- ☐ Map Imagery

Keywords

Platforms

Instruments

Organizations

59,211 Matching Collections

Showing 40 of 59,211 matching collections

1,159,346 Granules 2014-06-15 ongoing

Earthdata Cloud

Sentinel-1 SLC interferometric products generated by JPL using ISCE v2.0.0, delivered by ASF

GEOS - SENTINEL-1_INTERFEROGRAMS v1 - Alaska Satellite Facility

MODIS/Terra Surface Reflectance Daily L2G Global 1km and 500m SIN Grid V061

2,724,308 Granules 2000-02-24 ongoing

The MOD09GA Version 6.1 product provides an estimate of the surface spectral reflectance of Terra Moderate Resolution Imaging Spectroradiomet...

GEOS - MOD09GA v061 - LP DAAC

MODIS/Terra Surface Reflectance Daily L2G Global 1km and 500m SIN Grid V061

2,727,788 Granules 2000-02-24 ongoing

The MOD09GA Version 6.1 product provides an estimate of the surface spectral reflectance of Terra Moderate Resolution Imaging Spectroradiomet...

Subscriptions

v23.3.3-1 · Search Time: 3.5s · NASA Official: Stephen Berrick · FOIA · NASA Privacy Policy · USA.gov

Earthdata Access: A Section 508 accessible alternative

JAXA Collection Discovery

The user can either refine searches for JAXA collections by (see red boxes):

1. Typing JAXA into the free-text box and selecting the desired facet element.
2. Or, selecting Organization Data Center facet value “JP/JAXA/SAOC”.

The collection results will be narrowed down to only show the JAXA collections.

The screenshot displays the EarthData Search interface. The search bar at the top contains the text "JAXA". The left sidebar shows a list of organizations with checkboxes, where "JP/JAXA/SAOC" is selected. The main content area displays "59,211 Matching Collections" and lists several collection entries, including "Sentinel-1 SLC interferometric products" and "MODIS/Terra Surface Reflectance Daily L2G Global 1km and 500m SIN Grid V061". A map of the Middle East is visible on the right side of the interface.

JAXA Collection Discovery Results

The screenshot displays the EarthData Search web application. The header includes the NASA logo, 'EARTHDATA', and a search bar. Below the header, the 'EARTHDATA SEARCH' section shows a search for 'JP/JAXA/SAOC' with 1,017 matching collections. The results are listed in a table with columns for 'Showing 20 of 1,017 matching collections', 'Export', 'Sort', and 'View'. The first three results are for 'ADEOS-II/AMSR L1A', 'ADEOS-II/AMSR L1B', and 'ADEOS-II/AMSR L2 Amount of Precipitation'. Each result includes a description of the dataset and a 'No image available' placeholder. A sidebar on the left contains filters for 'Features', 'Keywords', 'Platforms', 'Instruments', 'Organizations' (with '1 Selected'), and 'Projects'. A map on the right shows the location of the datasets. The footer includes version information, search time, and links to NASA policies.

EARTHDATA SEARCH

Find a DAAC -

Earthdata Login

1,017 Matching Collections

Showing 20 of 1,017 matching collections

Export Sort View

ADEOS-II/AMSR L1A

Int'l / Interagency 2003-04-02 to 2003-10-25

ADEOS-II/AMSR L1A dataset is obtained from the AMSR sensor onboard ADEOS-II and produced by the Japan Aerospace Exploration Agency...

CEOS - ADEOS-II_AMSR_L1A vNA - JP/JAXA/SAOC

ADEOS-II/AMSR L1B

Int'l / Interagency 2003-04-02 to 2003-10-25

ADEOS-II/AMSR L1B dataset is obtained from the AMSR sensor onboard ADEOS-II and produced by the Japan Aerospace Exploration Agency...

CEOS - ADEOS-II_AMSR_L1B vNA - JP/JAXA/SAOC

ADEOS-II/AMSR L2 Amount of Precipitation

Int'l / Interagency 2003-04-02 to 2003-10-25

ADEOS-II/AMSR L2 Amount of Precipitation dataset is obtained from the AMSR sensor onboard ADEOS-II and produced by the Japan Aerospace...

CEOS - ADEOS-II_AMSR_L2 vNA - JP/JAXA/SAOC

Looking for more collections? Leave the IDN Portal

Earthdata Access: A Section 508 accessible alternative

Collection Refinement by Platform

Refine by Platform using client Filter Collections feature (see red boxes):

1. Click on Platforms
2. Then click on Space-based Platform
3. Finally click on GCOM-W1

The results will be narrowed down to only show the JAXA GCOM-W1 platform collections.

The screenshot displays the Earthdata Search web application. On the left sidebar, the 'Platforms' filter is expanded, showing 'Space-based Platforms' and 'Earth Observation Satellites' selected. The 'GCOM-W1' platform is also selected, with a count of 70 collections. The main content area shows a list of 70 matching collections, with the first three items visible: 'GCOM-W/AMSR2 L1B Brightness Temperature', 'GCOM-W/AMSR2 L1R Brightness Temperature', and 'GCOM-W/AMSR2 L2 Cloud Liquid Water'. Each item includes a description and a 'No image available' placeholder. The right side of the interface features a map of the Middle East and surrounding regions. The bottom of the page shows the version 'v23.3.3-1', search time '21.0s', and various links like 'NASA Official: Stephen Berrick' and 'FOIA'.

Selecting JAXA Collection: GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)

Selecting from resulting JAXA
GCOM-W1 collections:

1. Scroll down to wanted collection.
2. Click on collection (see red box).

The screenshot displays the Earthdata Search interface. At the top, the header includes the NASA logo, 'EARTHDATA', and a search bar. Below the header, the search results are shown for the query 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)'. The results list shows 70 matching collections, with 40 displayed. The first result is highlighted with a red box. It is titled 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)' and is an Int'l / Interagency collection from 2012-07-02 onwards. The description states that the dataset is obtained from the AMSR2 sensor onboard GCOM-W and produced by the... The source is listed as CEOS - GCOM-W_AMSR2_L3_SIC_1month_0.1deg vNA - JP/JAXA/SAOC. To the right of the text is a placeholder for a thumbnail image, labeled 'No image available'. Below the first result, two other collections are visible: 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.25 deg)' and 'GCOM-W/AMSR2 L3 Soil Moisture Content (1-Day, 0.1 deg)'. On the left side of the interface, there is a sidebar with filters. Under 'Platforms', '3 Selected' are shown. Under 'Space-based Platforms', 'Earth Observation Satellites' is checked. A list of platforms follows: 'Advanced Earth Observi...' (246), 'Advanced Land Observing ...' (1), 'Aqua' (115), 'GCOM-C' (544), 'GCOM-W1' (70), 'GPM' (16), 'Japan Marine Observation ...' (2), 'Japanese Earth Resources...' (4), and 'TRMM' (19). At the bottom of the interface, there is a footer with version information 'v23.3.3-1', search time '45.5s', and links to NASA Official, FOIA, and Privacy Policy. On the right side, there is a map of the world showing the location of the collection.

Granule Refinement by Temporal

Refine by time using client Filter Granules feature (see red box):

1. Enter temporal values
2. Temporal format YYYY-MM-DD HH:mm:ss

The results will be narrowed down to only show the granules within the temporal range.

The screenshot displays the EarthData Search web application. On the left, the 'Filter Granules' panel is visible, with the 'Temporal' section highlighted by a red box. This section contains input fields for 'Start' (set to '2023-01-01') and 'End' (set to '2023-01-31 23:59:58'), along with a 'Recurring?' checkbox. The main search results area shows 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)' with 32 matching granules. Each granule is represented by a thumbnail image and a table of 'START' and 'END' timestamps. A map of the Middle East is visible on the right side of the interface. The bottom of the page features a navigation bar with the NASA logo, 'EARTHDATA' text, and 'OPEN ACCESS FOR OPEN SCIENCE' slogan.

View Granule Details or Download Data

The user can choose to:

1. View the granule details by clicking on the 3 vertical dots (see red box).
2. Or, click Download All to proceed to download data files (see green box).

The screenshot displays the EarthData Search web application. At the top, the header includes the NASA logo, 'EARTHDATA', and a search bar. Below the header, the search results for 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)' are shown. The results list 32 granules, with the first four visible. Each granule entry includes a thumbnail map, a 'START' time, and an 'END' time. A red box highlights the three vertical dots next to the first granule, indicating the option to view granule details. A green box highlights the 'Download All' button at the bottom right of the results list. The interface also includes a 'Filter Granules' section on the left with temporal filters for 'Start' and 'End' dates, and a 'Subscriptions' section at the bottom. A map of the Arctic region is visible on the right side of the interface.

Viewing Granule Details

The user is able to see:

1. Collection details in the left box of the client.
2. Data files associated with the granule in the main box.

The screenshot displays the EarthData Search web application. The top navigation bar includes the NASA logo, 'EARTHDATA', and a search bar. Below this, the 'EARTHDATA SEARCH' header is visible. The left sidebar contains a search bar and a 'Collection Details' section for the dataset 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)'. The main content area shows the 'Information' tab with a JSON metadata object. The right side of the interface features a map of the Indian Ocean region with a scale bar.

Search Results / GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)

Information **Metadata**

```
{
  "id": "https://fedeo.ceos.org/opensearch/request/?httpAccept=appl
W_AMSR2_L3_SIC_lmonth_0.1deg&uid=GW1AM2_20230800_01M_PNMD_L3SGSICH
"link": [
  {
    "href": "https://fedeo.ceos.org/opensearch/request/?httpAccept
W_AMSR2_L3_SIC_lmonth_0.1deg&uid=GW1AM2_20230800_01M_PNMD_L3SGSICH
"rel": "alternate",
"title": "Atom format",
"type": "application/atom+xml"
  },
  {
    "href": "https://fedeo.ceos.org/opensearch/request/?httpAccept
W_AMSR2_L3_SIC_lmonth_0.1deg&recordSchema=iso",
"rel": "up",
"title": "Up",
"type": "application/atom+xml"
  }
],
  "type": "application/atom+xml"
}
```

Earthdata Access: A Section 508 accessible alternative

Data Access Method

The client automatically selects Direct Download for the user (see red box).

The user can change the download options or continue with Download Data (see green box).

The screenshot displays the NASA EarthData Search web application. The main content area shows a project titled 'Untitled Project' with 32 granules and a collection of 0.0 MB. Below this, a search result for 'GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)' is visible, also with 32 granules. A red rectangular box highlights a dialog box titled '1 Select a data access method'. This dialog box contains the text: 'The selected access method will determine which customization and output options are available.' Below this text, the 'Direct Download' option is selected with a blue checkmark. The description for this option is 'Direct download of all data associated with the selected granules.' and there is a 'More Info' link. Below the dialog box, there is a section titled '2 Configure data customization options' with the instruction 'Edit the options below to configure the customization and output options for the selected data product.' At the bottom of the main content area, there is a green 'Download Data' button and a 'Done' button. The right side of the interface features a map of the Middle East and surrounding regions. The bottom of the page includes a footer with the NASA logo, 'EARTHDATA OPEN ACCESS FOR OPEN SCIENCE', and various links and version information.

Granule Download Status

The Download status page shows the user:

1. Status of the order
2. Access Method
3. Number of Granules

The user can choose the Download method (see red box):

1. Download files through direct links.
2. Or, copy a script from the Download Script tab that can run on the user's device.

The screenshot shows the Earthdata Search interface. The browser address bar displays `search.earthdata.nasa.gov/downloads/2403626254`. The page title is "Download Status". A message states: "This page will automatically update as your orders are processed. The Download Status page can be accessed later by visiting <https://search.earthdata.nasa.gov/downloads/2403626254> or the Download Status and History page."

The main content area displays the order details for "GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)":

Status	Access Method	Granules
Complete (100%)	Download	32 Granules

Below the table, it says: "Download your data directly from the links below, or use the provided download script."

Two tabs are visible: "Download Files" (highlighted with a red box) and "Download Script".

Under the "Download Files" tab, a progress bar shows "Retrieved 32 files for 32 granules" at 100%. Below the progress bar, a list of download links is shown, including:

- `https://gportal.jaxa.jp/download/standard/GCOM-W/GCOM-W.AMSR2/L3.SIC_10/3/2023/01/GW1AM2_20230100_01M_PSMMA_L3SGSICH`
- `https://gportal.jaxa.jp/download/standard/GCOM-W/GCOM-W.AMSR2/L3.SIC_10/3/2023/01/GW1AM2_20230100_01M_PNMA_L3SGSICH`
- `https://gportal.jaxa.jp/download/standard/GCOM-W/GCOM-W.AMSR2/L3.SIC_10/3/2023/01/GW1AM2_20230100_01M_PSMMD_L3SGSICH`
- `https://gportal.jaxa.jp/download/standard/GCOM-W/GCOM-W.AMSR2/L3.SIC_10/3/2023/01/GW1AM2_20230100_01M_PNMD_L3SGSICH`
- `https://gportal.jaxa.jp/download/standard/GCOM-W/GCOM-W.AMSR2/L3.SIC_10/3/2023/02/GW1AM2_20230200_01M_PSMMD_L3SGSICH`
- `https://gportal.jaxa.jp/download/standard/GCOM-W/GCOM-W.AMSR2/L3.SIC_10/3/2023/02/GW1AM2_20230200_01M_PNMD_L3SGSICH`

The footer of the page includes "v23.3.3-1", "NASA Official: Stephen Berrick", "FOIA", "NASA Privacy Policy", "USA.gov", and "Earthdata Access: A Section 508 accessible alternative".

JAXA G-Portal (Globe Portal System) Login

G-Portal
Globe Portal System

日本語 ENGLISH JAXA

You need to log in to access the specified URL. Please enter your login information.

User account: mmorahan

Password: *****

Login Clear

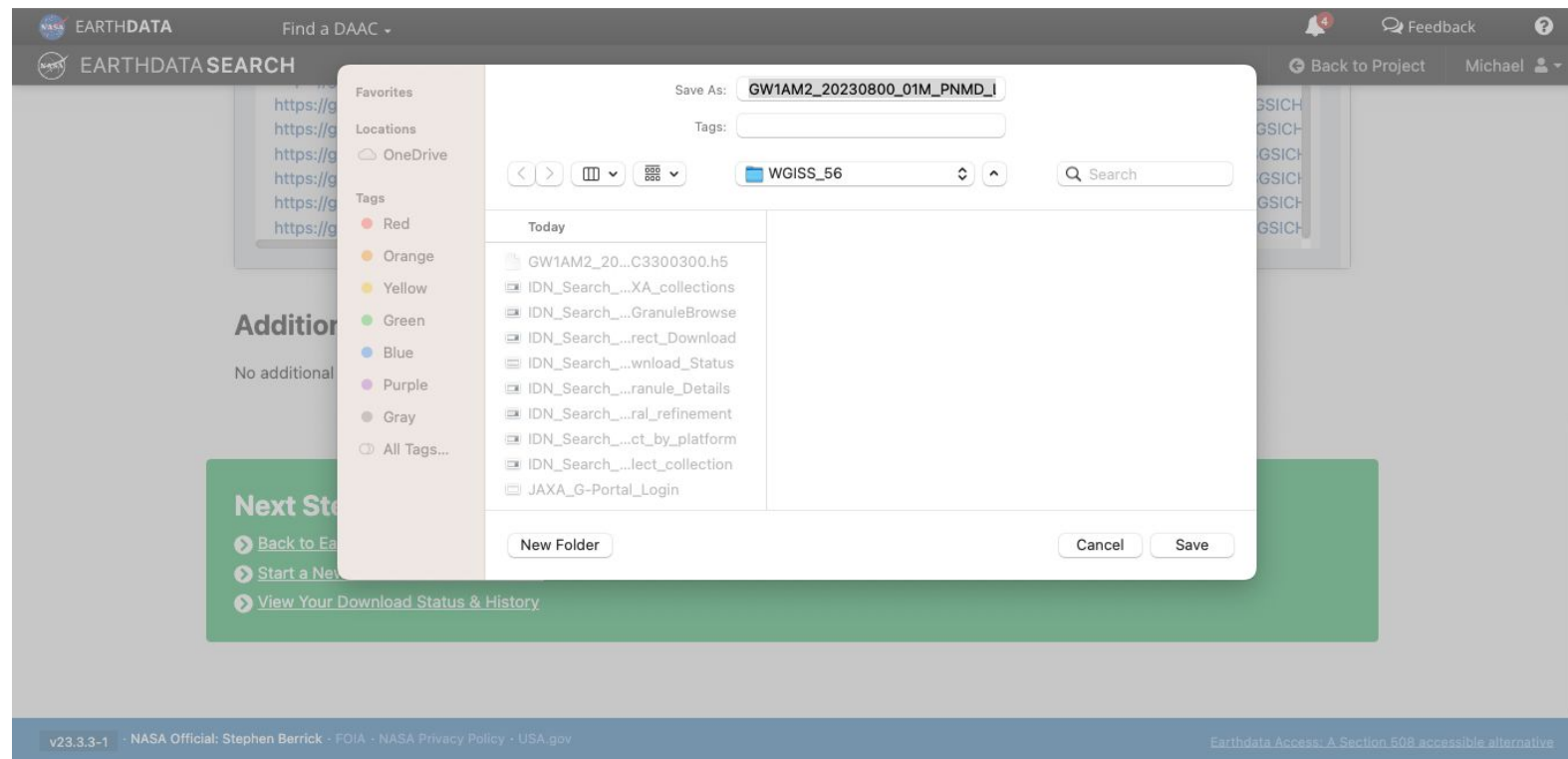
For user registration, click [here](#)
If you have forgot your password, click [here](#)
If you have forgot your account, click [here](#)

JAXA G-Portal link: <https://gportal.jaxa.jp/gpr/?lang=en>



EARTHDATA
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Granule Download by way of G-Portal API



Display Granule Data on User's Device with Panoply
GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg)
Data's temporal value August 2023

Panoply is developed by NASA's Goddard Institute for Space Studies (GISS).

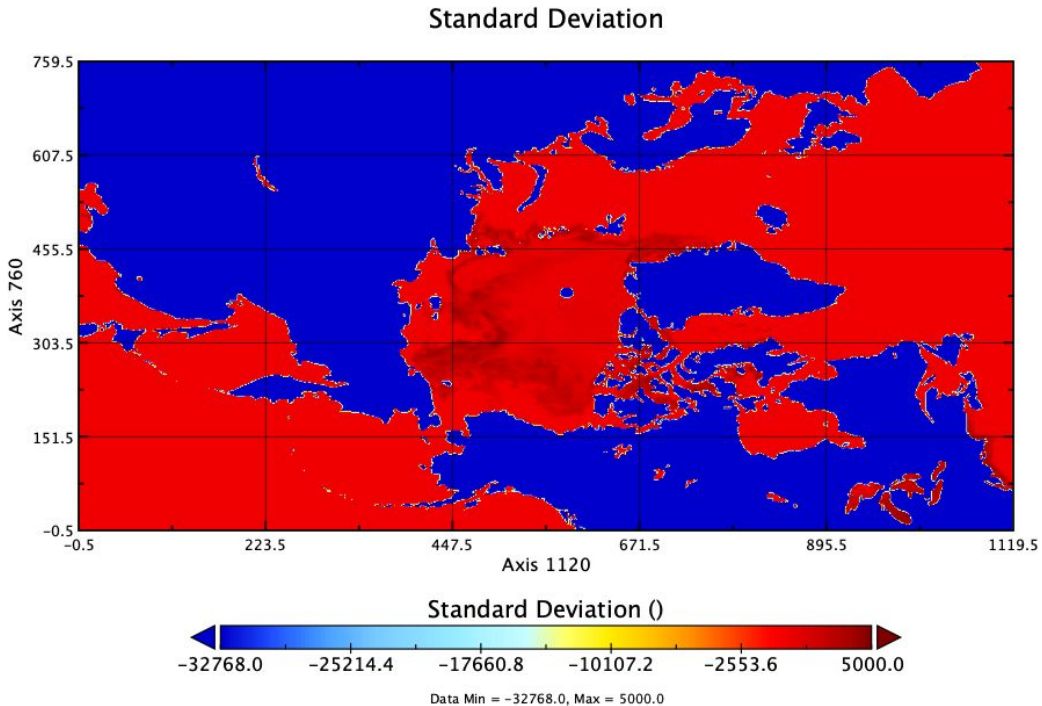
The program is a cross-platform application that plots geo-referenced and other arrays, from Network Common Data Form (NetCDF), Hierarchical Data Format (HDF), and GRIdded Binary (GRIB). Panoply offers additional functionality, such as slicing and plotting arrays, combining arrays, and exporting plots and animations.

Download link:

<https://www.giss.nasa.gov/tools/panoply/>

NASA's Goddard Institute for Space Studies (GISS), Panoply is 5.2.9, released 2023-07-31., <https://www.giss.nasa.gov/tools/panoply/>

Japan Aerospace Exploration Agency. 2012. GCOM-W/AMSR2 L3 Sea Ice Concentration (1-Month, 0.1 deg). <https://doi.org/10.57746/E0.01qs73b13wqb5hvzs8fv7v8jgs>





CEOS/IDN/CWIC Collaborations

IDN Search and CWIC Portals, IDN/CWIC Metrics,
CEOS/IDN/CWIC Collaborations

IDN Search and CWIC Portals

IDN Search Portal

The screenshot shows the IDN Search Portal interface. The header includes the EarthData logo and a search bar. The main content area displays '58,698 Matching Collections'. A list of collections is shown, including 'ASTER Global Digital Elevation Model V003' and 'Sentinel-1 Interferograms'. A sidebar on the left contains filters for 'Features', 'Keywords', 'Platforms', 'Instruments', and 'Organizations'. A map of the Middle East is visible on the right side of the page.

CWIC Portal

The screenshot shows the CWIC Portal interface. The header includes the EarthData logo and a search bar. The main content area displays '15,883 Matching Collections'. A list of collections is shown, including 'MODIS/Aqua Surface Reflectance Daily L20 Global 1km and 500m SIN Grid V061' and 'MODIS/Aqua Surface Reflectance Daily L20 Global 1km and 500m SIN Grid V061'. A sidebar on the left contains filters for 'Features', 'Keywords', 'Platforms', 'Instruments', and 'Organizations'. A map of the Middle East is visible on the right side of the page.

<https://search.earthdata.nasa.gov/portal/idn/search>

<https://search.earthdata.nasa.gov/portal/cwic/search>



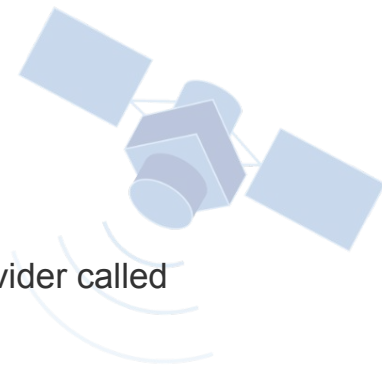
IDN/CWIC Metrics

- Total Collections and Granules offered by the CWIC and FedEO:

<u>CEOS Interfaces</u>	<u>Total Collections</u>	<u>Total Granules</u>
CWIC	366	16,343,605
FedEO	528	55,666,056
JAXA/FedEO	1017	13,719,472

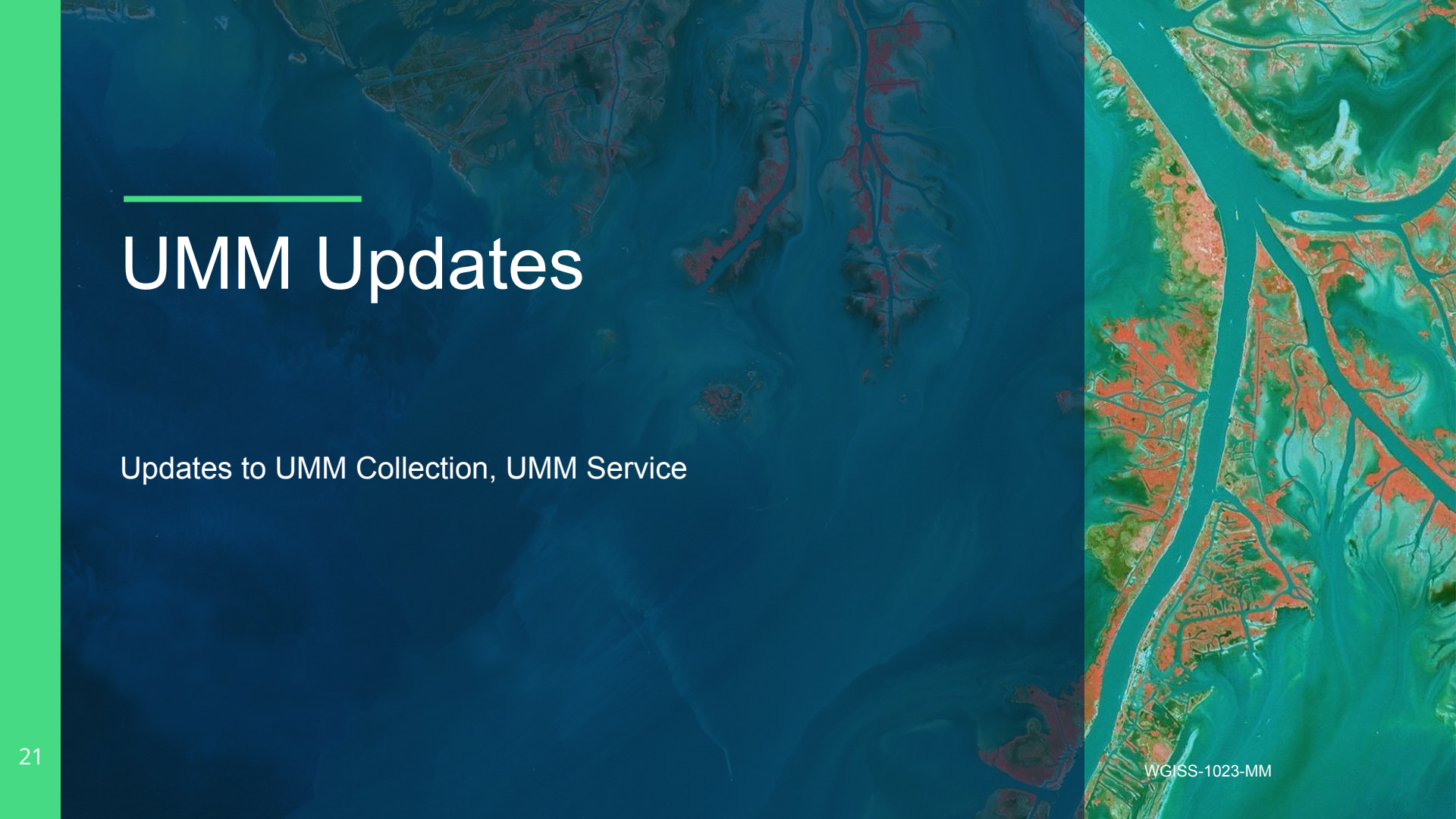
- Total Collections and Granules offered by the IDN:

<u>IDN Search Portal</u>	<u>Total Collections</u>	<u>Total Granules</u>
IDN	52,744	1,366,433,966



CEOS/IDN/CWIC Collaborations

- ESA/FedEO
 - VITO collections are consolidated from 2 VITO FedEO providers in one provider called VITO-TERRASCOPE (98 collections).
- JAXA
 - Ingested all the 1017 JAXA collections from FedEO API into NASA's CMR for the IDN.
 - The collections are connected to JAXA's G-Portal OpenSearch API for granules discovery and download.
- NOAA NCEI
 - NOAA/NCEI plans to update OpenSearch Description Documents (OSDD) to resume granule discovery in the IDN.
- CEOS Tools
 - Search for CEOS tools by ShortName or Keyword examples:
 - ShortName: https://cmr.earthdata.nasa.gov/search/tools.umm_json?name=Proba-V%20MEP&pretty=true
 - Keywords: <https://cmr.earthdata.nasa.gov/search/tools?keyword=Sentinel%20satellites>



UMM Updates

Updates to UMM Collection, UMM Service

UMM Updates



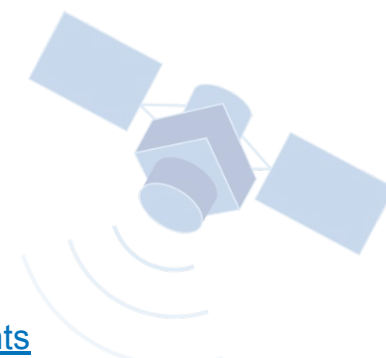
- UMM Collection (version 1.17.3)
 - Update URLMimeTypeEnum with new 'application/x-vnd.iso.19139-2+xml' enumeration
 - "MimeType": "application/x-vnd.iso.19139-2+xml"
 - Collection Schema:
<https://git.earthdata.nasa.gov/projects/EMFD/repos/unified-metadata-model/browse/collection/v1.17.3>
- UMM Service (version 1.5.2)
 - Updated schema "oneOf" for DataResourceSpatialExtentType element.
 - Service Schema:
<https://git.earthdata.nasa.gov/projects/EMFD/repos/unified-metadata-model/browse/service/v1.5.2>
- UMM Tool (version 1.2.0)
 - No Updates
 - Tool schema: <https://git.earthdata.nasa.gov/projects/EMFD/repos/unified-metadata-model/browse/tool/v1.2.0>
- UMM VAR (version 1.9.0)
 - IDN plans to review the UMM Variable schema metadata entries as a source for NASA's CEOS Climate Data Records (CDR) for the Essential Climate Variables (ECV) Inventory.
 - VAR schema:
<https://git.earthdata.nasa.gov/projects/EMFD/repos/unified-metadata-model/browse/variable/v1.9.0>





GCMD Keywords

GCMD Keyword Releases, GCMD Keyword Forum, GCMD
Keyword Interfaces



GCMD Keywords

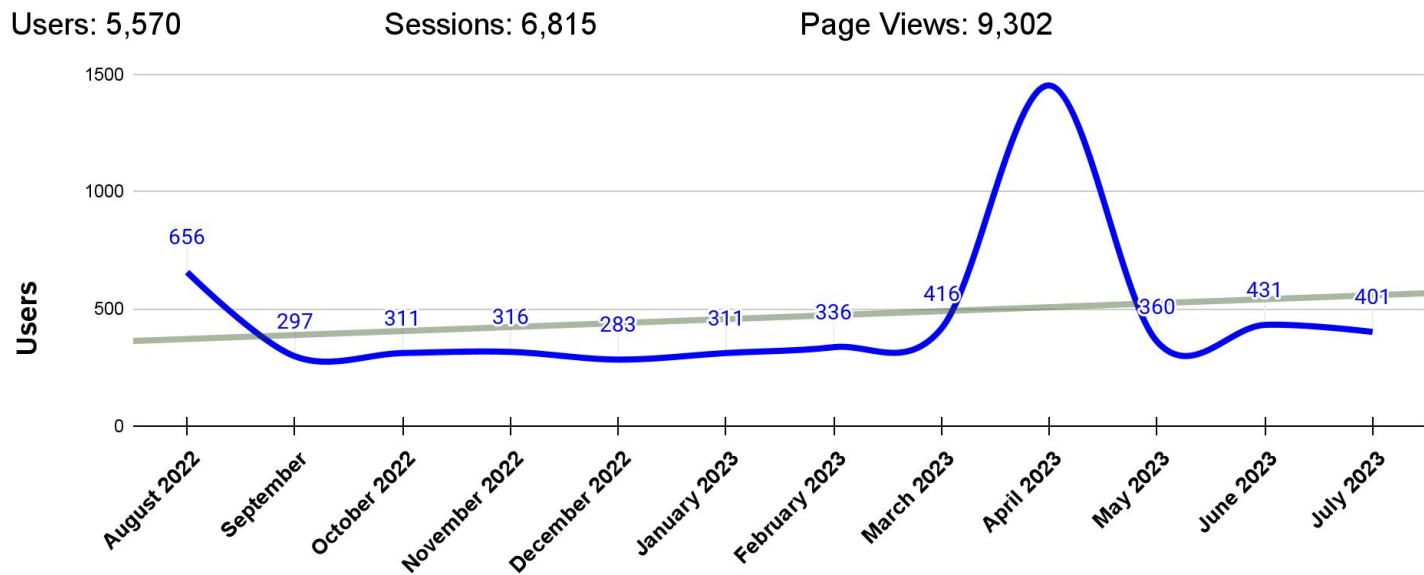
- GCMD Keyword Releases:
 - All Keyword releases:
<https://wiki.earthdata.nasa.gov/display/ED/Keyword+Release+Announcements>
 - 11 Keyword releases (Version 15.7 to 16.7) since WGISS-56 with various additions to Science Keywords, Platforms, Instruments, Providers, Projects, Data Format, and Product Level ID
- GCMD Keyword Forum: <https://forum.earthdata.nasa.gov/app.php/tag/GCMD+Key> words
 - Forum lets GCMD metadata providers request new or updates to the GCMD Keywords and allows users to provide feedback and comments.
 - Forums User Guide: <https://forum.earthdata.nasa.gov/docs/assets/sitedocs/userguide.pdf>
- GCMD Keyword Interfaces:
 - All public GCMD Keywords can reviewed using Keyword Viewer or KMS API:
 - Keyword Viewer: <https://gcmd.earthdata.nasa.gov/KeywordViewer>
 - KMS API: <https://gcmd.earthdata.nasa.gov/kms/>
 - Example: https://gcmd.earthdata.nasa.gov/kms/concepts/concept_scheme/instruments?format=rdp

The background of the slide is a map. The left portion is covered by a semi-transparent blue overlay. On the right, a vertical strip shows a map with a red/orange area, possibly representing a specific region or data set. The title 'IDN Metrics' is positioned on the blue overlay.

IDN Metrics

IDN Homepage Usage, IDN SearchPortal Usage

IDN Homepage Usage (August 2022 to August 2023) (<https://idn.ceos.org/>)



EARTHDATA
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User: An individual person browsing the website.

Sessions: A single visit to the website, consisting of one or more pageviews.

Page Views: A pageview is reported when a page has been viewed by a user on the website.

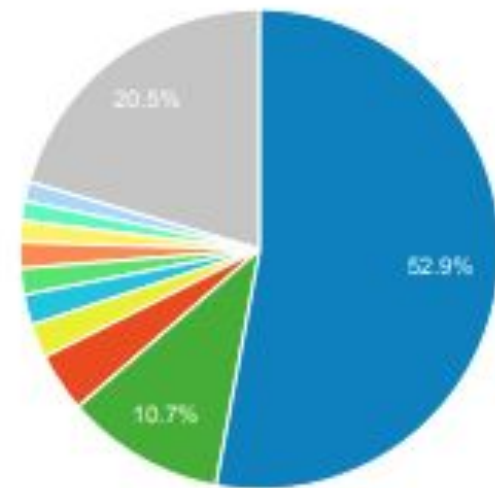
WGISS-1023-MM

IDN Homepage Usage (continue)

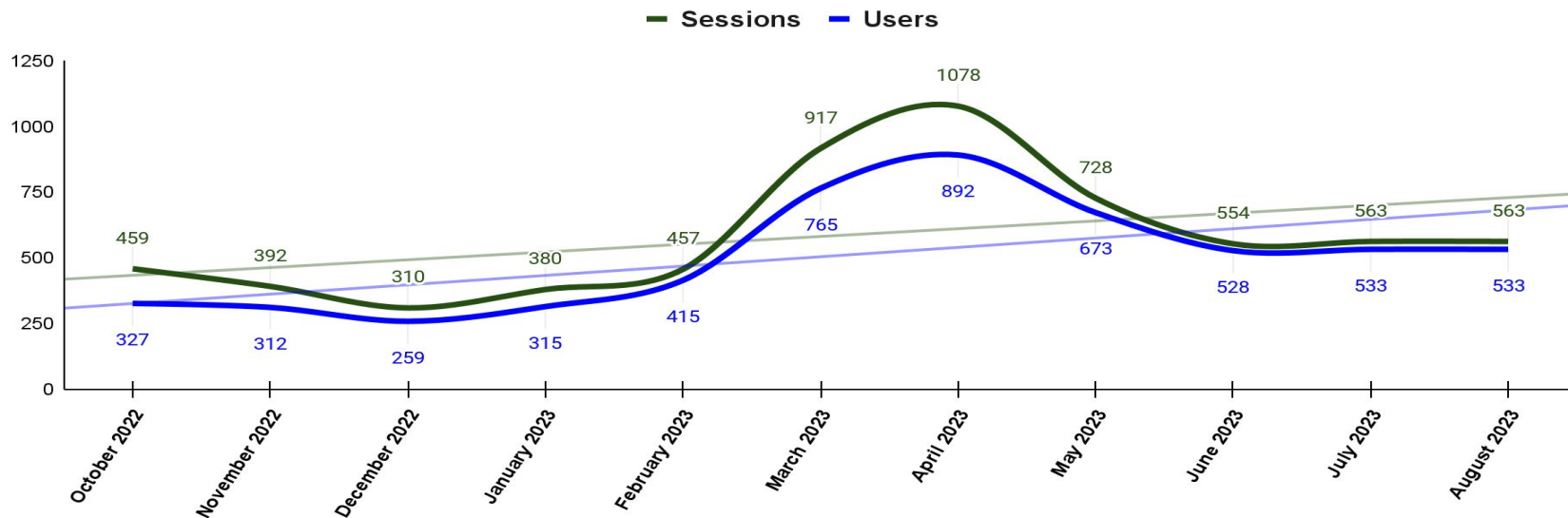
(August 2022 to August 2023)

(<https://idn.ceos.org/>)

1.		United States	52.92%
2.		China	10.71%
3.		India	3.99%
4.		Germany	2.27%
5.		United Kingdom	2.07%
6.		Japan	1.76%
7.		Canada	1.74%
8.		Netherlands	1.43%
9.		Russia	1.32%
10.		Australia	1.30%



IDN Search Portal Usage (October 2022 to August 2023) (<https://search.earthdata.nasa.gov/portal/idn/search>)



IDN SearchPortal Usage (continue)

(October 2022 to August 2023)

(<https://search.earthdata.nasa.gov/portal/idn/search>)

Page	Sessions	Views	Users
/portal/idn/search	6168	35785	6127
/portal/idn/search/granules	2531	74260	2527
/portal/idn/projects	81	5369	587
/portal/idn/search/granules/collection-details	109	1395	379
/portal/idn/search/granules/granule-details	21	1038	307
/portal/idn/downloads	83	1357	997
/portal/idn/preferences	5	36	25
/portal/idn/contact_info	2	29	24
/portal/idn/subscriptions	1	18	19
/portal/idn/search/granules/subscriptions	4	33	9

Draft MMT Usage

(March 1, 2023 to August 31, 2023)
(<https://draftmmt.earthdata.nasa.gov>)

MMT Usage from April 2022 to February 2023.

User	Unique Login	Total Logins
Metadata Authors	22	68

Break down of Drafts created, submitted, and approved.

	Created	Submitted	Approved
New Draft Proposals	61	55	54
Update Collections	153	153	141

Draft MMT will only save unsubmitted collection metadata for 30 days.

Thank You

Any Questions?



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Websites:

<https://idn.ceos.org/>
<https://search.earthdata.nasa.gov/search?portal=idn>
<https://gcmd.earthdata.nasa.gov/KeywordViewer>

Acronyms

API	Application Programming Interface
CEOS	Committee on Earth Observation Satellites
CMR	Common Metadata Repository
CNES	National Centre for Space Studies
CWIC	CEOS WGISS Integrated Catalog
EDSC	Earthdata Search Client
ESA	European Space Agency
FedEO	Federated Earth Observation
GCMD	Global Change Master Directory

GCOM-W1	Global Change Observation Mission 1st-Water
JAXA	Japan Aerospace Exploration Agency
KMS	Keyword Management System
MMT	Metadata Management Tool
NCEI	National Centers for Environmental Information
NOAA	National Oceanic and Atmospheric Administration
NASA	National Aeronautics and Space Administration
UMM	Unified Metadata Models
WGISS	Working Group on Information Systems and Services



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A satellite image of a hurricane, showing a well-defined eye and spiral cloud bands, is the background of the slide. The image is in grayscale, with the clouds appearing in various shades of gray against a darker background. The text "Background Slides" is centered over the hurricane's eye area.

Background Slides



Useful Links

International Directory Network (IDN)

<https://idn.ceos.org/>

International Directory Network (IDN) Search Portal

<https://search.earthdata.nasa.gov/portal/idn/search>

EarthData Login

<https://urs.earthdata.nasa.gov/home>

Draft MMT

<https://draftmmt.earthdata.nasa.gov/>

Draft Metadata Management Tool (dMMT) User's Guide

<https://wiki.earthdata.nasa.gov/display/CMR/Draft+Metadata+Management+Tool+%28dMMT%29+User%27s+Guide>

Useful Links (continue)

GCMD Keywords

<https://earthdata.nasa.gov/earth-observation-data/find-data/gcmd/gcmd-keywords>

GCMD Keyword Viewer

<https://gcmd.earthdata.nasa.gov/KeywordViewer/>

New KMS URLs

GET Capabilities

<https://gcmd.earthdata.nasa.gov/kms/>

All Science Keyword in CSV format

https://gcmd.earthdata.nasa.gov/kms/concepts/concept_scheme/sciencekeywords?case=native&format=csv





Useful Links (continue)

UMM-C, UMM-G, UMM-S, UMM-T, UMM-V Documents

<https://wiki.earthdata.nasa.gov/display/CMR/CMR+Documents>

CMR Collection Metadata Schemas

<https://git.earthdata.nasa.gov/projects/EMFD>

CMR Search API

<https://cmr.earthdata.nasa.gov/search/site/docs/search/api.html>

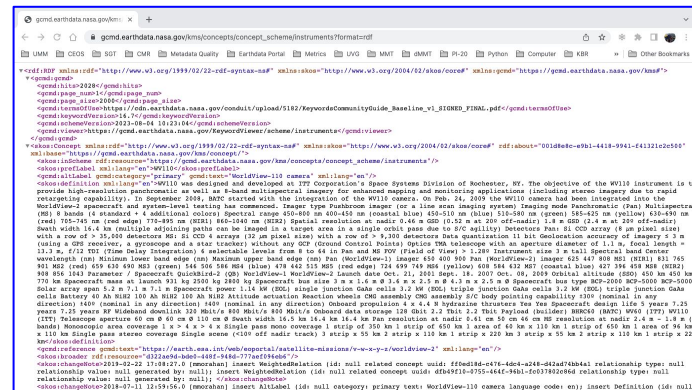
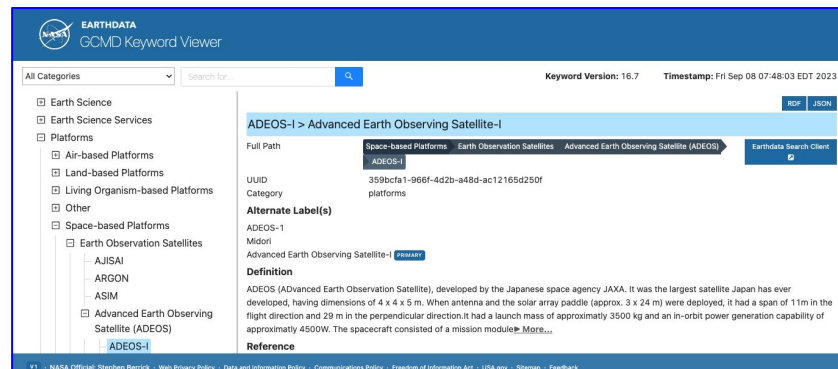
CMR OpenSearch Documentation

<https://cmr.earthdata.nasa.gov/opensearch/home/docs>

All public GCMD Keywords can
reviewed using Keyword Viewer
or KMS API:

- Keyword Viewer:
<https://qcmd.earthdata.nasa.gov/KeywordViewer>

- KMS API: <https://gcmd.earthdata.nasa.gov/kms/>
 - Example:
https://gcmd.earthdata.nasa.gov/kms/concepts/concept_scheme/instruments?format=rdf





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