

# CEOS WGISS Connected Data Assets

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IN31A-03





- **The Committee on Earth Observation Satellites (CEOS) has been serving as a focal point for international coordination of space-related Earth Observation (EO) activities since 1984.**
- **CEOS seeks to optimize benefits through cooperation of members in mission planning and in development of compatible data products, formats, services, applications, and policies.**
- **As the “space arm” of the intergovernmental Group on Earth Observations, CEOS is implementing high priority actions to support delivery of societal benefit.**

## Mission

CEOS ensures international coordination of civil space-based Earth observation programs and promotes exchange of data to optimize societal benefit and inform decision making for securing a prosperous and sustainable future for humankind.



## Working Group on Information Systems and Services.

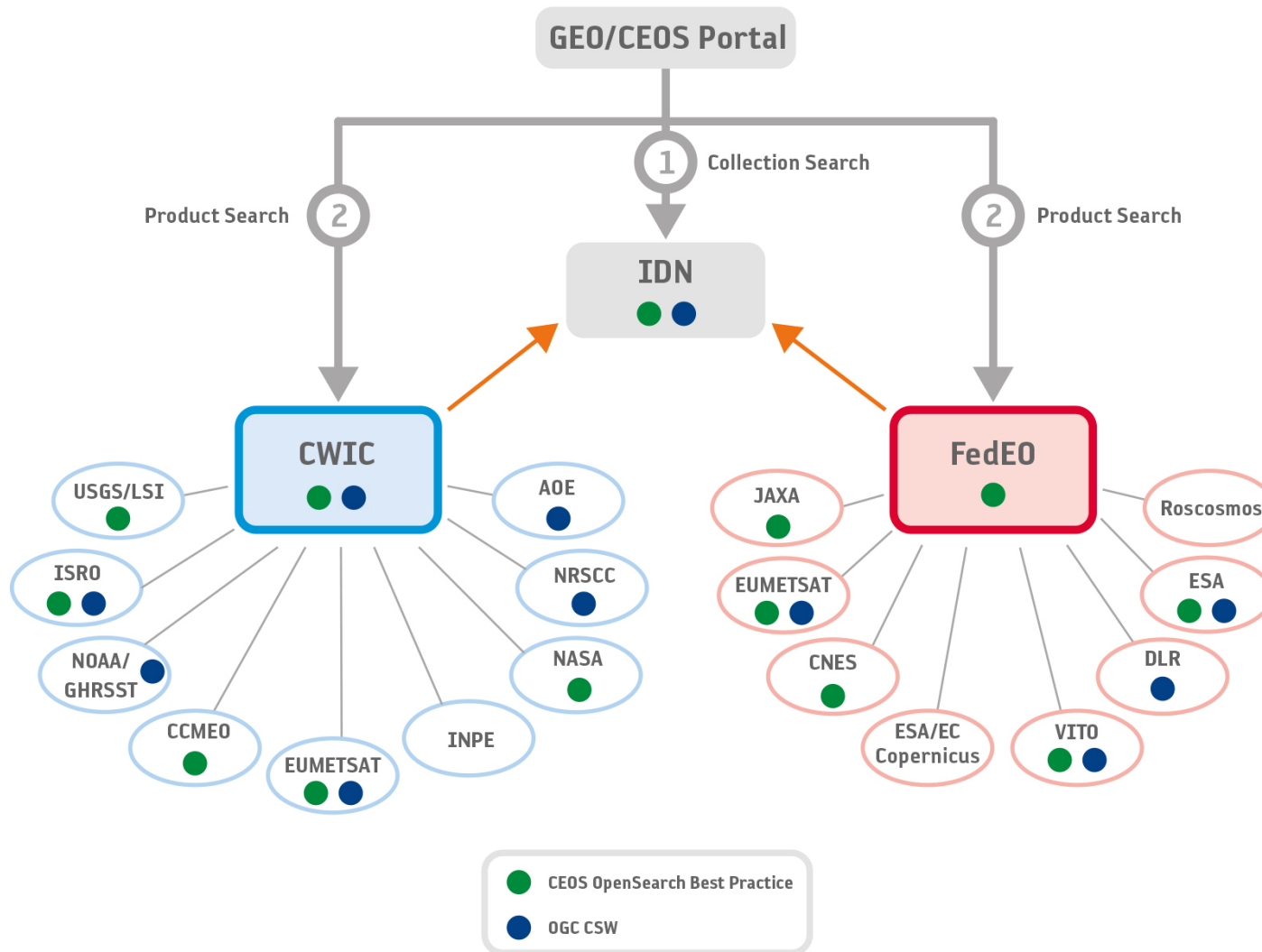
- **WGISS promotes collaboration in the development of systems and services that manage and supply Earth observation data as a working group of CEOS.**
- **The activities and expertise of WGISS span the information life cycle by enabling:**
  - the sharing of CEOS agency investigations, developments, experiences and lessons learned relating to EO data stewardship.
  - the discovery, access, preservation and use of CEOS agency data.
  - the exchange of technical information and lessons-learned about current and trending software technologies and services.

<http://ceos.org/ourwork/workinggroups/wgiss/>



- **WGISS Connected Data Assets (CDA) components:**
  - International Directory Network (IDN)
  - Federated Earth Observation Gateway (FedEO)
  - CEOS WGISS Integrated Catalog (CWIC)
- **WGISS-supported standards used to search and access data from 1000's of collections and 100M's of inventory records**
- **Data collections and inventory records from CEOS Agencies added daily to this integrated system**
- **Provides access to CEOS Agency datasets through integration with the GEOSS (Global Observation System of Systems) Platform and Portal**
- **CEOS Agency participation continues to increase over time**
- **System Level Team coordinates, operates, and evolves the CDA, supporting CEOS agency partners that wish to participate**


<http://ceos.org/ourwork/workinggroups/wgiss/access/>






- **Data collection registration at the IDN using the IDN keywords; Info about how granule search is supported will be included in the data collection registration; Tag for granule access;**
  - The IDN keywords -- keywords for dataset name, platform, instrument, data center, Earth science, ... -- is an actively managed vetted set of keywords
  - Tools available to register collections
- **Data partners need to support the WGISS standard**
  - **CEOS OpenSearch Best Practices (v 2)**
- **All searchable data must have a data access path**
  - Data download
  - Data order (free or with cost)
  - Email order (free or with cost)
- **Servers must have high availability (99%?)**
- **A technical point of contact needed for each data partner**



 EARTHDATA

 EARTHDATA  
Metadata Management Tool for Non-NASA Users

Agatha Christie ▾

Enter Search Term   ▾

MANAGE COLLECTIONS      MANAGE SERVICES

### Create New Draft Proposal

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OR use the [search](#) in the top right corner to find published collections to clone or request an edit.

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### Pending Draft Proposals

2019-01-02		<a href="#">EK_004</a>		<Submitted>
2019-02-28		<a href="#">EK_007</a>		<In Work>
Date		Title		<Status>
Date		Title		<Status>
Date		Title		<Status>



**EARTHDATA**

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Collection Draft Proposals New

Collection Information

MANAGE COLLECTIONS      MANAGE SERVICES

Save & Jump To:

ⓘ Indicates required field

ⓘ **Collection Information**

ⓘ Short Name ⓘ

ⓘ Version ⓘ

ⓘ Version Description ⓘ

ⓘ Entry Title ⓘ

ⓘ DOI ⓘ


- DOI Available  
 DOI Not Available


ⓘ Missing Reason ⓘ

Select Missing Reason

ⓘ Explanation ⓘ




Agatha Christie ▾


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Metadata Management Tool for Non-NASA Users

Collections ● EK-007\_1

## EK-007\_1

AIRS/Aqua L3 5-day Quantization in Physical Units (AIRS+AMSU) 5 degrees x 5 degrees V006 (AIRX3QP5) at GES DISC V006

MANAGE COLLECTIONS
MANAGE SERVICES

[Download](#)

[Revisions \(1\)](#) | 
 [Granules \(1\)](#) | 
 [Edit Collection Request](#) | 
 [Clone Collection](#) | 
 [Delete Collection Request](#)

### Abstract

The Atmospheric Infrared Sounder (AIRS) is a grating spectrometer (R = 1200) aboard the second Earth Observing System (EOS) polar-orbiting platform, EOS Aqua. In combination with the Advanced Microwave Sounding Unit (AMSU) and the Humidity Sounder for Brazil (HSB), AIRS constitutes an innovative atmospheric sounding group of visible, infrared, and microwave sensors. The quantization products (QP) are distributional summaries derived from the Level-2 standard retrieval products (of swath type) to provide a more comprehensive set of statistical summaries than the traditional means and standard deviation. The QP products combine the Level 2 standard data parameters over grid cells of 5 x 5 deg spatial extent for temporal periods of five days from -180.0 to +180.0 deg longitude and from -90.0 to +90.0 deg latitude. For each grid map of 4-byte floating-point mean values there is a corresponding 4-byte floating-point map of standard deviation and a 2-byte integer grid map of counts. The counts map provides the user with the number of points per bin that were included in the mean and can be used to generate custom multi-day maps from the daily gridded products. The thermodynamic parameters are: Skin Temperature (land and sea surface), Air Temperature at the surface, Profiles of Air Temperature and Water Vapor, Tropopause Characteristics, Column Precipitable Water, Cloud Amount/Frequency, Cloud Height, Cloud Top Pressure, Cloud Top Temperature, Reflectance, Emissivity, Surface Pressure, Cloud Vertical Distribution. The trace gases parameters are: Total Amounts and Vertical Profiles of


### DOI

doi:10.5067/Aqua/AIRS/DATA331

### Data Identification Fields:



### Data Dates



### Spatial Coordinates

Bounding Rectangle

N: 90.0
S: -90.0
E: 180.0
W: -180.0

### Temporal Coverages

Date/Time Ranges

2002-09-01 to 2016-09-26



**Table of all data partners who offer data to WGISS**

**<http://ceos.org/wgiss-connected-data-assets-status/>**

- Each data partner
- Status types: Development; Operational (Up, Down)

**Metrics Page for data partners**

**<http://ceos.org/ourwork/workinggroups/wgiss/connected-data-assets/>**

- Discoverable collections (via IDN) – over 33,000+
  - Over 15,000+ GEOSS Data Core
- Searchable Granules – over 246+ million (more added daily from live missions)



- **WGISS Client Partner Guide – Details how to search for collection and granule data at IDN, CWIC, and FedEO.**
  - How to search for CEOS data collections/granules
  - How to search for CWIC data; FedEO data;
  - How to search for GEOSS tagged collections
- **Clients can offer search and access to all or limited subset of data available through the WGISS Federation along with other services through tagging (e.g. CWIC, FedEO, LSI, Carbon,...)**
- **Clients can offer support for a 2-step search**
  - **Discovery through collection search using platform, instrument, science keywords, etc. (IDN). The IDN data record will contain info about how granule search is supported**
  - **Search granule metadata at data partners via CWIC, FedEO, Independent servers**
- **All granule search results will contain links to data access**

# New CEOS IDN Client

**EARTHDATA** Find a DAAC

**CEOS IDN Search**

Type any topic, collection, or place name

32,668 Matching Collections

Sort by: Relevance  Only include collections with granules  Include non-EOSDIS collections

Tip: Add + collections to your project to compare and download their data.

**GHRSSST Level 2P OSPO dataset v2.61 from VIIRS on the NOAA-20 satellite (GDS v2) (GDS version 2)**

Int'l / Interagency • 2018-11-07 ongoing • NOAA-20 (N20/JPSS-1/J1) is the second satellite in the US NOAA latest generation Joint Polar Satellite System (JPSS). N20 was launched on November 18, 2017. In conjunction with the first US satellite in JPSS series, Suomi National Polar-orbiting Partnership (S-NPP) satellite laun...

CWIC 10.25921/sfs7-9688 v2.61 - DOC/NOAA/NESDIS/NCEI

**GHRSSST Level 2P Atlantic Regional Skin Sea Surface Temperature from the Spinning Enhanced Visible and InfraRed Imager (SEVIRI) on the Meteosat Second Generation (MSG-3) satellite (GDS version 2)**

Int'l / Interagency • 2013-08-01 to 2018-02-20 • The Meteosat Second Generation (MSG-3) satellites are spin stabilized geostationary satellites operated by the

v 1.101.0 • Search Time: 2.3s • NASA Official: Stephen Berrick • FOIA • NASA Privacy Policy • USA.gov

Earthdata Access: A Section 508 accessible alternative

# CEOS IDN Client: Search by Facets

The screenshot displays the CEOS IDN Client search interface. At the top, the NASA Earthdata logo is visible, along with a search bar containing the text "Type any topic, collection, or place name". To the right of the search bar are buttons for "Show Tour" and "Earthdata Login".

On the left side, there is a navigation menu with the following items: "Browse Collections", "Features", "Keywords", "Platforms", "Instruments", "Organizations", "Projects", and "Processing levels".

The main content area shows a map of the Middle East and Southeast Asia. A "Facets" overlay is displayed in the center, listing various search criteria:

- Features** - has map imagery, is near-real-time, or is subsettable
- Keywords** - science terms describing collections
- Platforms** - satellite, aircraft, etc. hosting Instruments
- Instruments** - devices that make measurements
- Organizations** - responsible for archiving and/or producing data
- Projects** - mission or science project
- Processing Levels** - raw, geophysical variables, grid, or model

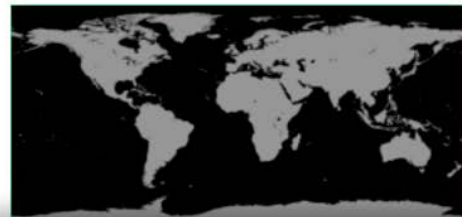
Below the facets list, there are buttons for "End Tour", "Do not show again", "Prev", and "Next".

At the bottom of the interface, there is a search result for "GHRSSST Level 2P Atlantic Regional Skin Sea Surface Temperature from the Spinning Enhanced Visible and InfraRed Imager (SEVIRI) on the Meteosat Second Generation (MSG-3) satellite (GDS version 2)". The result includes a thumbnail image of the Earth and a description: "Int'l / Interagency • 2013-08-01 to 2018-02-20 • The Meteosat Second Generation (MSG-3) satellites are spin stabilized geostationary satellites operated by the".

The footer of the page contains the following information: "v 1.101.0 • Search Time: 2.4s • NASA Official: Stephen Berrick • FOIA • NASA Privacy Policy • USA.gov" and "Earthdata Access: A Section 508 accessible alternative".



IRS 1C LIS3 Standard Products 1C\_LIS3\_STUC00GTD VERSION 1.0



Related URLs:  
[View All Related URLs](#) | [View More Info](#)

Temporal Extent:  
**1996-11-14 to 2007-09-20**

GIBS Imagery Projection Availability:  
**None**

- Science Keywords:
- EARTH SCIENCE LAND SURFACE SURFACE RADIATIVE PROPERTIES
  - EARTH SCIENCE LAND SURFACE EROSION/SEDIMENTATION
  - EARTH SCIENCE LAND SURFACE GEOMORPHIC LANDFORMS/PROCESSES

MONTH

IRS 1C LIS3 Standard Products



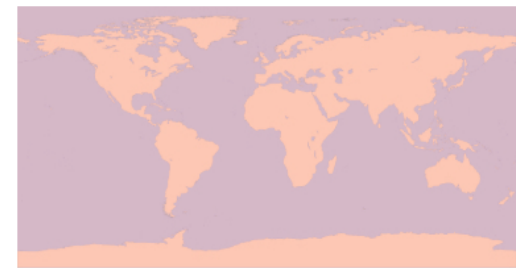
Short Name: 1C\_LIS3\_STUC00GTD

## IRS 1C LIS3 Standard Products

The medium resolution multi-spectral sensor, LISS-3 operates in four spectral bands - B2, B3, B4 in visible near infrared (VNIR) and B5 in Short Wave Infrared (SWIR) providing data with 23.5m resolution. Standard products are full scene (path-row) based geo-referenced as well as geo-orthokit products.

- Overview
- Download Data
- Citing These Data
- Documentation
- Additional Information

<b>Science Keywords:</b>	EARTH SCIENCE LAND SURFACE SURFACE RADIATIVE PROPERTIES REFLECTANCE		
	EARTH SCIENCE LAND SURFACE EROSION/SEDIMENTATION LANDSLIDES		
	EARTH SCIENCE LAND SURFACE EROSION/SEDIMENTATION SEDIMENTS		
	<a href="#">Show More</a>		
<b>Spatial Extent:</b>	Bounding Rectangle: N: 90.0 S: -90.0 E: 180.0 W: -180.0	<b>Data Format(s):</b>	Distribution: TIFF
<b>Temporal Extent:</b>	1996-11-14 to 2007-09-20	<b>Platform(s):</b>	IRS-1C
<b>Data Center(s):</b>	IN/ISRO/NDC	<b>Instrument(s):</b>	OPS
<b>Version:</b>	1.0		






EARTHDATA
Find a DAAC ▾

IRS 1C LIS3 Standard Product
Earthdata Login

Rectangle: SW: 7.499816894531251,10 NE: 24.71209716796875,11



Back to Collections

### IRS 1C LIS3 Standard Products [View details](#)

This is ● **Int'l / Interagency Data** data. Searches will be performed by external services which may vary in performance and available features. [More details](#)


[Granule filters](#)

Showing 20 of 3,033 matching granules
Search Time: 5.3s

STUC00GTD_1C_LIS3_x_122_56_x_04-JAN-1997_PLD_SAN <span style="color: green; font-weight: bold;">START</span> 1997-01-04 00:00:00	STUC00GTD_1C_LIS3_x_122_57_x_04-JAN-1997_PLD_SAN <span style="color: green; font-weight: bold;">START</span> 1997-01-04 00:00:00	STUC00GTD_1C_LIS3_x_122_58_x_04-JAN-1997_PLD_SAN <span style="color: green; font-weight: bold;">START</span> 1997-01-04 00:00:00	STUC00GTD_1C_LIS3_x_122_59_x_04-JAN-1997_PLD_SAN <span style="color: green; font-weight: bold;">START</span> 1997-01-04 00:00:00
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MONTH

IRS 1C LIS3 Standard Products



v 1.101.0 • Search Time: 0.9s • NASA Official: Stephen Berrick • FOIA • NASA Privacy Policy • USA.gov
 Earthdata Access: A Section 508 accessible alternative



- **CEOS branding across diverse components from multiple agencies**
- **Harvesting metadata leads to stale metadata**
- **Will outdated data ever get replaced or removed?**
- **Multiple paths to get to one data collection; Even more paths to get to multiple copies/versions of the data.**
- **How will user know which version of the data is the most recent or “the best”?**
- **Discovering and understanding services across agencies**
- **Interoperable and discoverable data services:**
  - **Discover and compare Analysis Ready Data Products**
  - **Discover and compare analytic services**