



AOMSUC-15 2025 FYSUC

THE 15TH ASIA-OCEANIA METEOROLOGICAL SATELLITE USERS' CONFERENCE (AOMSUC-15)
2025 FENGYUN SATELLITE USER CONFERENCE (2025 FYSUC)

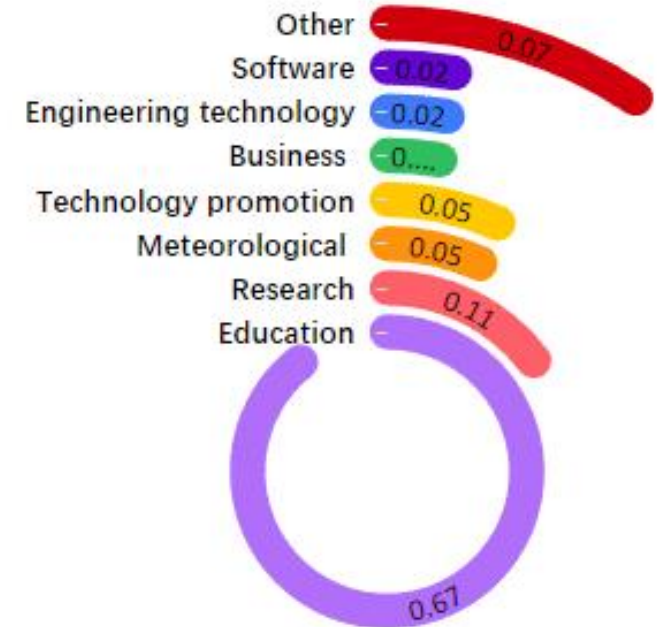
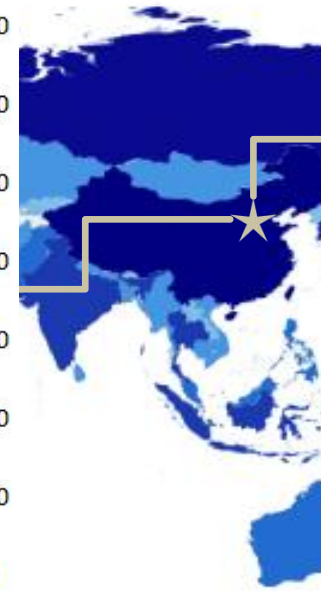
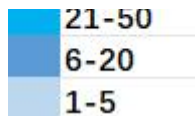
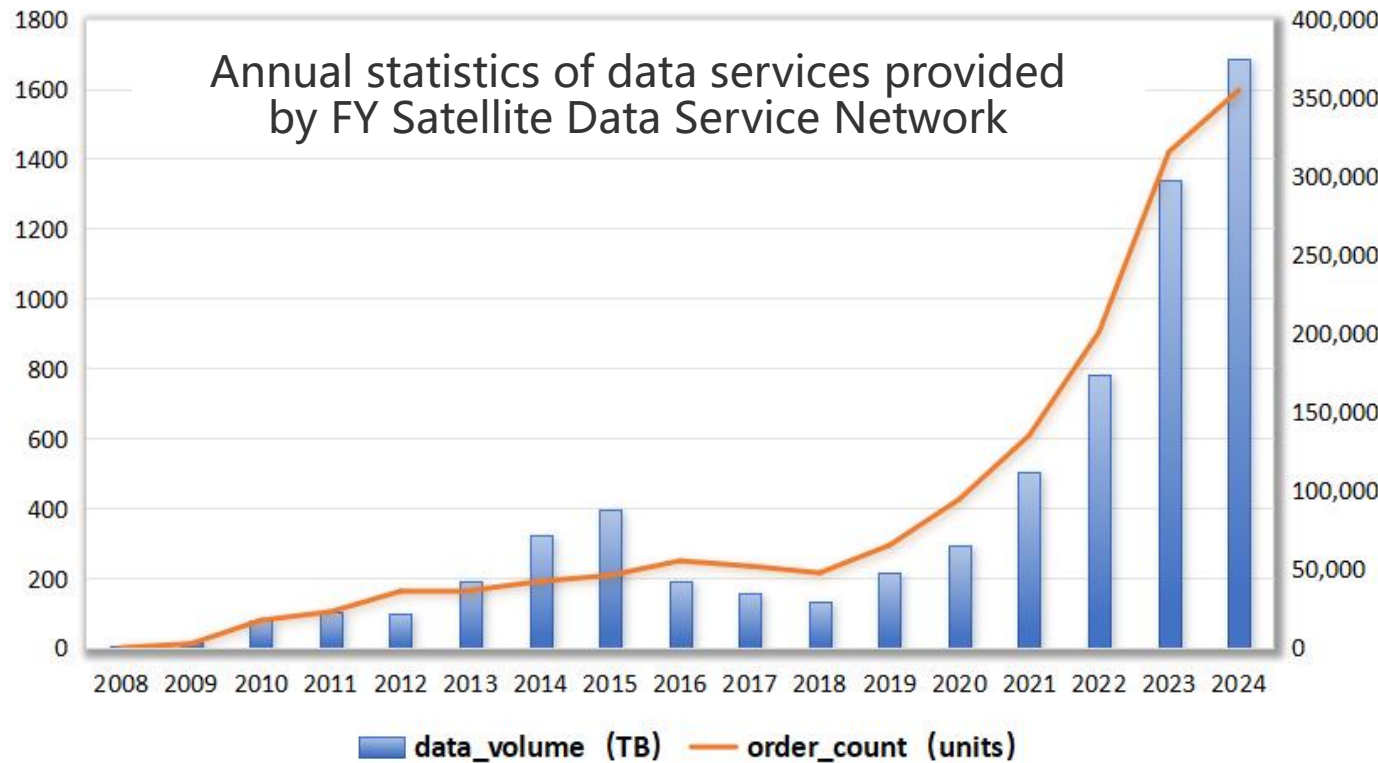
New-Generation FY Satellite Data Service System

Xiaowei Wang NSMC/CMA



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INTRODUCTION



44 PB cumulative archived data since 2008



174,000 + registered users from **133** countries

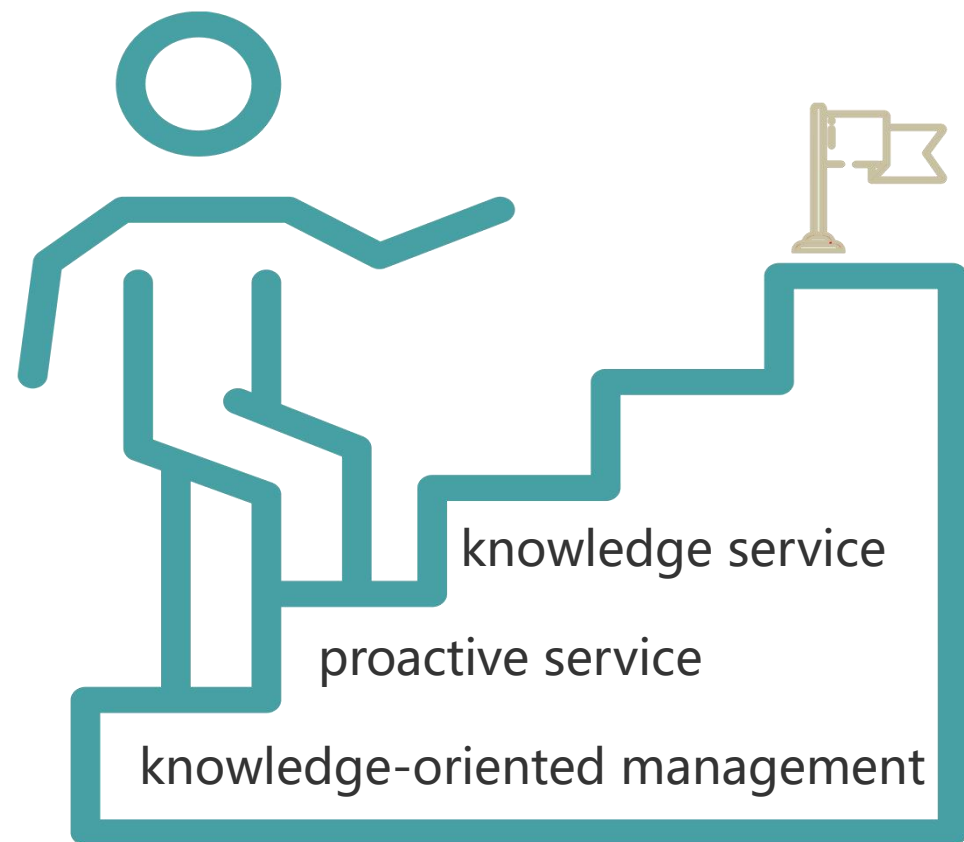
20,000+ new users in 2024

Executive summary of the WP

G^OAL!

New-generation FY Satellite Data Service System

- 1 Advanced Technology Application
- 2 Ultra-Intelligent User-Friendly Interaction
- 3 More Efficient & Convenient
- 4 Meticulous Service



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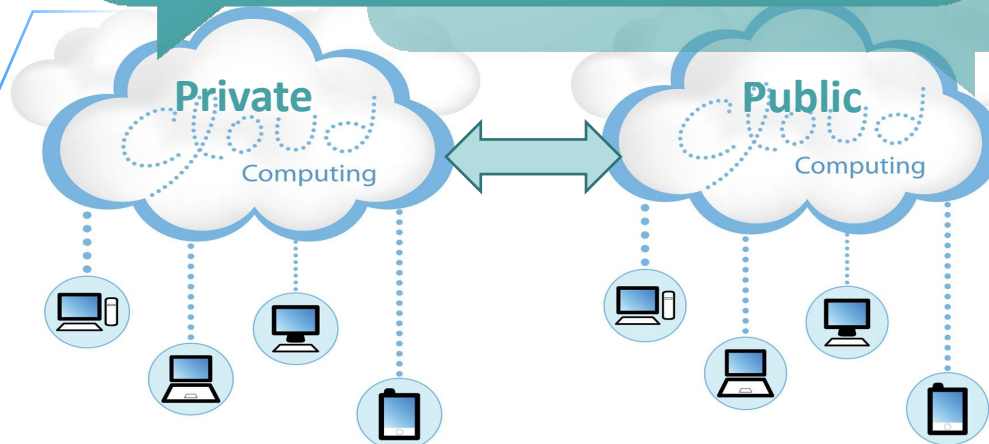
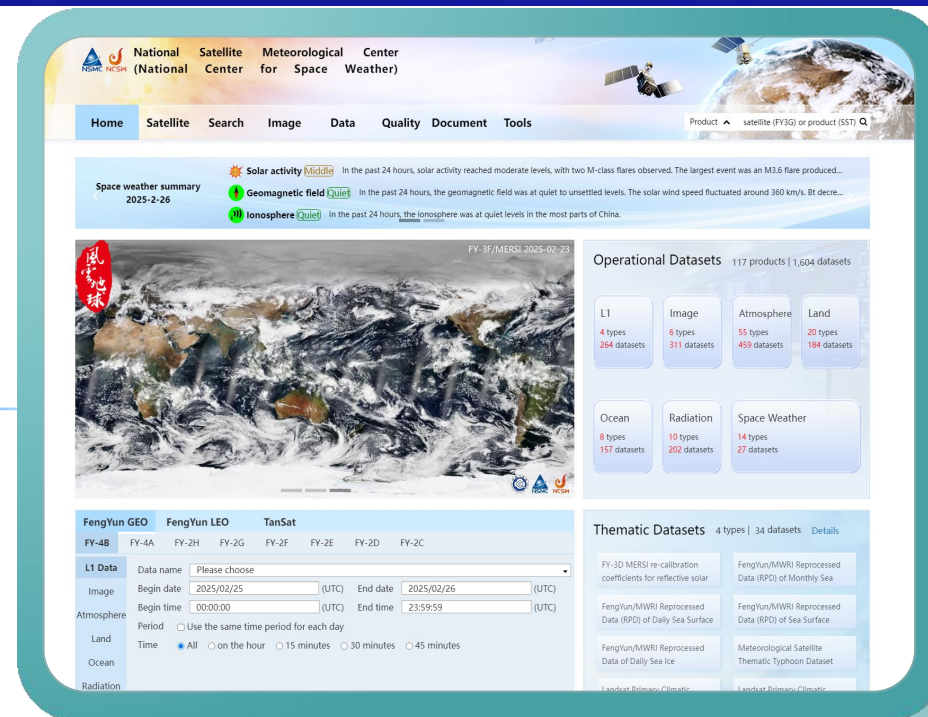
System Overview

Technological
Upgrades

Functional
Expansions

Management
Enhancements

Experience
Optimization



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System Overview

FENGYUN Satellite Data Service



National Satellite Meteorological Center
(National Center for Space Weather)

Navigation Bar

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- shopping cart
- my orders
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<https://data.nsmc.org.cn>

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Tools

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- Auxiliary data
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- Ground system
- Spectral response functions
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- Softwares
- Mobile apps
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New-added
Optimized
Revised



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Service Approach: Proactive Service

File Name	Product	Time	Size	Link
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_015V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:20:55 (UTC)	8.16 MB	Download
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_013V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:20:34 (UTC)	8.22 MB	Download
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_012V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:20:23 (UTC)	8.15 MB	Download
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_011V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:20:13 (UTC)	8.10 MB	Download
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_010V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:20:03 (UTC)	8.12 MB	Download
<input checked="" type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_009V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:19:52 (UTC)	8.14 MB	Download
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_005V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:19:11 (UTC)	8.21 MB	Download
<input type="checkbox"/> FY4B-GIIRS-N_REGC_1050E_L1-IRD-_MULT_NUL_20250310021828_2025031002233_6_012KM_001V1.HDF	FY-4B GIIRS L1 data (China Regional)	2025-03-10 02:19:00 (UTC)	8.19 MB	Download

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In total 683 pages, 6,827 files, 197.47 GB. You have ordered 0 Bytes data today. The current shopping car data volume is 70.19 GB

FENGYUN Satellite Data Service

National Satellite Meteorological Center (National Center for Space Weather)

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Introduction

AGRI Cloud Top Height (Full Disk)

Description

Cloud top height refers to the height of the cloud top, the unit is m. Using two infrared windows and one CO2 absorption channel of AGRI, combined with numerical prediction data, through iterative calculation of optimal estimation, areal-time product of cloud top height of the whole disk is generated. The product can further improve macro-quantitative understanding of cloud, and deepen the understanding of cloud climate interaction and global water cycle.

Purpose

The product can be used for research and business needs in short-term weather forecasting, climate prediction, and cloud radiative forcing.

Top 5 Products

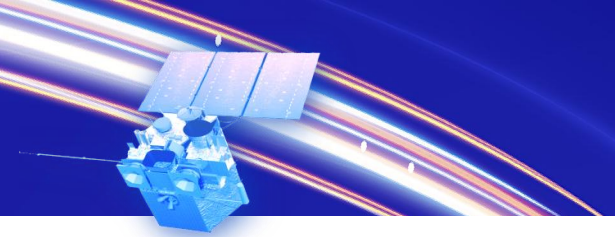
- FY-4A AGRI L1 data (Full Disk/4KM)
- FY-4A AGRI L1 data (China Regional/4KM)
- FY-4A GIIRS L1 data (Infrared/Regional)
- FY-4B AGRI L1 data (Full Disk/4KM)
- LMI Event In One Minute

Direct download of cloud data

DMZ & Public Cloud Download Speed Test

Recommendation for Popular

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Service Approach: Proactive Service

Release Fengyun Satellite Data Download Client V2.0



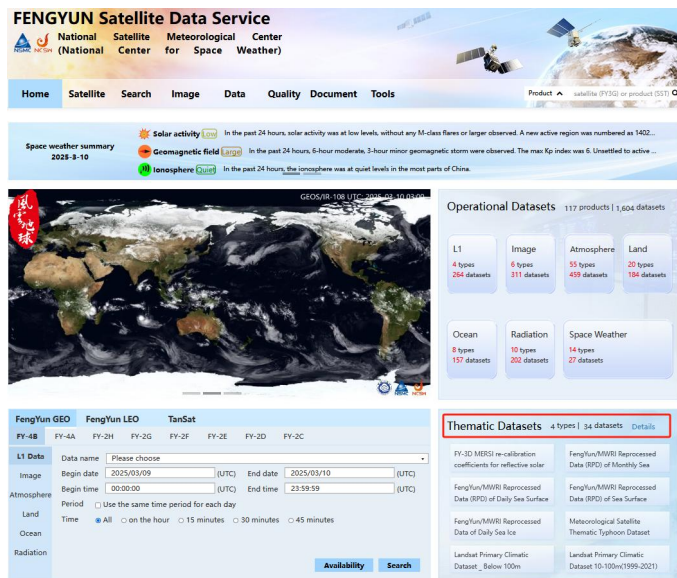
Data Search

scheduled download

Break-point Continuation
Download Monitor

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Service Approach: Thematic Service



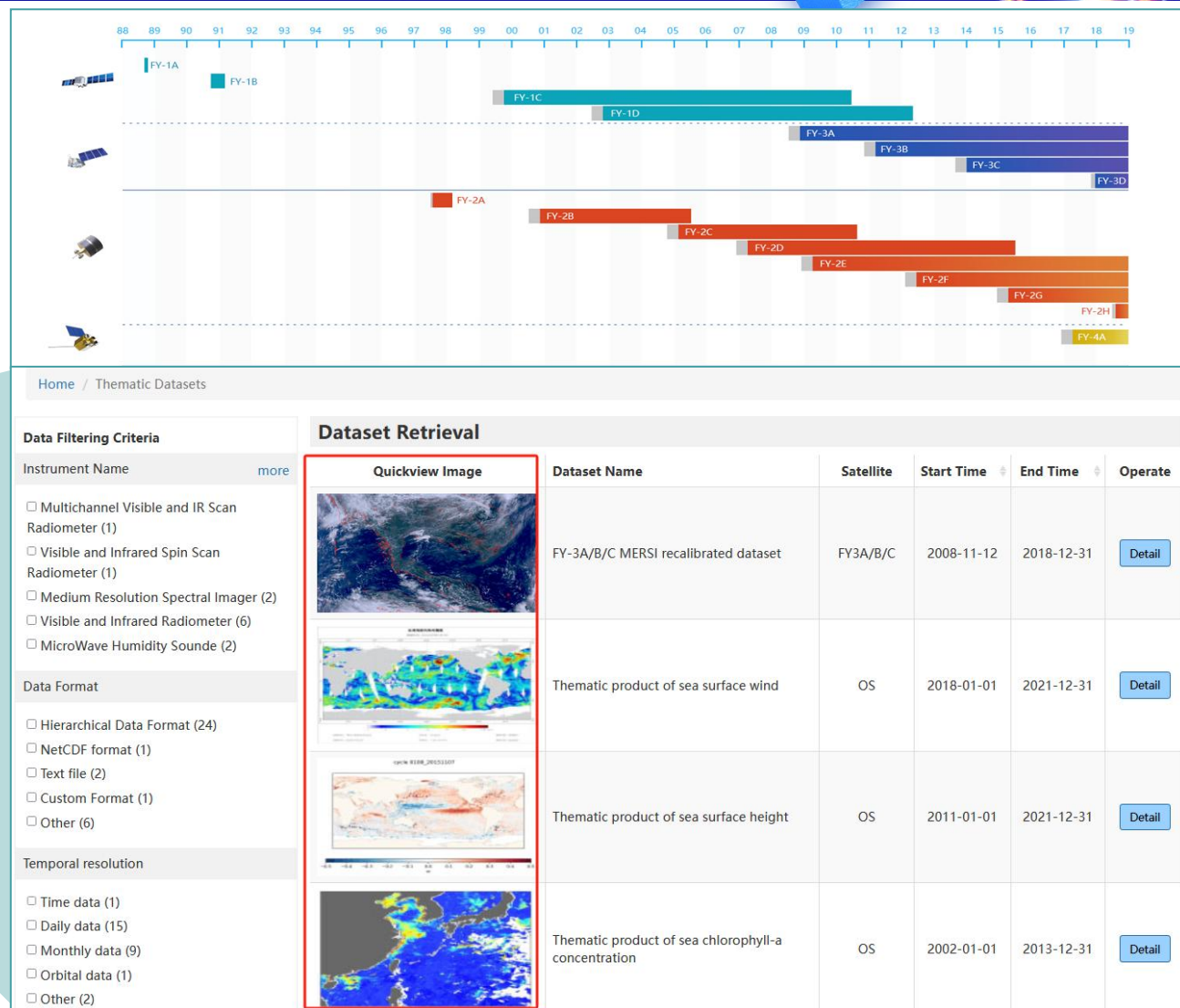
34 types of thematic datasets



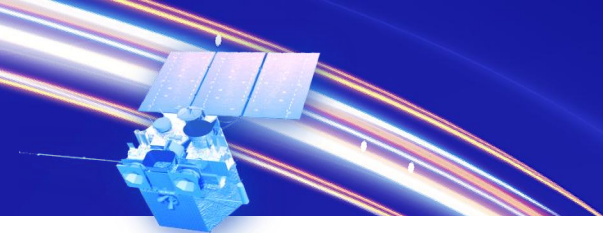
Typhoon dataset



Over 30 years of historical data



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Service Approach: Knowledge Service

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Data Format

Spectral Response Functions

Other Documents

Search Document

Search Document

Search Document

name of document

Normal Search

Name

or

Name

Advanced Search

There are 56 results found about "".

Name	Link
FY-3 data preprocessing software packages	Details
FY-2C/D/E S-VISSR DATA TRANSMISSION	
FY-2 HDF5.0 File Format Specification Version 3.0(406.1KB)	
SMART	
AWX File Format Specification Version 2.1(1.3MB)	
FY-2 CSV File Format Specification Version 2.0(438.4KB)	
FY-2 U to LatLon lookup table(NOM data)	Details
FY-3 Satellites to Ground Interface Control Document	
FY-3D Satellites to Ground Interface Control Document	
Spectral responding function of VISSR on FY-2 satellites	

Showing 1 to 10 of 56 rows

10 rows per page

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Product Category Catalogue

Product catalogue

Search Product

Satellite Product Catalogue

Search Product

satellite or product

Normal Search

Product

or

Product

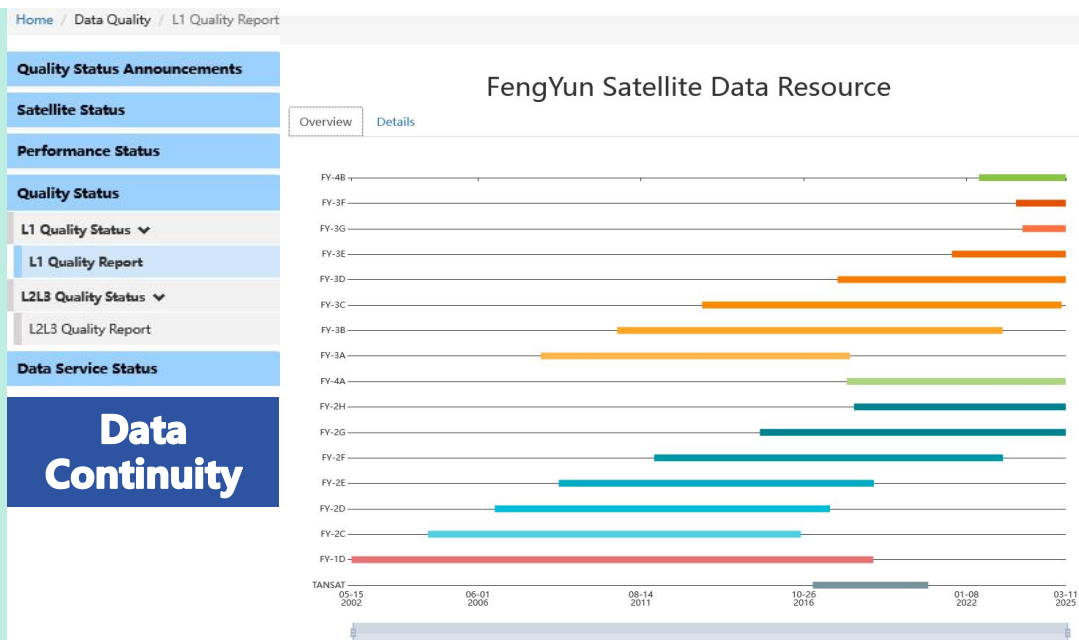
Advanced Search

There are 1604 results found about "".

Save results to file

Name	Satellite	Instrument	Format	Resolution	Start Date	Last Date	No. Files	Total Size
FY-4B AGRI L1 data (Full Disk/500M)	FY4B	AGRI	HDF	500M	2022-06-01	2025-03-11	91,543	30.84 TB
FY-4B AGRI L1 data (Full Disk/1KM)	FY4B	AGRI	HDF	1000M	2022-06-01	2025-03-11	91,550	23.09 TB
FY-4B AGRI L1 data (Full Disk/2KM)	FY4B	AGRI	HDF	2000M	2022-06-01	2025-03-11	91,536	15.32 TB
FY-4B AGRI L1 data (Full Disk/4KM)	FY4B	AGRI	HDF	4000M	2022-06-01	2025-03-11	91,550	8.19 TB
FY-4B AGRI GEO data (Full Disk/4KM)	FY4B	AGRI	HDF	4000M	2022-06-01	2025-03-11	91,543	7.26 TB
FY-4B GHI L1 data (Regional/250M)	FY4B	GHI	HDF	250M	2022-06-01	2025-03-11	882,479	35.32 TB
FY-4B GHI L1 data (Regional/500M)	FY4B	GHI	HDF	500M	2022-06-01	2025-03-11	882,431	51.36 TB
FY-4B GHI L1 data (Regional/2KM)	FY4B	GHI	HDF	2000M	2022-06-01	2025-03-11	880,778	4.22 TB
FY-4B GHI GEO data (Regional/2KM)	FY4B	GHI	HDF	2000M	2022-06-01	2025-03-11	882,349	11.52 TB
FY-4B GIIRS L1 data (China Regional)	FY4B	GIIRS	HDF	12KM	2022-06-29	2025-03-11	3,362,673	25.66 TB
AGRI Outgoing Longwave Radiation (Full Disk/NOM)	FY4B	AGRI	NC	4000M	2022-06-01	2025-03-11	91,420	339.53 GB
AGRI Cloud Particles Daytime Image	FY4B	AGRI	JPG	4000M	2022-06-01	2025-03-11	91,425	41.23 GB

Centralized publication and integrated services



L1 Quality Report

Show

25

 entries

Search:

File Name	Date
FY-3G Payload and L1 Product Quality Monthly Report - 2024/12	2025-01-08
FY-3E Payload and L1 Product Quality Monthly Report - 2024/12	2025-01-03
FY-3G Payload and L1 Product Quality Monthly Report - 2024/11	2024-12-03
FY-3E Payload and L1 Product Quality Monthly Report - 2024/11	2024-12-03
FY-3G Payload and L1 Product Quality Monthly Report - 2024/10	2024-11-03
FY-3E Payload and L1 Product Quality Monthly Report - 2024/10	2024-11-03
FY-3G Payload and L1 Product Quality Monthly Report - 2024/09	2024-10-17



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Thanks

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