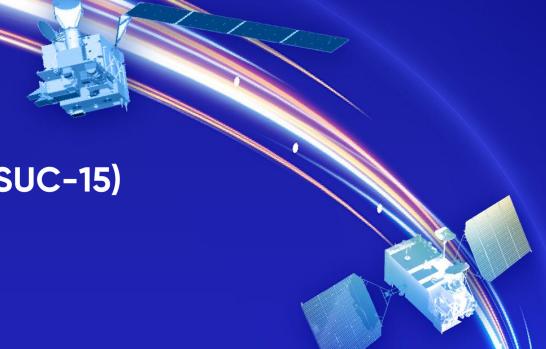




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2025 FENGYUN SATELLITE USER CONFERENCE (2025 FYSUC)



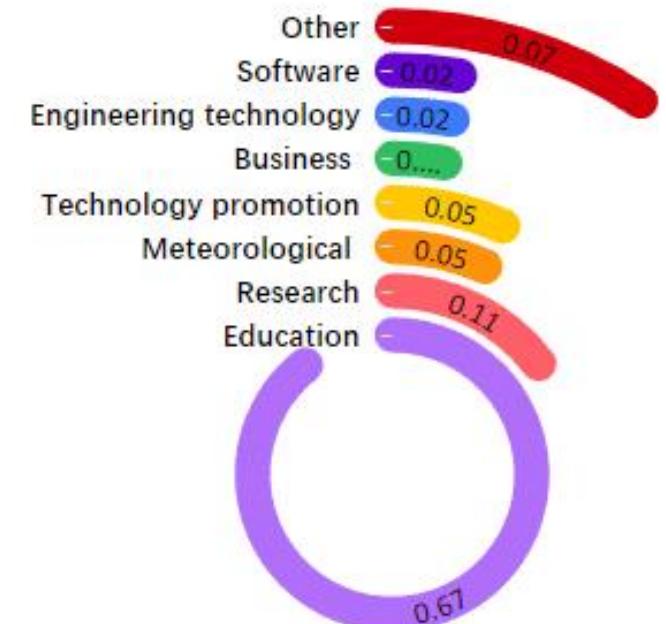
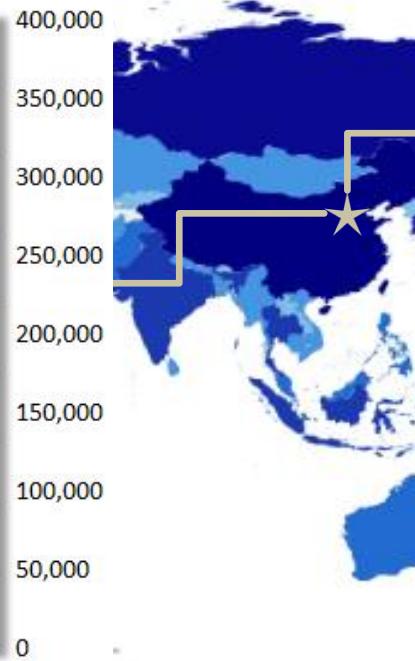
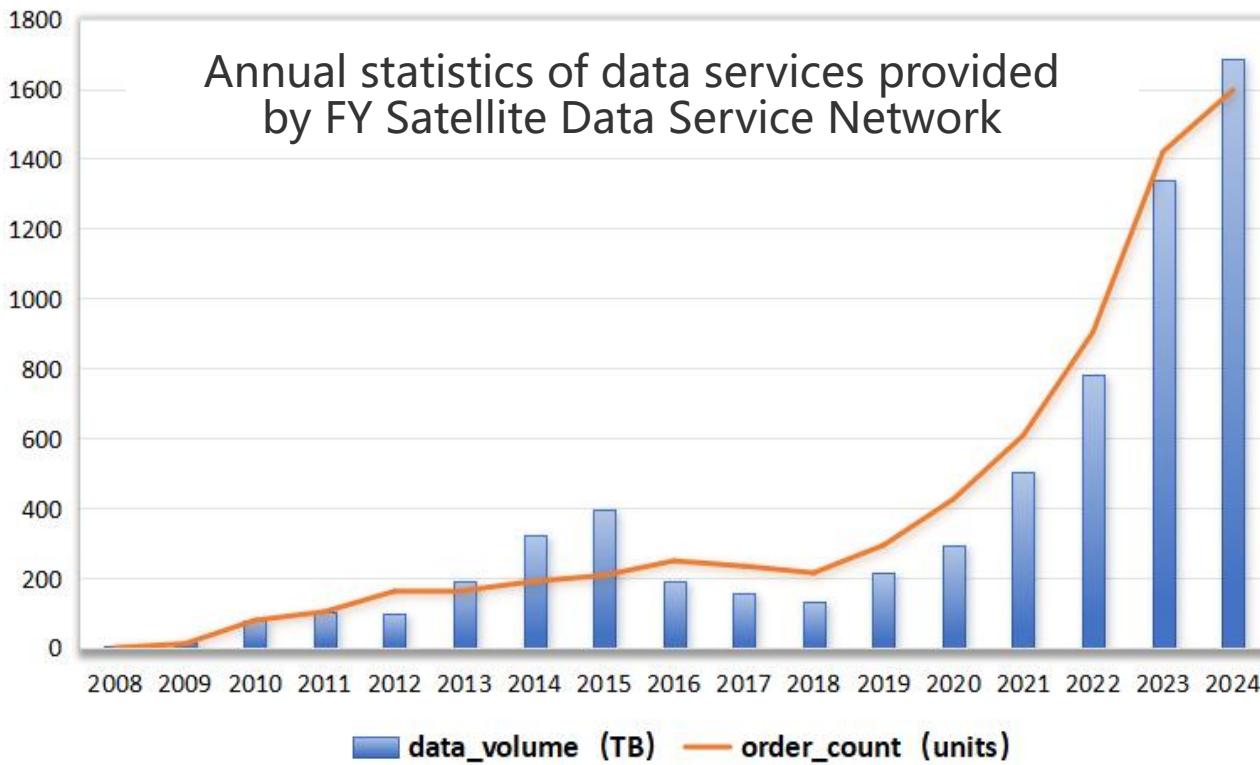
New-Generation FY Satellite Data Service System

Xiaowei Wang NSMC/CMA





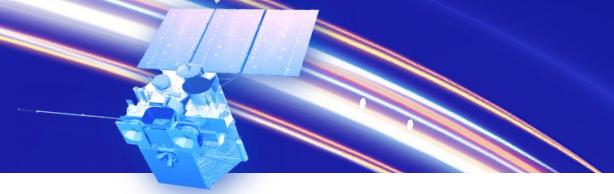
INTRODUCTION



44 PB cumulative archived data since 2008



174,000 + registered users from 133 countries
20,000+ new users in 2024



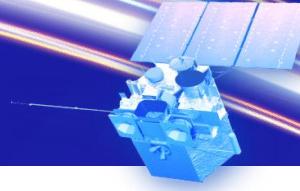
Executive summary of the WP

G^OAL!

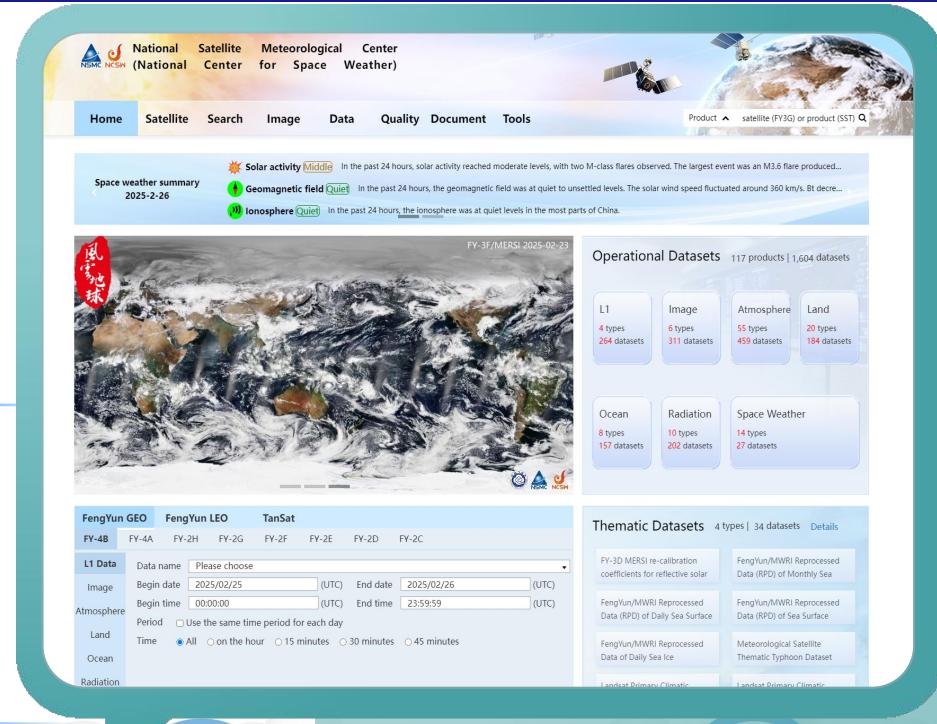
New-generation FY Satellite Data Service System

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





System Overview

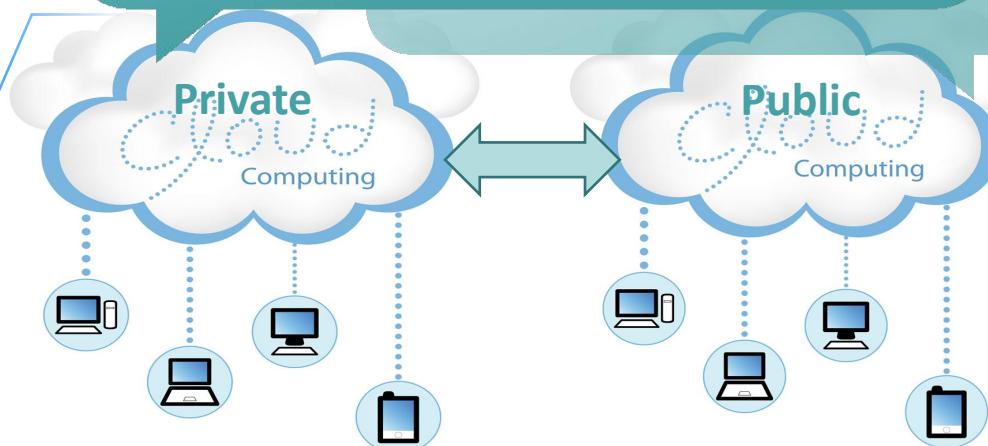


Technological Upgrades

Functional Expansions

Management Enhancements

Experience Optimization





System Overview

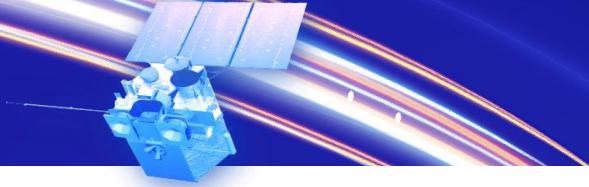


<https://data.nsmc.org.cn>

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Home	Satellite	Search	Image	Data	Quality	Document	Tools
	<ul style="list-style-type: none">satellite statusoperational orbitLEO parameterGEO parameter	<ul style="list-style-type: none">Data overviewData searchLoad criteria	<ul style="list-style-type: none">Latest imageryFY EarthFY-3 global imageryGEO global imageryvideos	<ul style="list-style-type: none">L1 dataImageAtmosphereLandOceanRadiationSpace weatherSearch product	<ul style="list-style-type: none">Announcementssatellite statusperformance statusQuality statusService status	<ul style="list-style-type: none">Data formatAuxiliary dataApplication formsGround systemSpectral response functionsSearch document	<ul style="list-style-type: none">SoftwaresMobile appsPC client

New-added
Optimized
Revised



Service Approach: Proactive Service

File Name	Product	Time	Size	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_015V1.HDF	FY-4B GIIRS	2025-03-10 02:05:55 (UTC)	8.16 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_013V1.HDF	FY-4B GIIRS	2025-03-10 02:03:44 (UTC)	8.22 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_012V1.HDF	FY-4B GIIRS	2025-03-10 02:02:23 (UTC)	8.15 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_011V1.HDF	FY-4B GIIRS	2025-03-10 02:01:13 (UTC)	8.10 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_010V1.HDF	FY-4B GIIRS	2025-03-10 02:00:03 (UTC)	8.12 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_009V1.HDF	FY-4B GIIRS	2025-03-10 02:19:52 (UTC)	8.14 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_005V1.HDF	FY-4B GIIRS	2025-03-10 02:19:11 (UTC)	8.21 MB	Link
FY4B_GIIRS_N_REGC_1050E_L1_IRD-MULT_NUL_20250310021828_20250310022336_012KM_009V1.HDF	FY-4B GIIRS	2025-03-10 02:19:00 (UTC)	8.19 MB	Link

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

FENGYUN Satellite Data Service

National (National) Satellite Center Meteorological Center for Space Weather

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Product

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- It's highly recommended to use [\[Data Service Client\]](#) for downloading the data.

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Send Email to: mby17812085125@163.com

Introduction
AGRI Cloud Top Height (Full Disk)

Description
Cloud top height refers to the height of the cloud top, the unit is m; Using windowed windows and one CO2 absorption channel of AGRI combined with numerical prediction data, through iterative calculation of optimal estimation, area-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.

Info

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



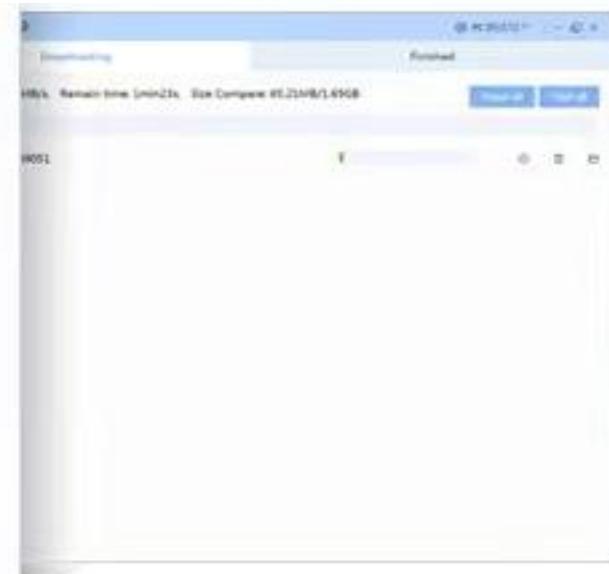
Service Approach: Proactive Service

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

FENGYUN Satellite Data Service
National Satellite Meteorological Center (National Center for Space Weather)

Home Satellite Search Image Data Quality Document Tools

Space weather summary 2025-3-10

Solar activity: Low. In the past 24 hours, solar activity was at low levels, without any M-class flares or larger observed. A new active region was numbered as 1402...

Gromagnetic field: Large. In the past 24 hours, 6-hour moderate, 3-hour minor geomagnetic storm were observed. The max Kp index was 6. Unsettled to active...

Ionosphere: Quiet. In the past 24 hours, the ionosphere was at quiet levels in the most parts of China.

Operational Datasets 117 products | 1,604 datasets

L1 4 types 264 datasets Image 6 types 311 datasets Atmosphere 55 types 459 datasets Land 20 types 184 datasets

Ocean 8 types 157 datasets Radiation 10 types 202 datasets Space Weather 14 types 27 datasets

FengYun GEO FengYun LEO TanSat

FY-4B FY-4A FY-2H FY-2G FY-2F FY-2E FY-2D FY-2C

LT Data

Image

Atmospheric

Land

Ocean

Radiation

Availability Search

Thematic Datasets 4 types | 34 datasets Details

FY-3D MERIS re-calibration coefficients for reflective solar Radiometer (1)

Fengyun/MWIR Reprocessed Data (RPD) of Monthly Sea Surface (1)

Fengyun/MWIR Reprocessed Data (RPD) of Daily Sea Surface (1)

Fengyun/MWIR Reprocessed Data of Daily Sea Ice (1)

Meteorological Satellite Thematic Typhoon Dataset (1)

Landat Primary Climatic Dataset_<100m (1999-2021) (1)

Landat Primary Climatic Dataset_<100m (1999-2021) (1)



34 types of thematic datasets



Typhoon dataset



Over 30 years of historical data

The timeline diagram illustrates the operational periods of various Fengyun satellites from 1988 to 2025. The x-axis represents years from 88 to 19, and the y-axis represents satellite names. FY-1A (1988-1990), FY-1B (1990-1992), FY-1C (1992-1994), FY-1D (1994-1996), FY-2A (1996-1998), FY-2B (1998-2000), FY-2C (2000-2002), FY-2D (2002-2004), FY-2E (2004-2006), FY-2F (2006-2008), FY-2G (2008-2010), FY-2H (2010-2012), FY-3A (2012-2014), FY-3B (2014-2016), FY-3C (2016-2018), and FY-4A (2018-2020).

Home / Thematic Datasets

Data Filtering Criteria

Instrument Name more

- Multichannel Visible and IR Scan Radiometer (1)
- Visible and Infrared Spin Scan Radiometer (1)
- Medium Resolution Spectral Imager (2)
- Visible and Infrared Radiometer (6)
- MicroWave Humidity Sounde (2)

Data Format

- Hierarchical Data Format (24)
- NetCDF format (1)
- Text file (2)
- Custom Format (1)
- Other (6)

Temporal resolution

- Time data (1)
- Daily data (15)
- Monthly data (9)
- Orbital data (1)
- Other (2)

Dataset Retrieval

Quickview Image	Dataset Name	Satellite	Start Time	End Time	Operate
	FY-3A/B/C MERISI recalibrated dataset	FY3A/B/C	2008-11-12	2018-12-31	Detail
	Thematic product of sea surface wind	OS	2018-01-01	2021-12-31	Detail
	Thematic product of sea surface height	OS	2011-01-01	2021-12-31	Detail
	Thematic product of sea chlorophyll-a concentration	OS	2002-01-01	2013-12-31	Detail

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Service Approach: Knowledge Service

Home / Documents

Data Format

Spectral Response Functions

Other Documents

Search Document

Search Document

Document Advanced Search

Search Document

name of document

Normal Search

There are 56 results found about "".

Name

[FY-3 data preprocessing software packages](#)

[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 IJ to LatLon lookup table\(NOM data\)](#)

[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

Pre 1 2 3 4 5 6 Next

Home / Product Catalogue / Search Product

Product Category Catalogue

Product catalogue

Search Product

Satellite Product Catalogue

Search Product

satellite or product

Normal Search

There are 1604 results found about "".

[Save results to file](#)

Name

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

Home / Data Quality / L1 Quality Report

Quality Status Announcements

Satellite Status

Performance Status

Quality Status

[L1 Quality Status](#)

[L1 Quality Report](#)

[L2L3 Quality Status](#)

[L2L3 Quality Report](#)

Data Service Status

Data Continuity

FengYun Satellite Data Resource

TANSAT

05-15 2002 06-01 2006 08-14 2011 10-26 2016 01-08 2022 03-11 2025

L1 Quality Report

Show 25 entries

Search:

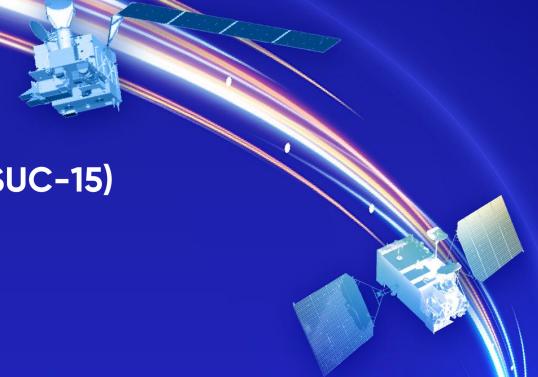
Product Quality

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

iusc_nsmc@cma.cn

