



AOMSUC-15 2025 FYSUC

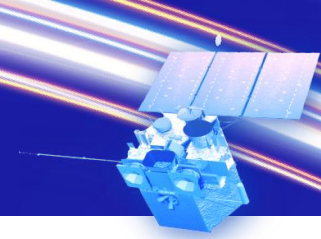
THE 15TH ASIA-OCEANIA METEOROLOGICAL SATELLITE USERS' CONFERENCE (AOMSUC-15)
2025 FENGYUN SATELLITE USER CONFERENCE (2025 FYSUC)

Introduction of FengYun EARTH for Global Monitoring

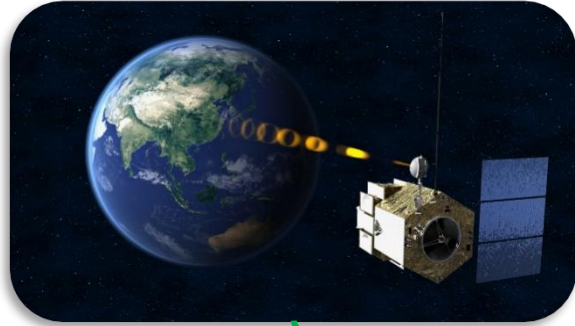
JIA Xu



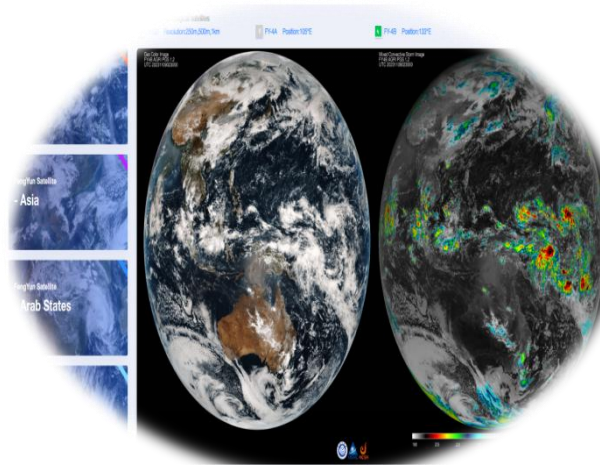
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GEO

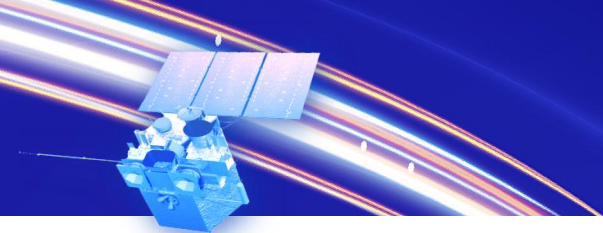


LEO



FengYun Earth

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Comprehensive Cloud Platform

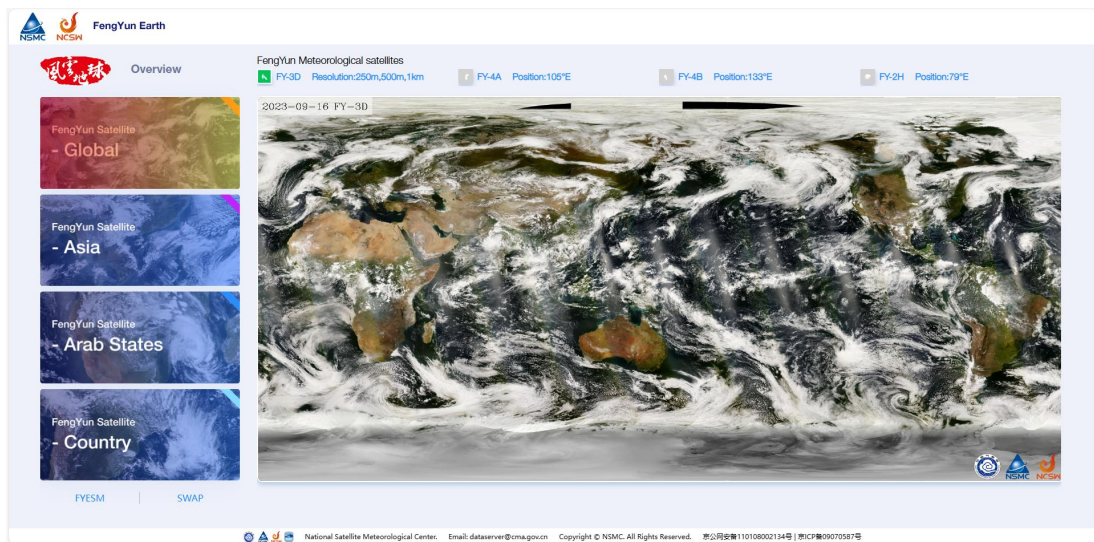
Main User: **Forecaster**

Typical Applications: **Weather Monitoring and Analyzing**

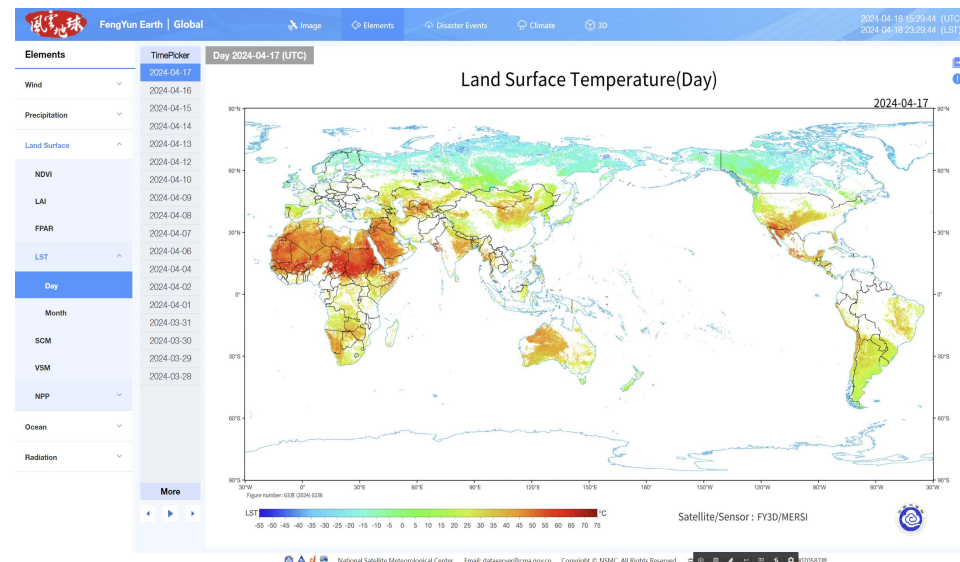
- Build an **integrated meteorological comprehensive product service platform**
- Realize **multi-source, multi-scale, multi-element, multi-form data access**
- Realize **automatic and intelligent processing and analysis of multidimensional data**
- Provide customizable comprehensive meteorological product services by different scale regions.

[Website](http://fyearth.nsmc.org.cn/)

<http://fyearth.nsmc.org.cn/>

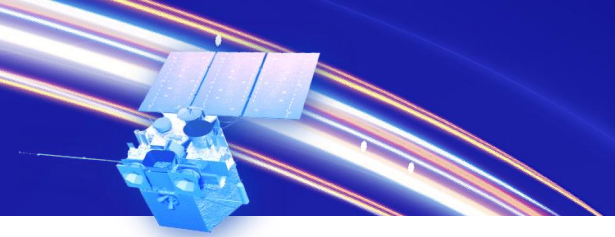


Homepage



Product Page

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TIME VALID

The platform efficiently accesses a wide array of data, allowing for the swift generation of quantitative products and the seamless provision of international services.



SMART

Employing cutting-edge Artificial Intelligence technology, the platform automates the analysis, extraction, and modeling of extensive data sets, enabling the intelligent identification of extreme weather and climate events.



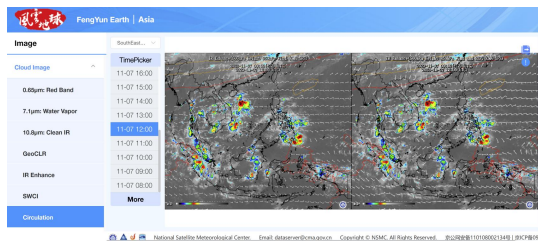
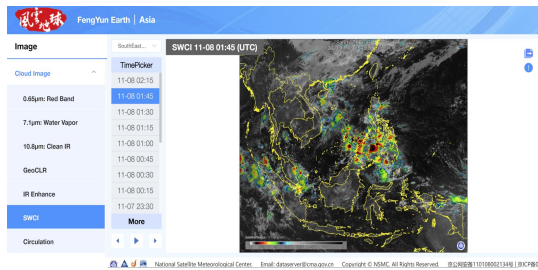
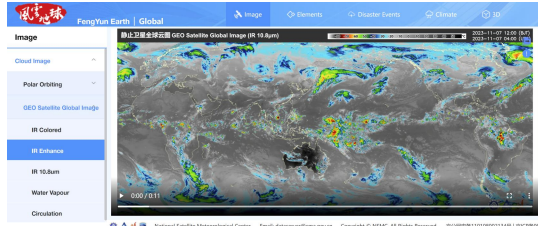
REFINEMENT

The platform offers quantitative products across five categories, including satellite cloud imagery, meteorological elements, disaster events, climate monitoring, and model verification, amounting to over 100 products.

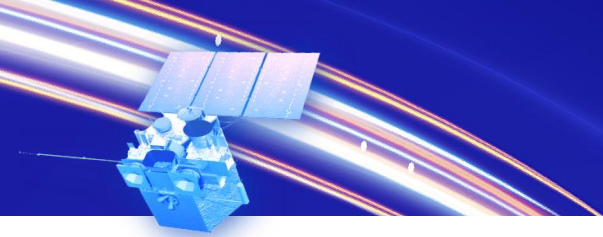


CUSTOMIZABLE

The platform boasts robust customization features in line with the specific needs of different countries and regions, catering to the personalized requirements of users.



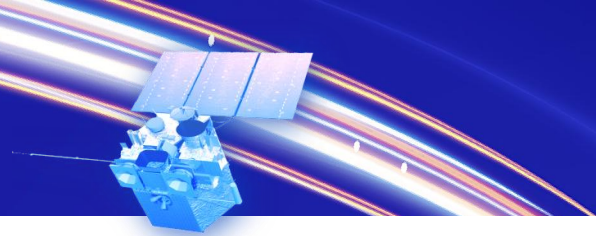
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Officially released to international users



Xiamen Fengyun Meteorological Satellite International User Conference,
November 13, 2023



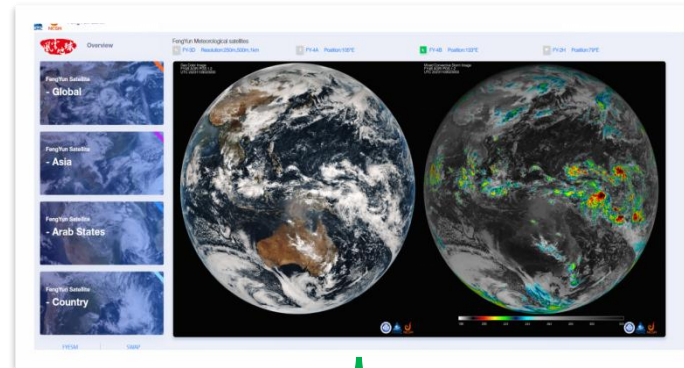
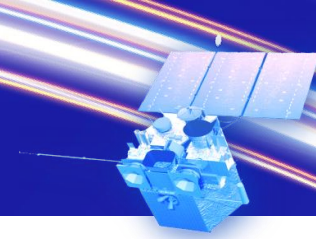
FengYun Earth Global User Statistics



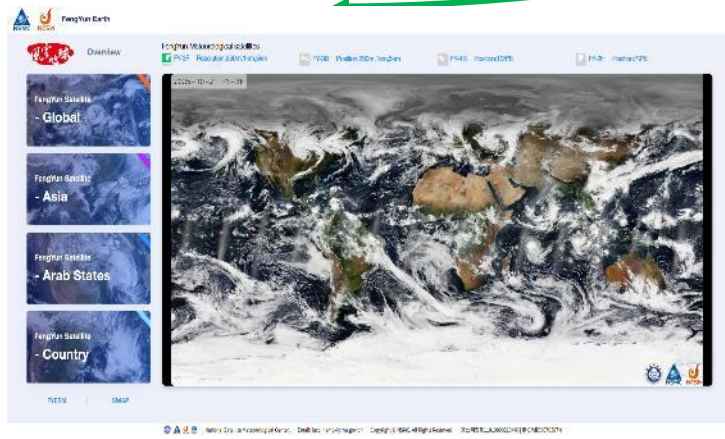
FY-EARTH TOP15			
Rank	Country	PageView	Visitors
1	Thailand	2155	1014
2	Afghanistan	1658	915
3	Pakistan	835	411
4	Indonesia	548	257
5	India	418	277
6	America	376	228
7	Germany	309	276
8	Myanmar	229	195
9	Seychelles	189	184
10	Kazakhstan	167	178
11	Saudi Arabia	149	143
12	Bangladesh	137	121
13	Sri Lanka	131	106
14	France	123	78
15	Cambodia	117	67

More than 100 countries visited FengYun Earth Platform

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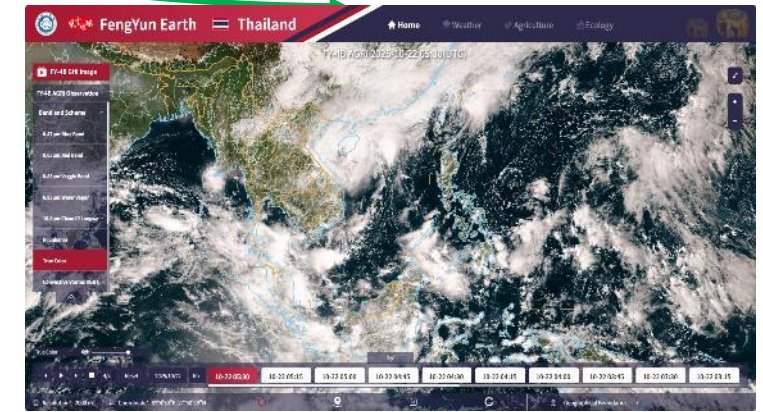
FengYun Earth



Global Edition

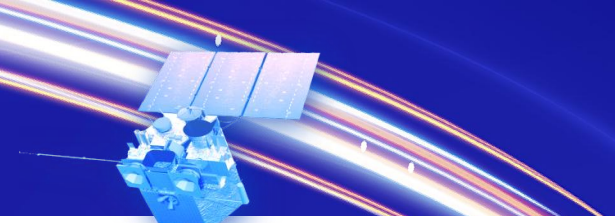


Regional Editon



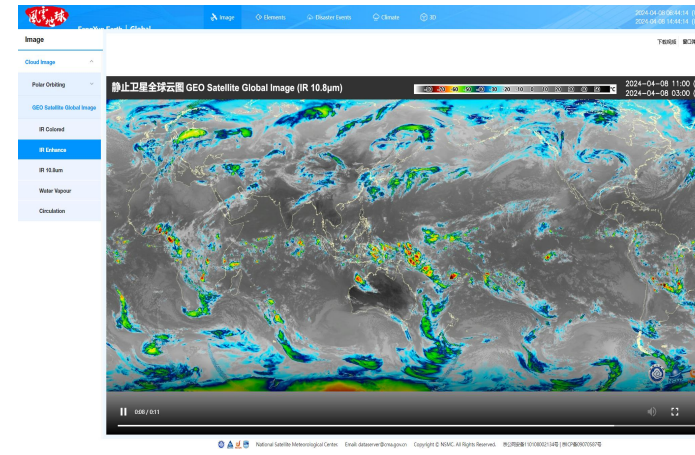
Country Edition

AOMSUC-15 2025 FYSUC

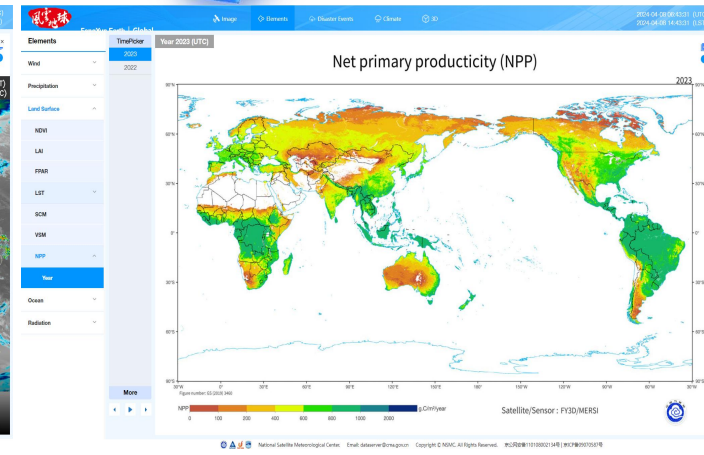


Global version

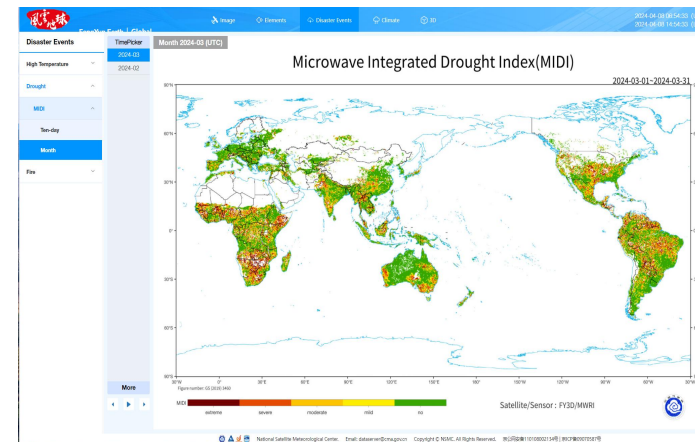
Global	Product category	Num.
Cloud	FY3D true color map, geostationary satellite global map, global atmospheric circulation pattern map	6
Element	Wind, Precipitation, Land, Ocean and Radiation	18
Disaster	Heatwave, Drought, Fire	11
Climate	Polar temperature, LST, Vegetation, sea ice	22
3D	Cloud, Vegetation index, LST, SST	6
Total		63



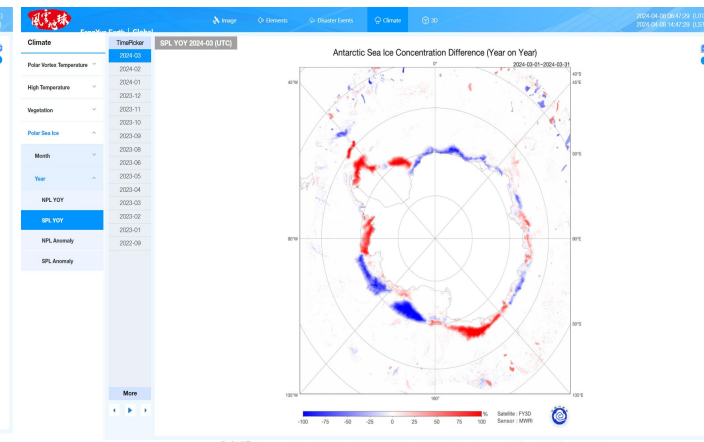
Cloud-Infrared Enhanced cloud



Land-NPP



Disaster-Drought



Climate-Sea ice

AOMSUC-15 2025 FYSUC

Latest Cloud Map Options

Global Entrance

Asia Entrance

Arab Entrance

Other Country Entrance

FengYun Earth

Overview

FengYun Meteorological satellites

FY-3F Resolution:250m,1km,5km FY-3D Position:250m,1km,5km FY-4B Position:105°E FY-2H Position:79°E

2025-10-28 FY-3F

FengYun Satellite - Global

FengYun Satellite - Asia

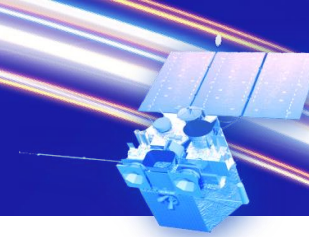
FengYun Satellite - Arab States

FengYun Satellite - Country

FYESM | SWAP

Other Platforms

AOMSUC-15 2025 FYSUC



Cloud Image Product List

FengYun Earth | Global

Image Elements Disaster Events Climate 3D

2025-10-24 01:12:58 (UTC)
2025-10-24 09:12:58 (LST)

Image

Cloud Image
Polar Orbiting
FY-3D TrueCo...
GEO Satellite Global Imag

TimePicker

2025-10-23
2025-10-22
2025-10-21
2025-10-20
2025-10-19
2025-10-18
2025-10-17
2025-10-16
2025-10-15
2025-10-14
2025-10-13
2025-10-12
2025-10-11
2025-10-10
2025-10-09
2025-10-08
2025-10-07
2025-10-06

More

FY-3D TrueColor 2025-10-15 (UTC)

25 10 15 FY 3D

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Element Type Options

Animation Play Command

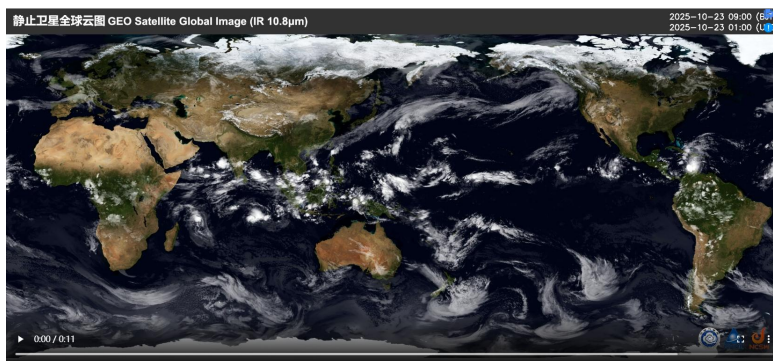
Dynamic Thematic Maps

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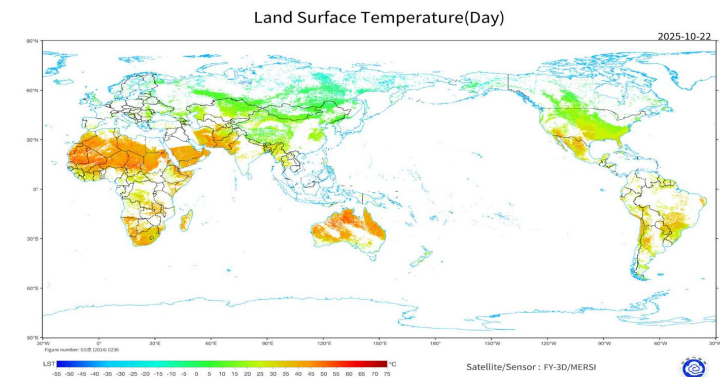
Image

- ✓ Polar Orbiting
- ✓ GEO Satellite Global Image



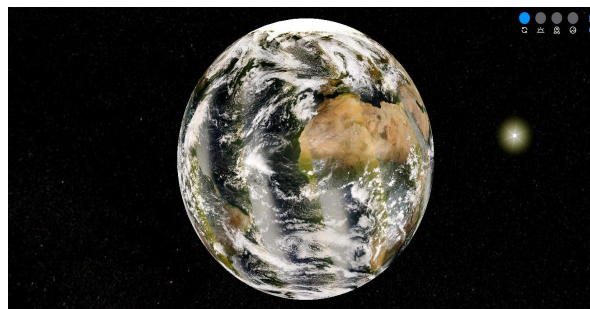
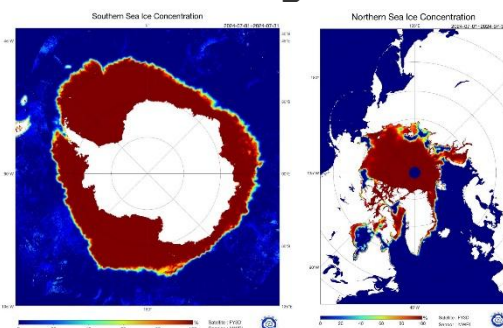
Elements

- ✓ Wind
- ✓ Precipitation
- ✓ Land Surface
- ✓ Ocean
- ✓ Radiation



Climate

- ✓ Polar Vortex Temperature
- ✓ Ocean
- ✓ High Temperature
- ✓ Vegetation
- ✓ Polar Sea Ice



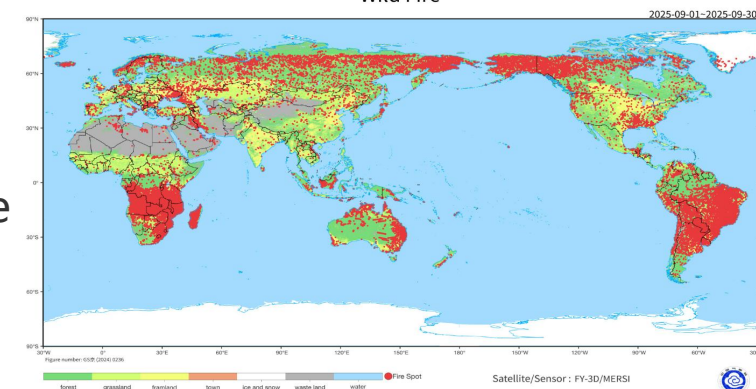
3D

- ✓ Cloud Image
- ✓ NDVI
- ✓ LST
- ✓ Ocean

Disaster Events

- ✓ High Temperature
- ✓ Drought
- ✓ Fire

Wild Fire



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风云地球 FengYun Earth | Asia

Image Elements Disaster Events Climate

2023-09-18 02:38:24 (UTC)
2023-09-18 10:38:24 (LST)

Image

Cloud Image

0.65μm: Red Band

7.1μm: Water Vapor

10.8μm: Clean IR

GeoCLR

IR Enhance

SWCI

Circulation

SouthEast...

TimePicker

09-18 02:15

09-18 01:45

09-18 01:30

09-18 01:15

09-18 01:00

09-18 00:45

09-18 00:30

09-18 00:15

09-18 00:00

09-17 23:30

09-17 23:15

09-17 23:00

09-17 22:45

09-17 22:30

09-17 22:15

09-17 22:00

09-17 21:45

09-17 21:30

More

◀ || ▶

IR Enhance 09-17 21:45 (UTC)

IR Enhance(From CIMSS)
2023-09-17 21:45(UTC)

Satellite/Sensor : FY4B/AGRI

BT -85 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50

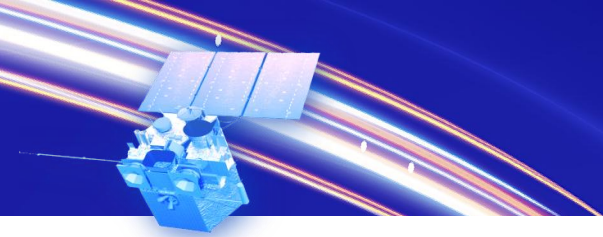
Element Type Options

National Satellite Meteorological Center. Email: dataserver@cma.gov.cn Copyright © NSMC. All Rights Reserved. 京公网安备110108002134号 | 京ICP备09070587号

Cloud Image Product List

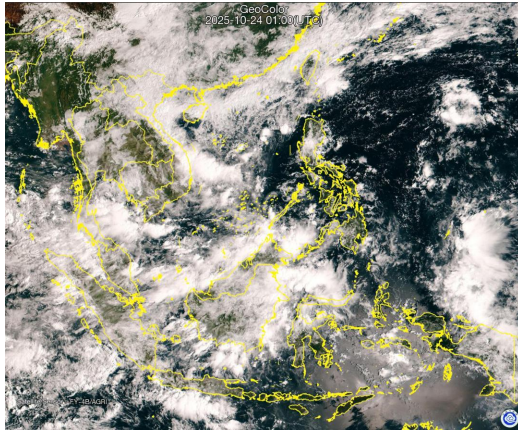
Animation Play Command

Dynamic Thematic Maps



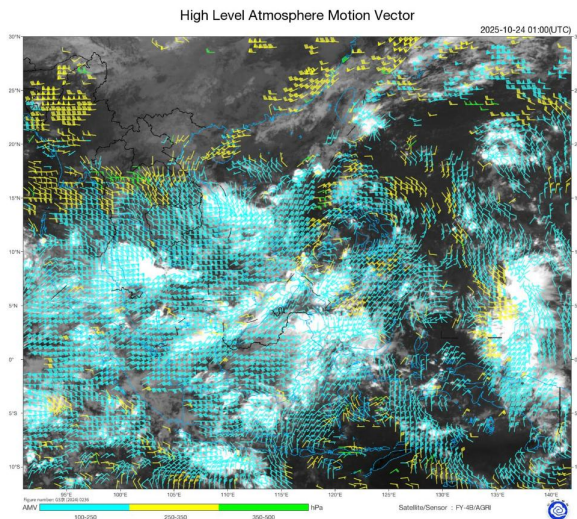
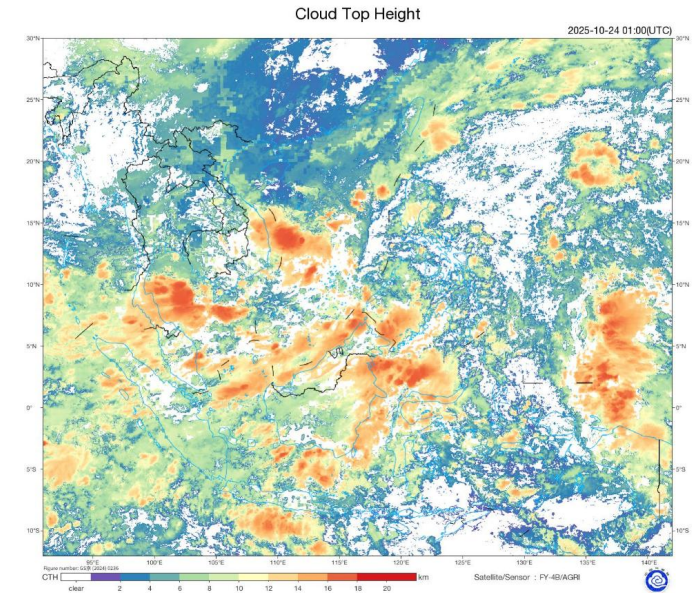
Image

- ✓ Cloud Image
- ✓ GeoCLR
- ✓ IR Enhance
- ✓ 10.8 μ m: IR
- ✓ 0.65 μ m: Red Band
- ✓ 6.95 μ m: Water Vapor
- ✓ SWCI
- ✓ Circulation



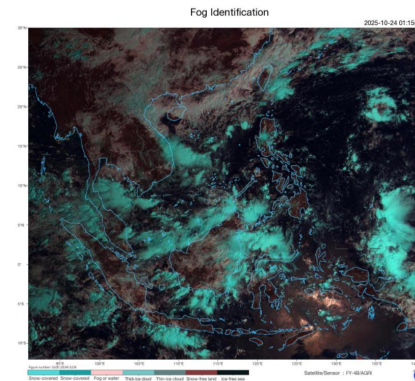
Elements

- ✓ Cloud Params
- ✓ Precipitation Field
- ✓ Land Surface
- ✓ Wind



Climate

- ✓ Summer Wind



Disaster Events

- ✓ Fog
- ✓ Dust
- ✓ High Temperature

FengYun Earth | Arab States

Home
Image
Elements
Disaster Events
Climate

2025-10-24 01:47:37 (UTC)
2025-10-24 09:47:37 (LST)

Image

Cloud Image

GeoCLR

IR Enhance

0.65μm: Red Band

7.1μm: Water Va...

WestAsia

TimePicker

10-24 01:15

10-24 01:00

10-24 00:45

10-24 00:30

10-24 00:15

10-24 00:00

10-23 23:30

10-23 23:15

10-23 23:00

10-23 22:45

10-23 22:30

10-23 22:15

10-23 22:00

10-23 21:45

10-23 21:30

10-23 21:15

10-23 21:00

10-23 20:45

More

GeoCLR 10-24 00:45 (UTC)

GeoColor

2025-10-24 00:45(UTC)

Satellite/Sensor: FY-4B/AGRI

◀
▶
⌂

Element Type Opt

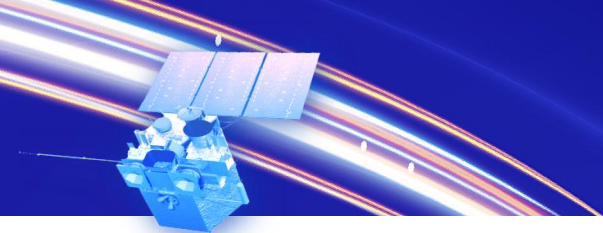
Dynamic Thematic M

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Dynamic Thematic Maps

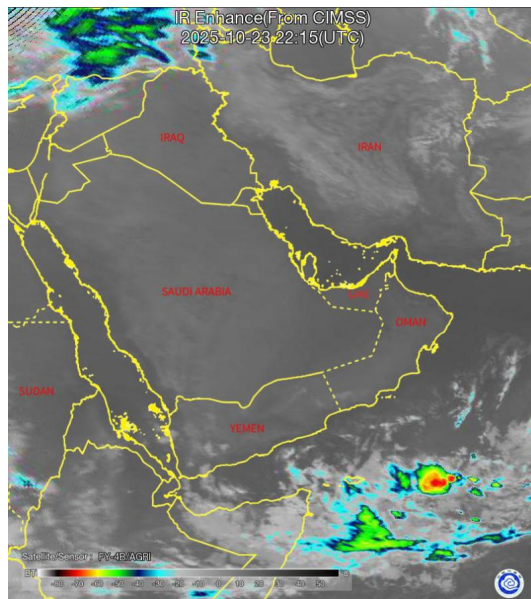
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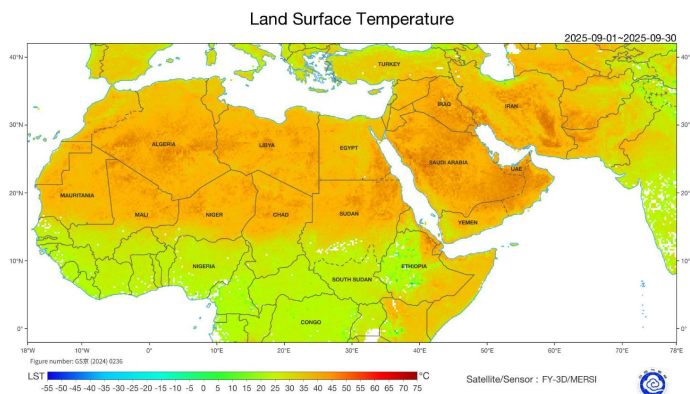
Image

- ✓ GeoCLR
- ✓ IR Enhance
- ✓ 0.65 μ m: Red Band
- ✓ 7.1 μ m: Water Vapor Band



Climate

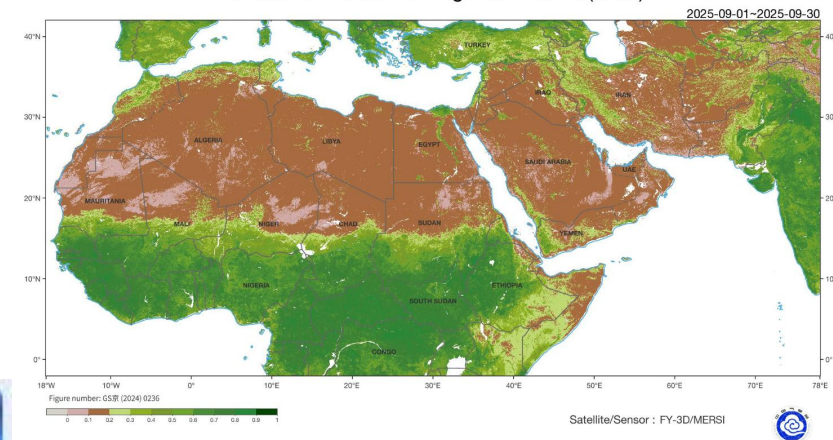
- ✓ Land Surface Temperature
- ✓ Vegetation



Elements

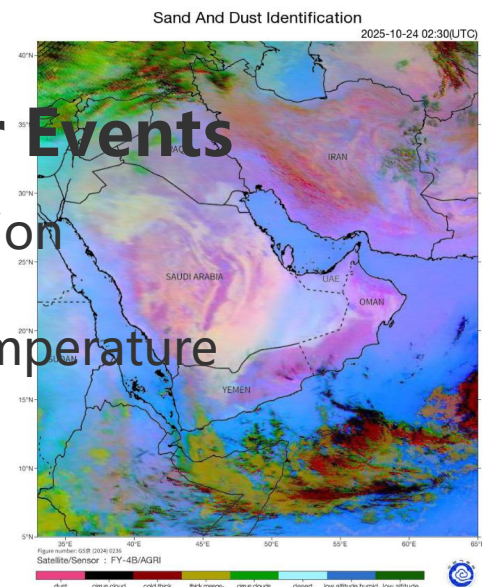
- ✓ Cloud Params
- ✓ Precipitation
- ✓ Land Surface
- ✓ Ocean
- ✓ Wind

Normalized Difference Vegetation Index (NDVI)



Disaster Events

- ✓ Convection
- ✓ DUST
- ✓ High Temperature
- ✓ Drought
- ✓ Fire



AOMSUC-15

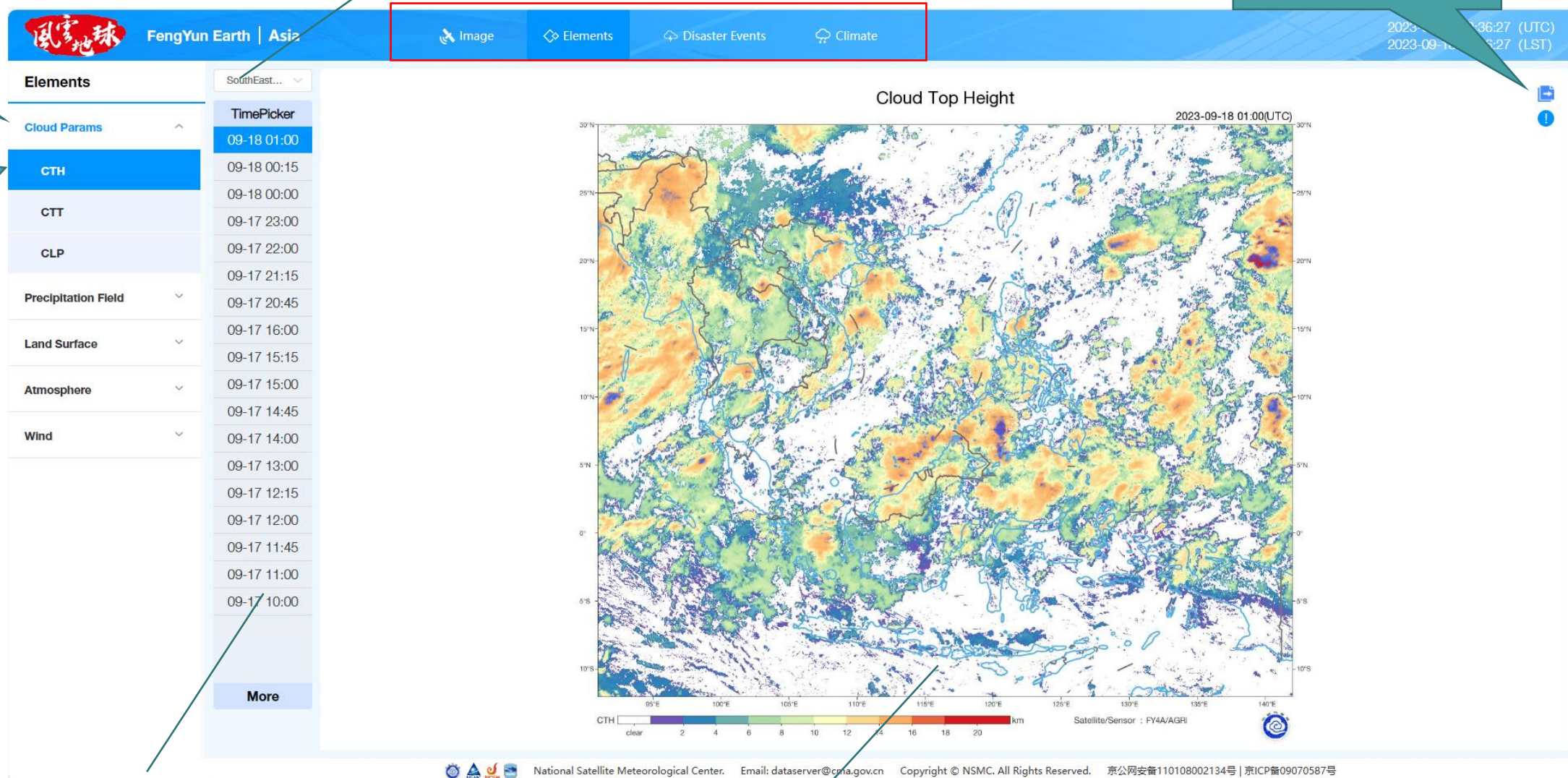
2025 FYSUC

Element
Product
Classification

Region Selection

Download
Product

Element
Product
Subclass

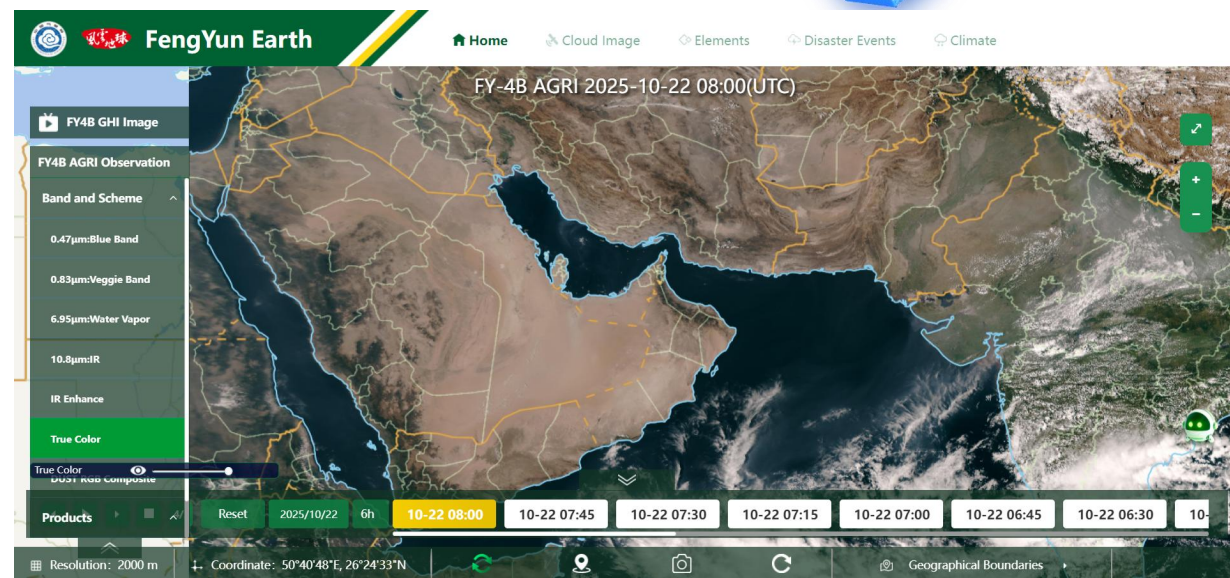


Time List

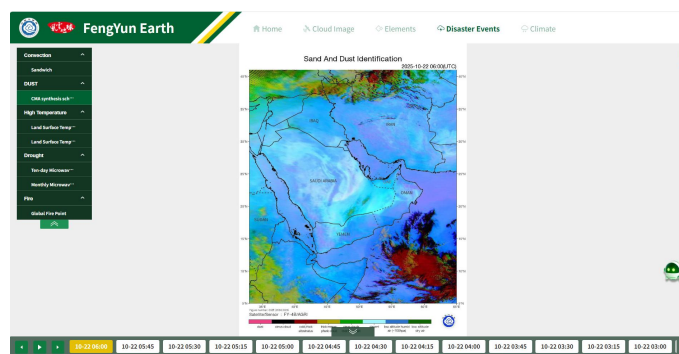
Thematic Map

Arabic

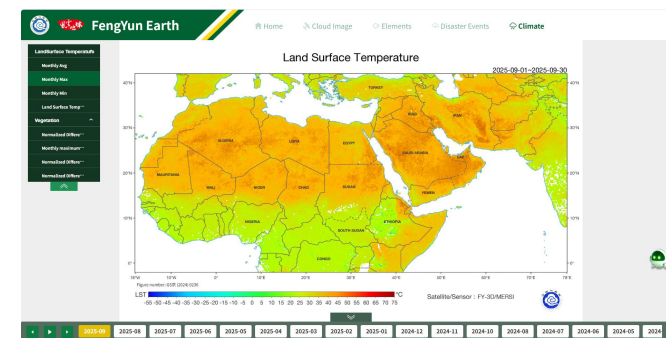
Arab	Product category	num
Cloud	FY-4B true color map, geostationary satellite global map, global atmospheric circulation pattern map	4
Element	Cloud, Precipitation, Land, Ocean, Wind and Radiation	20
Disaster	Convection, Sandstorm, Heatwave, Fire	7
Climate	LST, Vegetation Index	6
Total		40



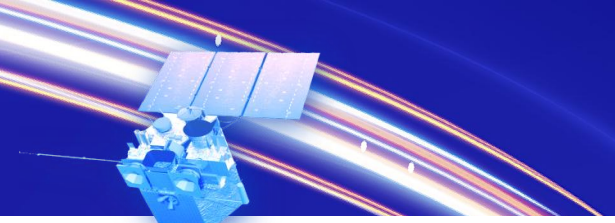
Home



Disaster-Sandstorm

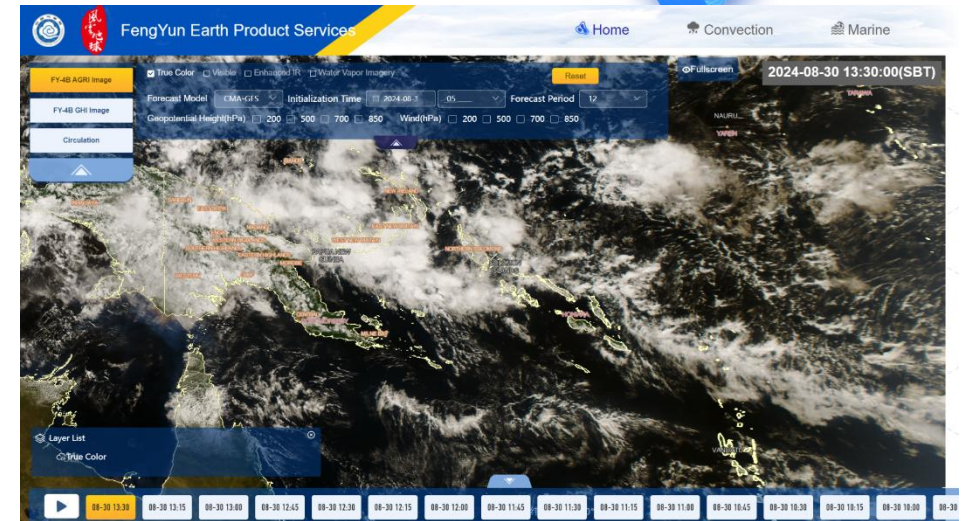


Climate-LST

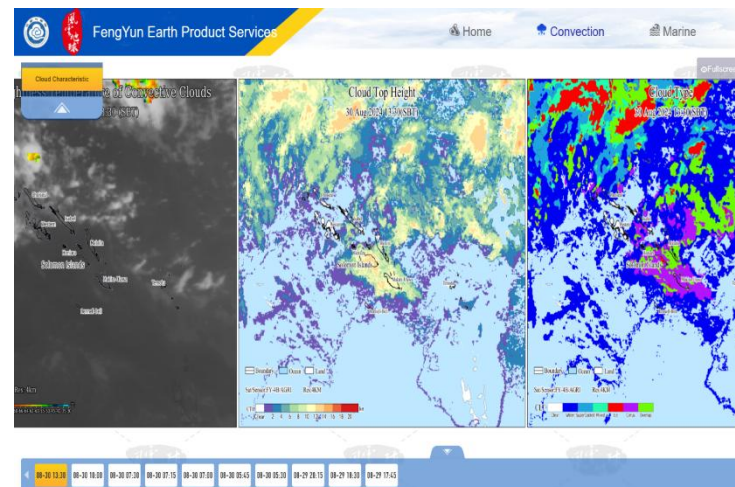


Pacific

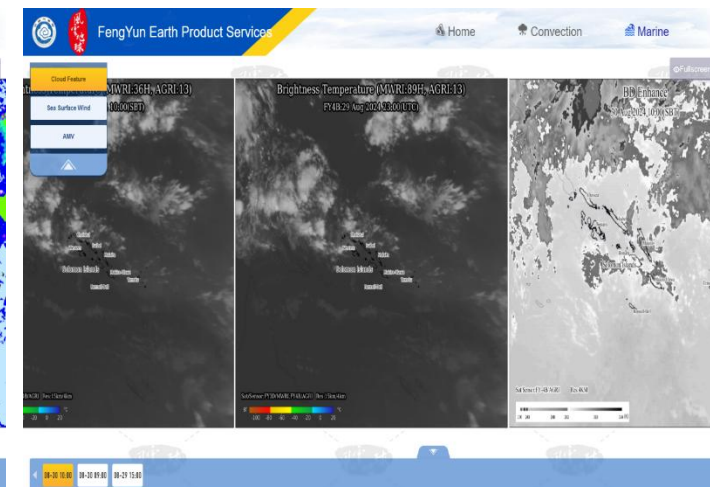
Pacific	Product category	Num.
Cloud	FY-4B true color, visible, water vapor imagery, Forecast model product, GHI imagery, circulation	6
Convection	Cloud Top Height, Brightness Temperature of Convection Cloud, Cloud Type	3
Marine	Brightness Temperature, BD enhance, Ocean Wind Speed, Upper-level AMV, Lower-level AMV	5
Total		14



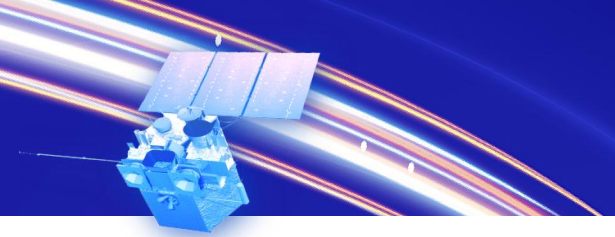
Cloud



Convection



Marine

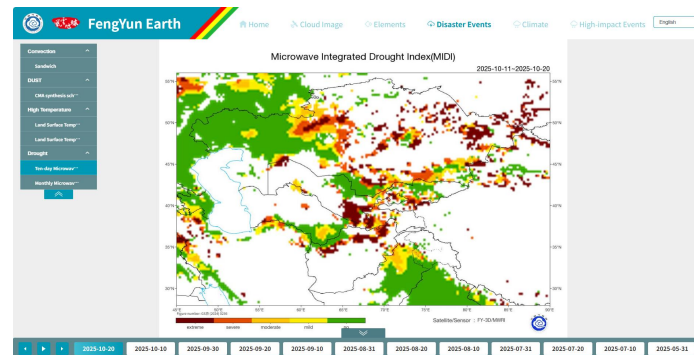


Centra Asia

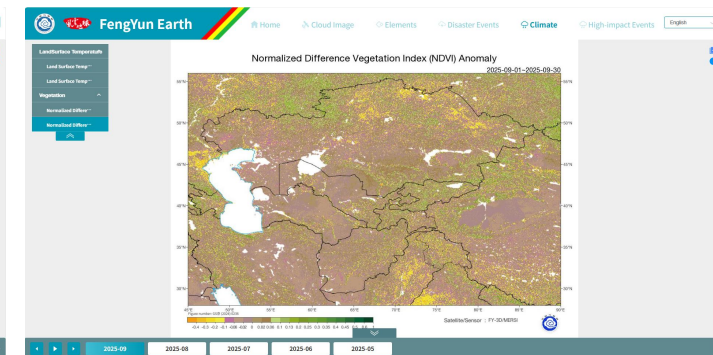
Peru	Product category	Num.
Home	FY-4B true color, 0.47μm:Blue Band, 0.83μm:Veggie Band, 6.95μm:Water Vapor 10.8μm:IR, Surface Shortwave Radiation,GHI	7
Cloud Image	Geo True color,IR Ehance, Band 2:0.65μm, 6.95μm:Water Vapor	4
Elements	Cloud Top Height, Cloud Top Temperature , Cloud Phase, Precipitation,NDVI,LAI,LST,VSM,SNC, Atmospheric Motion Vectors, Surface Shortwave Radiation	14
Disaster Events	Convection, DUST,High Temperature,Drought	6
Climate	Land Suface Temperature, Vegetation	4
Total		35



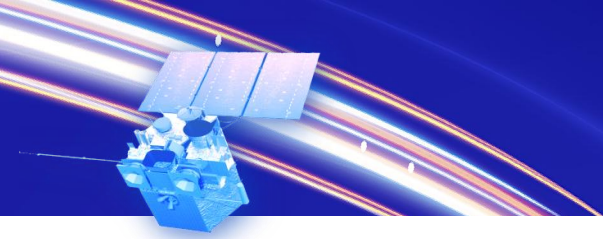
Home



Disaster Events

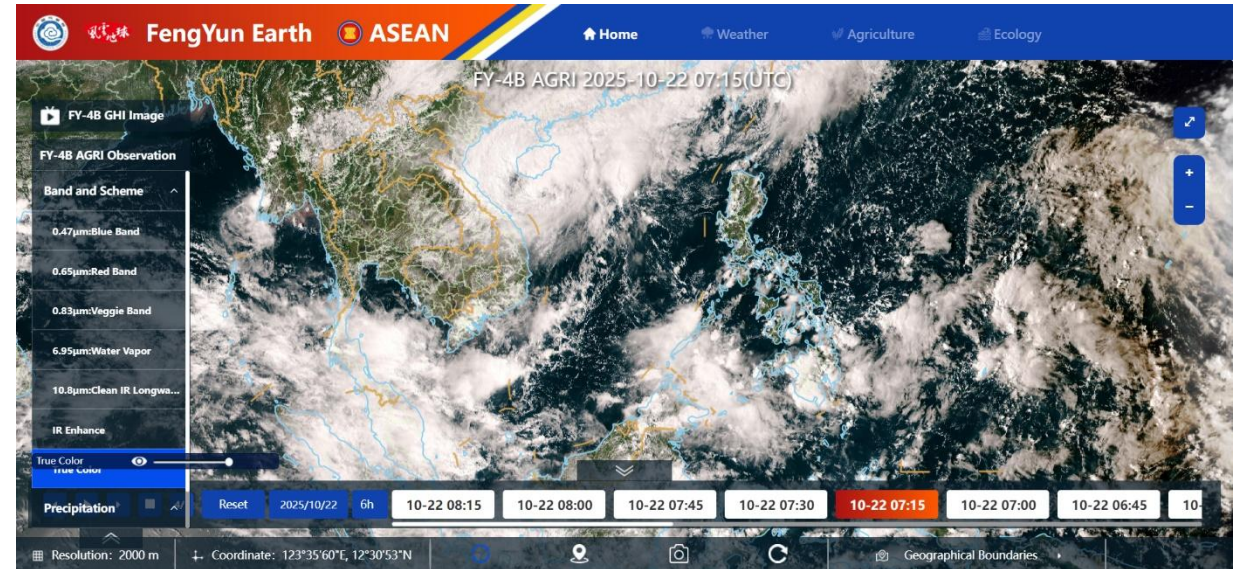


Climate

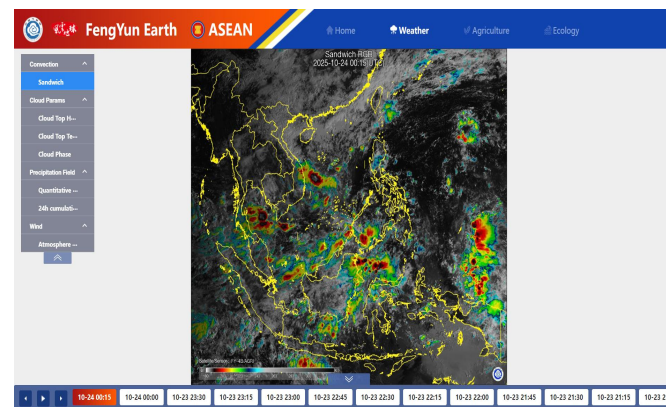


ASEAN

Peru	Product category	Num.
Home	FY-4B true color, visible, water vapor imagery, IR Enhance, Cloud Top Height, Cloud Top Pressure, GHI imagery etc.	13
Weather	Convection, Precipitation, Cloud Top Temperature, Cloud Top Height, Cloud Phase, Upper-level Atmospheric Motion Vectors, Lower-level AMV	7
Agriculture	NDVI, Crop Growth Stituation	2
Ecology	LST, VSM	2
Total		24



Home

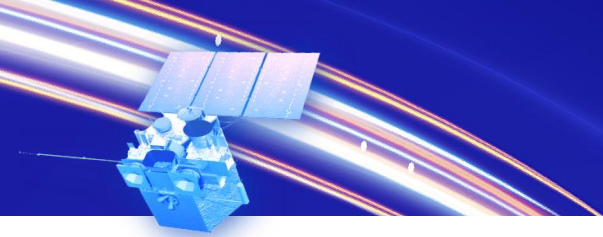


Convection

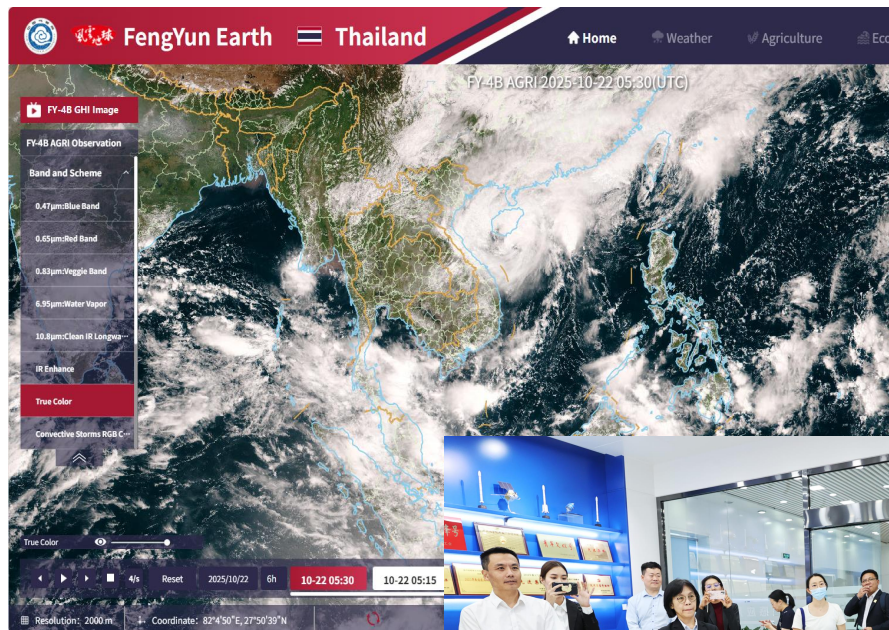


Agriculture

AOMSUC-15 2025 FYSUC



Thailand



Satellite Remote-sensing Report

August 29, 2024

National Satellite Meteorological Center

Rainfall and Flood Monitoring in Thailand

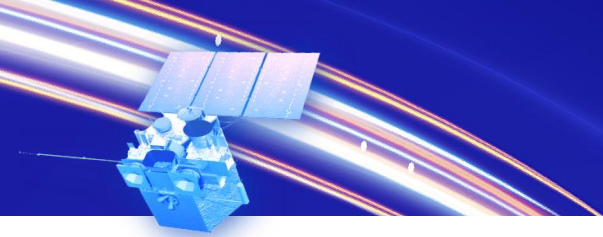
1. Overview

Thailand, Laos, and surrounding regions have been subjected to persistent heavy rainfall due to the influence of a low-pressure system and a monsoon trough. This has resulted in floods and landslides, causing casualties and extensive property damage. In northern Thailand, the provinces of Chiang Rai, Sukhothai, and Phrae have been significantly affected, with at least 30,000 people impacted by the flooding.

2. Satellite monitoring results

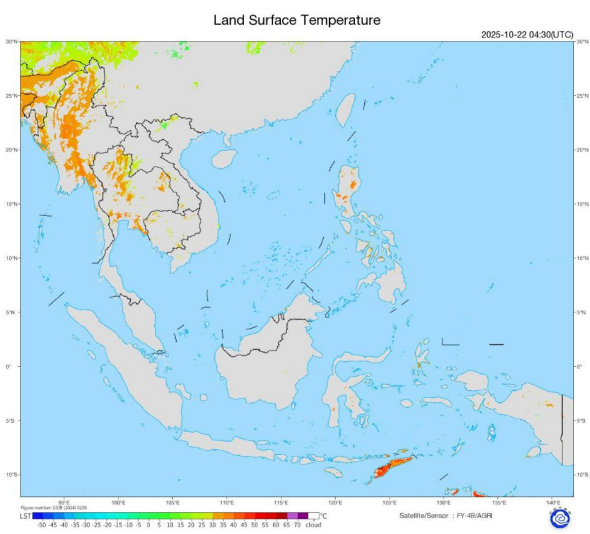
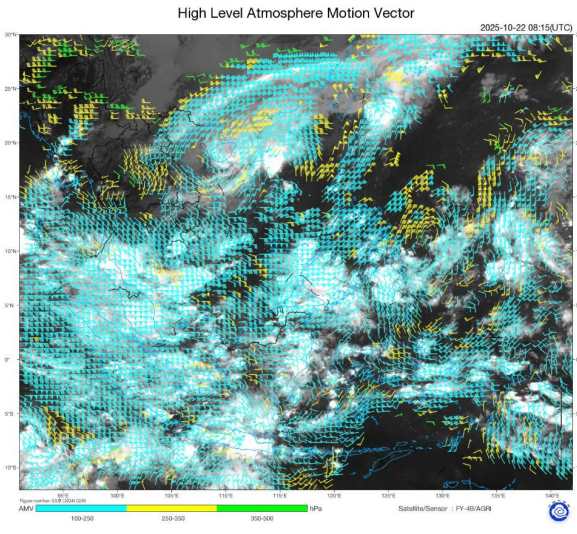
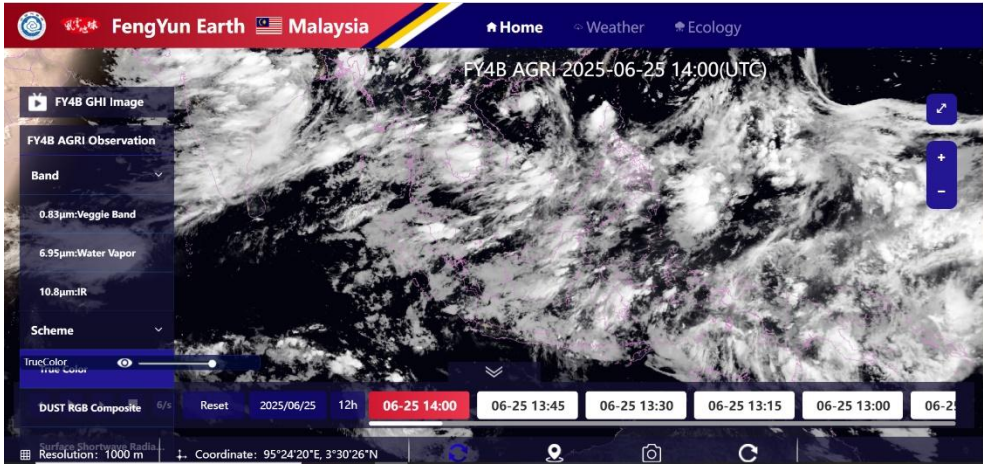
From 20:00 on August 24 to 20:00 on August 25 (Beijing time), the combined precipitation estimation products from the Fengyun satellite (Fig. 1) indicated that cumulative precipitation and the affected areas reached their maximum levels, encompassing Laos, Thailand, and Vietnam, with the highest recorded rainfall reaching 243 mm. The precipitation time series (Fig. 2) reveals that the most intense rainfall occurred at 21:00 on August 24, peaking at an intensity of 44 mm/h.

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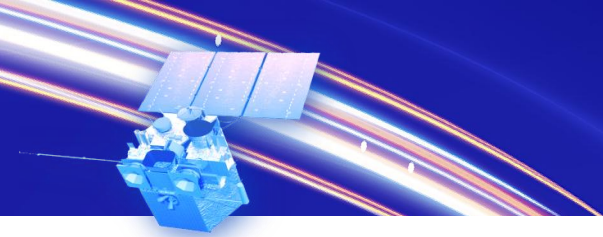


Malaysia

Peru	Product category	Num.
Home	FY-4B true color, 0.47μm:Blue Band, 0.83μm:Veggie Band, 6.95μm:Water Vapor 10.8μm:IR, IR Enhance, 1 hour cumulative precipitation,GHI imagery,	9
Weather	Convection, Cloud Top Height, Cloud Top Temperature , Cloud Phase, Precipitation, Profiles, Atmospheric Motion Vectors	14
Ecology	Land Surface Temperature, Land Aerosol	2
Total		24

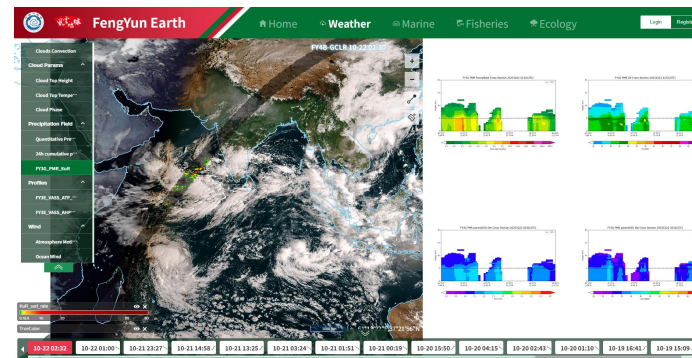
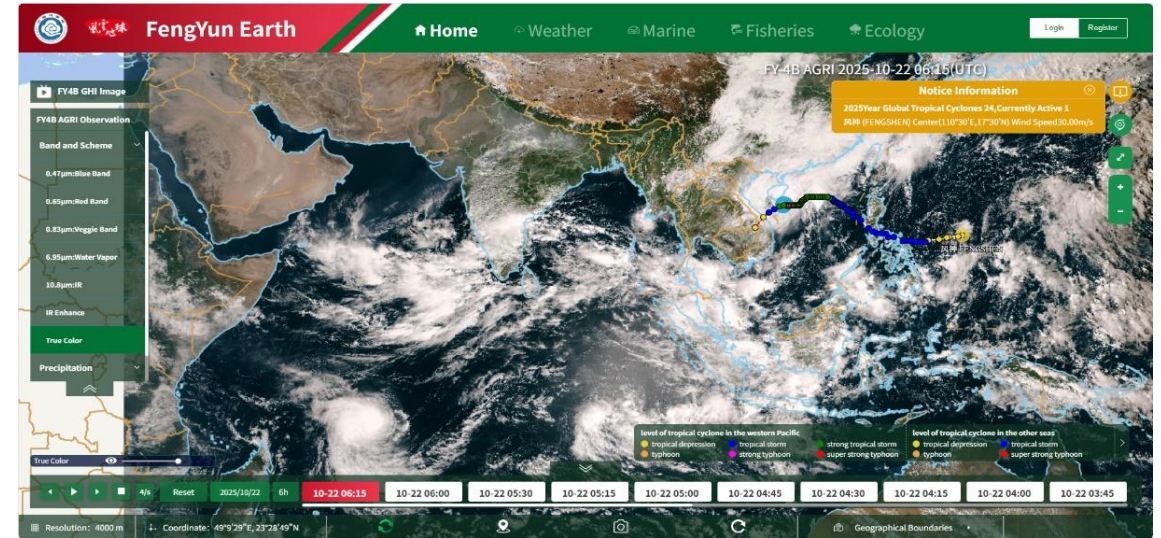


Atmospheric Motion Vectors Land Surface Temperature

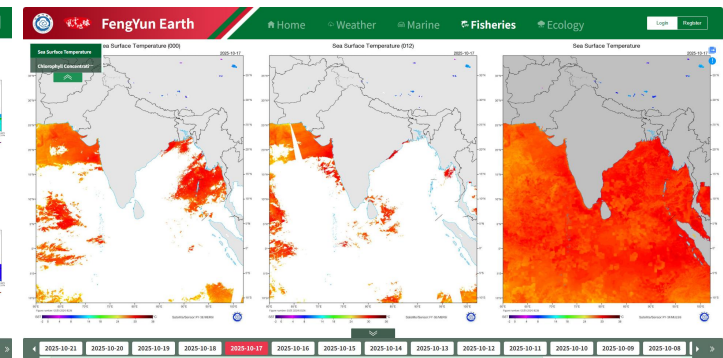


Maldives

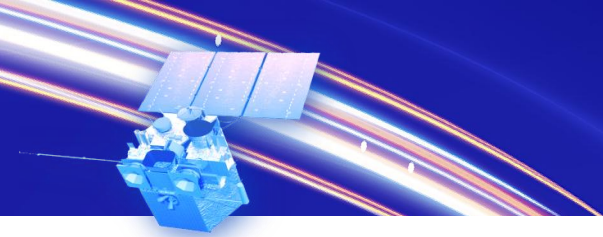
Peru	Product category	Num.
Home	FY-4B true color, 0.47 μ m:Blue Band, 0.83 μ m:Veggie Band, 6.95 μ m:Water Vapor 10.8 μ m:IR, IR Enhance, 1 hour cumulative precipitation,GHI imagery,	9
Weather	Convection, Cloud Top Height, Cloud Top Temperature , Cloud Phase, Precipitation, Profiles, Atmospheric Motion Vectors	14
Marine	FY-4B Sea Surface Temperature	1
Fisheries	FY-3F/FY3E Sea Surface Temperature , Chlorophyll Concentration	4
Total		29



Weather

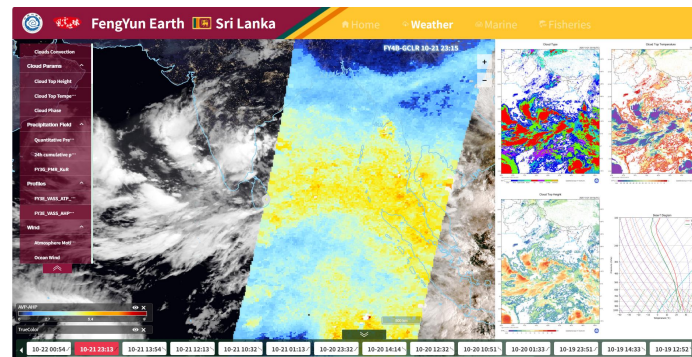
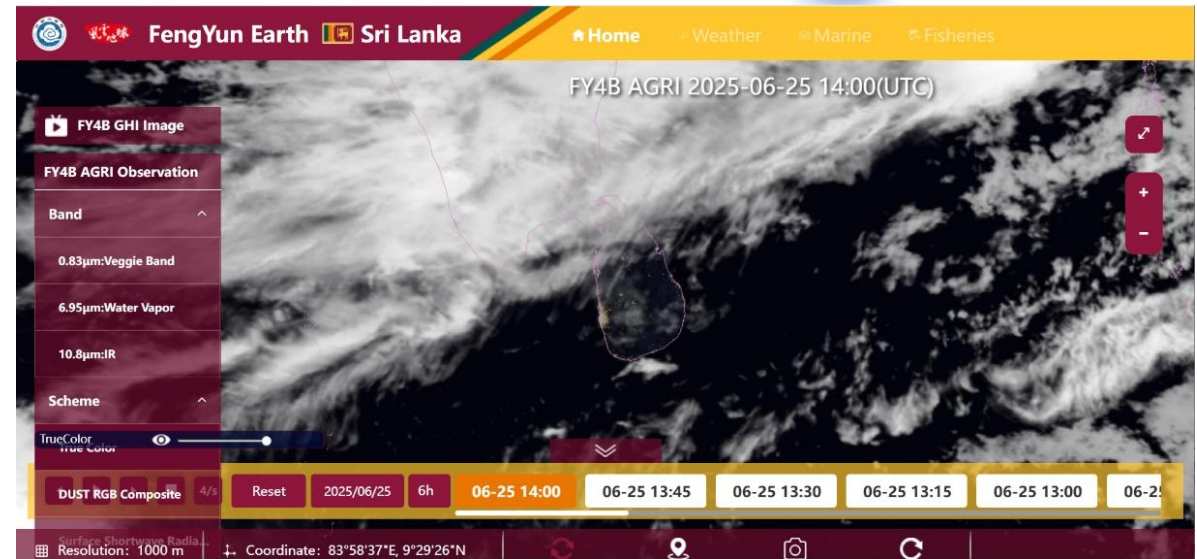


Fisheries

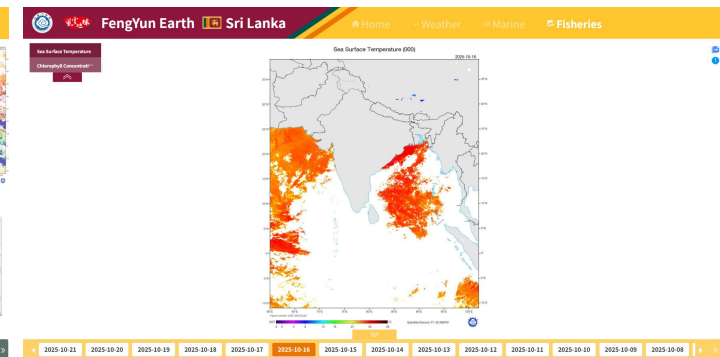


Sri Lanka

Peru	Product category	Num.
Home	FY-4B true color, 0.47μm:Blue Band, 0.83μm:Veggie Band, 6.95μm:Water Vapor 10.8μm:IR, IR Enhance, 1 hour cumulative precipitation,GHI imagery,	9
Weather	Convection, Cloud Top Height, Cloud Top Temperature , Cloud Phase, Precipitation, Profiles, Atmospheric Motion Vectors	14
Marine	FY-4B Sea Surface Temperature	1
Fisheries	FY-3F/FY3E Sea Surface Temperature , Chlorophyll Concentration	4
Total		28

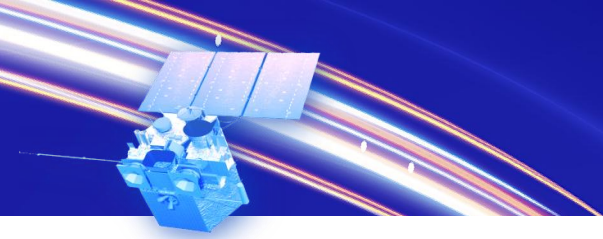


Weather



Fisheries

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THANKS FOR YOUR LISTENING!

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