

How to use JASMES Image Analyzer

Ver.1 : 2024/11/13

Ver.2 : 2025/02/25

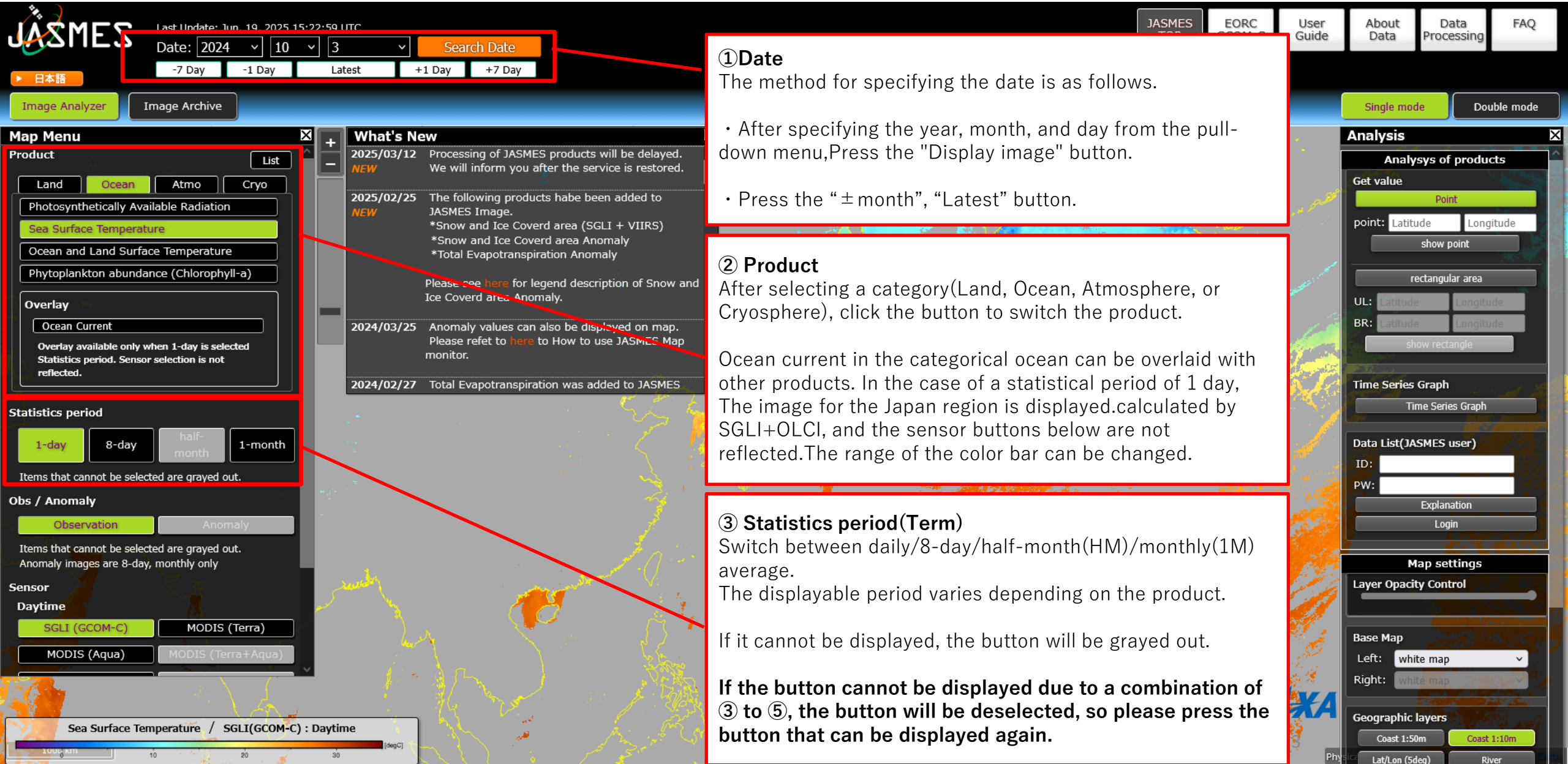
Ver.3 : 2025/07/02

JASMES Image Analyzer Usage



- [JASMES Image Analyzer Usage](#)
- [Data list](#)
- [Data resolution](#)

JASMES Image Analyzer Usage ①



① Date
The method for specifying the date is as follows.

- After specifying the year, month, and day from the pull-down menu, Press the "Display image" button.
- Press the "± month", "Latest" button.

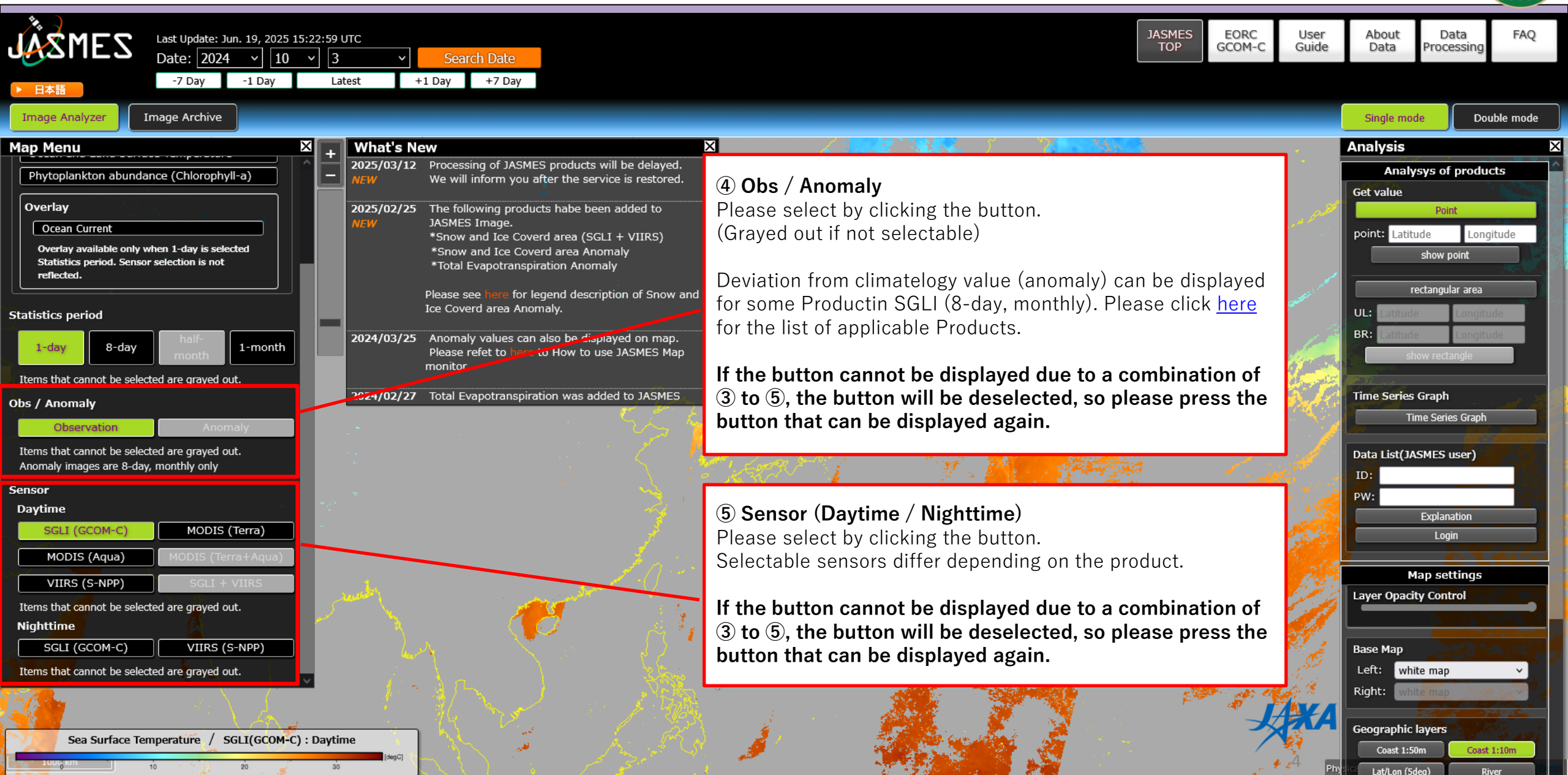
② Product
After selecting a category(Land, Ocean, Atmosphere, or Cryosphere), click the button to switch the product.

Ocean current in the categorical ocean can be overlaid with other products. In the case of a statistical period of 1 day, The image for the Japan region is displayed.calculated by SGLI+OLCI, and the sensor buttons below are not reflected.The range of the color bar can be changed.

③ Statistics period(Term)
Switch between daily/8-day/half-month(HM)/monthly(1M) average.
The displayable period varies depending on the product.
If it cannot be displayed, the button will be grayed out.

If the button cannot be displayed due to a combination of ③ to ⑤, the button will be deselected, so please press the button that can be displayed again.

JASMES Image Analyzer Usage ②



The screenshot shows the JASMES Image Analyzer web interface. The top navigation bar includes links for JASMES TOP, EORC GCOM-C, User Guide, About Data, Data Processing, and FAQ. The main interface is divided into several sections: a top header with date and search filters, a left sidebar with map controls, a central map area, a right sidebar with analysis tools, and a bottom status bar.

Annotations:

- ④ Obs / Anomaly:** A red box highlights the "Obs / Anomaly" section in the left sidebar. The text explains that the "Observation" button is selected, and "Anomaly" is grayed out. It notes that "Items that cannot be selected are grayed out." and "Anomaly images are 8-day, monthly only".
- ⑤ Sensor (Daytime / Nighttime):** A red box highlights the "Sensor" section in the left sidebar. The text explains that the "SGLI (GCOM-C)" button is selected, and "MODIS (Terra)" is grayed out. It notes that "Items that cannot be selected are grayed out." and "Anomaly images are 8-day, monthly only".

Map Menu: Includes "Phytoplankton abundance (Chlorophyll-a)" and "Ocean Current" overlay options. A note states: "Overlay available only when 1-day is selected. Statistics period. Sensor selection is not reflected."

Statistics period: Includes buttons for "1-day", "8-day", "half-month", and "1-month". A note states: "Items that cannot be selected are grayed out."

What's New: A list of recent updates, including "Processing of JASMES products will be delayed" and "The following products have been added to JASMES Image".

Analysis: Includes sections for "Analysys of products", "Time Series Graph", "Data List(JASMES user)", and "Map settings".

Sea Surface Temperature / SGLI(GCOM-C) : Daytime: A color scale bar at the bottom left showing temperature values from 10 to 30 degrees Celsius.

JASMES Image Analyzer Usage ③

The screenshot shows the JASMES Image Analyzer web interface. The main map displays Sea Surface Temperature (SGLI/GCOM-C) data for daytime. The interface includes a top navigation bar with links like JASMES TOP, EORC GCOM-C, User Guide, About Data, Data Processing, and FAQ. A search bar at the top allows filtering by date and time range. The left sidebar contains the Map Menu with options for overlay (Phytoplankton abundance, Ocean Current), statistics period (1-day, 8-day, half-month, 1-month), and sensor selection (SGLI, MODIS, VIIRS). The right sidebar contains the Analysis panel with options for Time Series Graph, Data List, Map settings, and Location change. A 'What's New' panel is also visible in the center-left.

⑥ Layer Opacity Control
You can change the Layer Opacity displayed on the map by sliding the bar.

⑦ Base Map
You can change the base map.

- White map
- GSI map
- NASA BlueMarble
- SGLI-SWI Observation map(Ascending) (Only if Wildfire is selected)

⑧ Geographic layers
Display geographic information on a map. You can switch display/non-display by clicking. Multiple selection is possible.

⑨ Location change
The current center position and zoom level are automatically entered. After entering the center position and zoom level manually, move the position of the map with the "Move Center" button.

JASMES Image Analyzer Usage ④



The screenshot displays the JASMES Image Analyzer web interface. At the top, there's a header with the JASMES logo, a last update timestamp, and navigation links like JASMES TOP, EORC GCOM-C, User Guide, About Data, Data Processing, and FAQ. Below the header, there are date selection controls (Date: 2024, 10, Monthly (Day 1~31)) and a search button. A language selector (日本語) and buttons for Image Analyzer and Image Archive are also present.

On the left side, there's a 'Map Menu' panel with options for Phytoplankton abundance (Chlorophyll-a) and an Overlay section for Ocean Current. Below this is a 'Statistics period' section with buttons for 1-day, 8-day, half-month, and 1-month. Further down are 'Obs / Anomaly' and 'Sensor' sections with various selection options.

In the center, there's a 'What's New' section with a list of updates. Below it, a map of Japan is displayed with a color scale for Sea Surface Temperature / SGLI(GCOM-C) : Daytime.

On the right side, there's a 'Map Menu' panel with a 'Product' list including Land Surface Temperature, Activity of Vegetation (NDVI), Plant Water Stress Trend (WST), Rayleigh corrected reflectance RGB, Wild Fire(FRP) Nighttime, Wild Fire Daytime, and Total Evapotranspiration. Below this is an 'Analysis' section with a 'Time Series Graph' and a 'Data List(JASMES user)' section. Further down are 'Map settings' and 'Location change' sections.

At the bottom, there's a 'Save Location to Cookie' section with Save, Delete, and Show buttons.

Two red boxes highlight specific features:

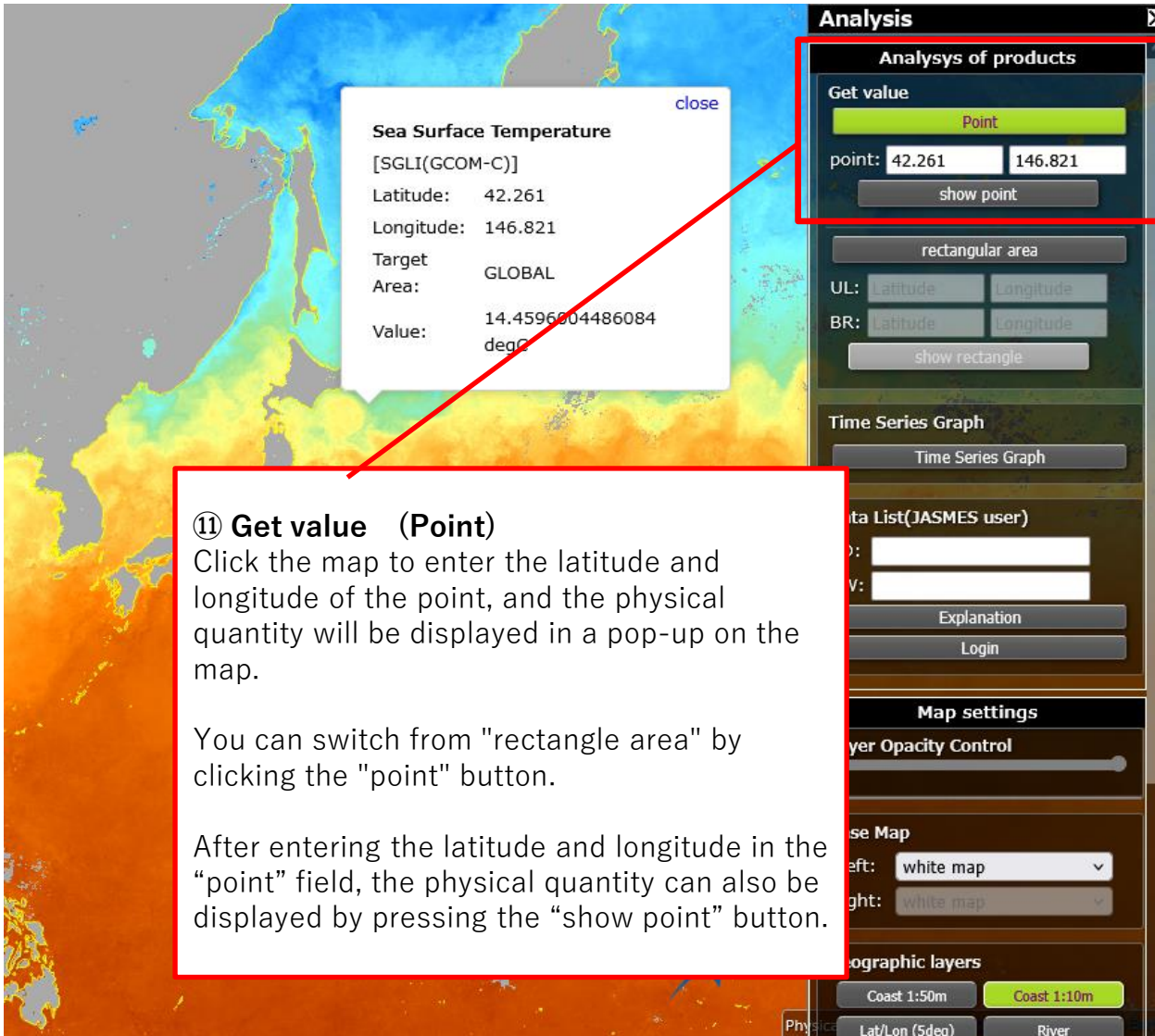
- Link Map / Unlink Map:** A box containing 'Link Map' and 'Unlink Map' buttons. A red arrow points from this box to the 'What's New' section.
- Single mode / Double mode:** A box containing 'Single mode' and 'Double mode' buttons. A red arrow points from this box to the 'Map Menu' panel.

Two text boxes provide additional information:

- You can switch the left and right maps between link / unlink. The default is "link Map".**
- ⑩ Single mode/Double mode**
The map display can be switched between single mode(1-screen) and Double mode(2-screen).
The default is "Single mode".

The display setting when using Double mode is
• The date and period are the same,
• Specify physical quantities, sensors, and background maps individually

JASMES Image Analyzer Usage ⑤

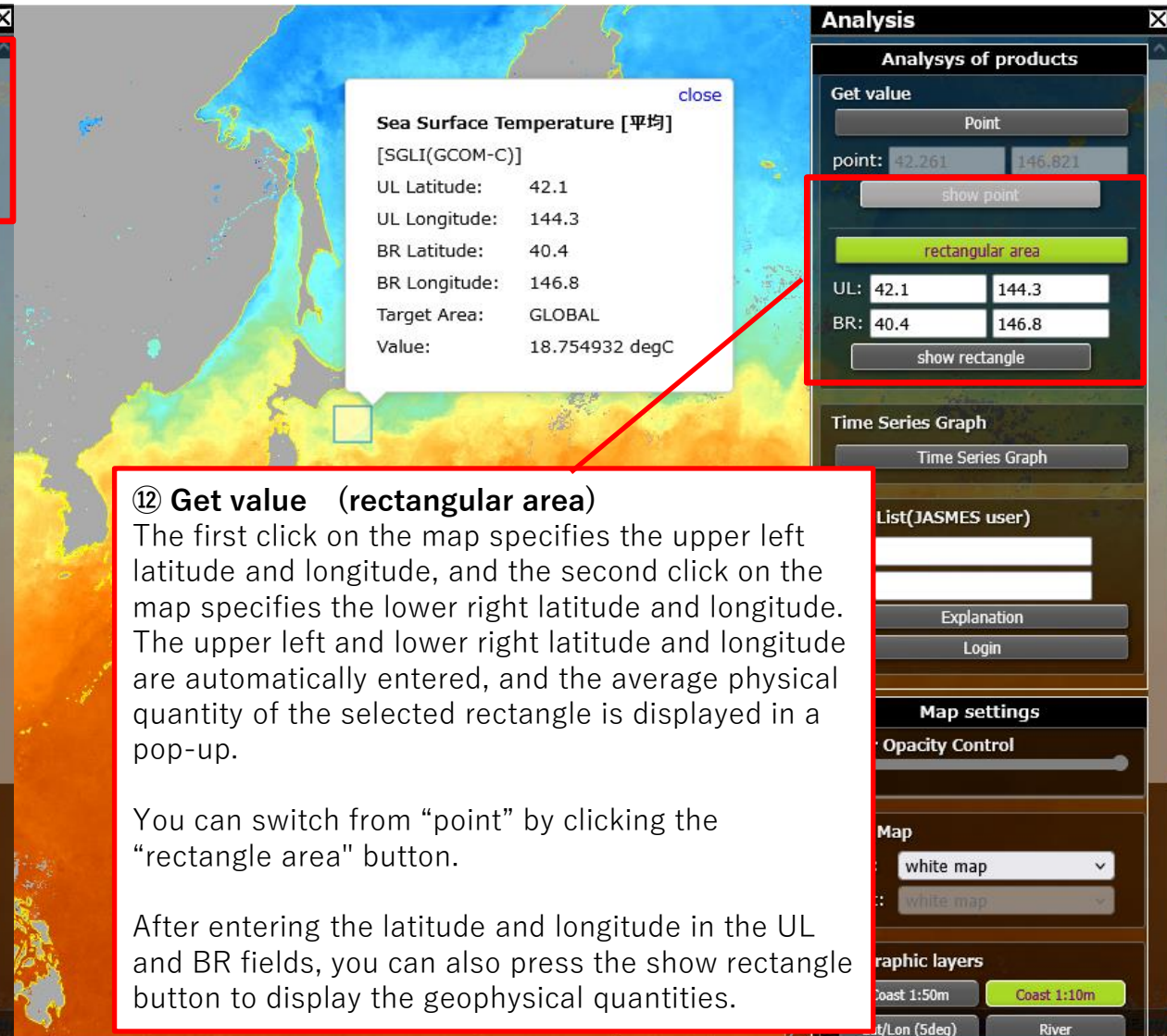


The screenshot shows the JASMES Image Analyzer interface. A map of the Pacific Ocean is displayed. A pop-up window titled "Sea Surface Temperature [SGLI(GCOM-C)]" shows the following data: Latitude: 42.261, Longitude: 146.821, Target: GLOBAL, Area: GLOBAL, Value: 14.4596004486084 degC. The "Analysis" panel on the right has the "Point" button highlighted in green. Below it, the "rectangular area" button is visible. The "Time Series Graph" panel is also visible.

⑪ Get value (Point)
Click the map to enter the latitude and longitude of the point, and the physical quantity will be displayed in a pop-up on the map.

You can switch from "rectangle area" by clicking the "point" button.

After entering the latitude and longitude in the "point" field, the physical quantity can also be displayed by pressing the "show point" button.



The screenshot shows the JASMES Image Analyzer interface. A map of the Pacific Ocean is displayed. A pop-up window titled "Sea Surface Temperature [平均] [SGLI(GCOM-C)]" shows the following data: UL Latitude: 42.1, UL Longitude: 144.3, BR Latitude: 40.4, BR Longitude: 146.8, Target Area: GLOBAL, Value: 18.754932 degC. The "Analysis" panel on the right has the "rectangular area" button highlighted in green. Below it, the "show point" button is visible. The "Time Series Graph" panel is also visible.

⑫ Get value (rectangular area)
The first click on the map specifies the upper left latitude and longitude, and the second click on the map specifies the lower right latitude and longitude. The upper left and lower right latitude and longitude are automatically entered, and the average physical quantity of the selected rectangle is displayed in a pop-up.

You can switch from "point" by clicking the "rectangle area" button.

After entering the latitude and longitude in the UL and BR fields, you can also press the show rectangle button to display the geophysical quantities.

JASMES Image Analyzer Usage ⑥

⑬ Time Series Graph

With the latitude and longitude entered by specifying a point or rectangular area in "Get Value", press the "Time Series Graph/Data" button to display the Time Series Graph menu.

BR Longitude: 145.5
Target Area: GLOBAL
Value: 26.035202 degC

Time Series Graph ☒

Displays a time-series graph of the point or rectangular area specified in 'Get value'.
Select the period and press the show button.

Note: The longer the period, the longer it will take to display.

Start: yyyy/mm/dd (UTC)
End: yyyy/mm/dd (UTC)

Show Time Series Graph

Analysis

Analysis of products

Get value

Point

point: 38.857 145.239

rectangular area

UL: 38.6 142.2

BR: 36.2 145.5

Time Series Graph

Time Series Graph

Data List(JASMES user)

ID:

PW:

Explanation

Login

Map settings

Layer Opacity Control

Base Map

Left: white map

Right: white map

Geographic layers

Coast 1:50m

Coast 1:10m

Lat/Lon (5deg)

River

Location change

Time

January - 2022 -

Display or rectangular value. Select button.

Note: Time will take

Start: 2022/01/01 (UTC)

End: 2023/02/01 (UTC)

Show Time Series Graph

The start and end dates can be entered in the calendar or entered as values. When entering a value, enter it in "yyyy/mm/dd" format.

With the latitude and longitude and the start and end dates specified, press "Show Time Series Graph" button to display the graph in a separate window.

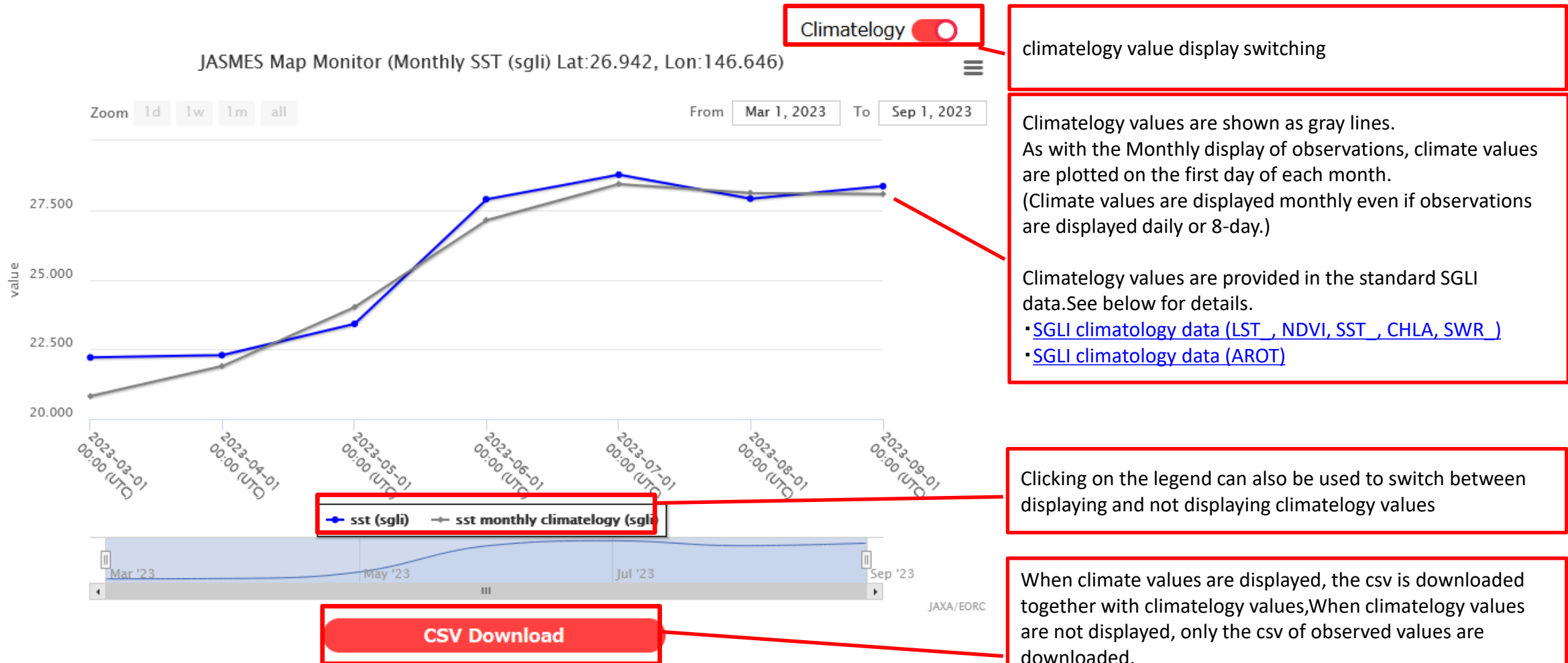


If you have already registered as a JASMES user, you can download csv data.

JASMES Image Analyzer Usage ⑦



For GCOM-C/SGLI LST, NDVI, SST, AROT, and SWR, climatology values can also be displayed in a time series graph.



You need to register from [here](#) for downloading the CSV data.

If the e-mail address at the time of JASMES user registration is "aaaaa@bbbb", ID:aaaaa, PW:aaaaa.

JASMES Image Analyzer Usage ⑧

⑭ Data List

If the e-mail address at the time of JASMES user registration is "aaaaa@bbbbb"

ID: aaaaa_bbbbb, PW: aaaaa@bbbbb

If you have not registered as a user, please register from the "Data Access" on the upper right of the page.

Data List(JASMES user)

ID:
PW:

Explanation

Login

Map settings

Layer Opacity Control

Base Map

Left: white map

Right: white map

Geographic layers

Coast 1:50m

Coast 1:10m

Lat/Lon (5deg)

River

Location change

When you login, the name of the product to be obtained and the date will be displayed.
The list is downloaded by pressing "get Datalist" button.

Time Series Graph

Time Series Graph

Data List(JASMES user)

JASMES Login

Product :
sst(sgli), rgb(all_modis),

Date :
2024/Monthly (Day 1~31)
(monthly)

Get Datalist

Map settings

Layer Opacity Control

Base Map

Left: white map

Right: white map

Geographic layers

Coast 1:50m

Coast 1:10m

Lat/Lon (5deg)

River

JASMES Image Analyzer Data List

		ID	sensor	Temporal Statistics						Available data period	Note
				daily	8-day	half monthly	monthly	8-day anomaly	monthly anomaly		
Land	Land Surface Temperature	LST	Terra/MODIS	○	-	-	-	-	-	2011/1/1~	
			Aqua/MODIS	○	-	-	-	-	-	2011/1/1~	
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	Activity of Vegetation (NDVI)	NDVI	Terra and Aqua/MODIS	-	-	○	○	-	-	2000/3~	
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	Rayleigh corrected reflectance RGB	RSRF	Terra and Aqua/MODIS	○	-	○	○	-	-	Daily:2011/1/1~	
	Plant Water Stress Trend (WST)	WST	Terra and Aqua/MODIS	○	-	○	○	-	-	Daily:2002/10/1~, Monthly:2002/2~	
	Wild Fire Daytime	WF_D	GCOM/SGLI	○	-	-	-	-	-	2018/1/1~	
	Wild Fire(FRP) Nighttime	WF_N	GCOM/SGLI	○	-	-	-	-	-	2018/1/1~	
	Total Evapotranspiration	ET	GCOM/SGLI	-	○	○	○	○	○	2018/1/1~	
			Terra and Aqua/MODIS	-	○	○	○	○	○		
Ocean	Photosynthetically Available Radiation	PAR	Terra and Aqua/MODIS	○	-	○	○	-	-	Daily:2013/10/1~, Monthly:2000/3~	
			VIIRS	○	-	-	○	-	-	2017~	
	Sea Surface Temperature	SST	Terra/MODIS	○	-	-	-	-	-	2010/1/1~	
			Aqua/MODIS	○	-	-	-	-	-	2010/1/1~	
			VIIRS	○	-	-	○	-	-	2017~	
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	Ocean and Land Surface Temperature	OLST	Terra and Aqua/MODIS	○	-	○	○	-	-	Daily:2011/1/1~, Monthly:2000/3~	
	Phytoplankton abundance (Chlorophyll-a)	CHLA	Terra and Aqua/MODIS	-	-	○	○	-	-	2000/3~	
			VIIRS	○	-	-	○	-	-	2017~	
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	Ocean Current	-	SGLI + OLCI	○	-	-	-	-	-	2018/1~	
Atmosphere	Aerosol Optical thickness	TAUA	Terra and Aqua/MODIS	○	-	○	○	-	-	Daily:2011/10/1~, Monthly:2000/3~	
			VIIRS	○	-	-	○	-	-	2017~	
		AROT	GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	Shortwave Radiation	SWR	Terra/MODIS	○	-	○	-	-	-	Daily:2002/1/1~, Monthly:2000/3~	
			Aqua/MODIS	○	-	○	-	-	-	Daily:2002/1/1~, Monthly:2002/7~	
			VIIRS	○	-	-	○	-	-	2017~	
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	UV-B	UVB	Terra/MODIS	○	-	○	-	-	-	Daily:2002/1/1~, Monthly:2000/3~	
			Aqua/MODIS	○	-	○	-	-	-	Daily:2002/1/1~, Monthly:2002/7~	
			VIIRS	○	-	-	○	-	-	2017~	
	Cloud Cover Rate	CFR	Terra and Aqua/MODIS	-	-	-	○	-	-	2000/2~	
Cryosphere	Snow Cover Extent	CSF	Terra and Aqua/MODIS	-	-	-	○	-	○	2000/2~	
			SGLI + VIIRS	○	-	○	○	-	○	2018/2/1~	11
	Snow and Ice Surface Temperature	SIST	GCOM/SGLI	○	-	○	○	-	-	2018/1/1~	

JASMES Image Analyzer data resolution

- The resolution of the data displayed on the map is as shown in the table.
- Display Global data first. If you move near Japan and zoom(Zoom level 5 or higher), the data of Japan will be displayed.

Sensor	Area	resolution
GCOM-C / SGLI	Global	5km
	Japan	250m
Terra • Aqua / MODIS	Global	5km
	Japan	1km
S-NPP / VIIRS	Global	5km
	Japan	750m

Please see below for details on data.

SGLI: https://www.eorc.jaxa.jp/JASMES/SGLI_STD/about_sglistd_j.html

MODIS: https://kuroshio.eorc.jaxa.jp/JASMES/datalist_j.html