

How to use JASMES map monitor

Ver.1 : 2023/03/16

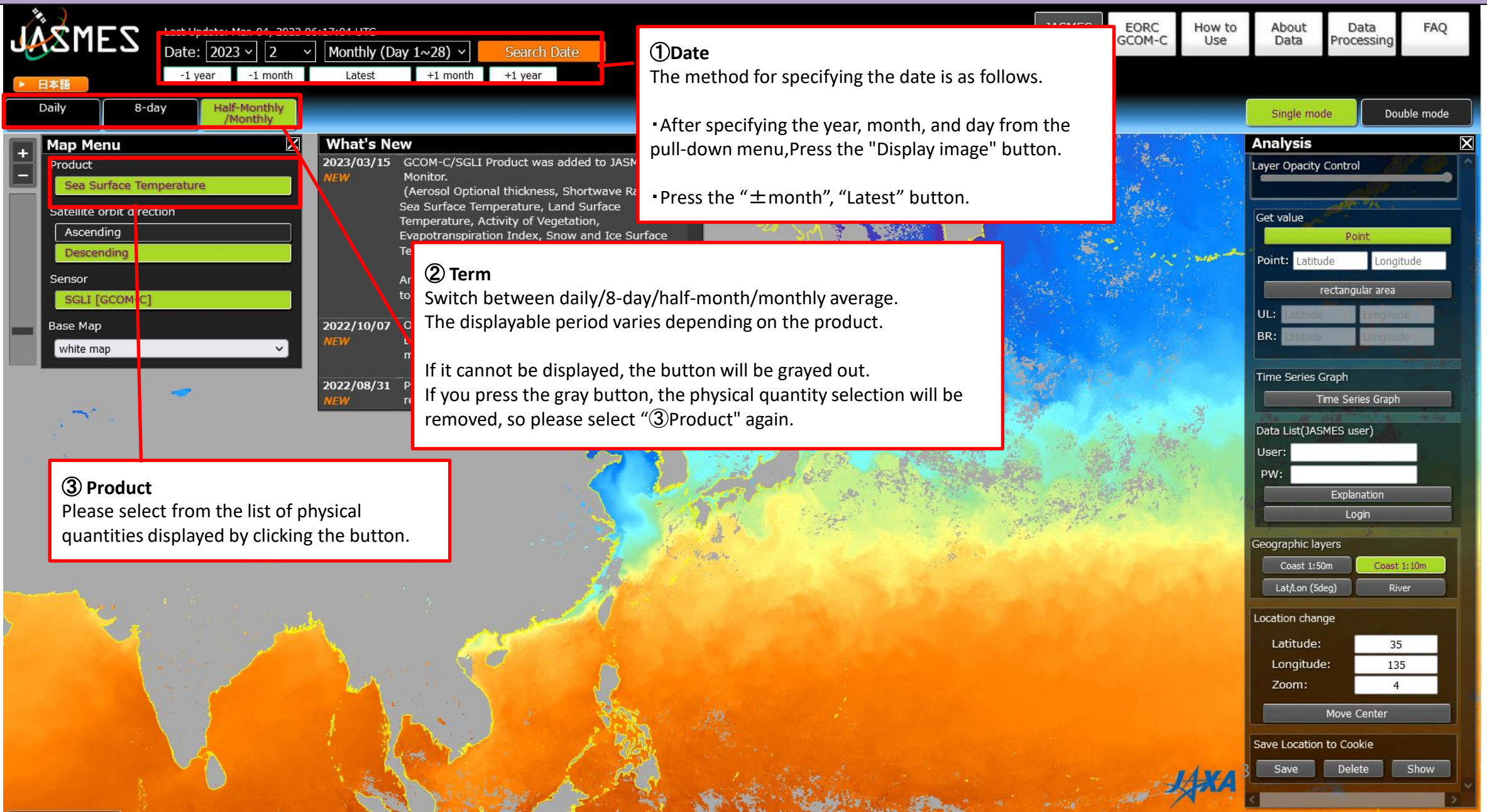
Ver.2 : 2024/01/18

JASMES Map monitor Usage



- [JASMES Map monitor Usage](#)
- [Data list](#)
- [Data resolution](#)

JASMES Map monitor Usage①



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 Term
Switch between daily/8-day/half-month/monthly average.
The displayable period varies depending on the product.

If it cannot be displayed, the button will be grayed out.
If you press the gray button, the physical quantity selection will be removed, so please select "③ Product" again.

③ Product
Please select from the list of physical quantities displayed by clicking the button.

JASMES Map monitor Usage②



④ Satellite orbit direction
Displayed when the sensor is SGLI and the Ascending/Descending direction can be selected. Please select by clicking the button.

⑤ Sensor
Selectable sensors are displayed. Please select by clicking the button. Selectable sensors differ depending on the product.

⑥ Base Map
You can change the base map.
• White map
• GSI map
• NASA BlueMarble
• SGLI-SWI Observation map(Ascending) (Only if Wildfire is selected)

⑦ Layer Opacity Control
You can change the Layer Opacity displayed on the map by sliding the bar.

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.

Map Menu
Product: Sea Surface Temperature
Satellite orbit direction: Ascending, Descending
Sensor: MODIS [Aqua], MODIS [Terra], SGLI [GCOM-C]
Base Map: white map

Analysis
Layer Opacity Control
Get value: Point
Point: Latitude, Longitude
rectangular area
UL: Latitude, Longitude
series Graph
Time Series Graph
list(JASMES user)
User:
PW:
Explanation
Login
Geographic layers
Coast 1:50m, Coast 1:10m
Lat/Lon (5deg), River
Location change
Latitude: 35
Longitude: 135
Zoom: 4
Move Center
Save Location to Cookie
Save, Delete, Show

JASMES Map monitor Usage③



The screenshot shows the JASMES Map monitor interface. At the top, there's a header with the JASMES logo, last update time (Mar. 04, 2023 06:17:04 UTC), and navigation links (JASMES TOP, EORC GCOM-C, How to Use, About Data, Data Processing, FAQ). Below the header, there are date selection controls (Date: 2023, 2, Monthly (Day 1~28), Search Date) and time range buttons (-1 year, -1 month, Latest, +1 month, +1 year). The interface is divided into several sections: a left sidebar with a 'Map Menu' (Product: Sea Surface Temperature, Satellite orbit direction: Ascending/Descending, Sensor: SGLI [GCOM-C], Base Map: white map), a 'What's New' section, a central map area, and a right sidebar with 'Analysis' controls (Layer Opacity Control, Get value: Point, Point: Latitude/Longitude, rectangular area, UL: Latitude/Longitude, BR: Latitude/Longitude, Time Series Graph, Data List (JASMES user), Geographic layers, Location change, Save Location to Cookie). The 'Link Map' and 'Unlink Map' buttons are highlighted with a red box. The 'Single mode' and 'Double mode' buttons are also highlighted with a red box. A red line connects the 'Link Map' button to the 'Single mode' button, and another red line connects the 'Unlink Map' button to the 'Double mode' button.

Map Menu

- Product: Sea Surface Temperature
- Satellite orbit direction: Ascending, Descending
- Sensor: SGLI [GCOM-C]
- Base Map: white map

What's New

2023/03/15 NEW GCOM-C/SGLI Product was added to JASMES Map Monitor. (Aerosol Optional thickness, Shortwave Radiation, Sea Surface Temperature, Land Surface Temperature, Activity of Vegetation, Evapotranspiration Index, Snow and Ice Surface Temperature)

Link Map **Unlink Map**

Single mode **Double mode**

Analysis

Layer Opacity Control

Get value

Point

Point: Latitude Longitude

rectangular area

UL: Latitude Longitude

BR: Latitude Longitude

Time Series Graph

Time Series Graph

Data List(JASMES user)

User:

PW:

Explanation

Login

Geographic layers

Coast 1:50m Coast 1:10m

Lat/Lon (5deg) River

Location change

Latitude: 35

Longitude: 135

Zoom: 4

Move Center

Save Location to Cookie

5 Save Delete Show

You can switch the left and right maps between link / unlink.
The default is "link Map".

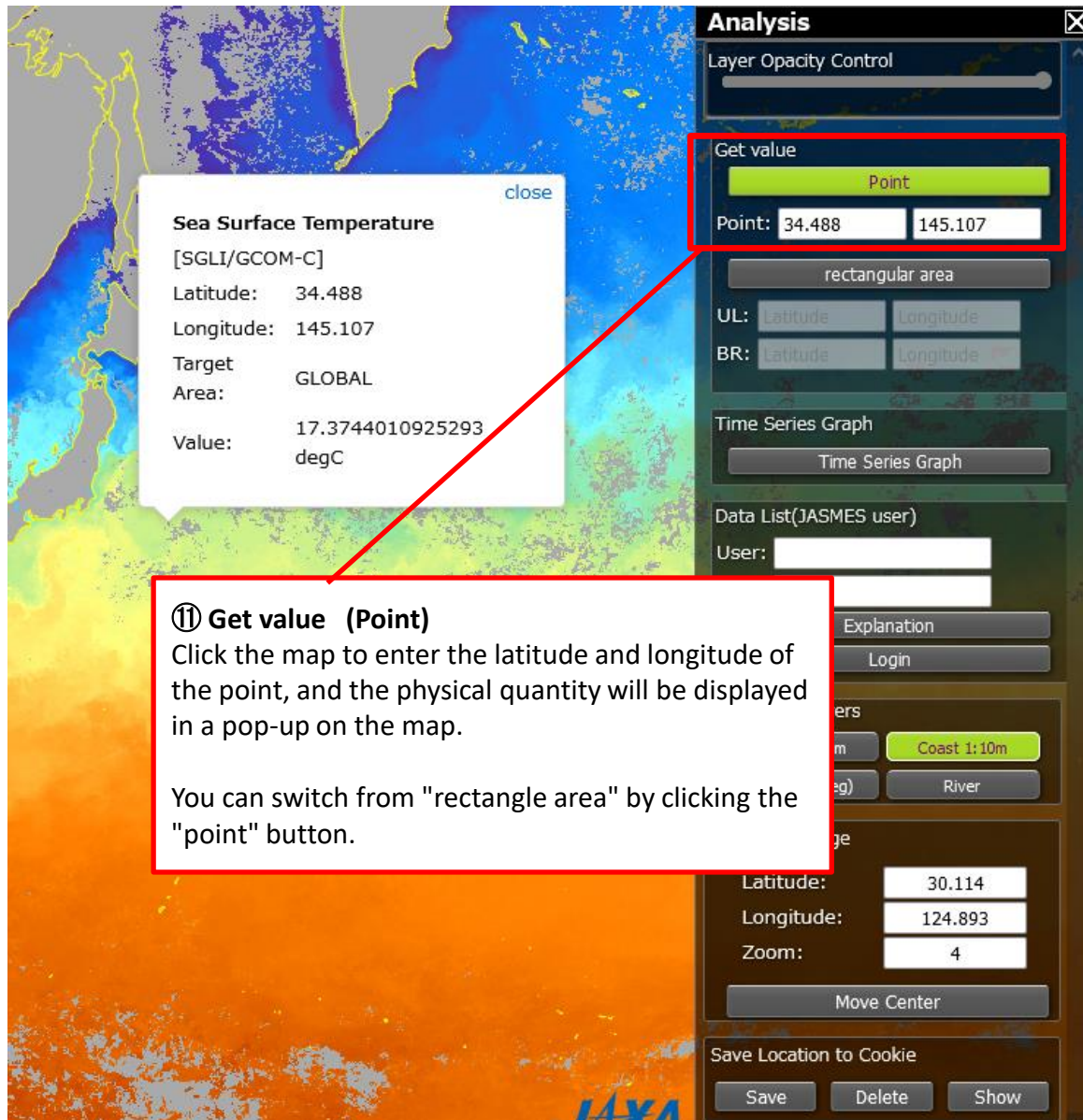
⑩ Single mode/Double mode

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 Map monitor Usage④



Sea Surface Temperature
[SGLI/GCOM-C]
Latitude: 34.488
Longitude: 145.107
Target Area: GLOBAL
Value: 17.3744010925293 degC

Analysis

Layer Opacity Control

Get value

Point

Point: 34.488 145.107

rectangular area

UL: Latitude Longitude
BR: Latitude Longitude

Time Series Graph

Time Series Graph

Data List(JASMES user)

User:

Explanation

Login

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m

Coast 1:10m

g)

River

ge

Latitude: 30.114
Longitude: 124.893
Zoom: 4

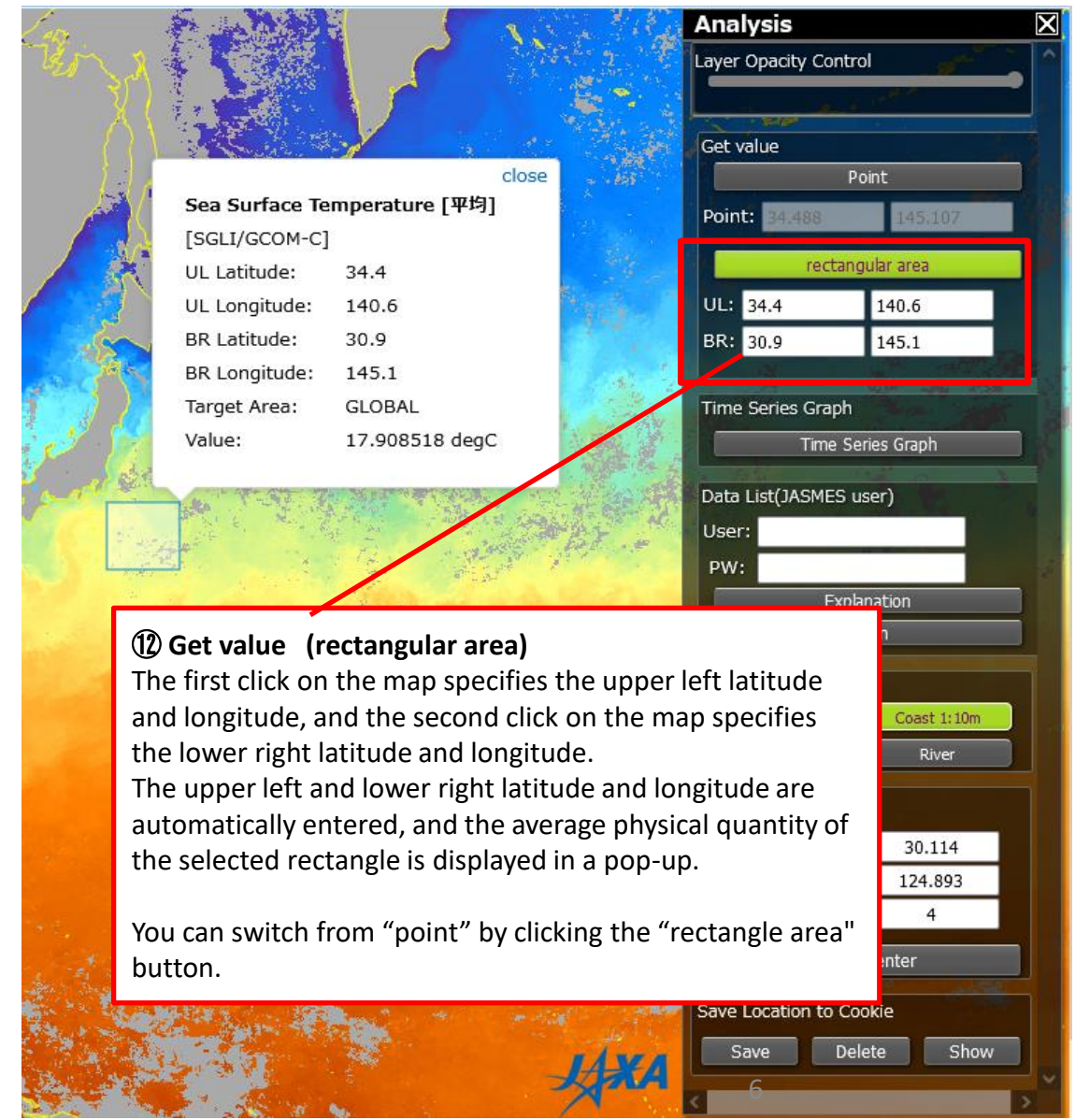
Move Center

Save Location to Cookie

Save Delete Show

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.



Sea Surface Temperature [平均]
[SGLI/GCOM-C]
UL Latitude: 34.4
UL Longitude: 140.6
BR Latitude: 30.9
BR Longitude: 145.1
Target Area: GLOBAL
Value: 17.908518 degC

Analysis

Layer Opacity Control

Get value

Point

Point: 34.488 145.107

rectangular area

UL: 34.4 140.6
BR: 30.9 145.1

Time Series Graph

Time Series Graph

Data List(JASMES user)

User:

PW:

Explanation

Coast 1:10m

River

30.114
124.893
4

inter

Save Location to Cookie

Save Delete Show

6

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.

JASMES Map monitor Usage⑤



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 Latitude: 30.9
BR Longitude: 145.1
Target Area: GLOBAL
Value: 17.908518 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

Layer Opacity Control

Get value

Point

Point: 34.488 145.107

rectangular area

UL: 34.4 140.6

BR: 30.9 145.1

Time Series Graph

Time Series Graph

Data List(JASMES user)

User:

PW:

Explanation

Login

Geographic layers

Coast 1:50m

Coast 1:10m

Lat/Lon (5deg)

River

Location change

Latitude: 30.114

Longitude: 124.893

Zoom: 4

Move Center

Save Location to Cookie

Save

Delete

Show

Time

January - 2022 -

Display or rect value'. Select button.

Note: T will tak

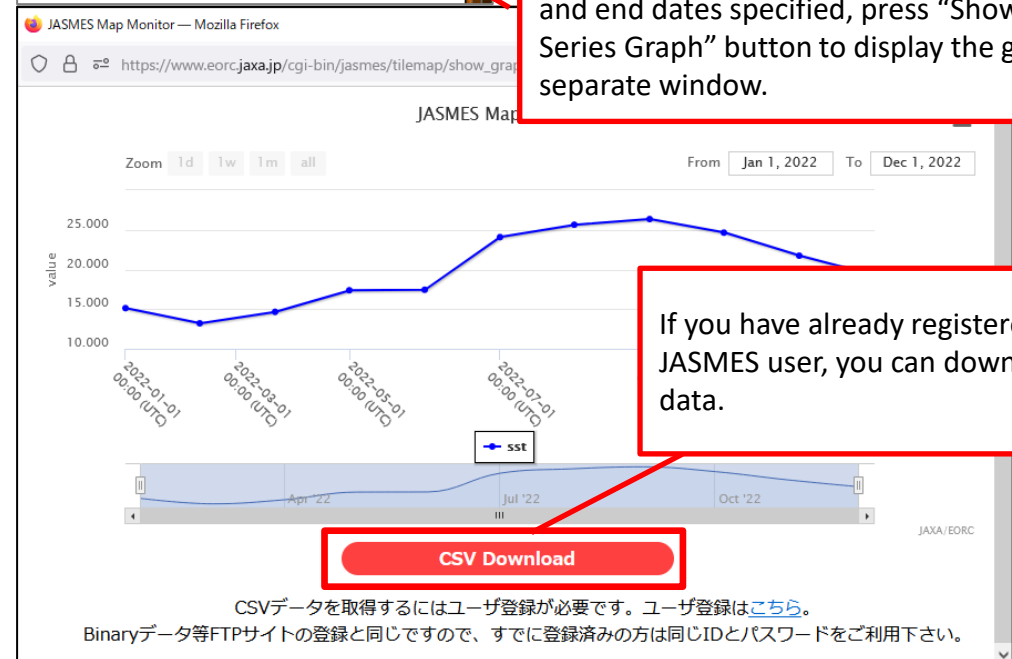
Start: 2022/01/01 (UTC)

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.

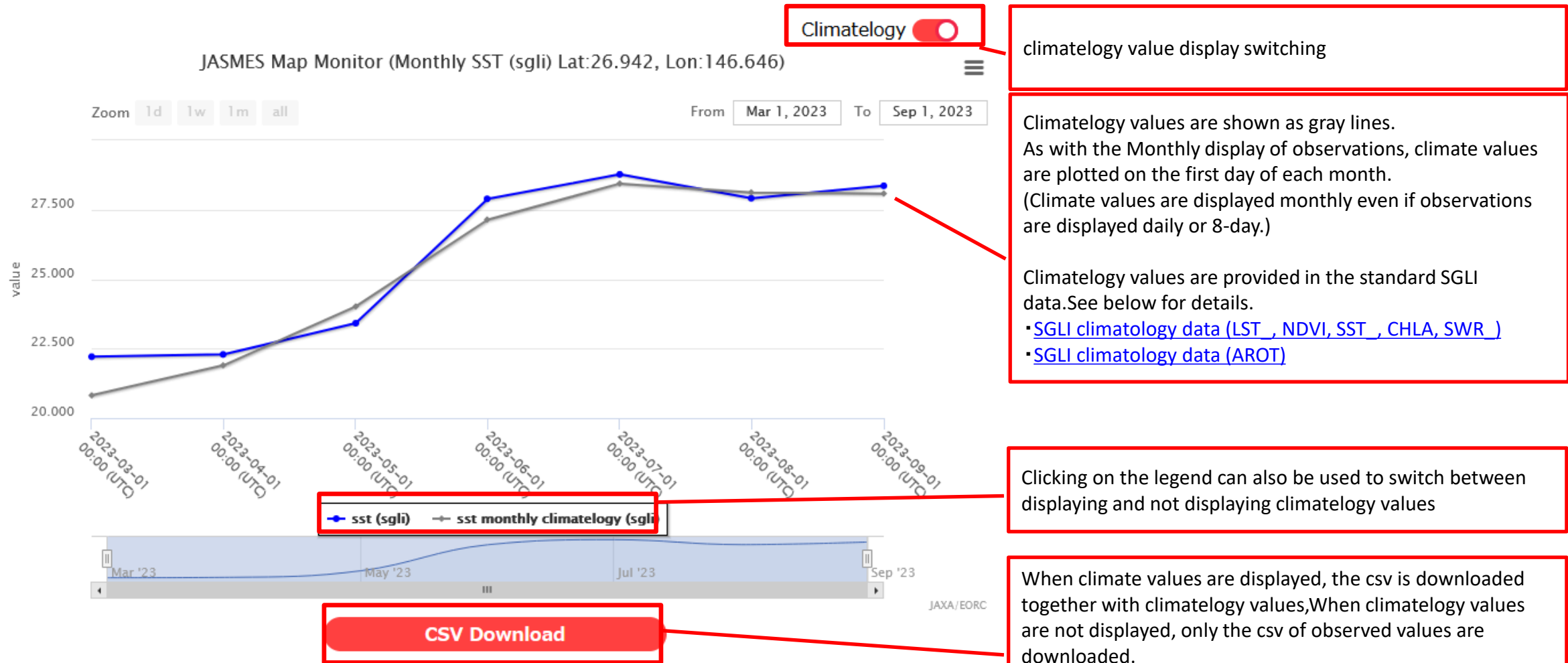
With the latitude and longitude and the start and end dates specified, press "Show Time Series Graph" button to display the graph in a separate window.



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

JASMES Map monitor Usage⑥

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



climatology value display switching

Climatology values are shown as gray lines.
As with the Monthly display of observations, climate values are plotted on the first day of each month.
(Climate values are displayed monthly even if observations are displayed daily or 8-day.)

Climatology values are provided in the standard SGLI data. See below for details.

- [SGLI climatology data \(LST, NDVI, SST, CHLA, SWR\)](#)
- [SGLI climatology data \(AROT\)](#)

Clicking on the legend can also be used to switch between displaying and not displaying climatology values

When climate values are displayed, the csv is downloaded together with climatology values. When climatology values are not displayed, only the csv of observed values are downloaded.
(Climatology values are monthly data even if the observed values are daily or 8-day.)

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 Map monitor Usage⑦

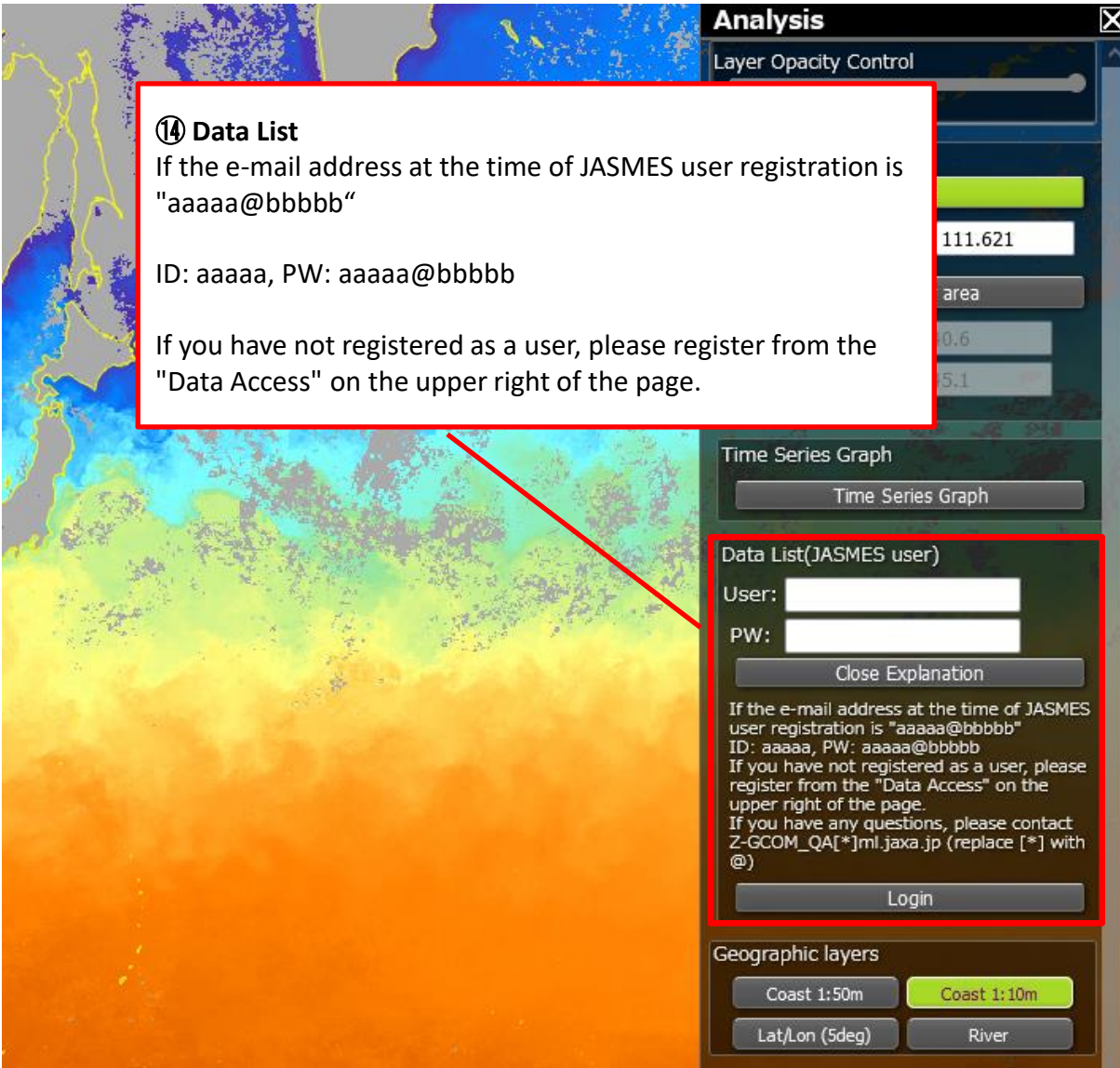
⑭ Data List

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

ID: aaaaa, PW: aaaaa@bbbbbb

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

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.



Analysis

Layer Opacity Control

111.621

area

0.6

5.1

Time Series Graph

Time Series Graph

Data List(JASMES user)

User:

PW:

Close Explanation

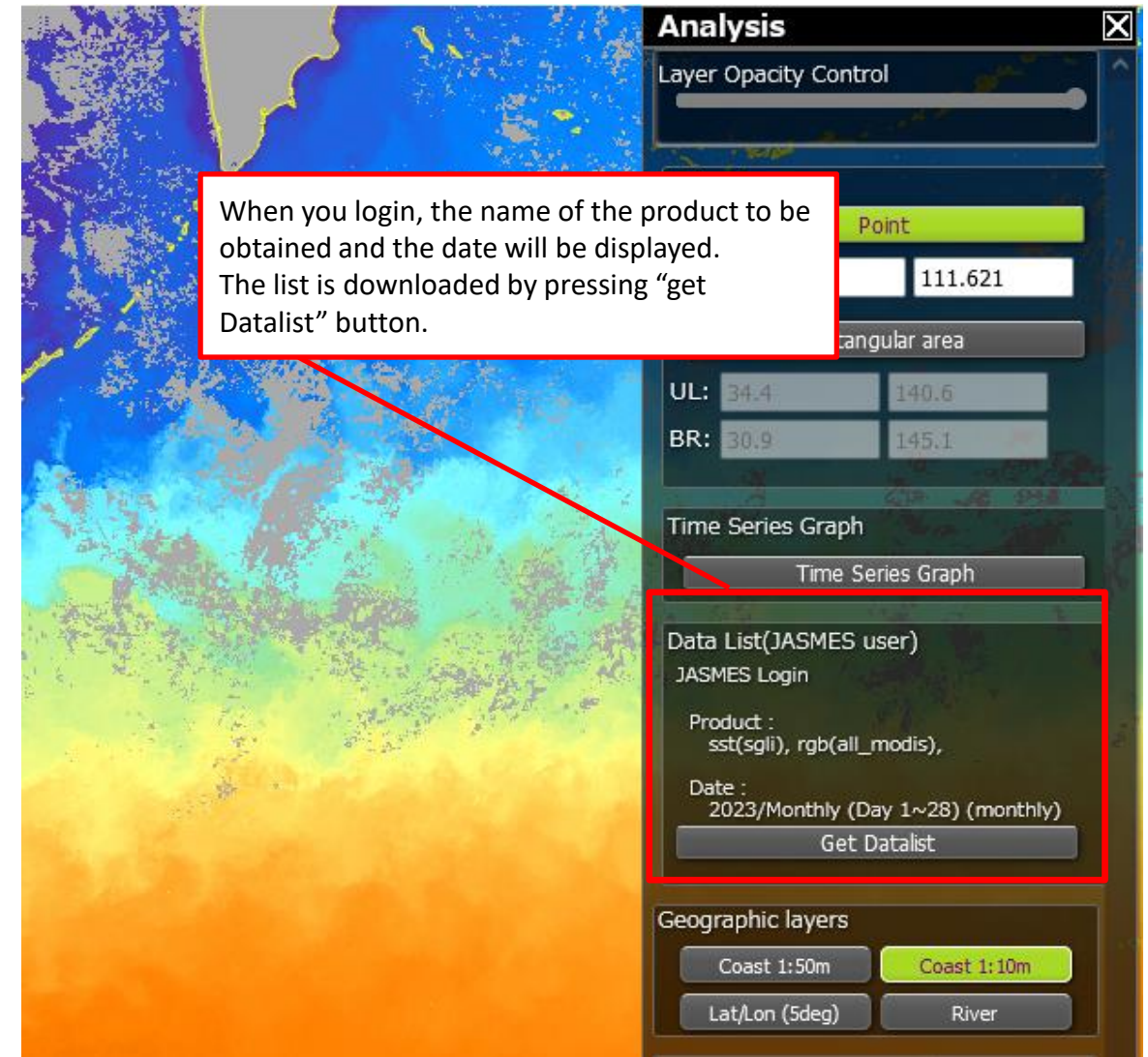
If the e-mail address at the time of JASMES user registration is "aaaaa@bbbbbb"
ID: aaaaa, PW: aaaaa@bbbbbb
If you have not registered as a user, please register from the "Data Access" on the upper right of the page.
If you have any questions, please contact Z-GCOM_QA[*]ml.jaxa.jp (replace [*] with @)

Login

Geographic layers

Coast 1:50m Coast 1:10m

Lat/Lon (5deg) River



Analysis

Layer Opacity Control

Point

111.621

angular area

UL: 34.4 140.6

BR: 30.9 145.1

Time Series Graph

Time Series Graph

Data List(JASMES user)

JASMES Login

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

Date : 2023/Monthly (Day 1~28) (monthly)

Get Datalist

Geographic layers

Coast 1:50m Coast 1:10m

Lat/Lon (5deg) River

JASMES Map monitor Data List



	Product		ID	sensor	Temporal Statistics				Available data period	Note
					daily	8-day	half monthly	monthly		
Atmosphere	光合成有効放射量	Photosynthetically Available Radiation	PAR	Terra and Aqua/MODIS	○	-	○	○	Daily:2013/10/1～、Monthly:2000/3～	
	エアロゾルの光学的厚さ	Aerosol Optical thickness	TAUA	Terra and Aqua/MODIS	○	-	○	○	Daily:2013/8/1～、Monthly:2000/3～	
			AROT	GCOM/SGLI	○	○	-	○	2018/1/1～	
	短波放射量(日射量)	Shortwave Radiation	SWR	Terra/MODIS	○	-	○	-	Daily:2002/3/1～、Monthly:2000/3～	
				Aqua/MODIS	○	-	○	-	Daily:2002/8/8～、Monthly:2002/7～	
				GCOM/SGLI	○	○	-	○	2018/1/1～	
	UV-B	UV-B	UVB	Terra/MODIS	○	-	○	-	Daily:2002/3/1～、Monthly:2000/3～	
				Aqua/MODIS	○	-	○	-	Daily:2002/8/8～、Monthly:2002/7～	
	曇天率	Cloud Cover Rate	CFR	Terra and Aqua/MODIS	-	-	-	○	2000/2～	
Ocean	海面水温	Sea Surface Temperature	SST	Terra/MODIS	○	-	-	-	2010/1/1～	
				Aqua/MODIS	○	-	-	-	2010/1/1～	
				GCOM/SGLI	○	○	-	○	2018/1/1～	
	海面水温 + 地表面温度	Ocean and Land Surface Temperature	OLST	Terra and Aqua/MODIS	○	-	○	○	Daily:2013/10/1～、Monthly:2000/3～	
	クロロフィル濃度a	Phytoplankton abundance (Chlorophyll-a)	CHLA	Terra and Aqua/MODIS	-	-	-	○	2000/3～	
Land	地表面温度	Land Surface Temperature	LST	Terra/MODIS	○	-	-	-	2013/6/17～	
				Aqua/MODIS	○	-	-	-	2013/6/17～	
				GCOM/SGLI	○	○	-	○	2018/1/1～	
	植生分布	Activity of Vegetation (NDVI)	NDVI	Terra and Aqua/MODIS	-	-	○	○	2000/3～	
				GCOM/SGLI	○	○	-	○	2018/1/1～	
	植生乾燥度(水ストレス)	Plant Water Stress Trend (WST)	WST	Terra and Aqua/MODIS	○	-	○	○	Daily:2013/10/23～、Monthly:2002/2～	
	林野火災検知 Daytime	Wild Fire Daytime	WF_D	GCOM/SGLI	○	-	-	-	2018/1/1～	
	林野火災放射量(FRP) Nighttime	Wild Fire(FRP) Nighttime	WF_N	GCOM/SGLI	○	-	-	-	2018/1/1～	
	蒸発散指数	Evapotranspiration Index	ETID	GCOM/SGLI	-	○	○	○	2018/1/1～	
Cryosphere	積雪分布	Snow Cover Extent	CSF	Terra and Aqua/MODIS	-	-	-	○	2000/2～	
	雪氷面温度	Snow and Ice Surface Temperature	SIST	GCOM/SGLI	○	-	○	○	2018/1/1～	
Other	大気補正済み反射率(RGB)	Rayleigh corrected reflectance RGB	RSRF	Terra and Aqua/MODIS	○	-	○	○	Daily:2013/9/18～、Monthly:2007/1～	

JASMES Map monitor 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, the data of Japan will be displayed.

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

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