

# How to use JASMES map monitor

Ver.1 : 2023/03/16

Ver.2 : 2024/01/18

Ver.3 : 2024/03/25

# JASMES Map monitor Usage



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

# JASMES Map monitor Usage ①



The screenshot shows the JASMES Map monitor interface. A red box highlights the date selection area at the top, which includes a 'Date:' label, a year dropdown (2024), a month dropdown (1), a 'Monthly (Day 1~31)' dropdown, and a 'Search Date' button. Below this, another red box highlights the 'Half-Monthly / Monthly' button in the 'Daily', '8-day', and 'Half-Monthly / Monthly' row. A third red box highlights the 'What's New' section on the left, which contains a list of updates. A fourth red box highlights the 'Term' section on the right, which contains instructions on how to switch between different time periods.

**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 "③Product" again.

**Map Menu**

Sensor

Satellite orbit direction

Obs / Anomaly

Anomaly images are 8-day, monthly only

Product

Atmosphere

Ocean

Land

Cryosphere

Base Map

**What's New**

2024/02/27 Total Evapotranspiration was added to JASMES Map Monitor. Please refer to [FAQ](#) about ET.

2024/02/26 **NEW** Due to the system maintenance, processing of JASMES products will be delayed or unavailable during the following period. Feb. 26, 2024 01:00 - 06:00(UTC): Web and FTP unavailable

2024/01/18 **NEW** Climatology values can also be displayed in a time series graph. Please refer to [here](#) to How to use JASMES Map monitor.

2023/12/20 Processing of JASMES products are delayed. We will inform you after the service is restored.

**Analysis**

Single mode Double mode

Layer Opacity Control

Get value

Point:

UL:   BR:

Time Series Graph

Data List (JASMES user)

ID:  PW:

Geographic layers

Location change

Latitude:  Longitude:  Zoom:

Save Location to Cookie

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# JASMES Map monitor Usage ②



The screenshot shows the JASMES Map monitor 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 a 'Map Menu' and 'What's New' section, a central map area, and a right sidebar with 'Analysis' and 'Geographic layers' sections. The 'Map Menu' section is highlighted with a red box and contains several sub-sections: 'Sensor' (with buttons for SGLI [GCOM-C], MODIS [All], MODIS [Aqua], and MODIS [Terra]), 'Satellite orbit direction' (with buttons for Ascending and Descending), 'Obs / Anomaly' (with buttons for Observation and Anomaly), 'Product' (with buttons for Atmosphere, Ocean, Land, and Cryosphere), and 'Base Map' (with a dropdown menu for white map). The 'What's New' section contains a list of updates. The 'Analysis' section includes a 'Layer Opacity Control' slider, a 'Get value' section with buttons for Point, rectangular area, and Time Series Graph, and a 'Data List (JASMES user)' section with input fields for ID, PW, and Explanation, and buttons for Login and Save Location to Cookie. The 'Geographic layers' section includes buttons for Coast 1:50m, Coast 1:10m, Lat/Lon (Sdeg), and River. The 'Location change' section includes input fields for Latitude, Longitude, and Zoom, and a Move Center button. The 'Save Location to Cookie' section includes buttons for Save, Delete, and Show. The bottom of the interface features a color scale bar for temperature (0 to 30 degC) and a scale bar (0 to 1000 km). The footer contains copyright information and links for What's new, Contact, Questionnaire, and Terms of Use of Research Data.

**③ Sensor**  
Please select by clicking the button.  
Selectable sensors differ depending on the product.

**④ Satellite orbit direction**  
Please select by clicking the button.  
(Grayed out if not selectable)

**⑤ Obs / Anomaly**  
Please select by clicking the button.  
(Grayed out if not selectable)

Deviation from climatology value (anomaly) can be displayed for some Product in SGLI (8-day, monthly). Please click [here](#) for the list of applicable Products.

**⑥ Product**  
Please select from the list of physical quantities displayed by clicking the button.



# JASMES Map monitor Usage ③



The screenshot shows the JASMES Map monitor 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 a left sidebar, a central map area, and a right sidebar. The left sidebar contains the Map Menu with sections for Sensor (SGLI, MODIS), Satellite orbit direction (Ascending, Descending), Obs / Anomaly (Observation, Anomaly), Product (Atmosphere, Ocean, Land, Cryosphere), and Base Map (white map). The central map area displays a satellite image of the Earth with a color scale at the bottom. The right sidebar contains the Analysis section with Layer Opacity Control, Get value (Point, rectangular area), Time Series Graph, Data List (JASMES user), Geographic layers (Coast 1:50m, Coast 1:10m, Lat/Lon 5deg, River), and Location change (Latitude, Longitude, Zoom, Move Center, Save Location to Cookie). Annotations are provided for several key features:

- 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 Layer Opacity Control**  
You can change the Layer Opacity displayed on the map by sliding the bar.
- ⑨ Geographic layers**  
Display geographic information on a map. You can switch display/non-display by clicking. Multiple selection is possible.
- ⑩ 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.

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# JASMES Map monitor Usage ④



Last Update: Mar. 04, 2024 15:01:06 UTC  
Date: 2024 1 Monthly (Day 1~31) Search Date  
-1 year -1 month Latest +1 month +1 year

日本語

Daily 8-day Half-Monthly / Monthly

Link Map Unlink Map

Single mode Double mode

**Map Menu**

Sensor  
SGLI [GCOM-C] MODIS [All]  
MODIS [Aqua] MODIS [Terra]

Satellite orbit direction  
Ascending Descending

Obs / Anomaly  
Anomaly images are 8-day, monthly only  
Observation Anomaly

Product

**Atmosphere**  
Aerosol Optical thickness[WL=500nm]  
Shortwave Radiation

**Ocean**  
Sea Surface Temperature  
Phytoplankton abundance (Chlorophyll-a)

**Land**  
Land Surface Temperature  
Activity of Vegetation (NDVI)  
Wild Fire(FRP) Nighttime  
Wild Fire Daytime  
Total Evapotranspiration

**Cryosphere**  
Snow and Ice Surface Temperature

Base Map  
white map

**What's New**

2024/02/27 Total Evapotranspiration was added to JASMES Map Monitor. Please refer to FAQ about ET.

2024/02/26 **NEW** Due to the system maintenance, processing of JASMES products will be delayed or unavailable during the following period. Feb. 26, 2024, 01:00 - 06:00(UTC): Web and FTP unavailable

2024/01/18 Climatological values can also be displayed in a

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

**① 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

**Analysis**

Layer Opacity Control

Get value  
Point  
Point: Latitude Longitude  
rectangular area  
UL: BR:

Time Series Graph  
Time Series Graph

Data List(JASMES user)  
ID: 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

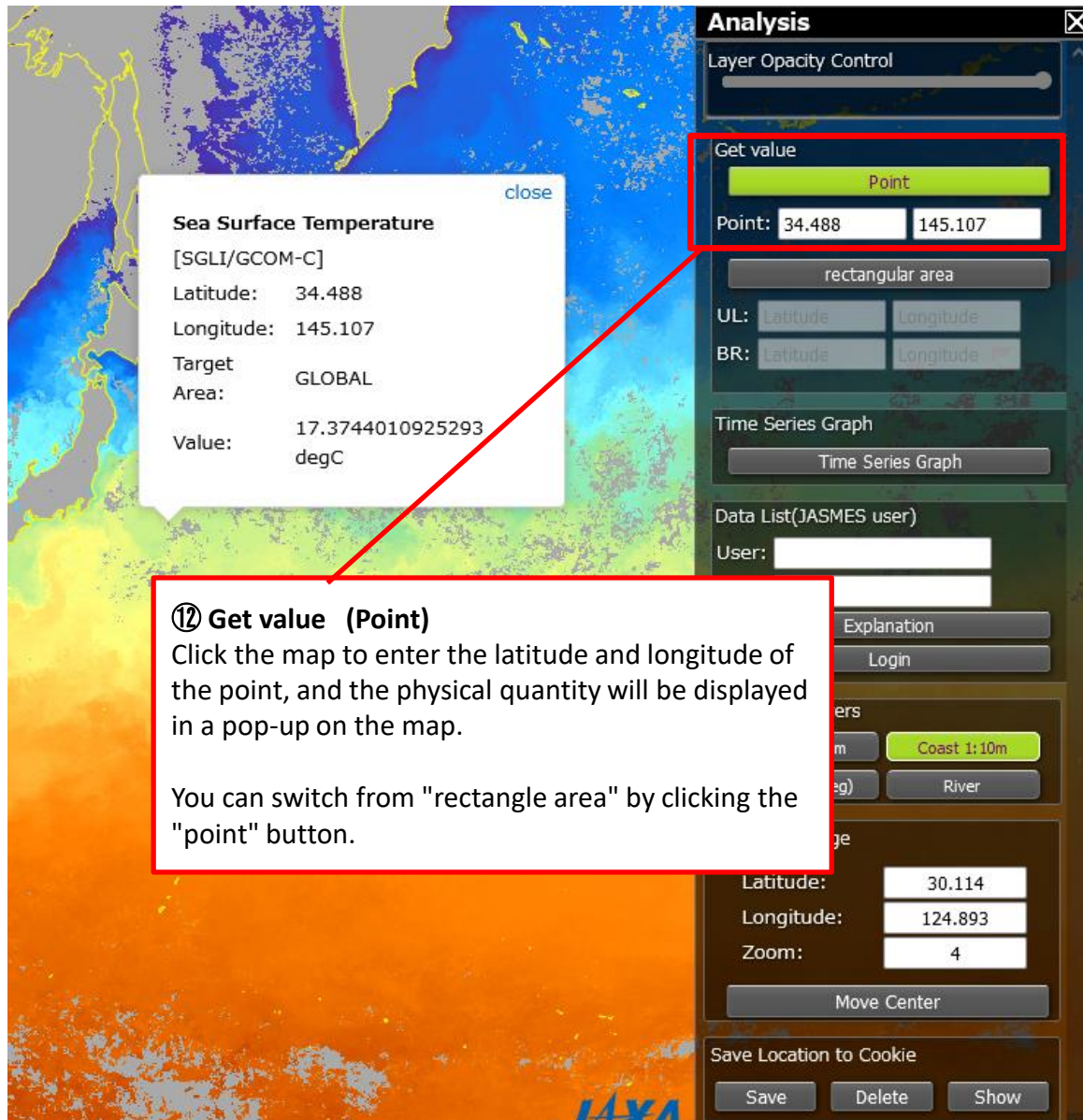
Save Location to Cookie  
Save Delete Show

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# JASMES Map monitor Usage ⑤



**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

ers

m

Coast 1:10m

g)

River

ge

Latitude: 30.114  
Longitude: 124.893  
Zoom: 4

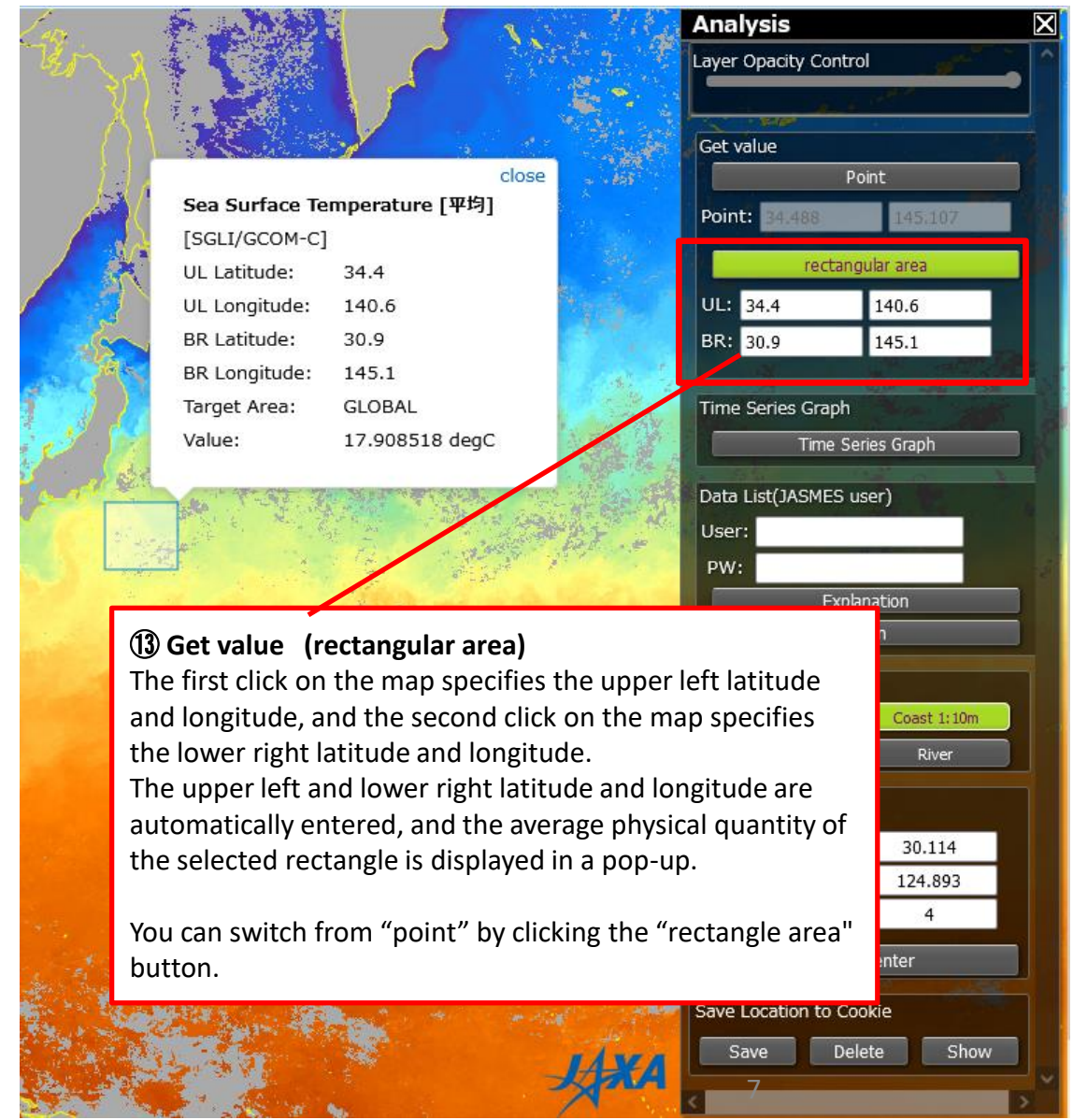
Move Center

Save Location to Cookie

Save Delete Show

**⑫ 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

**⑬ 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 Usage ⑥



## ⑭ 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

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.

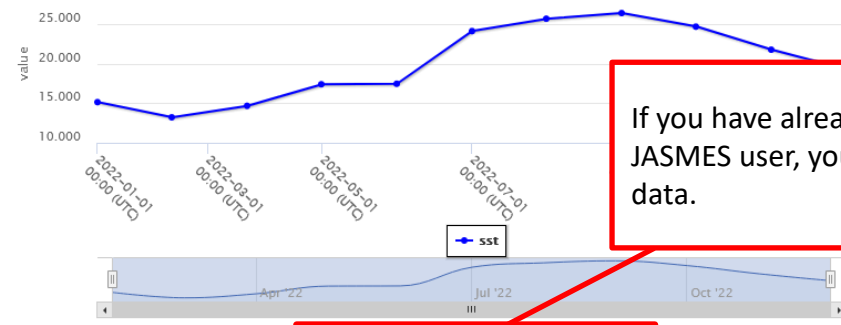
JASMES Map Monitor — Mozilla Firefox

https://www.eorc.jaxa.jp/cgi-bin/jasmes/tilemap/show\_gra

JASMES Map

Zoom 1d 1w 1m all

From Jan 1, 2022 To Dec 1, 2022



CSV Download

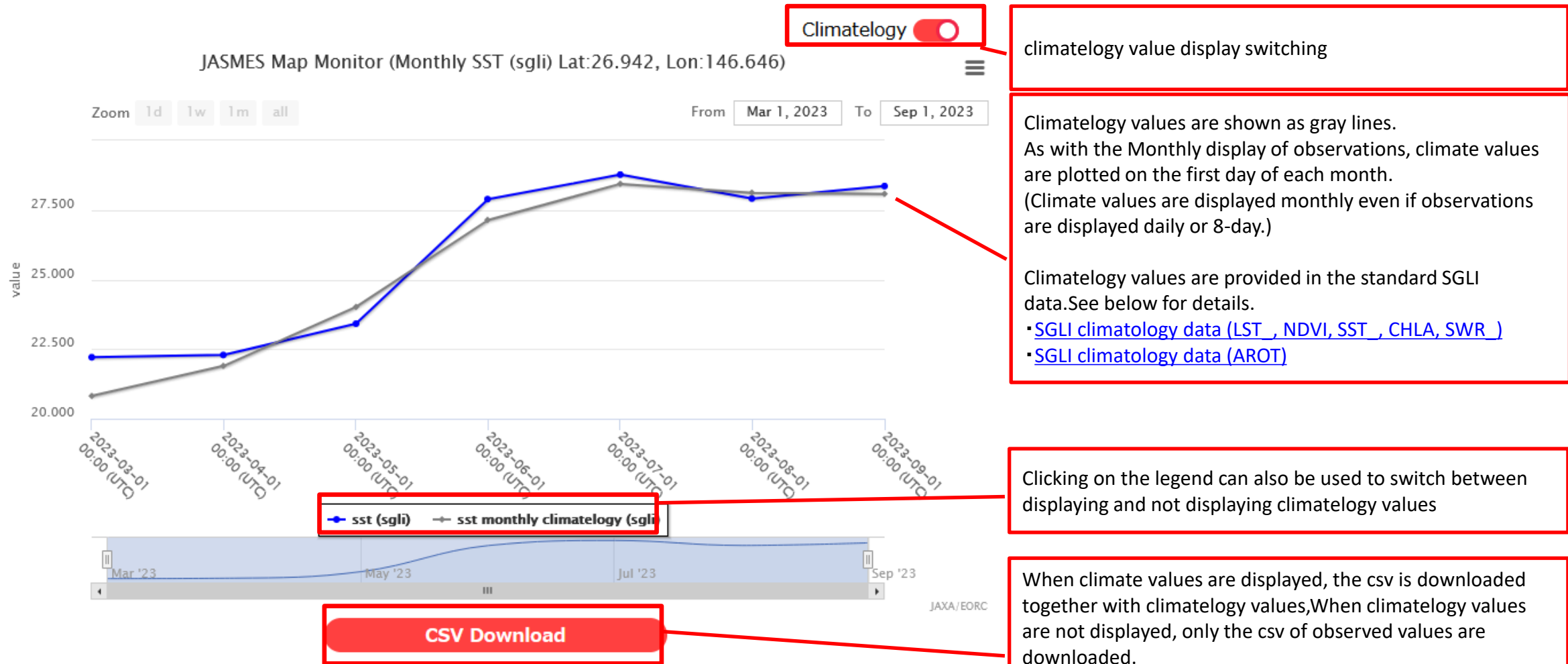
If you have already registered as a JASMES user, you can download csv data.

CSVデータを取得するにはユーザ登録が必要です。ユーザ登録は[こちら](#)。  
Binaryデータ等FTPサイトの登録と同じですので、すでに登録済みの方は同じIDとパスワードをご利用下さい。



# JASMES Map monitor 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 Map monitor Usage ⑧

## ⑮ Data List

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

ID: aaaaa, PW: aaaaa@bbbbb

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.

## Data List(JASMES user)

JASMES Login

Product :  
sst(sgll), rgb(all\_modis),

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

Get Datalist

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	8-day anomaly	monthly anomaly		
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:2011/10/1～、Monthly:2000/3～	
			AROT	GCOM/SGLI	○	○	-	○	○	○	2018/1/1～	
	短波放射量(日射量)	Shortwave Radiation	SWR	Terra/MODIS	○	-	○	-	-	-	Daily:2002/1/1～、Monthly:2000/3～	
				Aqua/MODIS	○	-	○	-	-	-	Daily:2002/1/1～、Monthly:2002/7～	
				GCOM/SGLI	○	○	-	○	○	○	2018/1/1～	
	UV-B	UV-B	UVB	Terra/MODIS	○	-	○	-	-	-	Daily:2002/1/1～、Monthly:2000/3～	
				Aqua/MODIS	○	-	○	-	-	-	Daily:2002/1/1～、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:2011/1/1～、Monthly:2000/3～	
	クロロフィル濃度a	Phytoplankton abundance (Chlorophyll-a)	CHLA	Terra and Aqua/MODIS	-	-	-	○	-	-	2000/3～	
				GCOM/SGLI	○	○	-	○	○	○	2018/1/1～	
Land	地表面温度	Land Surface Temperature	LST	Terra/MODIS	○	-	-	-	-	-	2011/1/1～	
				Aqua/MODIS	○	-	-	-	-	-	2011/1/1～	
				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:2002/10/1～、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～	
	蒸発散量	Total Evapotranspiration	ET	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:2011/1/1～	

# 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](https://www.eorc.jaxa.jp/JASMES/SGLI_STD/about_sglistd_j.html)

MODIS: [https://kuroshio.eorc.jaxa.jp/JASMES/datalist\\_j.html](https://kuroshio.eorc.jaxa.jp/JASMES/datalist_j.html)