

How to use JASMES Image Analyzer

Ver.1 : 2024/11/13

Ver.2 : 2025/02/25

Ver.3 : 2025/07/02

Ver.4 : 2025/10/03

Ver.5 : 2025/10/31

Ver.6 : 2026/02/13

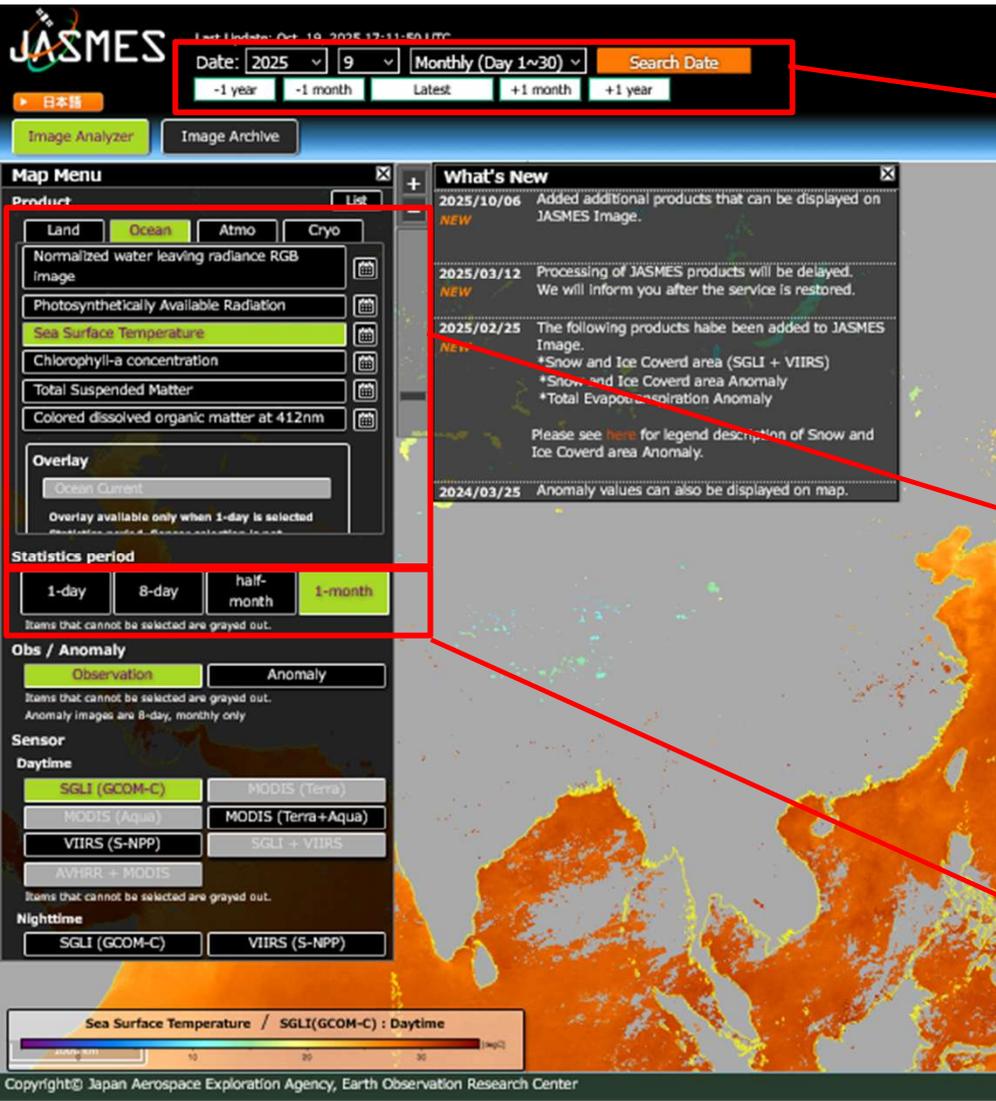
JASMES Image Analyzer Usage



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- [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



Product List

Land **Ocean** Atmo Cryo

Normalized water leaving radiance RGB image

Photosynthetically Available Radiation

Sea Surface Temperature

Chlorophyll-a concentration

Total Suspended Matter

Colored dissolved organic matter at 412nm

Overlay

Ocean Current

Overlay available only when 1-day is selected

By clicking the calendar button next to the product button, you can view the data provision periods by region for each product.

If necessary, switch between the table view and the timeline chart view at the top to check the information.

Sea Surface Temperature - Available Periods

Last updated: 2025-10-30 23:00:02 UTC

Show Table Show Timeline Chart

Area

Global Japan

Observation

Sensor	1-day	8-day	Half-month	1-month
SGLI(GCOM-C) Daytime	2018-01-22 - 2025-10-28	2018-01-17 - 2025-10-16	-	2018-01 - 2025-09
MODIS(Terra)	2010-01-01 - 2025-10-27	-	-	-
MODIS(Aqua)	2010-01-01 - 2025-10-27	-	-	-
VIIRS(S-NPP) Daytime	2018-01-01 - 2025-10-27	-	-	2018-01 - 2025-10
SGLI(GCOM-C) Nighttime	2018-01-22 - 2025-10-28	2018-01-17 - 2025-10-16	-	2018-01 - 2025-09
VIIRS(S-NPP) Nighttime	2018-01-01 - 2025-10-27	-	-	2018-01 - 2025-10
MODIS(Terra+Aqua)	2013-08-01 - 2025-10-27	-	2001-06-01 - 2025-10-01	2000-03 - 2025-09

Anomaly

Sensor	1-day	8-day	Half-month	1-month
SGLI(GCOM-C) Daytime	-	2018-01-17 - 2025-10-16	-	2018-01 - 2025-09
SGLI(GCOM-C) Nighttime	-	2018-01-17 - 2025-10-16	-	2018-01 - 2025-09
MODIS(Terra+Aqua)	-	-	2008-01-01 - 2025-08-16	2008-01 - 2025-08

Sea Surface Temperature - Available Periods

Last updated: 2025-10-30 23:00:02 UTC

Show Table Show Timeline Chart

Area

Global Japan

Statistics period

1-day 8-day Half-month 1-month

Observation

Sea Surface Temperature (Global)

Statistics period: 1-day

Sensor	Start Date	End Date
SGLI(GCOM-C) Daytime	2018-01-22	2025-10-28
MODIS(Terra)	2010-01-01	2025-10-27
MODIS(Aqua)	2010-01-01	2025-10-27
VIIRS(S-NPP) Daytime	2018-01-01	2025-10-27
SGLI(GCOM-C) Nighttime	2018-01-22	2025-10-28
VIIRS(S-NPP) Nighttime	2018-01-01	2025-10-27
MODIS(Terra+Aqua)	2013-08-01	2025-10-27



JASMES Image Analyzer Usage ③

④ Obs / Anomaly
Please select by clicking the button. (Grayed out if not selectable)

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

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.

⑤ Sensor (Daytime / Nighttime)
Please select by clicking the button. Selectable sensors differ depending on the product.

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 ④

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.

Sea Surface Temperature / SGLI(GCOM-C) : Daytime

JASMES Image Analyzer Usage ⑤



The screenshot shows the JASMES Image Analyzer interface. At the top, there's a navigation bar with 'JASMES TOP', 'EORC GCOM-C', 'User Guide', 'About Data', 'Data Processing', and 'FAQ'. Below this, a search bar allows filtering by date (2024, 10, Monthly) and time range (-7 Day to +7 Day). A 'Link Map' and 'Unlink Map' button pair is highlighted with a red box. To the right, 'Single mode' and 'Double mode' buttons are also highlighted with a red box. The main area is divided into several panels: 'Map Menu' (left), 'What's New' (top center), 'Map Menu' (right), 'Analysis' (far right), and a central map area. The 'Map Menu' on the left includes options for 'Phytoplankton abundance (Chlorophyll-a)', 'Ocean Current', and 'Statistics period' (1-day, 8-day, half-month, 1-month). The 'What's New' panel contains a 'NEW' announcement dated 2025/03/12 about service delays and another dated 2025/02/25 about new products like Snow and Ice Coverd area and Total Evapotranspiration. The 'Map Menu' on the right lists products such as Land Surface Temperature, NDVI, WST, and 'Rayleigh corrected reflectance RGB' (highlighted). The 'Analysis' panel includes a 'Time Series Graph' and a 'Data List' section. The 'Map settings' panel on the far right allows for 'Layer Opacity Control', 'Base Map' selection (Left: white map, Right: white map), 'Geographic layers' (Coast 1:50m, Coast 1:10m, Lat/Lon 5deg, River), and 'Location change' (Latitude: 35, Longitude: 135, Zoom: 4). The bottom of the interface shows a color scale for 'Sea Surface Temperature / SGLI(GCOM-C) : Daytime' and a legend for 'Physical Parameter: SGLI, Coastline: Natural Earth'. A scale bar indicates 1000 km.

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 ⑥



Sea Surface Temperature
[SGLI(GCOM-C)]
Latitude: 42.261
Longitude: 146.821
Target Area: GLOBAL
Value: 14.4596004486084 degC

Analysis
Analysis of products
Get value
Point
point: 42.261 146.821
show point
rectangular area
UL: latitude longitude
BR: latitude longitude
show rectangle
Time Series Graph
Time Series Graph

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.

Sea Surface Temperature [平均]
[SGLI(GCOM-C)]
UL Latitude: 42.1
UL Longitude: 144.3
BR Latitude: 40.4
BR Longitude: 146.8
Target Area: GLOBAL
Value: 18.754932 degC

Analysis
Analysis of products
Get value
Point
point: 42.261 146.821
show point
rectangular area
UL: 42.1 144.3
BR: 40.4 146.8
show rectangle
Time Series Graph
Time Series Graph

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 ⑦

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.

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

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: (UTC)

End: (UTC)

Show Time Series Graph

Time January - 2022 -

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Display or rectangular value'.
 Select button.

Note: 1 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 Td 1w 1m all

From Jan 1, 2022 To Dec 1, 2022

value

25.000

20.000

15.000

10.000

2022-01-01 00:00 UTC

2022-03-01 00:00 UTC

2022-05-01 00:00 UTC

2022-07-01 00:00 UTC

sst

Jul '22

Oct '22

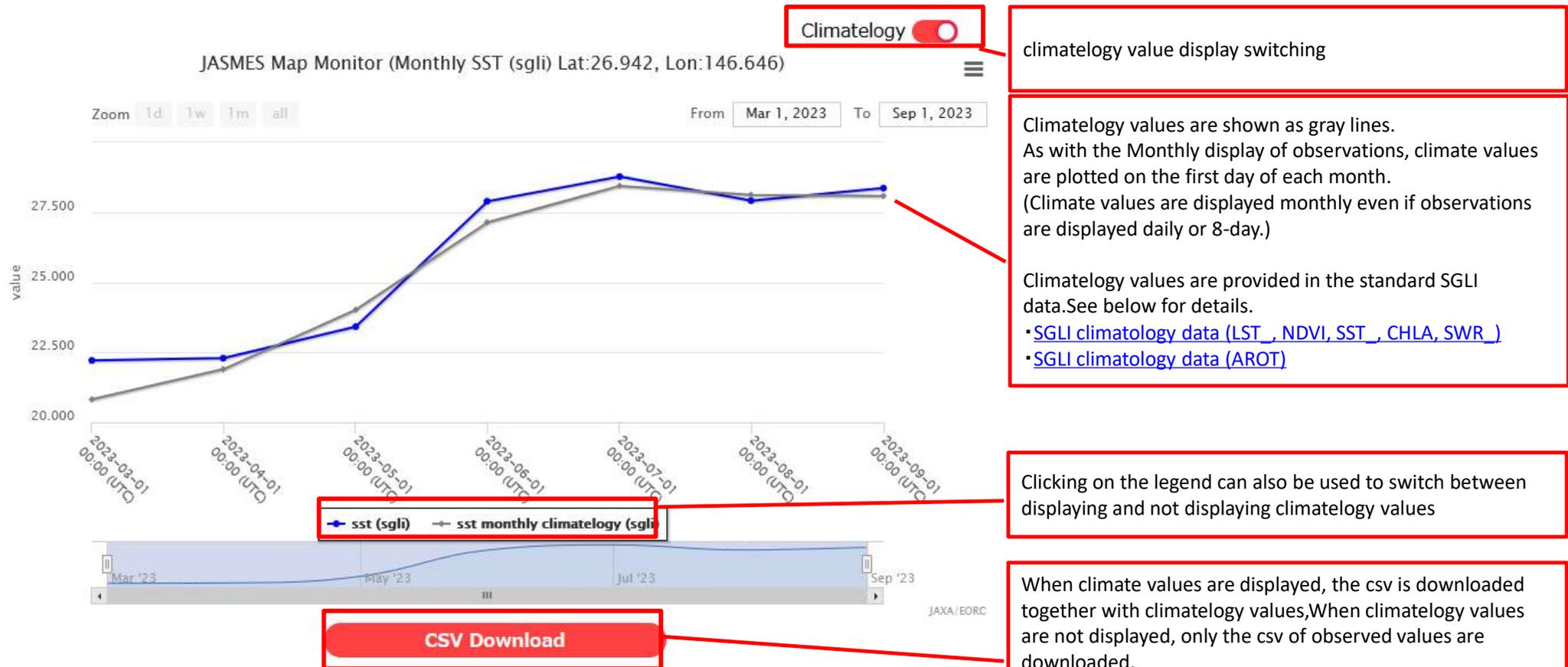
CSV Download

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。

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

JASMES Image Analyzer Usage ⑧

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 Image Analyzer Usage ⑨



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:

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

Data List(JASMES user)

JASMES Login

Product :
sst(sg1i), rgb(all_modis),

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

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~		
			VIIRS (NOAA20)	○	-	-	○	-	-	2024/1/1~		
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~		
	Activity of Vegetation (NDVI)	NDVI	Terra and Aqua/MODIS	○	-	○	○	-	○	2000/3~		
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~		
	Leaf Area Index	LAI	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Above Ground Biomass	AGB	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Fraction of Absorbed Photosynthetically Active Radiation	FPAR	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	Terra and Aqua/MODIS	○	-	○	○	-	-			
			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	-	○	○	○	○	○	2003/1 ~ 2022/12			
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 (S-NPP)	○	-	-	○	-	-	2017~		
			VIIRS (NOAA20)	○	-	-	○	-	-	2025/11/1~		
				GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
				Ocean and Land Surface Temperature	OLST	Terra and Aqua/MODIS	○	-	○	○	-	-
	Phytoplankton abundance (Chlorophyll-a)	CHLA	Terra and Aqua/MODIS	-	-	○	○	-	○	2000/3~		
			VIIRS (S-NPP)	○	-	-	○	-	-	2017~		
			VIIRS (NOAA20)	○	-	-	○	-	-	2025/11/1~		
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~		
	Total suspended matter	TSM	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Colored dissolved organic matter	CDOM	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Normalized water leaving radiance RGB image	NWLR	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ocean Current	-	SGLI + OLCI	○	-	-	-	-	-	2018/1~		

JASMES Image Analyzer Data List

		ID	sensor	Temporal Statistics						Available data period	Note	
				daily	8-day	half monthly	monthly	8-day anomaly	monthly anomaly			
Atmosphere	Aerosol Optical thickness	TAUA	Terra and Aqua/MODIS	○	-	○	○	-	○	Daily:2011/10/1~、Monthly:2000/3~		
			VIIRS (S-NPP)	○	-	-	○	-	-	2017~		
			VIIRS (NOAA20)	○	-	-	○	-	-	2025/11/1~		
			AROT	GCOM/SGLI	○	○	-	○	○	○	2018/1/1~	
	Aerosol_Angstrom_Exponent over Land	ARAE	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Single_Scattering_Albedo over Land and Ocean	ASSA	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 (S-NPP)	○	-	-	○	-	-	2017~		
			VIIRS (NOAA20)	○	-	-	○	-	-	2025/11/1~		
			GCOM/SGLI	○	○	-	○	○	○	2018/1/1~		
	Temperature of CLOUD Top layer	CLTT	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Optical Thickness of water cloud droplets	COTW	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Cloud type composite	CFRG	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Cirrus)	CFR1	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Cirrostratus)	CFR2	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Deep convection)	CFR3	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Alto-cumulus)	CFR4	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Altostratus)	CFR5	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Nimbostratus)	CFR6	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Cumulus)	CFR7	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Strato-cumulus)	CFR8	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Stratus)	CFR9	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (ALL)	CFRA	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (High)	CFRH	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Middle)	CFRM	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Ratio of the number of cloud pixels (Low)	CFRL	GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
	Cloud flag	CLFG	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 (S-NPP)			○	-	-	○	-	-	2017~			
VIIRS (NOAA20)			○	-	-	○	-	-	2025/11/1~			
GCOM/SGLI			○	○	-	○	-	-	2018/1/1~			
Cloud Cover Rate	CFR	Terra and Aqua/MODIS	-	-	-	○	-	-	2000/2~			
Cryosphere	Snow Cover Extent	CSF	Terra and Aqua/MODIS	-	-	-	○	-	○	2000/2~		
			GCOM/SGLI	○	○	-	○	-	-	2018/1/1~		
			SGLI + VIIRS	○	-	○	○	-	○	2018/2/1~		
	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