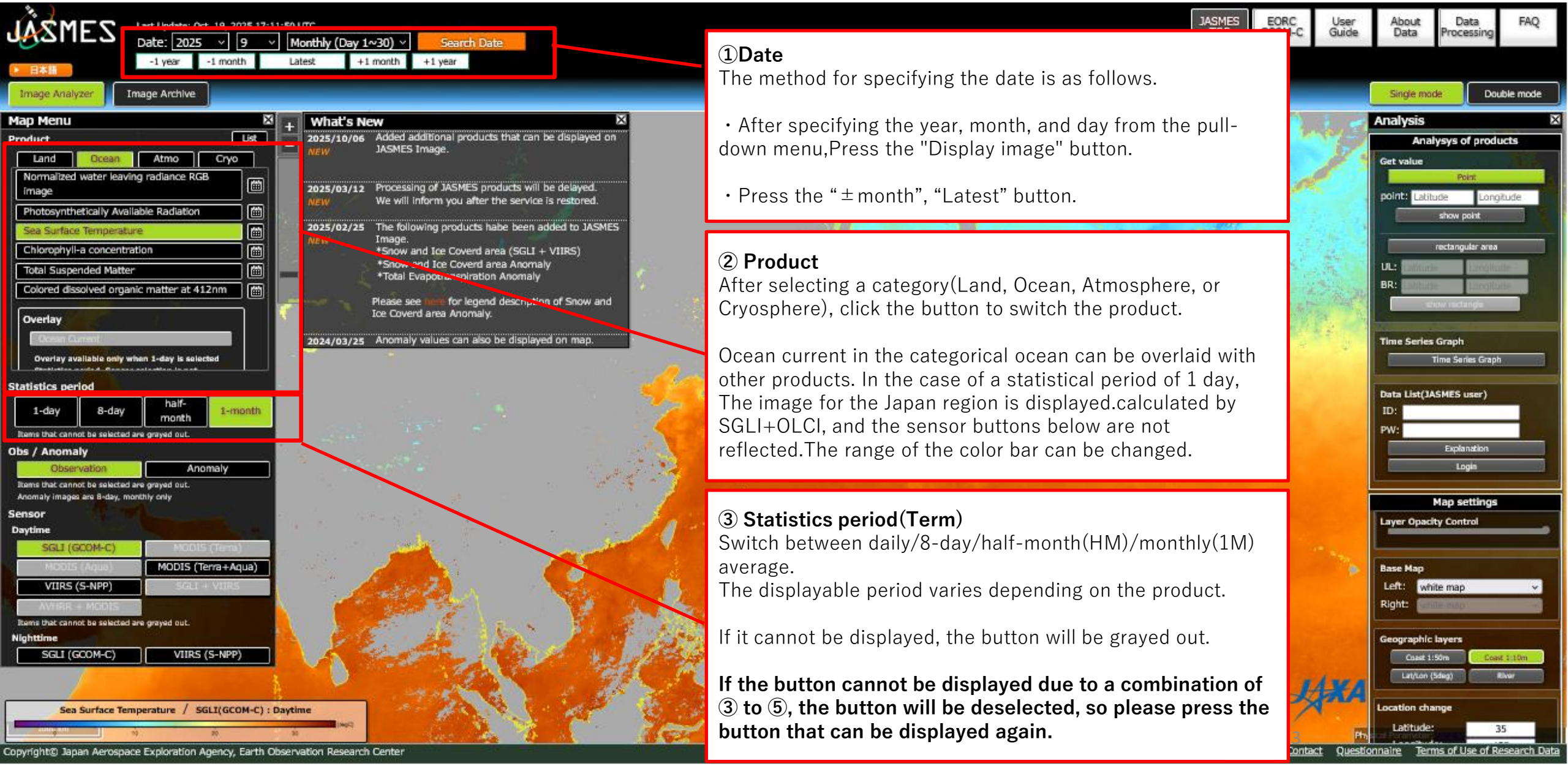
How to use JASMES Image Analyzer

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
Ver.7 : 2026/03/10

JASMES Image Analyzer Usage

- JASMES Image Analyzer Usage
- Data list
- Data resolution

JASMES Image Analyzer Usage ①



①Date
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.

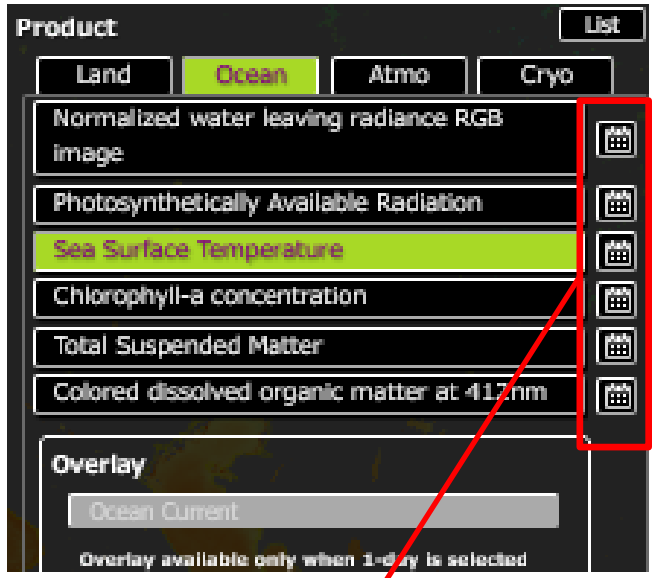
Ocean current in the categorical ocean can be overlaid with other products. In the case of a statistical period of 1 day, The image for the Japan region is displayed.calculated by SGLI+OLCI, and the sensor buttons below are not reflected.The range of the color bar can be changed.

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.

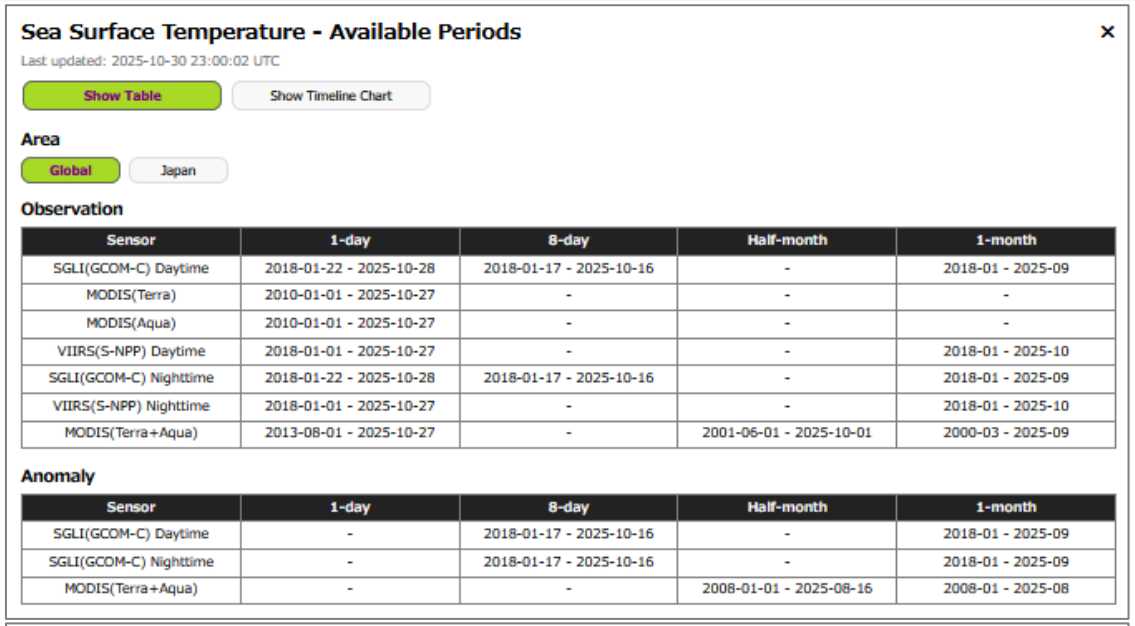
If the button cannot be displayed due to a combination of ③ to ⑤, the button will be deselected, so please press the button that can be displayed again.

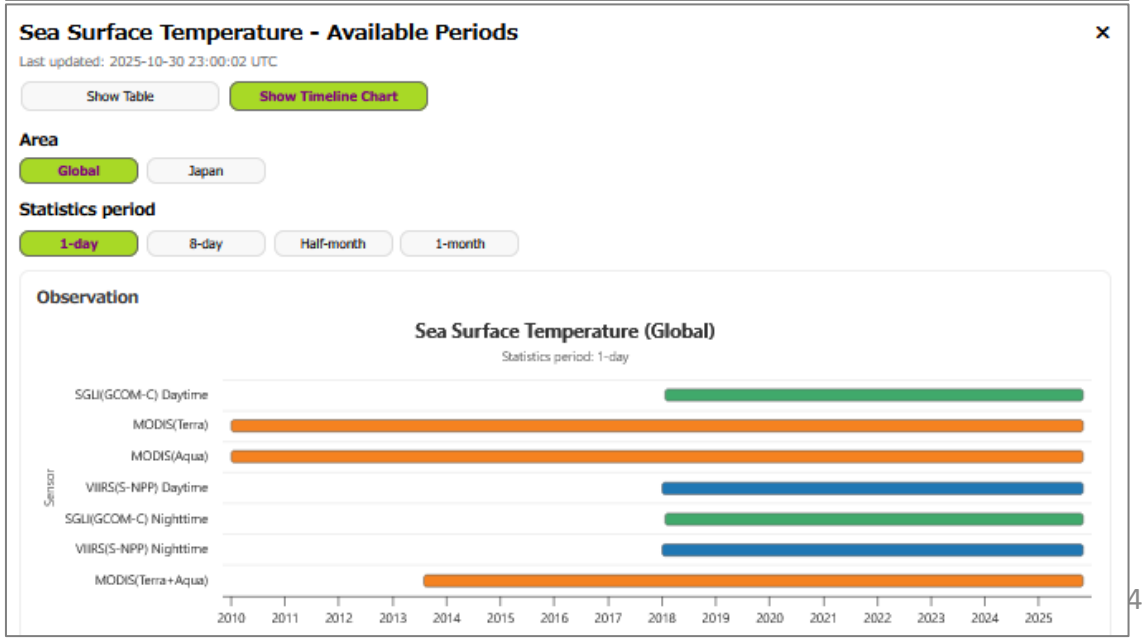
JASMES Image Analyzer Usage ②



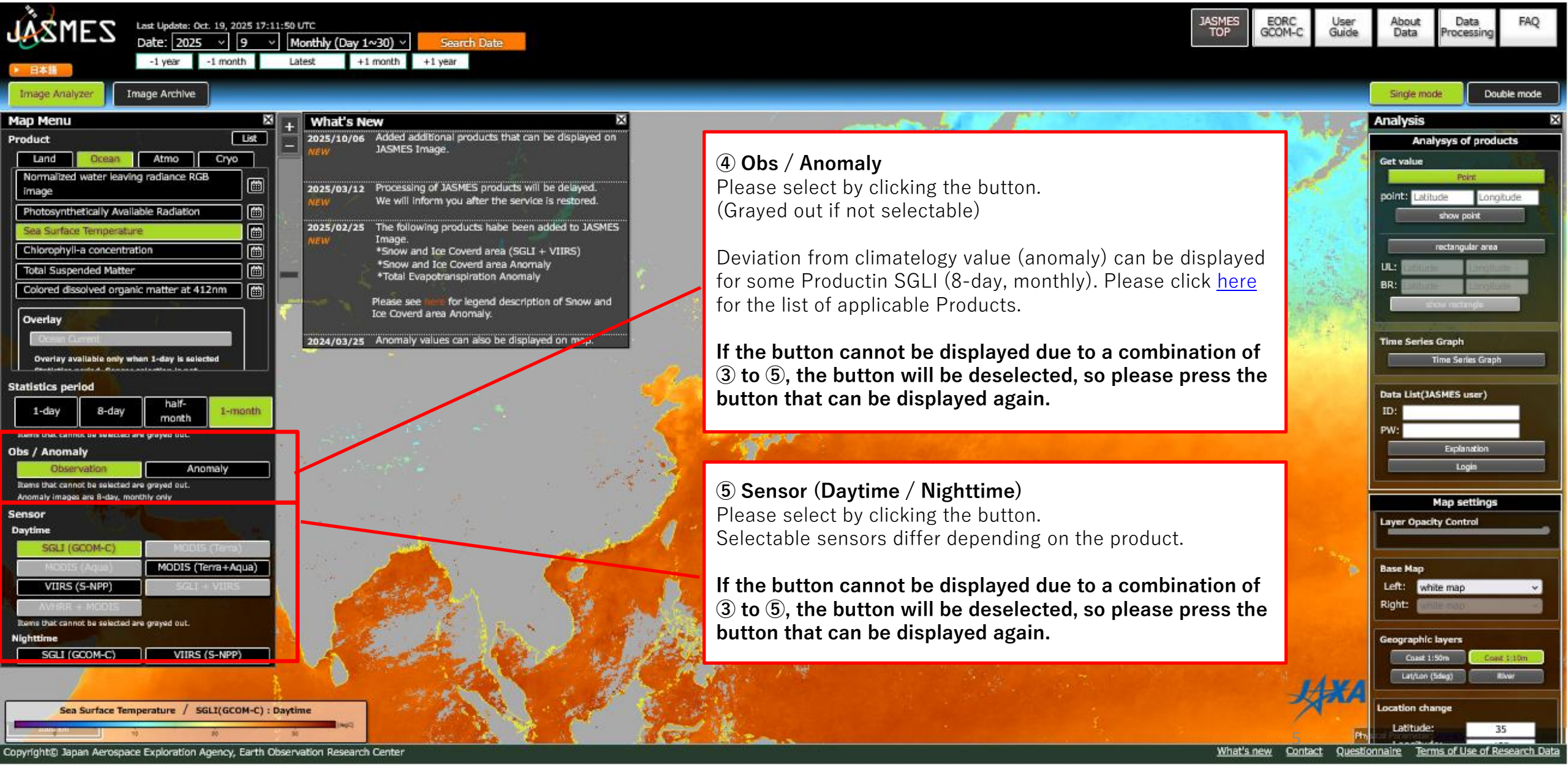
By clicking the calendar button next to the product button, you can view the data provision periods by region for each product.

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





JASMES Image Analyzer Usage ③



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

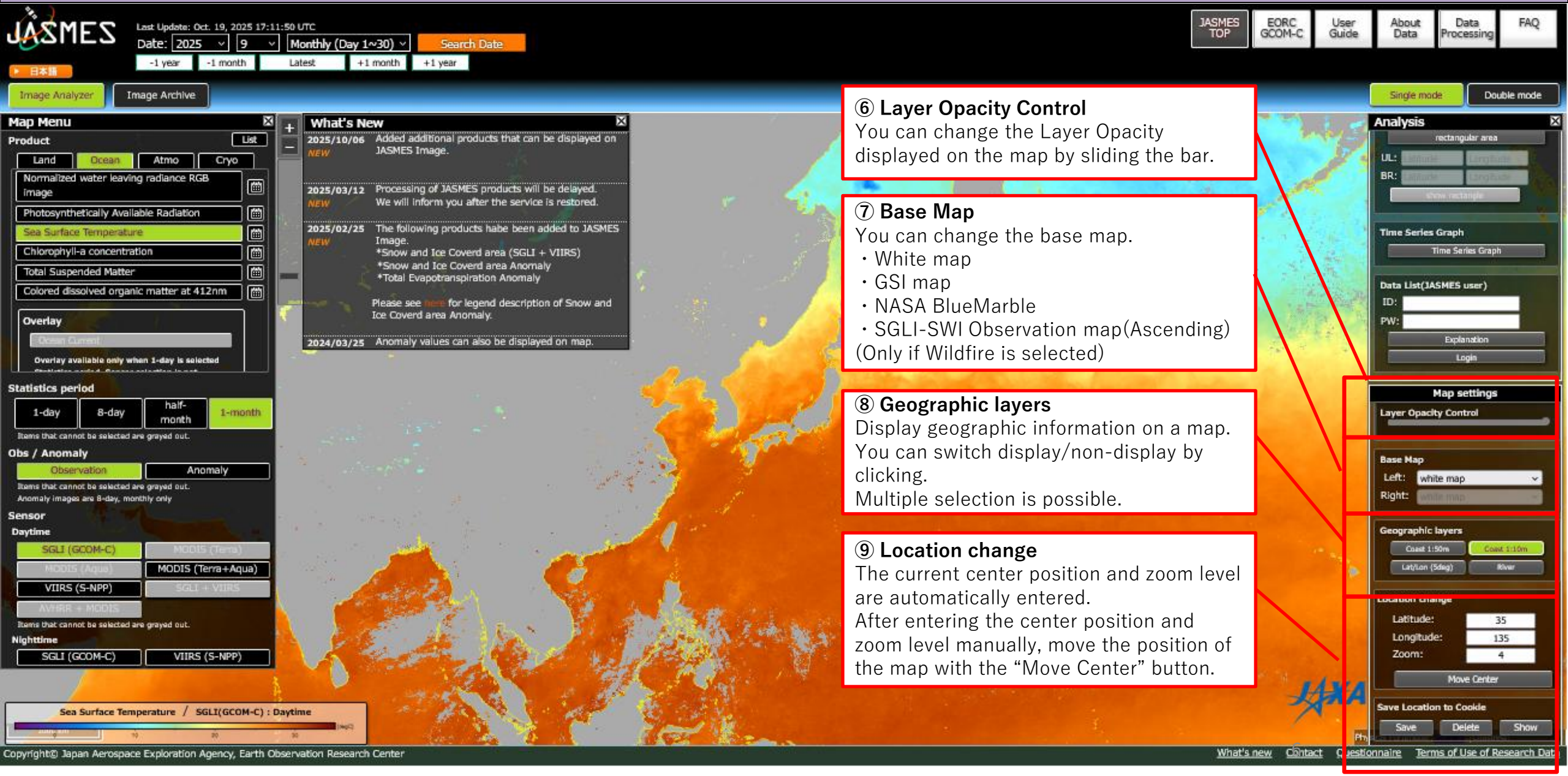
Deviation from climatelogy value (anomaly) can be displayed for some Productin SGLI (8-day, monthly). Please click here for the list of applicable Products.

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.

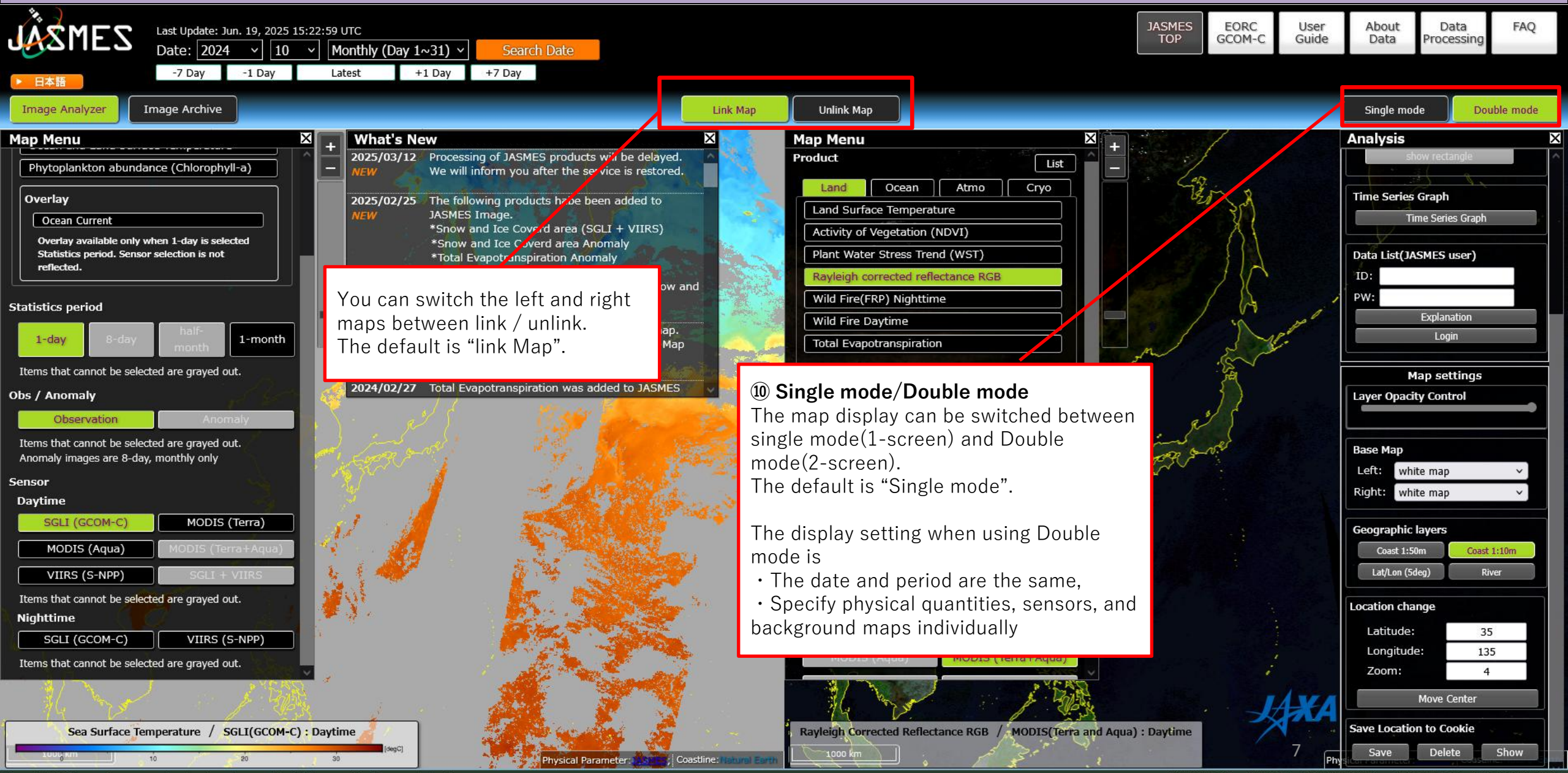
⑦ Base Map
You can change the base map.
- White map
- GSI map
- NASA BlueMarble
- SGLI-SWI Observation map(Ascending)

(Only if Wildfire is selected)

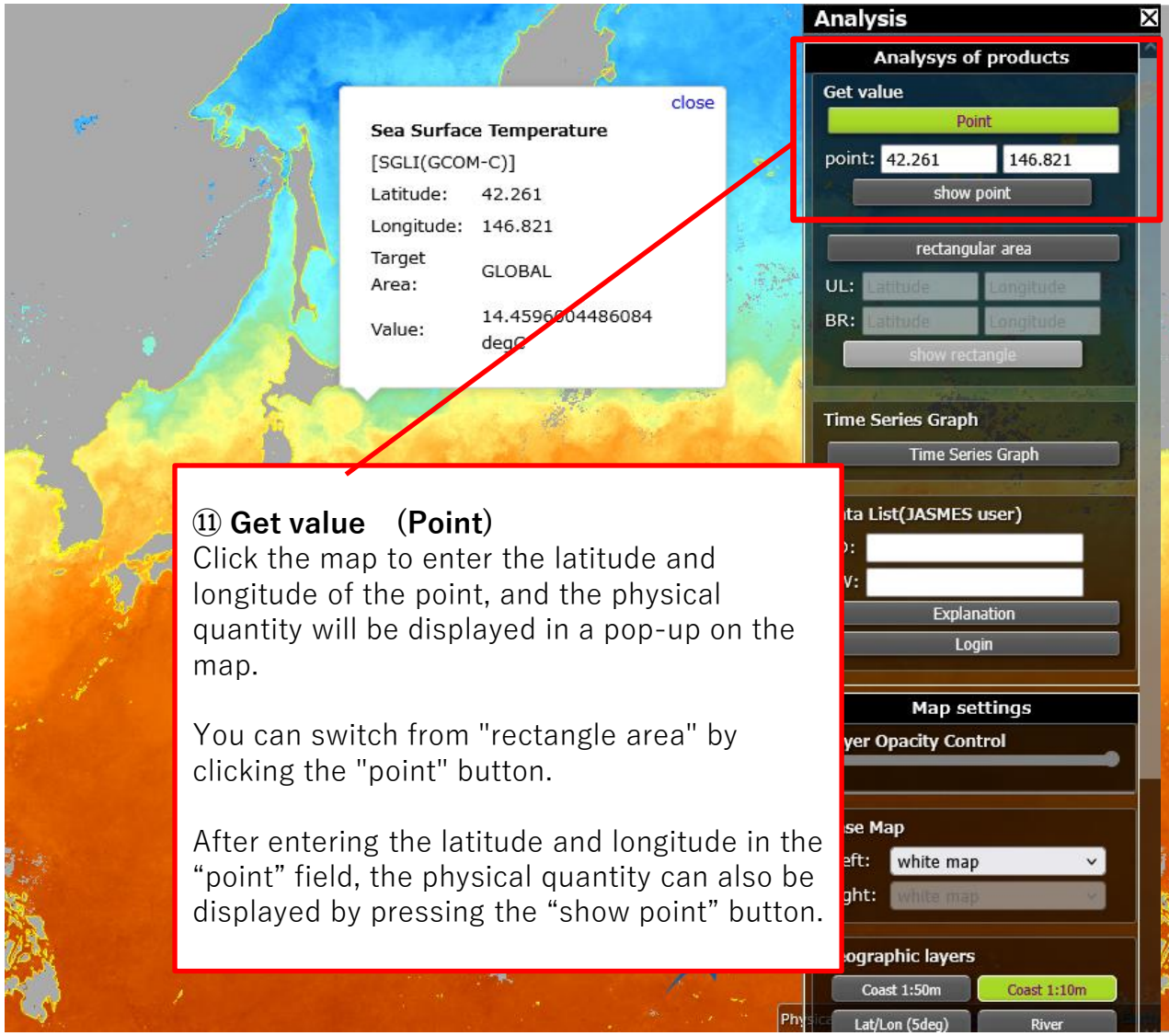
⑧ Geographic layers
Display geographic information on a map.
You can switch display/non-display by clicking.
Multiple selection is possible.

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.

JASMES Image Analyzer Usage ⑤



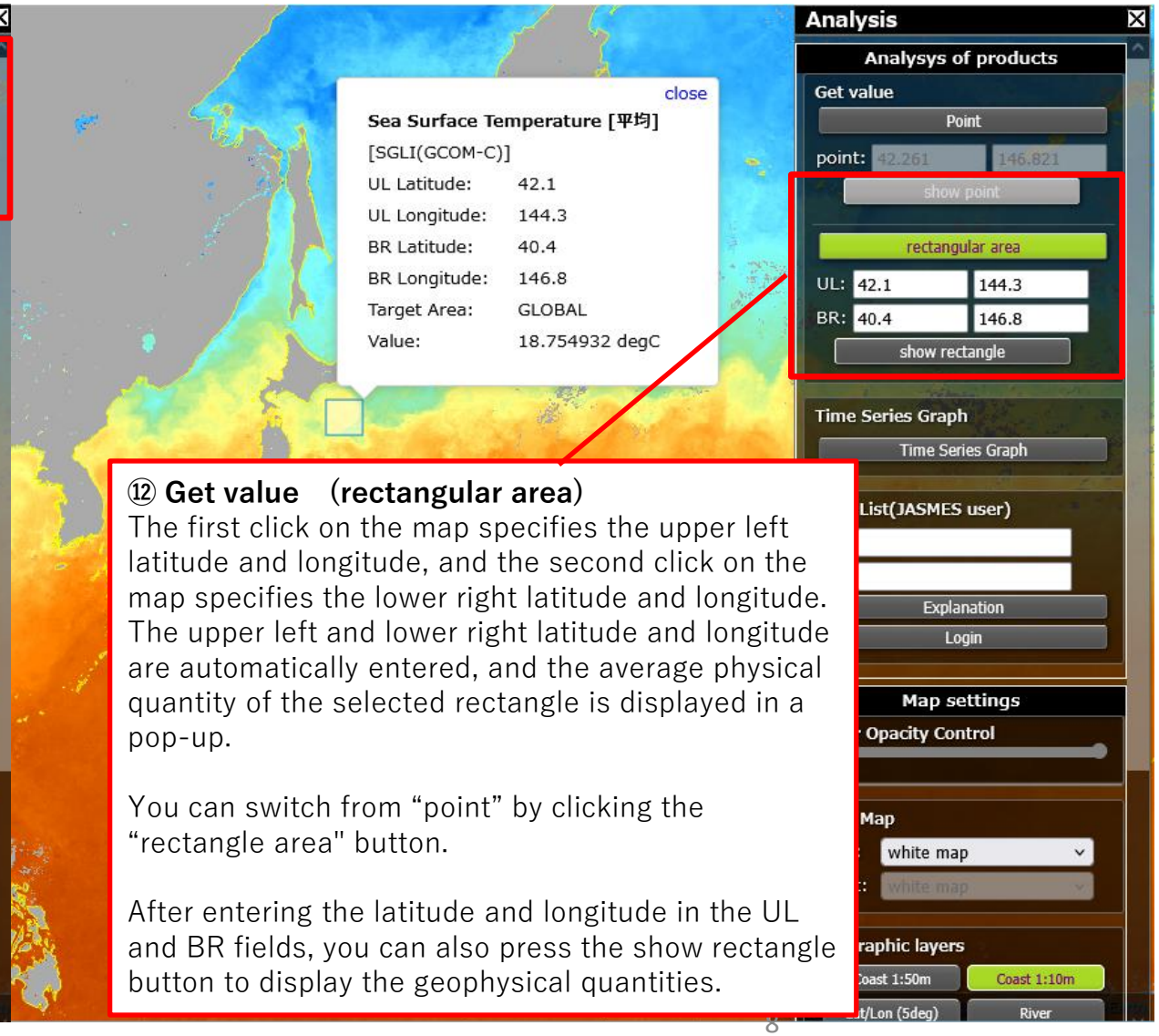
JASMES Image Analyzer Usage ⑥



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.



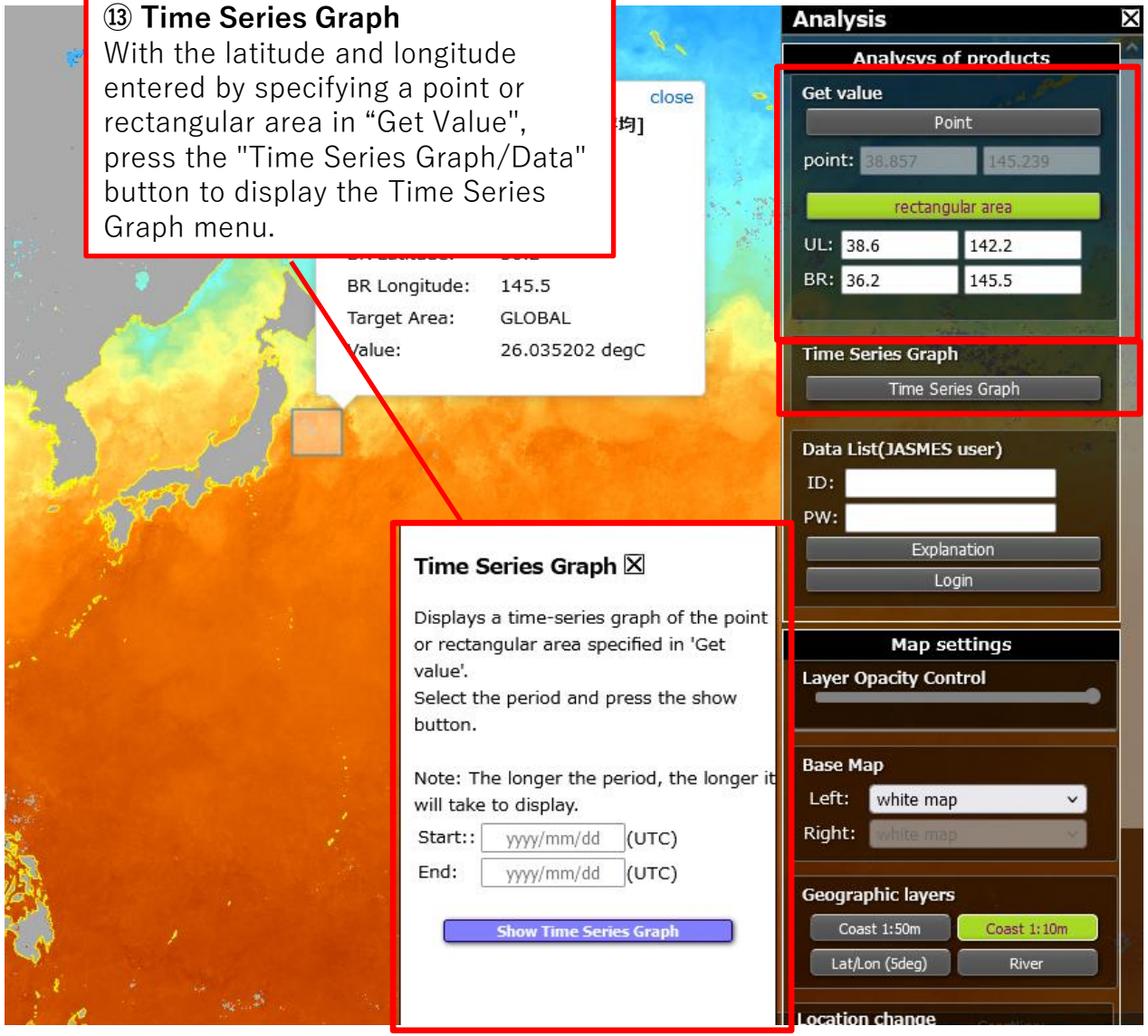
⑫ Get value　(rectangular area)
The first click on the map specifies the upper left latitude and longitude, and the second click on the map specifies the lower right latitude and longitude. The upper left and lower right latitude and longitude are automatically entered, and the average physical quantity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

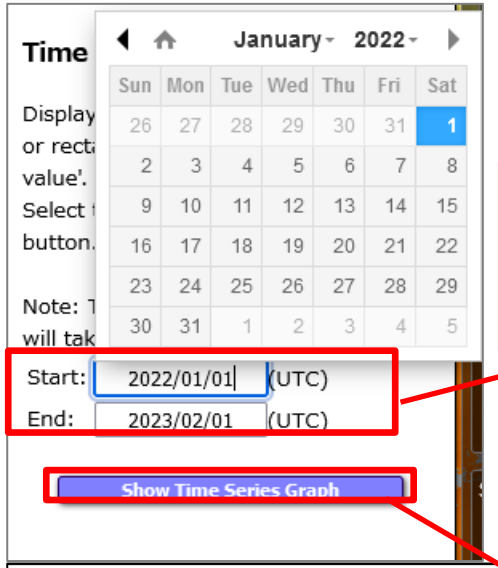
You can switch from “point” by clicking the “rectangle area" button.

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.





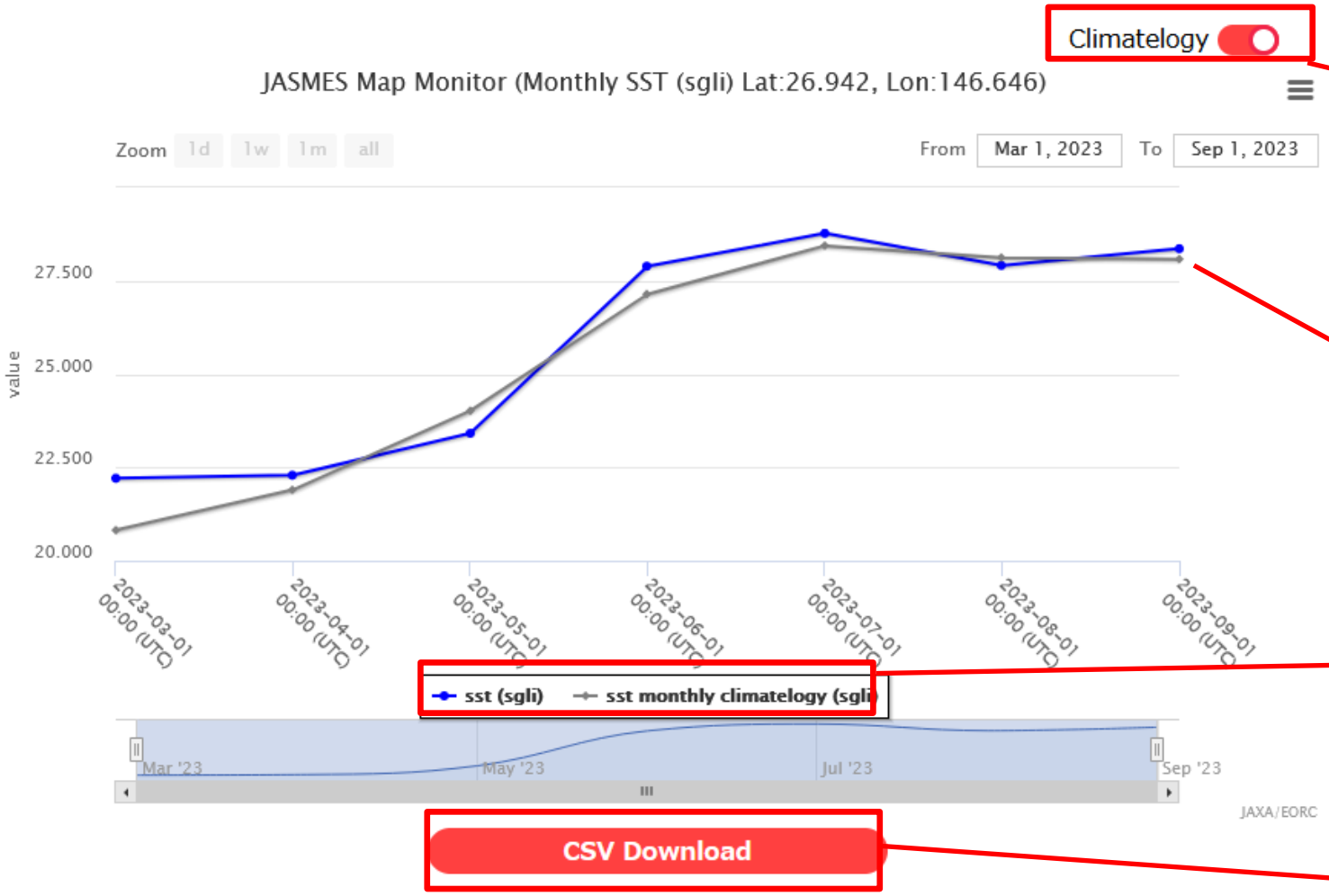
The start and end dates can be entered in the calendar or entered as values. When entering a value, enter it in “yyyy/mm/dd” format.

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 ⑧

For GCOM-C/SGLI LST, NDVI, SST, AROT, and SWR, climatelogy 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@bbbbb", ID:aaaaa, PW:aaaaa.

climatelogy value display switching

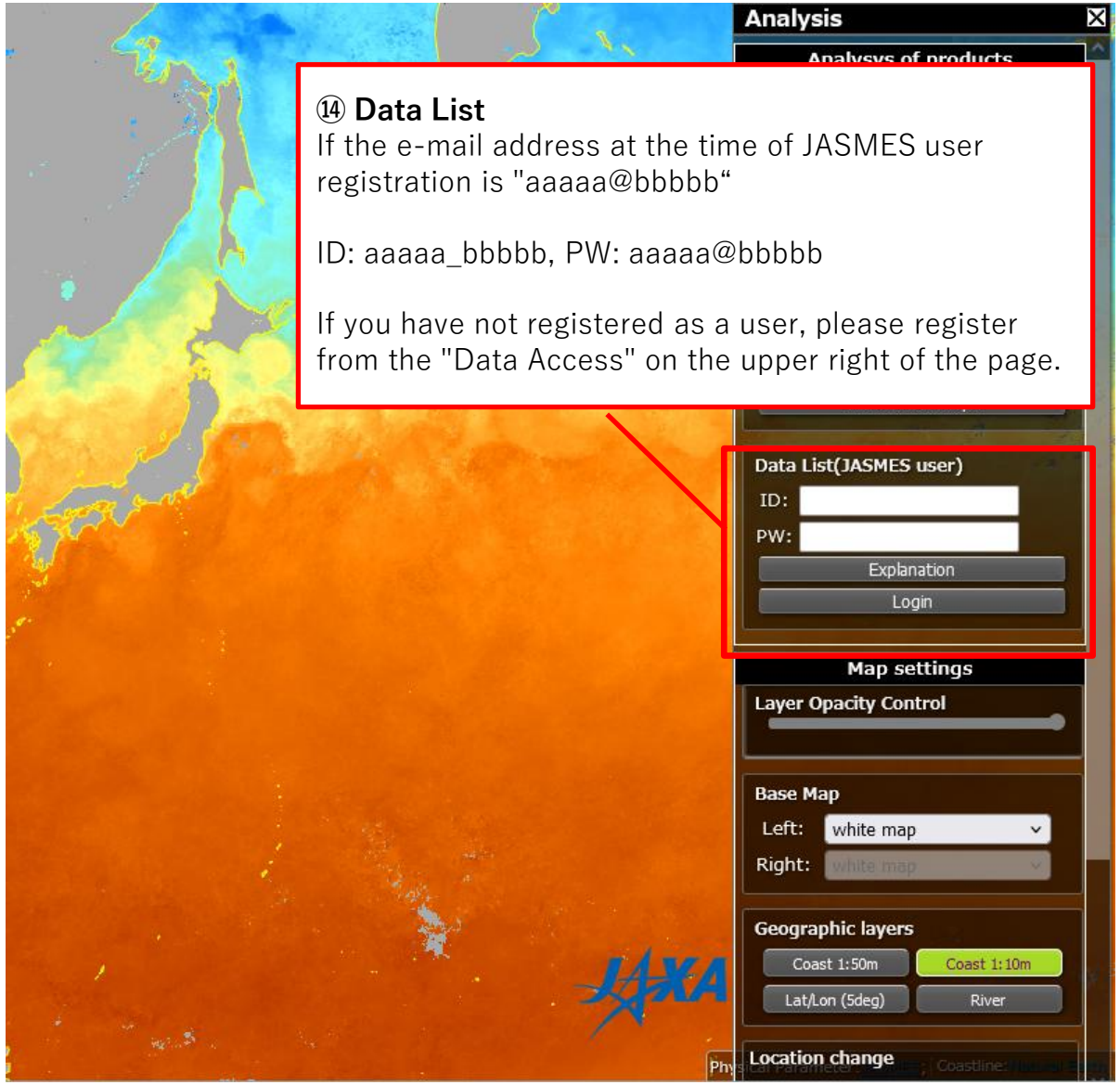
Climatelogy values are shown as gray lines.
As with the Monthly display of observations, climate values are plotted on the first day of each month.
(Climate values are displayed monthly even if observations are displayed daily or 8-day.)

Climatelogy 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 climatelogy values

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

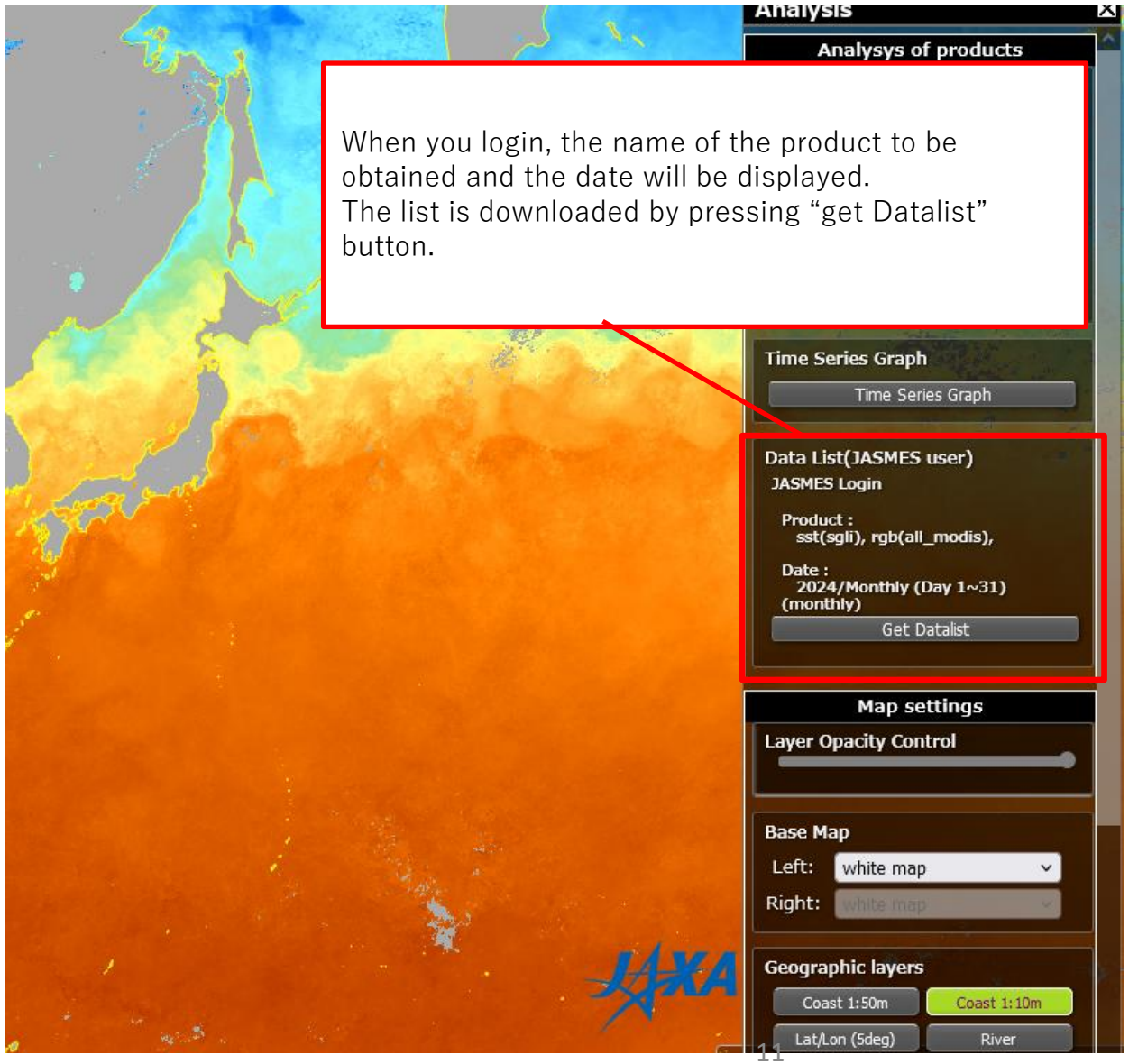
JASMES Image Analyzer Usage ⑨



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.



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.

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	
	Gross Primary Production	GPP	GCOM/SGLI	-	○	-	○	○	○	2018/1/1～	
			Terra and Aqua/MODIS	-	○	-	○	○	○	2003/1 ～	
	Net Ecosystem Production	NEP	GCOM/SGLI	-	○	-	○	○	○	2018/1/1～	
			Terra and Aqua/MODIS	-	○	-	○	○	○	2003/1 ～	
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	○	-	○	○	-	-	Daily:2011/1/1～、Monthly:2000/3～	
	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～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Cirro-stratus)	CFR2	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Deep convection)	CFR3	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Alto-cumulus)	CFR4	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Alto-stratus)	CFR5	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Nimbo-stratus)	CFR6	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Cumulus)	CFR7	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Strato-cumulus)	CFR8	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Stratus)	CFR9	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (ALL)	CFRA	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (High)	CFRH	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Middle)	CFRM	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Ratio of the number of cloud pixels (Low)	CFRL	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	
			Terra and Aqua/MODIS	-	-	-	○	-	○	2002/7～	
	Cloud flag	CLFG	GCOM/SGLI	○	○	-	○	-	-	2018/1/1～	

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	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～	
	Cloud Cover Rate	CFR	Terra and Aqua/MODIS	-	-	-	○	-	-	2000/2～	
Cryosphere	Snow Cover Extent	CSF	Terra and Aqua/MODIS	-	-	-	○	-	○	2000/2～	
			Terra and Aqua/MODIS+AVHRR	-	-	○	○	-	○	2000/2～2024/12	
			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