

G-Portal

User's manual

Revision 1.0

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Japan Aerospace Exploration Agency

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Revision History

Revision	Date	Description
1.0	9 24,2026	First Edition

1. What is the G-Portal

Globe Portal System (G-Portal) is online dissemination service of valuable products acquired from sensors on Earth Observation Satellites of Japan Aerospace Exploration Agency (hereafter, JAXA).

All you can use the service to cross-search products from JAXA's many earth observation satellites and sensors, and registered users can acquire products.

1.1. Data Policy

Precautions when using G-Portal data are as follows.

- Data is provided via the internet/an online environment.
- The target on offer is a free distribution product. (Products with paid distribution are not handled)
- Costs for providing the data are free of charge provided that no additional costs are incurred by JAXA.
- Anybody is free to use the system, including those interested in the global environment, or those interested in making a positive contribution to society using earth observation data.

Privacy policy when you register a user is handled in the following manner.

Your registered personal information is used to identify how the service is being used, and to implement improvements to the service into the future. This information may also be used to notify or contact users when JAXA conducts surveys (questionnaires) regarding improvements to system functionality.

Please refer to the Term of Use for further information on usage. Also please refer to the JAXA site policy (http://www.jaxa.jp/policy_j.html) for further details on the data policy and handling of privacy policy.

1.2. G-Portal user types

User types for G-Portal is outlined in Table 1.2-1. You are recommended to complete user registration first in order to acquire products without restrictions (See “2. Register User”).

Table 1.2-1 User Type

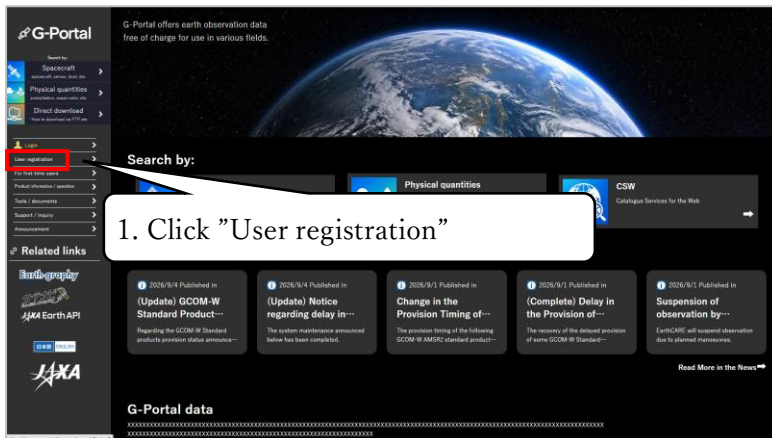
User Type	Definition	Services Available
Guest User	Users who have not completed user registration	Search and browse data online. Note that guest users are unable to order or acquire products.
Registered User	Users who have completed user registration	You can search for data, retrieve standard products, and perform production and processing via the web. You can also retrieve standard products and near-real-time products directly from an SFTP server.
Specified User	Register users, collaborator specially permitted by JAXA	Search, browse, produce, process and acquire standard products online. In addition to the products that registered users can download, acquire special products being available to those who are JAXA-approved directly from the SFTP server.

2. Register User

2.1. User registration

You must complete user registration to order and download products using this service.
The following outlines the procedures required for user registration.

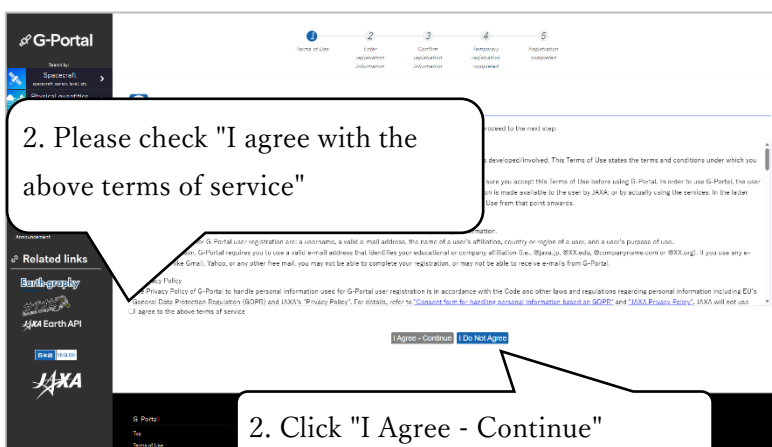
1) Click "User registration" from the menu.



2) To register a user, you must agree to the terms of use. Read through the terms and click the "I Agree - Continue" button. The page will move to the "User Registration window".

User registration is not possible if you do not agree to these terms, and use the service as a guest user.

*If you check "I agree to the above terms of service" for all terms of use, you will be able to click the "I Agree - Continue" button.



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2.1. User registration

3. Enter user registration information

3) Enter all user information to be registered (user account, password, name, email address, organization type, organization, department, country, language, purpose of use, email delivery preference).

4. Click "Next"

4) Click the "Next" button to move to the window to check the information you've entered. If you want to cancel the input contents, please click "Cancel" button.

*The "Register Confirmation Screen" button can be clicked by entering all the items labeled (Required).

5. Confirm user registration information

6. Click "Register"

5) The entered user information will be displayed, so check if there is any mistake in the contents. To correct, please click the "return" button. You will return to the screen for entering user information.

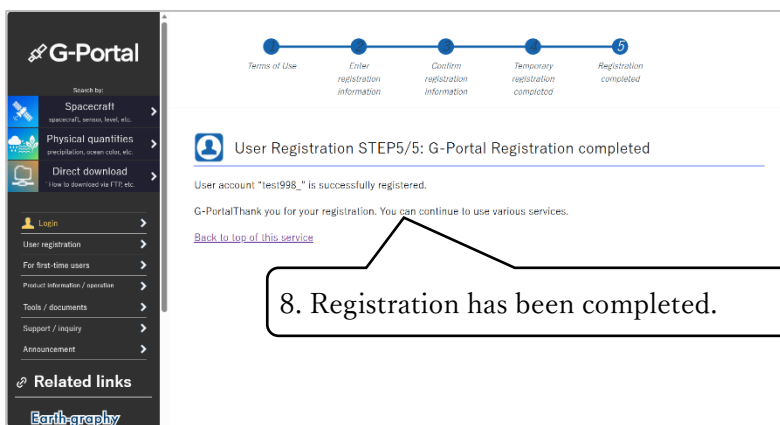
6) Click the "Register" button to perform the provisional registration procedure.

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2.1. User registration



7) The temporary registration procedure is completed. "Temporary registration notification mail" will be sent to the email address you entered. Registration is completed by accessing the URL described in the mail. At the time of provisional registration, you can not log in because user registration has not been completed yet.



8) Access the URL included in the "Temporary registration notification mail". The final Registration window will be displayed.

Your user account is sent to the email address you registered ("User Registration Complete Email").

User registration is complete and you can now login to the G-Portal.

2.2. Login to the system

You can login to the system using a user account that has been registered in advance (see “2.1 User registration” for the registration method) to order and download products using G-Portal. See “1.2 G-Portal user types” for user type and usage restrictions.

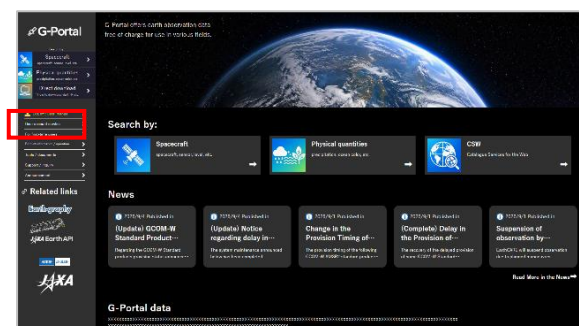
2.2.1. Login on the top window



1) Click “login” at menu on a left pane of the top window. Appear the window for the login.

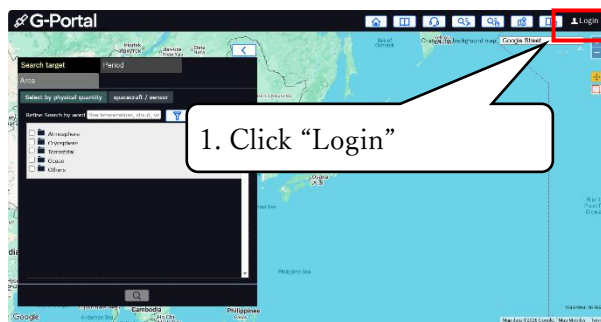


2) Input your user accounts and password as the login window is displayed. Click “login” button.



3) After login successfully, The “login” button at menu on left pane of the top window switches “logout: 【account name】” button.

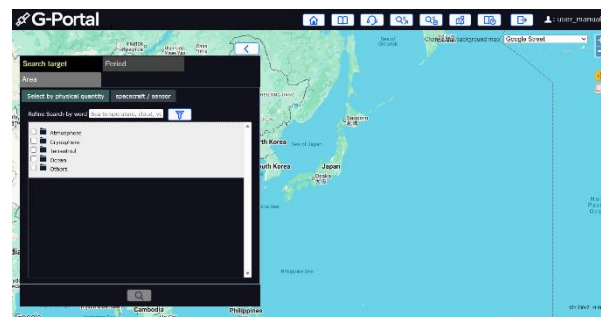
2.2.2. Login on the search window



1) Click the login button on the search header and appears the pop-up login dialog.



2) Input your user account and password while login dialog is appeared.

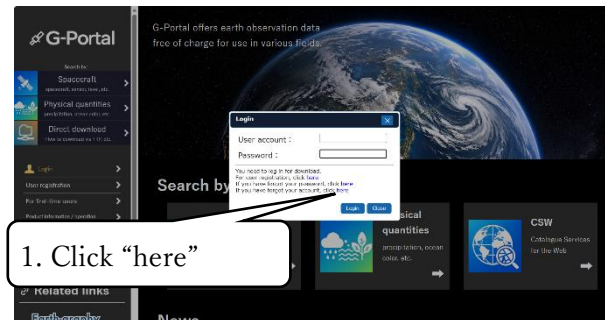


3) "Login" button on the header of the search window switches after login successfully.

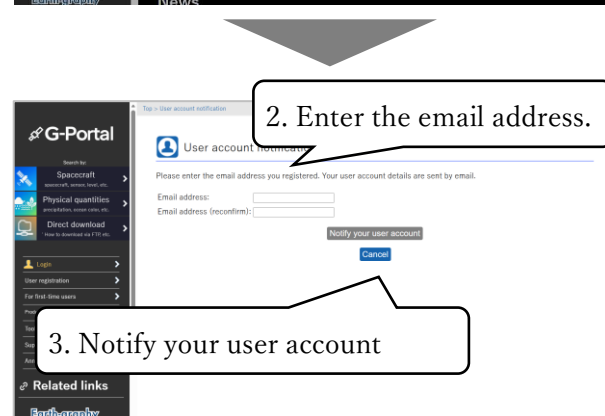
2.3. Troubleshoot for login

2.3.1. If you have forgotten your user account

The G-Portal can automatically resend User Account Notification Email if you have forgotten your user account.



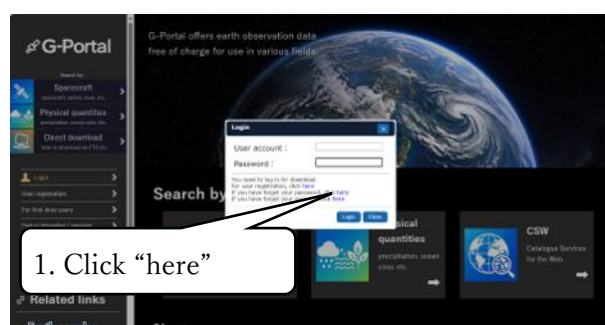
1) Click “login dialog” or “Here, you lose your user account information.” link and appear the window for informing your account information again.



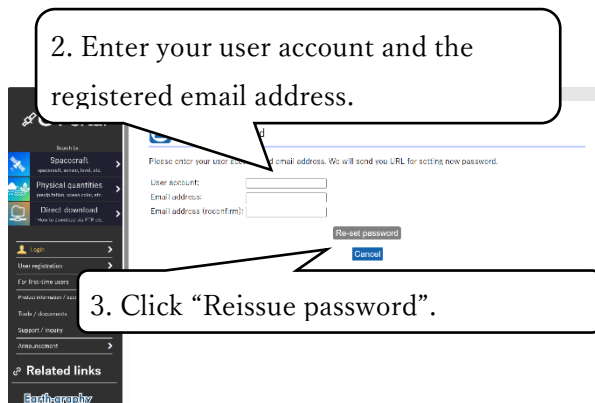
2) Input the registered e-mail address on the G-Portal application.
3) Click the button “notify the user account and the notification to the e-mail address sent.”

2.3.2. If you have forgotten your password

The system can reissue a password if you have forgotten your password.



1) Click “login dialog” or “Here, you lose your password.” link and appears the window for informing your account information again.



- 2) Input your user account and the registered e-mail address.
- 3) Click the button “Reissue your password”, a notification for the reissued password is sent to your e-mail address.

2.3.3. If your account has become locked

Your user account will be locked if you have entered an incorrect password five times. You will not be able to login to the system when your account is locked.

Your user account is locked when you entered an incorrect password. The system will unlock accounts automatically once 10 minutes. Try login the system after a while.

3. How to download products directly

It describes the procedure to download the product directly using SFTP protocols.
Using SFTP is permitted only for specific users.

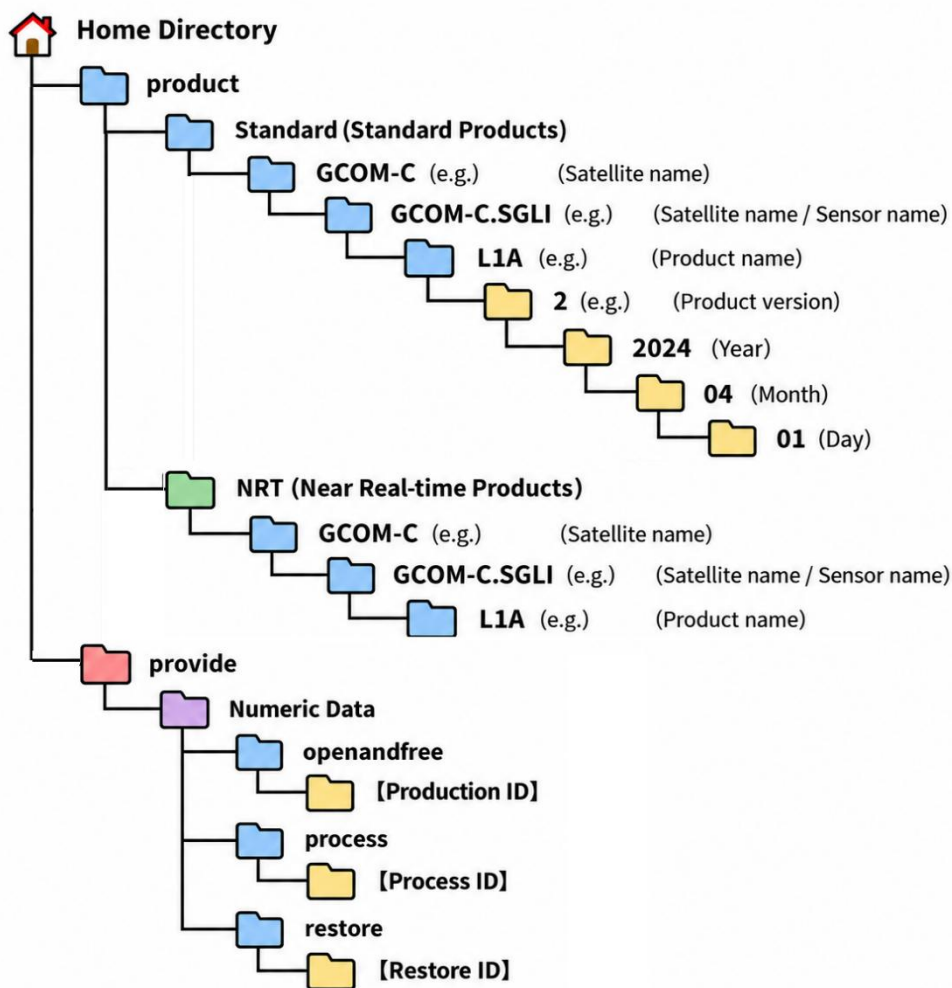
3.1. Products that can be downloaded by SFTP

For SFTP, products to be downloaded are "standard product" and "near real time product". Regarding "standard product" and "Near real time products", the range that can be referred to differs depending on the belonging group.

3.1.1. Directory structure

◆ Directory structure of standard product

The directory structure of the standard product is as follows.



3.2. Downloading products using SFTP

For direct acquisition using SFTP, account authentication or user authentication by public key cryptography is performed.

When performing user authentication by public key cryptosystem, it is necessary to create private key / public key beforehand and register its public key in G - Portal. Please refer to "Create your private key · Public key yourself", "Register public key" or "Download private key created with G-Portal" for creating and registering private key · public key.

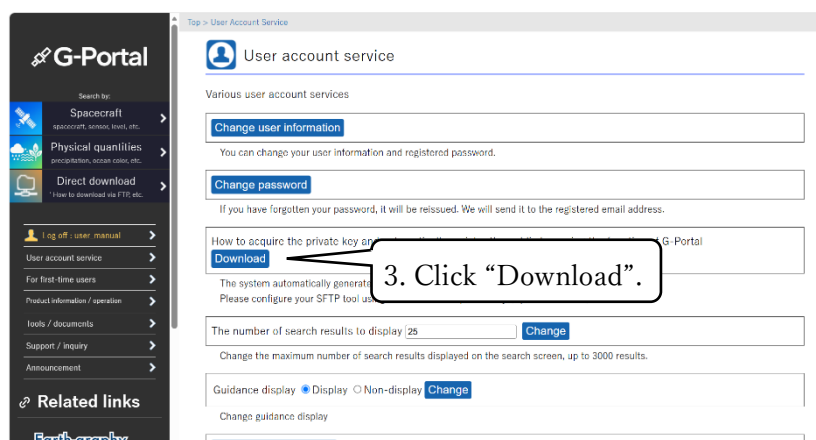
For the directories that can be accessed, please refer to "Products that can be downloaded via SFTP" "Directory configuration", for downloading methods using SFTP, please refer to "How to download using SFTP".

Depending on the organization to which the user belongs, access to the outside by SFTP may be prohibited by policy. In that case, please consult with your network administrator of your organization.

3.2.1. How to acquire the private key and automatically register the public key using the function of G-Portal

Here's how to generate a private key and a public key using G-Portal's features.

- (1) After logging in to the system, click "Account service" on the menu to display the user account service screen.
- (2) Click the "Download" button to generate the private key and download the private key to your computer. Also, generate a corresponding public key and register it on the GPortal.



3.2.2. How to download using SFTP

This section shows how to download in UNIX (including Mac OS X) and Windows.

◆ Basic information

host	sftp.gportal.jaxa.jp
port	22
protocol	SFTP
user name	User account registered in G-Portal
Private key	A private key corresponding to the public key registered in G-Portal (Used in case of public key cryptographic authentication)

(1) UNIX (including Mac OSX)

◆ Connect SFTP(Public key cryptographic authentication)

By entering the following command on the command line, you can access SFTP using public key cryptographic authentication.

```
$ sftp -oPort=22 -oIdentityFile=[public key path] [account]@sftp.gportal.jaxa.jp
```

The following will be displayed if you have logged in successfully:

```
sftp >
```

is displayed

◆ List

Enter:

```
sftp > ls
```

to display a list of files and directories.

◆ Change directory

Enter:

```
sftp> cd [directory name]
```

to move to a specific directory.

* Note: Due to access restrictions, you might not be able to move to a directory even if it is displayed in the list.

◆ Download a file

Enter:

```
sftp> get [file name]
```

to get a file. The specified file will be downloaded and saved in a directory on your computer.

◆ **Exit SFTP**

Enter:

```
sftp > bye
```

to close SFTP.

(2) Windows

The following outline is an example using the “WinSCP” software application to download via SFTP.

◆ **Connect SFTP(Public key cryptographic authentication)**

- (1) Start WinSCP.
- (2) Enter "sftp.gportal.jaxa.jp" into "Host name".
- (3) Enter "22" into "Port number".
- (4) Enter the user account registered in G-Portal into "User name".
- (5) Click [Advanced...] to set private Key File.
- (6) Select "Authentication".
- (7) Select private a key file that you created into "Private key file".
- (8) Click [OK].
- (9) Click [Login] to SFTP login.
- (10) image below will be displayed if you have logged in successfully.

The left pane is your computer folder the right is the G-Portal directory.

◆ **Change directories**

Change directories from the pull-down menu and navigation buttons.

◆ **Download a file**

Drag and drop the products you want to download.

◆ **Exit SFTP**

Click [Commands]-[Quit] to close WinSCP.

4. Product Search and Download

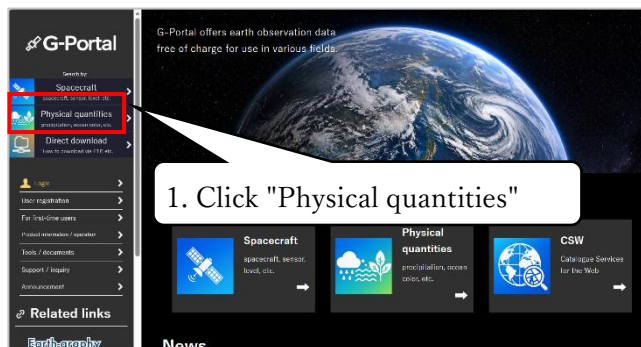
4.1. Product Search

The following are three ways to search for products.

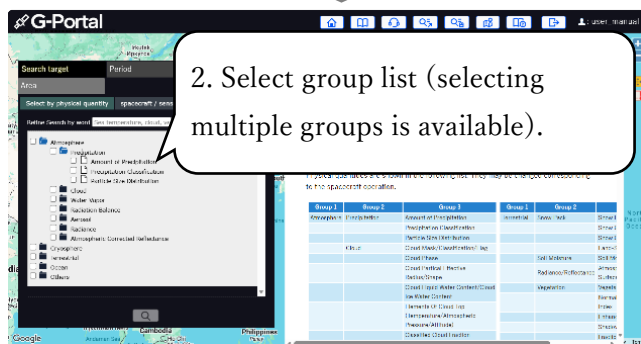
- Search by physical quantities
- Search by spacecrafts/sensors
- Search using saved search conditions(only available to registered users)

4.1.1. Search by physical quantities

Search for products by physical quantities, and the period and region. See “6.1 Checking the provided spacecrafts/sensors and physical quantities” for further details.

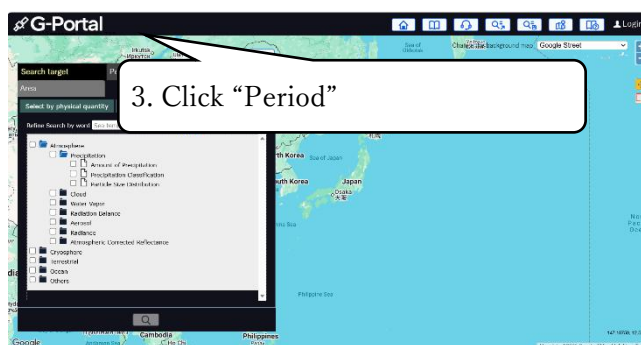


1) Click “search from physical quantities” left pane on the top menu and move to the search window shown the physical quantities tree.



2) Each category shows the group list to physical quantities to a tree format on the search window. Refer to “Checking a provided spacecrafts sensors/physical quantities” the physical quantities is included in the physical quantities’ group.

※Click ► on physical quantities group, and physical quantities in the group are shown.

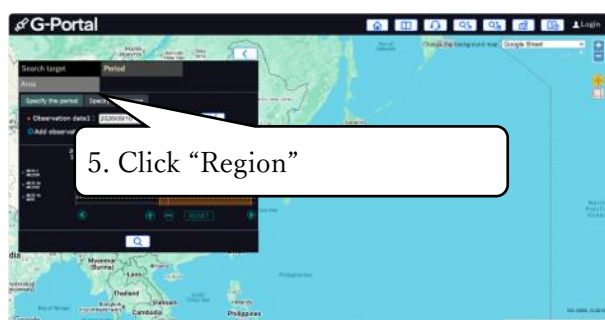


3) Click “2. Specify date ” on the top of the window with checking physical quantities.

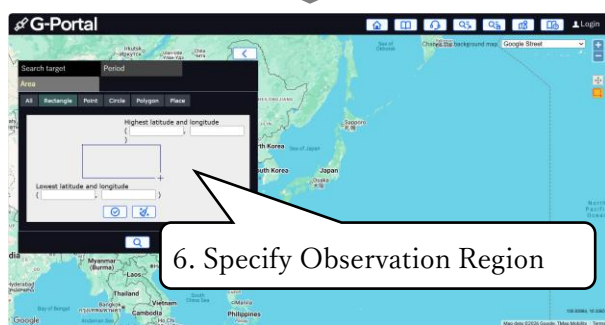


4) The left pane displaying “data range” appears. The selections are “Period” and “Season”. (Please refer “Appendix 3 Specify Observation Period”). There are three ways on “Data Range” as follow. (Please refer “Appendix 3 Specify Observation Period”)

- Input by text
- Input from the calendar UI



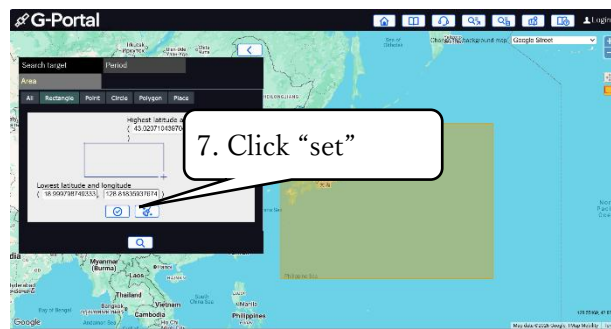
5) Click “3. Specify Area” on the top of a window.



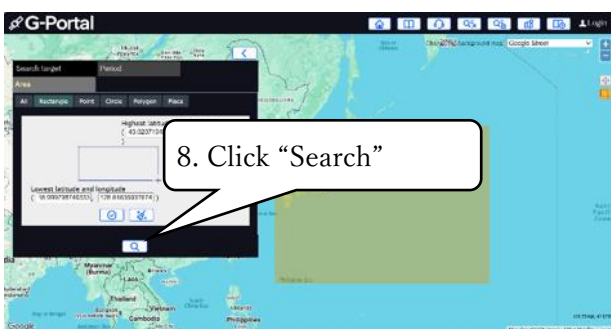
6) Appear a window specifying search field. The selections of observation area are six applications(functions?). Refer to “Appendix 2 Specify observation region”.

- specify a globe
- specify a rectangle
- specify a point
- specify a circle
- specify a polygon
- specify a place (name)

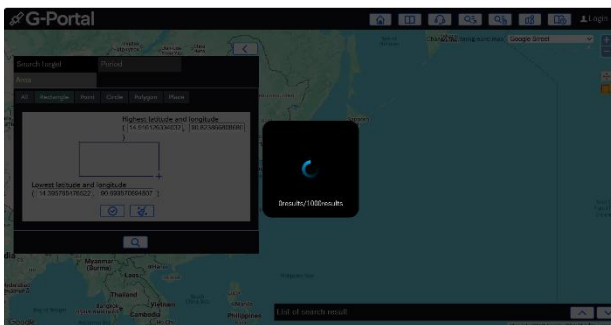
Choose a function from “text input” and “drag and drop on the map”.



7) Click "Submit" when input the searching area by text. (unnecessary on drug on the map)



8) Start search by clicking "search" button on the lower part window. "Search" button can click under setting a spacecraft sensor, physical quantities and observation data.



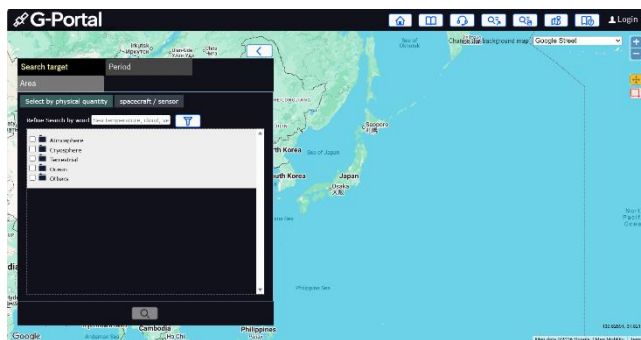
9) Loading icon and searching status are displayed during searching. "Hit number"/"Visible number"

4.1.2. Search by spacecrafts/sensors

Search for products by spacecraft/sensors and products , and specifying the period and range.



- 1) Click “Search by spacecraft sensors” on the top window menu and move to search window shown spacecraft seinsors tree.

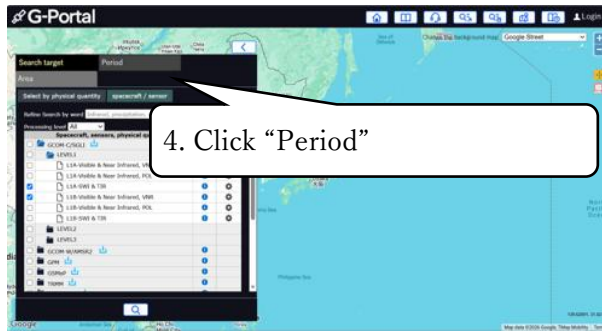


2) To “1. Refine search > aircraft, choose a sensor” on search window, spacecraft sensors provided on G-Portal is shown.

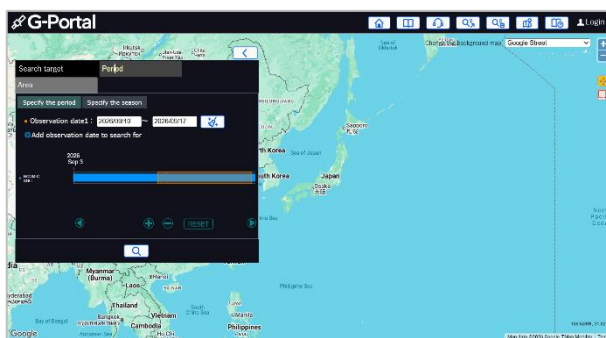
✖The explanation of spacecrafts is shown with clicking “I” icon to aircraft sensors.



3) Check a searching satellite sensor.
 ✖Click ► on spacecraft sensors bar and the products chosen by spacecraft sensor. The detail search status show about the setting available product on the setting icon. Click the setting icon, The detail search condition input dialog is shown.



4) Check a searching spacecraft sensor and click "Specify date" on the top of a window.



5) The product including a chosen spacecraft sensor in (3) is shown "Specify date" window on the bar-chart.

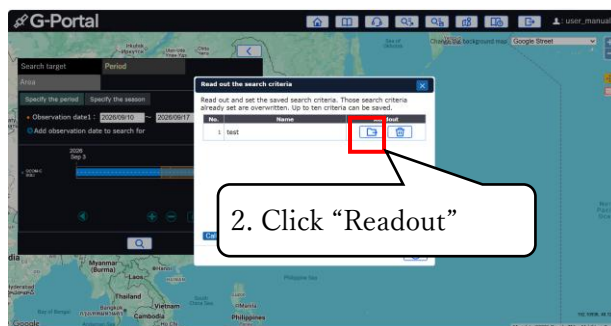
The operation is as well as "4.1.1 Search by physical quantities". Refer to "4.1.1 Search by physical quantities" (6).

4.1.3. Search by saved condition

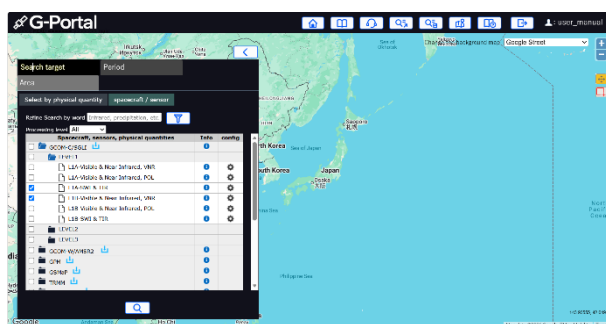
The system allows you to save search conditions, and you can load them for easy operation. However, this option needs your login as registered user. (see “2.2 Login to the system”)



- 1) Click “Call out saved search criteria” and display a save criteria selection dialog window.



2) Click “Readout” on the chosen search criteria.



3) The Search criteria is inputted on the search criteria window. Confirm the search criteria, Click “Search” button on the lowest window and start a search.

4.2. Display search results

This section outlines the procedures that are available from the search results window.
Note that “Save search conditions” is only available to registered users.

Products that have stopped delivering are not displayed as search results.

[Search results window]

The screenshot shows the G-Portal search results interface. On the left, there's a search filter panel with options for 'Search target', 'Period', and 'Area'. The main area displays a map of East Asia with a search region highlighted. Below the map, there's a 'List of search result' table. Callouts point to various features: 4.2.1 Check search results with a list (points to the table), 4.2.2 Check search results with thumbnails (points to the thumbnail view), 4.2.3 Check detailed information (points to a row in the table), 4.2.4 Check the observation region on the map (points to the map), 4.2.5 Save search results in CSV format (points to the 'Download the list' dialog), 4.2.6 Save search results in KML format (points to the 'Download the list' dialog), 4.2.7 Save commonly used search conditions (points to the top navigation bar), 4.2.7 Save search results (points to the 'Save the list' button), 4.2.8 Save search results list (only registered users) (points to the 'Save the list' button), 4.2.9 Save search results to mylist (only registered users) (points to the 'My List' button), 4.2.10 Check save the list (points to the 'Save the list' button), and 4.2.11 Check mylist (points to the 'My List' button).

4.2.1 Check search results with a list

4.2.2 Check search results with thumbnails

4.2.3 Check detailed information

4.2.4 Check the observation region on the map

4.2.5 Save search results in CSV format

4.2.6 Save search results in KML format

4.2.7 Save commonly used search conditions

4.2.7 Save search results

4.2.8 Save search results list (only registered users)

4.2.9 Save search results to mylist (only registered users)

4.2.10 Check save the list

4.2.11 Check mylist

[Download the list dialog]

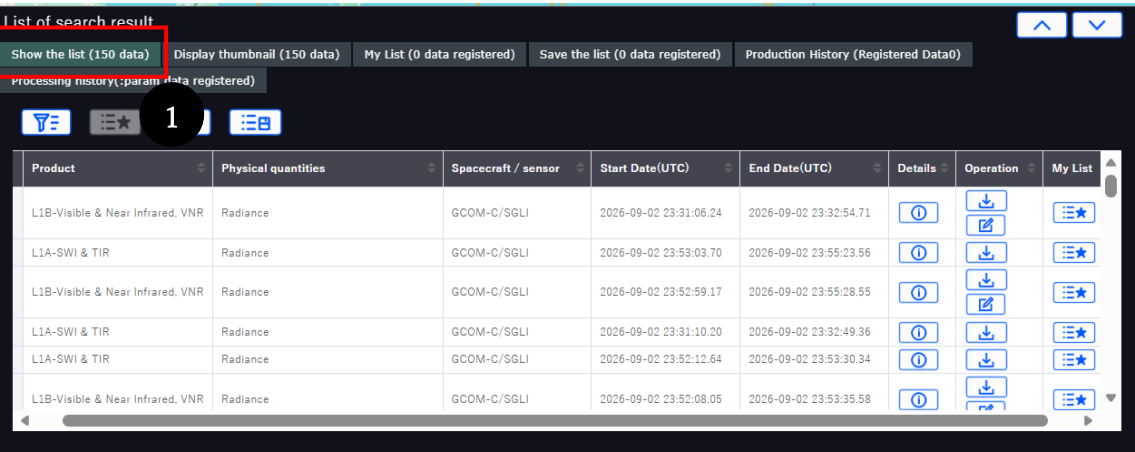
The 'Download the list' dialog box is shown, allowing users to select the output format. It has two radio buttons: 'Output in CSV format' (selected) and 'Output in KML format'. A note below the KML option states '* many data is may takes time.' There are 'OK' and 'Cancel' buttons at the bottom. Callouts point to 4.2.5 Save search results in CSV format (points to the CSV option) and 4.2.6 Save search results in KML format (points to the KML option).

4.2.5 Save search results in CSV format

4.2.6 Save search results in KML format

4.2.1. Check search results with a list

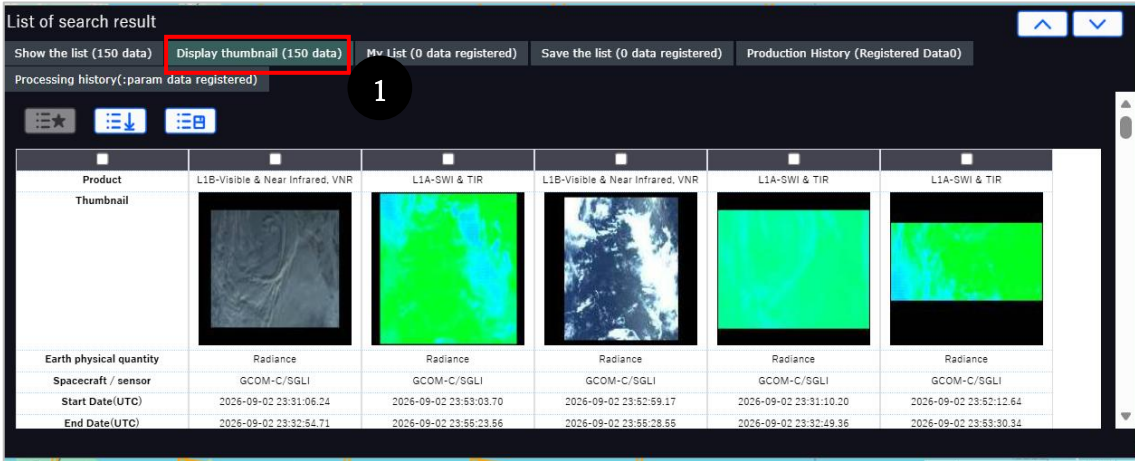
[List display]



1) Click the “Show the list” tab on the search results window. The search results will be displayed as a list.

4.2.2. Check search results with thumbnails

[Thumbnail display]

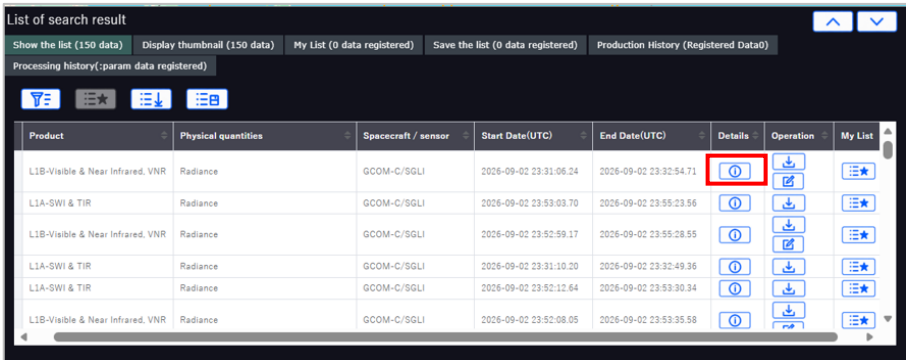


1) Click the “Display thumbnail” tab on the search results window. The search results will be displayed as thumbnails.

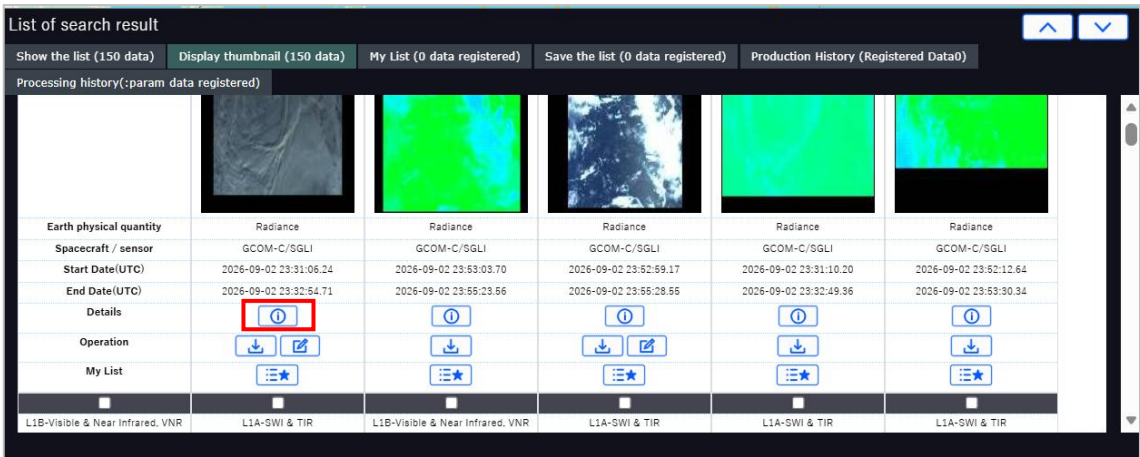
4.2.3. Check detailed information

You can check detailed information of searched products. Click the “Show detail” button in the list display or thumbnail display. Detailed information will be displayed in a separate window.

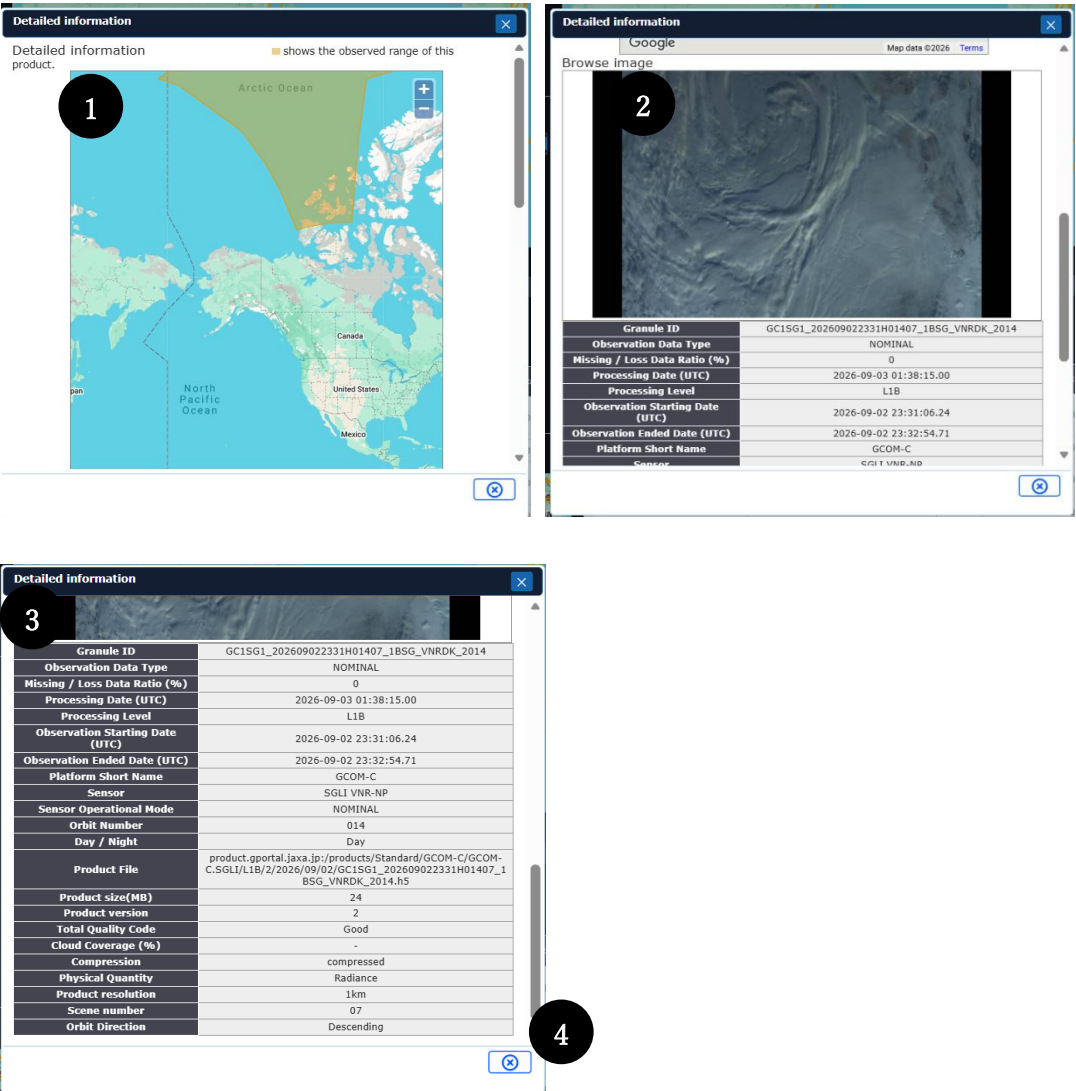
[List display]



[Thumbnail display]



[Detailed information(separate window)]



- 1) The observation region is displayed on the map.
- 2) A browse image will be displayed for products with browse images available.
- 3) Detailed information about the product will be displayed.
- 4) Click the “Close” button to close the detailed information window.

4.2.4. Check the observation region on the map

You can check the observation region of searched products on the map. Click the “Show on map” button in the list display or thumbnail display. A map will be displayed at the top right of the search results window.

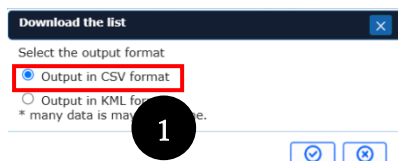
[Display of observation area]

The screenshot displays the G-Portal interface. On the left, a search panel is visible with fields for 'Search target', 'Period', and 'Area'. The 'Period' section shows 'Observation date1: 2026/09/01 ~ 2026/09/17'. Below this, a '2026 Sep 3' date range is shown. The main area features a map of East Asia with a red box labeled '1' highlighting a specific observation area. On the right, a 'List of search result' table is displayed. The table has columns for 'Product', 'Physical quantities', 'Spacecraft / sensor', 'Start Date(UTC)', 'End Date(UTC)', 'Details', and 'Operation'. The first row is selected, and a red box labeled '2' highlights the 'Show on map' button in the 'Operation' column.

Product	Physical quantities	Spacecraft / sensor	Start Date(UTC)	End Date(UTC)	Details	Operation
L18-Visible & Near Infrared, VNR	Radiance	GCOM-C/ISGLI	2026-09-02 23:39:58.84	2026-09-02 23:40:08.21		Show on map
L18-Visible & Near Infrared, VNR	Radiance	GCOM-C/ISGLI	2026-09-02 23:43:43.29	2026-09-02 23:48:30.87		Show on map
L18-Visible & Near Infrared, VNR	Radiance	GCOM-C/ISGLI	2026-09-02 23:39:30.89	2026-09-02 23:44:16.47		Show on map
L18-Visible & Near Infrared, VNR	Radiance	GCOM-C/ISGLI	2026-09-03 00:00:32.76	2026-09-03 00:09:20.33		Show on map

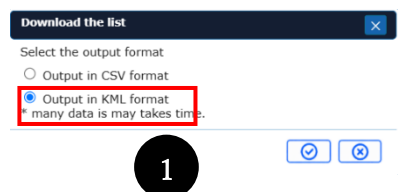
- 1) The observation area of the selected product is highlighted.

4.2.5. Save search results in CSV format



1) Check "Output CSV" on a list of download dialog window and Click "Decision". Save CSV format of the search result on your computer.

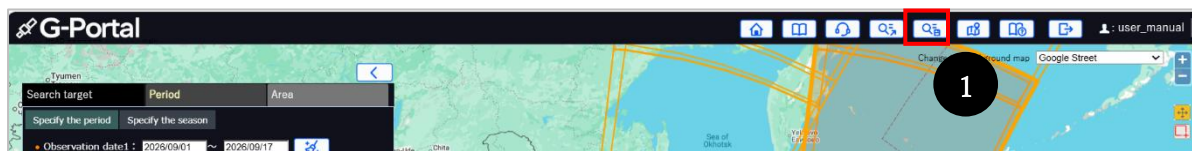
4.2.6. Save search results in KML format



1) Check "Output KML" on a list of download dialog window and Click on "decision". Save KML format of the search result on your computer.

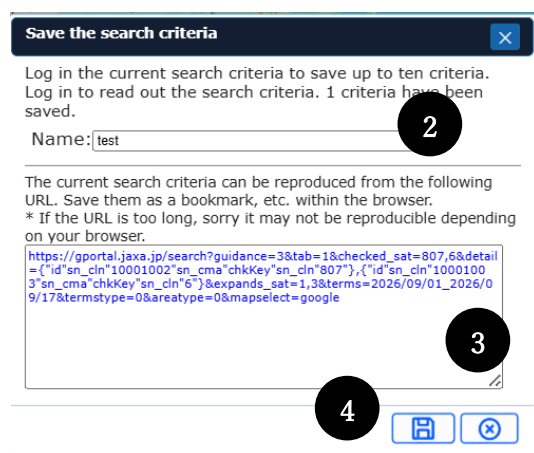
4.2.7. Save commonly used search conditions

You can save search conditions that you have configured.



1) Click the “Save the search criteria” button. A dialog box allowing you to save search conditions will be displayed.

[Save the search criteria dialog box]



2) Enter a save name.

3) The URL to reproduce the search condition is displayed.

4) Click the “Save” button to complete saving the conditions and close the dialog box.

* only available to registered users

4.2.8. Save search results list

You can save search results list.

The screenshot displays the 'List of search result' interface. At the top, there are tabs: 'Show the list (150 data)', 'Display thumbnail (150 data)', 'My List (0 data registered)', 'Save the list (0 data registered)', and 'Production History (Registered Data0)'. Below these tabs, there are icons for various actions, including a 'Save the list' icon (a document with a checkmark) which is highlighted with a red box and a circled '1'. The main table shows search results with columns: Product, Physical, Spacecraft / sensor, Start Date(UTC), End Date(UTC), Details, Operation, and My. The first row is selected, indicated by a blue checkmark in the 'My' column. A red box and a circled '2' highlight the 'Save the list' icon in the 'Operation' column of the first row. A red box and a circled '3' highlight the 'Save' button in the 'Save the list' dialog box.

List of search result

Show the list (150 data) | Display thumbnail (150 data) | My List (0 data registered) | Save the list (0 data registered) | Production History (Registered Data0)

Processing history(:param data registered)

1 row selected clear

	Product	Physical	Spacecraft / sensor	Start Date(UTC)	End Date(UTC)	Details	Operation	My
☐	L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:35:18.64	2026-09-02 23:40:06.21			
☐	L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:43:43.29	2026-09-02 23:48:30.87			
☒	L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:39:30.89	2026-09-02 23:44:18.47			
☐	L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-03 00:00:32.76	2026-09-03 00:05:20.33			
☐	L1A-SWI & TIR	Radiance	GCOM-C/SGLI	2026-09-02 22:39:14.79	2026-09-02 22:41:08.01			

Save the list

The current search result can be saved. Log in to read out the search result. The product version and information may be updated during the storage period.
* many data is may takes time.

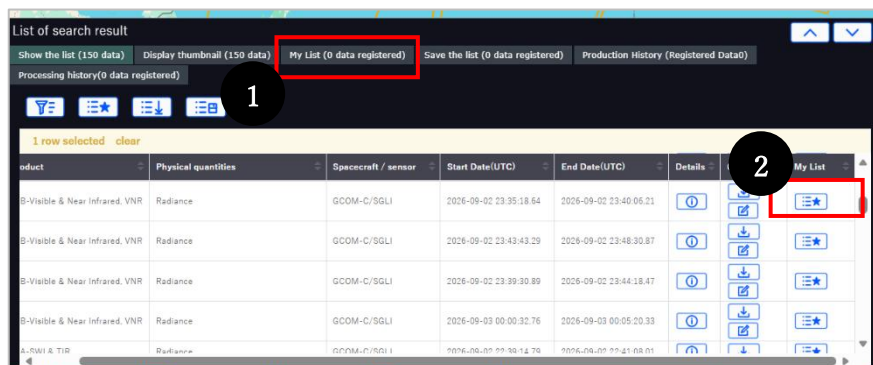
Name:

- 1) On the above "List", "Thumbnail" and "My List" tab, Click "Save the list", appears "Save the list" dialog.(only registered users)
- 2) Enter a save name.
- 3) Click the "Save" button to complete saving the conditions and close the dialog box.

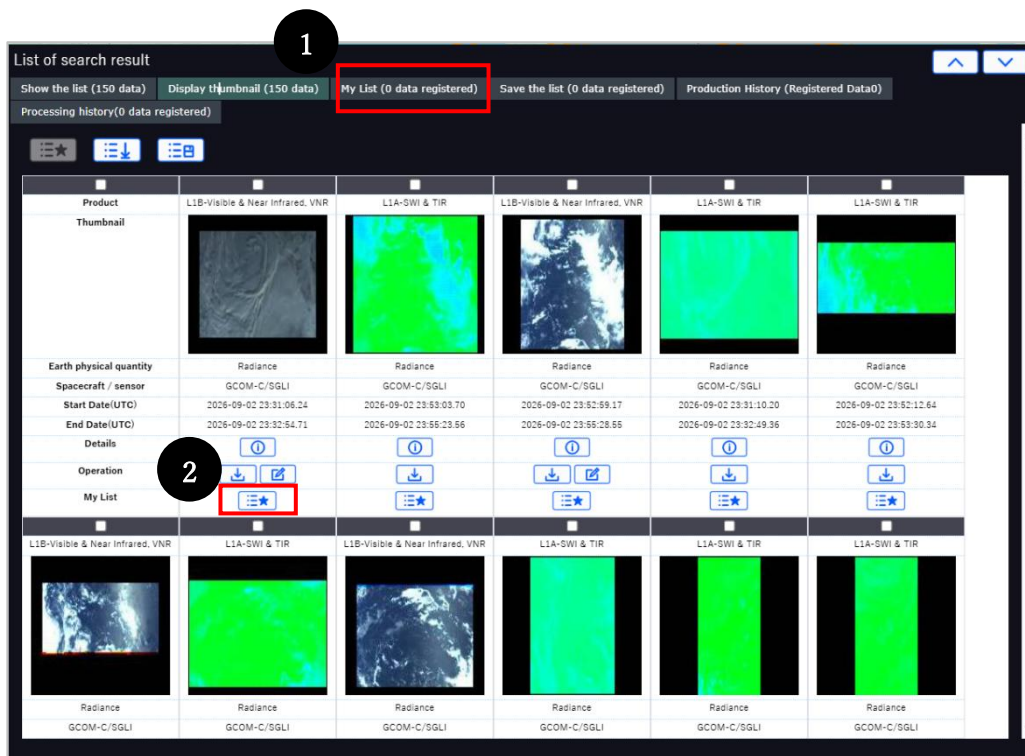
4.2.9. Save search results to mylist

You can register the product shown to “List” and “Thumbnail” on “My List”.

[List display]



[Thumbnail]

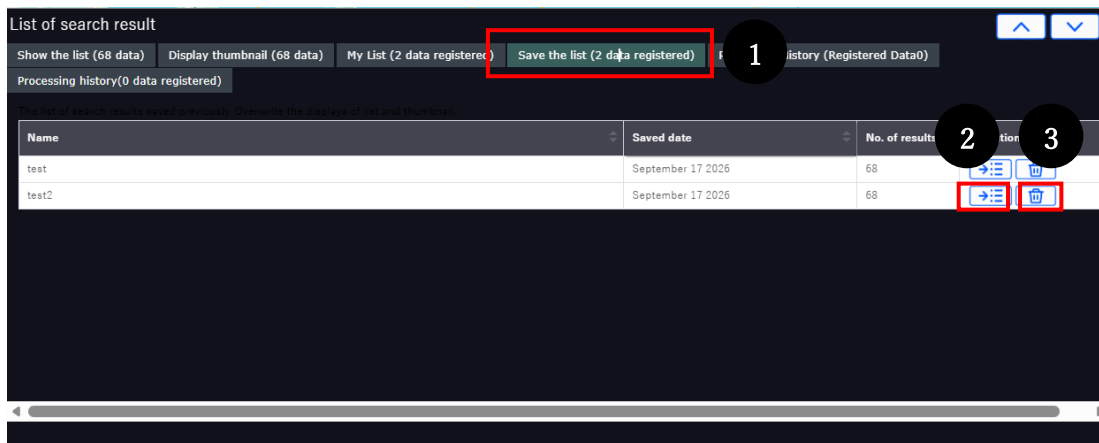


- 1) With clicking “Add selected product to My list”, register the product on “Add to My List”.
- 2) With clicking “Add to My list”, add your products to “My List”.

4.2.10. Check save the list

You can call / delete the search result list saved in the past.

[Save the list]

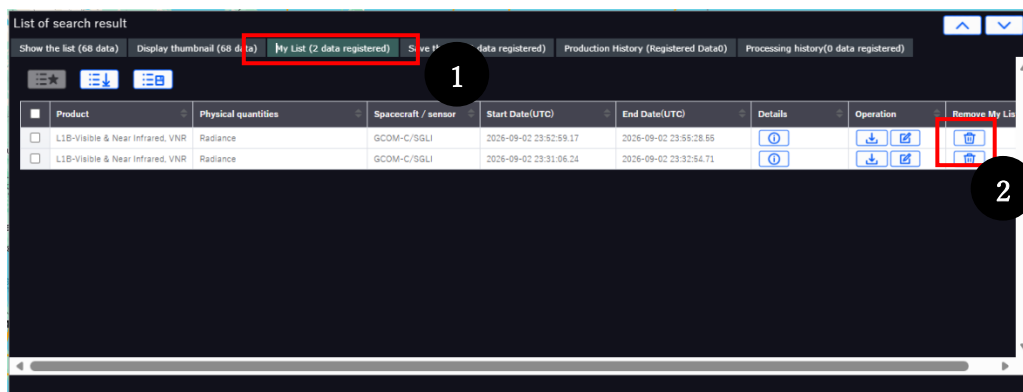


- 1) With clicking “save a list”, appears a saved data list in a saved search result list.
- 2) Click “Call” button and display “List”, “Thumbnail” and “List of search results”
- 3) Click “delete” button then delete the saved list.

4.2.11. Check my list

You can check products saved to My List in the past.

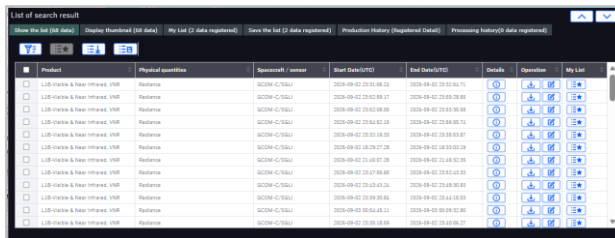
[My List]



- 1) Click “My list”, display a products list saved on “My List”.
- 2) Click “Remove a selected product on “My List” and delete the checked product on “My List”.
- 3) Click “Remove” button and delete an closed product on “My List”.

4.3. Order and download products

You can directly download the products on a list of researching result.



1) "Download " button displays to products that direct download is available on the list of search result and thumbnail of search results.



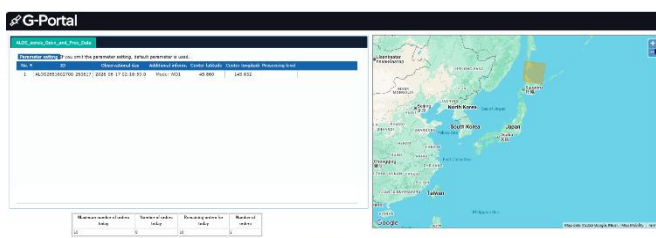
2) Click "download" button and start download.

4.4. Produce the product

For products that are compatible with production (Products transmitted via ALOS-2), you can request production.



1) Select the check box with the "Download" button displayed in the search results list or thumbnail list, and click the "Open & Free" button.



2) Since multiple selected products are displayed on the parameter setting screen, you can check the products to be set and click the "Parameter setting" button. At this time, if you check multiple products, you can set them all at once.

```
*****
This message has been sent automatically.
You cannot contact us by replying directly to this email.
Thank you for your understanding.
*****

Dear XXXXXX

Thank you for using G-Portal.
A request to produce "Open and Free Data" has been accepted.

Order Number:[order_id]
ID           : [scean_id]

[Important]
If you do not recognize the content of this email or have inquiries regarding the
system,
please reply to z-gportal-support@ml.jaxa.jp with a note to that effect.

Japan Aerospace Exploration Agency (JAXA) G-Portal Support Desk
```

3) Use the SFTP download information in the received email to make an SFTP connection from an SFTP client and download the product.

*The password is the same as the login password for the G-Portal website.

4.5 Process a product

You can make processing request for cutout/shift and format conversion for products being compatible with Table 4.5-1.

Table 4.5-1 Processed Product

Target satellite	Target product(HDF5 only)	Target processing
GCOM-C	GCOM-C product	• Format conversion (GeoTIFF)

[List of search results]

List of search result

Show the list (70 data) Display thumbnail (70 data) My List (2 data registered) Save the list (2 data registered) Production History (Registered Data0) Processing history(0 data registered)

Product	Physical quantities	Spacecraft / sensor	Start Date(UTC)	End Date(UTC)	Detail	Processing	My List
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:31:06.24	2026-09-02 23:32:54.71			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:52:59.17	2026-09-02 23:55:28.55			
☐ L1B-Visible & Near Infrared, POL	Radiance	GCOM-C/SGLI	2026-09-02 20:02:35.05	2026-09-02 21:00:51.89			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:52:08.05	2026-09-02 23:53:35.58			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:54:52.15	2026-09-02 23:56:55.74			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:32:19.33	2026-09-02 23:35:53.87			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 18:29:27.28	2026-09-02 18:33:03.19			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 21:45:07.28	2026-09-02 21:46:32.35			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:47:55.65	2026-09-02 23:52:43.33			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:43:43.24	2026-09-02 23:48:30.93			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-02 23:39:30.84	2026-09-02 23:44:18.53			
☐ L1B-Visible & Near Infrared, VNR	Radiance	GCOM-C/SGLI	2026-09-03 00:04:45.11	2026-09-03 00:09:02.90			

1) The processing request dialog displays from the “Processing” button to the search result list (Show the list tab, Display thumbnail tub and My list tab).

Case of shift request of GCOM-C scene product

Request processing [X]

Product selected: GC1SG1_202609022331H01407_1BSG_VNRDK_2014.h5 ▲

2 Restrict dataset (variable)

- ☐ Lt_VN01
- ☐ Lt_VN02
- ☐ Lt_VN03
- ☐ Lt_VN04
- ☐ Lt_VN05
- ☐ Lt_VN06
- ☐ Lt_VN07
- ☐ Lt_VN08

[Request processing] [Close]

Request processing [X]

Product selected: GC1SG1_202609022002M43100_1BSG_POLDK_2014.h5 ▲

Restrict dataset (variable)

- ☐ Lt_PI01
- ☐ Lt_PQ01
- ☐ Lt_PU01
- ☐ Lt_PI02
- ☐ Lt_PQ02
- ☐ Lt_PU02

Observational range

Northernmost Latitude (ULAT) [Example: 75.0]

Southernmost latitude (LLAT) [Example: 65.0]

[Request processing] [Close]

- 2) Select the output target channel from these check boxes.
- 3) Enter the observation range into the text box. (Applies to select products only)
- 4) Click “Request processing” button, process the request according to 2) to 3) condition.

4.6. Download production and processed products

Production request and processing request are made at 4.4 and 4.5, and when the product is complete, the product completion is notified by e-mail. You can download the production and processed products from the product link of the e-mail. In addition, you can also download products produced and processed from the search result list and production status tab.

[Product production completion e-mail]

This message was transmitted automatically.
You cannot reply to this mail directly to ask anything.

Dear XXXXX,

Thank you for always using G-Portal.
We are pleased to inform you that the processing of the following product you ordered on 2026-09-08 09:11:19 has been completed.

Production order number:97
Products Name :GC1SG1_202609022352J01412_1BSG_IRSDQ_2014.h5
Download Deadline :2026-09-15 09:20:09
Download Path:
sftp.gportal.jaxa.jp:22/provide/YY/process/97/GC1SG1_202609022352J01412_1BSG_IRSDQ_2014_Lt_SW01.tif
sftp.gportal.jaxa.jp:22/provide/YY/process/97/GC1SG1_202609022352J01412_1BSG_IRSDQ_2014_Lt_SW01.xml
sftp.gportal.jaxa.jp:22/provide/YY/process/97/GC1SG1_202609022352J01412_1BSG_IRSDQ_2014_Lt_SW02.tif
sftp.gportal.jaxa.jp:22/provide/YY/process/97/GC1SG1_202609022352J01412_1BSG_IRSDQ_2014_Lt_SW02.xml

[Important]
If you have no idea of this mail or you have questions regarding our system, please reply to z-gportal-support@ml.jaxa.jp with your comments.

Japan Aerospace Exploration Agency
G-Portal Support Desk

- 1) Access the product URL of the product production completion e-mail from the browser.

5. Change User Property/To Change Password

5.1. Change user property

Change the properties of registered users.

1. Correct the item.

2. Click "Change".

1) Correct the items you want to change via the View/Change User Property window. Items that can be changed are the name, email address, organization type, organization/department, country name, language used for email, purpose of use, Notification Email for ready.

3. Confirm the correction content.

4. Click "Register".

2) Click the "Change" button to change the user information.

3) Confirm the change for User property.

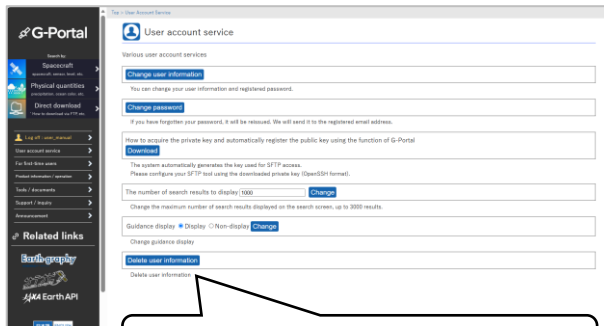
4) Click "Register" button under checking User property.

5. The message that the change has completed is displayed.

5) The User Property Change Completed window will be displayed.

5.2. Delete user property

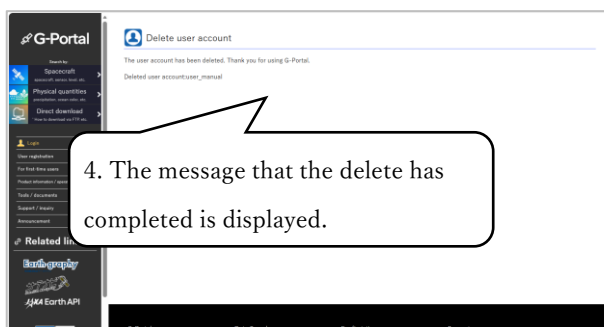
Delete the property of registered users.



1) Click to “Erase User Information” on the account service window. Appears the confirmation window to erase User Information.



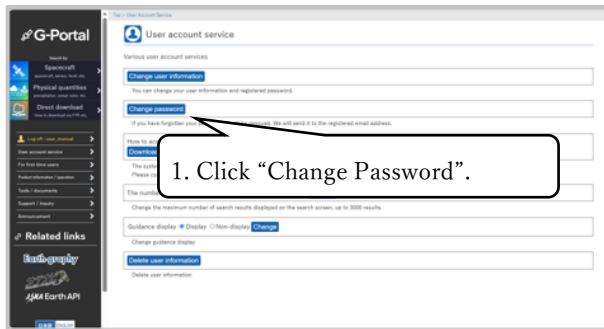
2) Check the user property to be deleted.
3) Click “Delete” to delete the user. The Deletion Complete window will be displayed, and the user account will be deleted. If you do not want to delete the user account, click the “Cancel” button. The window will return to the user account service window.



4) The User Property Deletion Complete window will be displayed.

5.3. Change passwords

Change the password of registered users.



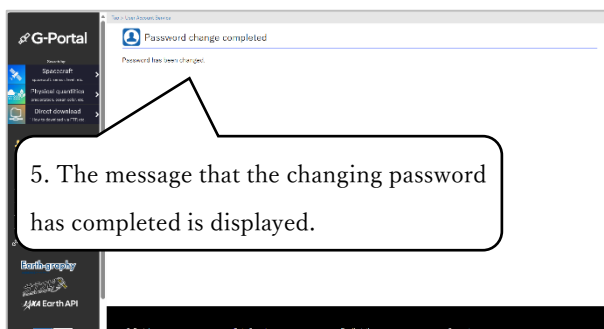
1) Click “Change Password” in the User account service window. A window where you can change the password will be displayed.



2) Enter your current password.

3) Enter a new password.

4) To change the password, click the “Change Password” button. The Change Complete window will be displayed, and the system will be updated with the new password. If you do not want to change the password, click the “Cancel” button. The window will return to the User account service window.



5) The Password Change Complete window will be displayed.

6. Obtain Information on Products

6.1. Checking the provided spacecrafts/sensors and physical quantities

The satellite sensors provided on the G-Portal can make sure (confirm) “the product information • mission control information” and “ Tool and Document” windows and physical quantities displayed for “Beginners” or the guidance on the research window.

(1) **Check spacecrafts/sensors**

The satellite sensors Provided on “Product information • mission controll information” and “ Tool • Document” were shown.

(2) **Check physical quantities**

The pysical quantities provided by “Beginners” or the guidance on research display was shown.

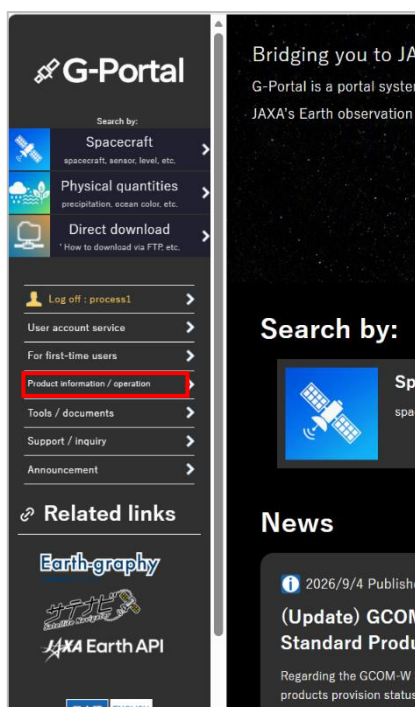
6.2. Spacecrafts/sensors operational information

Information that JAXA requires to operate its spacecrafts/sensors is available as data called Operational Information that may be valuable to users that are using products. Feel free to check this information when using products.

The provided Operational Information is as follows.

- Orbit information
- Quality information
- Missing information
- Orbit control information
- 2Line orbit element (TLE)
- Operational mode transition history
- Maneuver information

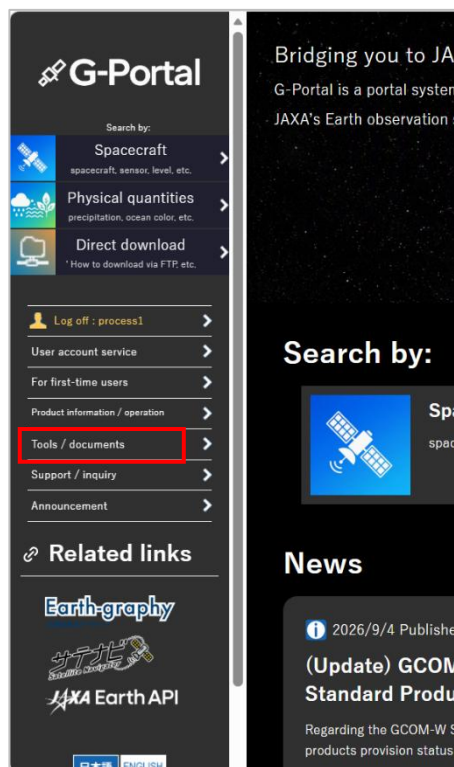
etc.



Click to “Product information/operation” on the top window. Confirm mission information relate to spacecraft sensors.

6.3. Download documents

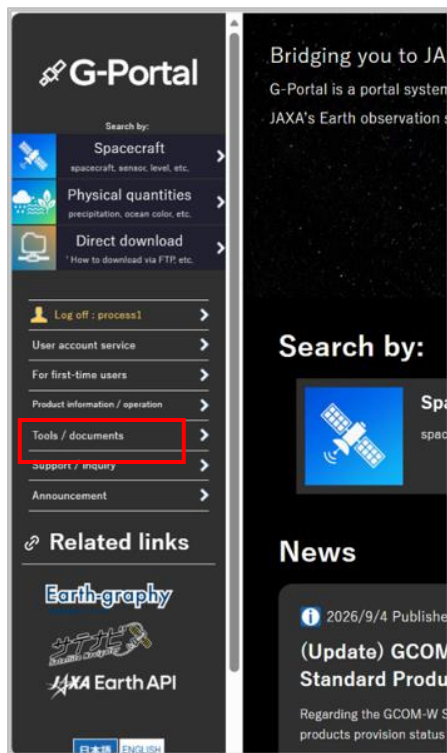
Product format descriptions, algorithm descriptions and other generation documentation is provided for each mission.



Click to “Tool/documents” on the top window.
Appears the window for downloading/a list of document.

6.4. Download the tool kit

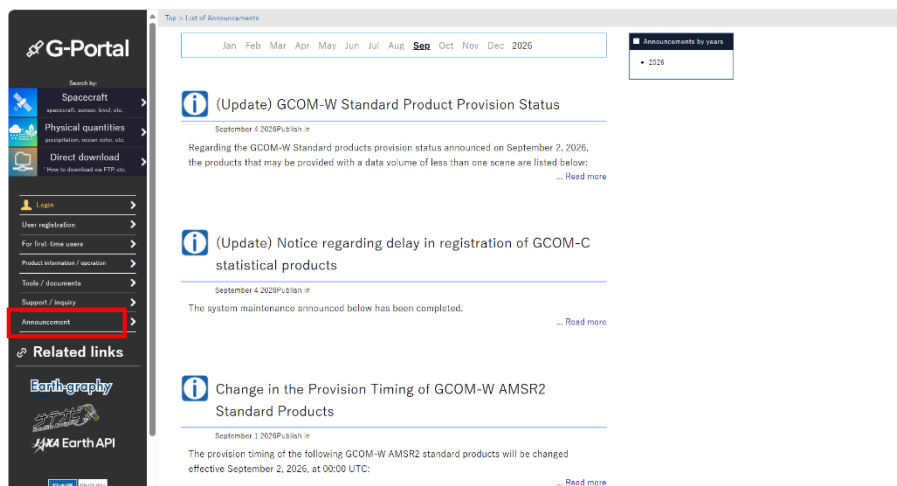
A range of tools are available to help utilize the available products. Please forward any enquiries such as usage methods or operating environment directly to the tool developer.



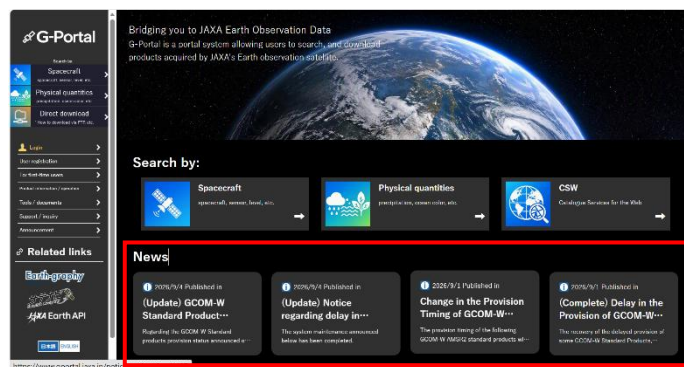
Click to “Tool/documents” at the menu on the home window. Display the window for downloading “Tool kit”.

6.5. Check announcements

You can confirm the announced information “Announcement” from G-Portal with clicking “Announcement” on the top menu.



The latest notice on the announcement window is displayed on the top of the window.



7. Help and Contact

Click “Support / inquiry” from the menu. Information on submitted inquiries about the system will be displayed.

8. Other References

8.1. Recommended browsers

The following browsers are recommended to ensure that G-Portal functions smoothly and properly. Recommended browsers are those that have already been checked as functioning properly. Some windows may not be displayed properly when using the system on browsers other than those that are recommended.

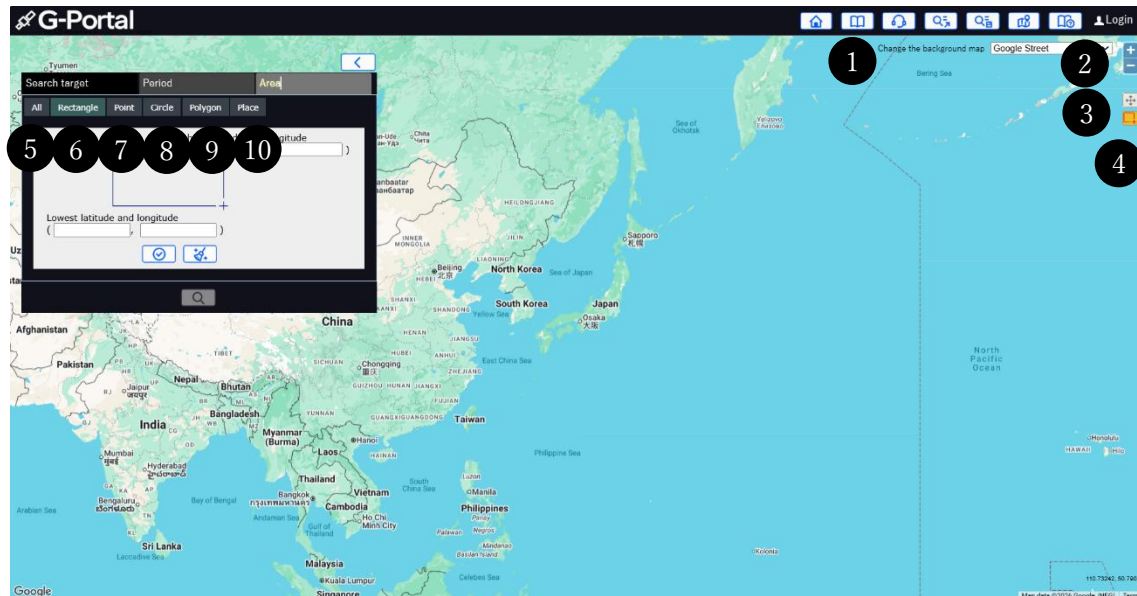
JavaScript	This site uses content that operates on JavaScript. To use this service, Javascript must be enabled in your browser.
Compatibility View Settings	When "jasa.jp" is set in the Compatibility View Settings, it is necessary to delete it.

OS version	Browser	Browser version
Windows11	Microsoft Edge	152.0.4191.53
Windows11	Firefox	156.0
Windows11	Chrome	153.0.8010.52 / .53
macOS Tahoe 26.7	Chrome	153.0.8010.52 / .53
macOS Tahoe 26.7	Safari	27

※As of September 18, 2026

Appendix 1 Map Operations

This section outlines the map operations that can be used in the enter search conditions window.



1) Switch map view/satellite view



The view can be changed from map view to satellite view.

2) Change scale



Click the “+” symbol to zoom into and display the map at one larger scale. Click the “-” symbol to zoom out and display the map at one smaller scale.

Move the slider up and down to display the map at a scale of your own choice. If you have a mouse with a mouse wheel, you can also use the mouse wheel to change the zoom scale.

3) Move



Click this icon to you can move the display region of the map.

4) Specify search region



Click this icon to you can specify search region
specify format depends on the currently selected tab.

5) All



Click the left tub, "All", specify the area of search.

6) Specify the rectangle



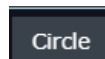
Click to the left tub "Specify the rectangle", select "Specify the rectangle" on the map.

7) Specify the point



Click the left tub "Specify the point", select "Specify the point".

8) Specify the circle



Click the left tub "Specify the circle", select to "Specify the circle".

9) Specify the point



Click to the left tub "Specify the point", select to "Specify the point".

10) Specify the place



Click to the left tub "Specify the place" as below the text field and the button, specify area name by text on a search map.

A screenshot of a search interface. At the top, there are three tabs: "Search target", "Period", and "Area". Below these are six buttons: "All", "Rectangle", "Point", "Circle", "Polygon", and "Place". The "Place" button is highlighted. Below the buttons is a text input field labeled "Place name:" with a dropdown arrow. To the right of the input field is a blue button with a magnifying glass icon. At the bottom center is a large grey button with a magnifying glass icon.

※Under input the area, click to the button "reflect on the map" and reflect to the coordinate of area on the map.

Appendix 2 Specify Observation Region

There are three selection methods for the observation range as follows:

- Specify observation range with a rectangle Appendix 2-1
- Specify observation range with a point Appendix 2-2
- Specify observation range with a circle Appendix 2-3
- Specify observation range with a polygon Appendix 2-4

Each of these methods allows a range to be specified from the map or by entering values. After a region has been specified on the map, the values can be changed to correct the search region.

Appendix 2-1 Specify observation range with a rectangle

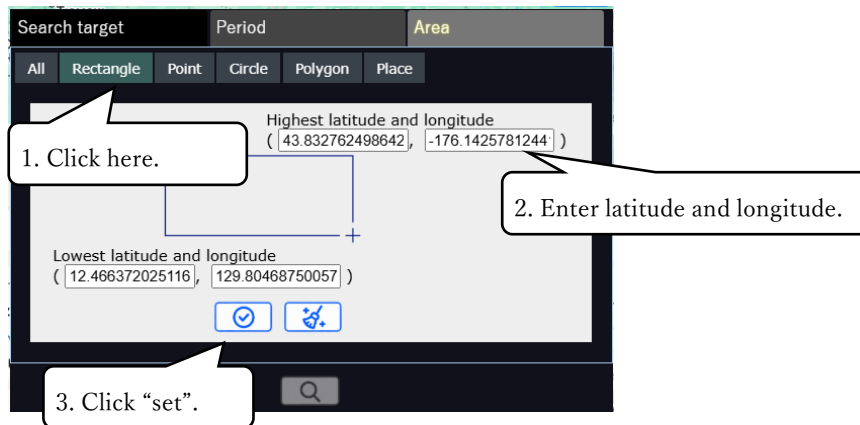
(1) Specify from the map



- 1) Click "Specify the rectangle", Text field input minimum and maximum of latitude and longitude is displayed.
- 2) Click "the icon searching area (copy the picture for the orange rectangle)" on the map, operate the orange rectangle by drag on the map.
- 3) Select the rectangle by drag. Choose the rectangle and appears minimum and maximum values of latitude and longitude to the text field.

*A click of "Clear" will clear the value inputted into the text box and selection on the map. (About "Clear", it is the same subsequent Appendix 2-2, Appendix 2-3, Appendix 2-4.)

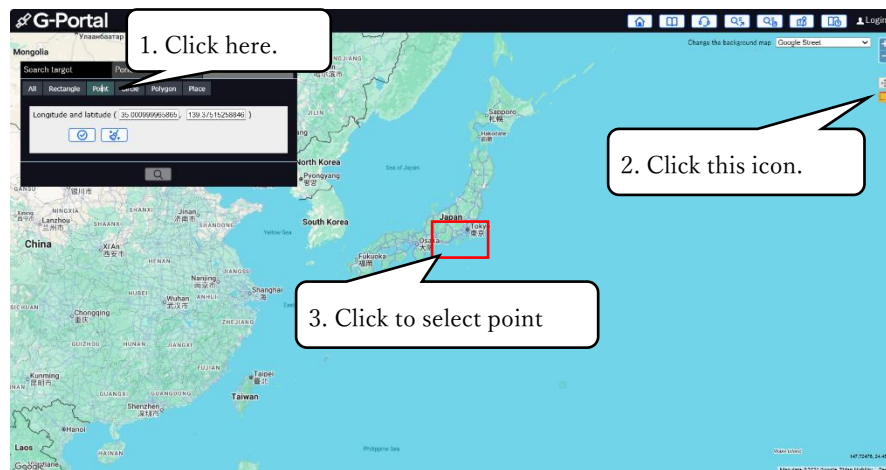
(2) Specify with values



- 1) Click "specify the rectangle" tab, and the field inputting minimum and maximum values for the latitude and the longitude appears.
- 2) Enter minimum and maximum values for the latitude and the longitude.
- 3) Click to "Setting" button. The specified area is shown by the rectangle.

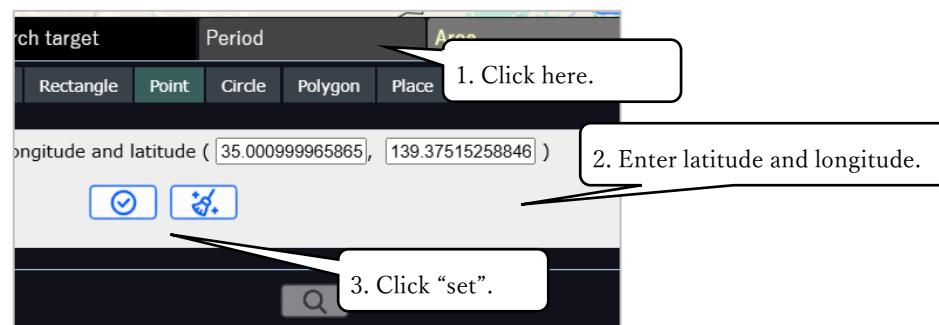
Appendix 2-2 Specify observation range with a Point

(1) Specify from the map



- 1) Click to "Specify points" tab, appears the text field input latitude and longitude.
- 2) Click "icon specifying searching area", appears latitude and longitude on the map.
- 3) Specify latitude and longitude by a mouse click, display latitude and longitude of the point in the text field.

(2) Specifying with values



- 1) Click "specify the point" tab, displays the text field input latitude and longitude.
- 2) Enter latitude and longitude.
- 3) Click "Setting", and a value input on the text field is reflected on the map.

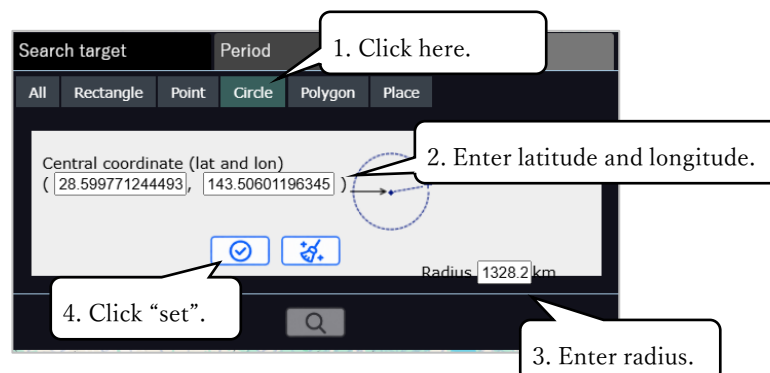
Appendix 2-3 Specify observation range with a Circle

(1) Specify from the map



- 1) Click "Specify a circle" tab, the text field specifying the circle is displayed.
- 2) Click "icon specifying a searching area" on the map, drag latitude and longitude on the map.
- 3) To specify latitude and longitude by drag and drop, Center coordination of circle and radius is displayed in the text field.

(2) Specifying with values



- 1) Click "Specify the circle", display the text field to write down Center coordinate and radius for the circle.
- 2) Enter latitude and longitude of center coordinate in the Circle.
- 3) Enter The radius of the circle.
- 4) Click "Setting" and the values input on the text field is reflected on the map.

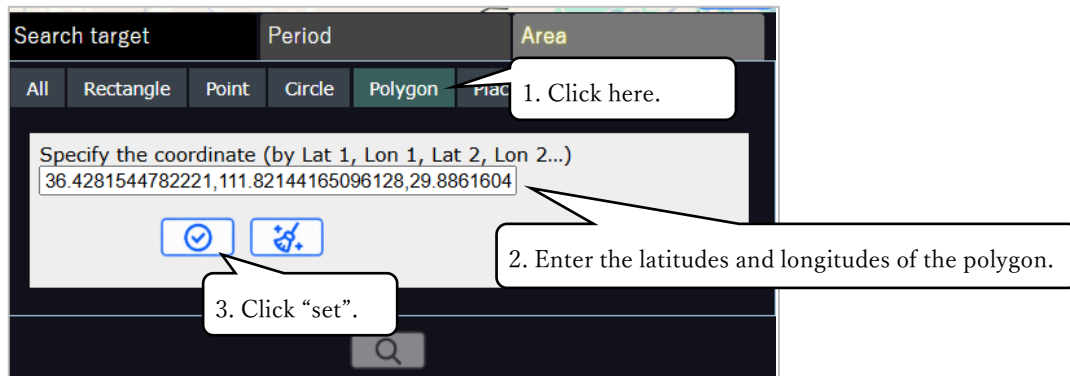
Appendix 2-4 Specify observation range with a Polygon

(1) Specify from the map



- 1) Click “Specify the polygon”, display latitude and longitude inputting on the text field.
- 2) Click “the icon of searching area” on the map, specify latitude and longitude to every corner of the polygon on drag and drop.
- 3) Specify polygon-corners of latitude and longitude. Close last corner coordinate specifying the polygon on the map. Under specifying polygon on the map and displays every corners’ coordinate on the text field.

(2) Specify with values



- 1) Click "Specify the polygon", display the latitude and longitude of polygon input into text fields.
- 2) Enter latitude and longitude to the rectangular.
- 3) Click "Setting", The values input in the text field is reflected on the map.

Appendix 3 Specify Observation Period

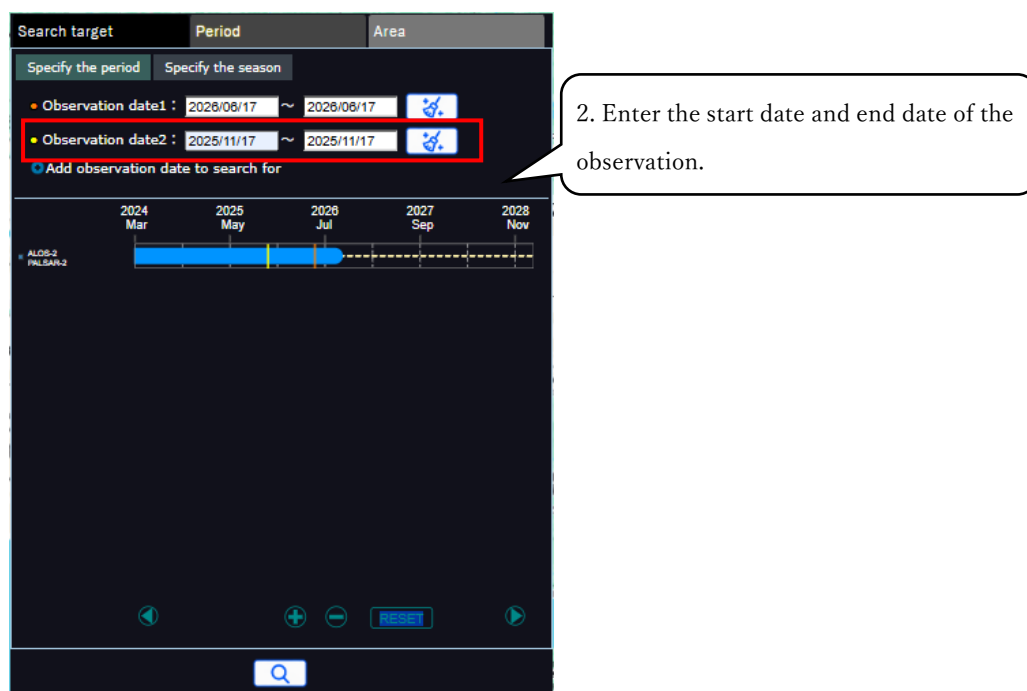
Specify the period to search. There are two selection methods for the period as follows:

- Specify period
- Specify season

Each of these methods allows the period range to be specified by (1) Entering text, (2) Entering values from the calendar icon, of (3) Entering values from the observation period bar chart.

Appendix 3-1 Specify period

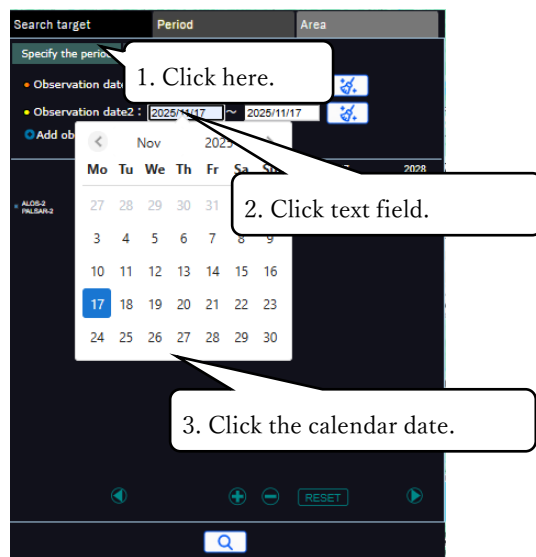
(1) Enter text



1) Click “Specify the period”, display text fields specifying between the beginning of observation date and the end of observation date. The maximum 4 “Specify the period” can select. First observation dates, The beginning day of the observation from one week of the past as initial value is set.

2) Enter the beginning and the end of the observation in text field and the input period is reflected on the bar-chart.

(2) Enter values from calendar



1) “Specify the period”, display the period between the beginning and the end observation. They can select four periods.

2) Click the observations date in text fields and appear the calendar.

3) Click the date from calendar, and set as the searching dates.

[Move icon]



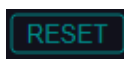
Click the bar-chart and you can change the periods to move the bar-chart to right and left.

[Scaling icon]



Click the bar-chart and you can expand and shrink the bar-chart.

[Reset icon]



Click “Reset” and clear values of periods of the observation in text field.
Return the initial status in text field.

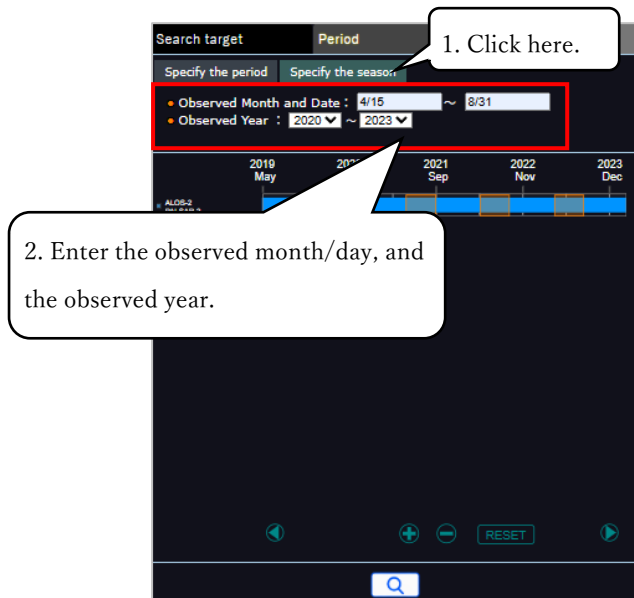
(3) Clear input observation period



- 1) Click the “Clear” button. Clear the inputted observation start date and end date.

Appendix 3-2 Specify season

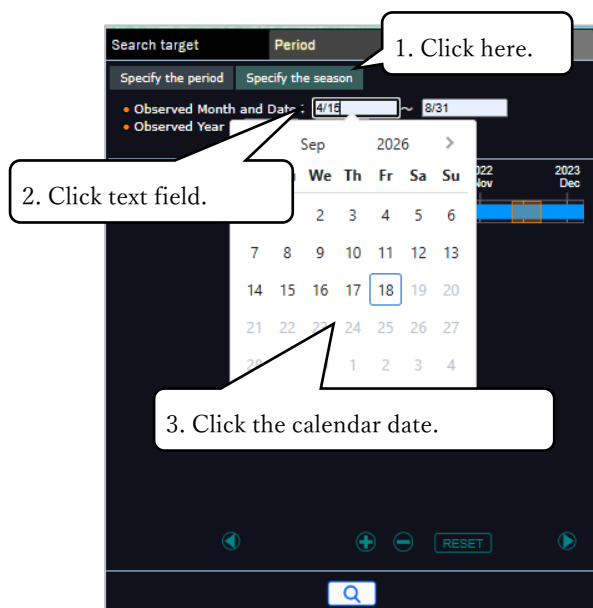
(1) Enter text



1) Click “Specify the season”, displays dates and years the beginning and the end selecting in text field and pulldown.

2) Enter observation dates and years of the beginning and the end in text fields.

(2) Enter value from the calendar



1) Click “Specify the season” and the text field and pulldown specifying season from dates and years of the beginning and the end observation is displayed.

2) Click the text field of the observation dates, a calendar displays.

3) Click the dates from a calendar, and the dates clicked in text field and pulldown is input. Set as the searching condition.

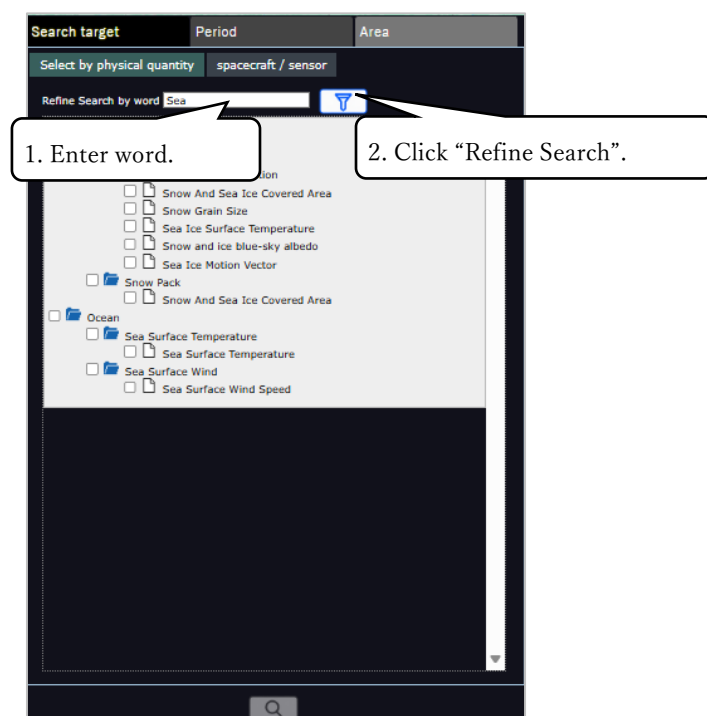
Appendix 4 Filter Search Conditions

The displayed items can be filtered by a variety of methods. There are four methods to filter searches as follows:

- Filter the physical quantity by words Appendix 4-1
- Filter the spacecrafts/sensors by words Appendix 4-2
- Filter the spacecrafts/sensors by processing level Appendix 4-3
- Filter the spacecrafts/sensors by functions Appendix 4-4

Appendix 4-1 Filter the physical quantity by words

On window selecting physical quantities as search condition, you can “refine search by” words relate to physical quantities.

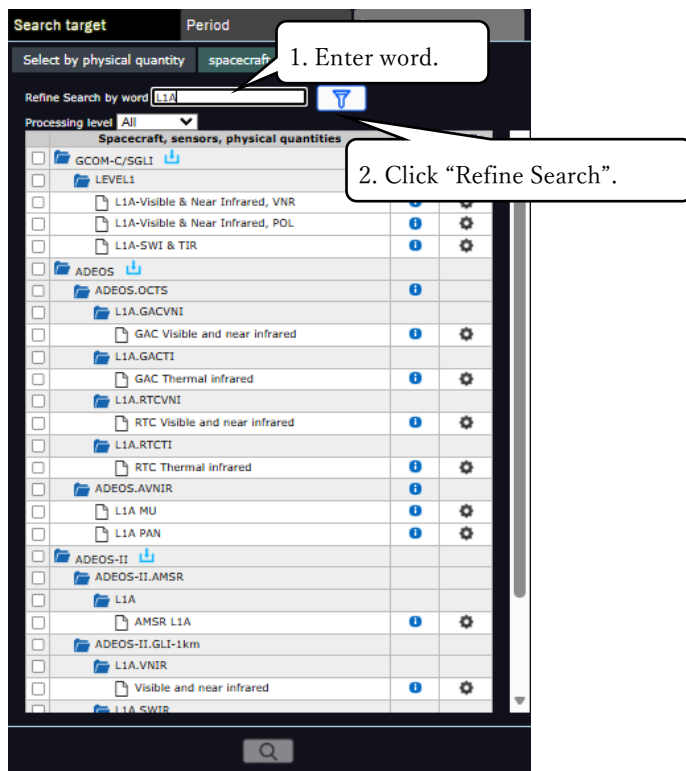


1) Enter the refining words on text field of “refine search” by window selecting physical quantities.

2) Enter a word and click “Refine search”. Display only a physical quantities relate to a word input by 1).

Appendix 4-2 Filter the spacecrafts/sensors by words

On window selecting spacecraft sensor under “search terms”, you can refine a word or words relate to spacecraft sensors.

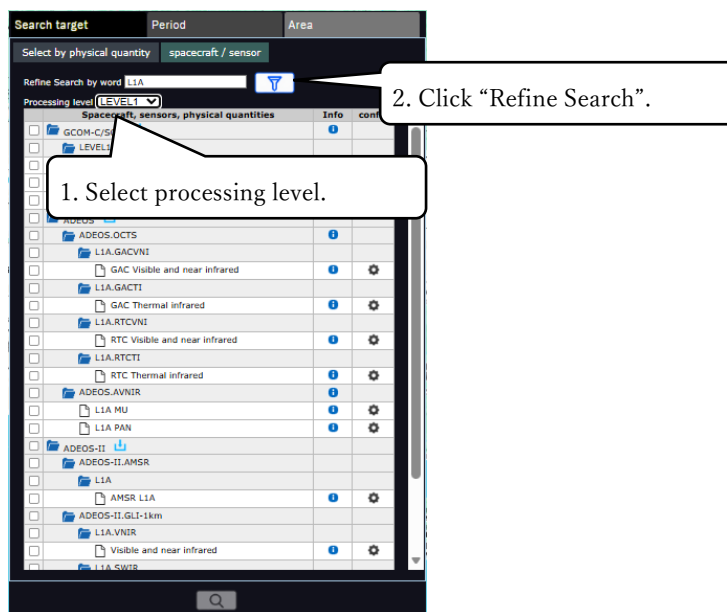


1) Enter a word or words in “Refine search by word” text field on window selecting spacecraft sensor.

2) Click to “Refine search by word” under input words. Display only spacecraft sensor relate to word (or words) input by 1).

Appendix 4-3 Filter the spacecraft/sensors by processing level

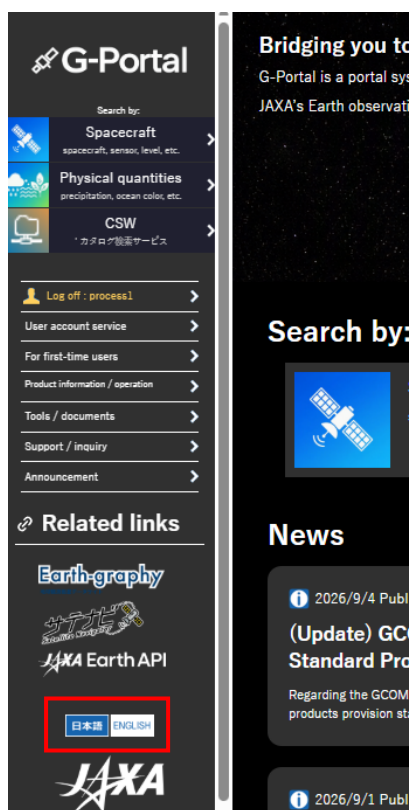
On window selecting spacecraft sensor as search term, and you can refine-search spacecraft sensor by process level.



- 1) Select process level from "process level" pulldown on window selecting aircraft sensor.
- 2) Under selecting process level and click "Refine search", display only spacecraft sensor with processing level selected by 1).

Appendix 5 Select the interface Language (Japanese/English)

Switch between Japanese and English displays from the Top page. The initial language display will be English if the OS of the computer you are using is in English or language other than Japanese, and Japanese if it is in Japanese.



Click the option at the menu of the Top page to select languages.

Appendix 6 Search using G-Portal CSW server

Appendix 6-1 Search by OpenSearch (HTTP-Get)

- Search result format

GeoJSON,HTML,ISO19115,ebRIM,atom,DublinCore

- Search all

- URL

<https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords>

- 実行例

```
$ curl -o result1.xml 'https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords'
```

- Specifying the result format

Specify the search result format following outputFormat. The following format can be specified. When specifying xml format other than atom for output, specify outputSchema as well. If not specified, DublinCore is selected.

Output format	outputFormat	outputSchema
GeoJSON	application/json	-
HTML	text/html	-
ISO19115	application/xml	http://www.isotc211.org/2005/gmd
ebRIM	application/xml	urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0
atom	application/atom+xml	-
DublinCore	application/xml	http://www.isotc211.org/2005/gmd

- GeoJSON

- URL

`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json`

- HTML

- URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=text/html`
- ISO19115
 - URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/xml&outputSchema=http://www.isotc211.org/2005/gmd`
- ebRIM
 - URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/xml&outputSchema=urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0`
- atom
 - URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/atom%2bxml`
- DublinCore
 - URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/xml&outputSchema=http://www.isotc211.org/2005/gmd`
- Specify the number of results
After the count, specify the number of search results. The default is 20 and the maximum is 3000.
 - URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&count=3`In addition, you can specify the start location of the search result following startIndex.
 - URL
`https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&count=3&startIndex=4`
- Specify dataset ID

The GPortal CSW server generates a table on a satellite basis, and decides the table that holds the catalog data using the data set ID as a key.

The data set ID is shown in the table below for the satellite unit.

Satellite name	Dataset ID
GCOM-C	10001000-10999999
GCOM-W1	11001000-11999999
GPM	12001000-12999999
GSMaP	14003000-14999999
TRMM	15001000-15999999
EarthCARE	16001000-16999999
JERS-1	17002000-17999999
MOS-1	19000000-19999999
MOS-1b	20000000-20999999
CIRC	21001000-21999999
ADEOS	22001000-22999999
ADEOS-II	23001000-23999999
AQUA	25001000-25999999
ALOS	26004000-26999999
ALOS-2	27004000-27999999
SLATS	30000000-30999999
GOSAT-GW	31001000-31999999

When searching by OpenSearch, specify dataset ID after designating datasetId.

You can specify multiple ranges with "+", multiple designations with ",".

- Data set ID specification

- URL

- <https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&datasetId=11001000>

- Data set ID specification (range specification)

- URL

- <https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&datasetId=11000000+11999999>

- Data set ID specification (multiple specifications)

- URL

<https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&datasetId=11001000,11001002>

- Specify search conditions

The following parameters can be specified as search conditions.

Search entry	String specified as parameter	Type	Example
Dataset ID	datasetId	Integer	27004001
identifier	id	String	ALOS2146782480-170209
Coordinate information	bbox	Coordinate	130,30,140,40
updateTime	updateTime	Date and time	2021-04-28T17:00:00
polar stereo	Pseq	String	EQ
acquisitionType	aqtype	String	NOMINAL
imageQualityDegradation	deg	Real number	0
processingDate	psdate	Date and time	2021-04-28T17:30:00
processingLevel	pslv	String	L1A
beginPosition	startTime	Date and time	2021-04-28T18:00:00
endPosition	endTime	Date and time	2021-04-28T18:30:00
satelliteName	sat	String	GCOM-C
sensorName	sen	String	SGLI
operationalMode	operationalMode	String	NOMINAL
wrsLongitudeGrid	pathno	Integer	240
wrsLatitudeGrid	rowno	Integer	253
orbitNumber	orbitno	Integer	3044
lastOrbitNumber	lastorbitno	Integer	679
acrossTrackIncidenceAngle	pointingAngle	Real number	0
polarisationChannels	polarisation	String	HH
daynight	daynight	String	Night
version	prdver	String	05A
cloudCoverPercentage	cloud	Real number	0

Search entry	String specified as parameter	Type	Example
totalQualityCode	quality	String	Good
physicalQuantity	physicalQuantity	String	AGB
Resolution	resolution	String	1km
numberMissingData	numberMissingData	Integer	0
sceneNumber	sceneNumber	String	17
orbitDirection	orbitDirection	String	Descending
tileHNo	tileHNo	Integer	19
tileVNo	tileVNo	Integer	10
tiltSegmentNumber	tiltSegmentNumber	Integer	1
RSPPathNumber	RSPPathNumber	Integer	232
sensorNumber	sensorNumber	Integer	1
offNadirAngle	offNadir	Real number	32.4
orbitStatus	orbitStatus	String	H
ProcessTimeUnit	ProcessTimeUnit	String	01D

- Search by granule ID

- URL

- https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&id=GW1AM2_20151200_01M_EQMA_L3SGCLWHD2210210

- Search by satellite, sensor name

- URL

- <https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&sat=ALOS&sen=PRISM>

- Search by observation date and time

- URL

- <https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&startTime=2016-11-01T00:00:00Z&endTime=2016-11-01T23:59:59Z>

- Search by coordinate information

- URL

- <https://csw.gportal.jaxa.jp/csw?service=CSW&version=3.0.0&request=GetRecords&outputFormat=application/json&bbox=130,30,140,40>

Appendix 6-2 Search by ebRIM (HTTP-POST)

- Search result format

ebRIM

- Search all

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request1.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
  </csw:Query>
</csw:GetRecords>
```

- Example of execution

```
$ curl --header 'Content-Type: application/xml; charset=utf-8;' --data-binary
@request1.xml -o result1.xml https://csw.gportal.jaxa.jp/csw
```

All items are searched and the results are output in ebRIM format.

- Specify the number of results

csw: Specify the number of search results in attribute maxRecords of GetRecords tag. The default is 10 and the maximum is 3000.

You can specify the start location of the search result in the attribute startIndex.

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request2.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="4"
  maxRecords="3"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
  </csw:Query>
</csw:GetRecords>
```

- Specify search conditions

csw: GetRecords / csw: Query / csw: Constraint / ogc: Filter Specify the search condition in the tag. Items that can be specified as search criteria are as follows.

Search entry	String specified in request xml
identifier	/rim:ExternalIdentifier/@value
parentIdentifier	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::parentIdentifier"]/rim:ValueList/rim:Value[1]
Coordinate information(*)	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::multiExtentOf"]/wrs:ValueList/wrs:AnyValue[1]
beginPosition	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::beginPosition"]/rim:ValueList/rim:Value[1]
lastOrbitNumber	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::lastOrbitNumber"]/rim:ValueList/rim:Value[1]
acrossTrackIncidenceAngle	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::acrossTrackIncidenceAngle"]/rim:ValueList/rim:Value[1]

Search entry	String specified in request xml
satelliteName	/rim:ExtrinsicObject/rim:Name/rim:LocalizedString/@value
instrumentShortName	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::instrumentShortName"]/rim:ValueList/rim:Value[1]
sensorType	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::sensorType"]/rim:ValueList/rim:Value[1]
sensorOperationalMode	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::sensorOperationalMode"]/rim:ValueList/rim:Value[1]
polarisationMode	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::polarisationMode"]/rim:ValueList/rim:Value[1]
polarisationChannels	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::polarisationChannels"]/rim:ValueList/rim:Value[1]
antennaLookDirection	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::antennaLookDirection"]/rim:ValueList/rim:Value[1]
minimumIncidenceAngle	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::minimumIncidenceAngle"]/rim:ValueList/rim:Value[1]
maximumIncidenceAngle	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::maximumIncidenceAngle"]/rim:ValueList/rim:Value[1]
dopplerFrequency	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::dopplerFrequency"]/rim:ValueList/rim:Value[1]
incidenceAngleVariation	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::incidenceAngleVariation"]/rim:ValueList/rim:Value[1]
illuminationAzimuthAngle	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::illuminationAzimuthAngle"]/rim:ValueList/rim:Value[1]
illuminationElevationAngle	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::illuminationElevationAngle"]/rim:ValueList/rim:Value[1]
snowCoverPercentage	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::snowCoverPercentage"]/rim:ValueList/rim:Value[1]

Search entry	String specified in request xml
	]
highestLocation	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::highestLocation"]/rim:ValueList/rim:Value[1]
lowestLocation	/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CSW-ebRIM-EO::lowestLocation"]/rim:ValueList/rim:Value[1]

- Search by identifier (granule ID)

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request3.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>

<ogc:PropertyName>/rim:ExternalIdentifier/@value</ogc:PropertyName>

<ogc:Literal>GW1AM2_20151200_01M_EQMA_L3SGCLWHD2210210</ogc:Literal
>
```

```
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
    </csw:Constraint>
  </csw:Query>
</csw:GetRecords>
```

- Search by satellite, sensor name

Combine search conditions for satellite name and sensor name with and.

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request4.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:gml="http://www.opengis.net/gml"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:And>
          <ogc:PropertyIsEqualTo>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Name/rim:LocalizedString/@value</og
c:PropertyName>
```

```
<ogc:Literal>ALOS</ogc:Literal>
</ogc:PropertyIsEqualTo>
<ogc:PropertyIsEqualTo>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CS
W-ebRIM-EO::instrumentShortName"]/rim:ValueList/rim:Value[1]</ogc:PropertyNa
me>

<ogc:Literal>PRISM</ogc:Literal>
</ogc:PropertyIsEqualTo>
</ogc:And>
</ogc:Filter>
</csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

- Search by observation date and time (1)

Use ogc: PropertyIsBetween

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request5.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:gml="http://www.opengis.net/gml"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
```

```
<csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
  <csw:Constraint version="1.1.0">
    <ogc:Filter>
      <ogc:PropertyIsBetween>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name='urn:ogc:def:slot:OGC-CS
W-ebRIM-EO::beginPosition']/rim:ValueList/rim:Value[1]</ogc:PropertyName>
        <ogc:LowerBoundary>
          <ogc:Literal>2016-11-01T00:00:00Z</ogc:Literal>
        </ogc:LowerBoundary>
        <ogc:UpperBoundary>
          <ogc:Literal>2016-11-01T23:59:59Z</ogc:Literal>
        </ogc:UpperBoundary>
      </ogc:PropertyIsBetween>
    </ogc:Filter>
  </csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

- Search by observation date and time (2)

Use ogc: PropertyIsGreaterThan, ogc: PropertyIsLessThan

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request6.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:gml="http://www.opengis.net/gml"
```

```
xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:And>
          <ogc:PropertyIsGreaterThan>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name='urn:ogc:def:slot:OGC-C
SW-ebRIM-EO::beginPosition']/rim:ValueList/rim:Value[1]
          </ogc:PropertyName>
          <ogc:Literal>2016-11-01T00:00:00Z</ogc:Literal>
        </ogc:PropertyIsGreaterThan>
        <ogc:PropertyIsLessThan>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name='urn:ogc:def:slot:OGC-C
SW-ebRIM-EO::beginPosition']/rim:ValueList/rim:Value[1]
          </ogc:PropertyName>
          <ogc:Literal>2016-11-01T23:59:59Z</ogc:Literal>
        </ogc:PropertyIsLessThan>
      </ogc:And>
    </ogc:Filter>
  </csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

- Search by observation date and time (3)

Use ogc: PropertyIsGreaterThanOrEqualTo, ogc: PropertyIsLessThanOrEqualTo

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request7.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:gml="http://www.opengis.net/gml"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:And>
          <ogc:PropertyIsGreaterThanOrEqualTo>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name='urn:ogc:def:slot:OGC-C
SW-ebRIM-EO::beginPosition']/rim:ValueList/rim:Value[1]
          </ogc:PropertyName>
          <ogc:Literal>2016-11-01T00:00:00Z</ogc:Literal>
        </ogc:PropertyIsGreaterThanOrEqualTo>
        <ogc:PropertyIsLessThanOrEqualTo>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name='urn:ogc:def:slot:OGC-C
SW-ebRIM-EO::beginPosition']/rim:ValueList/rim:Value[1]
          </ogc:PropertyName>
          <ogc:Literal>2016-11-01T23:59:59Z</ogc:Literal>
        </ogc:PropertyIsLessThanOrEqualTo>
      </ogc:And>
    </csw:Constraint>
  </csw:Query>
</csw:GetRecords>
```

```
</ogc:Filter>
</csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

- Search by coordinate information

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request8.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<csw:GetRecords
  service="CSW"
  version="2.0.2"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:wrs="http://www.opengis.net/cat/wrs/1.0"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:gml="http://www.opengis.net/gml"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="rim:RegistryPackage rim:ExtrinsicObject">
    <csw:ElementSetName
typeNames="rim:RegistryPackage">full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:Intersects>

<ogc:PropertyName>/rim:ExtrinsicObject/rim:Slot[@name="urn:ogc:def:slot:OGC-CS
W-ebRIM-EO::multiExtentOf"]/wrs:ValueList/wrs:AnyValue[1]</ogc:PropertyName>
        <gml:Envelope srsName="EPSG:4326">
          <gml:lowerCorner>140 40</gml:lowerCorner>
```

```
        <gml:upperCorner>130 30</gml:upperCorner>
      </gml:Envelope>
    </ogc:Intersects>
  </ogc:Filter>
</csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

Appendix 6-3 Search according to ISO 19115 (HTTP-POST)

- Search result format

ISO19115

- Search all

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request1.xml)

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<csw:GetRecords
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  service="CSW"
  version="2.0.2"
  resultType="results"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="gmd:MD_Metadata">
    <csw:ElementSetName>full</csw:ElementSetName>
  </csw:Query>
</csw:GetRecords>
```

- Example of execution

```
$ curl --header 'Content-Type: application/xml; charset=utf-8;' --data-binary
@request1.xml -o result1.xml https://csw.gportal.jaxa.jp/csw
```

Search all items and output the results in ISO 19115 format.

- Specify the number of results

csw: Specify the number of search results in attribute maxRecords of GetRecords tag.
The default is 10 and the maximum is 3000.

You can also specify the start location of the search result in the attribute startIndex.

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request2.xml)

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<csw:GetRecords
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  service="CSW"
  version="2.0.2"
  resultType="results"
  startPosition="4"
  maxRecords="3"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeName="gmd:MD_Metadata">
    <csw:ElementSetName>full</csw:ElementSetName>
  </csw:Query>
</csw:GetRecords>
```

- Specify search conditions

csw: GetRecords / csw: Query / csw: Constraint / ogc: Filter Specify the search condition in the tag. Items that can be specified as search criteria are as follows.

Search entry	String specified in request xml
Identifier	Identifier
Title	Title
Abstract	Abstract

Modified	Modified
Coordinate information(*)	BoundingBox
ParentIdentifier	ParentIdentifier
TopicCategory	TopicCategory
TemporalExtent	TemporalExtent
AnyText	AnyText

- Search by identifier (granule ID)

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request3.xml)

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<csw:GetRecords
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  service="CSW"
  version="2.0.2"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeName="gmd:MD_Metadata">
    <csw:ElementSetName>full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:PropertyIsEqualTo>
          <ogc:PropertyName>Identifier</ogc:PropertyName>

          <ogc:Literal>GW1AM2_20151200_01M_EQMA_L3SGCLWHD2210210</ogc:Literal>
        </ogc:PropertyIsEqualTo>
      </ogc:Filter>
    </csw:Constraint>
  </csw:Query>
</csw:GetRecords>
```

- Search by observation date and time (1)

Use ogc: PropertyIsBetween

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request4.xml)

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<csw:GetRecords
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  service="CSW"
  version="2.0.2"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeNames="gmd:MD_Metadata">
    <csw:ElementSetName>full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:PropertyIsBetween>
          <ogc:PropertyName>TemporalExtent</ogc:PropertyName>
          <ogc:LowerBoundary>
            <ogc:Literal>2016-11-01T00:00:00Z</ogc:Literal>
          </ogc:LowerBoundary>
          <ogc:UpperBoundary>
            <ogc:Literal>2016-11-01T23:59:59Z</ogc:Literal>
          </ogc:UpperBoundary>
        </ogc:PropertyIsBetween>
      </ogc:Filter>
    </csw:Constraint>
  </csw:Query>
</csw:GetRecords>
```

- Search by observation date and time (2)

Use ogc: PropertyIsGreaterThan, ogc: PropertyIsLessThan

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request5.xml)

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
```

```
<csw:GetRecords
```

```
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
```

```
  xmlns:ogc="http://www.opengis.net/ogc"
```

```
  service="CSW"
```

```
  version="2.0.2"
```

```
  resultType="results"
```

```
  startPosition="1"
```

```
  maxRecords="10"
```

```
  outputFormat="application/xml"
```

```
  outputSchema="http://www.isotc211.org/2005/gmd"
```

```
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
```

```
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
```

```
  <csw:Query typeName="gmd:MD_Metadata">
```

```
    <csw:ElementSetName>full</csw:ElementSetName>
```

```
    <csw:Constraint version="1.1.0">
```

```
      <ogc:Filter>
```

```
        <ogc:And>
```

```
          <ogc:PropertyIsGreaterThan>
```

```
            <ogc:PropertyName>TemporalExtent</ogc:PropertyName>
```

```
              <ogc:Literal>2016-11-01T00:00:00Z</ogc:Literal>
```

```
            </ogc:PropertyIsGreaterThan>
```

```
            <ogc:PropertyIsLessThan>
```

```
            <ogc:PropertyName>TemporalExtent</ogc:PropertyName>
```

```
              <ogc:Literal>2016-11-01T23:59:59Z</ogc:Literal>
```

```
            </ogc:PropertyIsLessThan>
```

```
          </ogc:And>
```

```
        </ogc:Filter>
```

```
</csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

- Search by observation date and time (3)

Use ogc: PropertyIsGreaterThanOrEqualTo, ogc: PropertyIsLessThanOrEqualTo

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request6.xml)

```
<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<csw:GetRecords
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  service="CSW"
  version="2.0.2"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeName="gmd:MD_Metadata">
    <csw:ElementSetName>full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:And>
          <ogc:PropertyIsGreaterThanOrEqualTo>

<ogc:PropertyName>TemporalExtent</ogc:PropertyName>
          <ogc:Literal>2016-11-01T00:00:00Z</ogc:Literal>
        </ogc:PropertyIsGreaterThanOrEqualTo>
          <ogc:PropertyIsLessThanOrEqualTo>

<ogc:PropertyName>TemporalExtent</ogc:PropertyName>
```

```

        <ogc:Literal>2016-11-01T23:59:59Z</ogc:Literal>
      </ogc:PropertyIsLessThanOrEqualTo>
    </ogc:And>
  </ogc:Filter>
</csw:Constraint>
</csw:Query>
</csw:GetRecords>

```

- Search by coordinate information

- URL

- <https://csw.gportal.jaxa.jp/csw>

- Data to POST (request7.xml)

```

<?xml version="1.0" encoding="ISO-8859-1" standalone="no"?>
<csw:GetRecords
  xmlns:csw="http://www.opengis.net/cat/csw/2.0.2"
  xmlns:ogc="http://www.opengis.net/ogc"
  xmlns:gml="http://www.opengis.net/gml"
  service="CSW"
  version="2.0.2"
  resultType="results"
  startPosition="1"
  maxRecords="10"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.opengis.net/cat/csw/2.0.2
http://schemas.opengis.net/csw/2.0.2/CSW-discovery.xsd">
  <csw:Query typeName="gmd:MD_Metadata">
    <csw:ElementSetName>full</csw:ElementSetName>
    <csw:Constraint version="1.1.0">
      <ogc:Filter>
        <ogc:Intersects>
          <ogc:PropertyName>BoundingBox</ogc:PropertyName>
          <gml:Envelope srsName="EPSG:4326">
            <gml:lowerCorner>140 40</gml:lowerCorner>
            <gml:upperCorner>130 30</gml:upperCorner>
          </gml:Envelope>
        </ogc:Intersects>
      </ogc:Filter>
    </csw:Constraint>
  </csw:Query>
</csw:GetRecords>

```

```
        </gml:Envelope>
      </ogc:Intersects>
    </ogc:Filter>
  </csw:Constraint>
</csw:Query>
</csw:GetRecords>
```

Appendix 6-4 Search by CSW 3.0 (HTTP-POST)

- Search result format

GeoJSON,ISO19115,ebRIM,DublinCore

- Search all

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request1.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
    <ElementSetName>full</ElementSetName>
  </Query>
</GetRecords>
```

- Example of execution

```
$ curl --header 'Content-Type: application/xml; charset=utf-8;' --data-binary
@request1.xml -o result1.xml https://csw.gportal.jaxa.jp/csw
```

Search all items and the results are output in DublinCore format (OGC CSW default).

- Specifying the result format

Specify the search result format with the attribute outputFormat of the GetRecords tag.

The following format can be specified. When specifying xml format as output, also specify outputSchema. If not specified, DublinCore is selected.

Output format	outputFormat	outputSchema
GeoJSON	application/json	-
ISO19115	application/xml	http://www.isotc211.org/2005/gmd
ebRIM	application/xml	urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0
DublinCore	application/xml	http://www.opengis.net/cat/csw/3.0

- GeoJSON

- URL

- <https://csw.gportal.jaxa.jp/csw>

- Data to POST (request2.xml)

- ```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
 service="CSW"
 version="3.0.0"
 outputFormat="application/json"
 xmlns="http://www.opengis.net/cat/csw/3.0"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
 <Query typeNames="Record">
 <ElementSetName>full</ElementSetName>
 </Query>
</GetRecords>
```

- ISO19115

- URL

- <https://csw.gportal.jaxa.jp/csw>

- Data to POST (request3.xml)

- ```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
  service="CSW"
  version="3.0.0"
  outputFormat="application/xml"
  outputSchema="http://www.isotc211.org/2005/gmd"
  xmlns="http://www.opengis.net/cat/csw/3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
    <ElementSetName>full</ElementSetName>
  </Query>
</GetRecords>
```

- ebRIM

- URL

- <https://csw.gportal.jaxa.jp/csw>

- Data to POST (request4.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
  service="CSW"
  version="3.0.0"
  outputFormat="application/xml"
  outputSchema="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"
  xmlns="http://www.opengis.net/cat/csw/3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
    <ElementSetName>full</ElementSetName>
  </Query>
</GetRecords>
```

- DublinCore

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request5.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
  service="CSW"
  version="3.0.0"
  outputFormat="application/xml"
  outputSchema="http://www.opengis.net/cat/csw/3.0"
  xmlns="http://www.opengis.net/cat/csw/3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
    <ElementSetName>full</ElementSetName>
  </Query>
</GetRecords>
```

- Specify the number of results

csw: Specify the number of search results in attribute maxRecords of GetRecords tag. The default is 10 and the maximum is 3000.

You can also specify the start location of the search result in the attribute startIndex.

- URL

`https://csw.gportal.jaxa.jp/csw`

- Data to POST (request6.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
  service="CSW"
  version="3.0.0"
  outputFormat="application/json"
  startPosition="4"
  maxRecords="3"
  xmlns="http://www.opengis.net/cat/csw/3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeName="Record">
    <ElementSetName>full</ElementSetName>
  </Query>
</GetRecords>
```

- Specify search conditions

GetRecords / Query / Constraint / fes: Specify search conditions in the Filter tag. Items that can be specified as search criteria are as follows.

Search entry	String specified in request xml
Dataset ID	datasetId
identifier	identifier
Coordinate information	footprint
updateTime	updateTime
polar stereo	pseq
acquisitionType	acquisitionType
imageQualityDegradation	imageQualityDegradation
processingDate	processingDate
processingLevel	processingLevel
beginPosition	beginPosition
endPosition	endPosition
satelliteName	satelliteName
sensorName	sensorName

Search entry	String specified in request xml
operationalMode	operationalMode
wrsLongitudeGrid	wrsLongitudeGrid
wrsLatitudeGrid	wrsLatitudeGrid
orbitNumber	orbitNumber
lastOrbitNumber	lastOrbitNumber
acrossTrackIncidenceAngle	acrossTrackIncidenceAngle
polarisationChannels	polarisationChannels
daynight	daynight
Version	version
cloudCoverPercentage	cloudCoverPercentage
totalQualityCode	totalQualityCode
physicalQuantity	physicalQuantity
Resolution	Resolution
numberMissingData	numberMissingData
sceneNumber	sceneNumber
orbitDirection	orbitDirection
tileHNo	tileHNo
tileVNo	tileVNo
tiltSegmentNumber	tiltSegmentNumber
EC_FrameID	EC_FrameID
RSPPathNumber	RSPPathNumber
sensorNumber	sensorNumber
offNadirAngle	offNadirAngle
orbitStatus	orbitStatus
SensorRollAngle	SensorRollAngle
FireCounts	FireCounts
SunZenithAngle	SunZenithAngle
observationIdentifier	observationIdentifier
ProcessTimeUnit	ProcessTimeUnit
parentIdentifier	parentIdentifier
Title	Title
Abstract	Abstract

Search entry	String specified in request xml
TopicCategory	TopicCategory
AnyText	AnyText

- Search by identifier (granule ID)

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request7.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
outputFormat="application/json"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:fes="http://www.opengis.net/fes/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeName="Record">
    <ElementSetName>full</ElementSetName>
    <Constraint version="1.1.0">
      <fes:Filter>
        <fes:PropertyIsEqualTo>
          <fes:ValueReference>identifier</fes:ValueReference>

          <fes:Literal>GW1AM2_20151200_01M_EQMA_L3SGCLWHD2210210</fes:Literal>
        </fes:PropertyIsEqualTo>
      </fes:Filter>
    </Constraint>
  </Query>
</GetRecords>
```

- Search by satellite, sensor name

The search condition for the satellite name and sensor name is combined with and.

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request8.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
outputFormat="application/json"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:fes="http://www.opengis.net/fes/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeName="Record">
    <ElementSetName>full</ElementSetName>
    <Constraint version="1.1.0">
      <fes:Filter>
        <fes:And>
          <fes:PropertyIsEqualTo>
            <fes:ValueReference>satelliteName</fes:ValueReference>
            <fes:Literal>ALOS</fes:Literal>
          </fes:PropertyIsEqualTo>
          <fes:PropertyIsEqualTo>
            <fes:ValueReference>sensorName</fes:ValueReference>
            <fes:Literal>PRISM</fes:Literal>
          </fes:PropertyIsEqualTo>
        </fes:And>
      </fes:Filter>
    </Constraint>
  </Query>
</GetRecords>
```

- Search by observation date and time (1)

Use fes: PropertyIsBetween

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request9.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
```

```
outputFormat="application/json"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:fes="http://www.opengis.net/fes/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
    <ElementSetName>full</ElementSetName>
    <Constraint version="1.1.0">
      <fes:Filter>
        <fes:PropertyIsBetween>
          <fes:ValueReference>beginPosition</fes:ValueReference>
          <fes:LowerBoundary>
            <fes:Literal>2016-11-01T00:00:00Z</fes:Literal>
          </fes:LowerBoundary>
          <fes:UpperBoundary>
            <fes:Literal>2016-11-01T23:59:59Z</fes:Literal>
          </fes:UpperBoundary>
        </fes:PropertyIsBetween>
      </fes:Filter>
    </Constraint>
  </Query>
</GetRecords>
```

- Search by observation date and time (2)

Use fes: PropertyIsGreaterThan, fes: PropertyIsLessThan

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request10.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
outputFormat="application/json"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:fes="http://www.opengis.net/fes/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
```

```
<ElementSetName>full</ElementSetName>
<Constraint version="1.1.0">
  <fes:Filter>
    <fes:And>
      <fes:PropertyIsGreaterThan>
        <fes:ValueReference>beginPosition</fes:ValueReference>
        <fes:Literal>2016-11-01T00:00:00Z</fes:Literal>
      </fes:PropertyIsGreaterThan>
      <fes:PropertyIsLessThan>
        <fes:ValueReference>beginPosition</fes:ValueReference>
        <fes:Literal>2016-11-01T23:59:59Z</fes:Literal>
      </fes:PropertyIsLessThan>
    </fes:And>
  </fes:Filter>
</Constraint>
</Query>
</GetRecords>
```

- Search by observation date and time (3)

Use ogc: PropertyIsGreaterThanOrEqualTo, ogc: PropertyIsLessThanOrEqualTo

- URL

<https://csw.gportal.jaxa.jp/csw>

- Data to POST (request11.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
outputFormat="application/json"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:fes="http://www.opengis.net/fes/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeNames="Record">
    <ElementSetName>full</ElementSetName>
    <Constraint version="1.1.0">
      <fes:Filter>
        <fes:And>
```

```
<fes:PropertyIsGreaterThanOrEqualTo>
  <fes:ValueReference>beginPosition</fes:ValueReference>
  <fes:Literal>2016-11-01T00:00:00Z</fes:Literal>
</fes:PropertyIsGreaterThanOrEqualTo>
<fes:PropertyIsLessThanOrEqualTo>
  <fes:ValueReference>beginPosition</fes:ValueReference>
  <fes:Literal>2016-11-01T23:59:59Z</fes:Literal>
</fes:PropertyIsLessThanOrEqualTo>
</fes:And>
</fes:Filter>
</Constraint>
</Query>
</GetRecords>
```

- Search by coordinate information

- URL

- <https://csw.gportal.jaxa.jp/csw>

- Data to POST (request12.xml)

```
<?xml version="1.0" encoding="UTF-8"?>
<GetRecords
service="CSW"
version="3.0.0"
outputFormat="application/json"
xmlns="http://www.opengis.net/cat/csw/3.0"
xmlns:fes="http://www.opengis.net/fes/2.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Query typeName="Record">
    <ElementSetName>full</ElementSetName>
    <Constraint version="1.1.0">
      <fes:Filter>
        <fes:Intersects>
          <fes:ValueReference>footprint</fes:ValueReference>
          <fes:Literal>POLYGON((130 30,140 30,140 40,130 40,130
30))</fes:Literal>
        </fes:Intersects>
      </fes:Filter>
    </Constraint>
  </Query>
</GetRecords>
```

```
</Constraint>  
</Query>  
</GetRecords>
```