GOSAT-GW TANSO-3 Product Archive
User Manual

March 2026 (Rev. C)

GOSAT-GW project, National Institute for Environmental Studies

Revision History and Details

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-	Jun. 30th, 2025	First edition
A	Nov. 10th, 2025	Revision A (First public release for users)
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Revision History and Details

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Appendix 1. Definition of Terms

1. GOSAT-GW TANSO-3 Product Archive Service Overview

This chapter describes the GOSAT-GW TANSO-3 Product Archive (G3PA) service (hereinafter referred to as "this service").

This service is an online information service that provides data and products from the TANSO-3 (Total Anthropogenic and Natural emissions mapping SpectrOmeter-3) sensor, which is onboard the GOSAT-GW (Global Observing SATellite for Greenhouse gases and Water cycle). The service is accessible through browsers and other means. Please note that user registration may be required for some services.

1.1. Data Policy and Privacy Policy of This Service

The data policy of this service complies with the GOSAT-GW TANSO-3 Data Policy (https://gosat-gw.nies.go.jp/en/gosat-gw04.html#Data_policy).

The privacy policy of this service and GDPR privacy policy comply with the privacy policy of NIES (National Institute for Environmental Studies) (https://www.nies.go.jp/kojinjoho/privacypolicy-e.html).

User registration requires agreement to the terms of use, privacy policy, and GDPR privacy policy of this service.

1.2. Service Usage Environment

This section describes the usage environment for this service.

1.2.1. Supported OS and Browsers

The combinations of operating systems and browsers supported by this service are as follows.

Table 1.2-1 Supported OS and Browser Combinations

OS	Browser	Browser Version	Supported Browser Versions	Remarks
Microsoft Windows	Google Chrome	111 or higher	125.0.6422.142	We recommend this combination.
	Microsoft Edge	104 or higher	104.0.1293.54	There is a possibility of layout disruption.
macOS	Google Chrome	104 or higher	104.0.5112.101	There is a possibility of layout disruption.
	Safari	15.6.1 or higher	15.6.1	There is a possibility of layout disruption.

Additionally, to use this service, it is necessary to enable cookies, JavaScript and Pop-ups and disable checking operation on download in your browser settings.

The steps to enable JavaScript, Pop-ups in each browser and disable checking operation on download are shown below.

- For Google Chrome

Settings	Procedure
Enable JavaScript	(1) Open Google Chrome settings. (2) Click [Privacy and security] on the left side of the browser. (3) Click [Privacy and security] - [Site settings]. (4) Click [Content] - [JavaScript]. (5) Click [Customized behaviors] - [Allowed to use JavaScript] - [Add]. (6) Enter the site's URL (https://product.gosat-gw.nies.go.jp/home/) and click [Add].
Enable Pop-ups in each browser	(1) Open Google Chrome settings. (2) Click [Privacy and security] on the left side of the browser. (3) Click [Privacy and security] - [Site settings]. (4) Click [Content] - [Pop-ups and redirects]. (5) Click [Customized behaviors] - [Allowed to send pop-ups and use redirects] - [Add]. (6) Enter the site's URL (https://product.gosat-gw.nies.go.jp/home/) and click [Add].
Disable checking operation on download	(1) Open Google Chrome settings. (2) Click [Downloads] on the left side of the browser. (3) Turn off the [Downloads] - [Ask where to save each file before downloading].

- For Microsoft Edge

Settings	Procedure
Enable JavaScript	(1) Open Microsoft Edge settings. (2) Click [Cookies and site permissions] on the left side of the browser. (3) Click [Site permissions] - [JavaScript]. (4) Click [Allow] - [Add]. (5) Enter the site's URL (https://product.gosat-gw.nies.go.jp/home/) and click [Add].
Enable Pop-ups in each browser	(1) Open Microsoft Edge settings. (2) Click [Cookies and site permissions] on the left side of the browser. (3) Click [Site permissions] - [Pop-ups and redirects]. (4) Click [Allow] - [Add]. (5) Enter the site's URL (https://product.gosat-gw.nies.go.jp/home/) and click [Add].
Disable checking operation on download	(1) Open Microsoft Edge settings. (2) Click [Downloads] on the left side of the browser. (3) Turn off the [Ask me what to do with each download].

- For Safari

Settings	Procedure
Enable JavaScript	(1) Access the site's URL (https://product.gosat-gw.nies.go.jp/home/). (2) From the menu at the top left of the screen, click [Safari] - [Preferences…]. (3) Click [Security] tab and check [Enable JavaScript].
Enable Pop-ups in each browser	(1) Access the site's URL (https://product.gosat-gw.nies.go.jp/home/). (2) From the menu at the top left of the screen, click [Safari] - [Preferences…]. (3) Click [Websites] tab and click [Pop-up Windows] at the left side. (4) Select [Allow] for this site listed under [Allow pop-up windows on the websites below:] - [Currently Open Websites].
Disable checking operation on download	(1) Access the site's URL (https://product.gosat-gw.nies.go.jp/home/). (2) From the menu at the top left of the screen, click [Safari] - [Preferences…]. (3) Click [General] tab and select a specific directory in [File download location:].

1.2.2. Required Software

This service provides products archived in ZIP format. Therefore, please prepare software to extract and unzip ZIP files. However, NIES is not responsible for any damage, loss, or other disadvantages, whether direct or indirect, arising from or related to the use of the software.

1.2.3. Notice for Users with E-mail Blocking Settings

Users who have set up e-mail blocking for specific domains or users may not receive e-mails from NIES. Please ensure that you can receive e-mails from the NIES domain "nies.go.jp". The setup method varies depending on your e-mail environment.

1.3. Service Provided

This section describes the services provided. The available services vary depending on the user category.

1.3.1. About Data Users

The user categories for data usage in this service are as follows. To download products, you must apply for registration as either a "General User" or an "Authorized User". Please refer to Chapter 3 for details on the application process. Note that MOE and NIES shall hereinafter collectively be referred to as the "Two Parties".

- Guest User: A general user who has not registered. Only able to view notifications. Searching and downloading standard published products is not possible.
- General User: A general user who has registered. Able to view notifications and search and download standard published products.
- Authorized User
  - No observation requests: Users who fall into the qualification criteria 1 (below). This type of Authorized User is eligible to receive standard products prior to public release as needed.
  - Observation requests available: Users who fall into the qualification criteria 1 and 2 (below). This type of Authorized User is eligible to receive standard products prior to public release as needed, and can apply requests of the Focus Mode observation.

・Qualification Criteria 1:

Category (1-1): NIES or those who have concluded Memorandums of Understanding (MOUs) regarding research and development or joint research agreements with NIES and cooperated in the validation of TANSO-3 observational data, retrieval calculations, or data utilization such as emission estimation

Category (1-2): MOE, organizations which have concluded LOIs regarding climate change observations or other agreements with MOE, or those who undertake business or operations commissioned by MOE and cooperate in the utilization of TANSO-3 data

Category (1-3): Those who have research or business plans for utilizing TANSO-3 data and are authorized by the Two Parties

・Qualification Criteria 2:

Category (2-1): Those who have concluded MOUs, LOIs, or joint research agreements with either of the Two Parties and conducted observations of cities, regions, and point sources in Japan and abroad based on the Plan for Global Warming Countermeasures, the Climate Change Adaptation Plan, the Basic Plan on Space Policy and Schedule, or NIES's research plan

Category (2-2): Those who belong to research institutes submitting observation requests for academic research purposes, foreign government agencies submitting observation requests for use in climate change policies such as estimating their own country's emissions, or private companies submitting observation requests which may lead to emission reductions in Japan through emission reduction measures, credit generation, etc.

Category (2-3): Others who submit observation requests deemed necessary through consultation between the Two Parties

1.3.2. About Service Content

The service content varies according to user category.

Table 1.3-1 List of services provided by GOSAT-GW TANSO-3 Product Archive

services provided	referent	Service availability			
		Guest Users	General Users	Authorized Users	
				No observation requests	Observation requests available
Home					
News	2.3	✓	✓	✓	✓
Documents	2.4	✓	✓	✓	✓
Support	2.5	✓	✓	✓	✓
User Registration					
User Registration(General User)	3.1	✓	-	-	-
User Registration(Authorized User)	6.1 6.2	✓	✓	-	-
Login / Logout					
Login	4.1	-	✓	✓	✓
Logout	4.2	-	✓	✓	✓
Password Change	4.3	-	✓	✓	✓
User Information Update	4.4	-	✓	✓	✓
E-mail Address Change	4.5	-	✓	✓	✓
User Information Download	4.6	-	✓	✓	✓
Application for Account Deletion	4.7	-	✓	✓	✓
Application for Account Unlock	4.8	-	✓	✓	✓
Product Search & Download					
Browser Search					
Search Condition Input	5.2.1	-	✓	✓	✓
List of Search Results	5.2.2	-	✓	✓	✓
Product Details	5.2.3	-	✓	✓	✓
Product Download	5.2.4	-	✓	✓	✓
Command Search					
Command Search	5.3.1	-	✓	✓	✓
Download by Command	5.3.2	-	✓	✓	✓
Observation Request					
Application for Observation Request	7.1	-	-	-	✓
Reference of Observation Request History	7.2	-	-	-	✓
Partial Modification of Observation Requests	7.3	-	-	-	✓
Canceling Observation Requests	7.4	-	-	-	✓
Notification of Acceptance or Rejection of Observation Requests	7.5	-	-	-	✓
Notification of Observation Results	7.6	-	-	-	✓
Others					
Contact Us	8.1	✓	✓	✓	✓

「✓」: service available, 「-」: service unavailable

1.4. Common Items

This section explains the common items in this manual and on the screen.

1.4.1. User availability is indicated next to the headings

No indication: Available to all users including guest users, general users, and authorized users.

- We will indicate the available users next to the heading.

  Not Specified : All users, including guest users, general users, authorized users can use this.

  <For Guest Users>: : Available to guest users.

  <For General Users>: : Available to general users.

  <For Authorized Users>: : Available to authorized users.

  <For Authorized Users (Observation Request Available)>: : Available to authorized users who can request observations.

- Notes and restrictions are indicated as necessary.

Restrictions:

We will describe any restrictions on operations.

Notes:

We will describe any notes on operations.

1.4.2. Common Items on the Screen

Common items on the screen are as follows.

1.4.2.1. Time Display

Unless otherwise stated, the time is displayed in UTC (Universal Time Coordinated).

1.4.2.2. Input Fields

Required input fields are marked with "(required)" next to the item name.

If a required input field is left blank and buttons such as [Confirm] or [Save] are clicked, a message prompting input will appear, and you cannot proceed further.

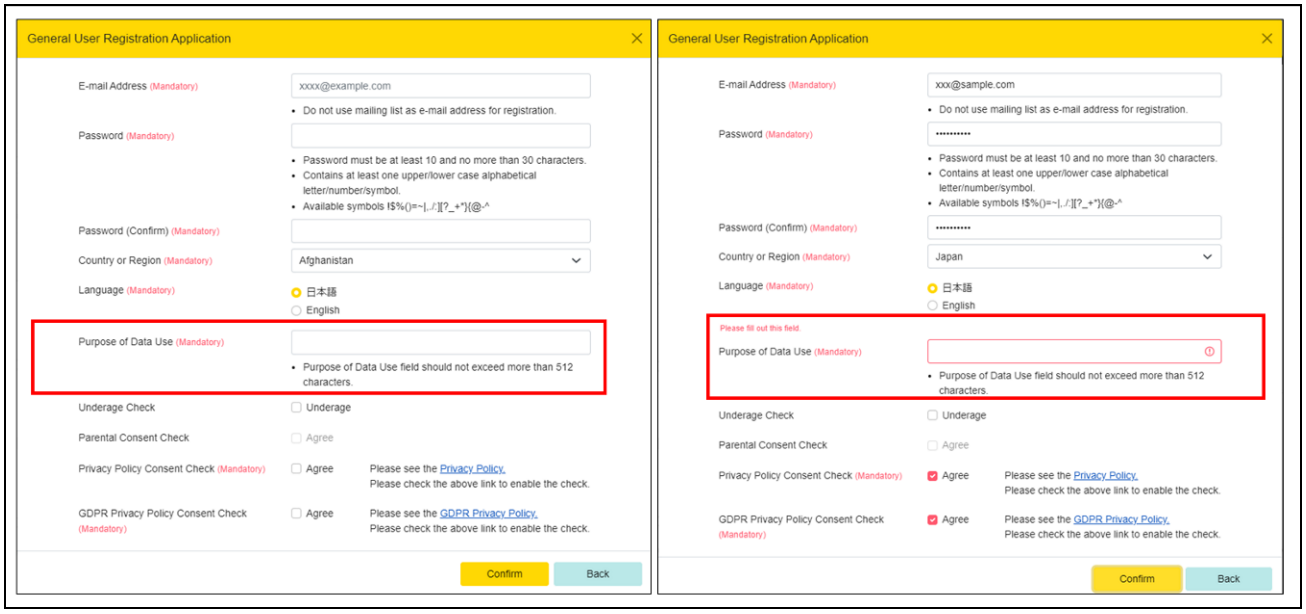


Figure 1-1 Input Fields (Left: Before Input, Right: When Error Message is Displayed)

1.4.2.3. Tooltips

Hovering over the [?] icon displays supplementary information.

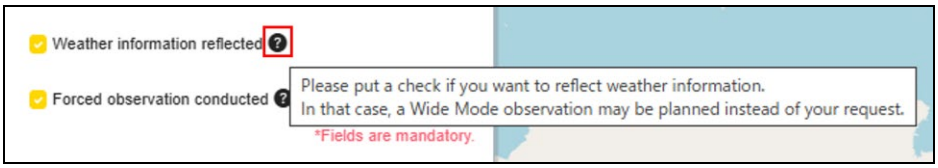


Figure 1-2 Tooltip

1.4.2.4. Search Results

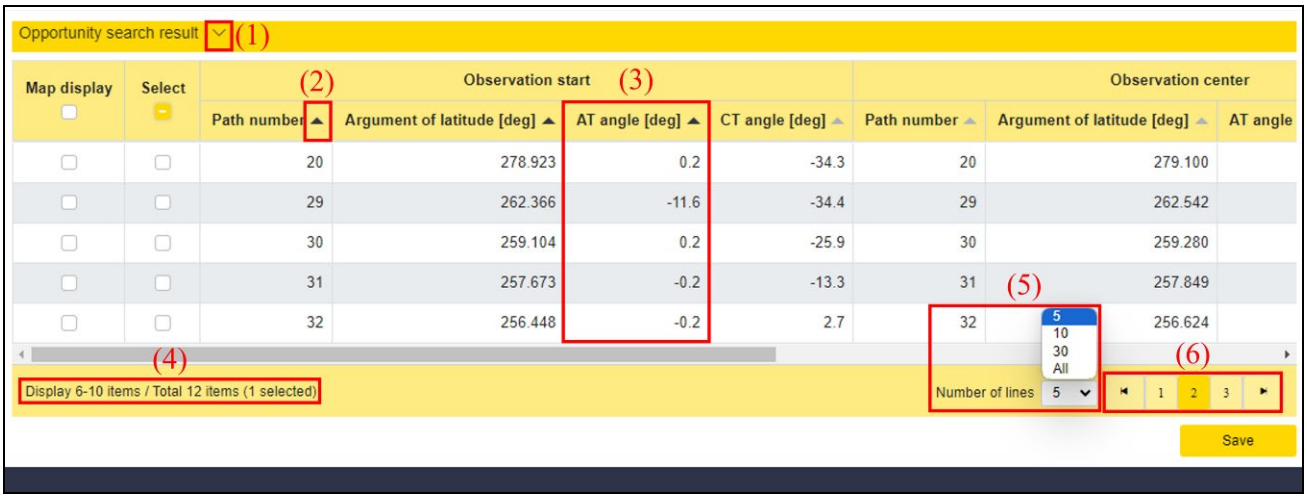


Figure 1-3 Representation of Search Results

(1) [Show/Hide Search Results]

Toggle the display of search results. Click [ ] to hide, and [ ] to show.

(2) [Sort]

Click to sort the displayed search results. Click [ ] for ascending order and [ ] for descending order.

Initially, multi-sorting from the first to third sort is enabled.

If it appears grayed out like [ ], sorting is disabled.

(3) [Adjust Column Width]

Hovering over the right edge of a column changes the cursor to a double arrow.

Dragging in this state allows you to adjust the column width.

Double-clicking in this state automatically adjusts the column width to fit the maximum width.

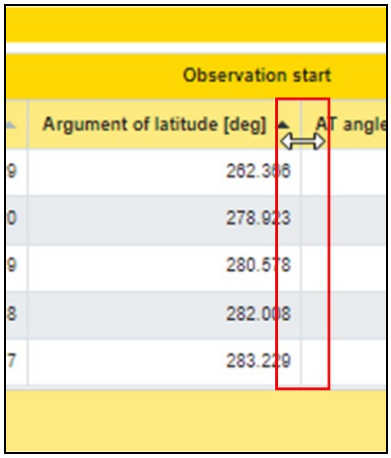


Figure 1-4 Column Width Adjustment

(4) [Search Results Count]

Displays the total number of search results and the number of results displayed on the current page.

If the search results are selectable, the current number of selected items is also displayed.

(5) [Display Count]

Sets the number of items displayed per page.

[Page Navigation]

[⏮] : Moves to the first page.

[Page Number] : Moves to the selected page.

[⏭] : Moves to the last page.

Note that if the search results are selectable, navigating to another page will clear the selection state.

1.4.2.5. Panel

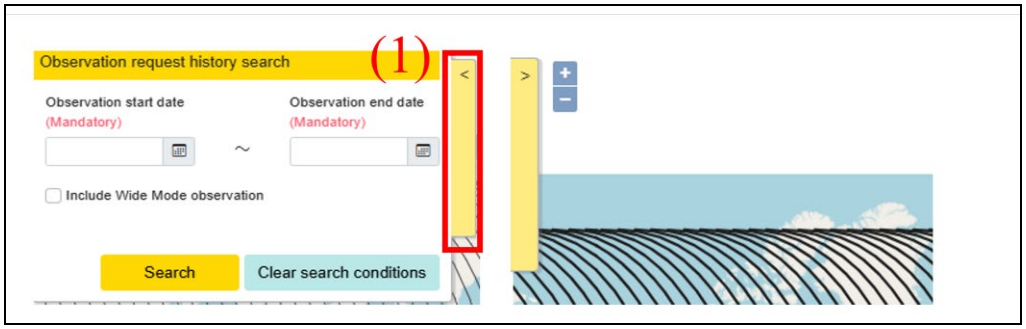


Figure 1-5 Panel (left : visible, right : hidden)

(1) [Show/Hide Panel]

Toggle the display of the panel. Click [<] to hide, and [>] to show.

1.4.2.6. Confirmation Dialog

Displayed when confirming whether to proceed with an operation.

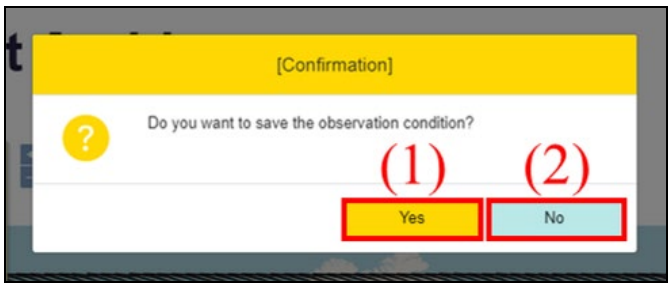


Figure 1-6 [Confirmation] Dialog

(1) [Yes] Button

Proceeds with the operation described in the message.

(2) [No] Button

Stops the operation described in the message and returns to the original screen.

1.4.2.7. Information Dialog

Displayed to notify when a process is completed, etc.

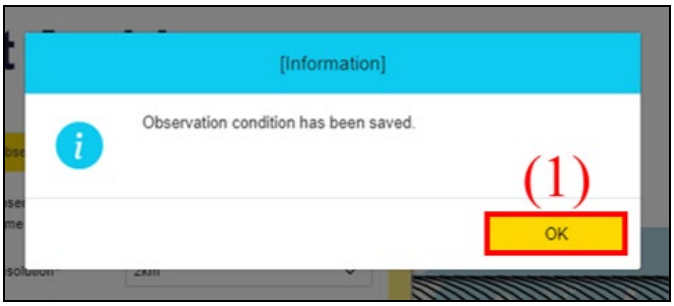


Figure 1-7 [Information] Dialog

(1) [OK] Button

Closes the dialog.

1.4.2.8. Warning Dialog

Displayed when a warning occurs during processing.

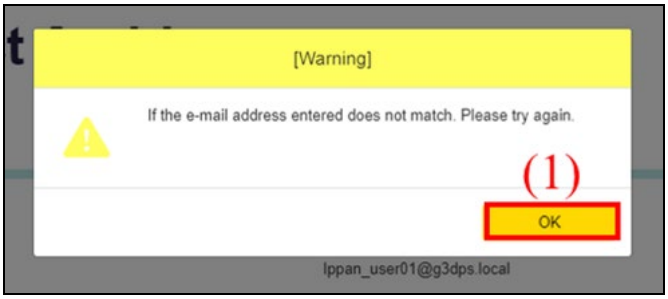


Figure 1-8 [Warning] Dialog

(1) [OK] Button

Closes the dialog.

1.4.2.9. Error Dialog

Displayed when an error occurs during processing.

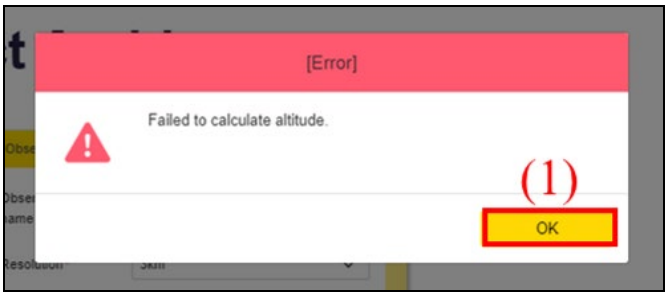


Figure 1-9 [Error] Dialog

(1) [OK] Button

Closes the dialog.

2. Main Screen

This chapter explains the structure of the [Home] screen, as well as the contents of notifications, documents, and support.

2.1. Home

This section describes the [Home] screen.

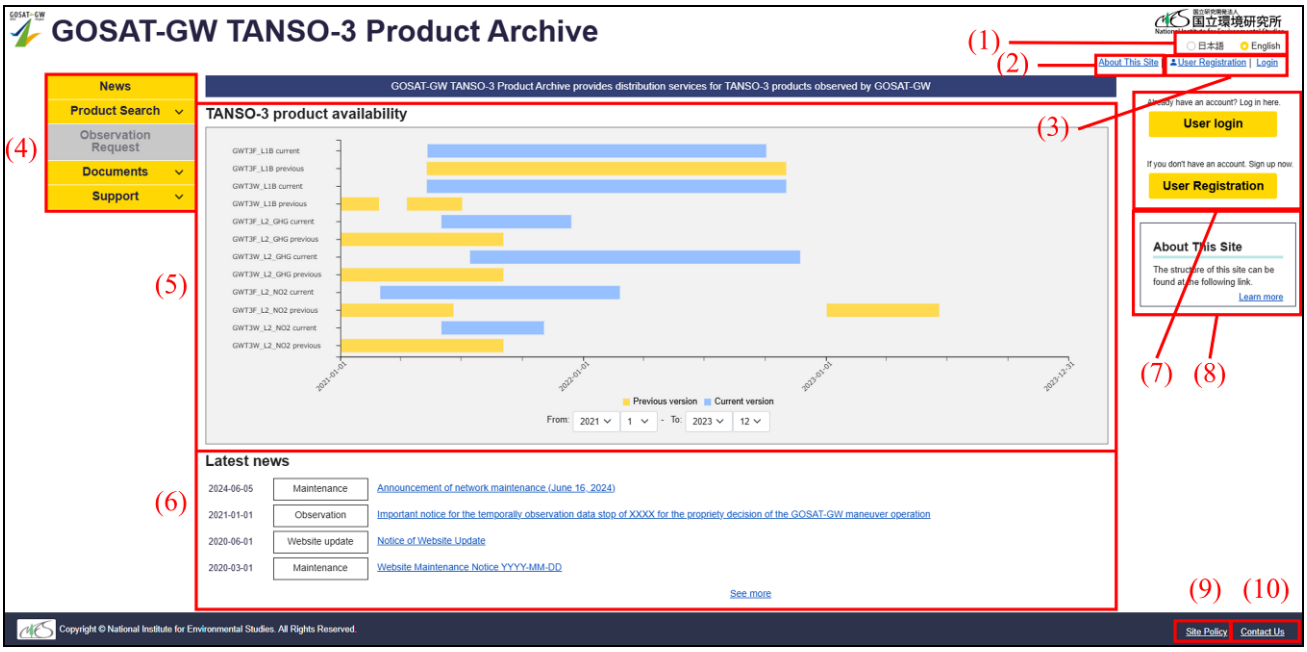


Figure 2-1 [Home] Screen

(1) [Language Setting]

Switch the language of the display between Japanese or English.

(2) [About This Site] Link

Displays information about this service and site.

(3) [User Registration], [Login] Link

Before logging in, [User Registration] and [Login] are displayed, and after logging in, you can modify user information. The menu displayed changes as follows:

- Before login

Figure 2-2 Links for [User Registration], [Login] before login

- After login for general user

Figure 2-3 Links for [General User], [Logout] after login for general user

- After login for authorized user

Figure 2-4 Links for [Authorized User], [Logout] after login for authorized user

(4) [Menu]

Various menus are displayed. For details on the various menus, please refer to Section 2.2.

(5) [Product Availability]

You can check the availability status of products currently offered by this service. You can change the display period of the graph by using the dropdown menu, allowing you to check specific periods in more detail. The legend for the graph is as follows:

Blue: Latest version of the product

Yellow: Previous version of the product

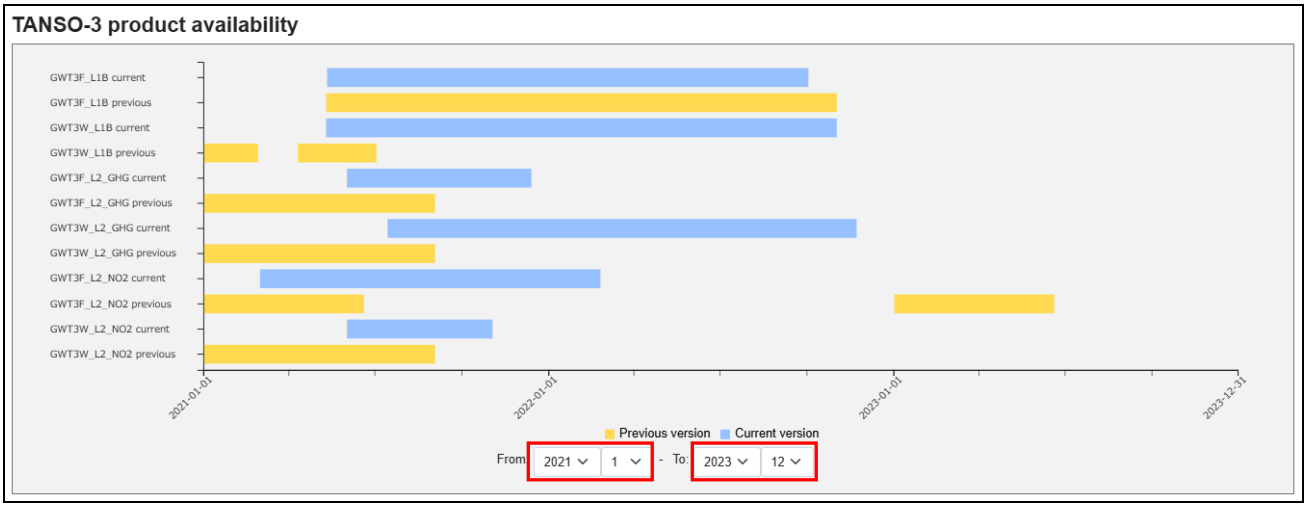


Figure 2-5 Product Availability - Select Period

Additionally, by hovering the cursor over the bar graph, you can view detailed information, which includes:

product: Product name and edition

version: Product version

period: Data period of the product

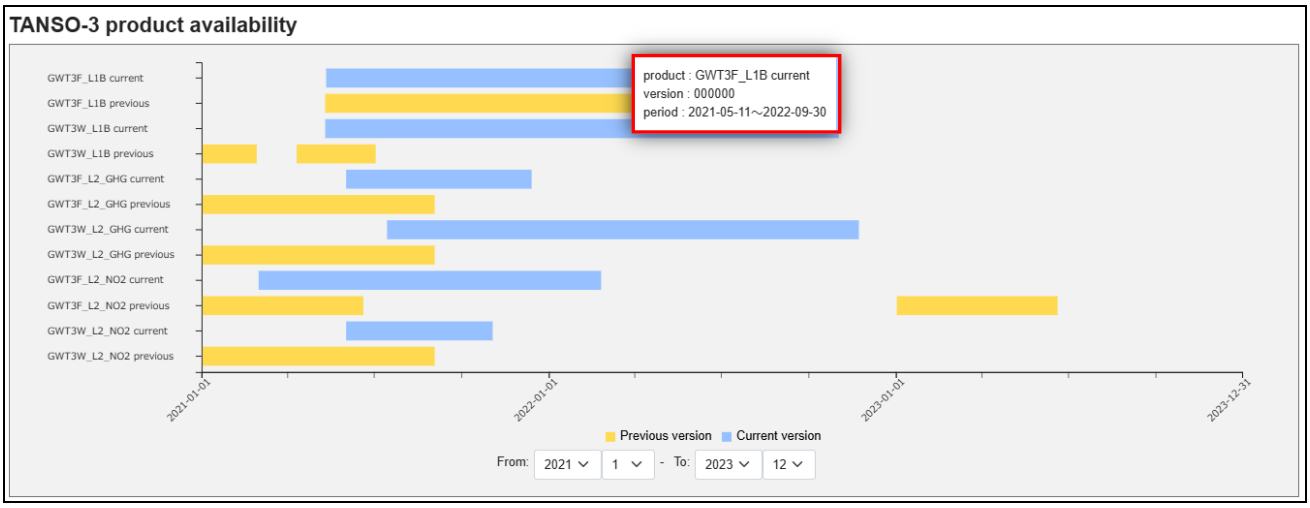


Figure 2-6 Product Availability - Detailed Display

The date labels which are displayed on the graph will change when the specified period is one month, less than one year, or greater than one year.

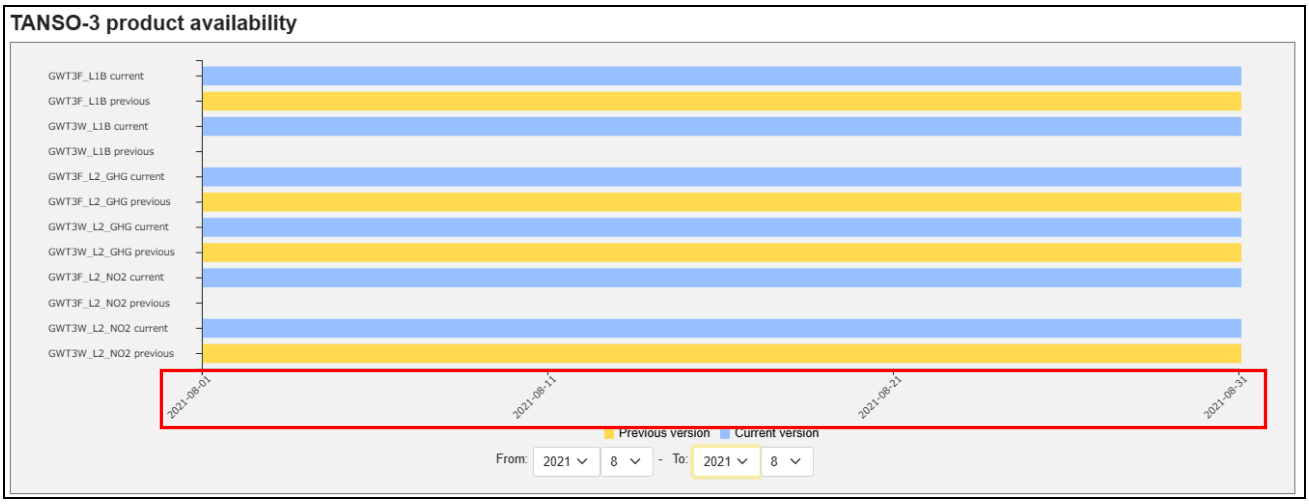


Figure 2-7 Product Availability – one month

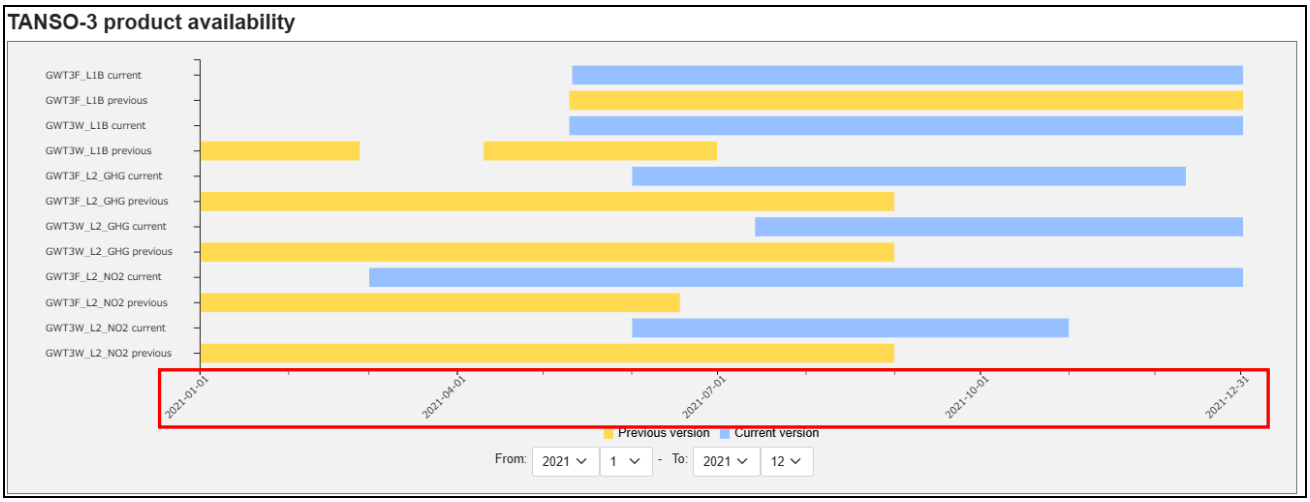


Figure 2-8 Product Availability – one year

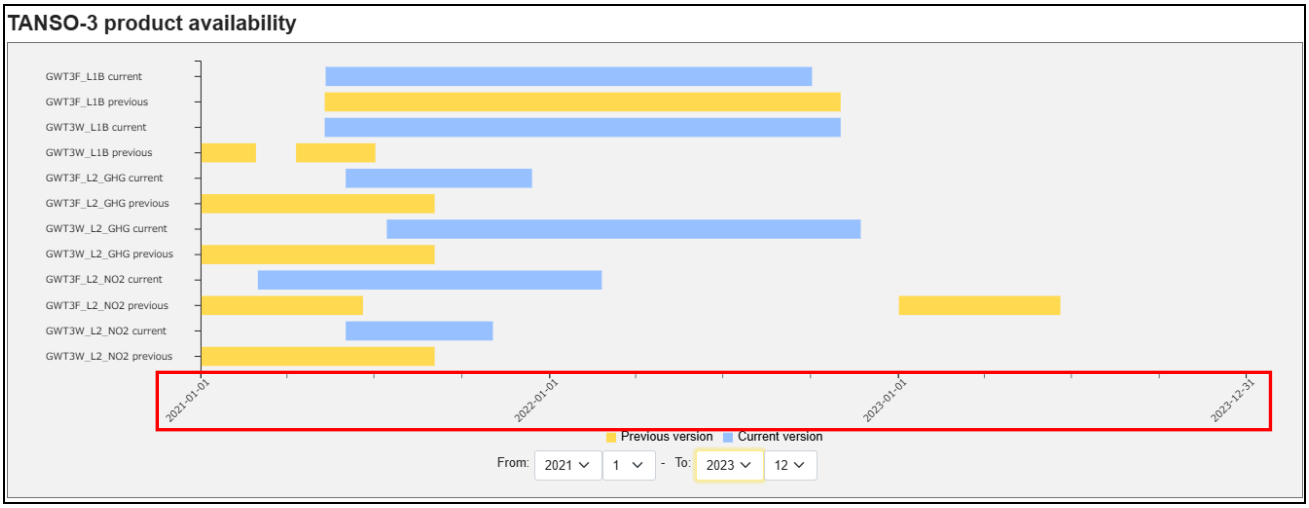


Figure 2-9 Product Availability – longer than one year

Notes:

Depending on the size of the displayed graph and the period of time the graph is displayed, there is a possibility that the date text on the graph may overlap. To eliminate this problem, change the graph size and display period.

(6) [News] Link

Displays the latest four news items. Clicking on the title of a news item takes you to the [News Details] screen. Clicking on the [News List] link takes you to the [News List] screen. For more information about the [News List] and [News Details] screens, please refer to Section 2.3.

(7) [Login], [User Registration] Button

Before logging in, [Login] and [User Registration] are displayed, and after logging in, [Logout] and [User Information] buttons are displayed.

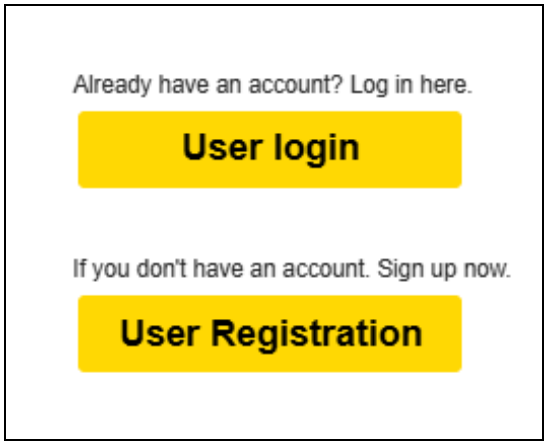


Figure 2-10 [User Login], [User Registration] button before login

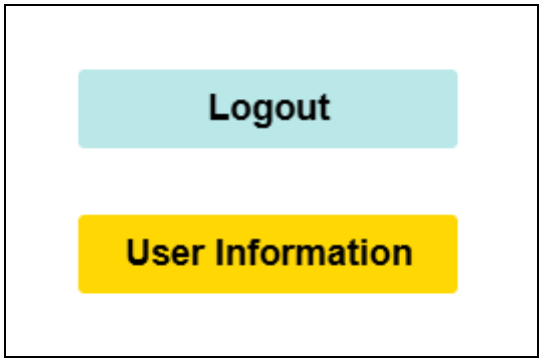


Figure 2-11 [Logout], [User Information] button after login

(8) [About This Site] Link

Displays information about this service and site.

(9) [Site Policy] Link

Displays the site policy of this service.

(10) [Contact Us] Link

Displays contact information for inquiries about this service and the products handled by this service.

2.2. Menu

This section describes the various menus.

Figure 2-12 [Menu] Screen

The menu is located within the red frame on the left side of the screen in Figure 2-12. The available menus differ for each data user, and as shown in Figure 2-13, there are selectable menus (yellow, light blue) and non-selectable menus (gray).

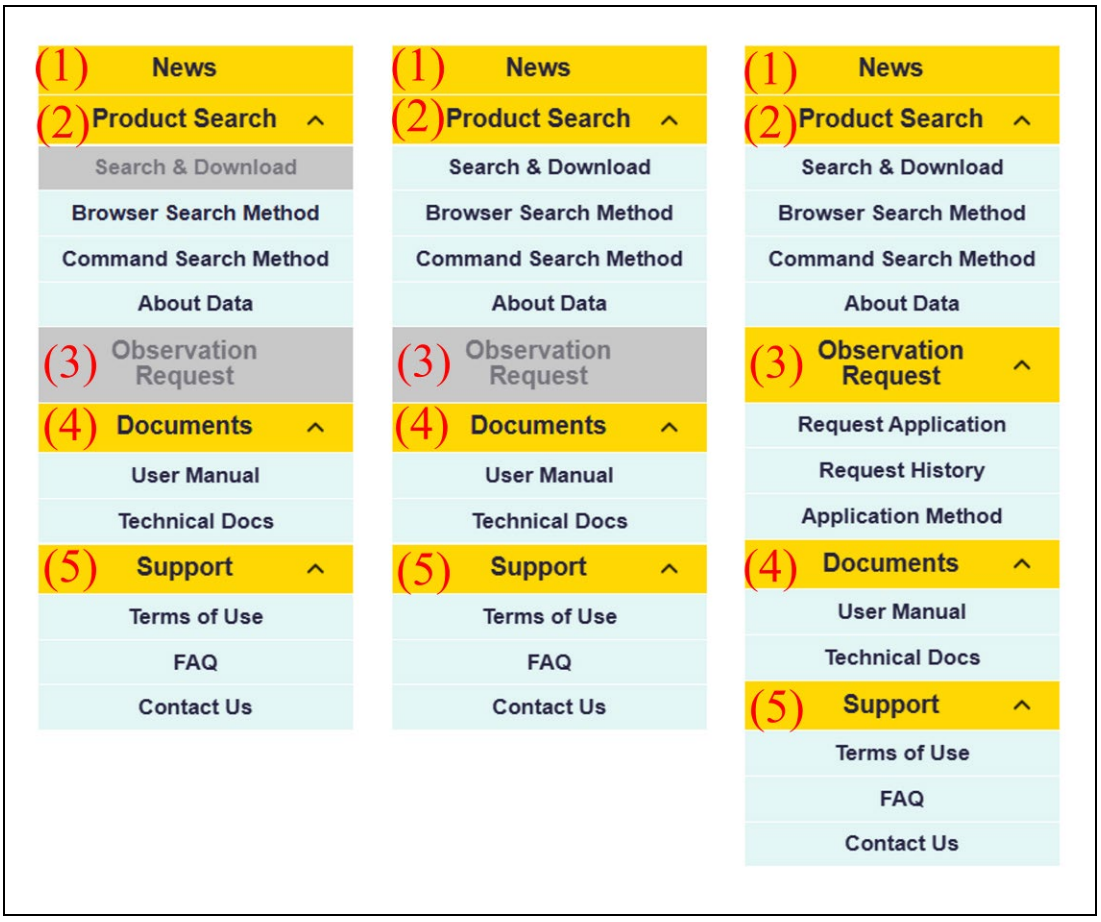


Figure 2-13 From left: Guest User, General User and Authorized User (No Observation Requests), Authorized User (Observation Requests Available) [Menu]

(1) [News]

Transitions to the [News List] screen. Please refer to Section 2.3 for the [News List] screen.

(2) [Product Search]

You can search for products, download them, and check procedures. For product search and download, please refer to Chapter 5.

(3) [Observation Request]

You can perform operations related to observation requests. For observation requests, please refer to Chapter 7.

(4) [Documents]

You can check documents available from this site. For documents, please refer to Section 2.4.

(5) [Support]

Displays support information related to the use of this site. For support, please refer to Section 2.5.

2.3. News

This section describes the news list.

The [News List] screen displays a list of notices. Clicking on the [By year] items on the right side of the screen displays the list for the selected year and clicking on the [Category] items display the list for the selected category. Clicking on the title of a notice transitions to the [News Details] screen.

Figure 2-14 [News List] Screen

Figure 2-15 [News Details] Screen

2.4. Documents

This section describes user manuals and technical documents.

User manuals can be accessed from the [User Manual] screen, and you can refer to them by clicking the PDF icon shown in the red frame in Figure 2-16.

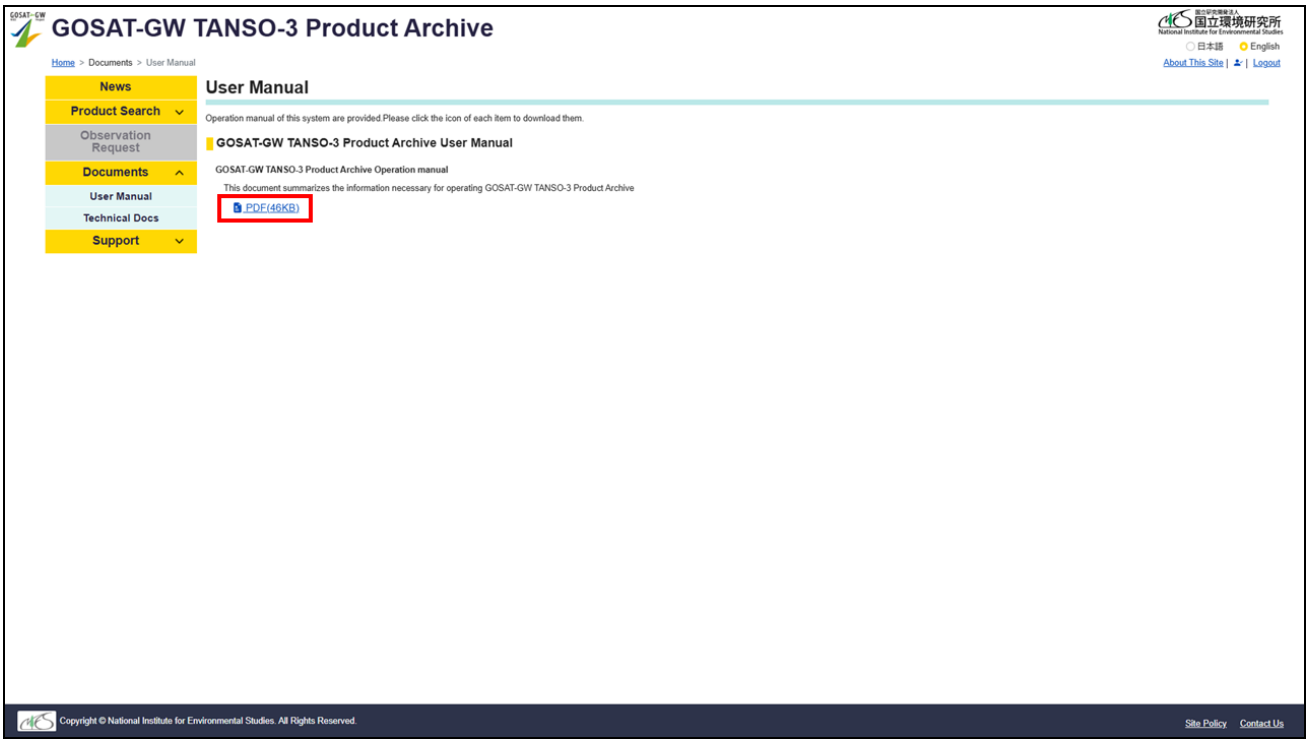


Figure 2-16 [User Manual] Screen

Technical documents can be accessed from the [Technical Documents] screen. Each technical document is categorized into one of the following categories: [Product description], [Information of provided products], [Technical documents], [Others]. Categories and technical documents may change depending on system settings. Like the user manuals, you can refer to them by clicking the PDF icon shown in the red frame in Figure 2-17.

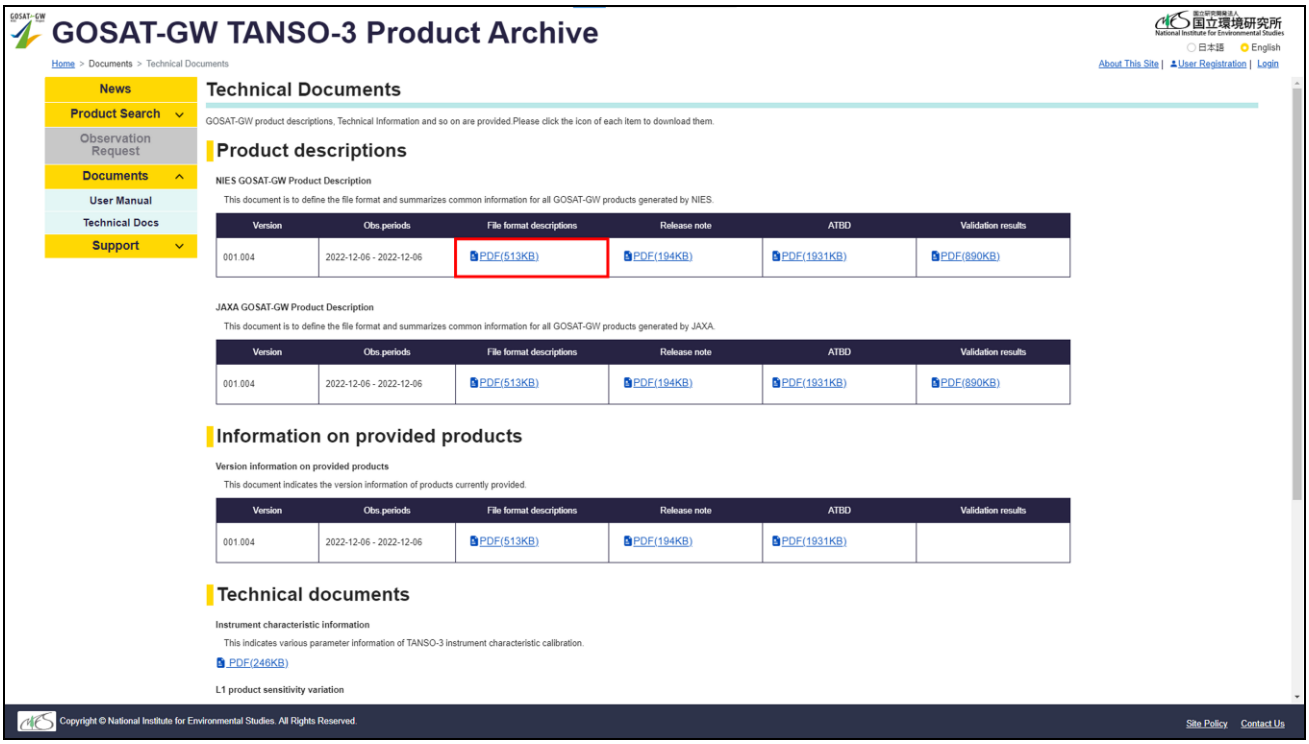


Figure 2-17 [Technical Documents] Screen

2.5. Support

This section describes the content related to support for this service.

- [Terms of Use]: Displays the terms of use for this service.

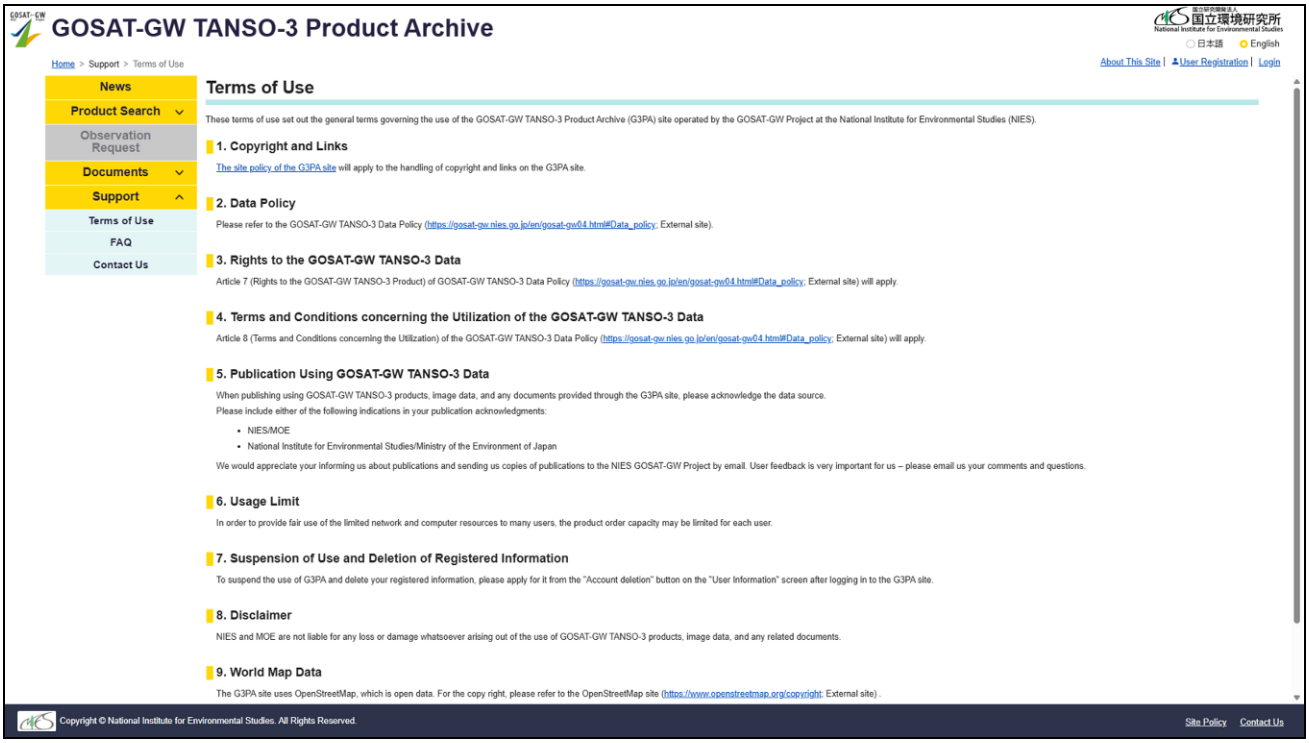


Figure 2-18 [Terms of Use] Screen

- [FAQ]: Displays frequently asked questions and their answers.

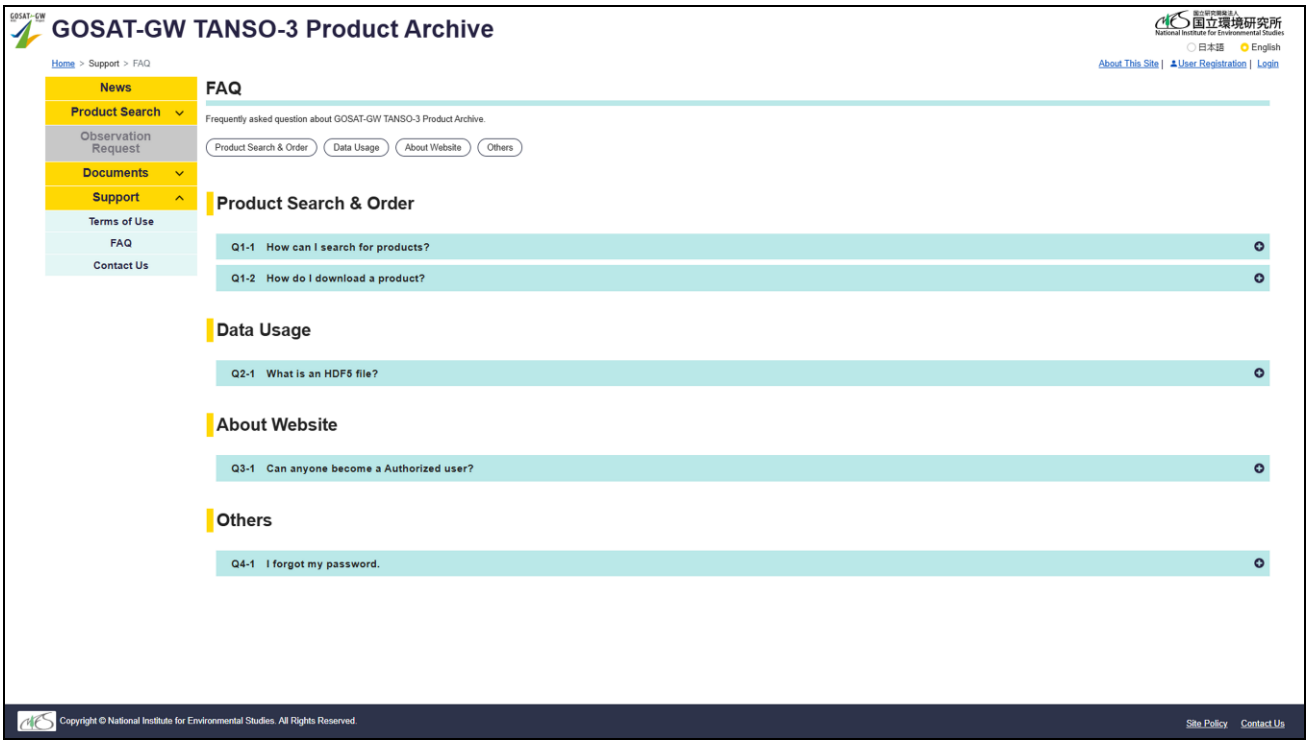


Figure 2-19 [FAQ] Screen

- [Contact Us]: Displays contact information for inquiries about this service and the products handled by this service.

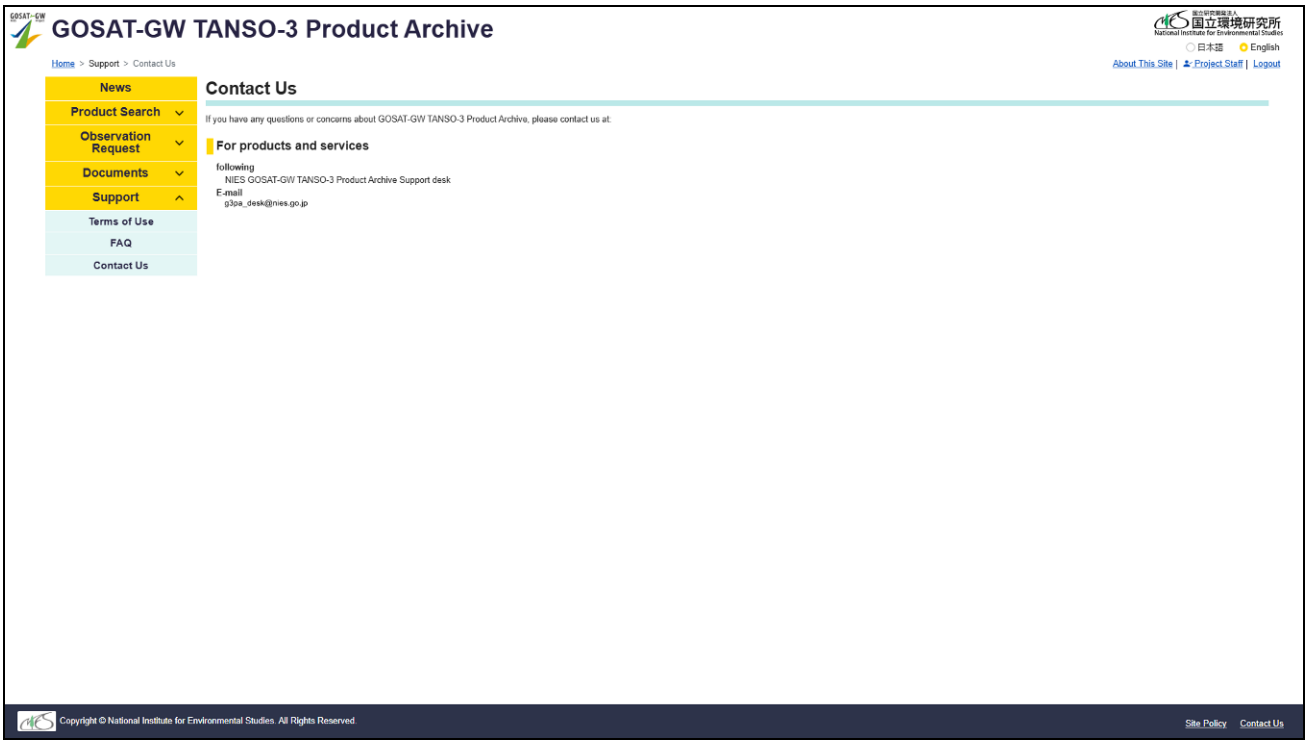


Figure 2-20 [Contact Us] Screen

- [Site Policy]: Displays the site policy for this service.

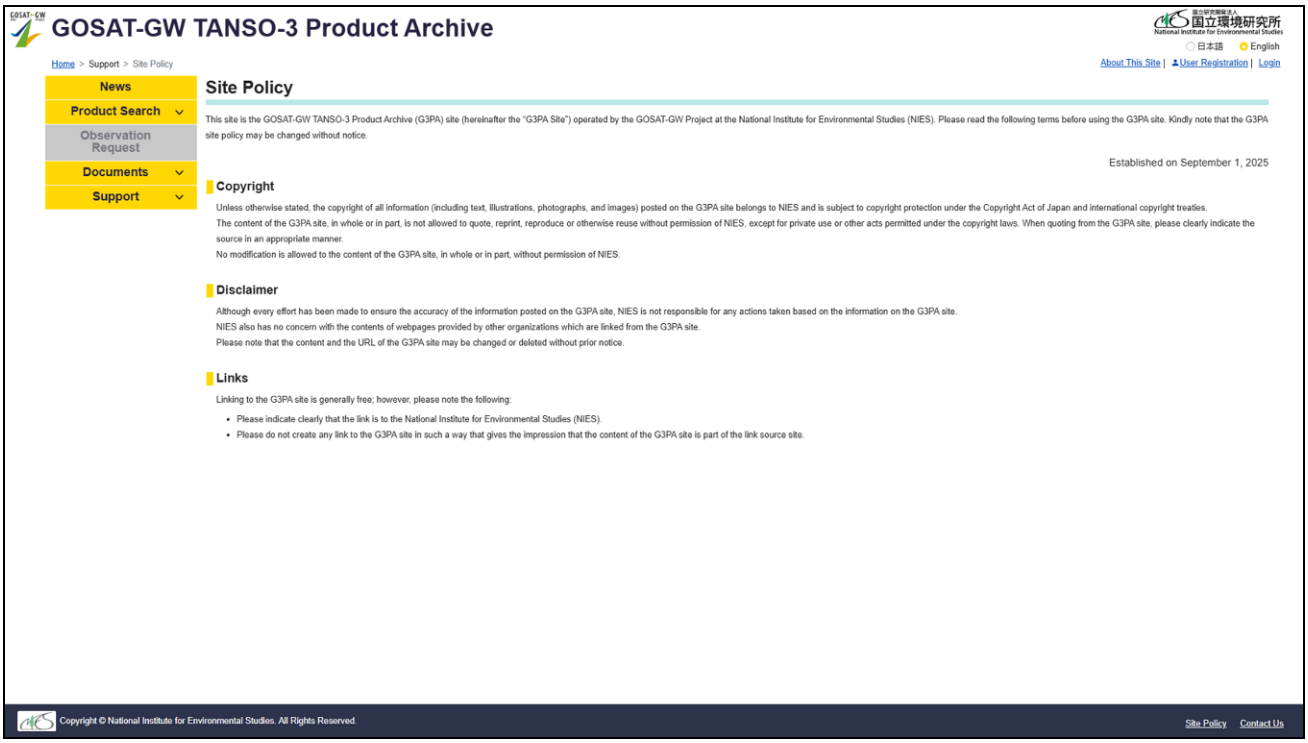


Figure 2-21 [Site Policy] Screen

- [About This Site]: Displays information about this service and site.

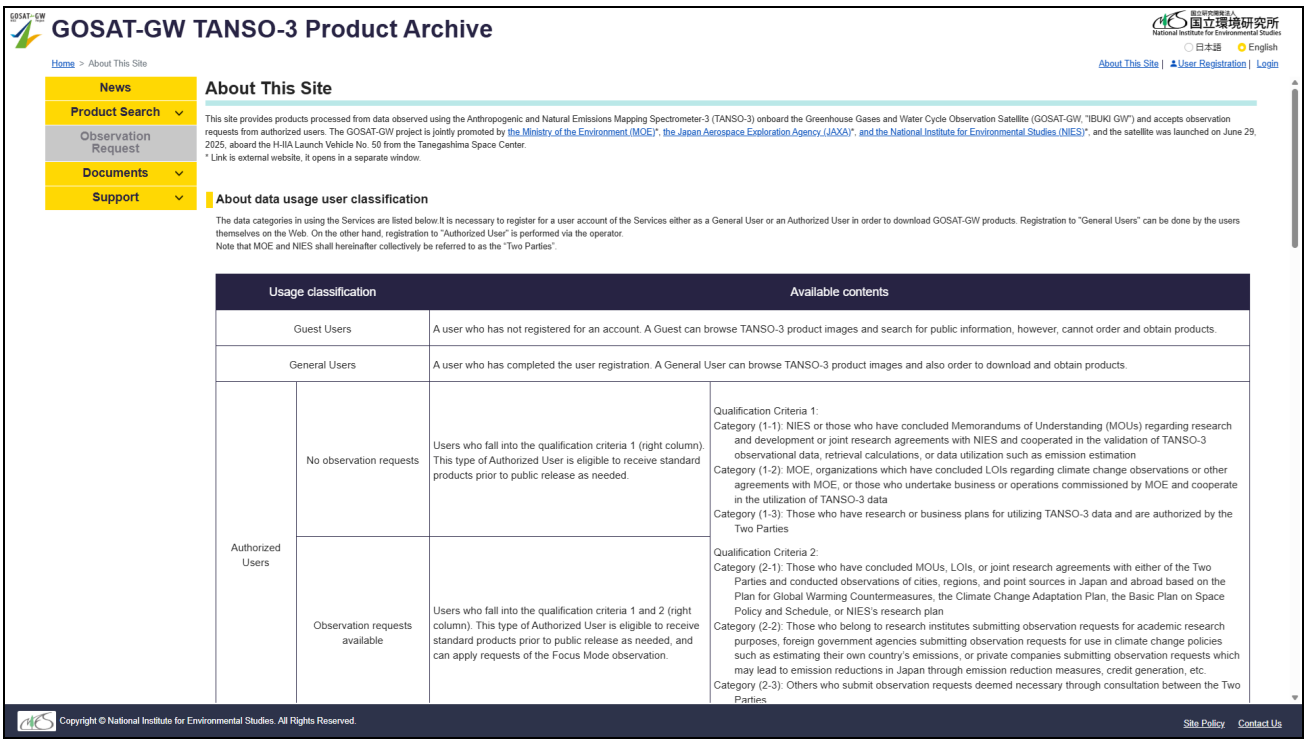


Figure 2-22 [About This Site] Screen

3. User Registration (General User) <Target: Guest Users>

This chapter explains the procedure for registering as a general user.

To acquire the product, user registration is necessary. There are two types of user categories available for acquiring the product: "General User" and "Authorized User". In this service, "Authorized Users" refers to the principal individuals who satisfy the qualification criteria described in Section 1.3.1. For user registration (authorized users), please see Chapter 6.

(1) The process from guest user to general user is as follows:

[Home] Screen [Section 3.1]
↓ ・Click the [User Registration] button
Review of User Terms and Conditions [Section 3.1.1]
↓ ・Click the [Agree] button
General User Registration Application [Section 3.1.2]
↓ ・Click the [Confirm] button
Reception of Registration Confirmation E-mail [Section 3.1.3]
↓ ・Access the URL mentioned in the registration confirmation e-mail
Completion of General User Registration [Section 3.1.3]

3.1. From Guest User to General User Registration Application

This section explains the procedure for registering as a general user.

Access the service's URL (https://product.gosat-gw.nies.go.jp/home/) in your browser.

Figure 3-1 [Home] Screen

(1) [User Registration] Button

You will be redirected to the [Terms of Use] screen.

3.1.1. Review of User Terms and Conditions

If you agree with the contents of the user terms and conditions, click the [Agree] button.

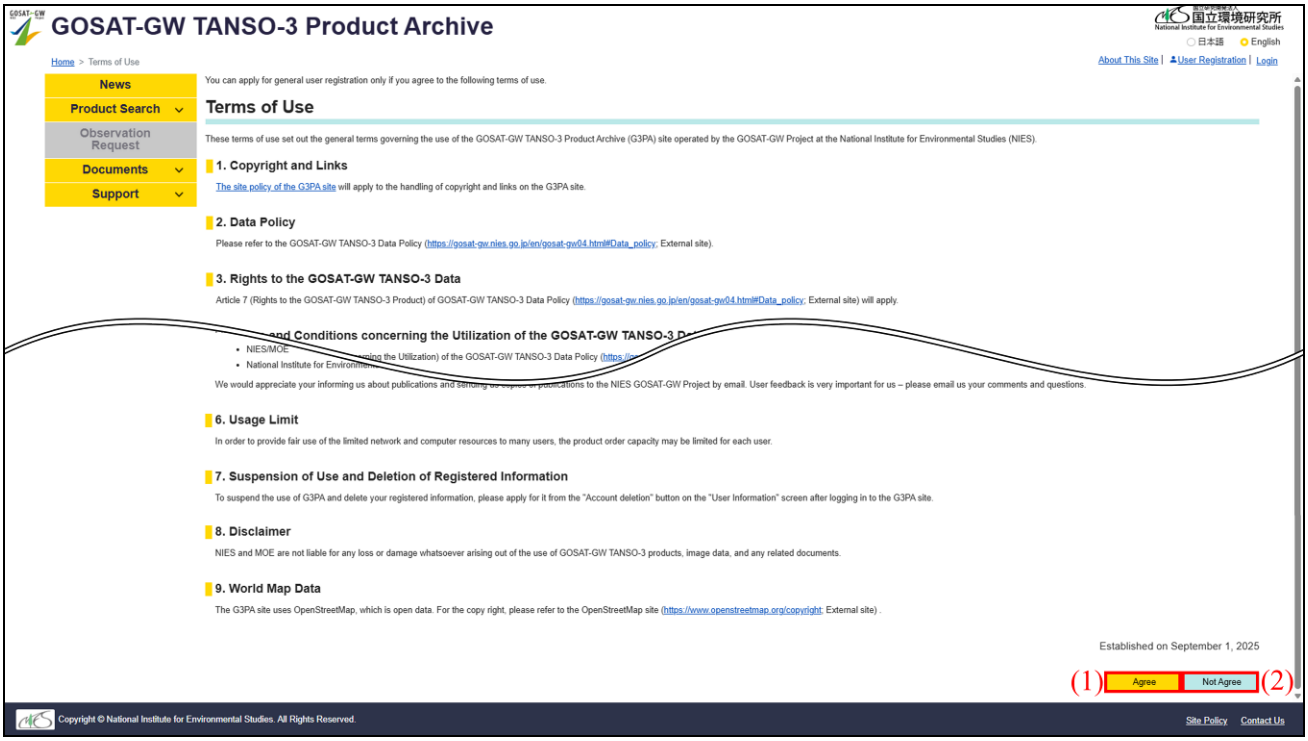


Figure 3-2 [Terms of Use] Screen

(1) [Agree] Button

Displays the [General User Registration Application] screen.

(2) [Not Agree] Button

Redirects to the [Home] screen.

3.1.2. General User Registration Application

3.1.2.1. Input of User Information

Enter your user information and click the [Confirm] button.

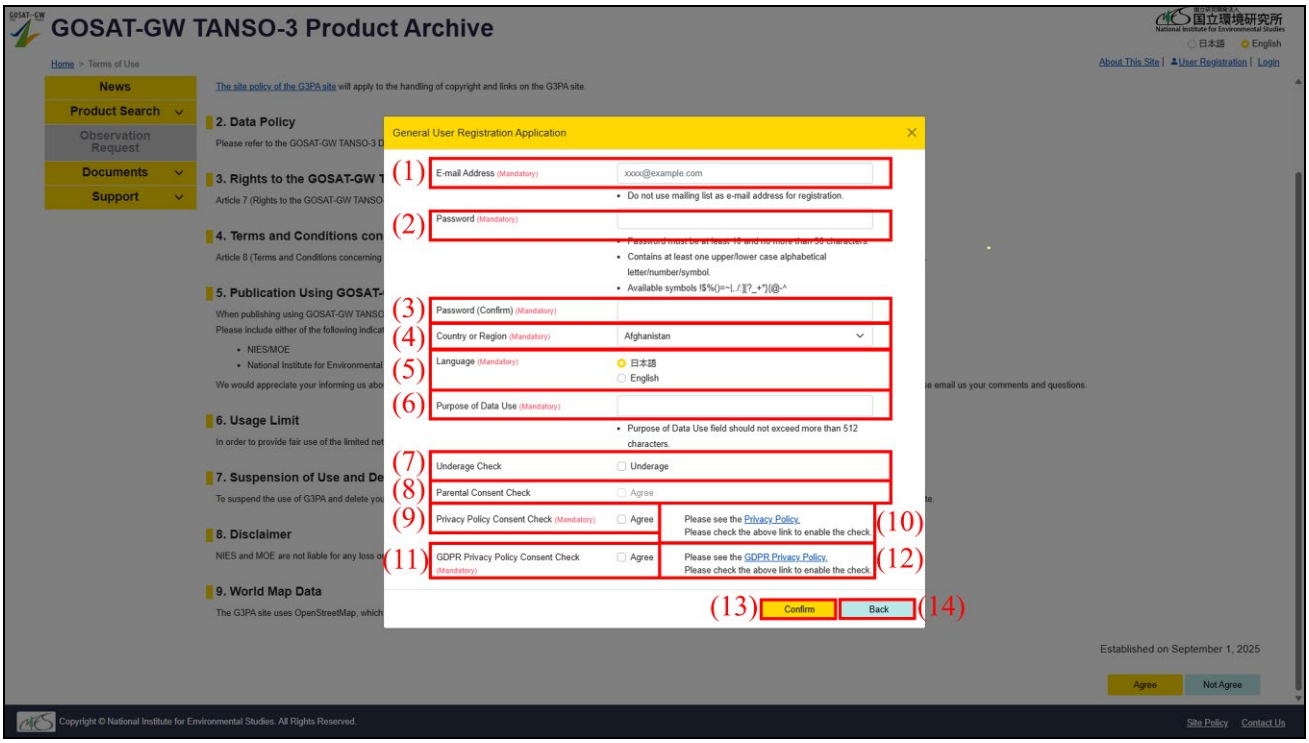


Figure 3-3 [General User Registration Application] Screen

(1) [E-mail Address]

Enter your e-mail address within 256 characters.

Do not use a mailing list for the e-mail address you register.

(2) [Password]

Enter your password. The conditions for setting a password are as follows:

- Password must be at least 10 and no more than 30 characters.
- Contains at least one upper/lower case alphabetical letter/number/symbol.
- Available symbols !$%()=~|,./:][?_+*}{@-^

Avoid using the same password as other internet services.

(3) [Password (confirm)]

Re-enter your password for confirmation.

(4) [Country or Region]

Select your country or region.

(5) [Language]

Choose between Japanese or English. This will be used for e-mail notifications and the language displayed after login.

(6) [Purpose of Data Use]

Enter the purpose of data use within 512 characters.

(7) [Underage Check]

If you are an underage, check this box.

(8) [Parental Consent Check]

This becomes available if the underage check is marked. Underages must obtain parental consent.

Notes:

Please refer to the privacy policy outlined in Section 1.1 for definitions of underages and parental guardians.

(9) [Privacy Policy Consent Check]

You can check this after reviewing the contents on the [Privacy Policy] screen, which you can navigate to from the [Privacy Policy] link.

(10) [Privacy Policy] Link

Opens the [Privacy Policy] screen in a separate browser tab.

(11) [GDPR Privacy Policy Consent Check]

You can check this after reviewing the contents on the [GDPR Privacy Policy] screen, which you can navigate to from the [GDPR Privacy Policy] link.

(12) [GDPR Privacy Policy] Link

Opens the [GDPR Privacy Policy] screen in a separate browser tab.

(13) [Confirm] Button

Displays the [General User Registration Application Confirm] screen.

(14) [Back] Button

Cancels the general user registration application and closes the [General User Registration Application] screen.

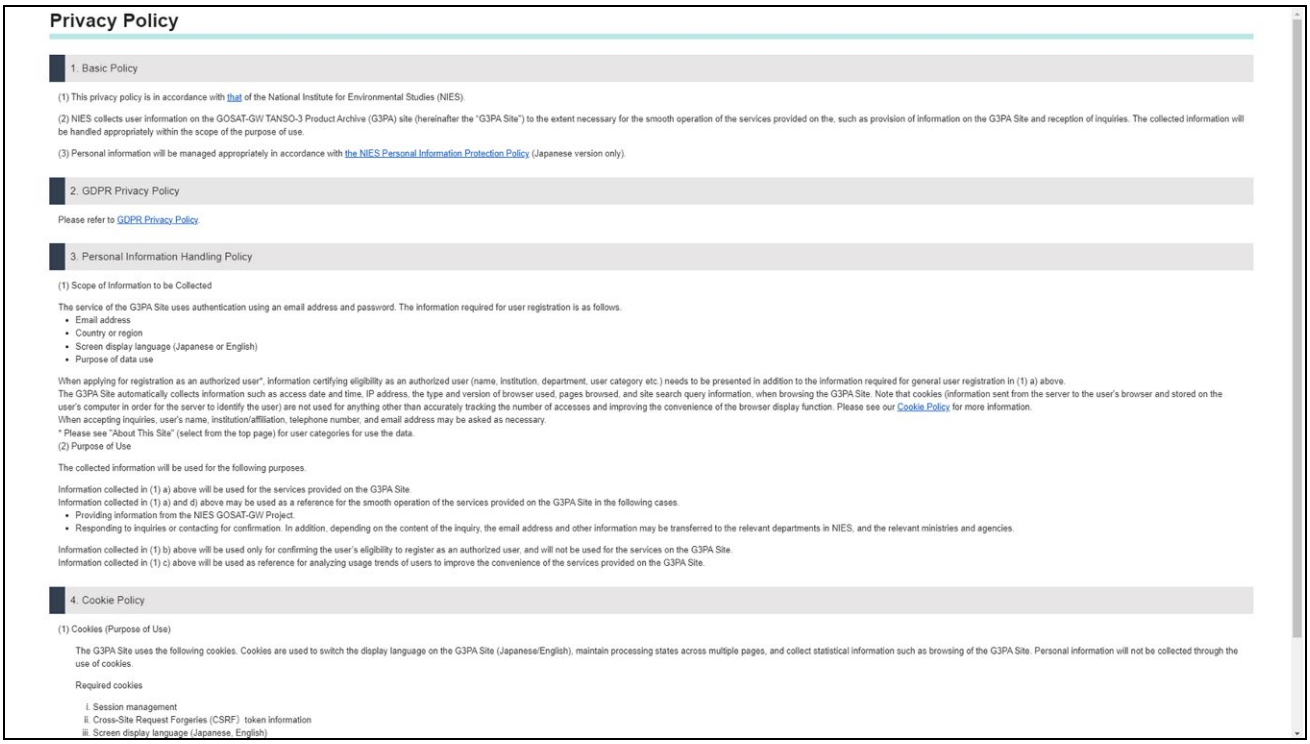


Figure 3-4 [Privacy Policy] Screen 1

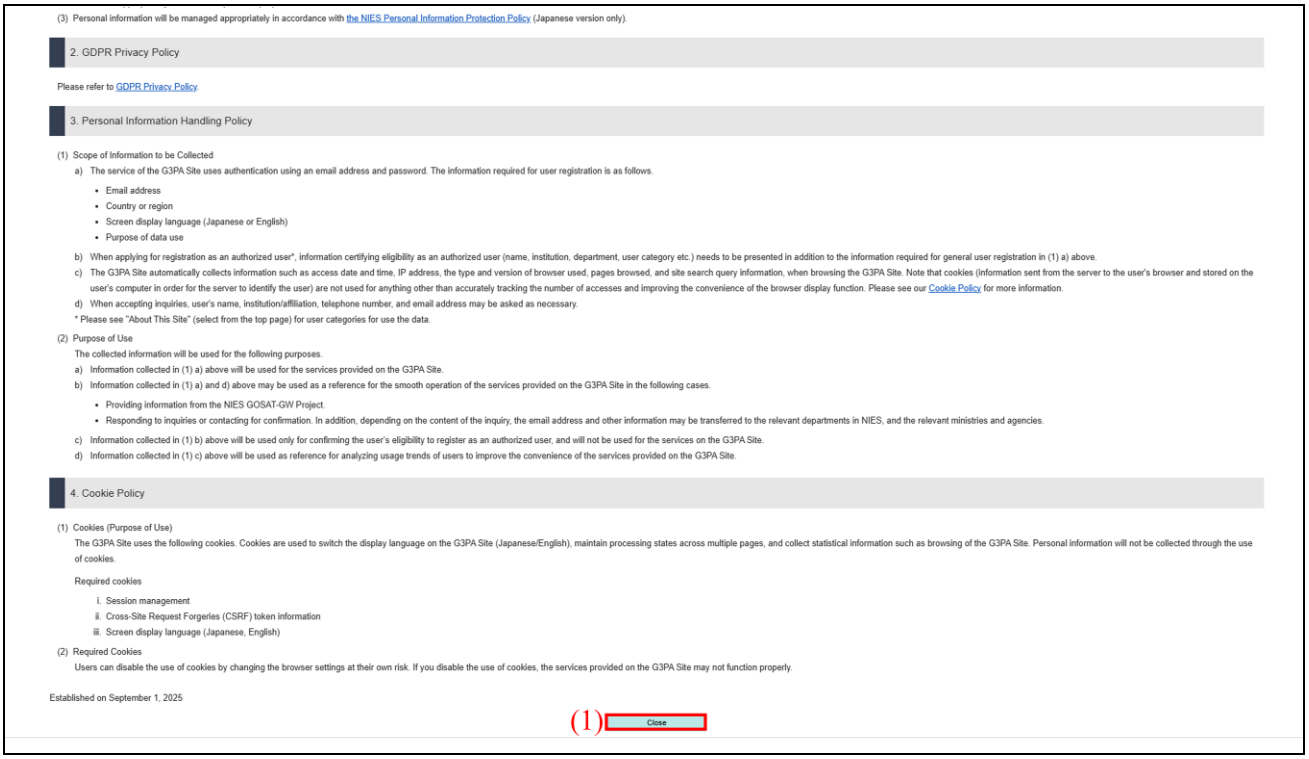
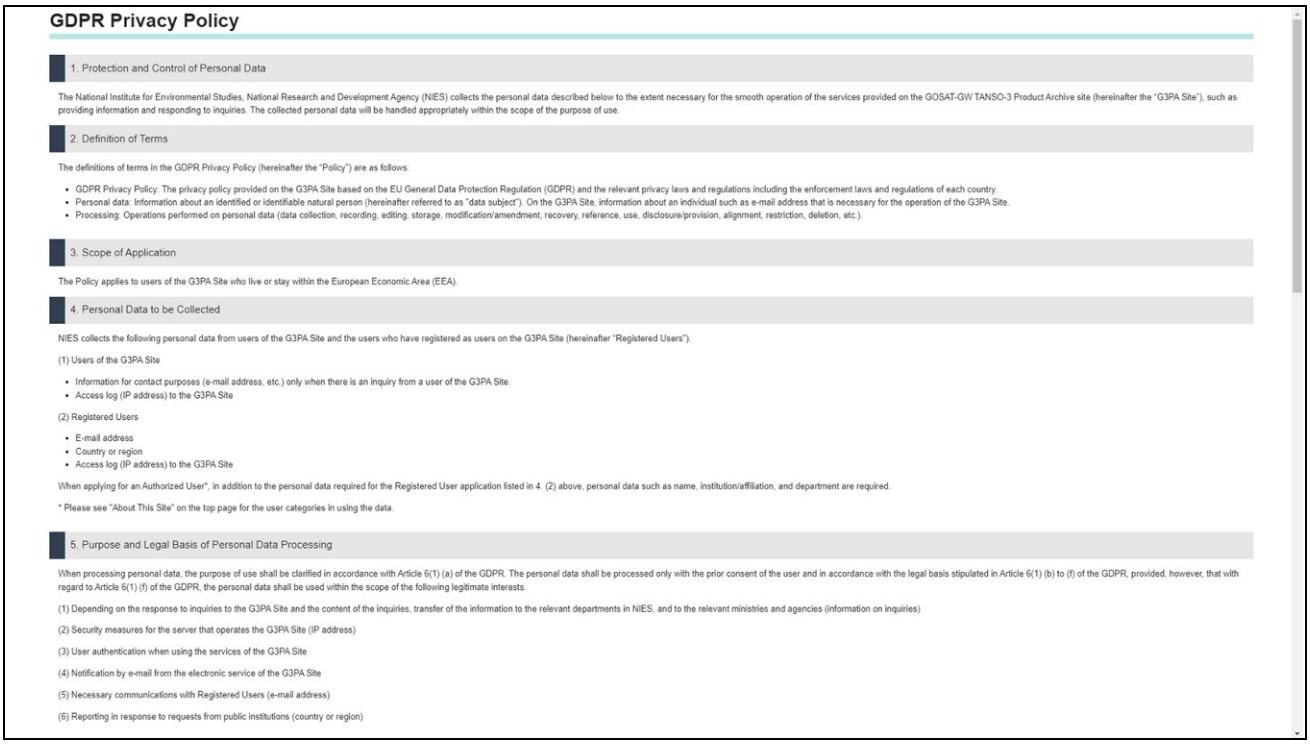


Figure 3-5 [Privacy Policy] Screen 2

(1) [Close] Button

Closes the browser tab that has the [Privacy Policy] screen open.



GDPR Privacy Policy

1. Protection and Control of Personal Data

The National Institute for Environmental Studies, National Research and Development Agency (NIES) collects the personal data described below to the extent necessary for the smooth operation of the services provided on the GOSAT-GW TANSO-3 Product Archive site (hereinafter the "G3PA Site"), such as providing information and responding to inquiries. The collected personal data will be handled appropriately within the scope of the purpose of use.

2. Definition of Terms

The definitions of terms in the GDPR Privacy Policy (hereinafter the "Policy") are as follows:

- GDPR Privacy Policy: The privacy policy provided on the G3PA Site based on the EU General Data Protection Regulation (GDPR) and the relevant privacy laws and regulations including the enforcement laws and regulations of each country.
- Personal data: Information about an identified or identifiable natural person (hereinafter referred to as "data subject"). On the G3PA Site, information about an individual such as e-mail address that is necessary for the operation of the G3PA Site.
- Processing: Operations performed on personal data (data collection, recording, editing, storage, modification/amendment, recovery, reference, use, disclosure/provision, alignment, restriction, deletion, etc.).

3. Scope of Application

The Policy applies to users of the G3PA Site who live or stay within the European Economic Area (EEA).

4. Personal Data to be Collected

NIES collects the following personal data from users of the G3PA Site and the users who have registered as users on the G3PA Site (hereinafter "Registered Users").

(1) Users of the G3PA Site

- Information for contact purposes (e-mail address, etc.) only when there is an inquiry from a user of the G3PA Site.
- Access log (IP address) to the G3PA Site

(2) Registered Users

- E-mail address
- Country or region
- Access log (IP address) to the G3PA Site

When applying for an Authorized User", in addition to the personal data required for the Registered User application listed in 4. (2) above, personal data such as name, institution/affiliation, and department are required.

* Please see "About This Site" on the top page for the user categories in using the data.

5. Purpose and Legal Basis of Personal Data Processing

When processing personal data, the purpose of use shall be clarified in accordance with Article 6(1) (a) of the GDPR. The personal data shall be processed only with the prior consent of the user and in accordance with the legal basis stipulated in Article 6(1) (b) to (f) of the GDPR, provided, however, that with regard to Article 6(1) (f) of the GDPR, the personal data shall be used within the scope of the following legitimate interests.

(1) Depending on the response to inquiries to the G3PA Site and the content of the inquiries, transfer of the information to the relevant departments in NIES, and to the relevant ministries and agencies (information on inquiries)

(2) Security measures for the server that operates the G3PA Site (IP address)

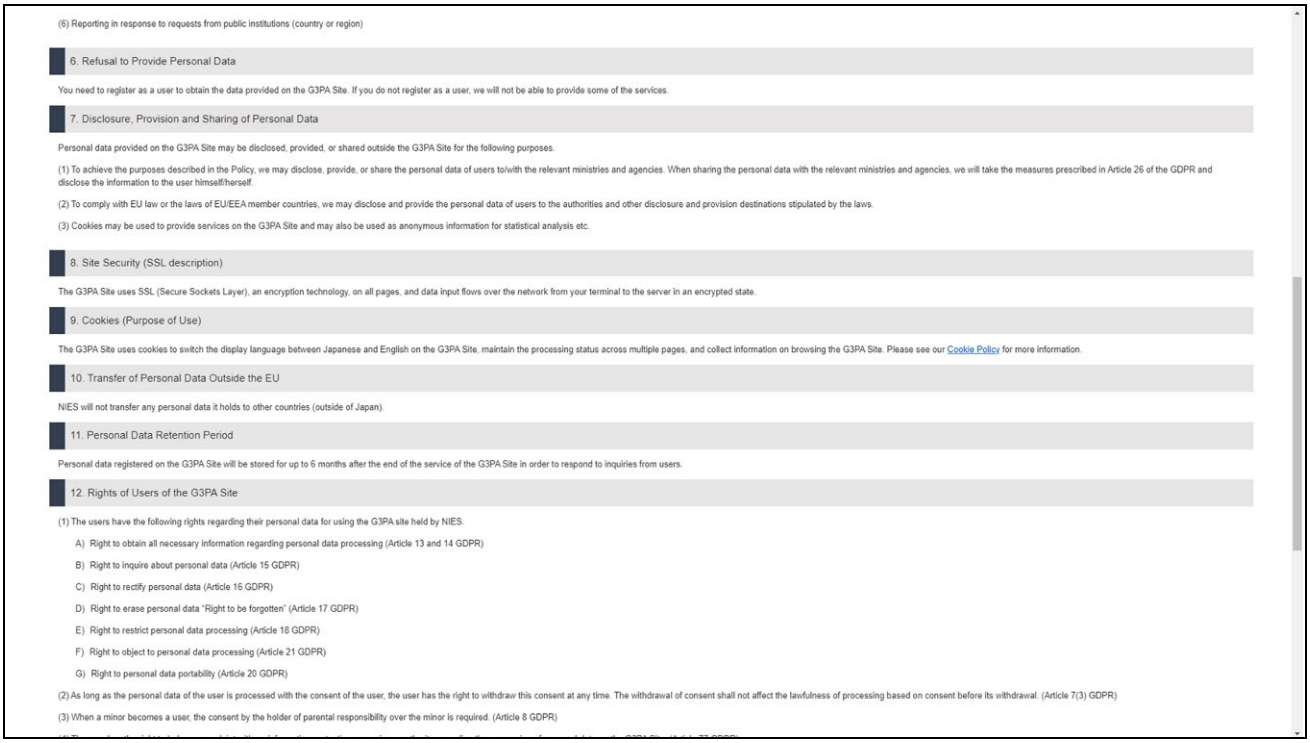
(3) User authentication when using the services of the G3PA Site

(4) Notification by e-mail from the electronic service of the G3PA Site

(5) Necessary communications with Registered Users (e-mail address)

(6) Reporting in response to requests from public institutions (country or region)

Figure 3-6 [GDPR Privacy Policy] Screen 1



(6) Reporting in response to requests from public institutions (country or region)

6. Refusal to Provide Personal Data

You need to register as a user to obtain the data provided on the G3PA Site. If you do not register as a user, we will not be able to provide some of the services.

7. Disclosure, Provision and Sharing of Personal Data

Personal data provided on the G3PA Site may be disclosed, provided, or shared outside the G3PA Site for the following purposes.

(1) To achieve the purposes described in the Policy, we may disclose, provide, or share the personal data of users to/with the relevant ministries and agencies. When sharing the personal data with the relevant ministries and agencies, we will take the measures prescribed in Article 26 of the GDPR and disclose the information to the user himself/herself.

(2) To comply with EU law or the laws of EU/EEA member countries, we may disclose and provide the personal data of users to the authorities and other disclosure and provision destinations stipulated by the laws.

(3) Cookies may be used to provide services on the G3PA Site and may also be used as anonymous information for statistical analysis etc.

8. Site Security (SSL description)

The G3PA Site uses SSL (Secure Sockets Layer), an encryption technology, on all pages, and data input flows over the network from your terminal to the server in an encrypted state.

9. Cookies (Purpose of Use)

The G3PA Site uses cookies to switch the display language between Japanese and English on the G3PA Site, maintain the processing status across multiple pages, and collect information on browsing the G3PA Site. Please see our Cookie Policy for more information.

10. Transfer of Personal Data Outside the EU

NIES will not transfer any personal data it holds to other countries (outside of Japan).

11. Personal Data Retention Period

Personal data registered on the G3PA Site will be stored for up to 6 months after the end of the service of the G3PA Site in order to respond to inquiries from users.

12. Rights of Users of the G3PA Site

(1) The users have the following rights regarding their personal data for using the G3PA site held by NIES.

A) Right to obtain all necessary information regarding personal data processing (Article 13 and 14 GDPR)

B) Right to inquire about personal data (Article 15 GDPR)

C) Right to rectify personal data (Article 16 GDPR)

D) Right to erase personal data "Right to be forgotten" (Article 17 GDPR)

E) Right to restrict personal data processing (Article 18 GDPR)

F) Right to object to personal data processing (Article 21 GDPR)

G) Right to personal data portability (Article 20 GDPR)

(2) As long as the personal data of the user is processed with the consent of the user, the user has the right to withdraw this consent at any time. The withdrawal of consent shall not affect the lawfulness of processing based on consent before its withdrawal. (Article 7(3) GDPR)

(3) When a minor becomes a user, the consent by the holder of parental responsibility over the minor is required. (Article 8 GDPR)

Figure 3-7 [GDPR Privacy Policy] Screen 2

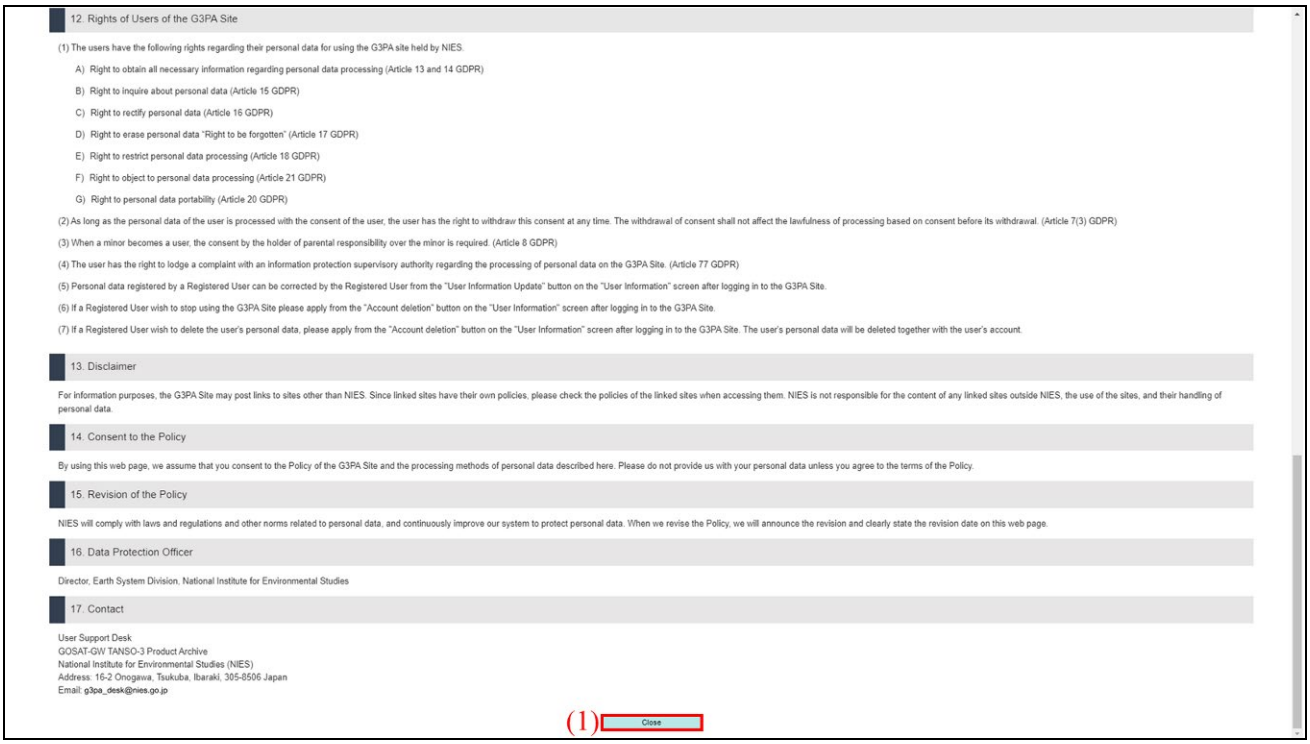


Figure 3-8 [GDPR Privacy Policy] Screen 3

(1) [Close] Button

Closes the browser tab that has the [GDPR Privacy Policy] screen open.

3.1.2.2. Confirmation and Application of Input Information

Confirm the user information you entered and click the [Apply] button.

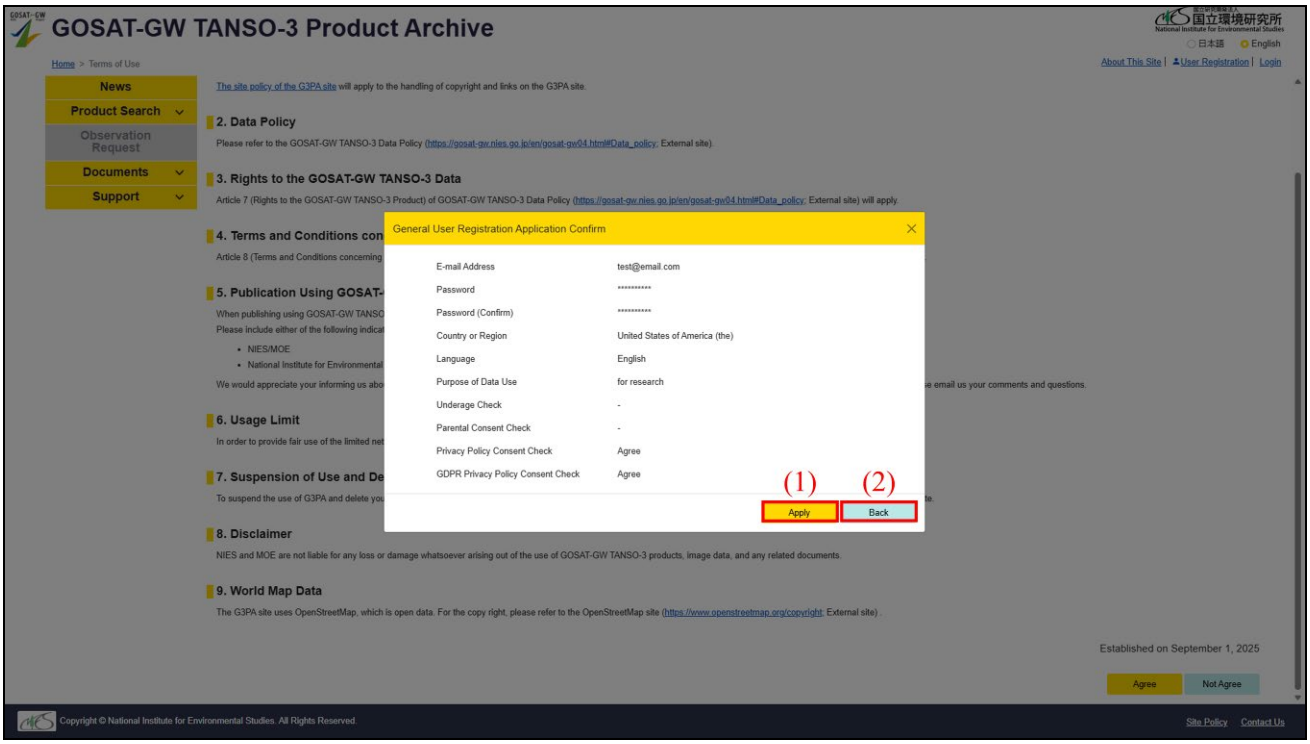


Figure 3-9 [General User Registration Application Confirm] Screen

(1) [Apply] Button

Proceeds with the application for general user registration and displays the [General User Registration Application Completed] screen.

(2) [Back] Button

Displays the [General User Registration Application] screen.

Notes:

If the following error message is displayed, the session has expired due to the lapse of over three hours since the Terms of Use screen was shown. Please reload [Terms of Use] screen and restart the user registration process from Section 3.1.1.

error message: Your session has expired. After reloading screen, please reapply from the first step of user registration.

3.1.2.3. Completion of General User Registration Application

Confirm the contents displayed on the [General User Registration Application Completed] screen and click the [OK] button.

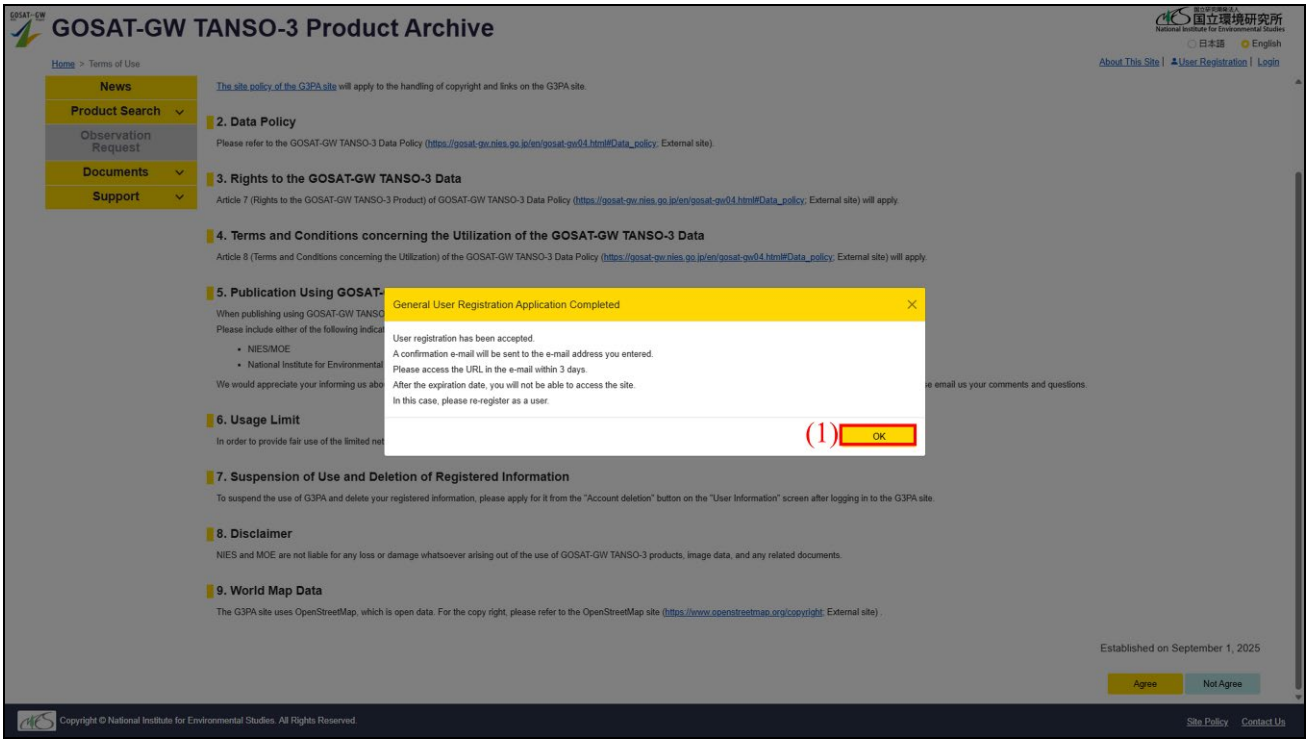


Figure 3-10 [General User Registration Application Completed] Screen

(1) [OK] Button

Closes the [General User Registration Application Completed] screen and redirects to the [Home] screen.

3.1.3. Completion of General User Registration

After applying for general user registration, a registration confirmation e-mail will be sent to the e-mail address you entered. Registration is completed by accessing the URL mentioned in the e-mail.

Notes:

The URL provided in the registration confirmation e-mail is valid for 3 days (*).

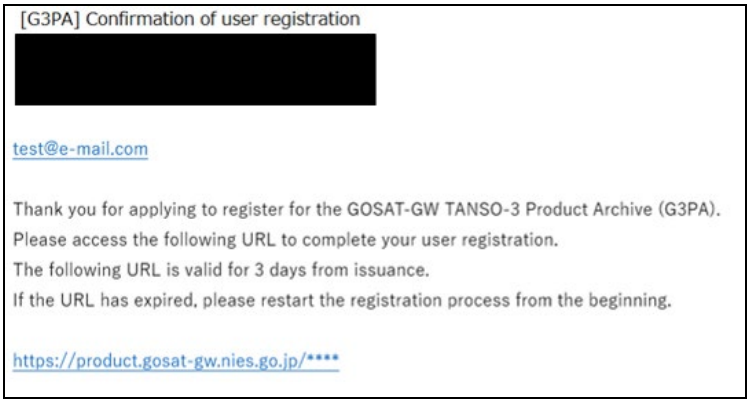
If the validity period has expired, please re-register starting from the procedure in Section 3.1.

(*) The validity period may change depending on system settings. Please adhere to the validity period stated on the [General User Registration Application Completion] screen and in the registration confirmation e-mail.

Restrictions:

You cannot apply for user registration with the same e-mail address within the validity period of the URL provided in the registration confirmation e-mail.

If you lose the registration confirmation e-mail before completing the registration, please restart the user registration process from Section 3.1 after the expiration date.


[G3PA] Confirmation of user registration

[redacted]

test@e-mail.com

Thank you for applying to register for the GOSAT-GW TANSO-3 Product Archive (G3PA).
Please access the following URL to complete your user registration.
The following URL is valid for 3 days from issuance.
If the URL has expired, please restart the registration process from the beginning.

https://product.gosat-gw.nies.go.jp/****

Figure 3-11 Registration Confirmation E-mail

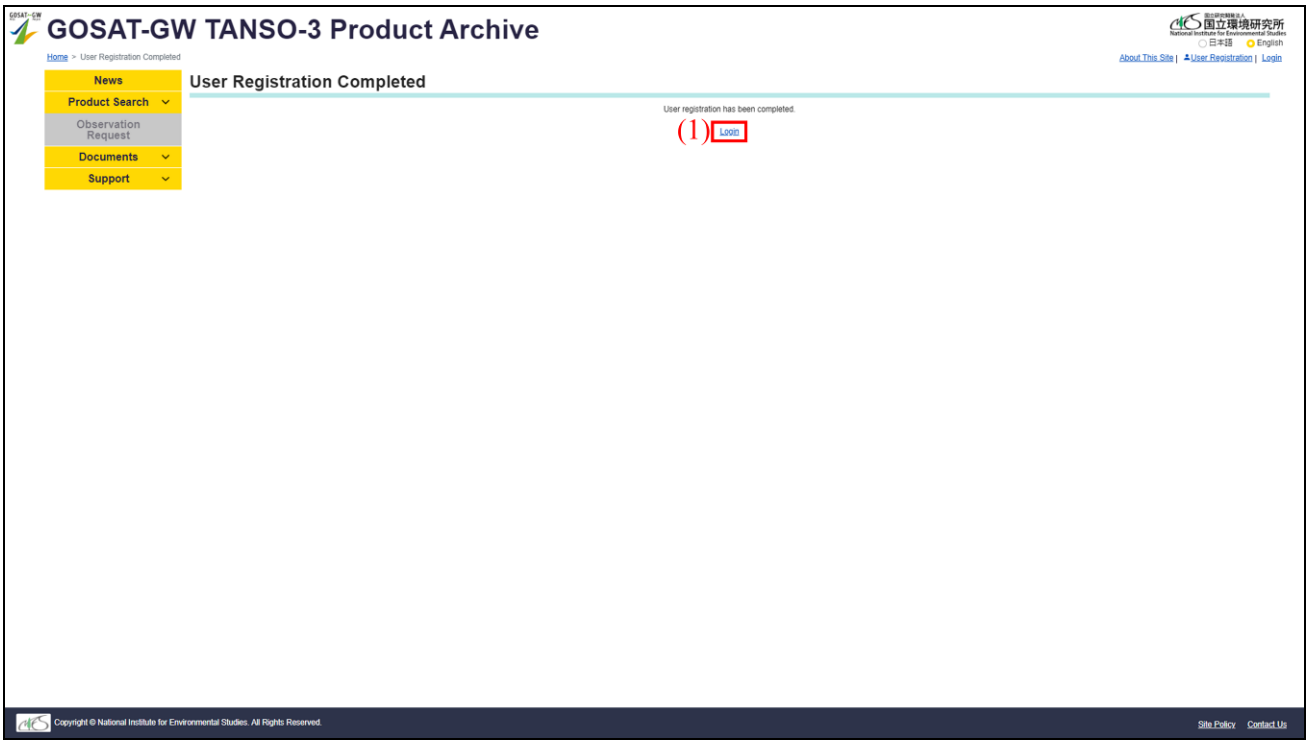


Figure 3-12 [User Registration Completed] Screen

(1) [Login] Link

Redirects to the [Login] screen. Please refer to Chapter 4 for the login procedure.

Once the general user registration is complete, a registration completion e-mail will be sent to the e-mail address you entered.

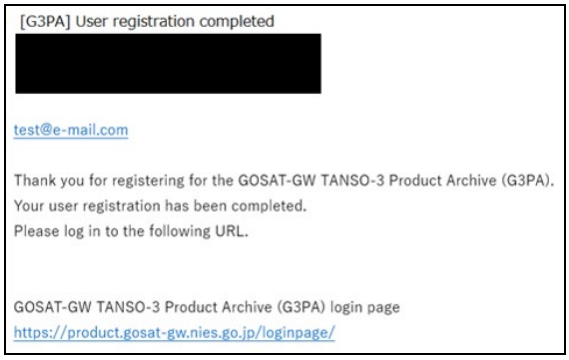


Figure 3.1-13 Registration Completion E-mail

4. Login and Logout <Applicable to: General Users, Authorized Users>

This chapter explains the procedures for login, logout, password change, user information update, account deletion, and account unlock.

(1) The login process is as follows:

[Home] screen [Section 4.1]

↓ ・Click the [User login] button or [Login] link

[Login] screen [Section 4.1.1]

↓ ・Click the [Login] button

[Home] screen [Section 2.1]

(2) The process when the privacy policy is revised is as follows. The same applies when the GDPR privacy policy is revised.

[Home] screen [Section 4.1]

↓ ・Click the [User login] button or [Login] link

[Login] screen [Section 4.1.1]

↓ ・Click the [Login] button

[Privacy Policy Consent Confirmation] screen [Section 4.1.2]

↓ ・Click the [Agree] button

[Home] screen [Section 2.1]

↓ ・Click the [Not Agree] button

[Login] screen [Section 4.1.1]

(3) The logout process is as follows. It can be performed after logging in.

[Home] screen [Section 4.2]

↓ ・Click the [Logout] button or [Logout] link

[Home] screen [Section 4.1]

(4) The process to reissue a password is as follows:

[Home] screen [Section 4.1]

↓ ・Click the [User login] button or [Login] link

[Login] screen [Section 4.3.1]

↓ ・Click the [Reissue of password] link

[Password Reissue Request] screen [Section 4.3.1.1]

↓ ・Click the [Application] button

[Password Reissue Request Completed] screen [Section 4.3.1.2]

↓ ・Access the URL in the password reissue request confirmation e-mail

[Password Reissue] screen [Section 4.3.1.3]

↓ ・Click the [Reissue] button

[Password Reissue Completed] screen [Section 4.3.1.4]

↓ ・Click the [OK] button

[Login] screen [Section 4.3.1]

(5) The process to change the password is as follows. It can be performed after logging in.

[Home] screen [Section 2.1]

↓ ・Click the [User Information] button or [General User] link or [Authorized User] link

[User Information] screen [Section 4.3.2]

↓ ・Click the [Password Change] button

[Password Change] screen [Section 4.3.2.1]

↓ ・Click the [Change] button

[Password Change Completion] screen [Section 4.3.2.2]

↓ ・Click the [OK] button

[User Information] screen [Section 4.3.2]

(6) The process to update user information is as follows. It can be performed after logging in.

[Home] screen [Section 2.1]

↓ ・Click the [User Information] button or [General User] link or [Authorized User] link

[User Information] screen [Section 4.4]

↓ ・Click the [User Information Update] button

[User Information Update] screen [Section 4.4.1]

↓ ・Click the [Save] button

[User Information Update Complete] screen [Section 4.4.3]

↓ ・Click the [OK] button

[User Information] screen [Section 4.4]

(7) The process to change the e-mail address is as follows. It can be performed after logging in.

[Home] screen [Section 2.1]

↓ ・Click the [User Information] button or [General User] link or [Authorized User] link

[User Information] screen [Section 4.5]

↓ ・Click the [E-mail Address Change Application] button

[E-mail Address Change Application] screen [Section 4.5.1]

↓ ・Click the [Application] button

[E-mail Address Change Application Completed] screen [Section 4.5.2]

↓ ・Access the URL in the e-mail address change request confirmation e-mail

[E-mail Address Change Completed] screen [Section 4.5.3]

↓ ・Click the [Login] link

[Login] screen [Section 4.1.1]

(8) The process to download user information is as follows. It can be performed after logging in.

[Home] screen [Section 2.1]

↓ ・Click the [User Information] button or [General User] link or [Authorized User] link

[User Information] screen [Section 4.6]

↓ ・Click the [CSV Download] button

[User Information] screen [Section 4.6]

(9) The process to delete an account is as follows. It can be performed after logging in.

[Home] screen [Section 2.1]

↓ ・Click the [User Information] button or [General User] link or [Authorized User] link

[User Information] screen [Section 4.7.2]

↓ ・Click the [Account Deletion Request] button

[User Information] screen [Section 4.7.2]

4.1. Login

This section describes the login procedure.

Access the URL of this service in your browser (https://product.gosat-gw.nies.go.jp/home/).

Figure 4-1 [Home] Screen

(1) [Login] Link

You will be redirected to the [Login] screen.

(2) [User login] Button

You will be redirected to the [Login] screen.

4.1.1. User Authentication

Enter your e-mail address and password, then click the [Login] button.

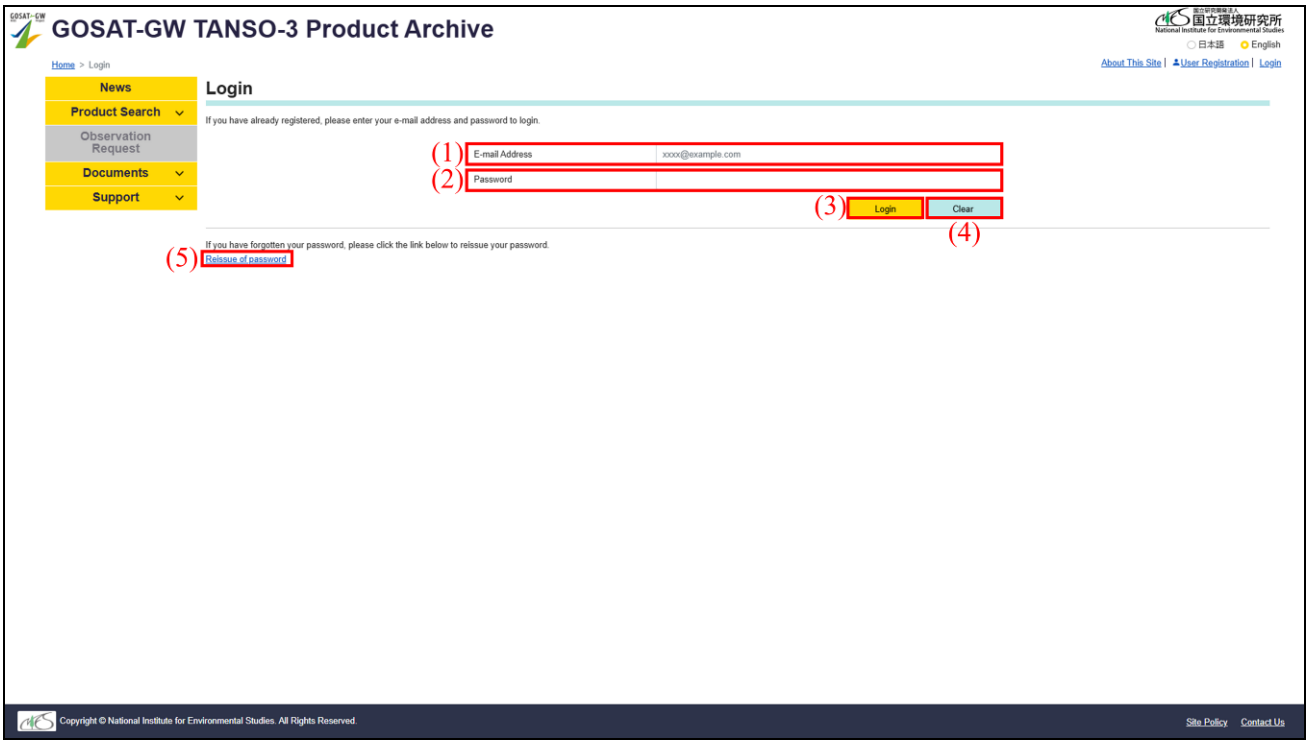


Figure 4-2 [Login] Screen

(1) [E-mail Address]

Enter your e-mail address.

(2) [Password]

Enter your password.

(3) [Login] Button

Authenticate the user and transition to the [Home] screen in a logged-in state.

(4) [Clear] Button

Clears the e-mail address and password.

(5) [Reissue of password] Link

Transitions to the [Password Reissue Request] screen.

For details about the [Password Reissue Request] screen, please refer to Section 4.3.1.

Notes:

If user authentication fails more than 10 times (*), the account will be locked. For details about account locking, please refer to Section 4.8.

(*) The maximum number of attempts may change depending on system settings.

4.1.2. Revision of Privacy Policy and GDPR Privacy Policy

When the Privacy Policy is revised, a [Privacy Policy Consent Confirmation] screen will be displayed at login. If you agree with the contents of the Privacy Policy, click the [Agree] button. The same applies when the GDPR Privacy Policy is revised.

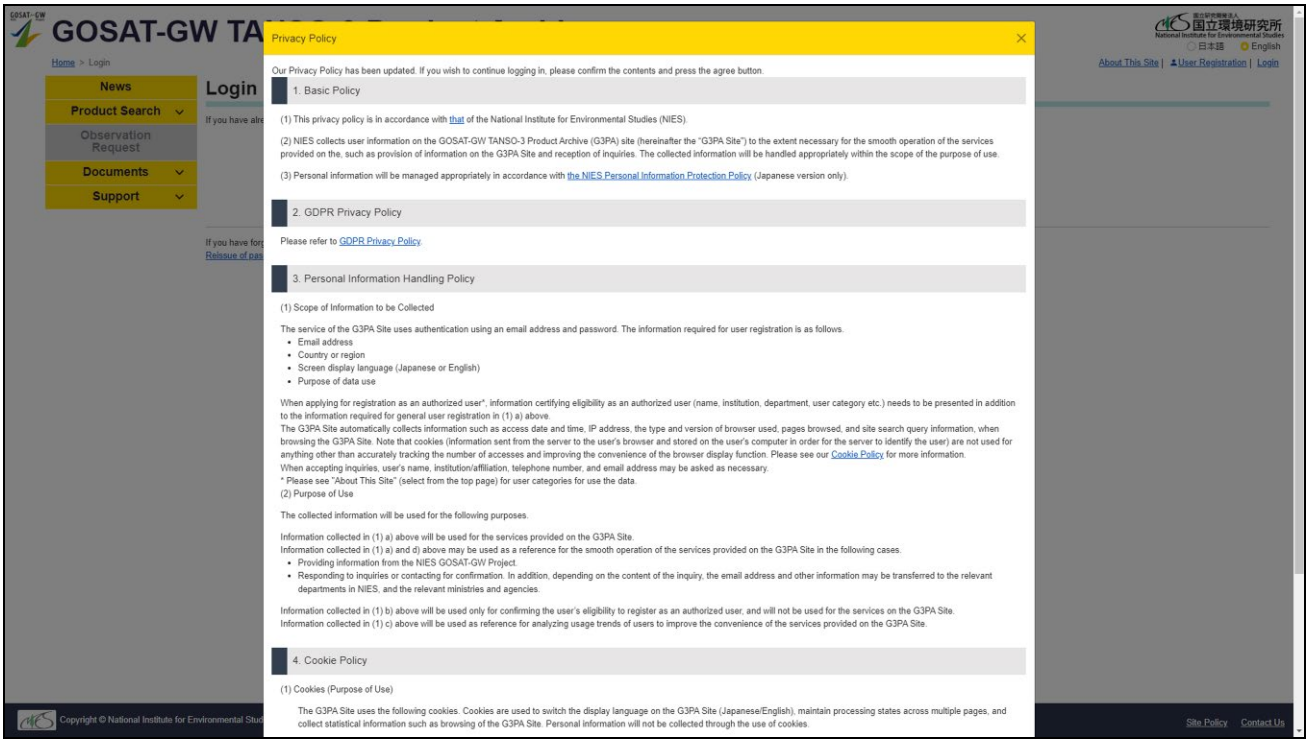


Figure 4-3 [Privacy Policy Consent Confirmation] Screen 1

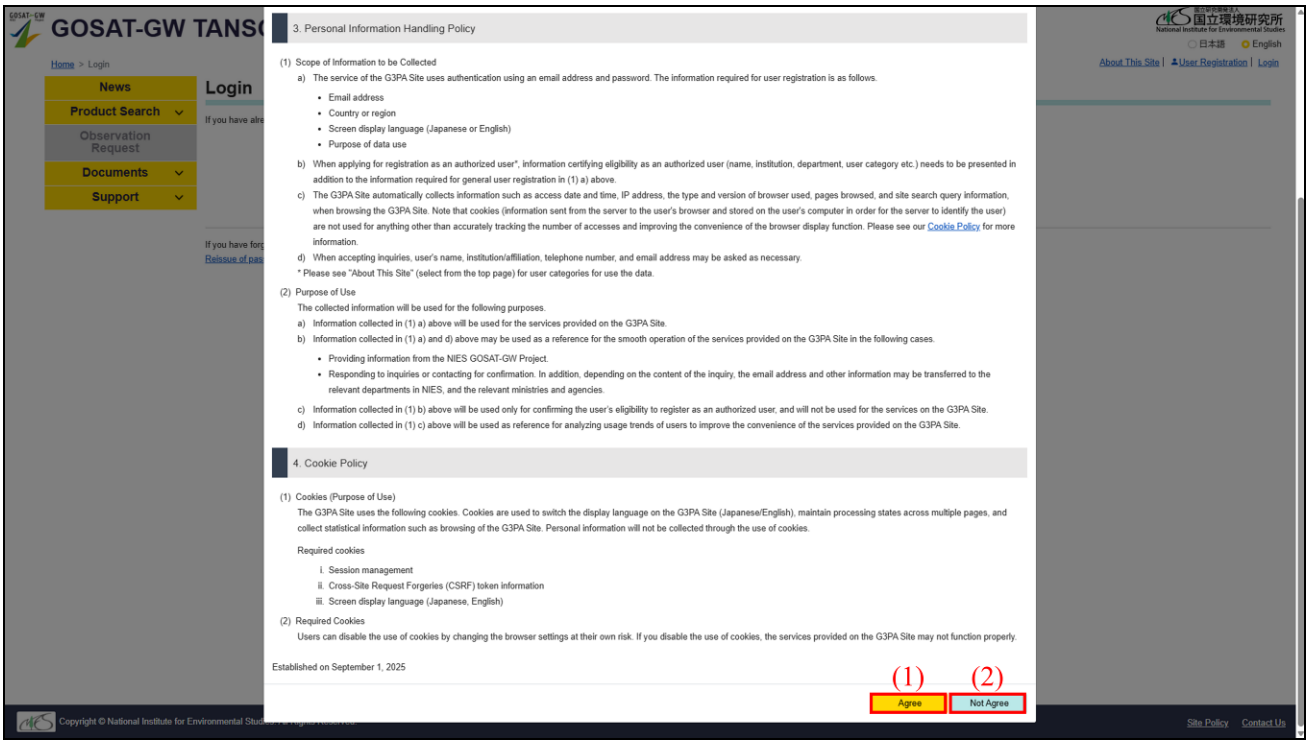


Figure 4-4 [Privacy Policy Consent Confirmation] Screen 2

(1) [Agree] Button

You will be redirected to the [Home] screen while logged in.

(2) [Not Agree] Button

The [Login] screen will be displayed.

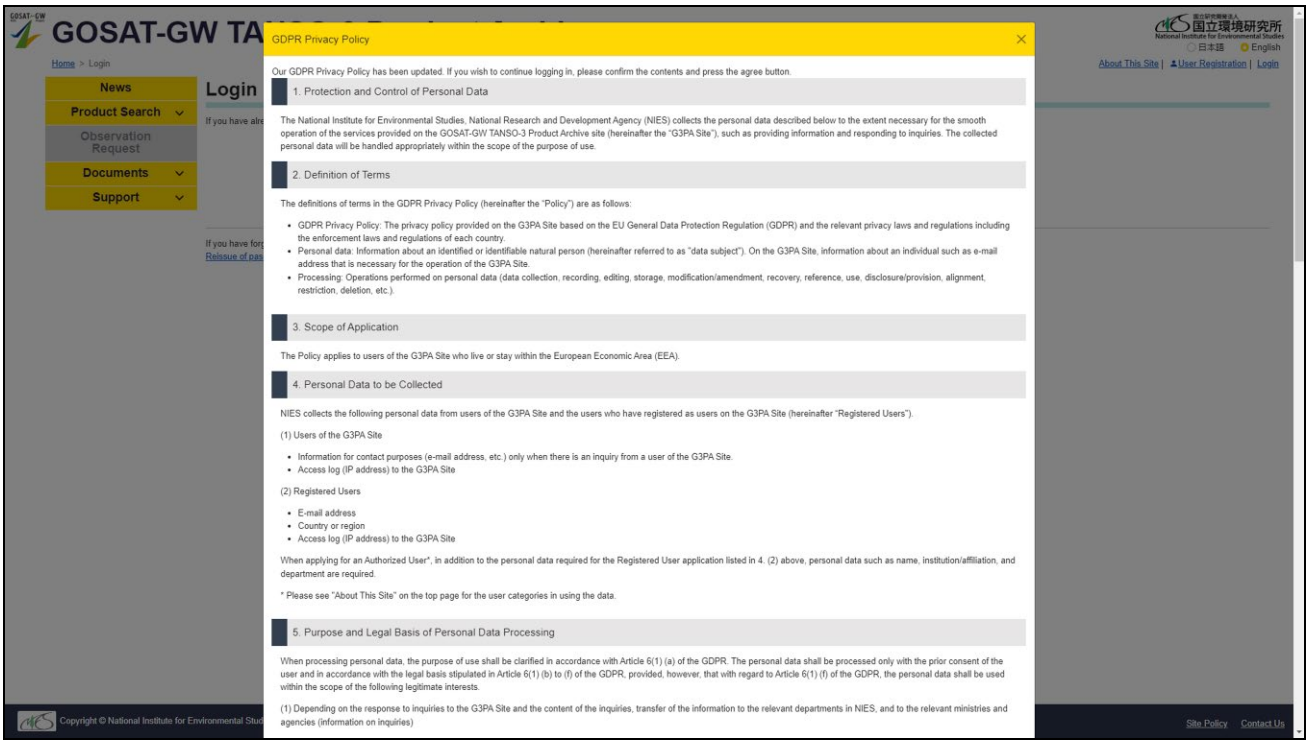


Figure 4-5 [GDPR Privacy Policy Consent Confirmation] Screen 1

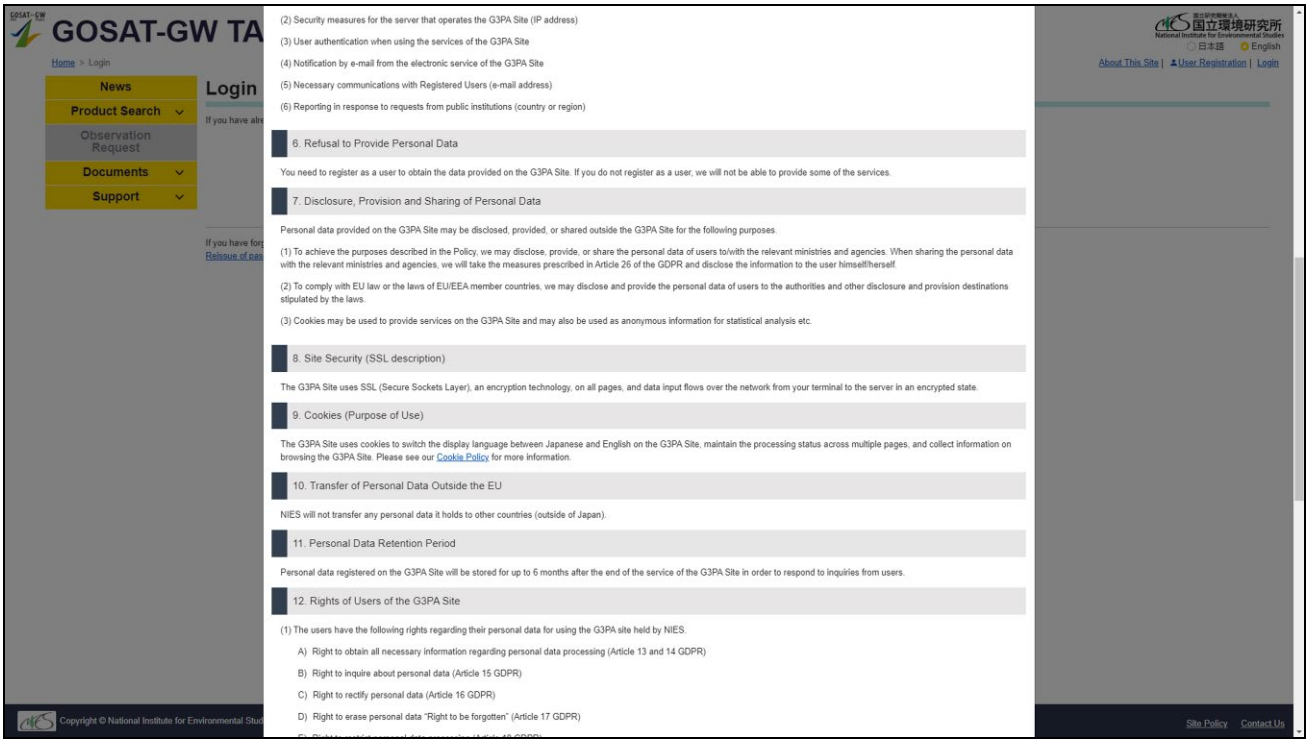


Figure 4-6 [GDPR Privacy Policy Consent Confirmation] Screen 2

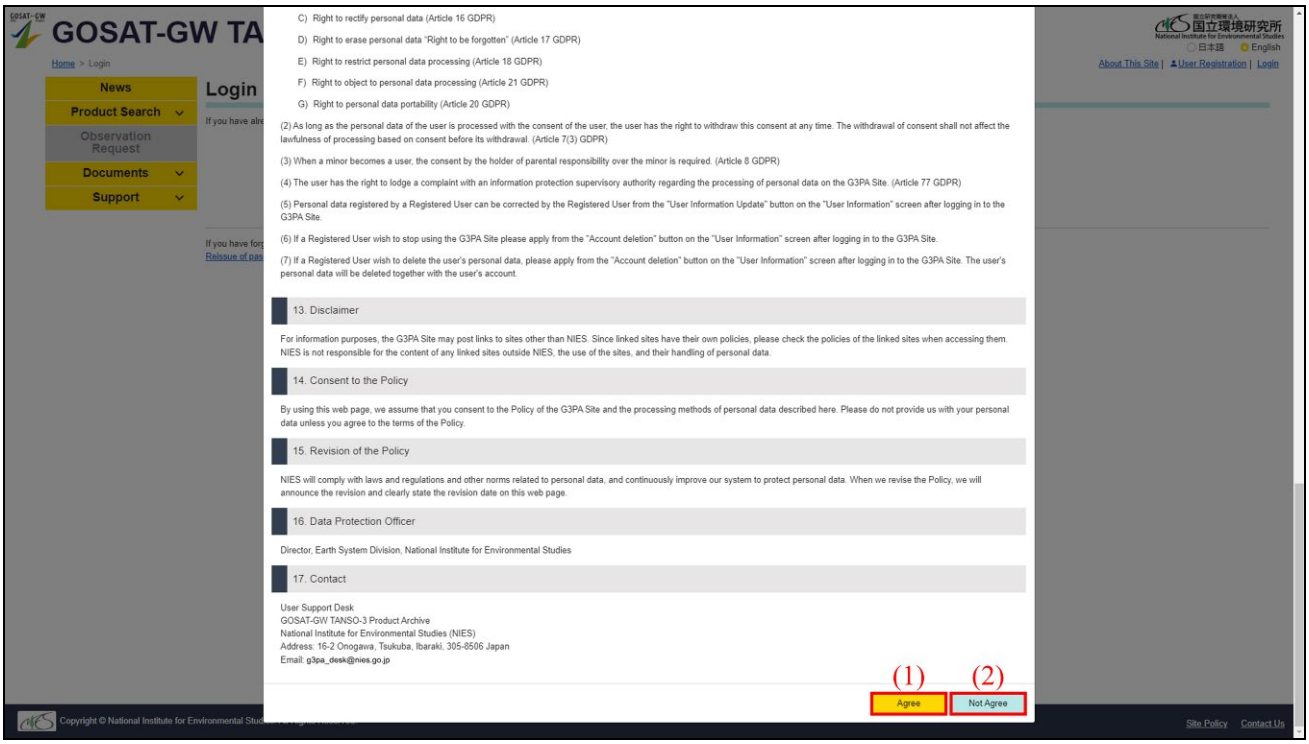


Figure 4-7 [GDPR Privacy Policy Consent Confirmation] Screen 3

(1) [Agree] Button

You will be redirected to the [Home] screen while logged in.

(2) [Not Agree] Button

The [Login] screen will be displayed.

Notes:

If you do not agree to the revisions of the Privacy Policy and the GDPR Privacy Policy, you will not be able to log in.

4.1.3. Double Login

If you attempt to log in again with an account that is already logged in, the following [Confirmation] dialog will be displayed. Clicking the [Yes] button will continue the login.

If you are logged in with a different browser than the one you just logged in with, you will be logged out.

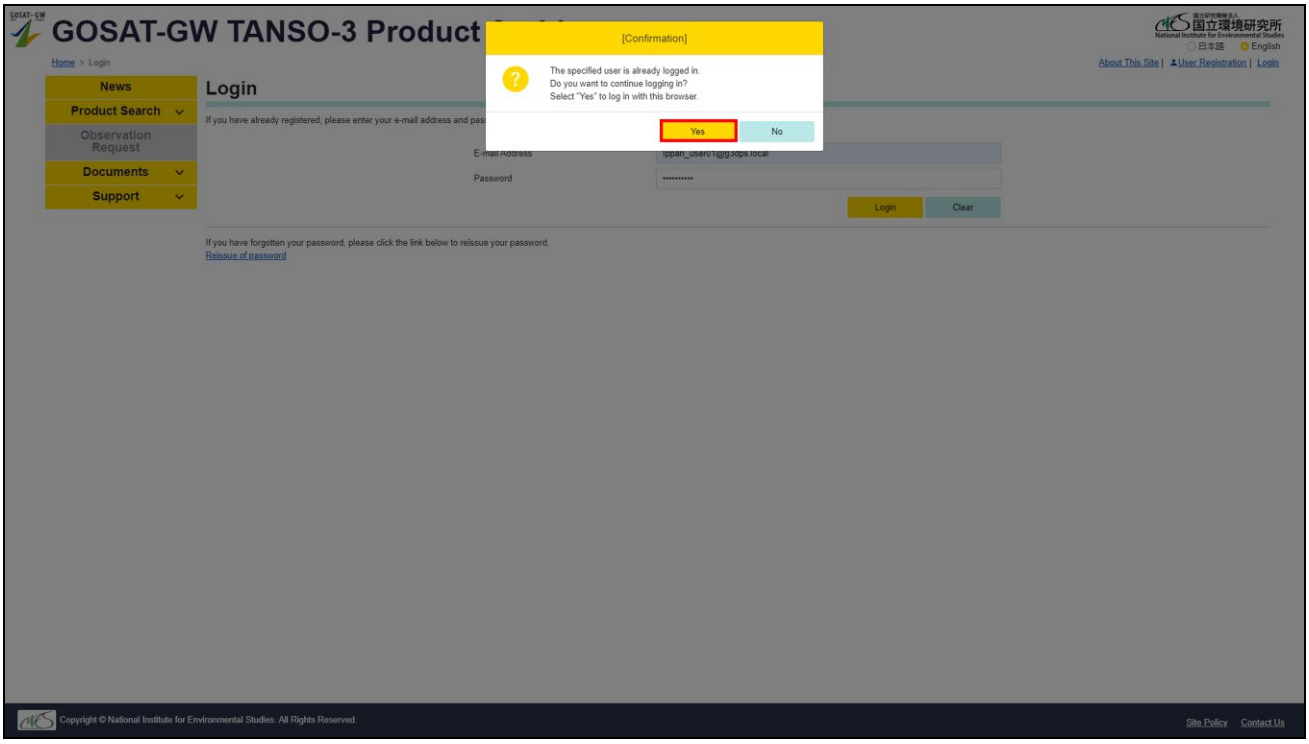


Figure 4-8 [Confirmation] Dialog for Double Login

4.2. Logout

This section describes the procedure for logging out.

By clicking the [Logout] link or the [Logout] button on the [Home] screen, a [Confirmation] dialog will be displayed.

Figure 4-9 [Home] Screen

(1) [Logout] Link

Displays the [Confirmation] dialog.

(2) [Logout] Button

Displays the [Confirmation] dialog.

[Confirmation] dialog will appear, click the [Yes] button.

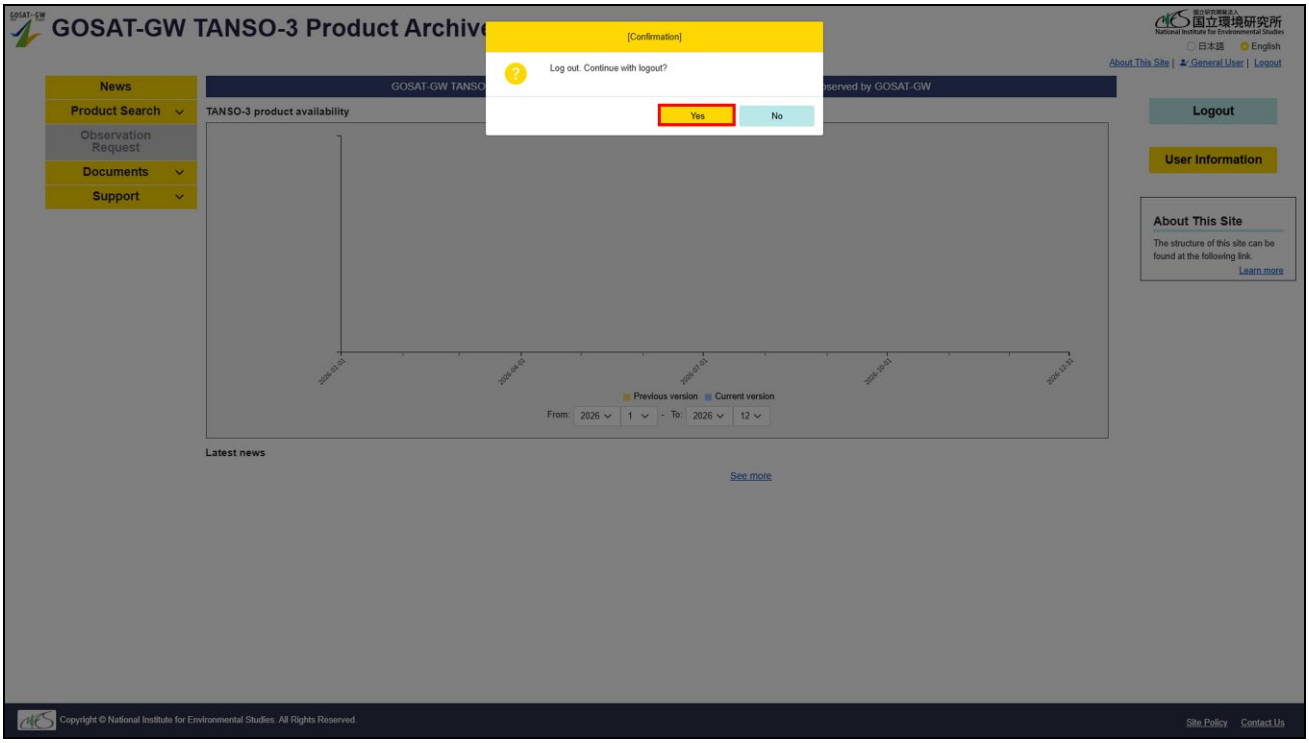


Figure 4-10 [Confirmation] Dialog

4.3. Password Change

In this section, we will explain the procedure for changing the password.

4.3.1. When you forget your password

By clicking the [Reissue of password] link on the [Login] screen, you will be taken to the [Password Reissue Request] screen.

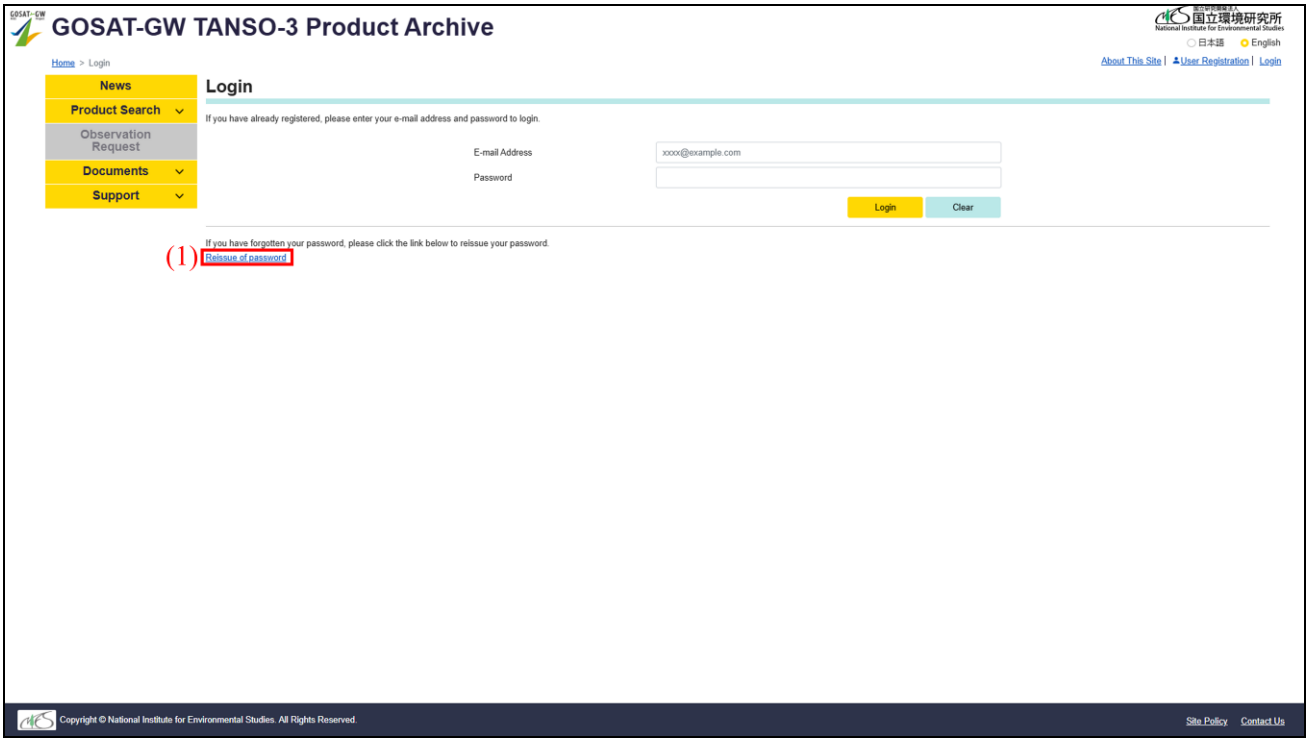


Figure 4-11 [Login] screen

(1) [Reissue of password] link

You will be taken to the [Password Reissue Request] screen.

4.3.1.1. Password Reissue Request

Enter your e-mail address and click the [Apply] button.

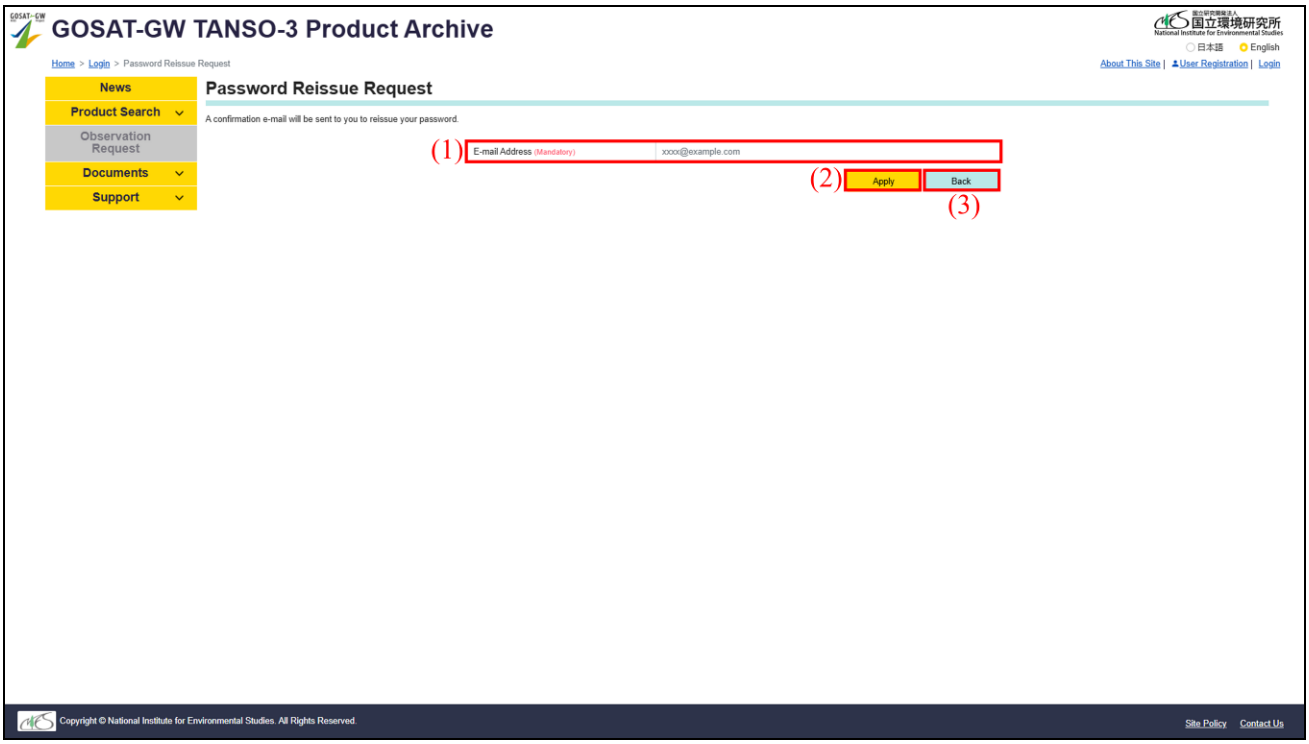


Figure 4-12 [Password Reissue Request] screen.

(1) [E-mail Address]

Enter your e-mail address.

(2) [Apply] Button

Request a password reset and display the [Password Reissue Request Completed] screen.

(3) [Back] Button

Return to the [Login] screen.

4.3.1.2. Password Reissue Request Completed

The [Password Reissue Request Completed] screen will be displayed.

After that, a password reset request confirmation e-mail will be sent to the registered e-mail address.

Notes:

Keep the verification code handy as it will be used in the "Password Reissue" screen mentioned later.

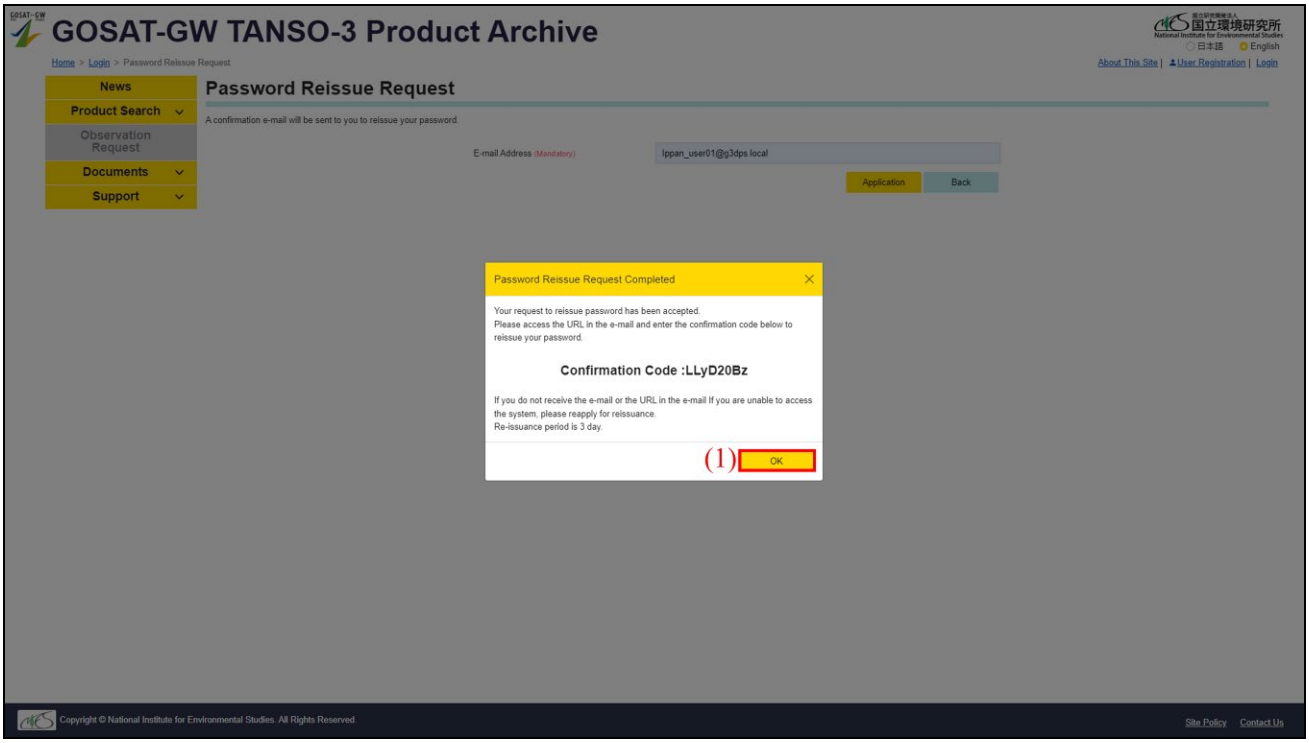


Figure 4-13 [Password Reissue Request Completed] screen.

(1) [OK] Button

Return to the [Login] screen.

4.3.1.3. Password Reissue

By accessing the URL provided in the password reissue request confirmation e-mail, the [Password Reissue] screen will be displayed.

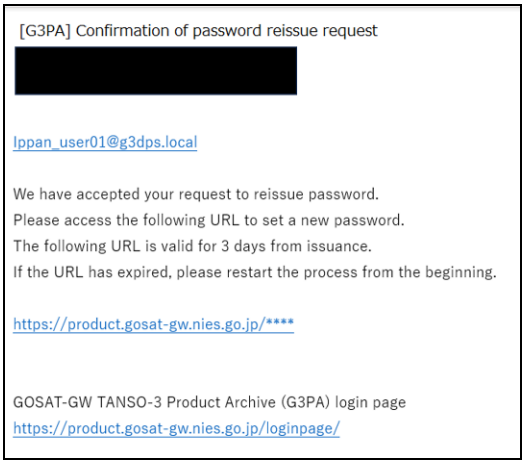
Notes:

The URL provided in the password reset confirmation e-mail is valid for 3 days (*).

If this period expires, please restart the password reset process from Section 4.3.1.

If you do not receive an e-mail after the [Password Reissue Request Completed] screen is displayed, please contact the support listed in Section 8.1.

(*) The validity period may change depending on system settings. Please adhere to the expiration date specified on the [Password Reissue Request Completed] screen and in the password reset confirmation e-mail.


[G3PA] Confirmation of password reissue request

[redacted]

Ippan_user01@g3dps.local

We have accepted your request to reissue password.
Please access the following URL to set a new password.
The following URL is valid for 3 days from issuance.
If the URL has expired, please restart the process from the beginning.

https://product.gosat-gw.nies.go.jp/****

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 4-14 Password Reissue Request Confirmation E-mail

Enter the verification code and new password, then click the [Reissue] button.

Figure 4-15 [Password Reissue] Screen

(1) [Confirmation Code]

Enter the verification code displayed on the [Password Reissue Request Completed] screen.

(2) [New Password]

Enter a new password. The conditions for setting a possible password are as follows:

- Password must be at least 10 and no more than 30 characters.
- Contains at least one upper/lower case alphabetical letter/number/symbol.
- Available symbols !$%()=~|,./:][?_+*}{@-^

Please avoid using the same password as other internet services.

(3) [New Password (Confirm)]

For confirmation, re-enter the new password.

(4) [Reissue] Button

Proceed with the password reissue and display the [Password Reissue Completed] screen.

Notes:

- If the verification code is entered incorrectly multiple times

If the verification code is entered incorrectly more than 10 times (*), an error dialog will be displayed. Please start over the password reissue request from the procedure in Section 4.3.1.

- If you forget the verification code note

You can start over the password reissue request from the procedure in Section 4.3.1 by meeting one of the following conditions:

・The URL mentioned in the password reissue request confirmation e-mail has expired.

・You enter the verification code incorrectly more than 10 times (*) on the "Password Reissue" screen.

(*) The maximum number of attempts may change depending on the system settings.

4.3.1.4. Password Reissue Completed

The [Password Reissue Completed] screen will be displayed.

Afterwards, a password reissue completion notification e-mail will be sent to the registered e-mail address.

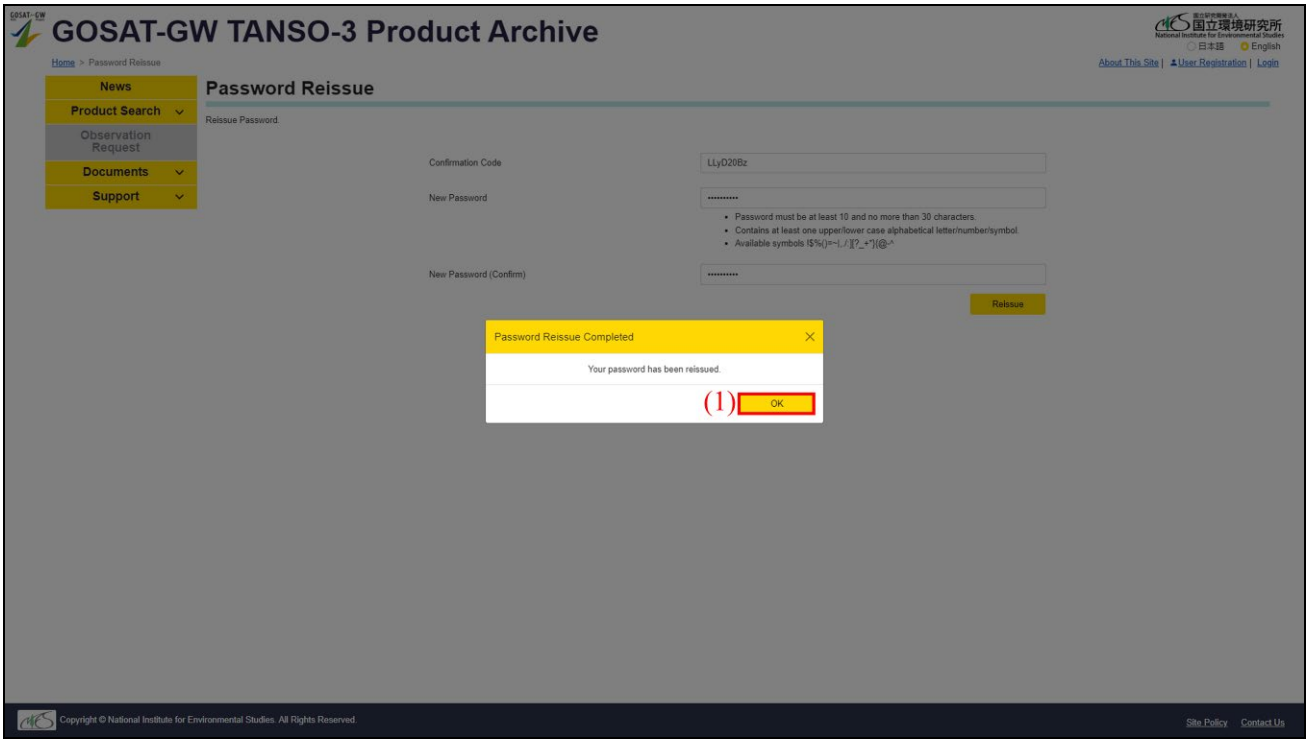


Figure 4-16 [Password Reissue Completed] Screen.

(1) [OK] Button

Closes the [Password Reissue Completed] screen and transitions to the [Login] screen.

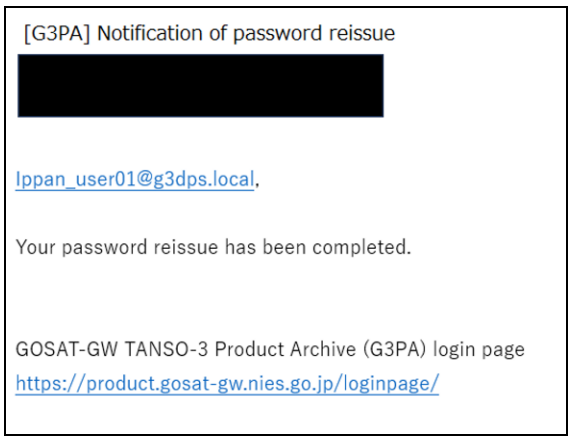


Figure 4-17 Password Reissue Completion Notification E-mail

4.3.2. Changing the Password

After logging in, click the [Password Change] button on the [User Information] screen to display the [Password Change] screen.

Figure 4-18 [User Information] Screen

(1) [Password Change] Button

Displays the [Password Change] screen.

4.3.2.1. Password Change

Enter your current password and new password, then click the [Change] button.

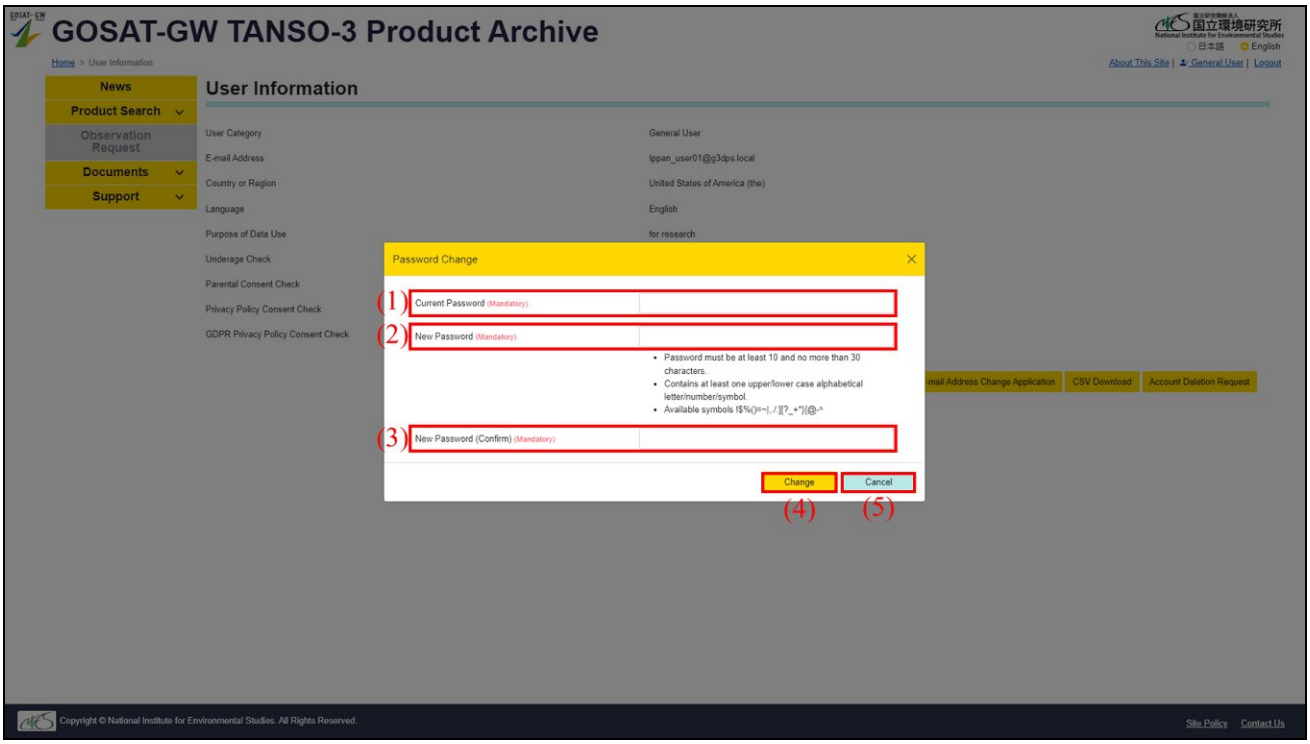


Figure 4-19 [Password Change] Screen

(1) [Current Password]

Enter your current password.

(2) [New Password]

Enter your new password. The conditions for setting a new password are as follows:

- Password must be at least 10 and no more than 30 characters.
- Contains at least one upper/lower case alphabetical letter/number/symbol.
- Available symbols !$%()=~|,./:][?_+*}{@-^

Please avoid using the same password as other internet services.

(3) [New Password (Confirm)]

For confirmation, re-enter your new password.

(4) [Change] Button

Performs the password change and displays the [Password Change Completed] screen.

(5) [Cancel] Button

Cancels the password change and closes the [Password Change] screen.

4.3.2.2. Password Change Completed

The [Password Change Completed] screen is displayed, then click the [OK] button.

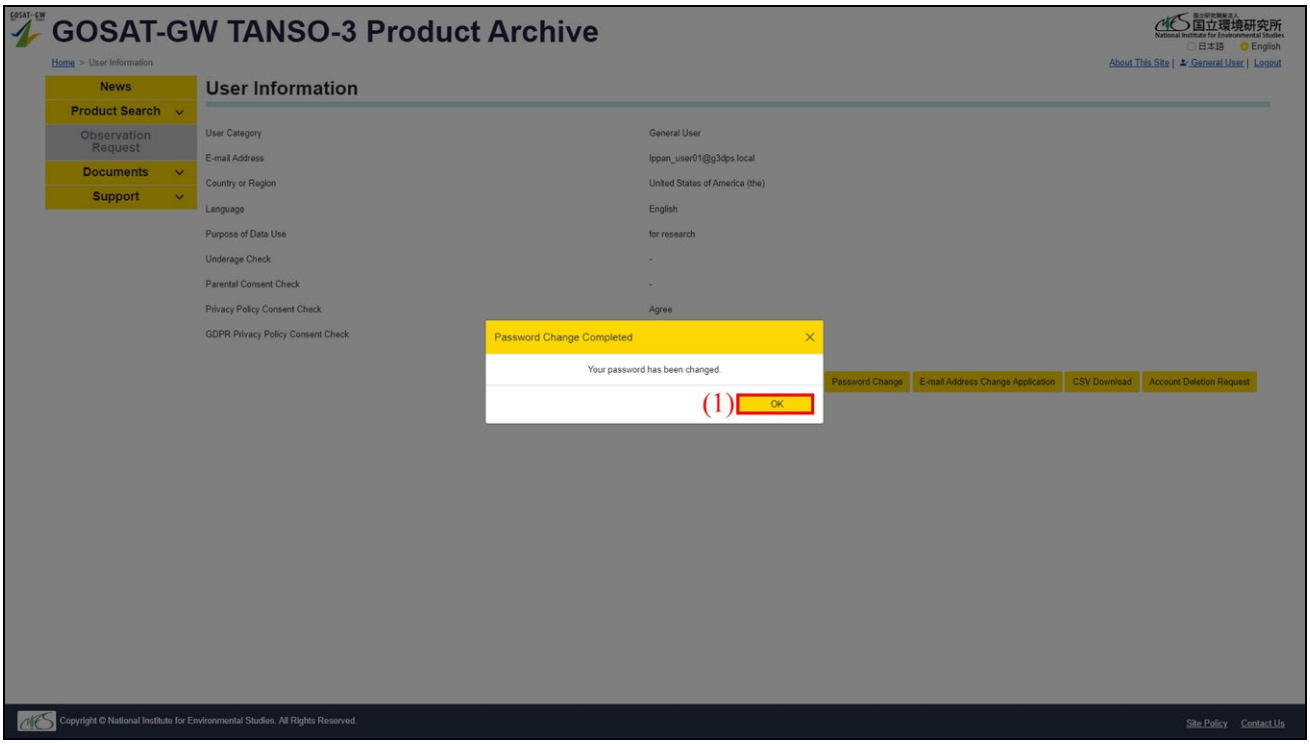


Figure 4-20 [Password Change Completed] Screen

(1) [OK] Button

Closes the [Password Change Completed] screen.

4.4. User Information Update

This section explains the procedure for updating user information.

After logging in, click the [User Information Update] button on the [User Information] screen to display the [User Information Update] screen.

Figure 4-21 [User Information] Screen

(1) [User Information Update] Button

Displays the [User Information Update] screen.

4.4.1. User Information Update

Enter your user information and click the [Save] button.

Figure 4-22 [User Information Update] Screen

(1) [E-mail Address]

Displays the current e-mail address.

If you need to update your e-mail address, please refer to Section 4.5 E-mail Address Change.

(2) [Country or Region]

Select your country or region.

(3) [Language]

Choose between Japanese or English. This selection will be used for e-mail notifications and the language displayed after logging in.

(4) [Purpose of Data Use]

Enter the purpose of data use in 512 characters or less.

(5) [Underage Check]

If you are a underage, check this box.

(6) [Parental Consent Check]

This becomes available for input if the underage check is selected. Underages must always have the consent of their legal guardians.

Notes:

Underages must always have the consent of their legal guardians. If consent is not given, the account will be deleted. For more details, please refer to Section 4.7.

For definitions of underages and legal guardians, please refer to the privacy policy outlined in Section 1.1.

(7) [Privacy Policy Consent Check]

Check this box if you agree to the [Privacy Policy].

Notes:

Consent to the privacy policy is required to use this service. If consent is not given, the account will be deleted. For more details, please refer to Section 4.7.

(8) [Privacy Policy] Link

Opens the [Privacy Policy] screen in a separate browser tab.

(9) [GDPR Privacy Policy Consent Check]

Check this box if you agree to the [GDPR Privacy Policy].

Notes:

Consent to the GDPR privacy policy is required to use this service. If consent is not given, the account will be deleted. For more details, please refer to Section 4.7.

(10) [GDPR Privacy Policy] Link

Opens the [GDPR Privacy Policy] screen in a separate browser tab.

(11) [Save] Button

Saves the updated user information. A [Confirmation] dialog is displayed.

(12) [Cancel] Button

Cancels the user information update and closes the [User Information Update] screen.

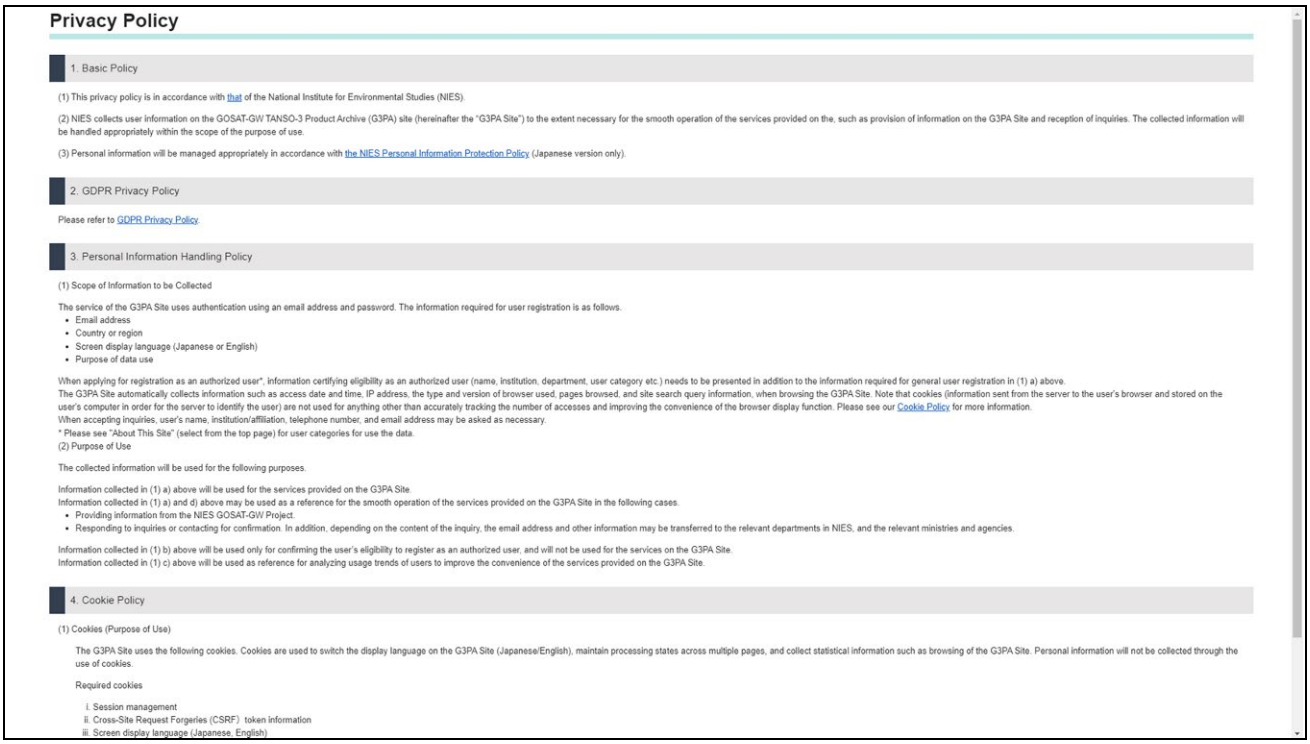


Figure 4-23 [Privacy Policy] Screen 1

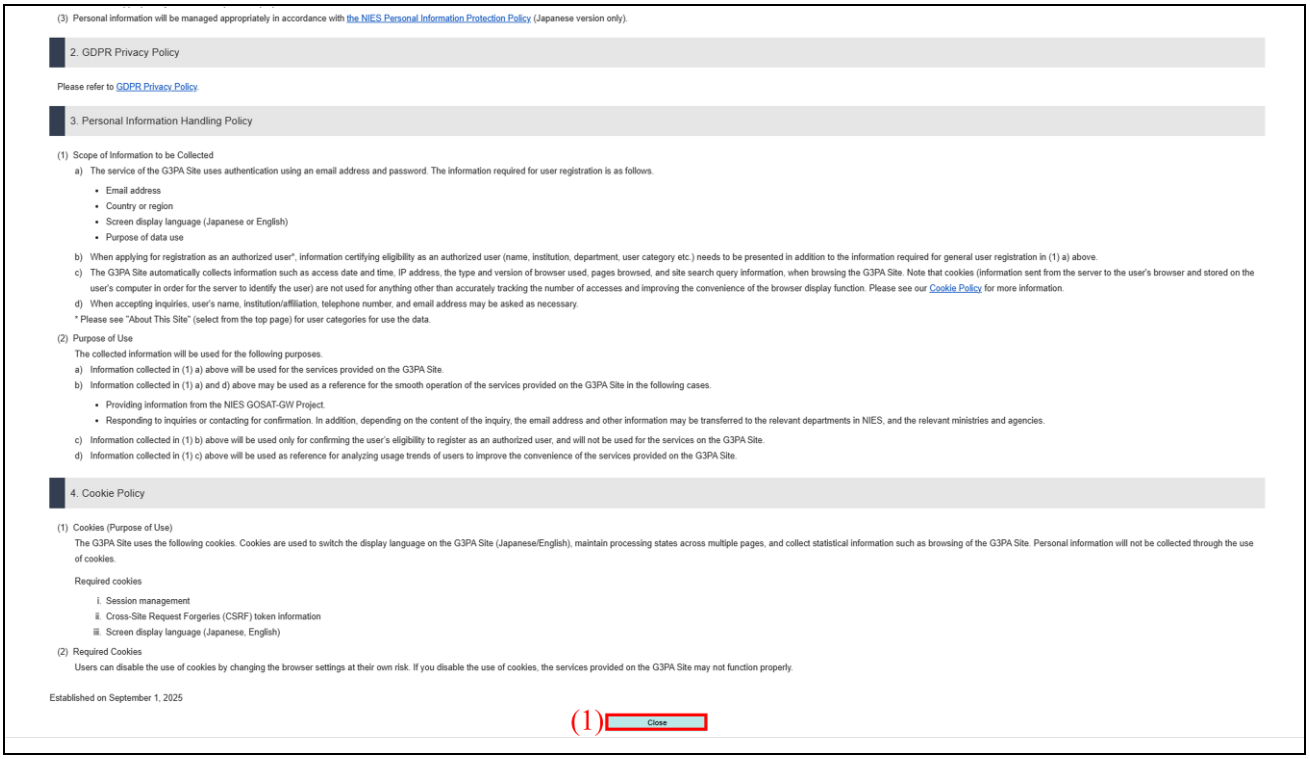
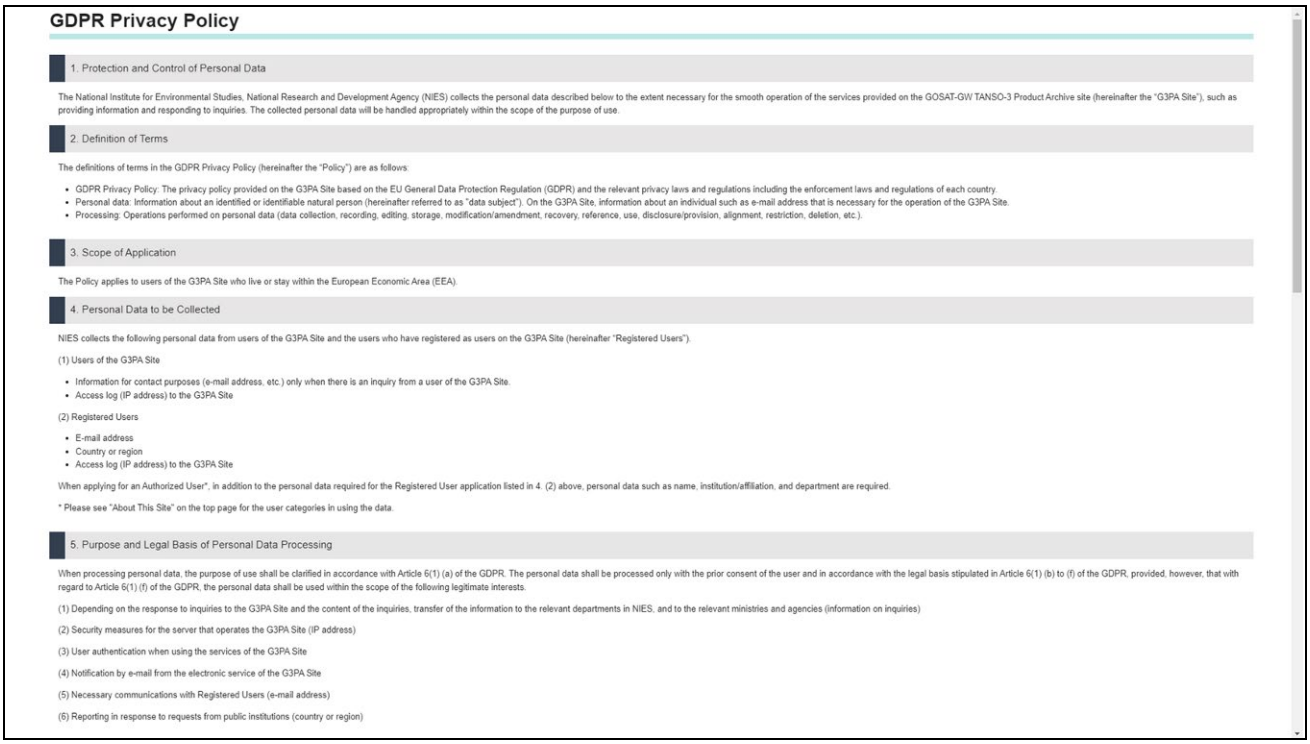


Figure 4-24 [Privacy Policy] Screen 2

(1) [Close] Button

Closes the browser tab that has the [Privacy Policy] screen open.



GDPR Privacy Policy

1. Protection and Control of Personal Data

The National Institute for Environmental Studies, National Research and Development Agency (NIES) collects the personal data described below to the extent necessary for the smooth operation of the services provided on the GOSAT-GW TANSO-3 Product Archive site (hereinafter the "G3PA Site"), such as providing information and responding to inquiries. The collected personal data will be handled appropriately within the scope of the purpose of use.

2. Definition of Terms

The definitions of terms in the GDPR Privacy Policy (hereinafter the "Policy") are as follows:

- GDPR Privacy Policy: The privacy policy provided on the G3PA Site based on the EU General Data Protection Regulation (GDPR) and the relevant privacy laws and regulations including the enforcement laws and regulations of each country.
- Personal data: Information about an identified or identifiable natural person (hereinafter referred to as "data subject"). On the G3PA Site, information about an individual such as e-mail address that is necessary for the operation of the G3PA Site.
- Processing: Operations performed on personal data (data collection, recording, editing, storage, modification/amendment, recovery, reference, use, disclosure/provision, alignment, restriction, deletion, etc.).

3. Scope of Application

The Policy applies to users of the G3PA Site who live or stay within the European Economic Area (EEA).

4. Personal Data to be Collected

NIES collects the following personal data from users of the G3PA Site and the users who have registered as users on the G3PA Site (hereinafter "Registered Users").

(1) Users of the G3PA Site

- Information for contact purposes (e-mail address, etc.) only when there is an inquiry from a user of the G3PA Site.
- Access log (IP address) to the G3PA Site

(2) Registered Users

- E-mail address
- Country or region
- Access log (IP address) to the G3PA Site

When applying for an Authorized User", in addition to the personal data required for the Registered User application listed in 4. (2) above, personal data such as name, institution/affiliation, and department are required.

* Please see "About This Site" on the top page for the user categories in using the data.

5. Purpose and Legal Basis of Personal Data Processing

When processing personal data, the purpose of use shall be clarified in accordance with Article 6(1) (a) of the GDPR. The personal data shall be processed only with the prior consent of the user and in accordance with the legal basis stipulated in Article 6(1) (b) to (f) of the GDPR, provided, however, that with regard to Article 6(1) (f) of the GDPR, the personal data shall be used within the scope of the following legitimate interests.

(1) Depending on the response to inquiries to the G3PA Site and the content of the inquiries, transfer of the information to the relevant departments in NIES, and to the relevant ministries and agencies (information on inquiries)

(2) Security measures for the server that operates the G3PA Site (IP address)

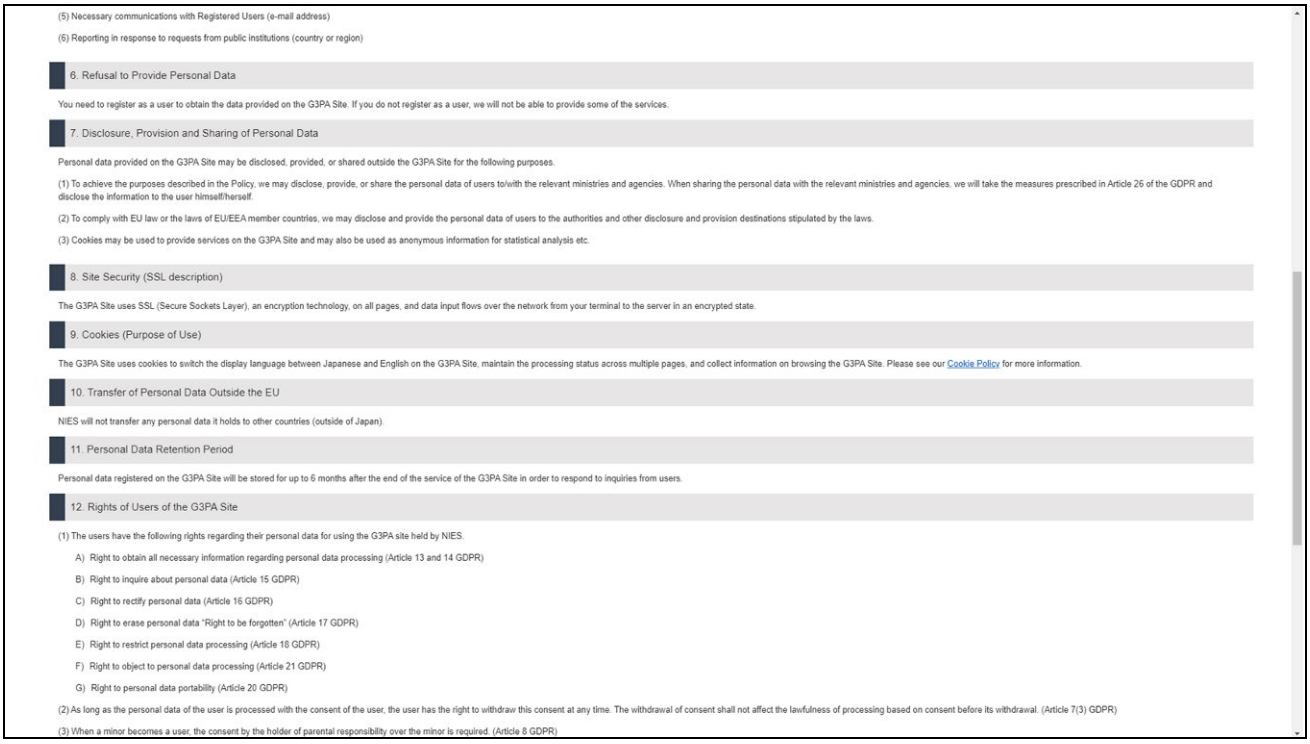
(3) User authentication when using the services of the G3PA Site

(4) Notification by e-mail from the electronic service of the G3PA Site

(5) Necessary communications with Registered Users (e-mail address)

(6) Reporting in response to requests from public institutions (country or region)

Figure 4-25 [GDPR Privacy Policy] Screen 1



(5) Necessary communications with Registered Users (e-mail address)

(6) Reporting in response to requests from public institutions (country or region)

6. Refusal to Provide Personal Data

You need to register as a user to obtain the data provided on the G3PA Site. If you do not register as a user, we will not be able to provide some of the services.

7. Disclosure, Provision and Sharing of Personal Data

Personal data provided on the G3PA Site may be disclosed, provided, or shared outside the G3PA Site for the following purposes.

(1) To achieve the purposes described in the Policy, we may disclose, provide, or share the personal data of users to/with the relevant ministries and agencies. When sharing the personal data with the relevant ministries and agencies, we will take the measures prescribed in Article 26 of the GDPR and disclose the information to the user himself/herself.

(2) To comply with EU law or the laws of EU/EEA member countries, we may disclose and provide the personal data of users to the authorities and other disclosure and provision destinations stipulated by the laws.

(3) Cookies may be used to provide services on the G3PA Site and may also be used as anonymous information for statistical analysis etc.

8. Site Security (SSL description)

The G3PA Site uses SSL (Secure Sockets Layer), an encryption technology, on all pages, and data input flows over the network from your terminal to the server in an encrypted state.

9. Cookies (Purpose of Use)

The G3PA Site uses cookies to switch the display language between Japanese and English on the G3PA Site, maintain the processing status across multiple pages, and collect information on browsing the G3PA Site. Please see our Cookie Policy for more information.

10. Transfer of Personal Data Outside the EU

NIES will not transfer any personal data it holds to other countries (outside of Japan).

11. Personal Data Retention Period

Personal data registered on the G3PA Site will be stored for up to 6 months after the end of the service of the G3PA Site in order to respond to inquiries from users.

12. Rights of Users of the G3PA Site

(1) The users have the following rights regarding their personal data for using the G3PA site held by NIES.

A) Right to obtain all necessary information regarding personal data processing (Article 13 and 14 GDPR)

B) Right to inquire about personal data (Article 15 GDPR)

C) Right to rectify personal data (Article 16 GDPR)

D) Right to erase personal data "Right to be forgotten" (Article 17 GDPR)

E) Right to restrict personal data processing (Article 18 GDPR)

F) Right to object to personal data processing (Article 21 GDPR)

G) Right to personal data portability (Article 20 GDPR)

(2) As long as the personal data of the user is processed with the consent of the user, the user has the right to withdraw this consent at any time. The withdrawal of consent shall not affect the lawfulness of processing based on consent before its withdrawal. (Article 7(3) GDPR)

(3) When a minor becomes a user, the consent by the holder of parental responsibility over the minor is required. (Article 8 GDPR)

Figure 4-26 [GDPR Privacy Policy] Screen 2

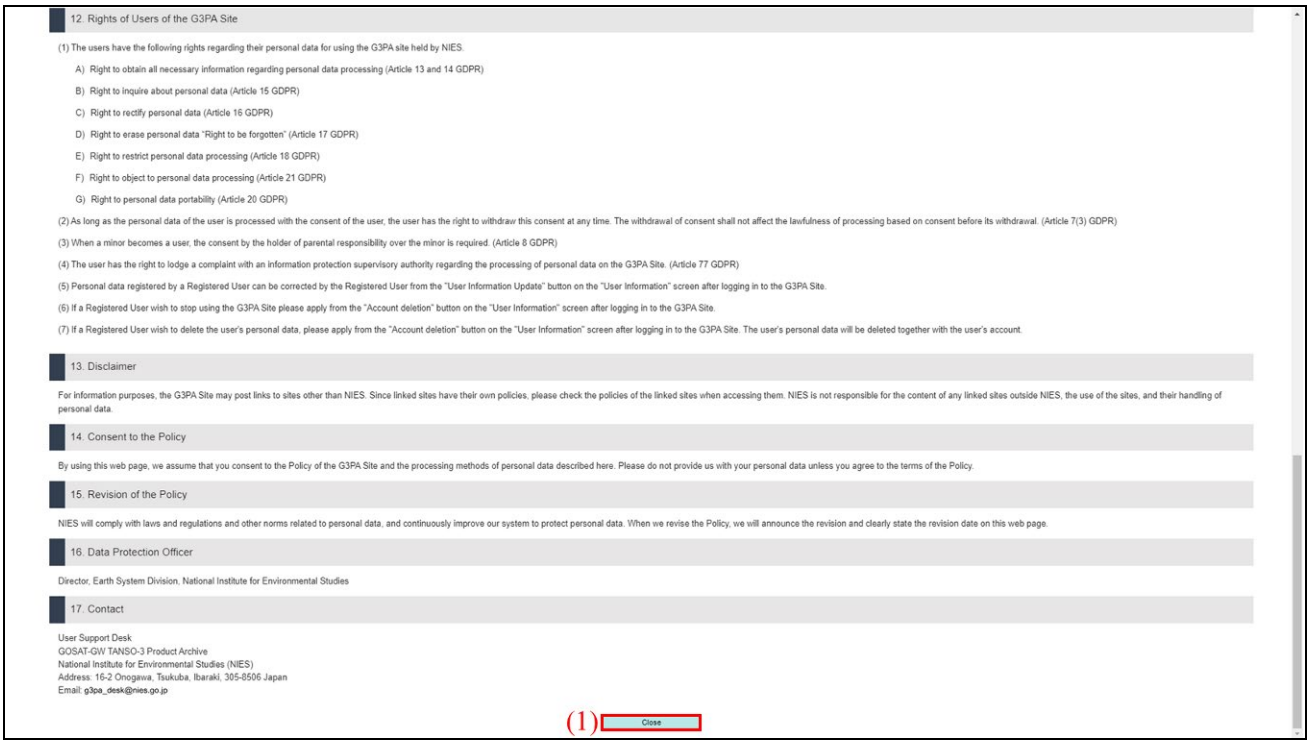


Figure 4-27 [GDPR Privacy Policy] Screen 3

(1) [Close] Button

Closes the browser tab that has the [GDPR Privacy Policy] screen open.

4.4.2. User Information Update Confirmation

[Confirmation] dialog appears, click the [Yes] button.

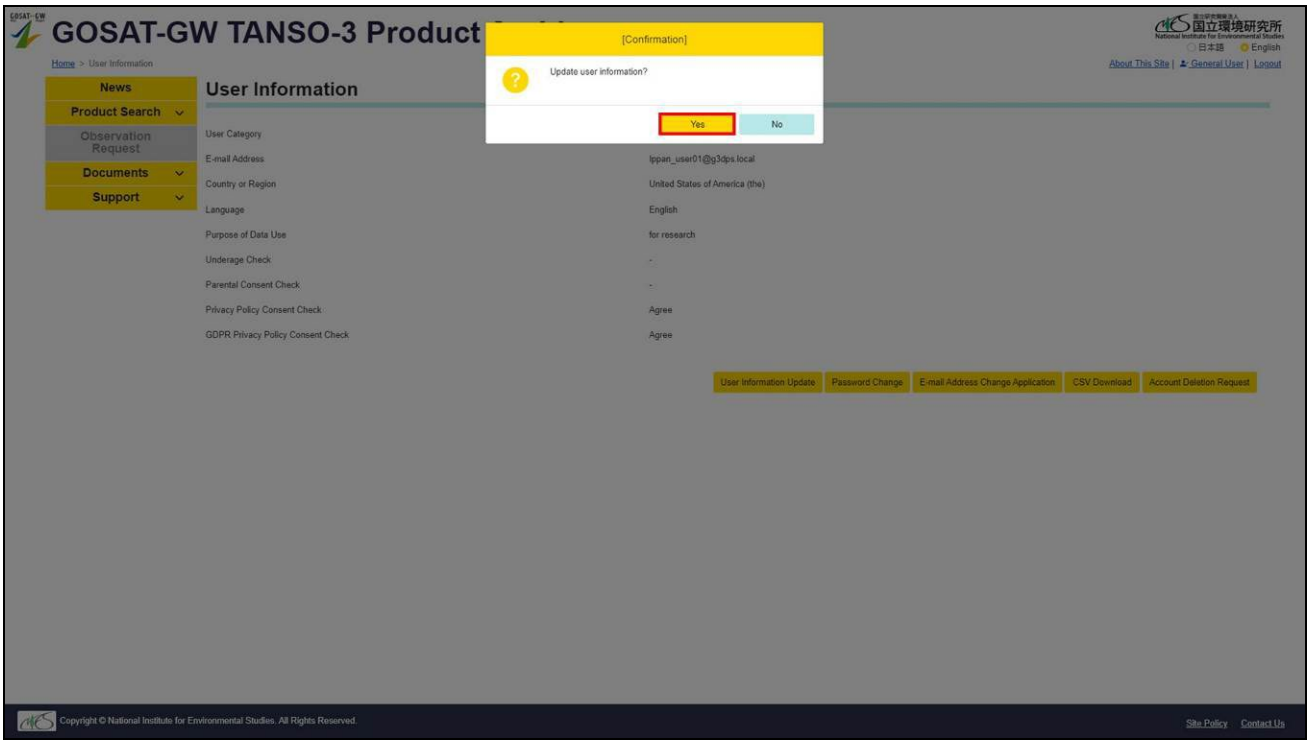


Figure 4-28 [Confirmation] Dialog

If the [Underage Check] is selected and the [Parental Consent Check] is not selected on the [User Information Update] screen, the following [Confirmation] dialog appears. Click the [Yes] button to delete the account. Click the [No] button to return to the [User Information Update] screen.

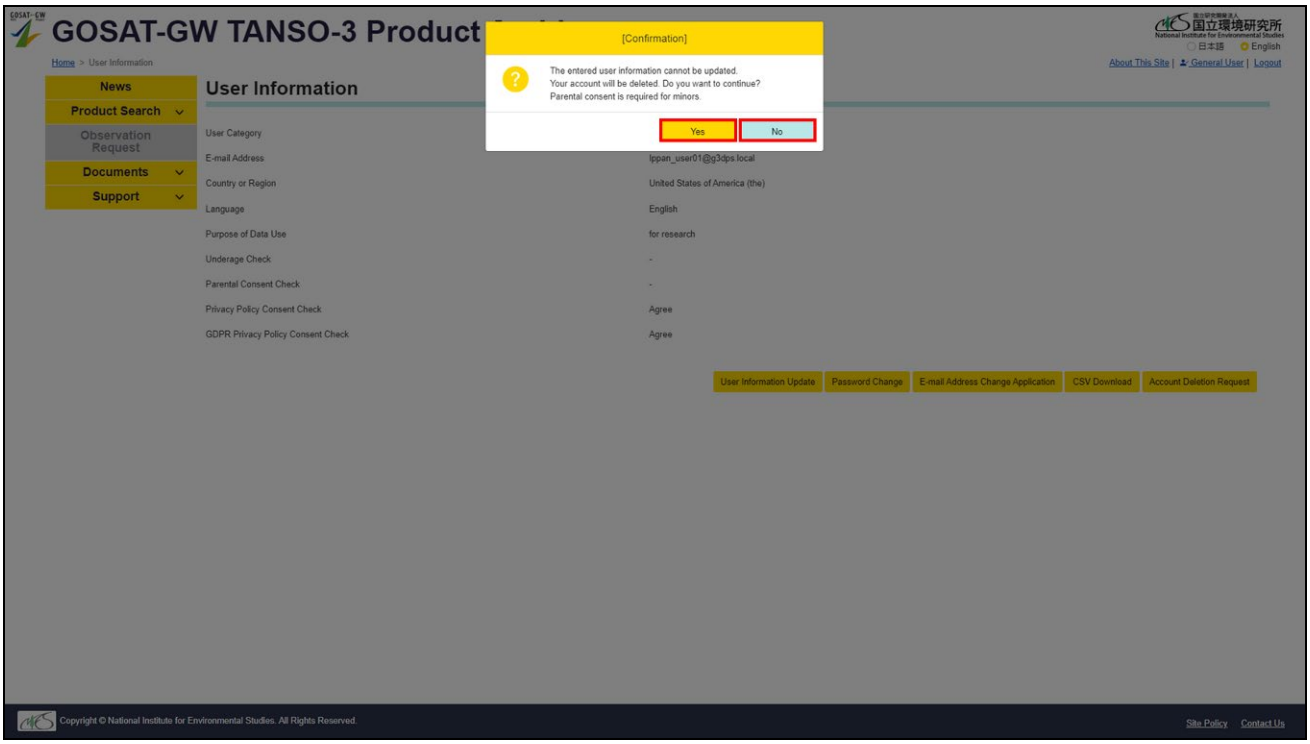


Figure 4-29 Account Deletion [Confirmation] Dialog

If the [Privacy Policy Consent Check] is not selected on the [User Information Update] screen, the following [Confirmation] dialog appears. Click the [Yes] button to delete the account. Click the [No] button to return to the [User Information Update] screen. The same applies if the [GDPR Privacy Policy Consent Check] is not selected.

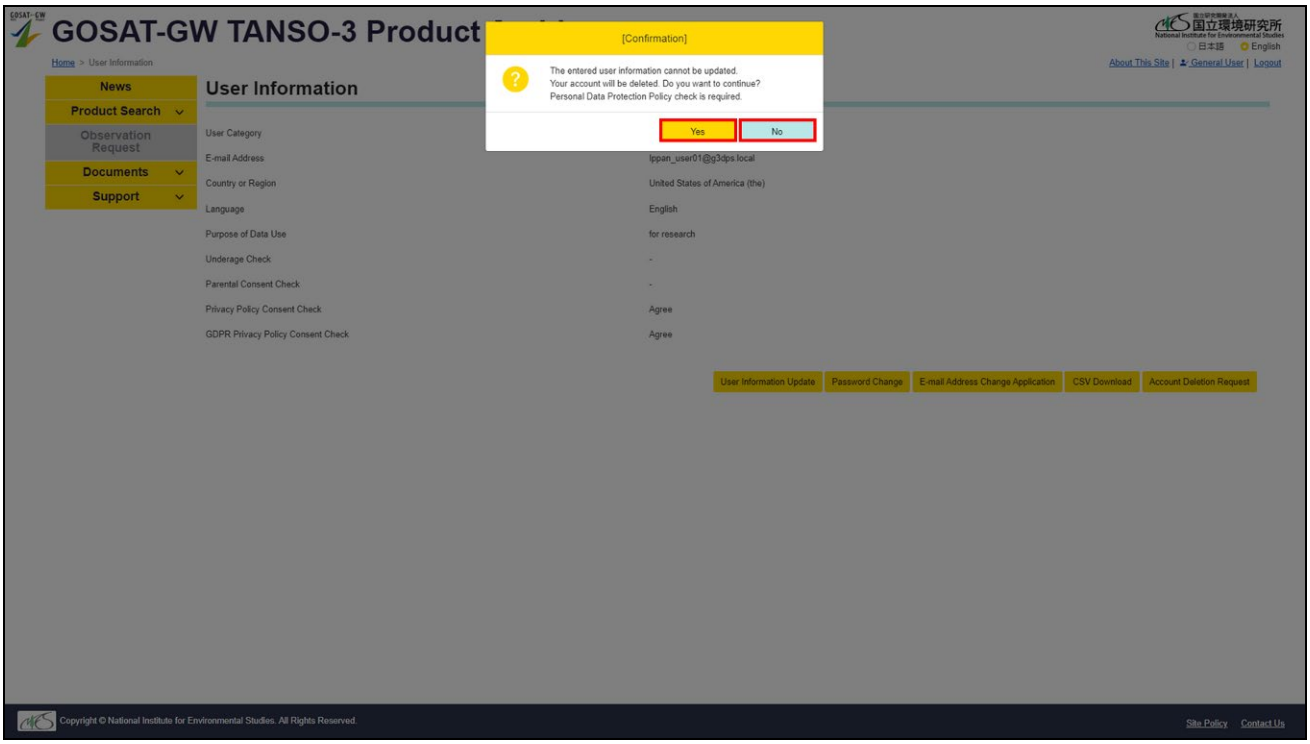


Figure 4-30 Account Deletion [Confirmation] Dialog

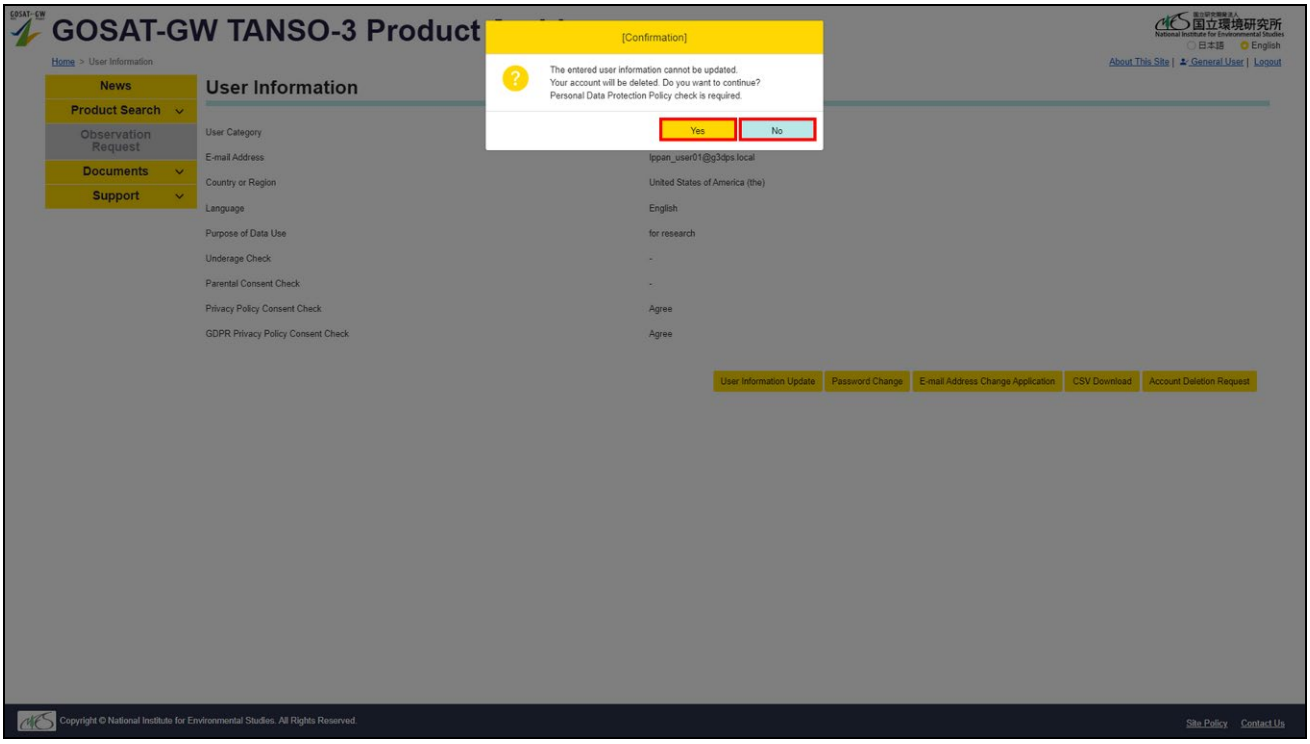


Figure 4-31 Account Deletion [Confirmation] Dialog

4.4.3. User Information Update Complete

The [User Information Update Complete] screen appears, click the [OK] button.

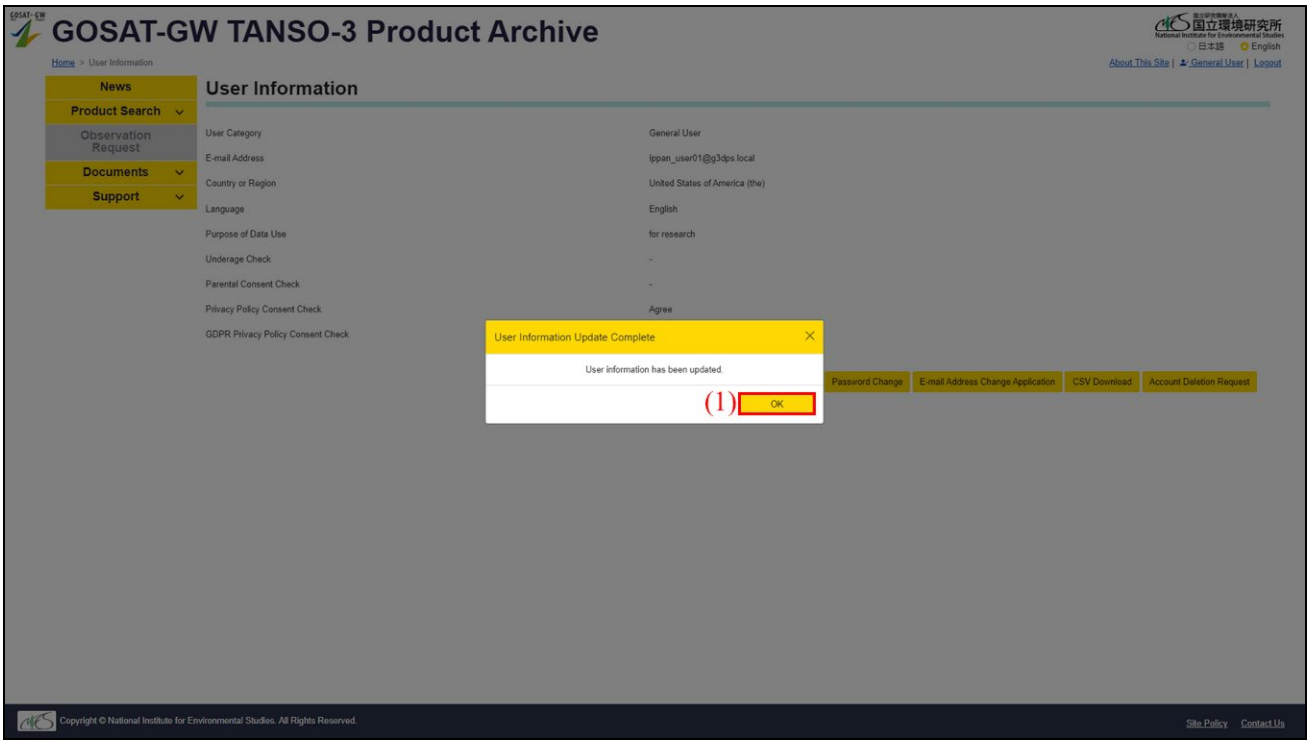


Figure 4-32 [User Information Update Complete] Screen

(1) [OK] Button

Closes the [User Information Update Complete] screen.

4.5. E-mail Address Change

This section explains the procedure for changing the e-mail address.

After logging in, click the [E-mail Address Change Application] button on the [User Information] screen to display the [E-mail Address Change Application] screen.

Figure 4-33 [User Information] Screen

(1) [E-mail Address Change Application] Button

Displays the [E-mail Address Change Application] screen.

4.5.1. E-mail Address Change Application

Enter the new e-mail address and click the [Apply] button.

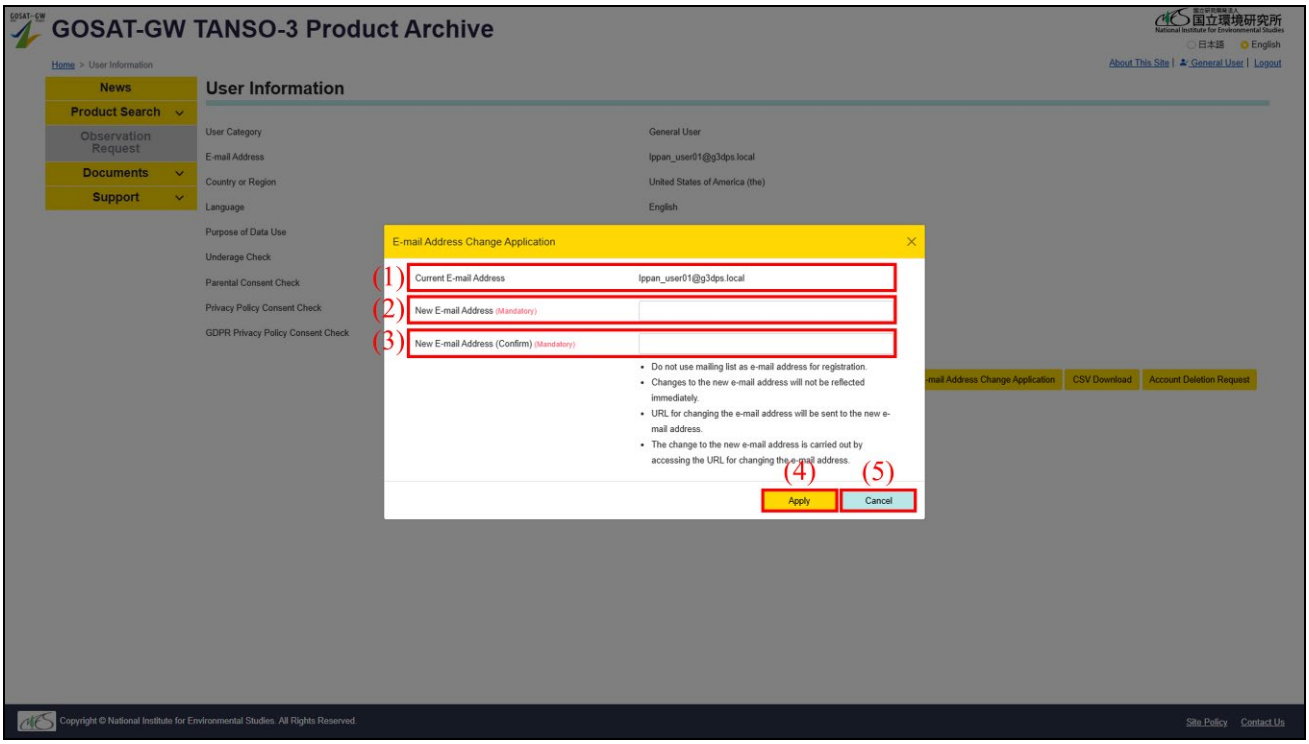


Figure 4-34 [E-mail Address Change Application] Screen

(1) [Current E-mail Address]

Displays the current e-mail address.

(2) [New E-mail Address]

Enter the new e-mail address, up to 256 characters. Do not use a mailing list for the registered e-mail address.

(3) [New E-mail Address (Confirm)]

Re-enter the new e-mail address for confirmation.

(4) [Apply] Button

Proceeds with the e-mail address change request and displays the [E-mail Address Change Application Completed] screen.

(5) [Cancel] Button

Cancels the e-mail address change request and closes the [E-mail Address Change Application] screen.

Notes:

A warning or error dialog will be displayed in the following cases:

- If the entered [New E-mail Address] and [New E-mail Address (Confirm)] do not match.
  Please correct the input and reapply for the e-mail address change

- If the entered [New E-mail Address] is already in use.
  Please use a different e-mail address and reapply for the e-mail address change.

- If an e-mail address change application has already been made and it is within the validity period of the URL mentioned in the e-mail address change confirmation e-mail.
  Please complete the e-mail address change following the procedure in Section 4.5.3.
  If you do not receive the e-mail address change confirmation e-mail or cannot access the URL mentioned in the e-mail, please wait until the URL's validity period has expired and then reapply for the e-mail address change.

4.5.2. E-mail Address Change Application Completed

The [E-mail Address Change Application Completed] screen will be displayed.

Afterwards, a confirmation e-mail for the e-mail address change request will be sent to the new e-mail address.

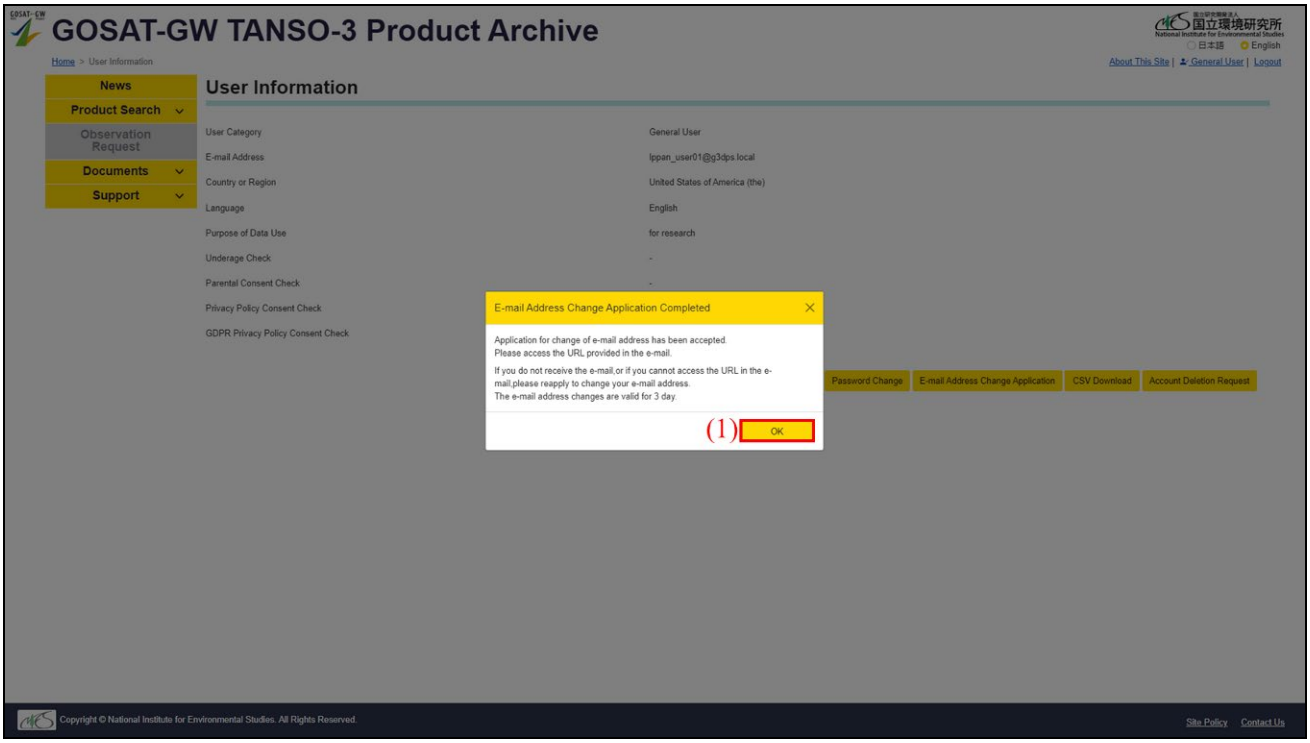


Figure 4-35 [E-mail Address Change Application Completed] Screen

(1) [OK] Button

Closes the [E-mail Address Change Application Completed] screen.

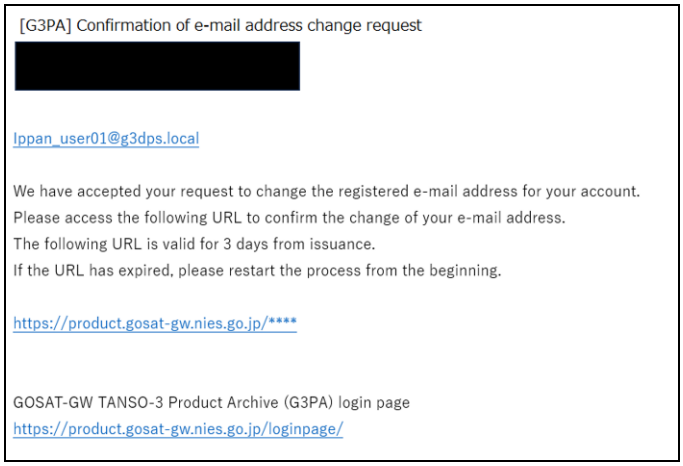
4.5.3. E-mail Address Change Completion

By accessing the URL mentioned in the e-mail address change application confirmation e-mail, the [E-mail Address Change Completed] screen will be displayed, and the e-mail address change will be completed.

Notes:

The URL provided in the e-mail address change application confirmation e-mail is valid for 3 days (*). If the validity period expires, please restart the e-mail address change process from Section 4.5. If you do not receive an e-mail after the [E-mail Address Change Application Completed] screen is displayed, please contact the support listed in Section 8.1.

(*) The validity period may change depending on system settings. Please follow the validity period mentioned on the [E-mail Address Change Application Completed] screen and in the e-mail address change request confirmation e-mail.


[G3PA] Confirmation of e-mail address change request

[redacted]

Ippan_user01@g3dps.local

We have accepted your request to change the registered e-mail address for your account.
Please access the following URL to confirm the change of your e-mail address.
The following URL is valid for 3 days from issuance.
If the URL has expired, please restart the process from the beginning.

https://product.gosat-gw.nies.go.jp/****

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 4-36 E-mail Address Change Application Confirmation E-mail

The [E-mail Address Change Completed] screen will be displayed, then click the [Login] link.

Figure 4-37 [E-mail Address Change Completed] Screen

(1) [Login] Link

Transitions to the [Login] screen.

4.6. User Information Download

This section explains the procedure for downloading user information.

After logging in, click the [CSV Download] button on the [User Information] screen to download user information.

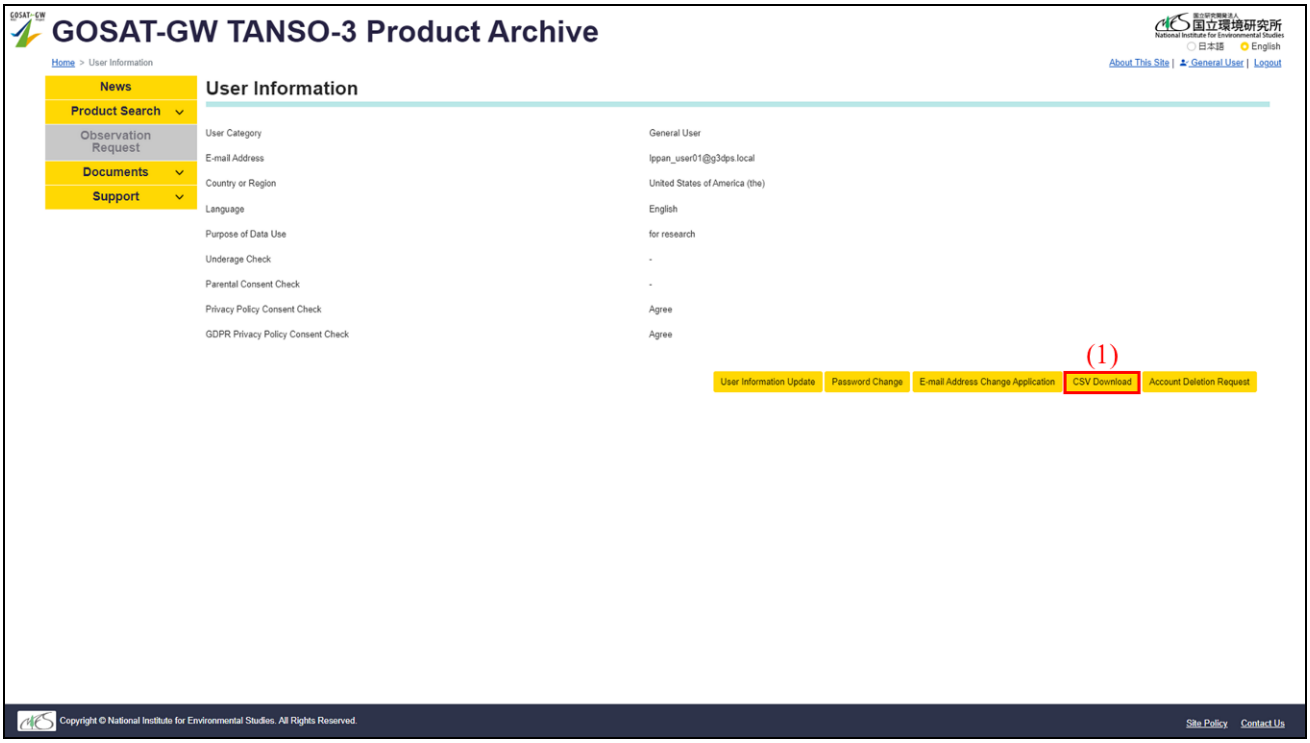


Figure 4-38 [User Information] Screen

(1) [CSV Download] Button

Downloads a CSV file containing user information.

The user information to be output is as follows.

Table 4.6-1 Output User Information

No.	Item Name	Description
1	User Category	User type (General User/Authorized User)
2	E-mail Address	E-mail address
3	Country or Region	Country or region
4	Language	Language used
5	Purpose of Data Use	Purpose of data use
6	Registration Date	Date and time when user registration was completed (※)
7	Update Date	Date and time when user information was last updated (※)
8	Last Login Date	Date and time when the user last successfully logged in (※)
9	Account Lock Date	Date and time when the account lock was executed (※)
10	Agreement Date for Privacy Policy consent	Date and time when the privacy policy was agreed to (※)
11	Agreement Date for GDPR Privacy Policy consent	Date and time when the GDPR privacy policy was agreed to (※)

(※) Use the yyyy-mm-dd HH:MM:SS format to display date and time

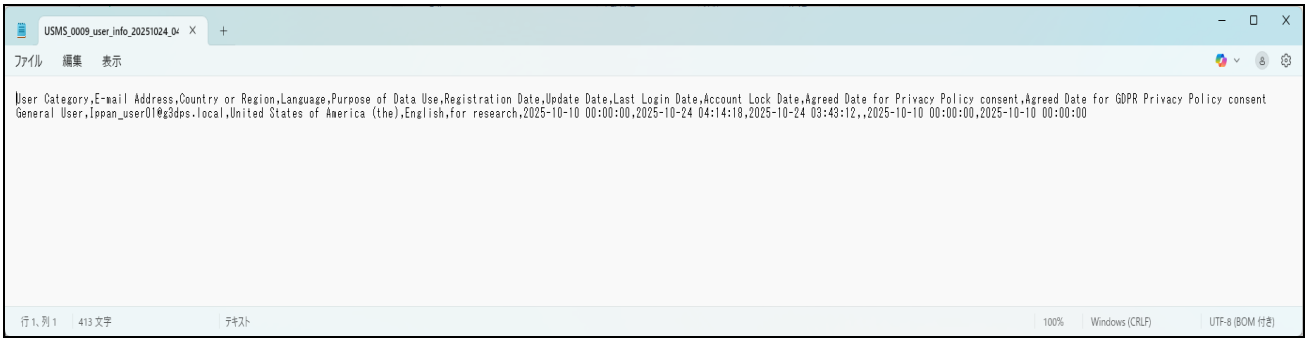


Figure 4-39 User Information CSV File

4.7. Account Deletion

This section explains the conditions and procedures for deleting an account.

Account deletion means deleting the account and all registered user information. After account deletion, it is possible to re-register using the same e-mail address.

4.7.1. Conditions for Account Deletion

The account will be deleted if the following actions and conditions are met:

- If the Underage check is ticked but the parental consent check is not updated when updating user information.
  Consent from a guardian is always required for underages.

- If the privacy policy consent check is not ticked when updating user information.
  Consent to the privacy policy is always required to use this service.

- If the GDPR privacy policy consent check is not ticked when updating user information.
  Consent to the GDPR privacy policy is always required to use this service.

- If there is no login for an extended period.
  If there is no login for more than 730 days (*), the account will be locked. If the account remains locked for more than 730 days (*) after that, the account will be deleted. Please refer to Section 4.8 for conditions for account lock and account unlock applications.

- If account deletion is requested and an account deletion application is made.

(*) These time limits may change depending on system settings.

4.7.2. Application for Account Deletion

After logging in, click the [Account Deletion Request] button on the [User Information] screen, and a [Confirmation] dialog will be displayed.

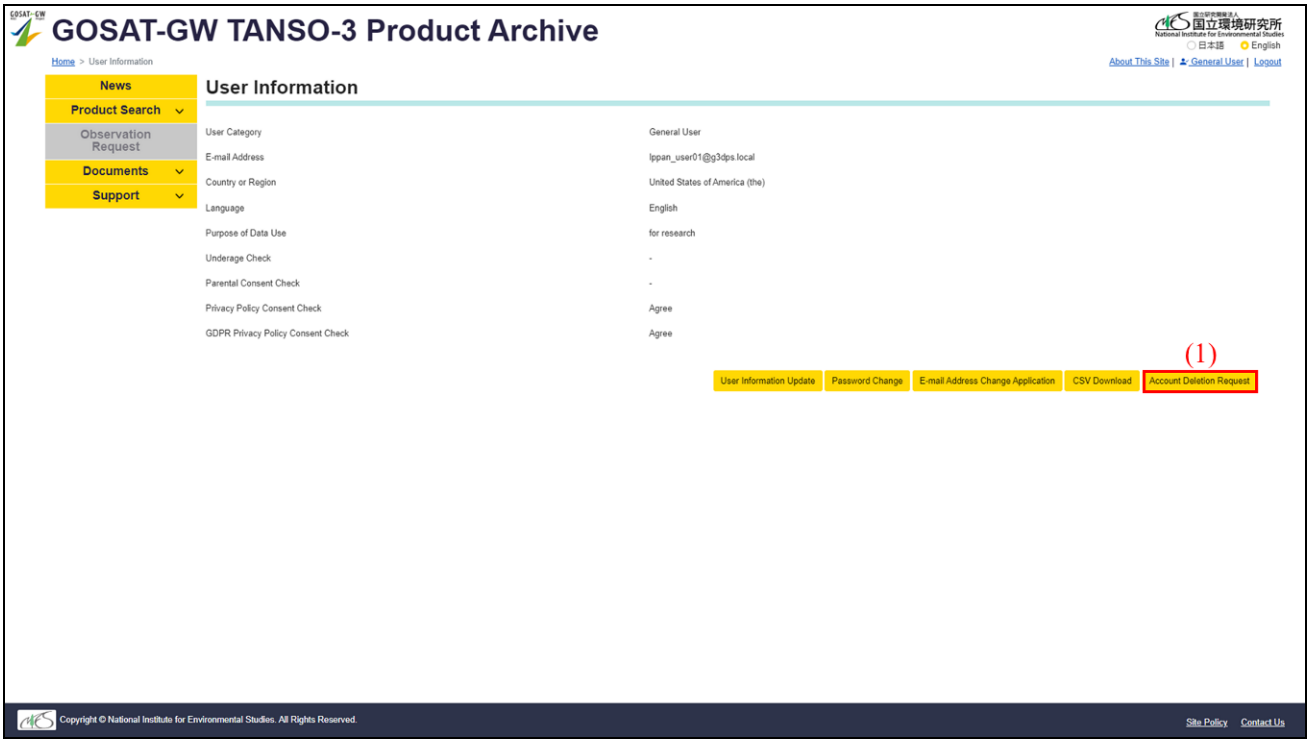


Figure 4-40 [User Information] Screen

(1) [Account Deletion Request] Button

Displays the [Confirmation] dialog.

The [Confirmation] dialog will be displayed, then click the [Yes] button.

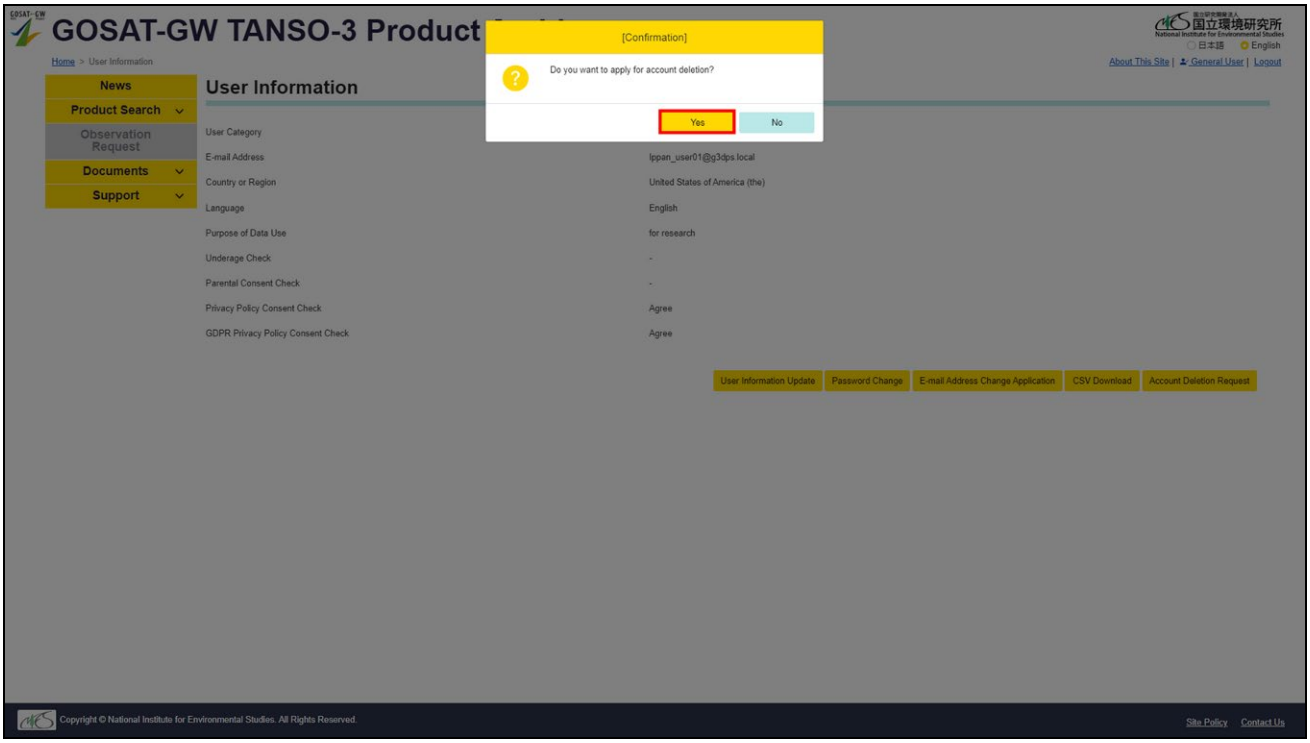


Figure 4-41 [Confirmation] Dialog

The [Information] dialog will be displayed, then click the [OK] button.

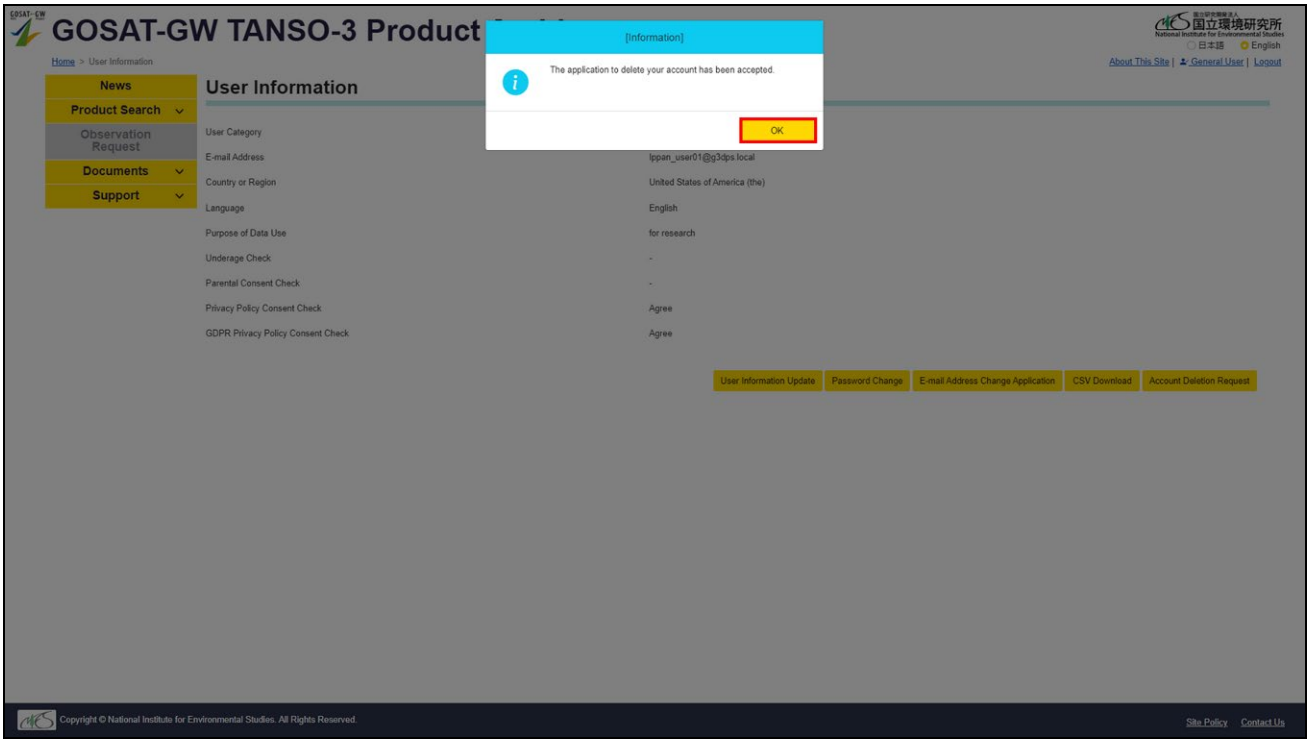


Figure 4-42 [Information] Dialog

Notes:

After completing the account deletion application, the account will not be deleted immediately.

Once the work by the NIES staff is completed, the account will be deleted.

4.7.3. Account Deletion Completion

After the account deletion application, if the account deletion is executed, an account deletion notification e-mail will be sent by the NIES staff.

4.8. If the Account is Locked

This section explains about account locks.

When an account is locked, it becomes impossible to log in. The account and user information remain.

4.8.1. Conditions for Account Lock

The account will be locked if the following conditions are met.

- IF user authentication fails consecutively.

  If user authentication fails more than 10 times (*), the account will be locked.

- If there is no login for an extended period.

  If there is no login for more than 730 days (*), the account will be locked.

(*) These numbers and time limits may change depending on system settings.

4.8.2. Application for Account Unlock

If the account is locked due to consecutive authentication failures, it will be automatically unlocked after 1 day (*). If the account is locked in other reasons, it will not be automatically unlocked, so if you wish to unlock it, please contact the support listed in Section 8.1.

(*) This number of days may change depending on system settings.

4.8.3. Account Unlock Completion

If your account is unlocked as a result of the inquiry, you will receive an unlock notification e-mail from NIES staff. If the account is unlocked automatically, you will not receive an unlock notification e-mail.

5. Product Search and Download <Target: General Users, Authorized Users>

This chapter explains the procedures for searching and downloading products.

To obtain the products handled by this service, you need to search for the desired product and download it.
Searching and downloading can be done via a browser or commands. Here, the term command refers to commands used in environments where UNIX commands can be executed, such as Mac or Linux terminals.
You can search and download products by "searching in the browser and downloading in the browser," "searching in the browser and downloading via commands using bash, python, etc.," or "searching and downloading via commands using bash, python, etc."

Additionally, it is necessary to register as a user in advance to search and download products. Please refer to Chapter 3 for user registration.

In the case of Windows, searching and downloading can be done using PowerShell commands.
Also, by using WSL with any distribution that can handle bash, you can prepare an environment to execute UNIX commands.
Note that while PowerShell can operate using the command wget, it actually runs a different command called Invoke-WebRequest, so please be careful not to confuse them.

(1) The flow to transition to the [Product Data Overview] screen is shown below.

[Home] screen [Section 2.1]
↓ ・Click [About Data] from the [Product Search] menu
[Product Data Overview] screen [Section 5.1]

(2) The flow to download a product using a browser is shown below. (Browser search method)

[Home] screen [Section 2.1]
↓ ・Click [Search & Download] from the [Product Search] menu
Enter search criteria [Section 5.2.1]
↓ ・Click the [Search] button
Check the list of search results [Section 5.2.2]
↓ ・Check the details of the search results
Confirm the details of the product [Section 5.2.3]
↓ ・Download the desired product
Implement product download [Section 5.2.4]

(3) The flow to download a product using commands is shown below. (Command search method)

Command search [Section 5.3.1]

↓ ・Check the search results

Download via command [Section 5.3.2]

5.1. Product Data Overview

This section explains the [Product Data Overview] screen.

Clicking [About Data] from the [Product Search] menu will transition you to the [Product Data Overview] screen. You can check the data overview of the products provided by this service.

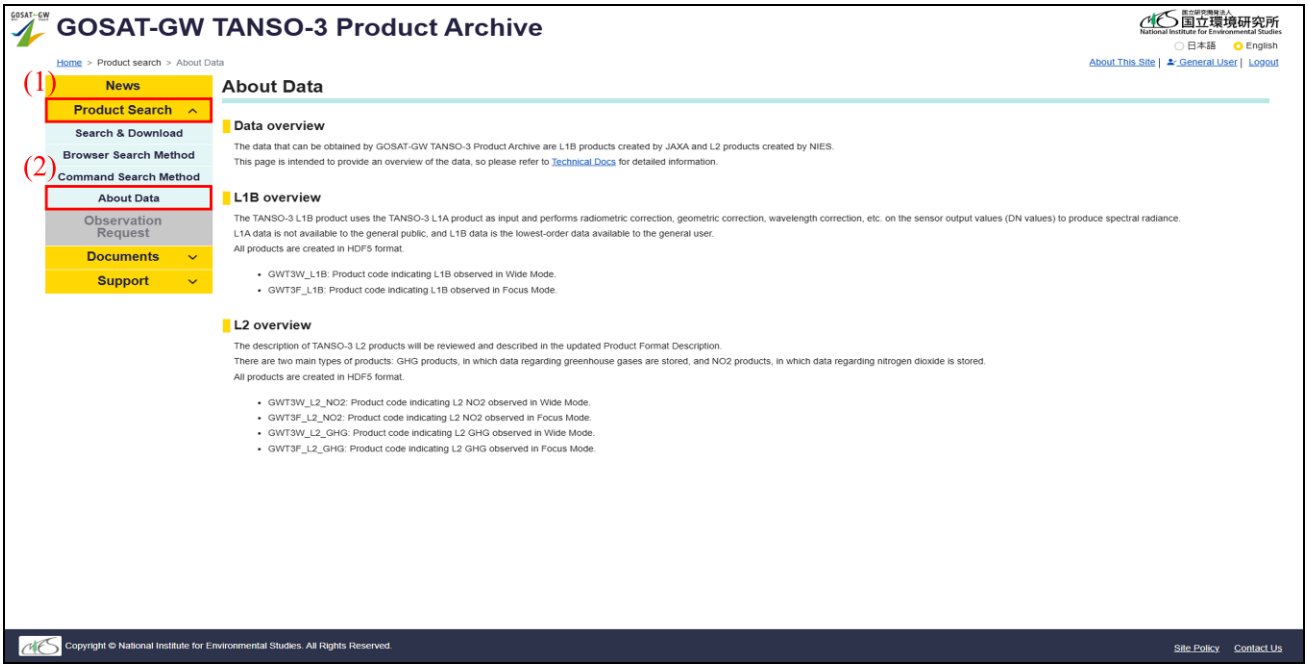


Figure 5-1 [Product Data Overview] screen

(1) [Product Search] menu

Open the product search menu.

(2) [About Data]

Transition to the [Product Data Overview] screen.

5.2. Browser Search Method

This section explains the search and download of products using a browser.

Clicking [Search & Download] from the [Product Search] menu will transition you to the [Search & Download] screen.

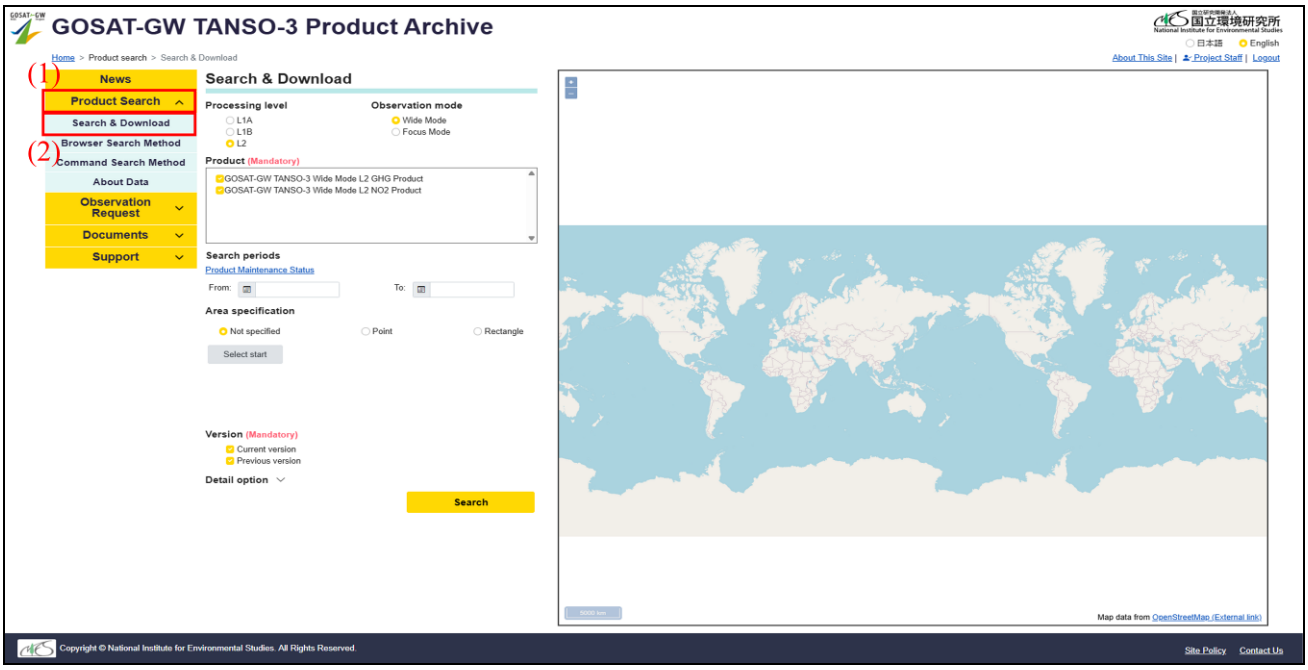


Figure 5-2 [Search & Download] screen

(1) [Product Search] menu

Open the product search menu.

(2) [Search & Download]

Transition to the [Search & Download] screen.

5.2.1. Search Condition Input

Operate the search items to find data that matches the expected conditions.

This section explains the items to be set during the search.

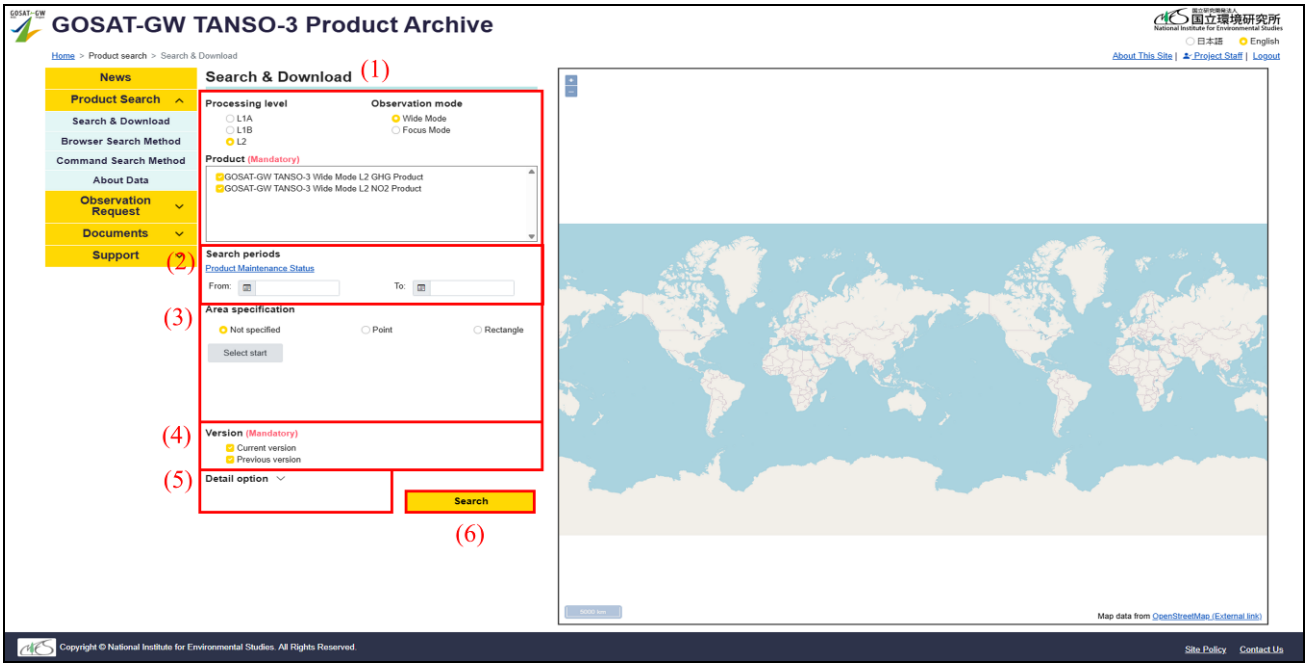


Figure 5-3 [Search & Download] Screen Search Condition Input

(1) [Product]

By switching the processing level and observation mode, a list of products that users can search for will be displayed.

Select only the products you want to search for from the displayed list.

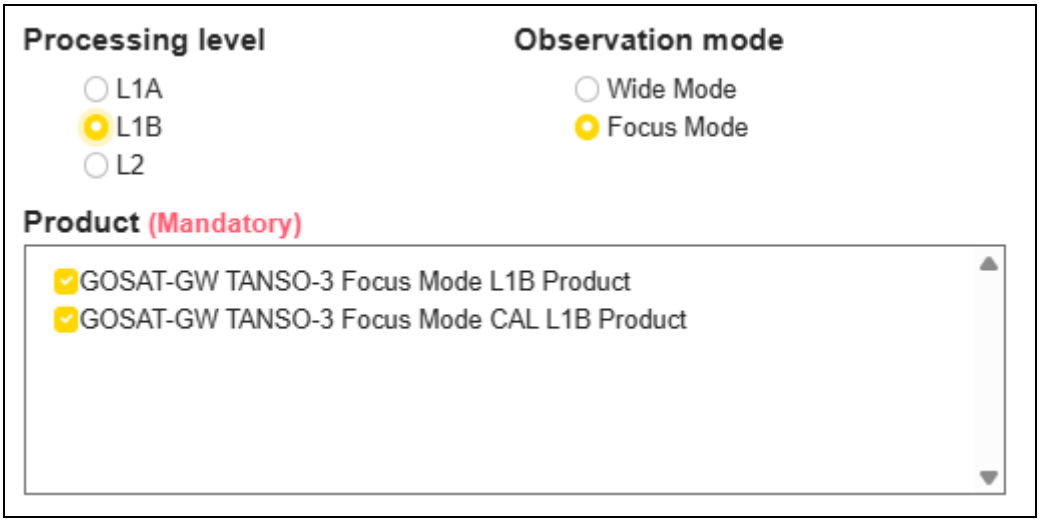


Figure 5-4 Example of Product Selection 1

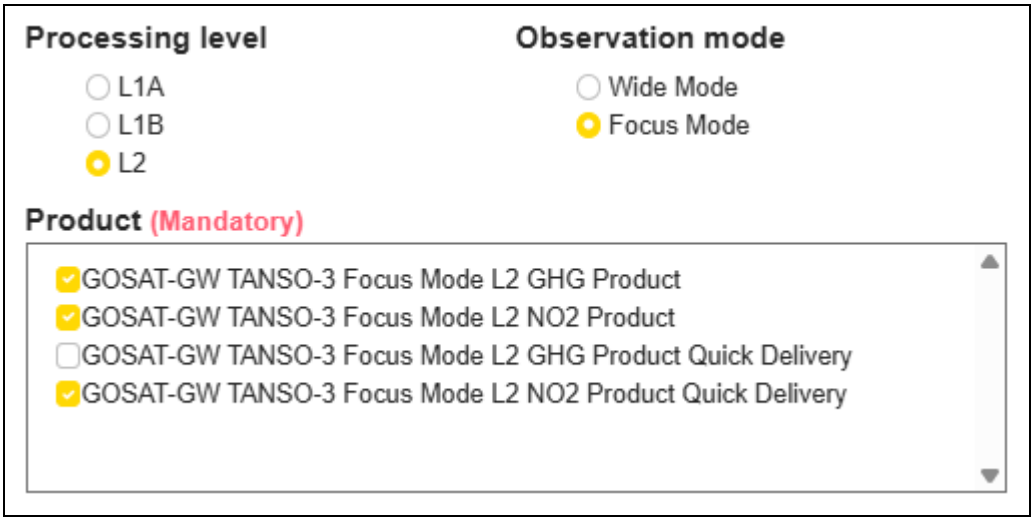


Figure 5-5 Example of Product Selection 2

(2) [Search Period]

It is possible to search without selecting a period, but if you want to search only for data observed during the desired period, set the search start date and search end date.

Products that have data observed during the selected period will match the search content. The search target is from 00:00:00 on the start date to 23:59:59 on the end date.

Clicking (2)-① displays a dialog to specify the start date.

Clicking (2)-② displays a dialog to specify the end date.

Clicking (2)-③ allows you to check the maintenance status of each product.

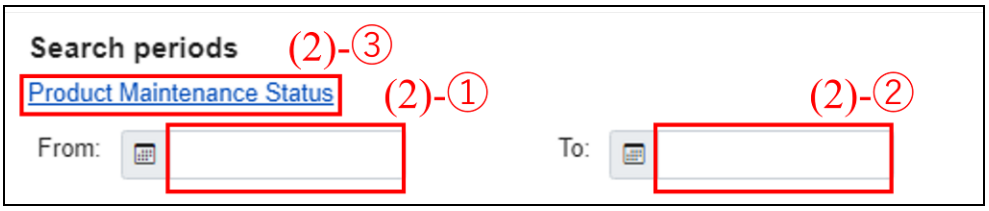


Figure 5-6 [Search Period]

Notes:

When specifying a search period, you cannot specify only the start date or the end date; both must be specified.

(3) [Area Specification]

Area selection is possible without specifying, but if you want to specify an area, select a point or rectangle, and either enter values directly into the input field or click the [Start Selection] button to select points or rectangles on the map.

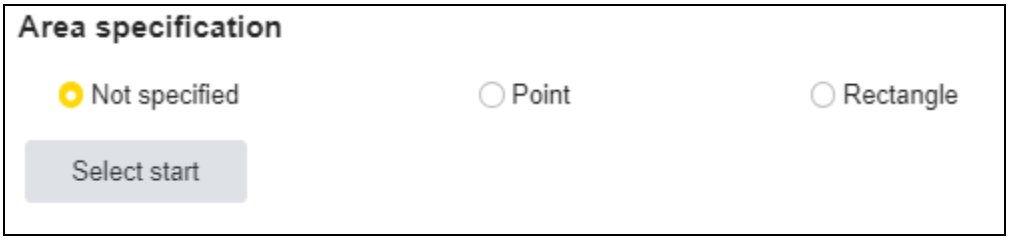


Figure 5-7 [Area Specification]

① No Specification

Enable this item if you do not want to specify an area.

② Point

Enable this item if you want to search for data that includes a specific point observation area.

You can specify by directly entering coordinates into the text box or by selecting points from the map screen.

When specifying from the map screen, clicking the [Select start] button enables point selection operation on the map. You can select the target point by clicking a point on the map.

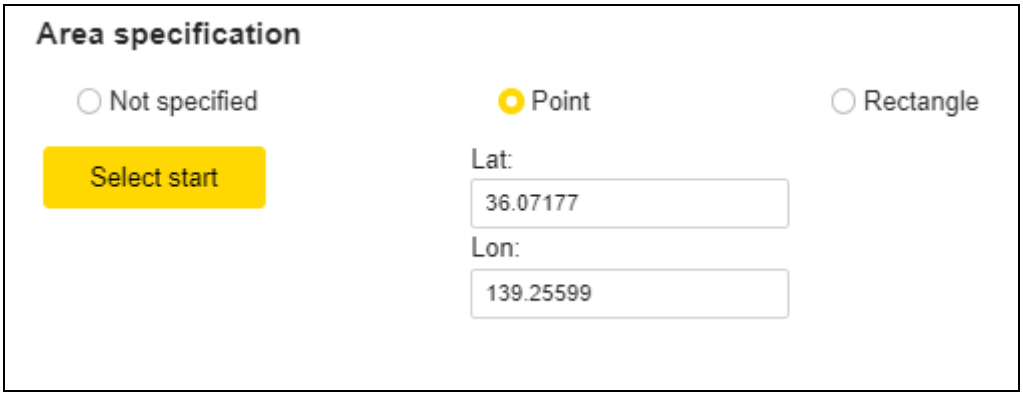


Figure 5-8 Point Specification

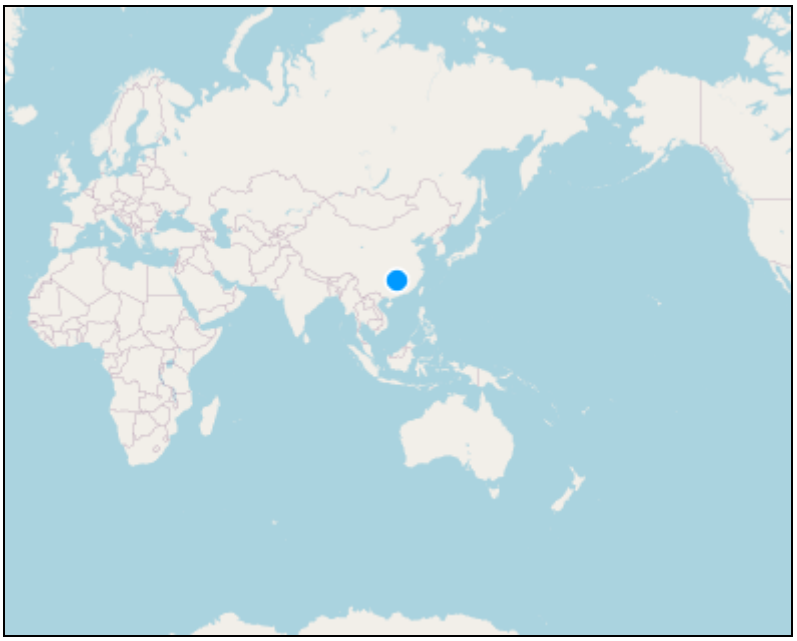


Figure 5-9 Map Point Selection

③ Rectangle

Enable this item if you want to search for data that includes a specific rectangular observation area.

You can specify by directly entering coordinates into the text box or by operating the map screen.

When specifying from the map screen, clicking the [Select start] button enables rectangle selection operation on the map. The selection of the rectangle starts by clicking a point on the map, and the search range is determined by clicking again.

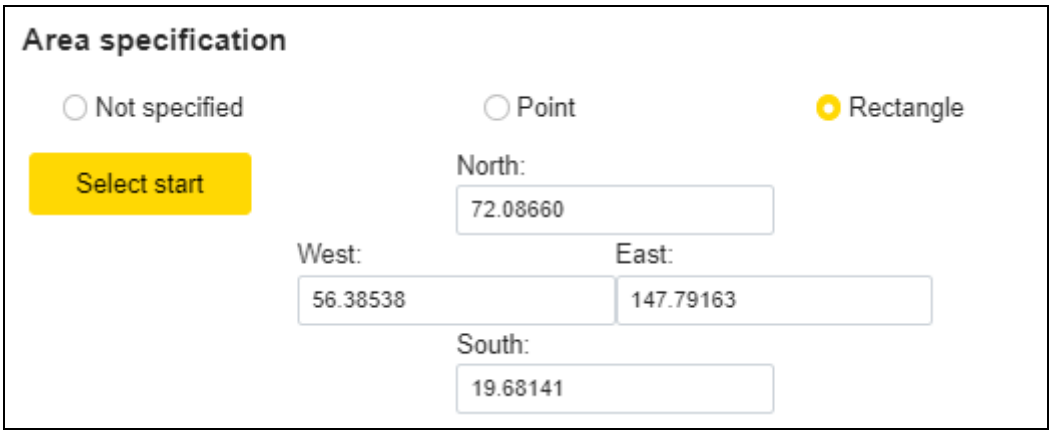


Figure 5-10 Rectangle Specification

Figure 5-11 Map Rectangle Selection

(4) [Version]

Specify whether to include the latest version of the product or the previous generation product in the search target. One of them must be enabled.

(5) [Detail Option]

Set detailed options for more advanced searches.

The observation request ID is an ID issued at the time of applying for observation, and you specify it if you want to search for data you applied for yourself. For how to check the issued observation request ID, please refer to Section 7.2 Observation Request History.

The path number specifies the path number at the start of the first-frame observation. Multiple specifications are possible. For definitions of “path number” and “path number at the start of the first-frame observation,” please refer to Appendix 1.

If you want to specify multiple path numbers, use ',' (comma) as a delimiter and enter the target numbers like '26,28,44'. If you want to specify consecutive path numbers together, use '-' (hyphen) and enter the target numbers like '01-10'.

Figure 5-12 [Detail Option]

(6) [Search] Button

Search for products based on the specified conditions.

Notes:

If the search results exceed the system-set maximum number, only part of the search results will be displayed, and a warning dialog will be shown. Change the search conditions and search again.

5.2.2. List of Search Results

If there are products that match the search criteria, the search results will be displayed as shown in Figure 5-13.

You can operate this screen to check details and download products.

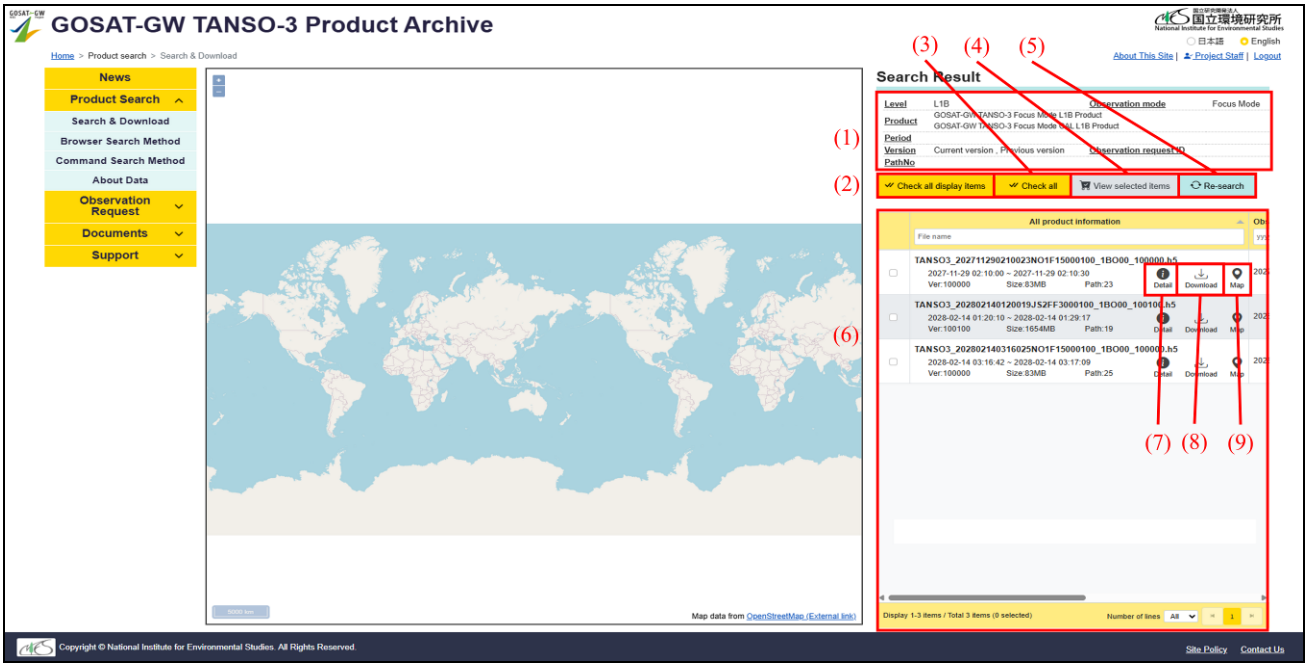


Figure 5-13 Example of Search Results Display 1

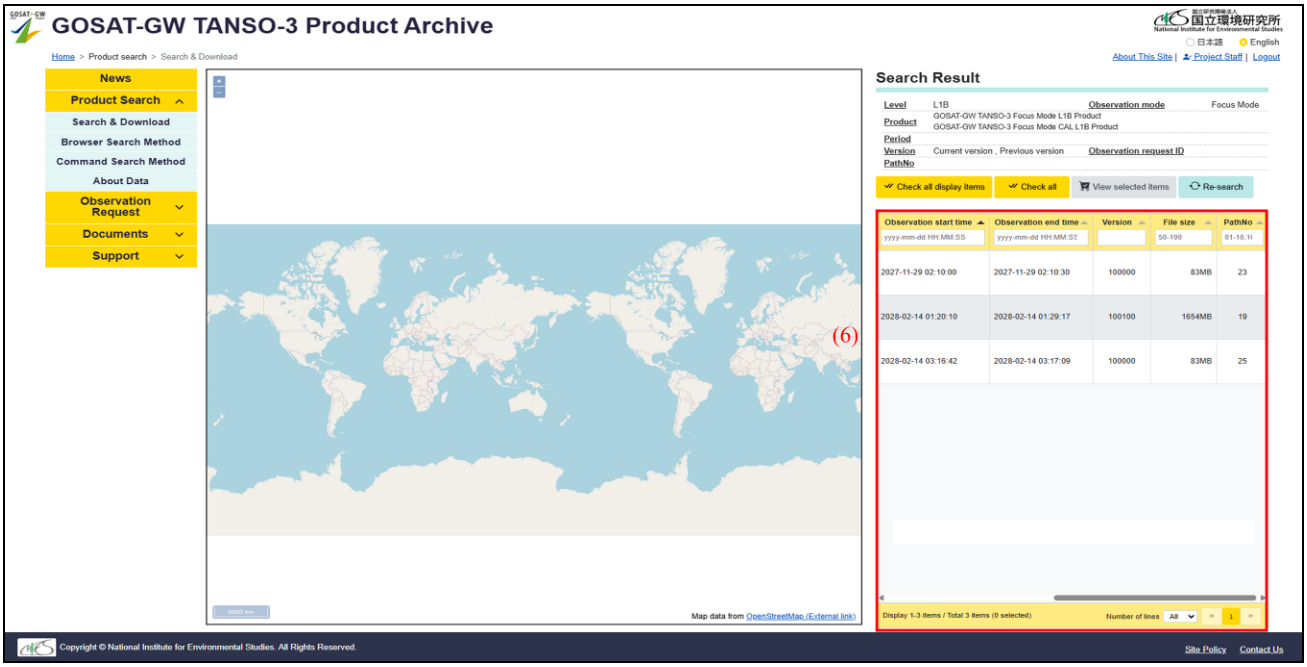


Figure 5-14 Example of Search Results Display 2

If there are no search results, the [Information] dialog shown in Figure 5-15 will be displayed.

Since there are no products that match the current search content, it is necessary to change the search conditions and search again.

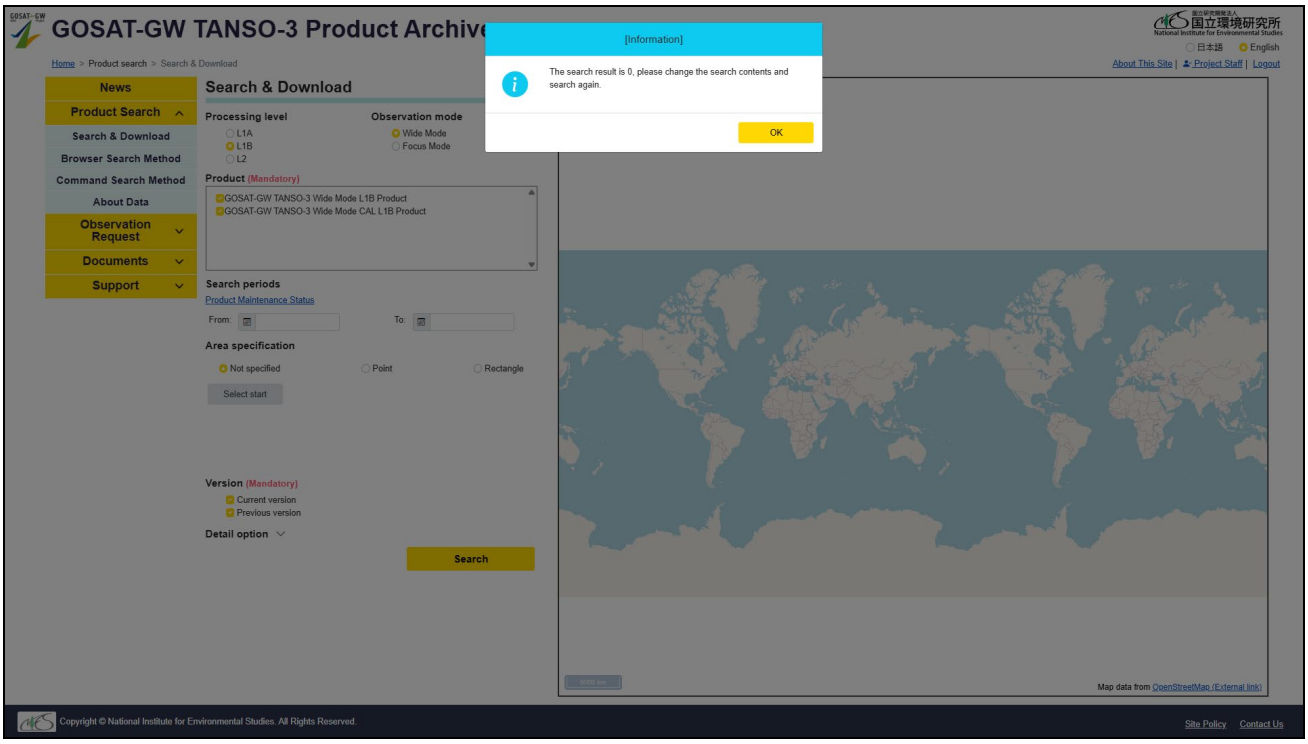


Figure 5-15 [Information] Dialog - No Search Results

(1) [User Search Content] Area

Displays the content of the items set during the search.

(2) [Check all display items] Button

Enables the products currently displayed on the screen as download targets.

Clicking again will exclude the products currently displayed from the download targets.

(3) [Check all] Button

Enables all the products in the search results across multiple pages as download targets.

Clicking again will exclude all the products in the search results from the download targets.

(4) [View selected items] Button

Displays a list of products currently targeted for download.

(5) [Re-search] Button

Discards the current search results and displays the fields to re-enter the search content.

(6) [Search Results List] Area

Displays the search results. It shows the items listed in Table 5.2-1.

Table 5.2-1 Search Results list Item List

Item Name	Description
Product Selection	Clicking a checkbox enables the corresponding product as a download target. Clicking again will exclude the corresponding product from the download targets.
All product information	Displays information about the product as shown below. ● Observation start time ● Observation end time ● Version ● File Size ● The path numbers at the start of the first-frame observation
Observation start time	Displays the observation start time.
Observation end time	Displays the observation end time.
Version	Displays the version.
File size	Displays the file size.
PathNo	Displays the path numbers at the start of the first-frame observation with ',' (comma) as a delimiter.

(7) [Detail] Icon

Clicking it displays the details of the selected product.

Refer to Section 5.2.3 for details.

(8) [Download] Icon

Clicking it starts the download of the selected product.

Refer to Section 5.2.4 for details.

(9) [Map] Icon

Clicking it displays the observation area of the selected product on the map.

5.2.3. Product Details

You can check the details of a product by clicking the [Detail] icon in each item of the search results list.

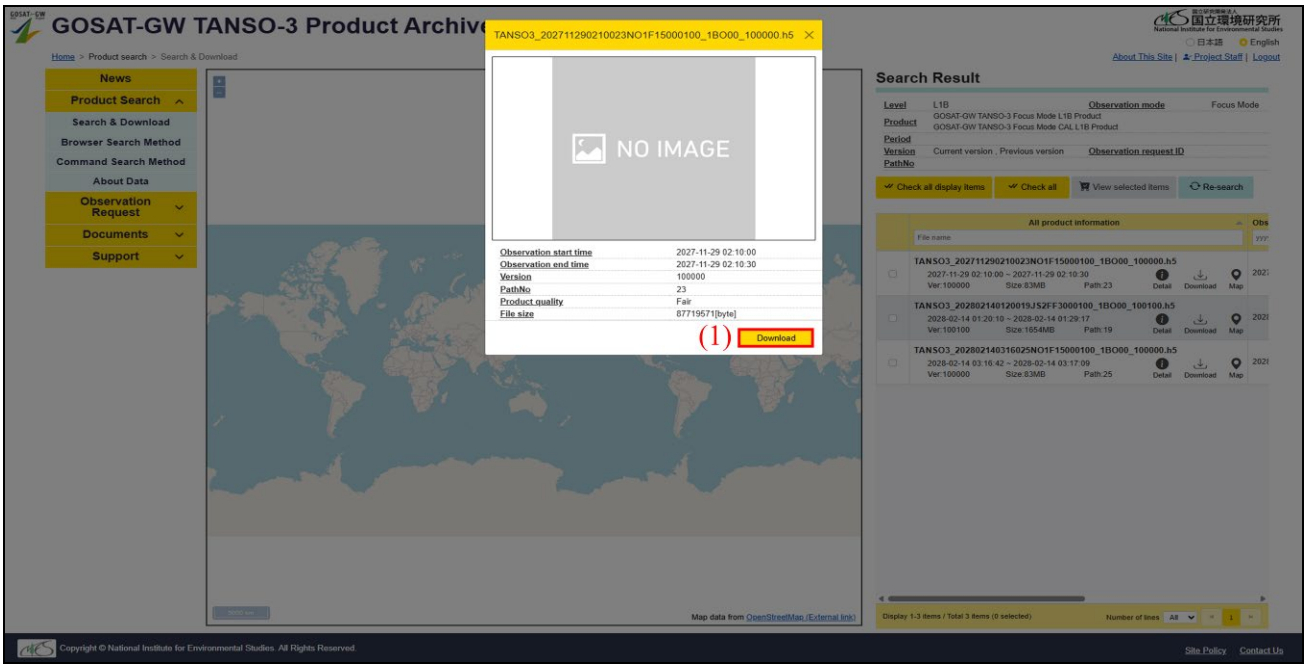


Figure 5-16 Example of Detailed Product Display

(1) [Download] Button

Starts the download of the selected product.

Refer to Section 5.2.4 for details.

5.2.4. Product Download

Products and download scripts can be downloaded from the browser.

The download destination is stored according to the download settings set in the browser being used.

- Downloading a Single File

  For downloading a single file, click the [Download] icon shown in Section 5.2.2 (9) to download the product. Also, click the [Download] button in detailed product display shown in Section 5.2.3 (1) to download the product.

- Downloading Multiple Files

  For downloading multiple files, operate the [Search Results List] area shown in Section 5.2.2 (6), select the files to be downloaded, and click the [View selected items] button. Then, operate the [Selected Files List] screen shown in Figure 5-17 to download. On this occasion, it is necessary to enable Pop-ups and disable checking operation on download in your browser settings. Refer to Section 1.2.1 for details.

The total size of the selected files will be displayed on the screen. Please note that the download may take time depending on the total size and network environment.

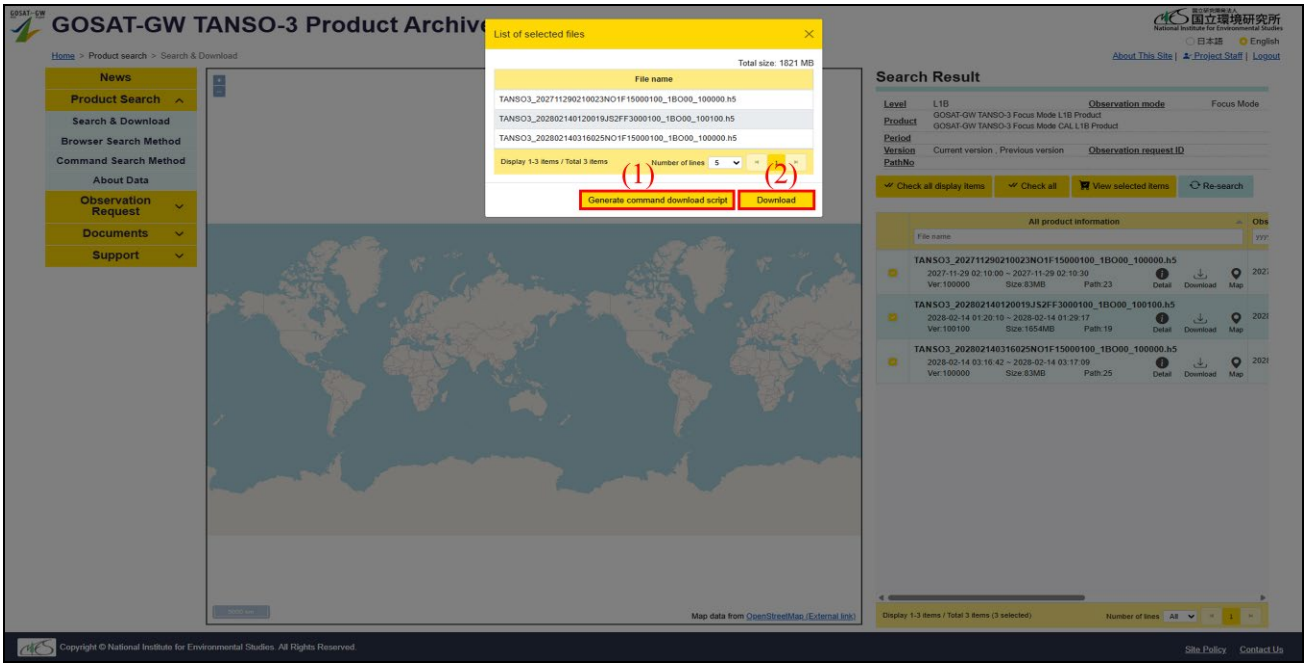


Figure 5-17 [Selected Files List] Screen

(1) [Obtain Download Script] Button

Clicking the [Generate command download script] button outputs a bash script for downloading via command. The script must be executed using a separate command. Refer to Section 5.3.2 for details.

The file name will be Cui download_[random characters].sh.

(2) [Download] Button

Clicking the [Download] button starts the download of the selected product.

Notes:

If the number of simultaneous downloads per user or for the entire service exceeds the system-set limit, a dialog indicating that the download has failed will be displayed. Reduce the number of products to download or try again after a certain period.

5.3. Command Search Methods

This section describes how to search for and download products using commands.

5.3.1. Command Search

To perform a command search, use a command to send an HTTPS request with search parameters to a URL (https://product.gosat-gw.nies.go.jp/product_search/api/cui-search/) that accepts command searches. The search content is determined based on the parameters attached to the request, and the search results are returned.

Command searches also require the transmission of user information, and a cookie containing user information should be attached to the request when sending.

It is recommended to perform command searches using scripts such as bash or Python.

This manual provides examples using the wget command, Python's requests library, and PowerShell.

Notes:

If the search results exceed the system-set maximum number, a message indicating that not all items could be retrieved will be returned. Please change the search criteria and search again.

(1) Parameters

The parameters to be included in the command search request are as follows:

Table 5.3-1 Command Search Parameters

Parameter	Item Name	Description
level	Processing Level	Required item. Specifies the processing level to search. 2: L1B, 3: L2
mode	Observation Mode	Required item. Specifies the observation mode to search. 1: Wide Mode, 2: Focus Mode
product	Product	Required item. Specifies the product name to search. GWT3W_L1B: GOSAT-GW TANSO-3 Wide Mode L1B product GWT3F_L1B: GOSAT-GW TANSO-3 Focus Mode L1B product GWT3W_L2_NO2: GOSAT-GW TANSO-3 Wide Mode L2 product (NO_2) GWT3F_L2_NO2: GOSAT-GW TANSO-3 Focus Mode L2 product (NO_2) GWT3F_L2_NO2_QD: GOSAT-GW TANSO-3 Focus Mode L2 product (NO_2)(Quick report)

Table 5.3-1 Command Search Parameters

Parameter	Item Name	Description
		GWT3W_L2_GHG: GOSAT-GW TANSO-3 Wide Mode L2 product (GHG) GWT3F_L2_GHG: GOSAT-GW TANSO-3 Focus Mode L2 product (GHG) GWT3F_L2_GHG_QD: GOSAT-GW TANSO-3 Focus Mode L2 product (GHG)(Quick report)
format	Format	Specifies the format of the search results. 1: Plain text (default), 2: json, 3: csv
version	Version	Specifies the version to request. 1: Both (default), 2: Current version, 3: Previous version
area	Area Selection Method	Selects the method for area search. 1: None specified (default), 2: Point, 3: Rectangle
start	Start Date of Observation Time Search	Specifies the start date of the observation time range to search. The format is yyyy-mm-dd. If selected, the end date must also be specified.
end	End Date of Observation Time Search	Specifies the end date of the observation time range to search. The format is yyyy-mm-dd. If selected, the start date must also be specified.
path	Path Number	Specifies the path number to search. The path number indicates the path number at the start of the first-frame observation. For definitions of "path number" and "path number at the start of the first-frame observation ", please refer to Appendix 1.
obsreqid	Observation Request ID	Specifies the observation request ID to search.
lat	Latitude	Specifies the latitude to search. Required for point selection. Latitude: -90.000 to 90.000 [deg]
lon	Longitude	Specifies the longitude to search. Required for point selection. Longitude: -180.000 to 180.000 [deg]
nlat	North Latitude	Specifies the north latitude of the rectangle to search. Required for rectangle selection. North Latitude: -90.000 to 90.000 [deg]
wlon	West Longitude	Specifies the west longitude of the rectangle to search. Required for rectangle selection. West Longitude: -180.000 to 180.000 [deg]
slat	South Latitude	Specifies the south latitude of the rectangle to search. Required for rectangle selection. South Latitude: -90.000 to 90.000 [deg]
elon	East Longitude	Specifies the east longitude of the rectangle to search. Required for rectangle selection. East Longitude: -180.000 to 180.000 [deg]

(2) Practical Example (Python)

This example demonstrates how to perform a command search in Python.

This example assumes the use of the requests module, which needs to be installed beforehand.

Here is an script of retrieving search results as user_manual@example.com.

```
import requests
cui_search_url = "https://product.gosat-gw.nies.go.jp/product_search/api/cui-search/"

cookies = {
    "mail": "user_manual@example.com",
    "password": "password"
}
payload = {
    "level": 2,
    "mode": 2,
    "product": "GWT3F_L1B",
    "format":2,
    "version":1,
    "area":1,
    }

urlData = requests.get(cui_search_url, params=payload, cookies=cookies)

if urlData.status_code == requests.codes.ok:
    print(urlData.text)
else:
    urlData.raise_for_status()
```

Notes:

The script requires the password to be entered in plain text.

Please be cautious with the handling of the file.

The script, saved as search.py, is executed, and the product names displayed in the search results are used for command download.

Changing the value of format alters the text format of the search results obtained.

If format is set to 1, the search results will appear as follows.

```
PS C:\gosat-gw> python .\search.py
TANSO3_202402282023010JO1F15000100_1BO00_000000.h5
TANSO3_202402282039013JO1F25000100_1BO00_000000.h5
      TANSO3_202402282041013JO1F35000100_1BO00_000000.h5
```

If format is set to 2, the search results will appear as follows.

```
PS C:\gosat-gw> python .\search.py
{"result": [{"filename": "TANSO3_202402282023010JO1F15000100_1BO00_000000.h5", "obs_start_time": "2024-02-28 20:23:06", "obs_end_time": "2024-02-28 20:24:35", "version": "000000", "path_no": "", "filesize": "195376015", "product_quality": "Good"}, {"filename": "TANSO3_202402282039013JO1F25000100_1BO00_000000.h5", "obs_start_time": "2024-02-28 20:39:40", "obs_end_time": "2024-02-28 20:41:09", "version": "000000", "path_no": "", "filesize": "105139157", "product_quality": "Good"}, {"filename": "TANSO3_202402282041013JO1F35000100_1BO00_000000.h5", "obs_start_time": "2024-02-28 20:41:12", "obs_end_time": "2024-02-28 20:42:41", "version": "000000", "path_no": "", "filesize": "76797525", "product_quality": "Good"}]}
```

If format is set to 3, the search results will appear as follows.

```
PS C:\gosat-gw> python .\search.py
filename,obs_start_time,obs_end_time,version,filesize,product_quality
TANSO3_202402282023010JO1F15000100_1BO00_000000.h5,2024-02-28 20:23:06,2024-02-28 20:24:35,000000,195376015,Good
TANSO3_202402282039013JO1F25000100_1BO00_000000.h5,2024-02-28 20:39:40,2024-02-28 20:41:09,000000,105139157,Good
TANSO3_202402282041013JO1F35000100_1BO00_000000.h5,2024-02-28 20:41:12,2024-02-28 20:42:41,000000,76797525,Good
```

(3) Search Practice Example (bash)

Here is an example of practicing command search in bash.

In this example, wget is used to save the search result text information, so it is necessary that wget is available.

Also, since it is an HTTPS access, SSL support is required.

Here is an example of retrieving search results as user_manual@example.com.

Notes:

The contents of the tmpcookie.txt file need to be tab-separated.

```
#! /bin/bash

echo "===== process start ====="

# Delete temporary file.
function finish {
  rm -rf "tmpcookie.txt"
}
trap finish EXIT

# Save user information to text file.
cat <<EOF > tmpcookie.txt
product.gosat-gw.nies.go.jp    FALSE   /       FALSE   0       password        password
product.gosat-gw.nies.go.jp    FALSE   /       FALSE   0       mail    user_manual@exam
ple.com
EOF

# URL for download
cui_url="https://product.gosat-gw.nies.go.jp/product_search/api/cui-search/"

# Set search criteria to parameters
parameter="level=2&mode=2&product=GWT3F_L1B&format=1"

echo "------ cui search start ------"
```

```
if command -v wget >/dev/null 2>&1; then

  query=${cui_url}"?"${parameter}
  # command wget
  wget --load-cookies "tmpcookie.txt"  --output-document result.txt --  $query

  status=$?
  if [ ${status} -ne 0 ]; then
    echo "search fail"
  fi

else
    exit_with_error "Error: Could not find a command-line downloader.  Please install
wget"
fi

echo "===== process end ====="
exit
```

The script mentioned earlier is saved as command_search.sh and executed as shown below.

The search results are saved in result.txt. The name of the product stored is used in the command download.

```
bash command_search.sh
===== process start =====
------ cui search start ------
--2023-07-21 04:29:39-- https://product.gosat-gw.nies.go.jp/product_search/api/cui-search/?level=2&mode=2&product=GWT3F_L1B&format=1
Connecting to IP address of the connection point... connected.
HTTP request sent, awaiting response... 200 OK
Length: 153 [text/plain]
Saving to: `result.txt'

result.txt
100%[==========================================================================================>]  153  --.-KB/s  in 0s

2023-07-21 04:29:39 (27.3 MB/s) - `result.txt' saved [153/153]
```

Like Python, you can change the text format of the search results by changing the number of the format.

In this example, the format is set to 1, resulting in the following search results.

```
TANSO3_202402282023010JO1F15000100_1BO00_000000.h5
TANSO3_202402282039013JO1F25000100_1BO00_000000.h5
TANSO3_202402282041013JO1F35000100_1BO00_000000.h5
```

(4) Search Practice Example (PowerShell)

Here is an example of practicing command search in PowerShell.

Also, since it is an HTTPS access, SSL support is required.

Here is an example of retrieving search results as user_manual@example.com.

```
$search_url = "https://product.gosat-gw.nies.go.jp/product_search/api/cui-search/"

# Set user information
$mail = " user_manual@example.com "
$pass = "password"



# Configure coolie cookie
$baseurl = "product.gosat-gw.nies.go.jp"
$session = New-Object -TypeName Microsoft.PowerShell.Commands.WebRequestSession

$password_cookie = New-Object -TypeName System.Net.Cookie
$mail_cookie = New-Object -TypeName System.Net.Cookie

$password_cookie.Name = 'password'
$password_cookie.value = $pass
$mail_cookie.Name = 'mail'
$mail_cookie.value = $mail

$session.Cookies.Add($baseurl, $password_cookie)
$session.Cookies.Add($baseurl, $mail_cookie)

# Set search criteria to parameter
$search_param = "?level=2&mode=2&product=GWT3F_L1B&format=1"

Invoke-WebRequest -Uri $search_url$search_param -WebSession $session
```

The result of executing the script named search.ps1 is as follows.

```
PS C:\test\testscripts> .\search.ps1


StatusCode        : 200
StatusDescription : OK
Content           : TANSO3_202402282023010JO1F15000100_1BO00_001000.h5
                    TANSO3_202402282039013JO1F25000100_1BO00_001000.h5
                    TANSO3_202402282041013JO1F35000100_1BO00_001000.h5

RawContent        : HTTP/1.1 200 OK
                    Strict-Transport-Security: max-age=63072000
                    X-Frame-Options: DENY, SAMEORIGIN, SAMEORIGIN
                    Content-Language: ja
                    Vary: Cookie
                    X-Content-Type-Options: nosniff
                    Referrer-Policy: same-...
Forms             : {}
Headers           : {[Strict-Transport-Security, max-age=63072000], [X-Frame-Options, DENY, SAMEORIGIN,
SAMEORIGIN], [C
                    ontent-Language, ja], [Vary, Cookie]...}
Images            : {}
InputFields       : {}
Links             : {}
ParsedHtml        : mshtml.HTMLDocumentClass
RawContentLength  : 153
```

5.3.2. Download by Command

To download by command, you need to send a request to the URL (https://product.gosat-gw.nies.go.jp/product_search/api/cui-download/) that accepts downloads, with parameters related to the file you want to obtain.

The request will determine the required file from the parameters provided and start the download.

Downloading by command also requires sending user information, and a cookie containing user information should be attached to the request.

It is recommended to perform downloads by command using scripts such as bash, python, etc.

(1) Parameters

The parameters to be included in the request for download by command are as follows:

Table 5.3-2 Command Search Parameters

Parameter	Item Name	Description
filename	Filename	This is a required field. Specify the filename for which to request a download.

Notes:

If the number of simultaneous downloads per user or for the entire service exceeds the system-set limit, a message indicating that the download has failed will be returned. Please try reducing the number of products to download or try again after a certain period.

(2) Download Practice Example (python)

Here is an example of practicing download by command in python.

This example assumes the use of the additional module requests, so prior installation is necessary.

The script to retrieve TANSO3_20240228202301OJO1F15000100_1BO00_000000.h5 as user_manual@example.com is as follows.

By listing the obtained product name in filelist, you can perform the download of the target product.

```
import requests
cui_download_url = "https://product.gosat-gw.nies.go.jp/product_search/api/cui-downlo
ad/"
cookies = {
    "mail": "user_manual@example.com",
    "password": "password"
    }
filelist = [
    "TANSO3_20240228202301OJO1F15000100_1BO00_000000.h5"
    ]

for filename in filelist:
    payload = {"filename": filename}
    urlData = requests.get(cui_download_url, stream=True, params=payload,
cookies=cookies)
    if urlData.status_code == requests.codes.ok:
        with open(filename, 'wb') as f:
            for chunk in urlData.iter_content(chunk_size=4096):
                if chunk:
                    f.write(chunk)
                    f.flush()
    else:
        urlData.raise_for_status()
```

Notes:

The script requires entering the password in plain text.

Please be careful with the handling of the listed files.

The script mentioned earlier is saved as download.py and executed as shown below.

As a result of executing the download script, the product specified in the filelist is obtained in the same hierarchy as the script.

```
PS C:\gosat-gw> python download.py
PS C:\gosat-gw> ls
Directory: C:\gosat-gw
Mode        LastWriteTime        Length    Name
----        -------------        ------    ----
-a----      2023/05/22           14:30     873         download.py
-a----      2023/05/22           14:30     195376015
            TANSO3_20240228202301OJO1F15000100_1BO00_000000.h5
```

(3) Download Example Using Download Script

Here is an example of executing a download using the download script obtained in 5.2.4(1).

The download script uses wget for downloading, so wget must be available.

Also, since it is an HTTPS access, SSL support is required.

The sample download script is as follows.

By changing the name stored in the file list variable, you can use it as a script to download another product.

Notes:

The contents of the tmpcookie.txt file need to be tab-separated.

```
#! /bin/bash

echo "===== process start ====="

# "downloadpath" is a directory where downloaded files will be stored.
# If you want to change the local storage location, please specify the directory.
downloadpath="."


function finish {
  rm -rf "tmpcookie.txt"
}
trap finish EXIT

# "tmpcookie.txt" is a cookie file which will be sent to the server for user authentication.
# You need to replace the "password here" with your own password.
cat <<EOF > tmpcookie.txt
product.gosat-gw.nies.go.jp    FALSE   /       FALSE   0       password        password
product.gosat-gw.nies.go.jp    FALSE   /       FALSE   0       mail    user_manual@example.com
EOF

cui_url="https://product.gosat-gw.nies.go.jp/product_search/api/cui-download/"

errlist=""
```

```
cui_download(){
  echo "------ cui download start ------"
  if command -v wget >/dev/null 2>&1; then
    while read -r line; do

        filename="${line}"
        query=${cui_url}"?filename="${line}

        echo ${filename}

        wget --load-cookies "tmpcookie.txt" --output-document ${filename} -- $query >
/dev/null

        status=$?
        if [ ${status} -ne 0 ]; then
          echo "download fail"
          errlist=${errlist}${filename},
        fi
    done;
  else
      exit_with_error "Error: Could not find a command-line downloader.  Please
install wget"
  fi
}

cui_download << 'PRODUCTLIST'
${file_list}
PRODUCTLIST

echo "---- download fail list -----"
echo ${errlist}

echo "===== process end ====="
exit
```

The result of executing the download script is shown below.

By default, the specified product is obtained in the same hierarchy as the script.

You can change the download path by modifying the downloadpath.

```
bash cui_download_6a263ba6-a2f5-4e4d-960f-a9cbe7e47da2.sh
===== process start =====
------ cui download start ------
TANSO3_202402282023010JO1F15000100_1BO00_000000.h5
--2023-07-20 03:12:51--
https://product.gosat-gw.nies.go.jp/product_search/api/cui-
download/?filename=TANSO3_202402282023010JO1F15000100_1BO00_000000.h5
Connecting to IP address of the connection point... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [application/octet-stream]
Saving to: `TANSO3_202402282023010JO1F15000100_1BO00_000000.h5'

TANSO3_202402282023010JO1F15000100_1BO00_00000
[            <=>                                                    ] 186.32M  65.5MB/s                    in 2.8s

2023-07-20 03:12:54 (65.5 MB/s) - `TANSO3_202402282023010JO1F15000100_1BO00_000000.h5' saved
[195376015]

・・・Omitted as the results of the wget implementation are repeated for the file.

---- download fail list -----

===== process end =====
```

Also, by modifying part of the download script code, it is possible to read the result.txt saved in 5.3.1(3) and perform the download.

The example is as follows.

This example assumes that result.txt is placed in the same hierarchy.

Notes:

The contents of the tmpcookie.txt file need to be tab-separated.

```
#! /bin/bash

echo "===== process start ====="

# "downloadpath" is a directory where downloaded files will be stored.
# If you want to change the local storage location, please specify the directory.
downloadpath="."


function finish {
  rm -rf "tmpcookie.txt"
}
trap finish EXIT

# "tmpcookie.txt" is a cookie file which will be sent to the server for user authentication.
# You need to replace the "password here" with your own password.
cat <<EOF > tmpcookie.txt
product.gosat-gw.nies.go.jp    FALSE   /       FALSE   0       password        password
product.gosat-gw.nies.go.jp    FALSE   /       FALSE   0       mail    user_manual@example.com
EOF

cui_url="https://product.gosat-gw.nies.go.jp/product_search/api/cui-download/"

errlist=""
```

```
echo "------ cui download start ------"
if command -v wget >/dev/null 2>&1; then
  while read line;
    do

        filename="${line}"
        query=${cui_url}"?filename="${line}

        echo ${filename}

        # command wget a
        wget --load-cookies "tmpcookie.txt" --output-document ${filename} -- $query >
/dev/null

        status=$?
        if [ ${status} -ne 0 ]; then
          echo "download fail"
          errlist=${errlist}${filename},
        fi
    done < result.txt;
else
   exit_with_error "Error: Could not find a command-line downloader.  Please install
wget"
fi

echo "---- download fail list -----"
echo ${errlist}


echo "===== process end ====="
exit
```

(4) Download Practice Example (PowerShell)

Here is an example of practicing download by command in PowerShell.

The script to retrieve TANSO3_202402282023010JO1F15000100_1BO00_000000.h5 as user_manual@example.com is as follows.

```
$download_url = "https://product.gosat-gw.nies.go.jp/product_search/api/cui-download/
"

# Set search criteria to parameter
$mail = " user_manual@example.com "
$pass = "password"


# Configure coolie cookie
$baseurl = "https://product.gosat-gw.nies.go.jp"
$session = New-Object -TypeName Microsoft.PowerShell.Commands.WebRequestSession

$password_cookie = New-Object -TypeName System.Net.Cookie
$mail_cookie = New-Object -TypeName System.Net.Cookie

$password_cookie.Name = 'password'
$password_cookie.value = $pass
$mail_cookie.Name = 'mail'
$mail_cookie.value = $mail

$session.Cookies.Add($baseurl, $password_cookie)
$session.Cookies.Add($baseurl, $mail_cookie)

# Set search criteria to parameter
$download_param = "?filename= TANSO3_202402282023010JO1F15000100_1BO00_000000.h5"

# The downloadpath of download file
$download_path =  ".\ TANSO3_202402282023010JO1F15000100_1BO00_000000.h5"


Invoke-WebRequest -Uri $download_url$download_param -WebSession $session -OutFile
$download_path
```

The result of executing the script named download.ps1 is as follows.

```
PS C:\test\testscripts> .\download.ps1
PS C:\test\testscripts> dir

    Directory: C:\test\testscripts

Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        2023/10/04     14:03            987 download.ps1
-a----        2023/10/04     13:52            815 search.ps1
-a----        2023/10/04     14:05      195376015 TANSO3_20240228202301OJO1F15000100_1BO00_000000.h5
```

6. User Registration (Authorized Users)

This chapter explains the procedure for user registration for authorized users.

To acquire the product, user registration is necessary. There are two types of users who can acquire the product: "General Users" and "Authorized Users". Within this service, "Authorized Users" refers to the principal individuals who satisfy the qualification criteria described in Section 1.3.1.

Notes:

Authorized Users are defined as the principal individuals who satisfy the qualification criteria described in Section 1.3.1. Those who do not fit these categories cannot apply.

If you are not eligible as an Authorized User, your application will be rejected.

(1) The process from being a guest user to becoming an authorized user is as follows:

Acquire the URL for Authorized User registration [Section 6.1]

↓ ・Access the URL for the Authorized User registration

Review the Terms of Use [Section 6.1.1]

↓ ・Click the [Agree] button

Apply for Authorized User Registration [Section 6.1.2]

↓ ・Click the [Confirm] button

Receive the registration confirmation e-mail [Section 6.1.3]

↓ ・Access the URL provided in the registration confirmation e-mail

General User Registration Complete [Section 6.1.3]

↓ ・Approval by the Ministry of the Environment, NIES officials

Authorized User Registration Complete [Section 6.1.3]

(2) The process from being a general user to becoming an authorized user is as follows:

Have a general user account

↓

Acquire the URL for Authorized User registration [Section 6.2]

↓ ・Access the URL for Authorized User registration

Review the Terms of Use [Section 6.2.1]

↓ ・Click the [Agree] button

Enter the Authorized User Registration Application [Section 6.2.2]

↓ ・Click the [Confirm] button

↓ ・Approval by the Ministry of the Environment, NIES officials

Authorized User Registration Complete [Section 6.2.3]

6.1. Applying for Authorized User Registration as a Guest User <Target: Guest Users>

This section explains the procedure for registering as an authorized user.

Notes:

Authorized Users are defined as the principal individuals who satisfy the qualification criteria described in Section 1.3.1. Those who do not fit these categories cannot apply.

If you are nosst eligible as an Authorized User, your application will be rejected.

Authorized User registration applications cannot be made from the menu. If you are eligible to apply as an Authorized User, please consult the guidance page on the GOSAT-GW project website regarding Authorized User Applications (https://gosat-gw.nies.go.jp/en/request.html) and follow the instructions provided to submit your application. If your Authorized User Application is approved, you will receive the URL for the Authorized User registration application.

6.1.1. Confirmation of Terms of Use

This section describes the procedures to be followed after accessing the URL for the Authorized User registration application.

If you agree with the content of the Terms of Use, click the [Agree] button.

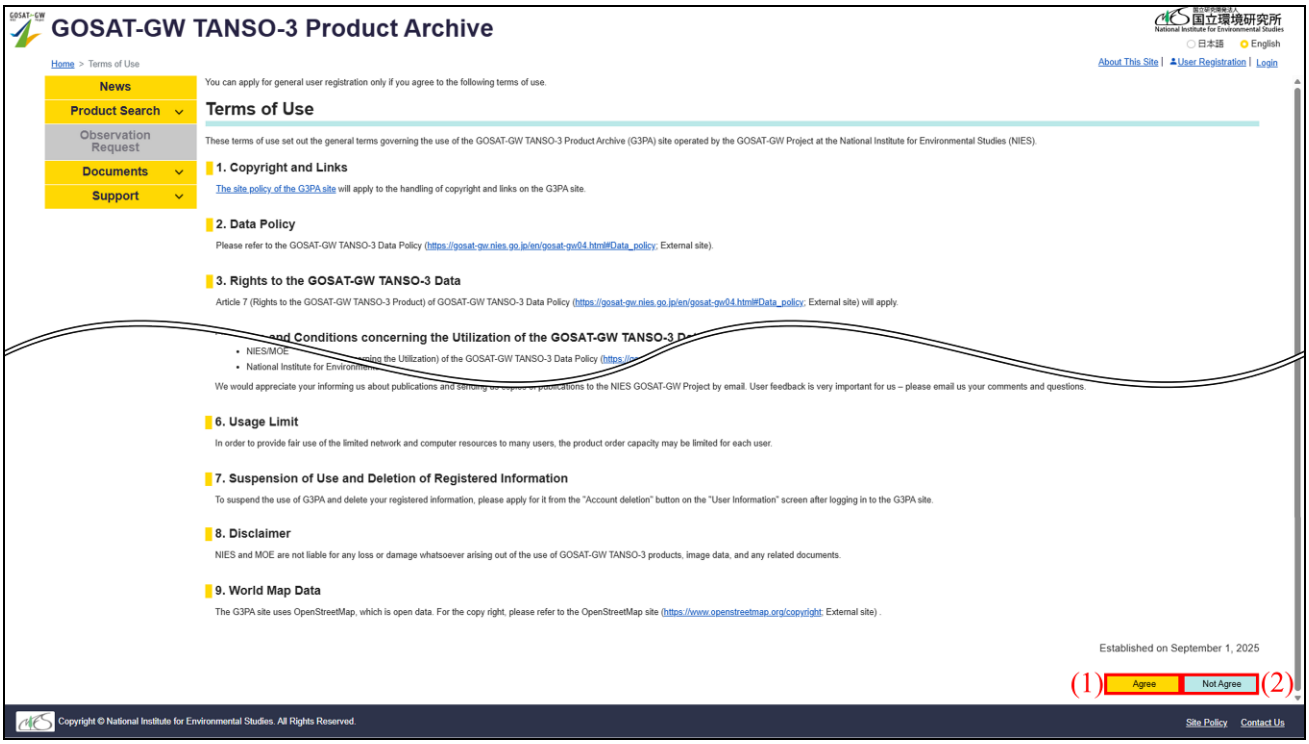


Figure 6-1 [Terms of Use] Screen

(1) [Agree] Button

Displays the [Authorized User Registration Application] screen.

(2) [Not Agree] Button

Transitions to the [Home] screen.

6.1.2. Authorized User Registration Application

6.1.2.1. Input of User Information

Enter user information and click the [Confirm] button.

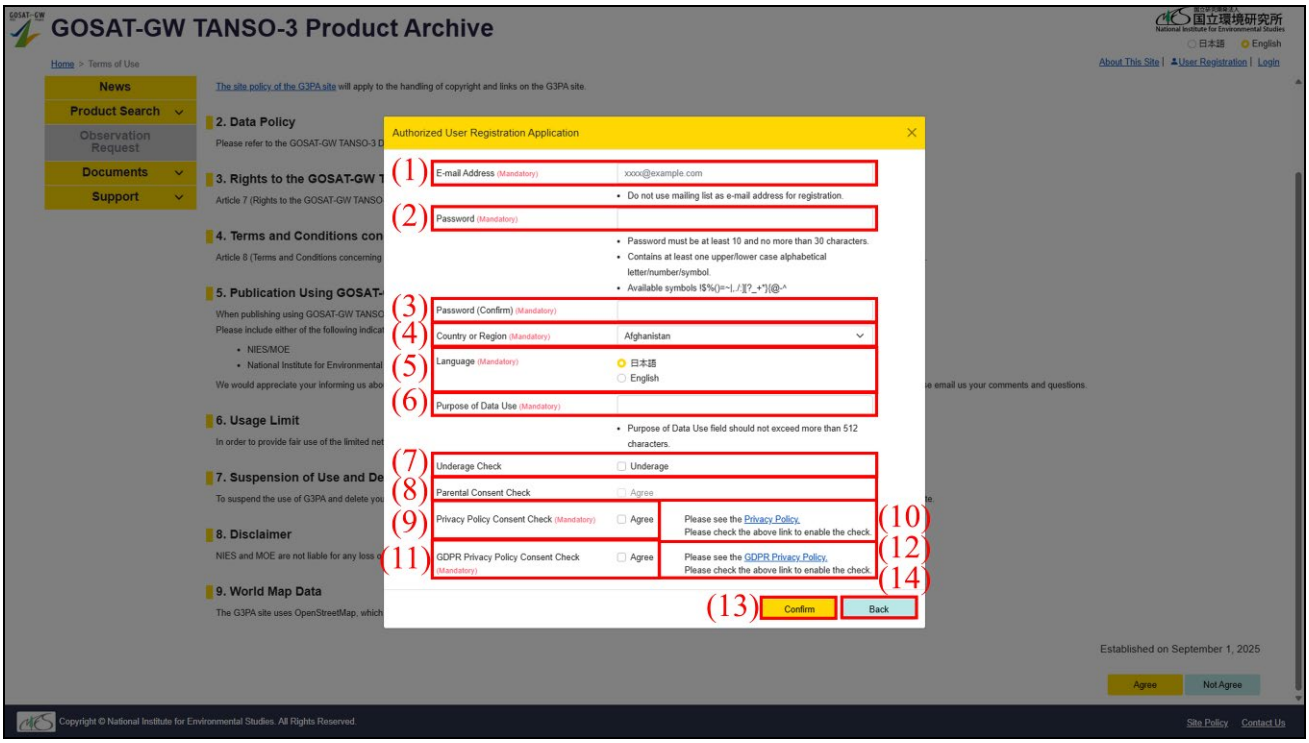


Figure 6-2 [Authorized User Registration Application] Screen

(1) [E-mail Address]

Enter an e-mail address of up to 256 characters. Do not use a mailing list for the registered e-mail address.

(2) [Password]

Enter a password. The conditions for setting a password are as follows:

- Password must be at least 10 and no more than 30 characters.
- Contains at least one upper/lower case alphabetical letter/number/symbol.
- Available symbols !$%()=~|,./:][?_+*}{@-^

Avoid using the same password as other internet services.

(3) [Password (Confirm)]

Re-enter the password for confirmation.

(4) [Country or Region]

Select a country or region.

(5) [Language]

Select Japanese or English. This will be used for the language of e-mail notifications and the display language after logging in.

(6) [Purpose of Data Use]

Enter the purpose of data use in up to 512 characters.

(7) [Underage Check]

Check this box if you are an underage.

(8) [Parental Consent Check]

This becomes available when the Underage Check is selected. Underages must have parental consent.

Notes:

For the definition of underages and parental consent, please refer to the privacy policy in Section 1.1.

(9) [Privacy Policy Consent Check]

After confirming the content on the [Privacy Policy] screen accessed from the [Privacy Policy] link, you can check this box.

(10) [Privacy Policy] Link

Opens the [Privacy Policy] screen in a separate browser tab.

(11) [GDPR Privacy Policy Consent Check]

After confirming the content on the [GDPR Privacy Policy] screen accessed from the [GDPR Privacy Policy] link, you can check this box.

(12) [GDPR Privacy Policy] Link

Opens the [GDPR Privacy Policy] screen in a separate browser tab.

(13) [Confirm] Button

Displays the [Authorized User Registration Application Confirm] screen.

(14) [Back] Button

Cancels the authorized user registration application and closes the [Authorized User Registration Application] screen.

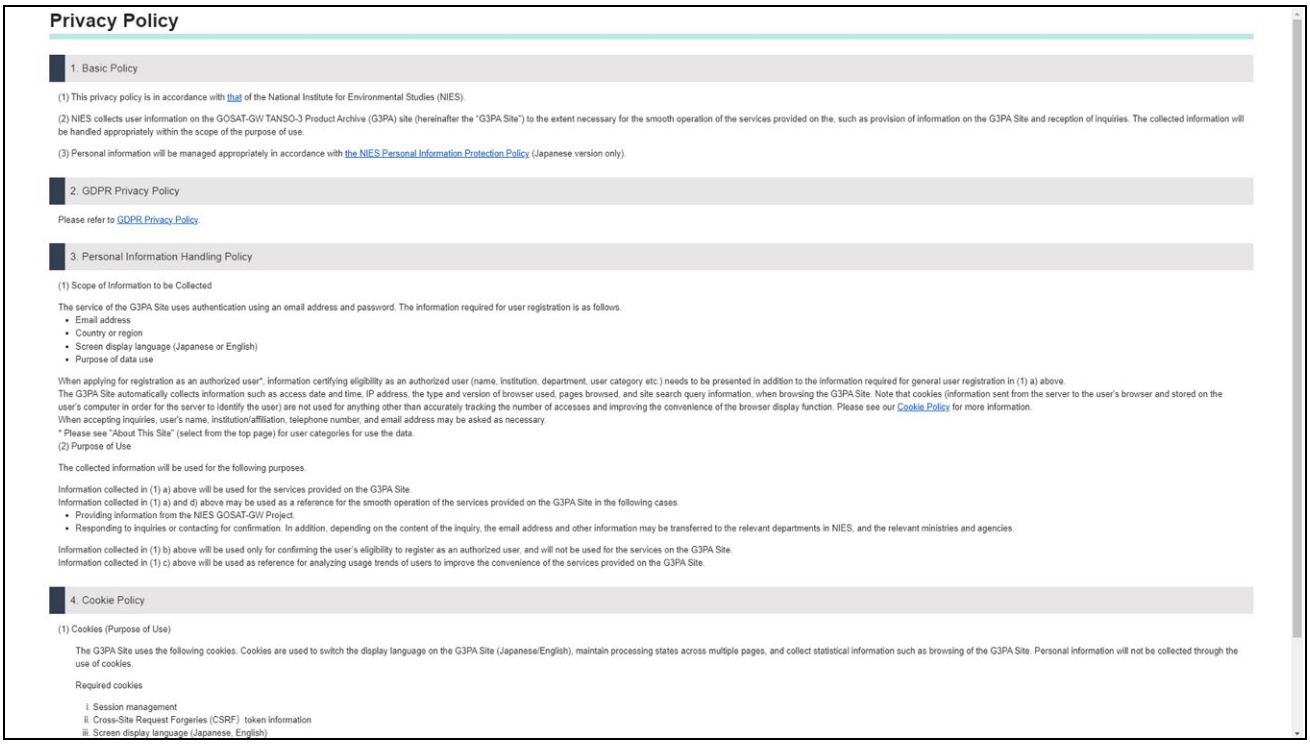


Figure 6-3 [Privacy Policy] Screen 1

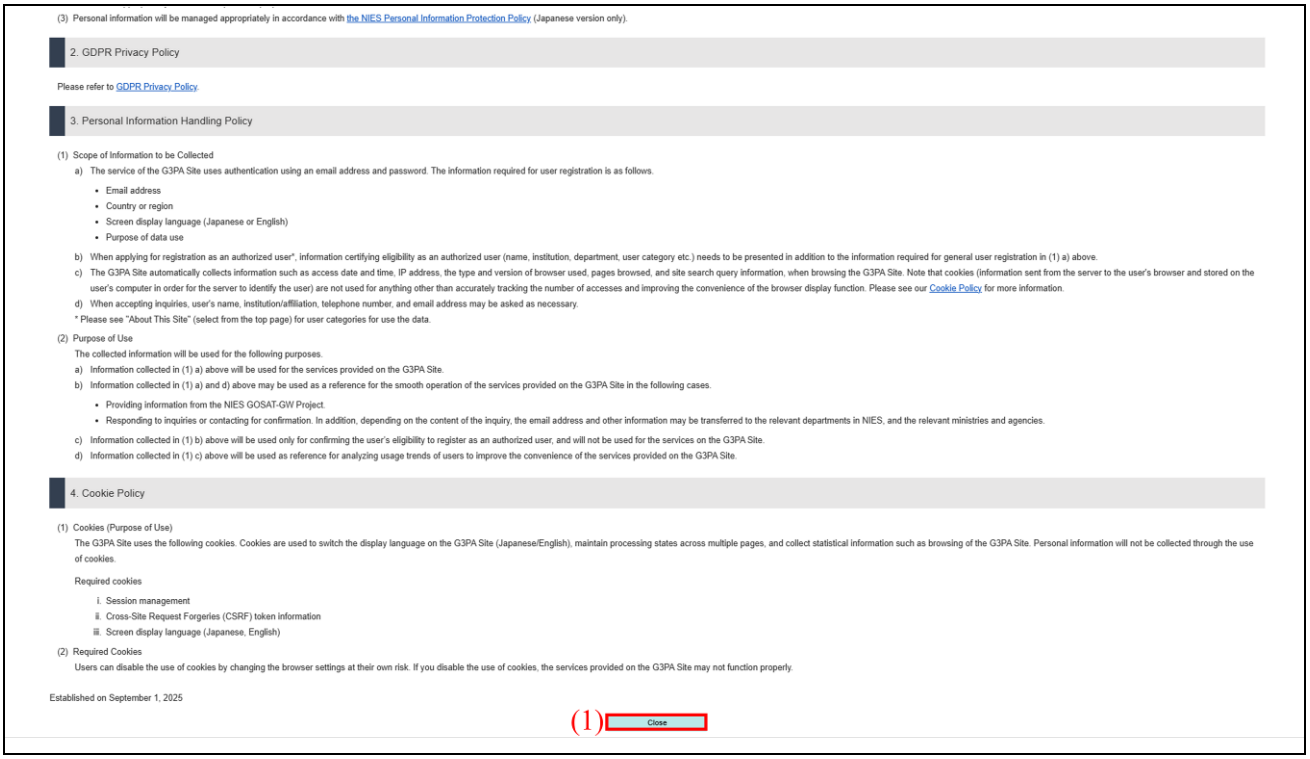
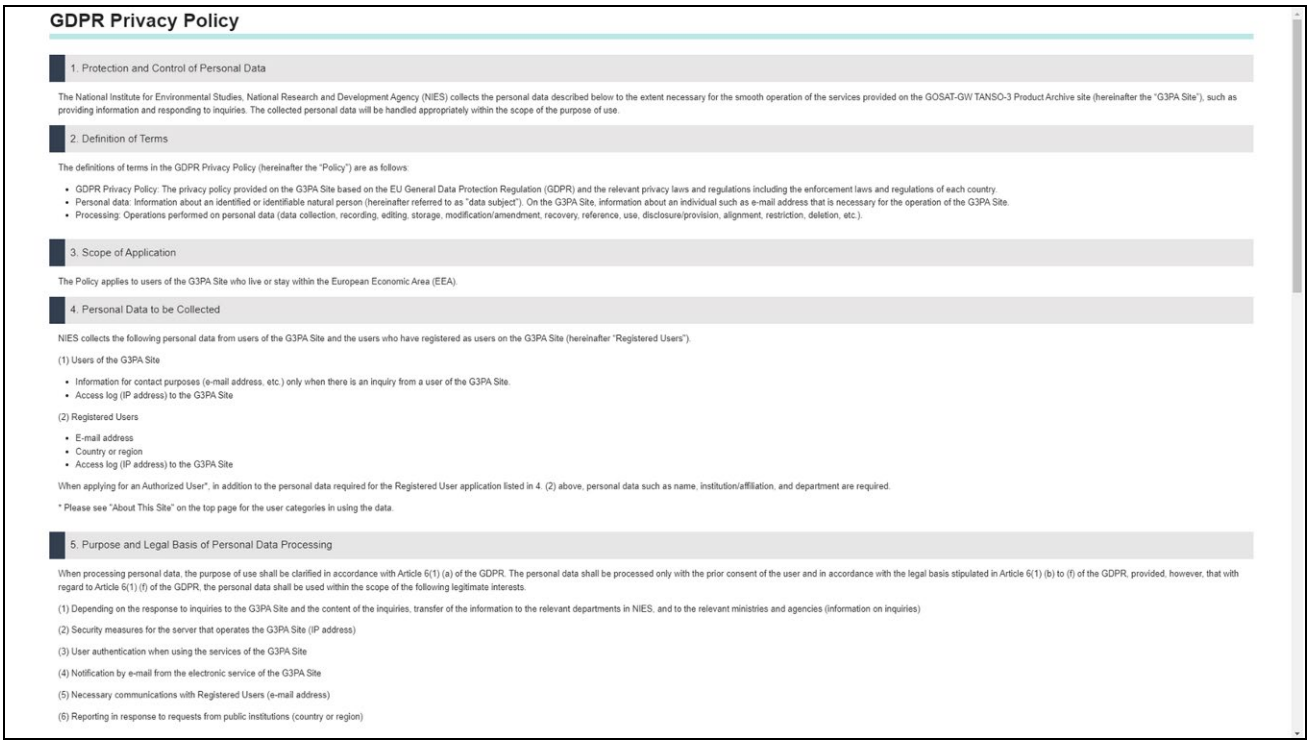


Figure 6-4 [Privacy Policy] Screen 2

(1) [Close] Button

Closes the [Privacy Policy] screen in the open browser tab.



GDPR Privacy Policy

1. Protection and Control of Personal Data

The National Institute for Environmental Studies, National Research and Development Agency (NIES) collects the personal data described below to the extent necessary for the smooth operation of the services provided on the GOSAT-GW TANSO-3 Product Archive site (hereinafter the "G3PA Site"), such as providing information and responding to inquiries. The collected personal data will be handled appropriately within the scope of the purpose of use.

2. Definition of Terms

The definitions of terms in the GDPR Privacy Policy (hereinafter the "Policy") are as follows:

- GDPR Privacy Policy: The privacy policy provided on the G3PA Site based on the EU General Data Protection Regulation (GDPR) and the relevant privacy laws and regulations including the enforcement laws and regulations of each country.
- Personal data: Information about an identified or identifiable natural person (hereinafter referred to as "data subject"). On the G3PA Site, information about an individual such as e-mail address that is necessary for the operation of the G3PA Site.
- Processing: Operations performed on personal data (data collection, recording, editing, storage, modification/amendment, recovery, reference, use, disclosure/provision, alignment, restriction, deletion, etc.).

3. Scope of Application

The Policy applies to users of the G3PA Site who live or stay within the European Economic Area (EEA).

4. Personal Data to be Collected

NIES collects the following personal data from users of the G3PA Site and the users who have registered as users on the G3PA Site (hereinafter "Registered Users").

(1) Users of the G3PA Site

- Information for contact purposes (e-mail address, etc.) only when there is an inquiry from a user of the G3PA Site.
- Access log (IP address) to the G3PA Site

(2) Registered Users

- E-mail address
- Country or region
- Access log (IP address) to the G3PA Site

When applying for an Authorized User", in addition to the personal data required for the Registered User application listed in 4. (2) above, personal data such as name, institution/affiliation, and department are required.

* Please see "About This Site" on the top page for the user categories in using the data.

5. Purpose and Legal Basis of Personal Data Processing

When processing personal data, the purpose of use shall be clarified in accordance with Article 6(1) (a) of the GDPR. The personal data shall be processed only with the prior consent of the user and in accordance with the legal basis stipulated in Article 6(1) (b) to (f) of the GDPR, provided, however, that with regard to Article 6(1) (f) of the GDPR, the personal data shall be used within the scope of the following legitimate interests.

(1) Depending on the response to inquiries to the G3PA Site and the content of the inquiries, transfer of the information to the relevant departments in NIES, and to the relevant ministries and agencies (information on inquiries)

(2) Security measures for the server that operates the G3PA Site (IP address)

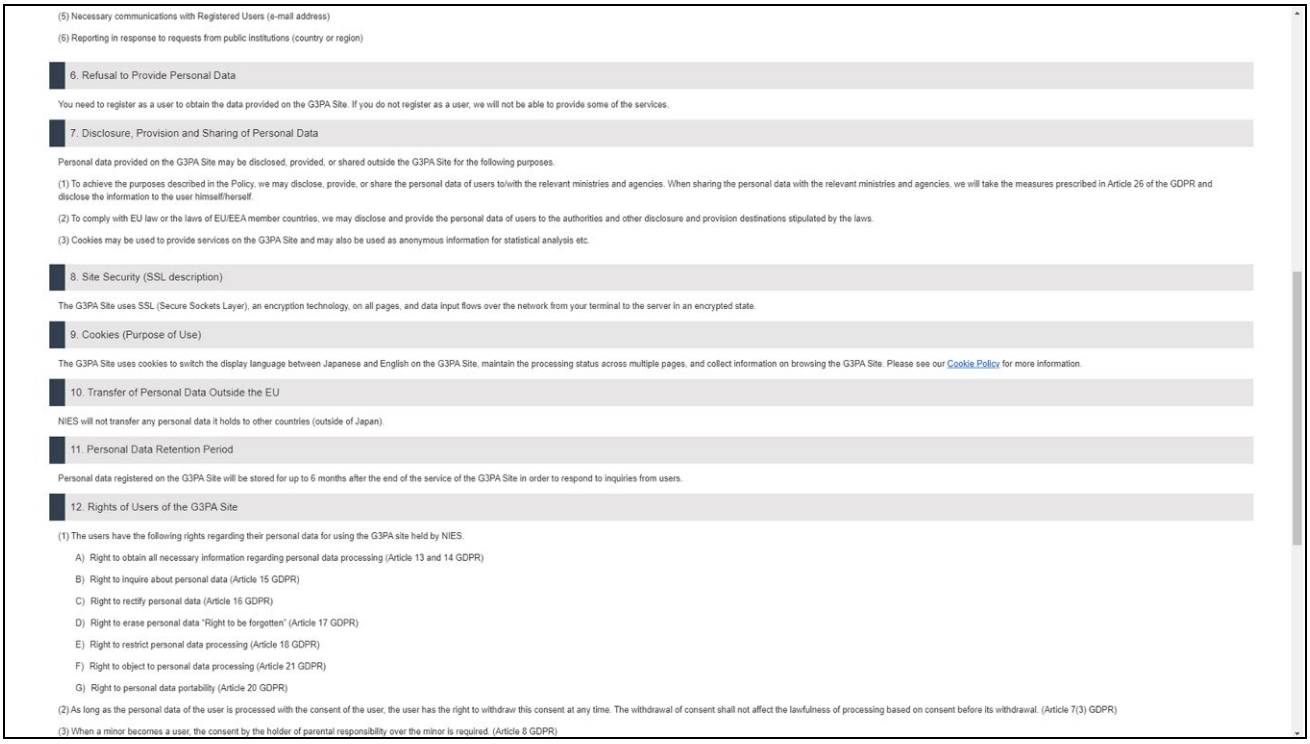
(3) User authentication when using the services of the G3PA Site

(4) Notification by e-mail from the electronic service of the G3PA Site

(5) Necessary communications with Registered Users (e-mail address)

(6) Reporting in response to requests from public institutions (country or region)

Figure 6-5 [GDPR Privacy Policy] Screen 1



(5) Necessary communications with Registered Users (e-mail address)

(6) Reporting in response to requests from public institutions (country or region)

6. Refusal to Provide Personal Data

You need to register as a user to obtain the data provided on the G3PA Site. If you do not register as a user, we will not be able to provide some of the services.

7. Disclosure, Provision and Sharing of Personal Data

Personal data provided on the G3PA Site may be disclosed, provided, or shared outside the G3PA Site for the following purposes.

(1) To achieve the purposes described in the Policy, we may disclose, provide, or share the personal data of users to/with the relevant ministries and agencies. When sharing the personal data with the relevant ministries and agencies, we will take the measures prescribed in Article 26 of the GDPR and disclose the information to the user himself/herself.

(2) To comply with EU law or the laws of EU/EEA member countries, we may disclose and provide the personal data of users to the authorities and other disclosure and provision destinations stipulated by the laws.

(3) Cookies may be used to provide services on the G3PA Site and may also be used as anonymous information for statistical analysis etc.

8. Site Security (SSL description)

The G3PA Site uses SSL (Secure Sockets Layer), an encryption technology, on all pages, and data input flows over the network from your terminal to the server in an encrypted state.

9. Cookies (Purpose of Use)

The G3PA Site uses cookies to switch the display language between Japanese and English on the G3PA Site, maintain the processing status across multiple pages, and collect information on browsing the G3PA Site. Please see our Cookie Policy for more information.

10. Transfer of Personal Data Outside the EU

NIES will not transfer any personal data it holds to other countries (outside of Japan).

11. Personal Data Retention Period

Personal data registered on the G3PA Site will be stored for up to 6 months after the end of the service of the G3PA Site in order to respond to inquiries from users.

12. Rights of Users of the G3PA Site

(1) The users have the following rights regarding their personal data for using the G3PA site held by NIES.

A) Right to obtain all necessary information regarding personal data processing (Article 13 and 14 GDPR)

B) Right to inquire about personal data (Article 15 GDPR)

C) Right to rectify personal data (Article 16 GDPR)

D) Right to erase personal data "Right to be forgotten" (Article 17 GDPR)

E) Right to restrict personal data processing (Article 18 GDPR)

F) Right to object to personal data processing (Article 21 GDPR)

G) Right to personal data portability (Article 20 GDPR)

(2) As long as the personal data of the user is processed with the consent of the user, the user has the right to withdraw this consent at any time. The withdrawal of consent shall not affect the lawfulness of processing based on consent before its withdrawal. (Article 7(3) GDPR)

(3) When a minor becomes a user, the consent by the holder of parental responsibility over the minor is required. (Article 8 GDPR)

Figure 6-6 [GDPR Privacy Policy] Screen 2

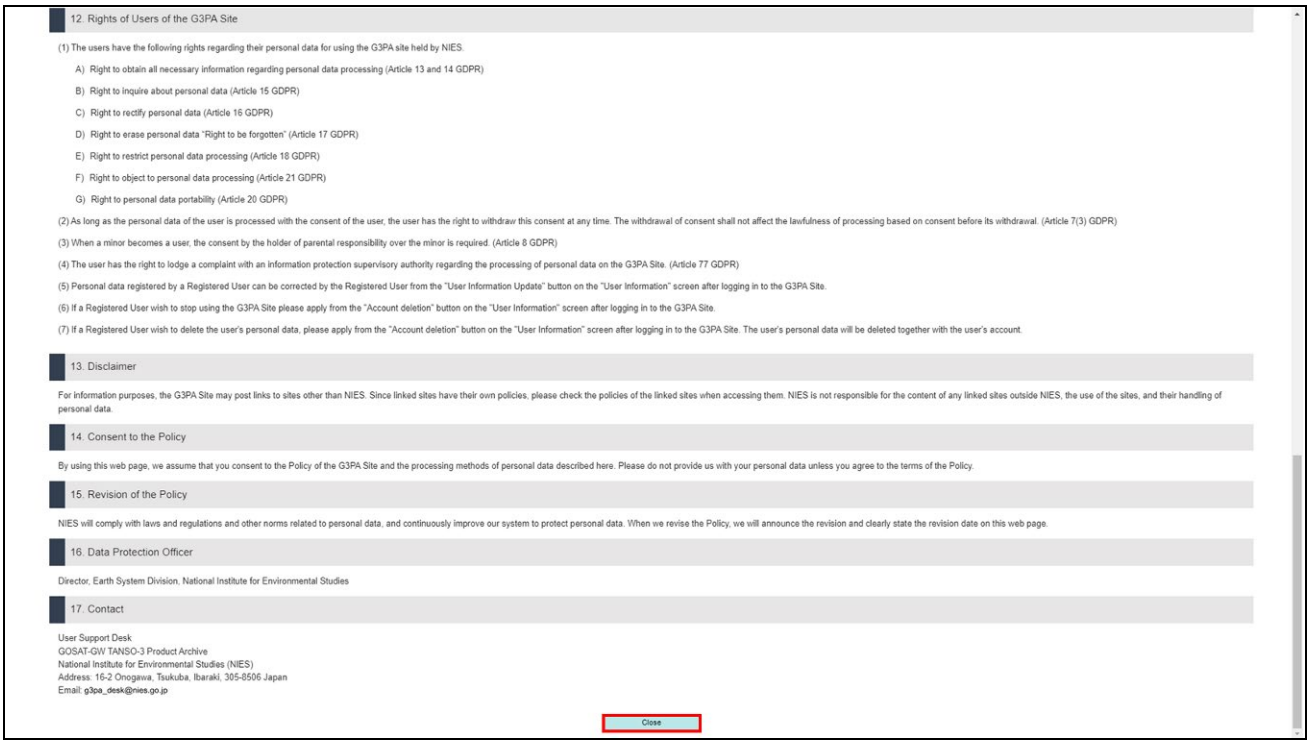


Figure 6-7 [GDPR Privacy Policy] Screen 3

(1) [Close] Button

Closes the [GDPR Privacy Policy] screen in the open browser tab.

6.1.2.2. Confirmation of Input and Application

Review the entered user information and click the [Apply] button.

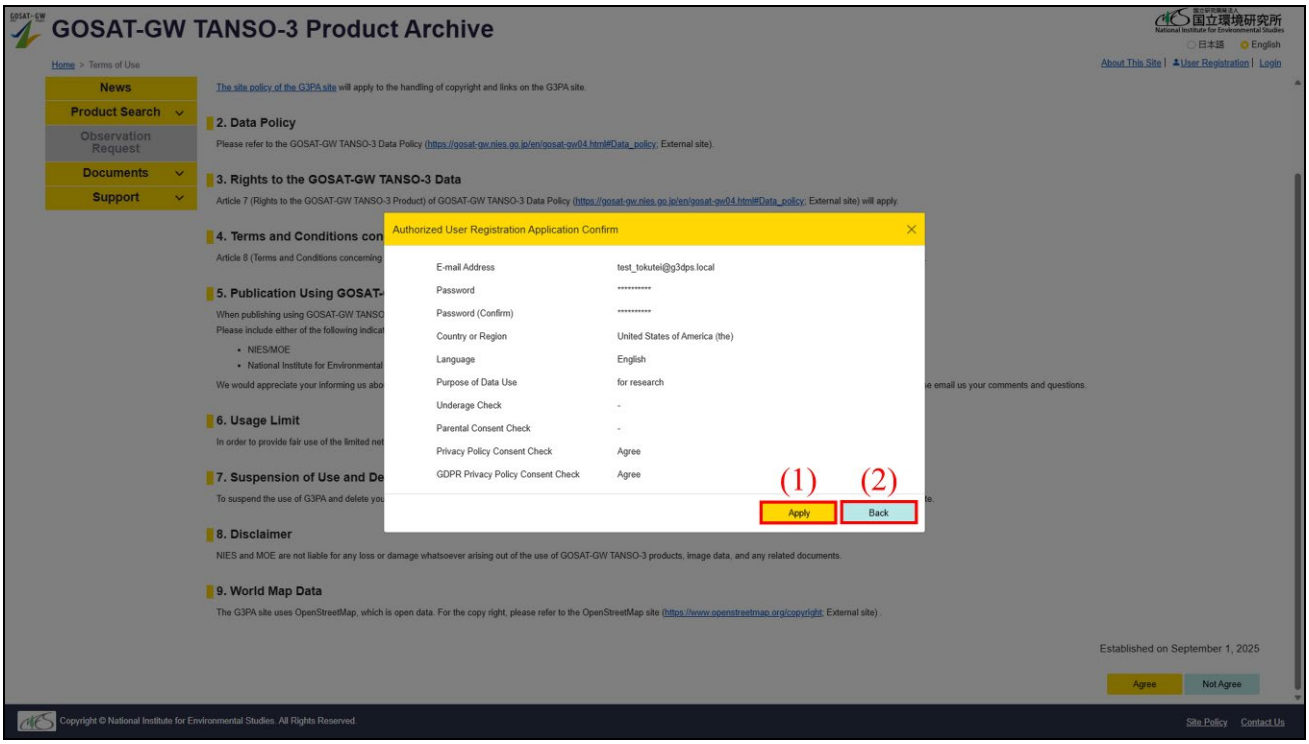


Figure 6-8 [Authorized User Registration Application Confirm] Screen

(1) [Apply] Button

Submits the authorized user registration application and displays the [Authorized User Registration Application Completed] screen.

(2) [Back] Button

Displays the [Authorized User Registration Application] screen.

Notes:

If the following error message is displayed, the session has expired due to the lapse of over three hours since the Terms of Use screen was shown. Please reload [Terms of Use] screen and restart the user registration process from Section 6.1.1.

error message: Your session has expired. After reloading screen, please reapply from the first step of user registration.

6.1.2.3. Completion of Authorized User Registration Application

Review the content displayed on the [Authorized User Registration Application Completed] screen and click the [OK] button.

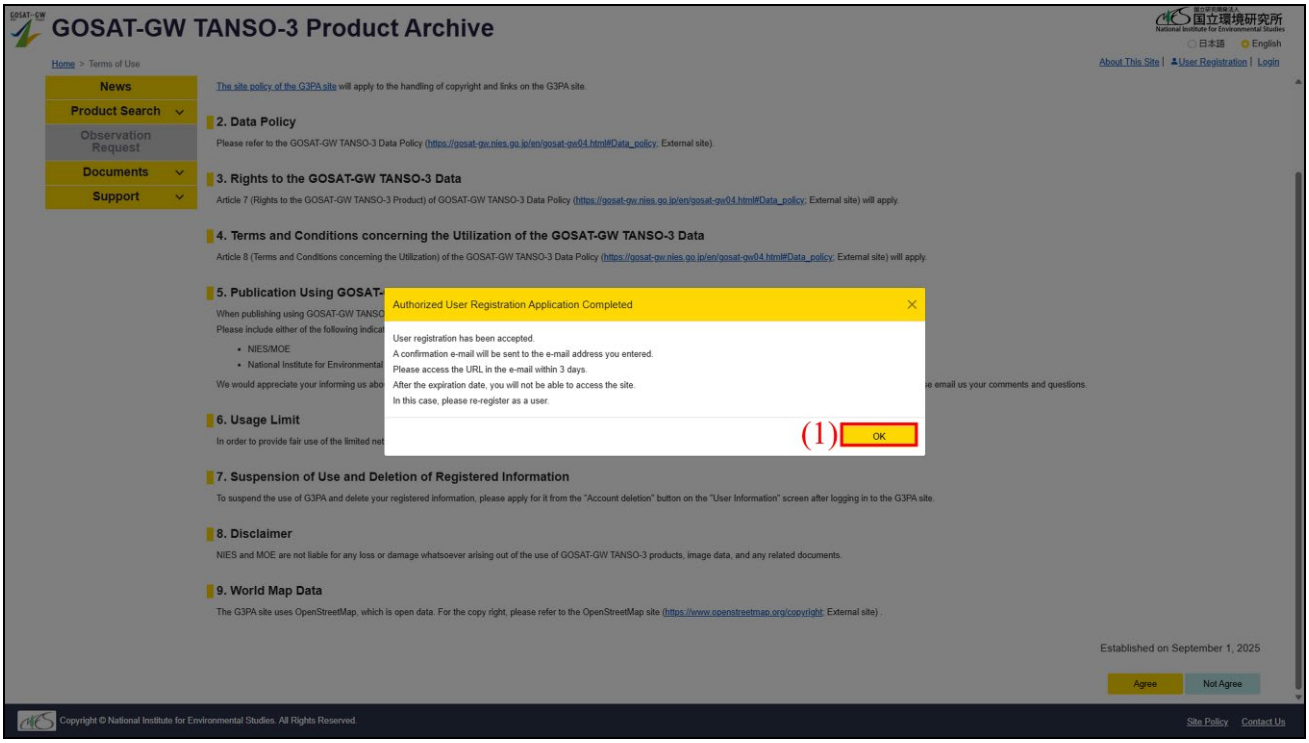


Figure 6-9 [Authorized User Registration Application Completed] Screen

(1) [OK] Button

Closes the [Authorized User Registration Application Completed] screen and transitions to the [Home] screen.

6.1.3. Authorized User Registration Completed

After applying for authorized user registration, the registration as a general user will be processed first.

A registration confirmation e-mail will be sent to the entered e-mail address. By accessing the URL provided in the e-mail, the registration as a general user will be completed.

Notes:

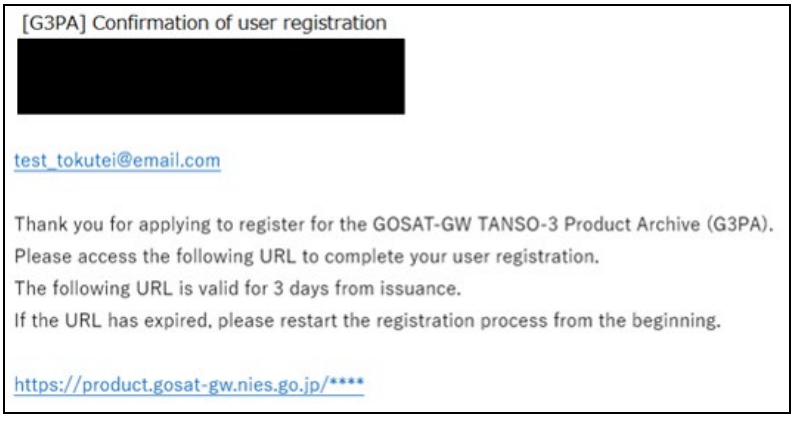
The expiration period of the URL provided in the registration confirmation e-mail is 3 days (*). If the expiration period has passed, please reapply for user registration following the procedure to access the URL for authorized user registration application in Section 6.1.1.

(*) The expiration period may be subject to change based on system settings. Please follow the expiration period stated in the [Authorized User Registration Application Completed] screen and the registration confirmation e-mail.

Restrictions:

During the expiration period of the URL provided in the registration confirmation e-mail, user registration requests with the same e-mail address cannot be made.

If the registration confirmation e-mail is lost before completing the registration, please reapply for user registration following the procedure to access the URL for authorized user registration application in Section 6.1.1 after the expiration period.


[G3PA] Confirmation of user registration

[redacted]

test_tokutei@email.com

Thank you for applying to register for the GOSAT-GW TANSO-3 Product Archive (G3PA).
Please access the following URL to complete your user registration.
The following URL is valid for 3 days from issuance.
If the URL has expired, please restart the registration process from the beginning.

https://product.gosat-gw.nies.go.jp/****

Figure 6-10 Registration Confirmation E-mail

Figure 6-11 [User Registration Completed] Screen

(1) [Login] link

Transitions to the [Login] screen. Please refer to Chapter 4 for the login procedure.

Once the registration as a general user is completed, a registration completion e-mail will be sent to the entered e-mail address.

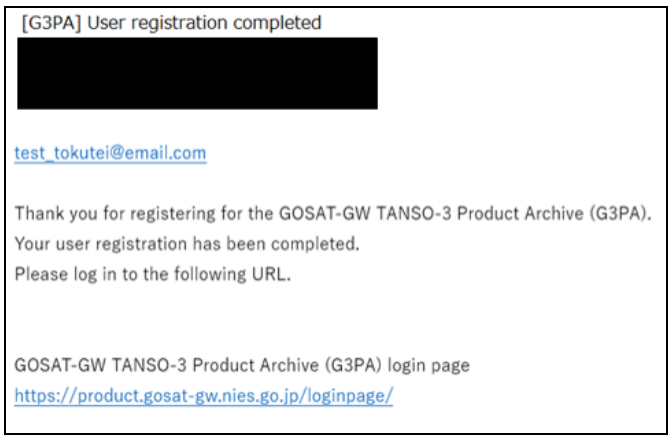


Figure 6-12 Registration Completion E-mail

After the completion of registration as a general user, approval by the Ministry of the Environment and NIES will be conducted, and the user will be registered as an authorized user.

An e-mail confirming the registration as an authorized user will be sent from NIES.

6.2. Applying for Authorized User Registration from a General User <Target: General Users>

In this section, we will explain the procedure for registering as an authorized user for those who have a general user account.

Notes:

Authorized Users are defined as the principal individuals who satisfy the qualification criteria described in Section 1.3.1. Those who do not fall under these categories cannot apply.

If not eligible for authorized user status, the application will be rejected.

It is not possible to apply for authorized user registration from the menu. If you are eligible to apply as an Authorized User, please consult the guidance page on the GOSAT-GW project website regarding Authorized User Applications (https://gosat-gw.nies.go.jp/en/request.html) and follow the instructions provided to submit your application. If your Authorized User Application is approved, you will receive the URL for the Authorized User registration application.

The following procedures can be performed even when not logged in as a general user.

6.2.1. Confirmation of Terms of Use

This section describes the procedures to be followed after accessing the URL for the Authorized User registration application.

If you agree with the content of the Terms of Use, click the [Agree] button.

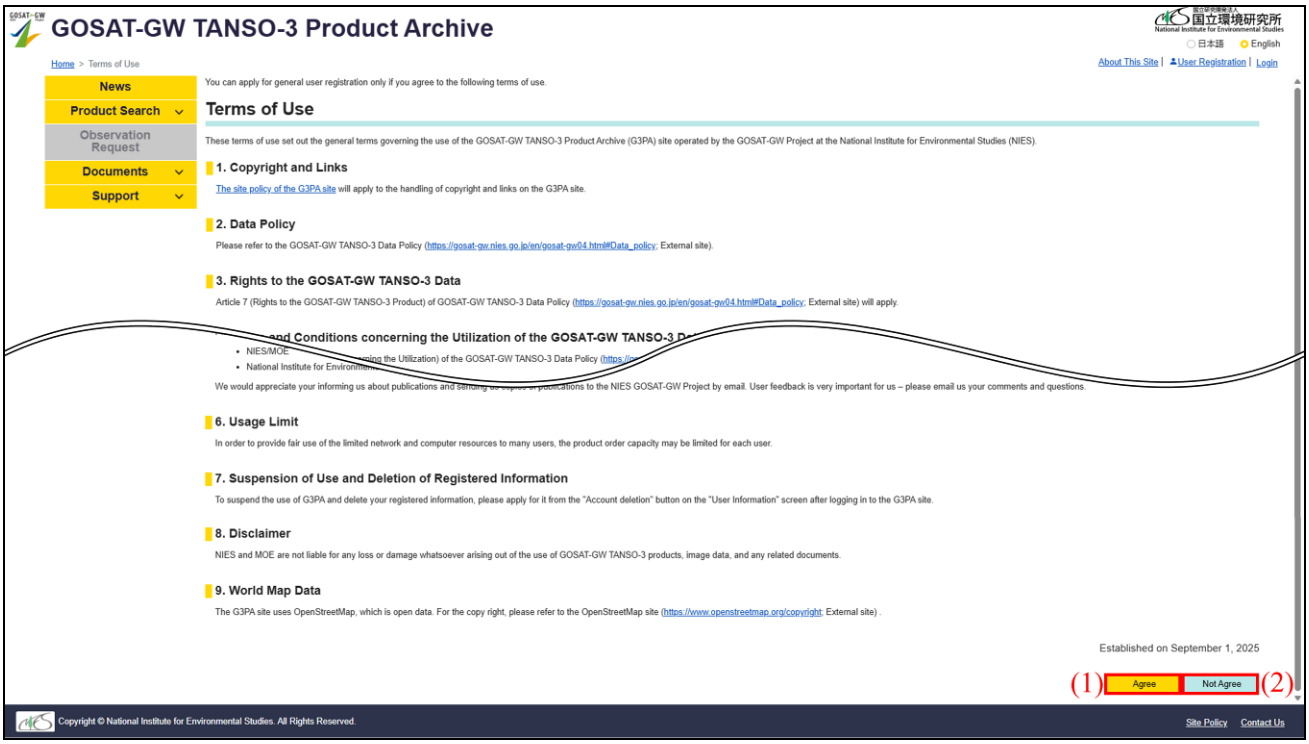


Figure 6-13 [Terms of Use] Screen

(1) [Agree] Button

Displays the [Authorized User Registration Application] screen.

(2) [Not Agree] Button

Transitions to the [Home] screen.

6.2.2. Authorized User Registration Application

6.2.2.1. Inputting User Information

Input the same information as the general user's user information and click the [Confirm] button.

Notes:

Please enter the same e-mail address, password, and password (confirm) as those used for your registered account. Other information will be inherited from the General User's profile, so entering different values for those fields will not take effect.

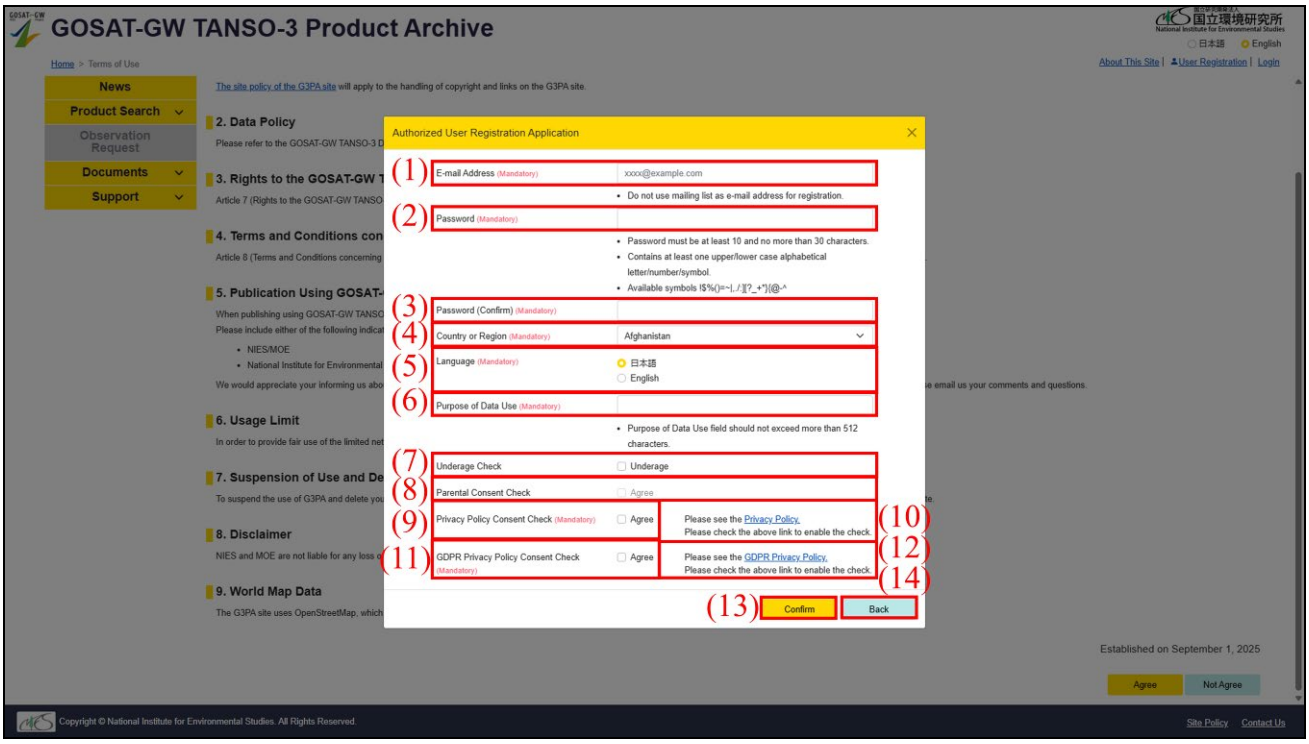


Figure 6-14 [Authorized User Registration Application] Screen

Please refer to 6.1.2.1 for the input items (1) to (12).

(13) [Confirm] Button

Checks if the user is already registered as a general user and displays the [Confirmation] dialog.

(14) [Back] Button

Cancels the authorized user registration application and closes the [Authorized User Registration Application] screen.

6.2.2.2. Confirmation and Application of General User Account

If the e-mail address matches that of a registered general user, the [Confirmation] dialog will be displayed.

Click the [Yes] button.

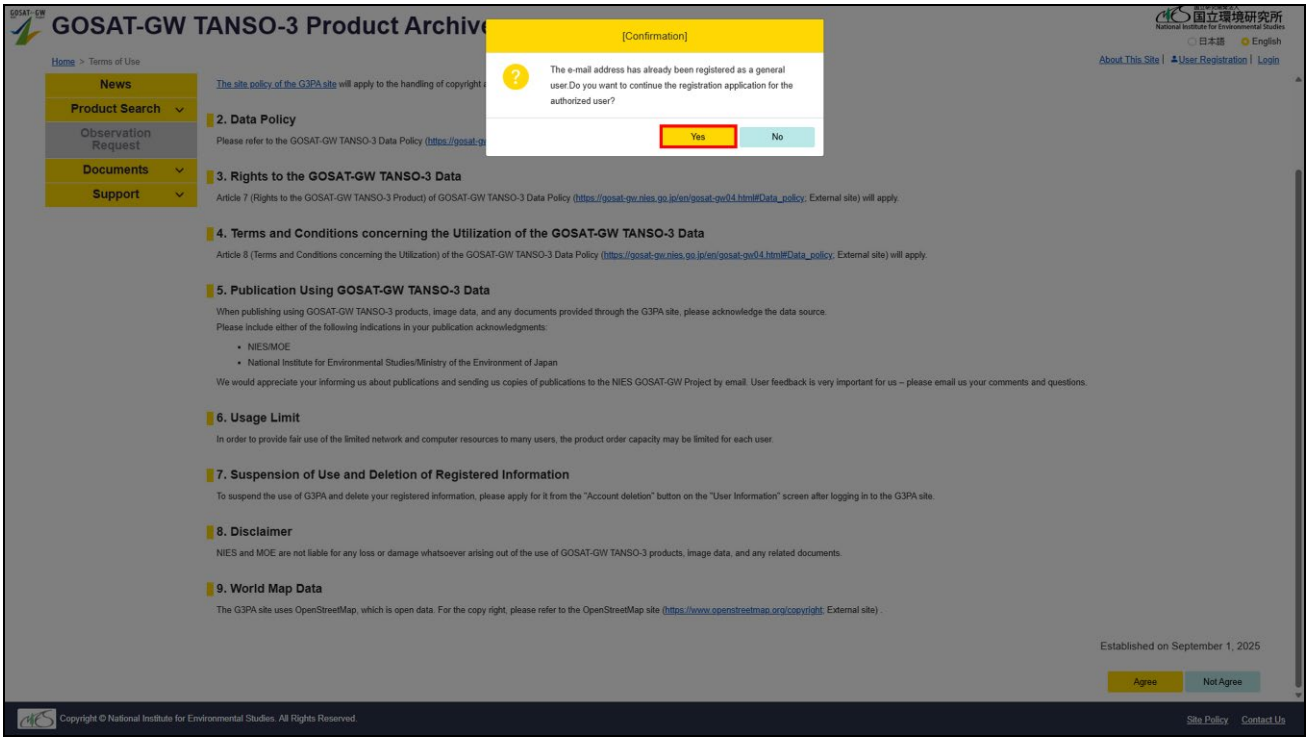


Figure 6-15 [Confirmation] Dialog for Authorized User Registration Application

6.2.2.3. Completion of Authorized User Registration Application

When the [Information] dialog is displayed, click the [OK] button. Transitions to the [Home] screen.

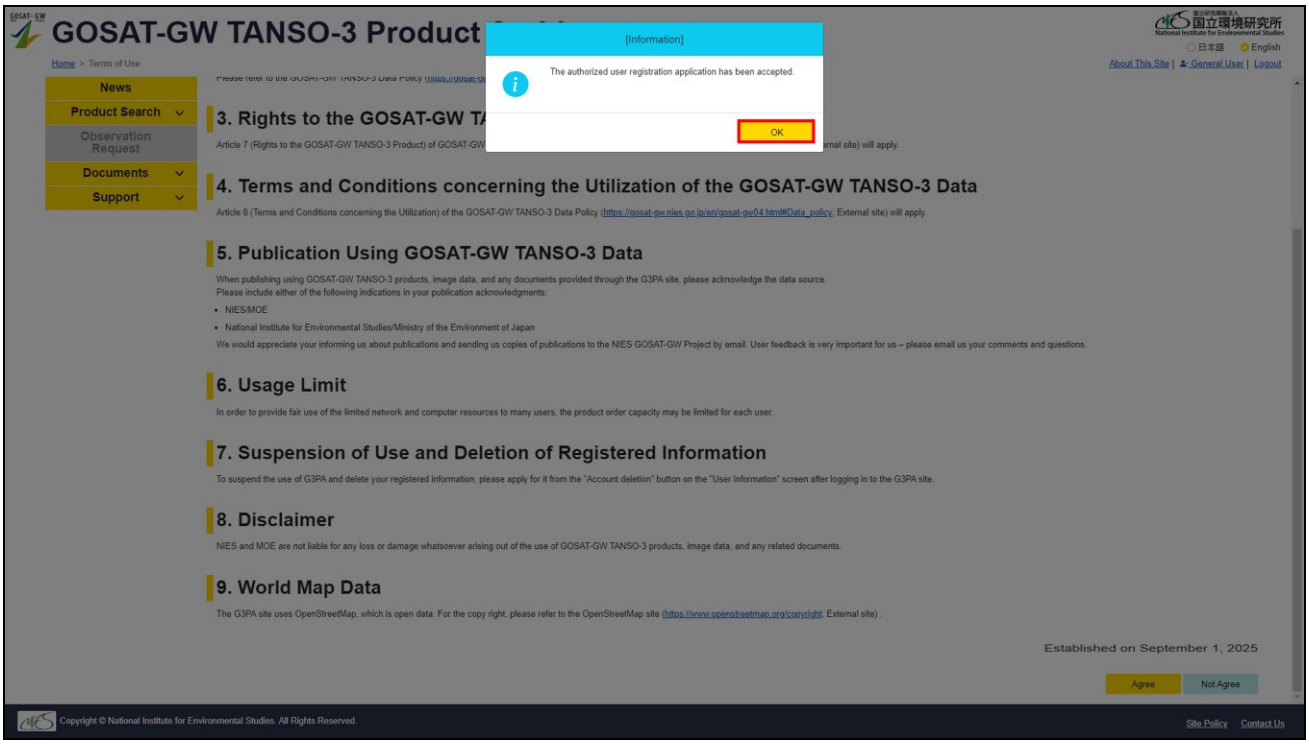


Figure 6-16 [Information] Dialog after Authorized User Registration Application

6.2.3. Authorized User Registration Completed

After approval by the Ministry of the Environment and NIES, the user will be registered as an authorized user.

An e-mail confirming the registration as an authorized user will be sent from NIES.

7. Observation Request <Target: Authorized Users (Observation Requests Available)>

This chapter explains how to apply for an observation request.

The Observation Request menu is a service available only to Authorized users (Observation requests available).

General users and Authorized users (No observation requests) cannot use the Observation Request menu.

(1) The process for applying for a new observation request is as follows:

Perform the previously mentioned [Login] [Section 4.1]

↓ ・Select [Request Application] from the [Observation Request] menu

[Request Application] screen's [Condition] tab [Sections 7.1.1 to 7.1.6]

↓ ・Add observation conditions

[Request Application] screen's [Pattern list] tab [Sections 7.1.7 to 7.1.12]

↓ ・Add observation patterns (optional)

[Request Application] screen's [Request] tab [Section 7.1.13]

↓ ・Execute the observation request application

[Observation Request Application Completed] dialog [Section 7.1.13]

(2) The process for viewing the observation request history is as follows:

Perform the previously mentioned [Login] [Section 4.1]

↓ ・Select [Request History] from the [Observation Request] menu

Request History] screen's [Observation request history search] panel [Section 7.2.1]

↓ ・Specify search criteria and click the [Search] button

[Request History] screen's [Observation request history list] area [Section 7.2.1]

↓ <Search for Observation Request History>

↓・Clicked record for observation request

[Request History] scree, [Observation request history details] area [Section 7.2.1]

↓ <Download Geospatial Information of Observation Area>

↓・Select the number of items from [KMZ Download]

Acquisition of Geospatial Information of Observation Area [Section 7.2.2]

(3) The process for changing an observation request is as follows:

<User-initiated changes>

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓

[Request History] screen's [Observation request history details] area [Section 7.3]

↓ ・Select the [Observation request] tab, change the content of the observation request, and click the [Save observation request] button

Receive notification e-mail for observation request change request [Section 7.3]

<Changes made by NIES representative upon user's request>

Receive notification e-mail for observation request change request [Section 7.3]

↓

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓

Confirm the observation request [Section 7.2.1]

<Changes due to conflict resolution>

Receive notification e-mail for observation request change [Section 7.3]

↓

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓

Confirm the observation request [Section 7.2.1]

(4) The process for canceling an observation request is as follows:

<User-initiated cancellation>

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓ ・Individual Cancellation

[Request History] scree, [Observation request history details] area [Section 7.4]

↓ ・Select the [Request History] tab and
↓ click the [Cancel observation request]
↓ button

↓ ・Multiple Cancellation

[Request History] scree, [Observation request history list] area [Section 7.4]

↓ ・Select the observation request and click
↓ the [Cancel observation request
↓ (selected)] button.

Receive notification e-mail for observation request cancellation request [Section 7.4]

<Cancellation by NIES representative upon user's request>

Receive notification e-mail for observation request cancellation request [Section 7.4]

↓

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓

Confirm the observation request [Section 7.2.1]

<Cancellation due to conflict resolution>

Receive notification e-mail for observation request change [Section 7.3]

↓

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓

Confirm the observation request [Section 7.2.1]

(5) The process after receiving the observation request acceptance/rejection notification e-mail is as follows:

Receive the observation request acceptance/rejection notification e-mail [Section 7.5]

↓

Perform the previously mentioned <Search for Observation Request History> of [The process for viewing the observation request history] [Section 7.2.1]

↓

[Request History] screen's [Observation request history details] area [Section 7.5]

↓ ・Select the [Request Answer] tab

Confirm the acceptance/rejection result of the observation request [Section 7.5]

(6) The process after receiving the observation performance notification e-mail is as follows:

Receive the observation performance notification e-mail [Section 7.6]

↓

Perform the previously mentioned [Search for Observation Request History] up to clicking the [Search] button [Section 7.2.1]

↓

[Request History] screen's [Observation request history list] area [Section 7.6]

↓

Confirm the observation performance [Section 7.6]

↓

Product Search and download [Chapter 5]

7.1. Application for Observation Request

This section describes the procedure for applying for a new observation request.

After registering the observation conditions, you will apply for an observation request. Observation conditions are registered for each observation pattern, and initially, a pattern called "Default" is provided.

It is also possible to add new observation patterns and manage observation conditions with any desired pattern.

Click [Observation Request] menu [Request Application] and open the [Request Application] screen.

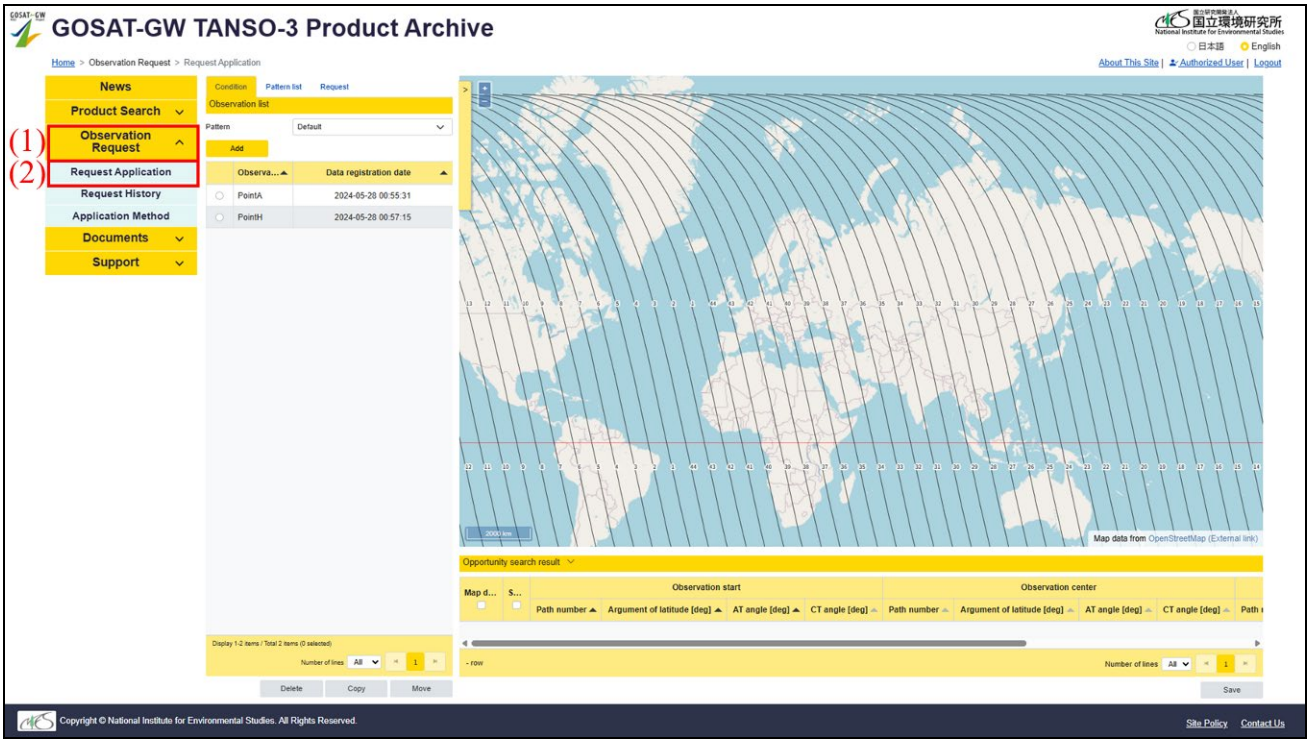


Figure 7-1 [Request Application] Screen

(1) [Observation Request] Menu

Open the observation request menu.

(2) [Request Application]

Transition to the [Request Application] screen.

7.1.1. Adding Observation Conditions (Regular Observation)

In the [Condition] tab, select the pattern name and click the [Add] button. The [Observation condition] panel for entering observation conditions will open.

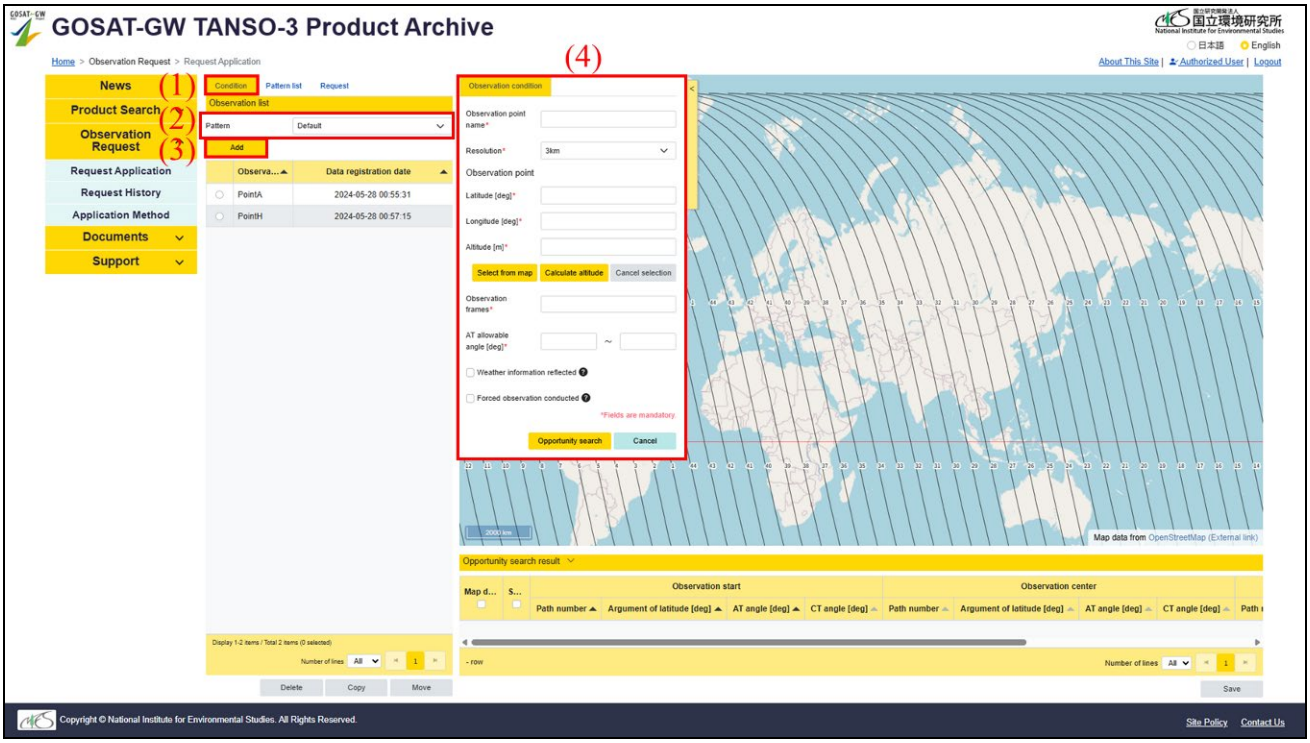


Figure 7-2 [Condition] Tab

(1) [Condition] Tab

Open the [Condition] tab.

(2) [Pattern]

Select the observation pattern. Initially, one "Default" pattern is displayed.

Please refer to Sections 7.1.7 to 7.1.12 for the procedure for adding and editing observation patterns.

(3) [Add] Button

Opens the [Observation condition] panel.

(4) [Observation condition] Panel

Area for entering observation conditions.

7.1.1.1. Entering Observation Conditions and Opportunity Search

In the [Observation condition] panel's [Observation condition] tab, enter each item and click the [Opportunity search] button.

Clicking the [Opportunity search] button will present the satellite position (path number, latitude argument) that is closest to directly below and within the drive limit angle ±34.4 [deg] in the CT direction, based on the observation conditions entered by the user and within the range of the entered AT tolerance angle (described later).

Please refer to Section 7.1.1.2 for checking the opportunity search results and saving the observation conditions.

Notes：

If the following error message appears, the source data for conducting the opportunity search may be in the process of being updated. Please wait about 5 minutes before trying again. If the issue persists, please contact the support listed in Section 8.1.

error message：Failed to execute opportunity search.

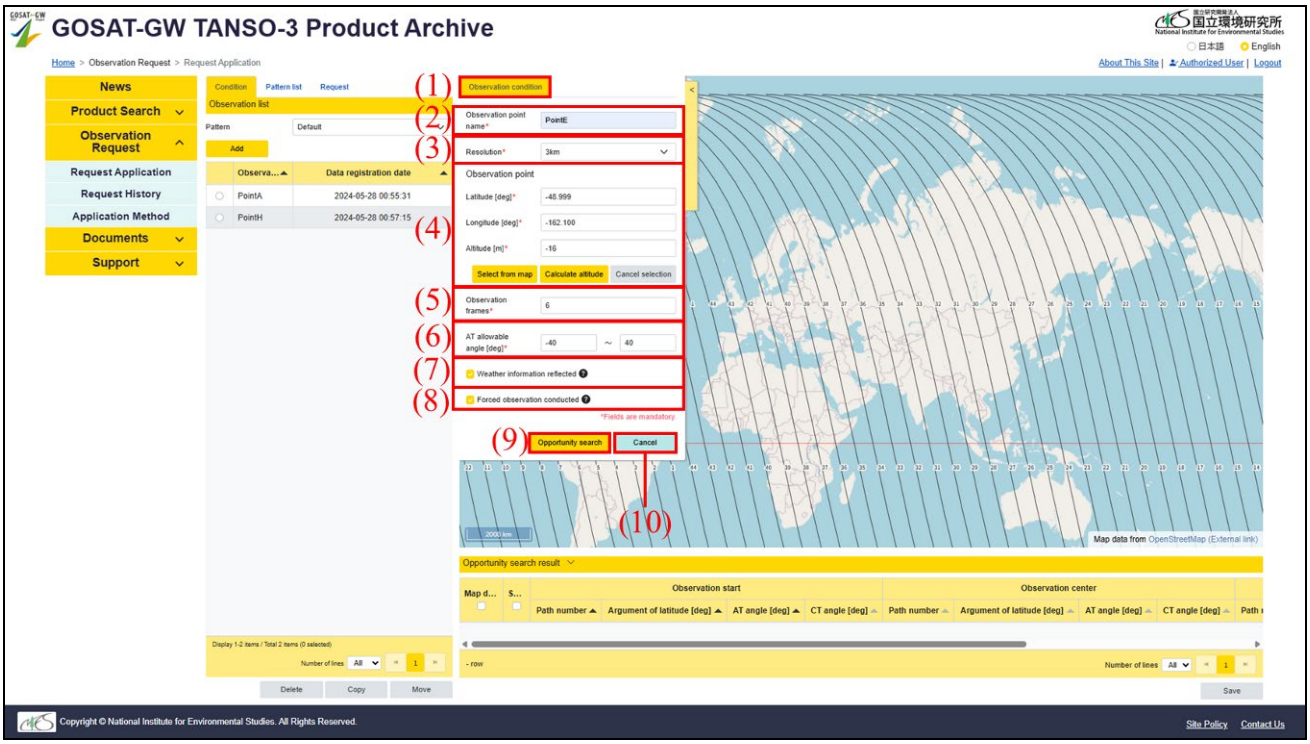


Figure 7-3 [Observation condition] Panel's [Observation condition] Tab

(1) [Observation condition] Tab

Open the [Observation condition] tab.

(2) [Observation point name]

Enter the observation site name within 256 characters. Both half-width and full-width characters are counted as one character each, and any characters exceeding the limit will be truncated.

(3) [Resolution]

Select the resolution.

Restrictions:

Applications other than for Focus Mode observation are not accepted.

(4) [Observation Point]

Enter the latitude, longitude, and altitude of the observation center point. The input ranges are as follows:

Latitude: -90.000 to 90.000 [deg]

Longitude: -180.000 to 180.000 [deg]

Altitude: -10000 to 10000 [m]

You can also select the latitude and longitude from a map. Please refer to Section 7.1.1.3 for the procedure.

The altitude can also be calculated automatically. Please refer to Section 7.1.1.4 for the procedure.

(5) [Observation frames]

Enter the number of observation frames.

The value of the observation frames is proportional to the observation time.

If you want a longer observation time, set a higher value.

Note that the input range varies depending on the selected resolution.

For 1km resolution: 3 to 91

For 2km resolution: 6 to 46

For 3km resolution: 4 to 31

(6) [AT allowable angle [deg]]

Enter the AT allowable angle.

The input range is -40.0 to 40.0 [deg].

The positive side indicates the satellite's forward direction, and the negative side indicates the opposite direction.

During opportunity search, the system will present satellite positions (path number, latitude argument) that are closest to directly below within the specified AT allowable angle range and within the CT direction drive limit angle ±34.4 [deg].

To broaden the search range in opportunity search, it is recommended to set the AT allowable angle to -40.0 to 40.0 [deg]. Especially if you want to conduct high-latitude observations, setting the AT allowable angle to -40.0 to 40.0 [deg] will make it easier to present more potential observation candidates from multiple paths.

However, if you want to conduct observations with a specific AT angle or within a specific range of AT angles, please set the AT allowable angle accordingly.

(7) [Weather information reflected]

Check this box if you want to reflect weather information.

If weather information is reflected, the observation request may be canceled, and a Wide Mode observation request may be planned.

Please refer to the beginning of Section 7.2.1 for Wide Mode observation requests.

(8) [Forced observation conducted]

Check this box if you want to conduct observations even during sunglint occurrences.

If unchecked, the observation request may be rejected.

(9) [Opportunity search] Button

Execute the opportunity search with the entered observation conditions.

(10) [Cancel] Button

Stop adding new observation conditions and close the [Observation condition] panel.

7.1.1.2. Selection of Opportunity Search Results and Saving of Observation Conditions

When the opportunity search is executed, the opportunity search results will be displayed in the [Opportunity search result] area. Select one or more of the targets and click the [Save] button.

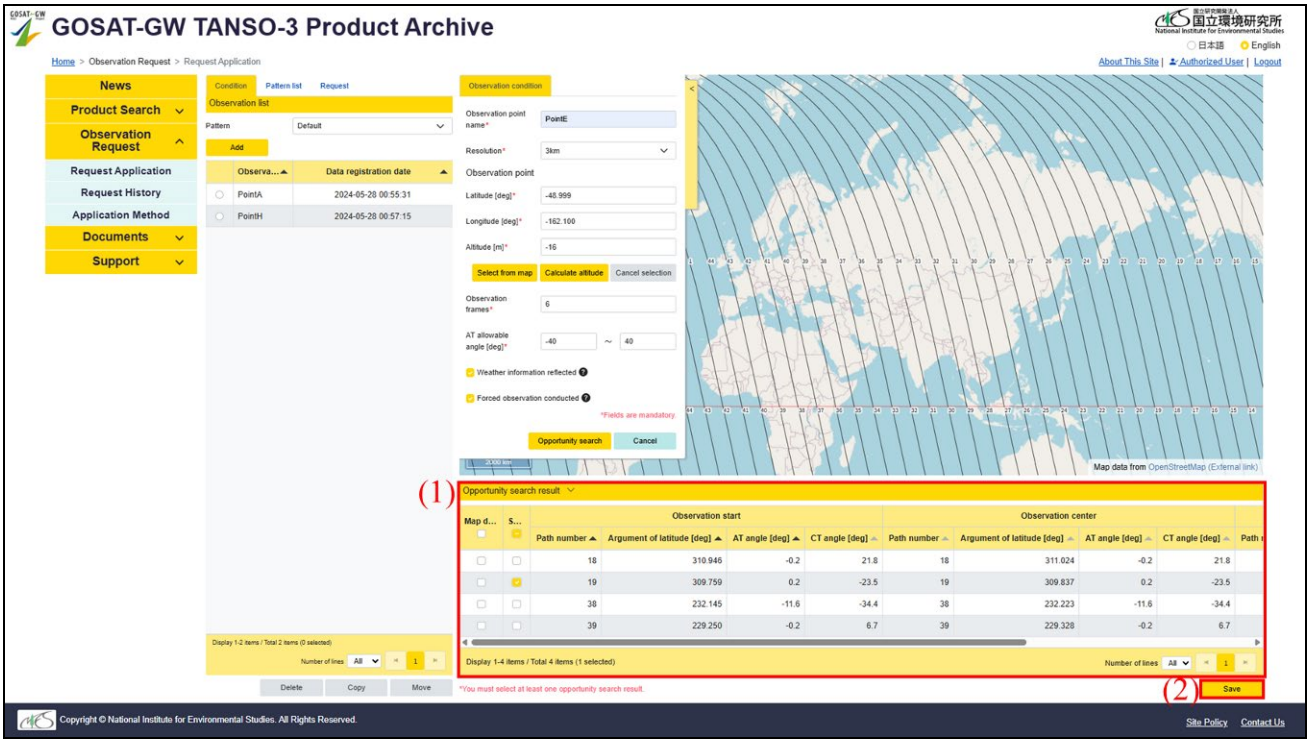


Figure 7-4 [Opportunity search result] Area

(1) [Opportunity search result] Area

Display the opportunity search results. The following items are displayed.

After reviewing the opportunity search results, check the [Select] option for the opportunity search result you wish to use.

The checked opportunity search results will be used in the calculation of observation request candidates in Section 7.1.13.1.

Table 7.1-1 Opportunity Search Result Items

Search Condition		Description
Map display		Check this to display the observation area on the map.
Select		Check this to use in the calculation of observation request candidates as per Section 7.1.13.1.
Observation start	Path number	Displays the path number at the observation start point.
	Argument of latitude [deg]	Displays the latitude argument at the observation start point.
	AT angle [deg]	Displays the AT angle (off-nadir angle) at the observation start point.
	CT Angle [deg]	Displays the CT angle (off-nadir angle) at the observation start point.
Observation center	Path number	Displays the path number at the observation center point.
	Argument of latitude [deg]	Displays the latitude argument at the observation center point.
	AT angle [deg]	Displays the AT angle (off-nadir angle) at the observation center point.

Table 7.1-1 Opportunity Search Result Items

Search Condition		Description
	CT Angle [deg]	Displays the CT angle (off-nadir angle) at the observation center point
Observation end	Path Number	Displays the path number at the observation end point.
	Argument of latitude [deg]	Displays the latitude argument at the observation end point
	AT Angle [deg]	Displays the AT angle (off-nadir angle) at the observation end point.
	CT Angle [deg]	Displays the CT angle (off-nadir angle) at the observation end point.

(2) [Save] Button

Use the selected opportunity search results to save the observation conditions. A [Confirmation] dialog will appear.

Click the [Yes] button in the [Confirmation] dialog.

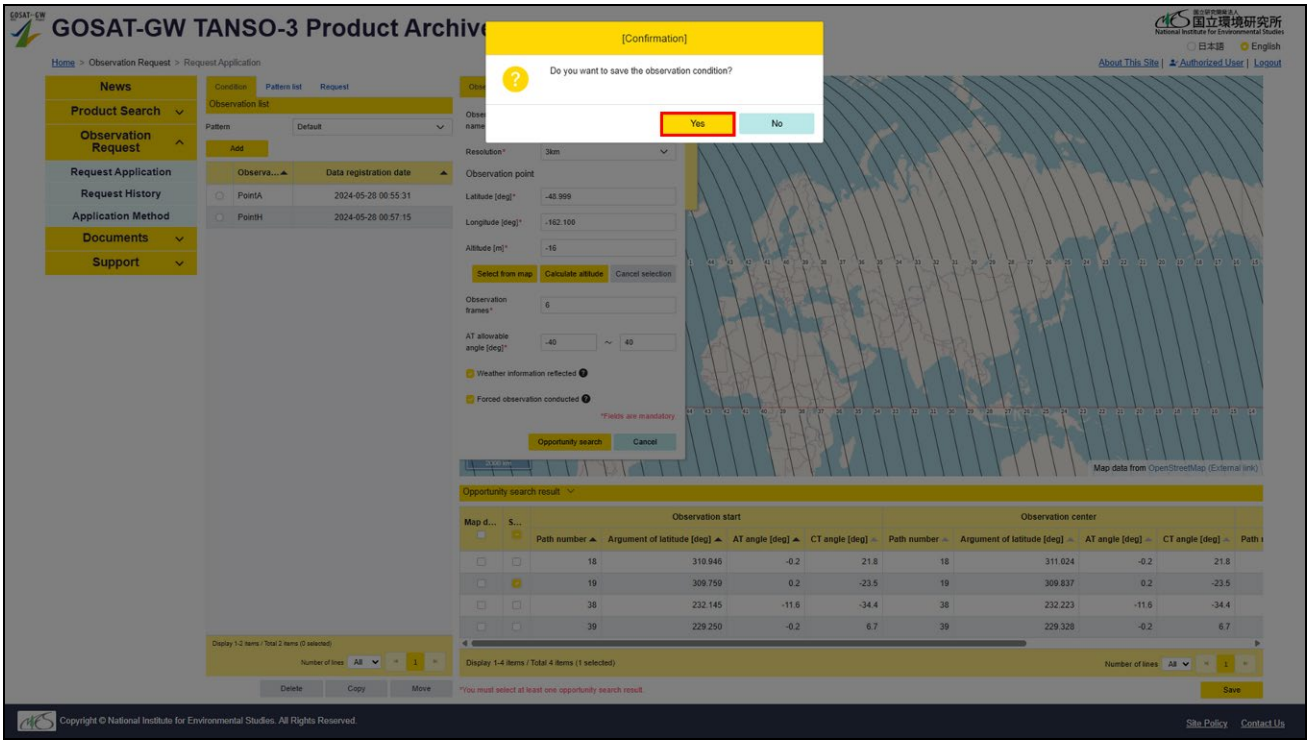


Figure 7-5 Observation Condition Save [Confirmation] Dialog

Once the observation conditions are saved, an [Information] dialog will appear, click the [OK] button.

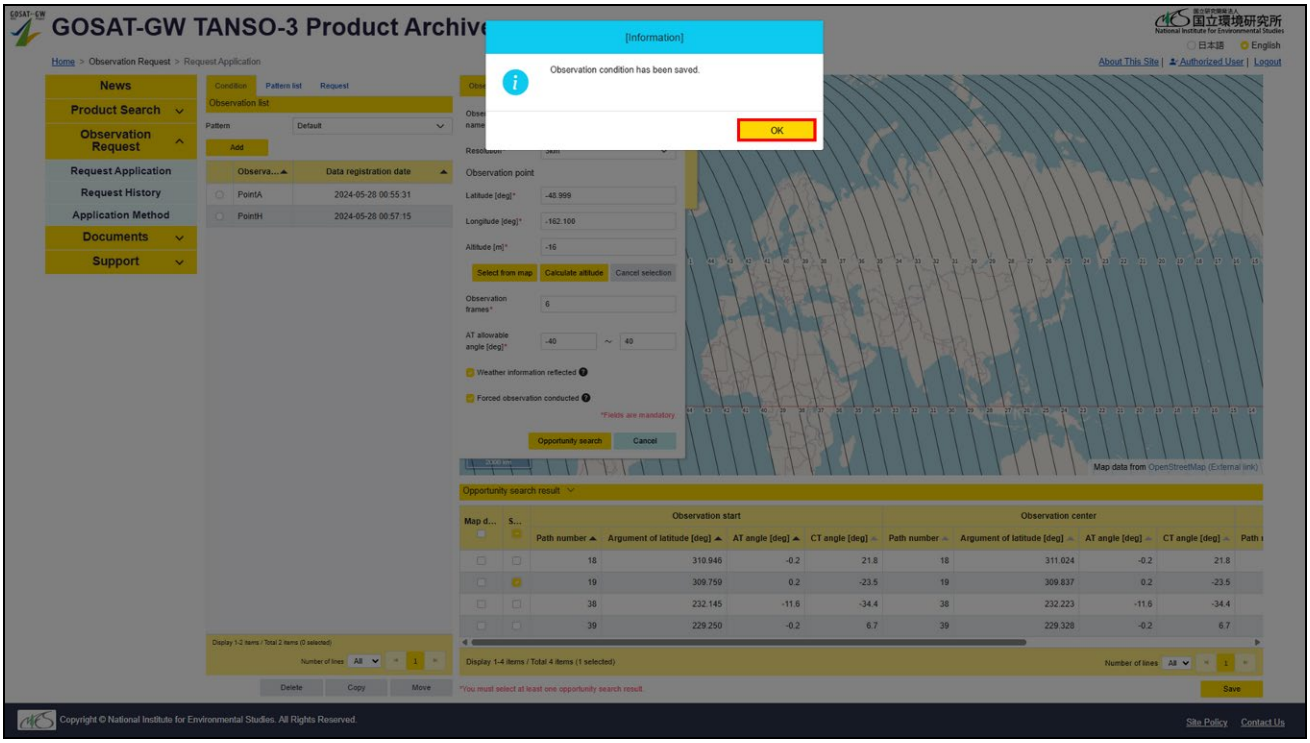


Figure 7-6 Post-Observation Condition Save [Information] Dialog

The observation conditions will be added to the [Observation list] area.

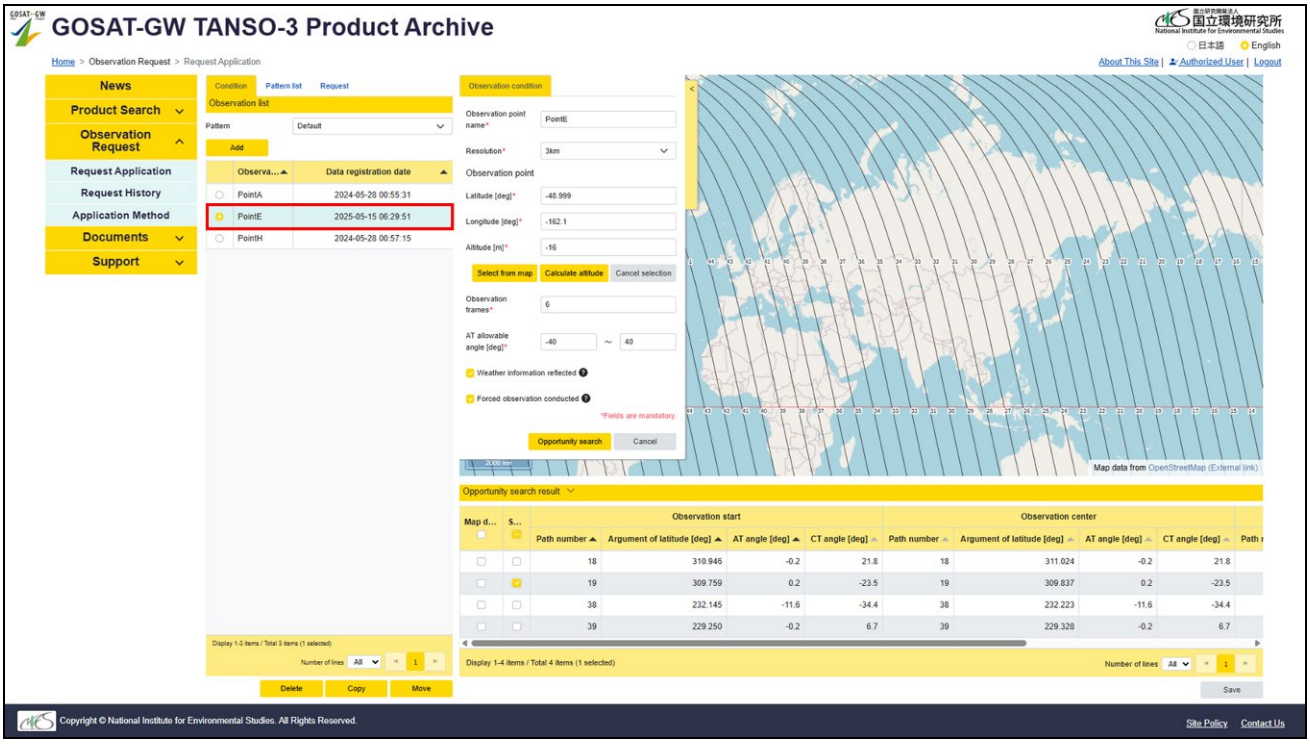


Figure 7-7 Addition of Observation Conditions (Observation condition)

7.1.1.3. Selecting from the Map

This section explains the procedure for selecting the latitude and longitude of the observation center point from the map in the [Observation condition] tab of the [Observation condition] panel.

(1) Click the [Select from map] button. The [Observation condition] panel will close.

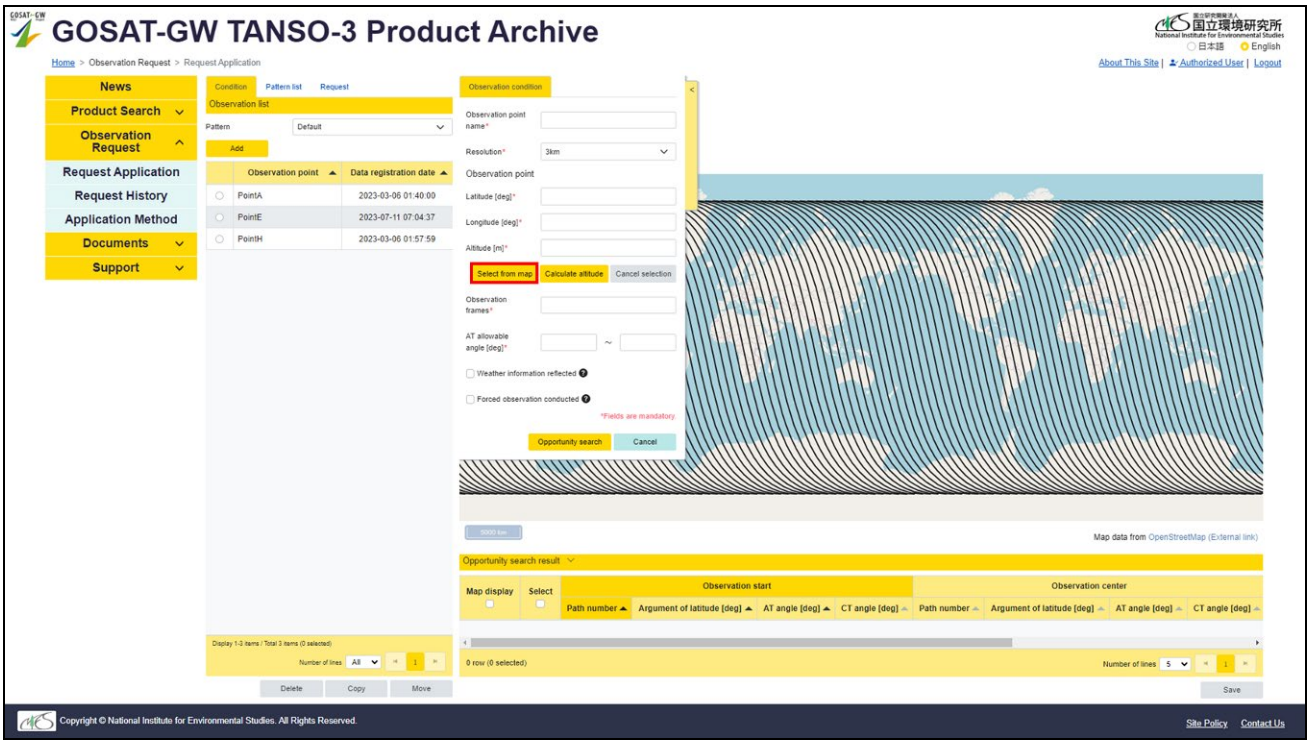


Figure 7-8 [Observation condition] Panel

(2) The state becomes selectable, and the cursor on the map changes to a blue circle. Click on the observation center point. If you want to cancel the selection from the map, reopen the [Observation condition] panel and click the [Deselect] button to cancel the selectable state and return the cursor to its original form.

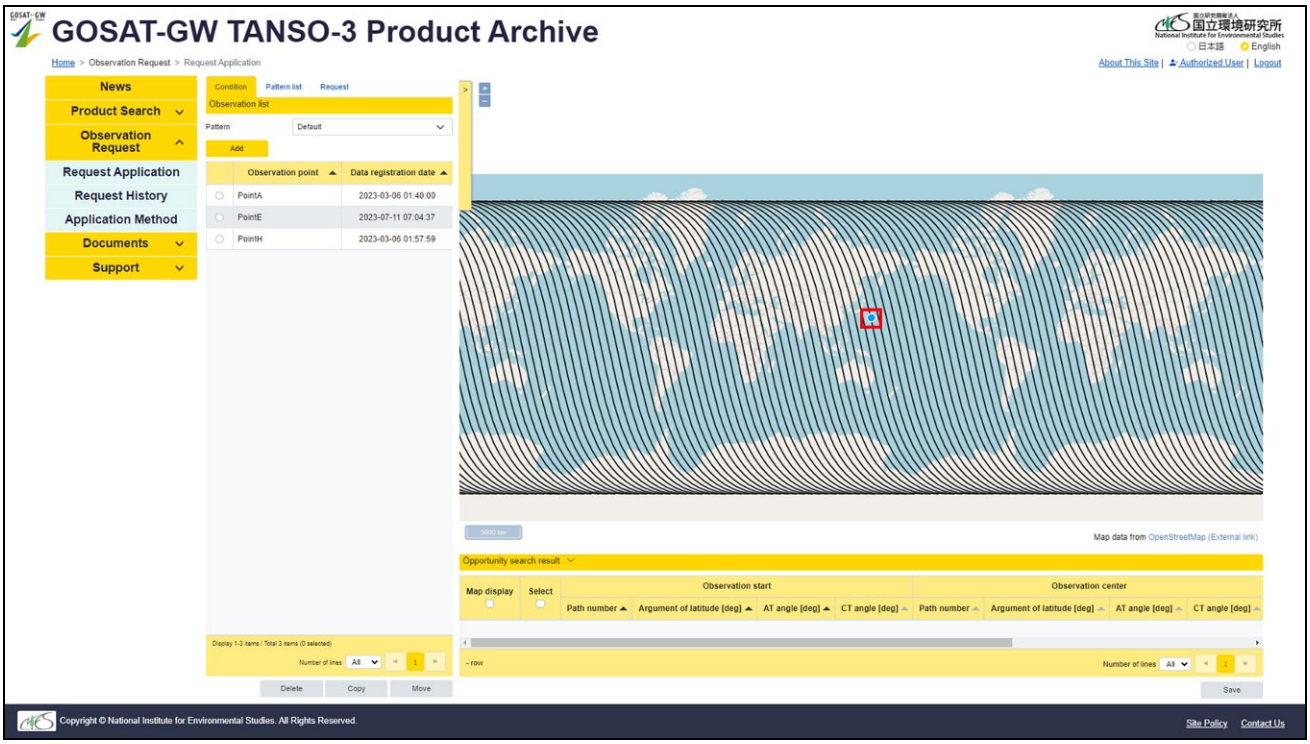


Figure 7-9 Selecting from the Map

(3) The [Observation condition] panel will open, and the values for [Latitude] and [Longitude] will be automatically entered. Click the [Cancel selection] button to clear the values.

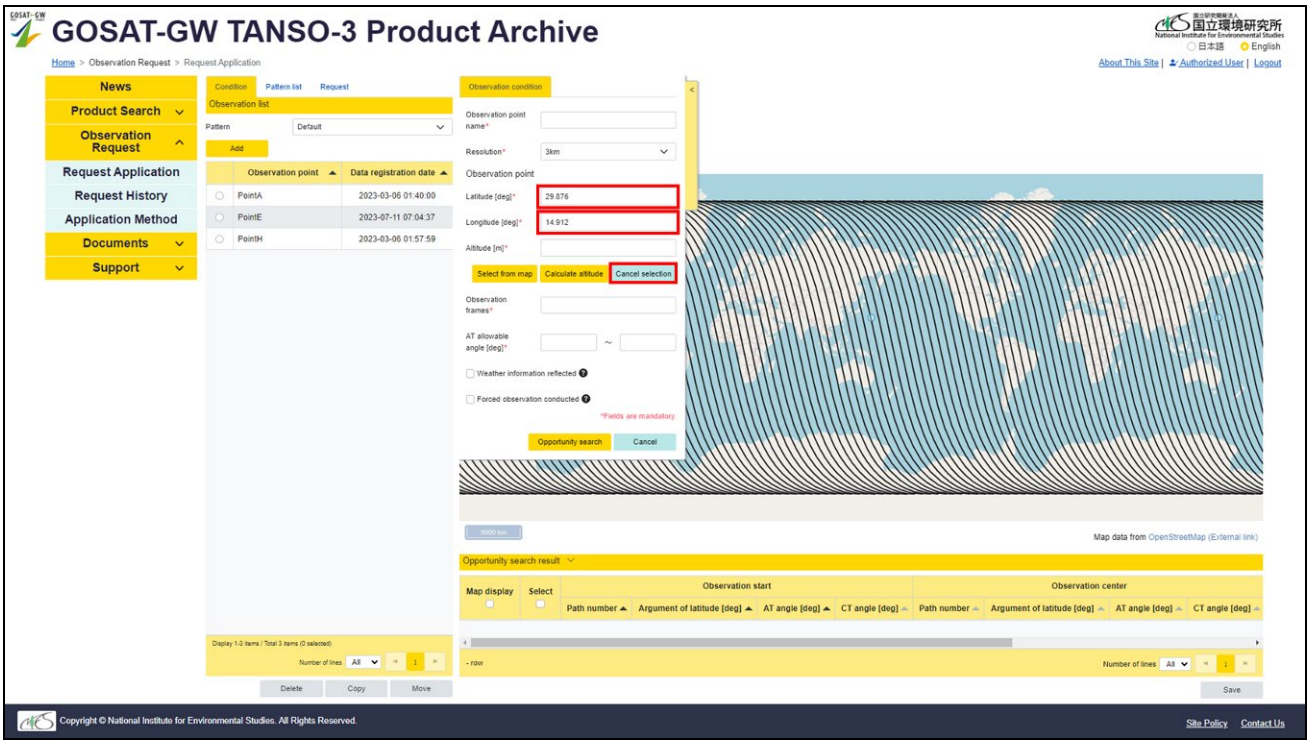


Figure 7-10 [Observation condition] Panel (After Selecting from the Map)

7.1.1.4. Altitude Calculation

This section explains the procedure for automatically calculating the altitude in the [Observation condition] tab of the [Observation condition] panel.

(1) Ensure that [Latitude] and [Longitude] have already been entered.
Click the [Calculate altitude] button.

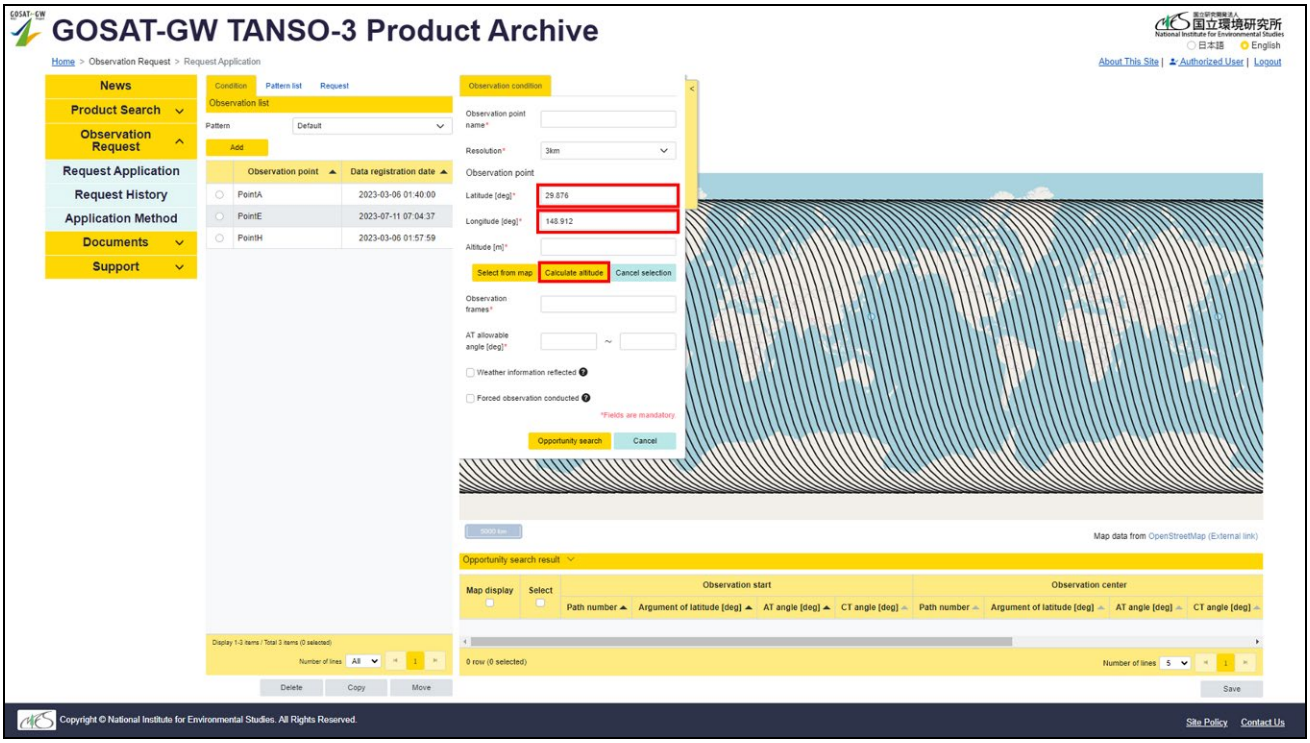


Figure 7-11 [Observation condition] Panel

(2) Once the altitude calculation is complete, the value will be automatically entered in [Altitude].

If latitude and longitude were selected from the map, clicking the [Cancel selection] button will clear the values for [Latitude], [Longitude] and [Altitude].

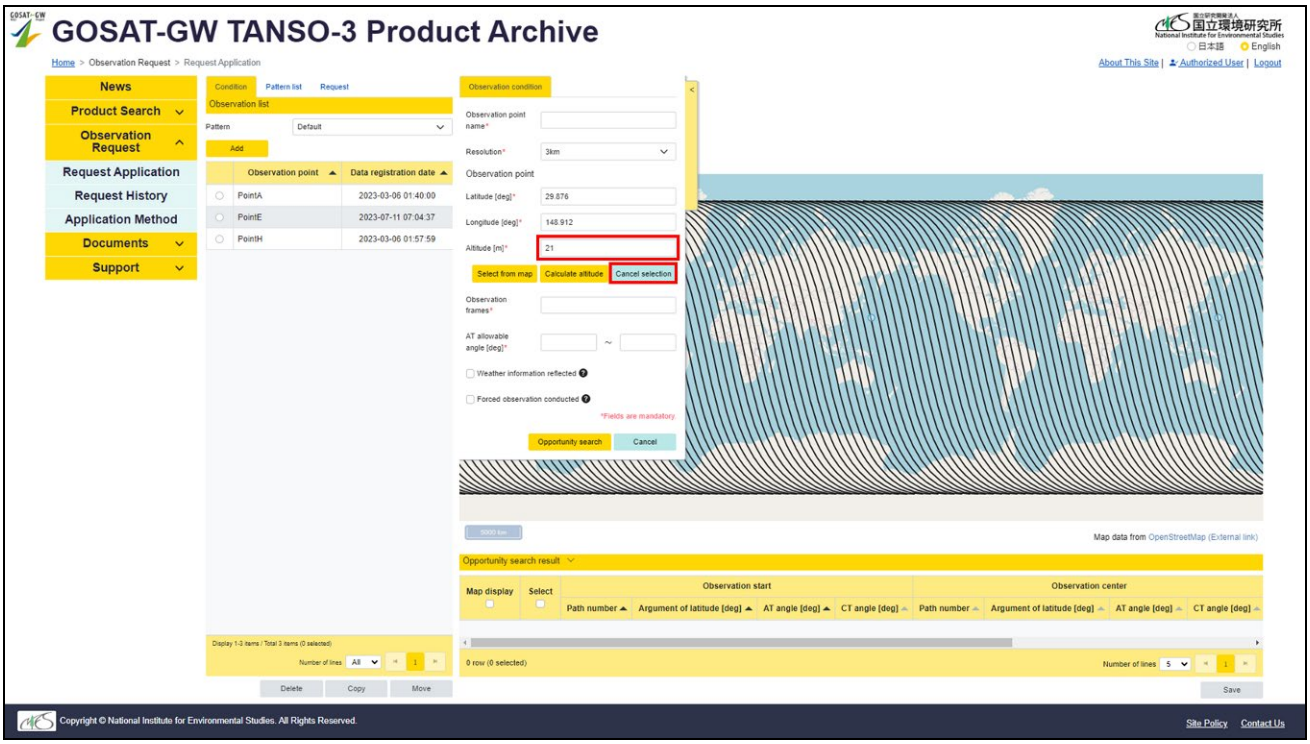


Figure 7-12 [Observation condition] Panel (After Altitude Calculation)

Notes:

The latitude and longitude entered for altitude calculation must be within the range specified in Section 7.1.1.1 (4) [Observation Point].

7.1.2. Adding Observation Conditions (Sunglint Observation)

Follow the procedure in this section to add observation conditions for sun glint observation. For sun glint observation conditions, specify the satellite position near the sea area where you want to conduct sun glint observation by path number and latitude argument. The specified satellite position will be the observation center position.

Note that at the time of adding observation conditions, the sun glint occurrence point cannot be calculated. The sun glint occurrence point will be presented during the 7.1.13.1.

Restrictions:

Only users with the appropriate privileges can apply for sun glint observation requests.

If the user does not have privileges, the [Sunglint condition] tab in the [Observation condition] panel will not be displayed.

In the [Condition] tab, select a pattern name and click the [Add] button. The [Observation condition] panel for entering observation conditions will open.

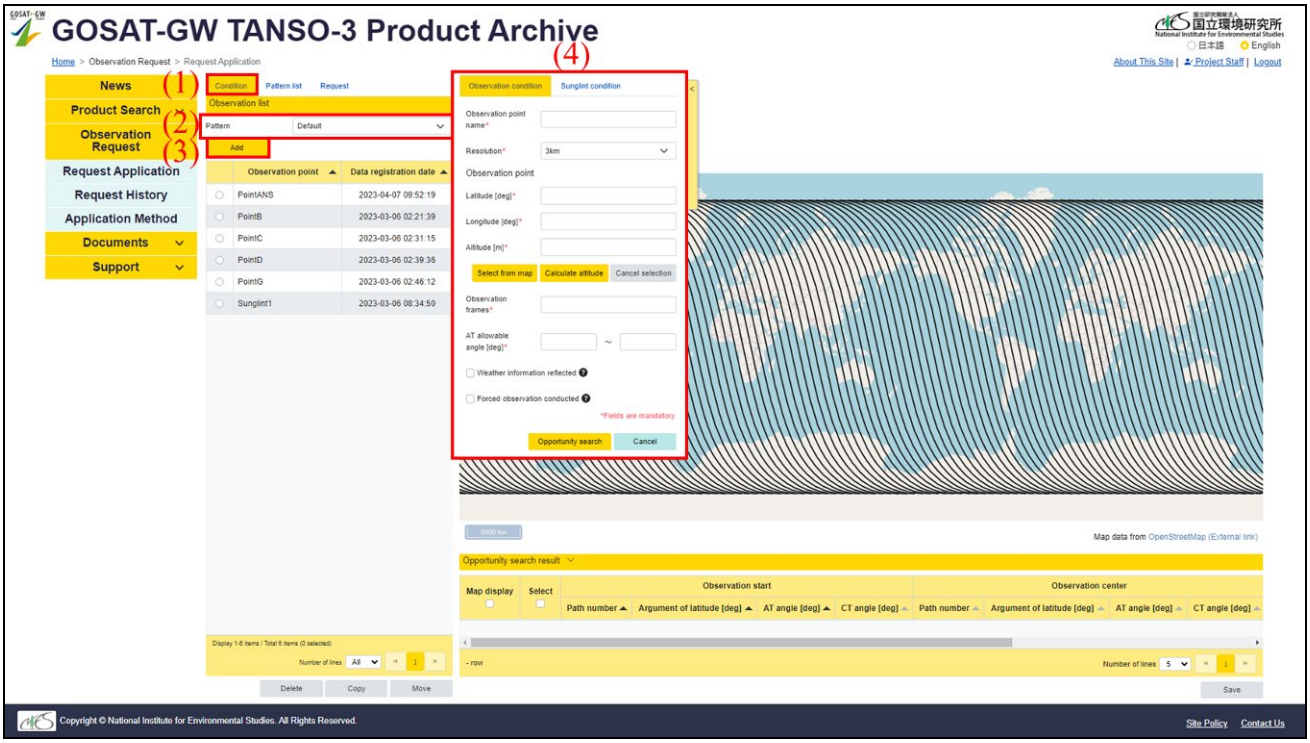


Figure 7-13 [Condition] Tab

(1) [Condition] Tab

Open the [Condition] tab.

(2) [Pattern]

Select an observation pattern. Initially, one 'Default' pattern is displayed.

For procedures on adding or editing observation patterns, please refer to Sections 7.1.7 to 7.1.12.

(3) [Add] Button

Opens the [Observation condition] panel.

(4) [Observation condition] Panel

This is the area for entering observation conditions.

7.1.2.1. Saving Observation Conditions

In the [Sunglint condition] tab of the [Observation condition] panel, enter each item and click the [Save] button.

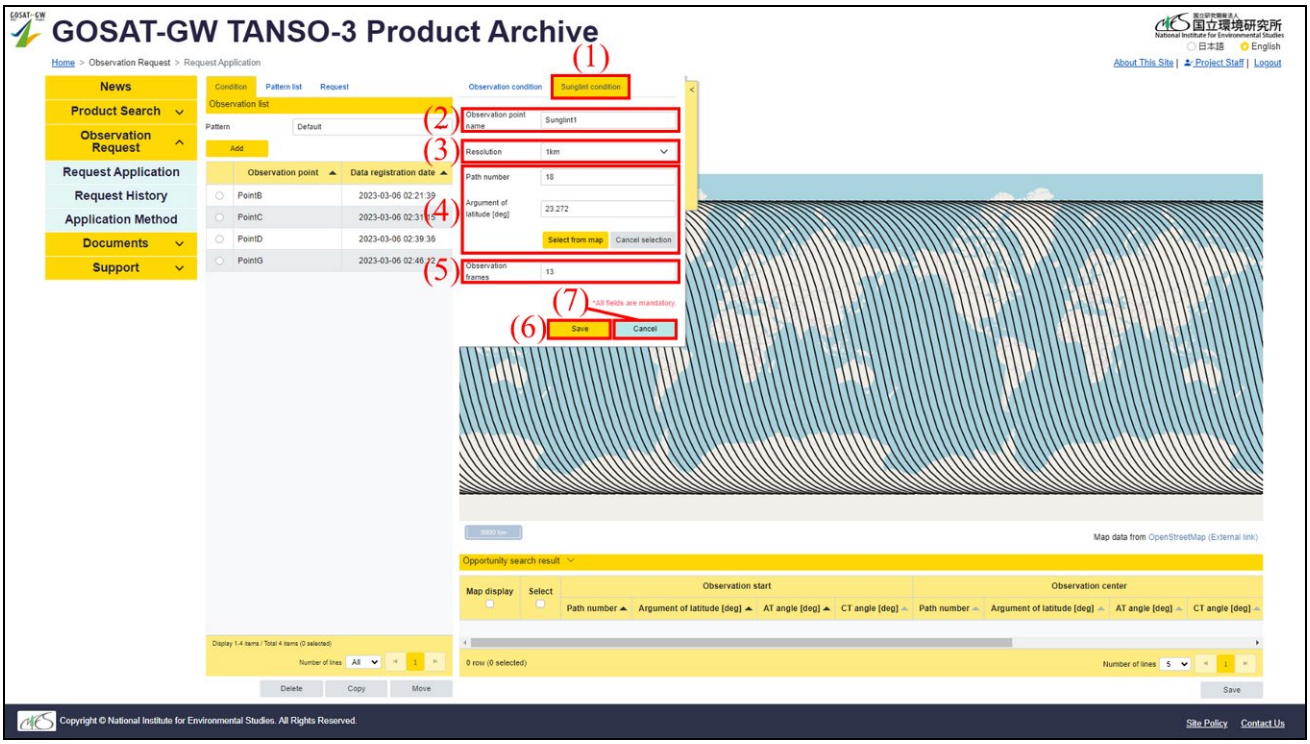


Figure 7-14 [Observation condition] Panel's [Sunglint condition] Tab

(1) [Sunglint condition] Tab

Open the [Sunglint condition] tab.

(2) [Observation point name]

Enter the observation site name within 256 characters. Both half-width and full-width characters are counted as one character, and any characters exceeding the limit will be truncated.

(3) [Resolution]

Select the resolution.

Restrictions:

Applications other than for Focus Mode observation are not allowed.

(4) [Path number] / [Argument of latitude]

Enter the path number and latitude argument for the satellite position you want to observe. The input range is as follows. Note that a latitude argument of 0.000[deg] indicates the timing when the satellite crosses the ascending node.

Path Number: 1 to 44

Latitude Argument: 0.000 to 359.999[deg]

Path number and latitude argument can also be selected from the map. For the procedure, please refer to Section 7.1.2.2.

(5) [Observation frames]

Enter the number of observation frames.

The input range varies depending on the selected resolution.

For 1km resolution: 3 to 91

For 2km resolution: 6 to 46

For 3km resolution: 4 to 31

(6) [Save] Button

Save the entered observation conditions. A [Confirmation] dialog will be displayed.

(7) [Cancel] Button

Cancel the addition of new observation conditions and close the [Observation condition] panel.

Click the [Yes] button in the [Confirmation] dialog.

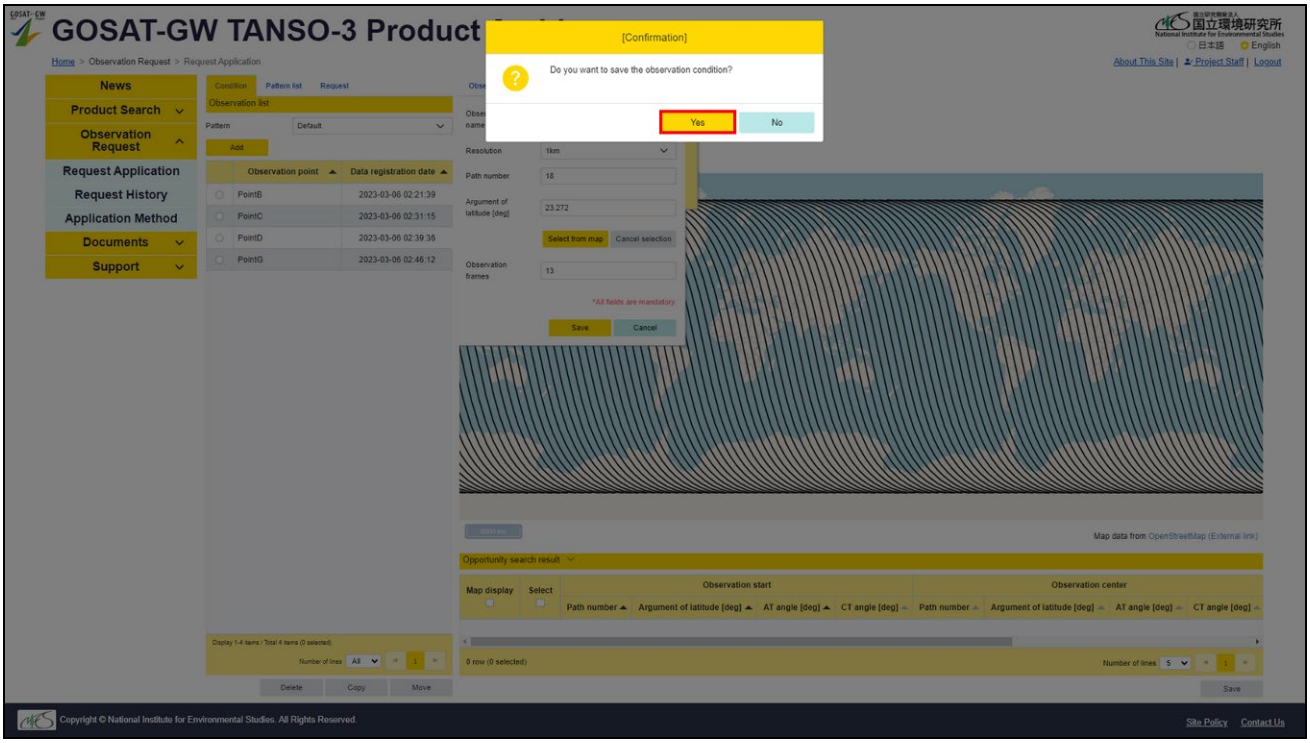


Figure 7-15 [Confirmation] Dialog for Saving Observation Conditions

Once the saving of observation conditions is complete, an [Information] dialog will appear, so click the [OK] button.

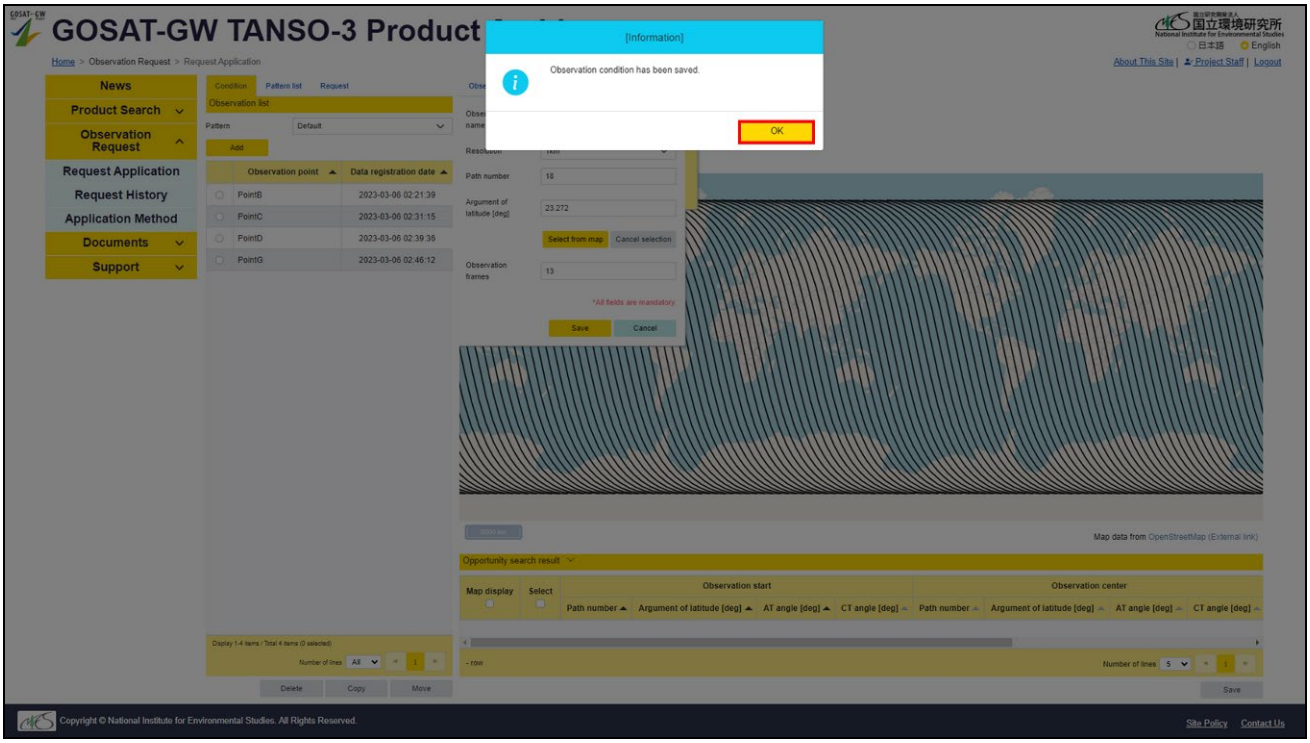


Figure 7-16 [Information]Dialog after Saving Observation Conditions

Observation conditions will be added to the [Observation list] area.

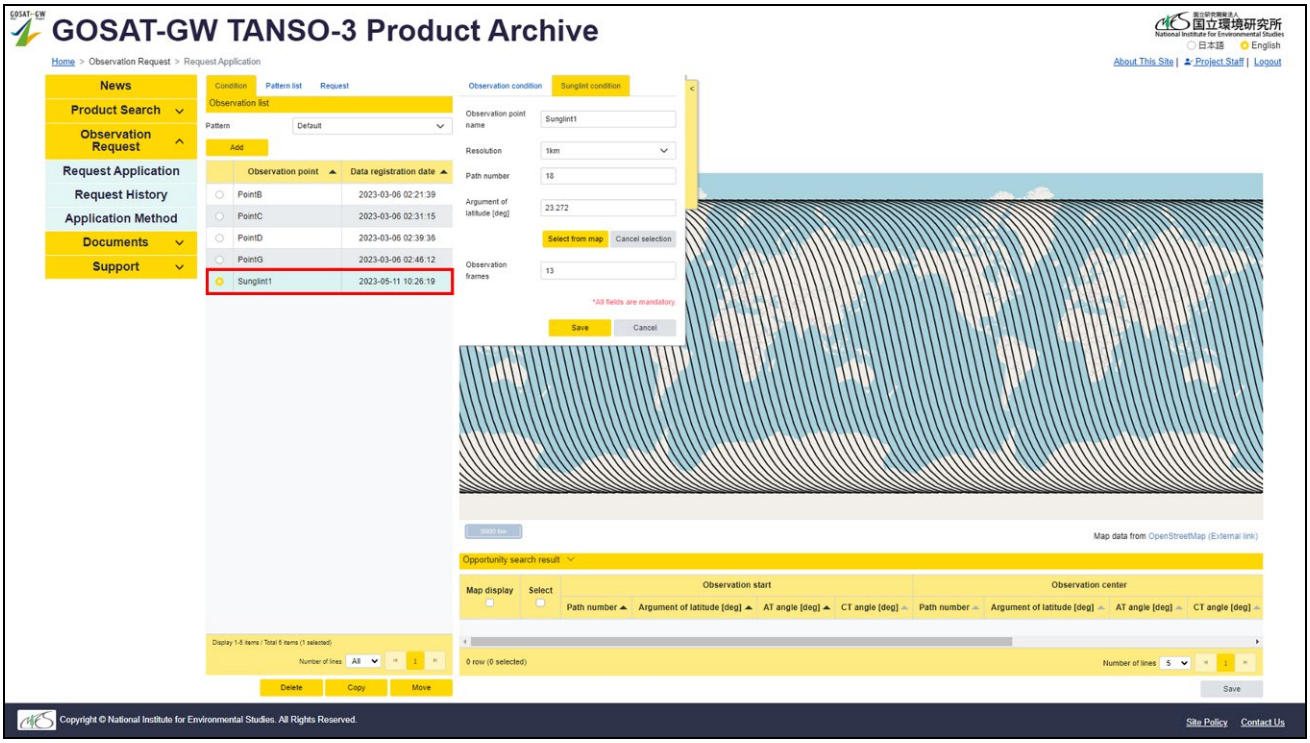


Figure 7-17 After Adding Observation Conditions (Sunglint Observation)

7.1.2.2. Select from Map

In the [Sunglint condition] tab of the [Observation condition] panel, the procedure for selecting the desired satellite position (path number and latitude argument) from the map is explained.

(1) Click the [Select from map] button. The [Observation condition] panel will close.

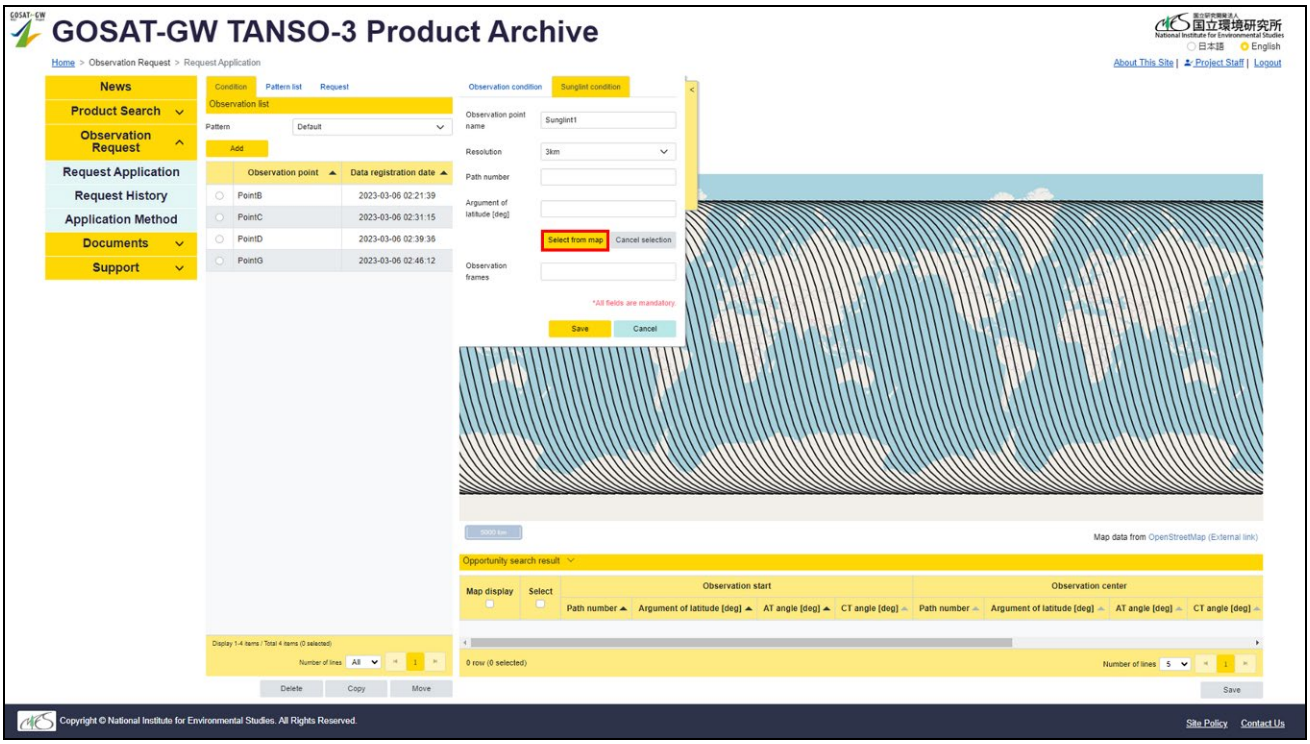


Figure 7-18 [Observation condition] Panel

(2) The state becomes selectable, and the cursor on the map changes to a blue circle. Click the satellite position you want to observe. If you want to cancel the selection from the map, reopen the [Observation condition] panel and click the [Cancel selection] button to return the cursor to its original state.

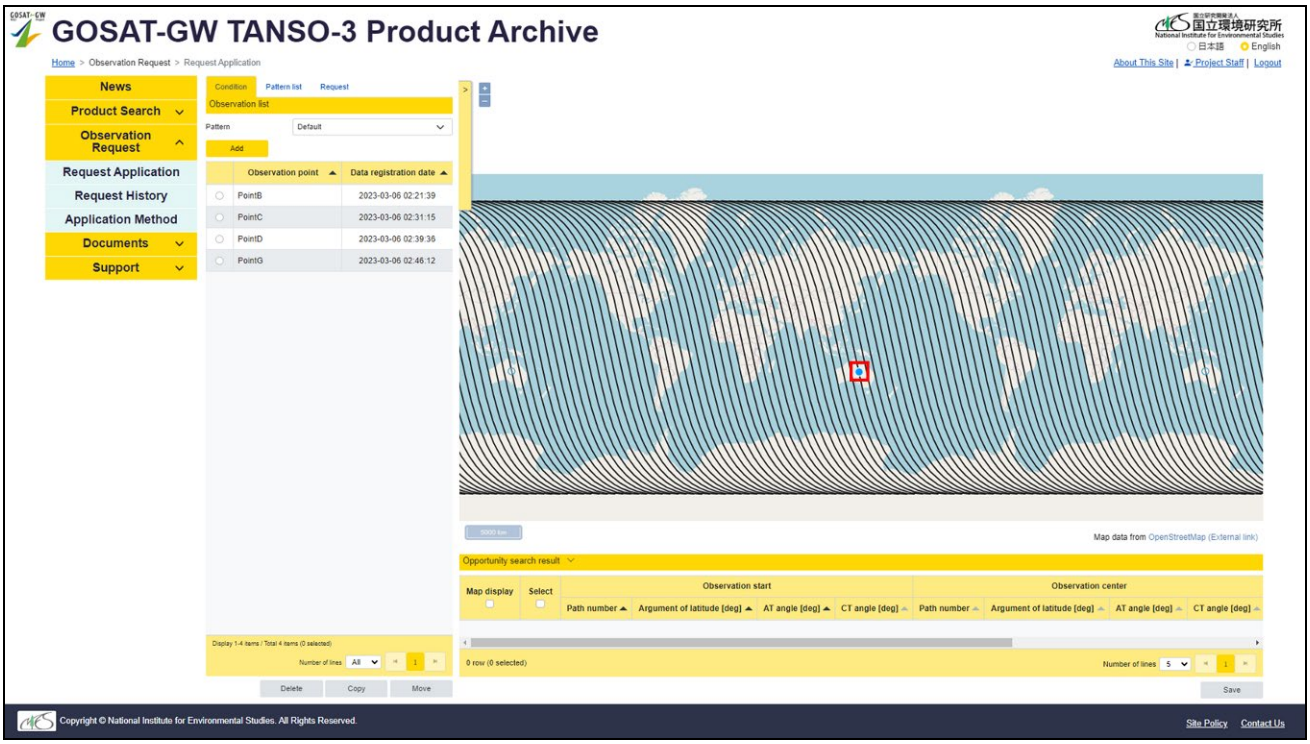


Figure 7-19 Select from Map

(3) The [Observation condition] panel will open, and the [Path number] and [Argument of latitude] will be automatically filled in. The nearest satellite position to the clicked point will be selected.

Click the [Cancel selection] button to clear the values.

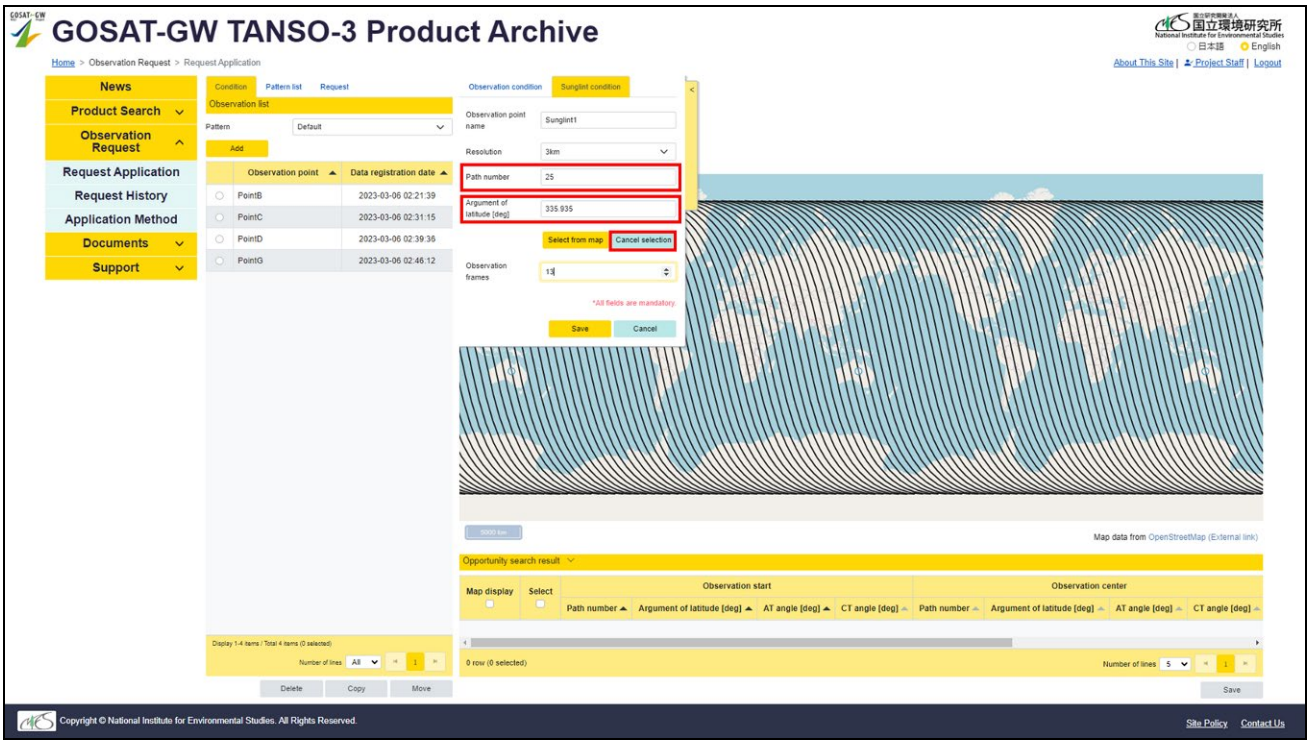


Figure 7-20 [Observation condition] Panel (After Selection from Map)

Notes:

When selecting from the map, please choose a point near the path (black line).

If you select a point far from the path, the [Path number] and [Argument of Latitude] may not be automatically filled in.

7.1.3. Changing Observation Conditions

In the [Condition] tab, select an observation condition from the [Observation list] area. The [Observation condition] panel will open, where you can edit each item.

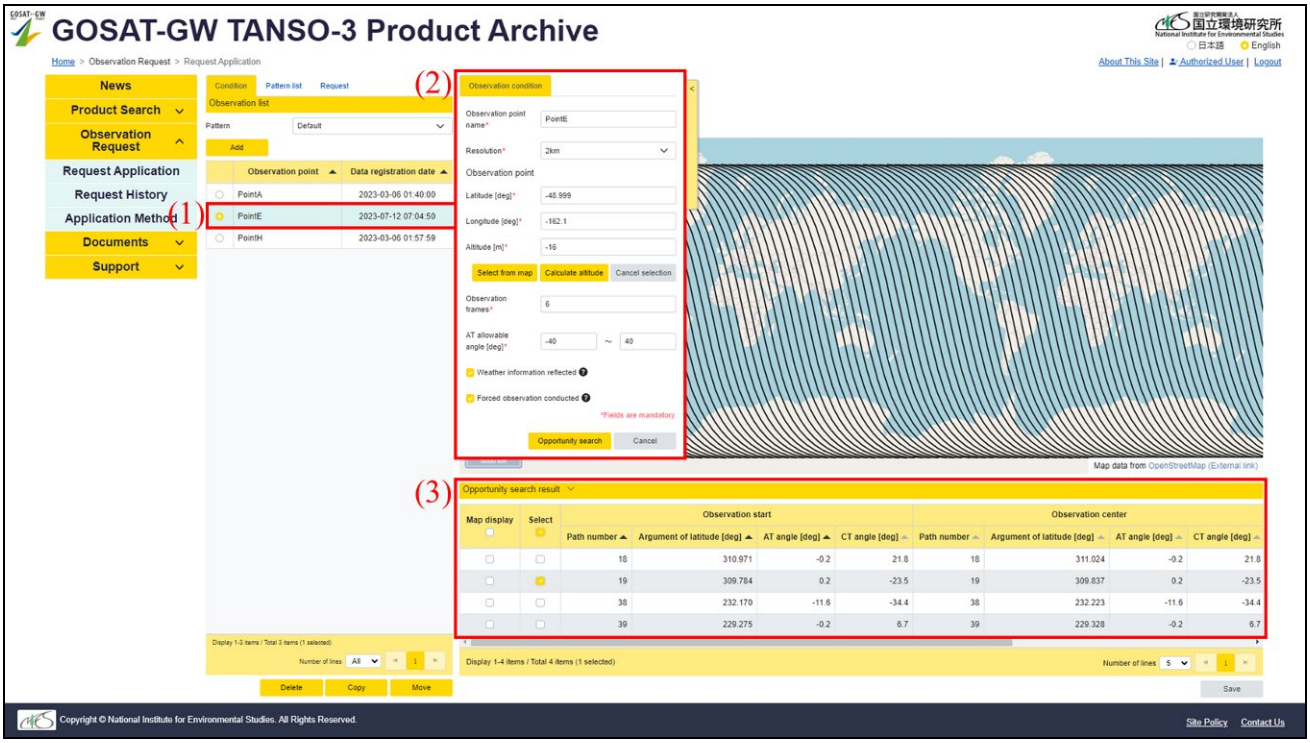


Figure 7-21 [Condition] Tab

(1) [Observation pint name]

Select the observation condition.

(2) [Observation condition] Panel

This is the area where you can edit the observation conditions.

(3) [Opportunity search result] Area

This area allows you to edit the check [Selection] of the Opportunity search result.

It appears when you select the nominal observation condition in (1).

Follow the same steps as in Sections 7.1.1 or 7.1.2 to save the observation conditions.

Notes:

When changing observation conditions (nominal observation) that affect the opportunity search results, if you change the following items, be sure to click the [Opportunity search] button and follow the steps in Section 7.1.1.2 to save the observation conditions:

- Resolution
- Latitude
- Longitude
- Altitude
- Number of observation frames
- AT tolerance angle

7.1.4. Deleting Observation Conditions

In the [Condition] tab, select an observation condition from the [Observation list] area and click the [Delete] button.

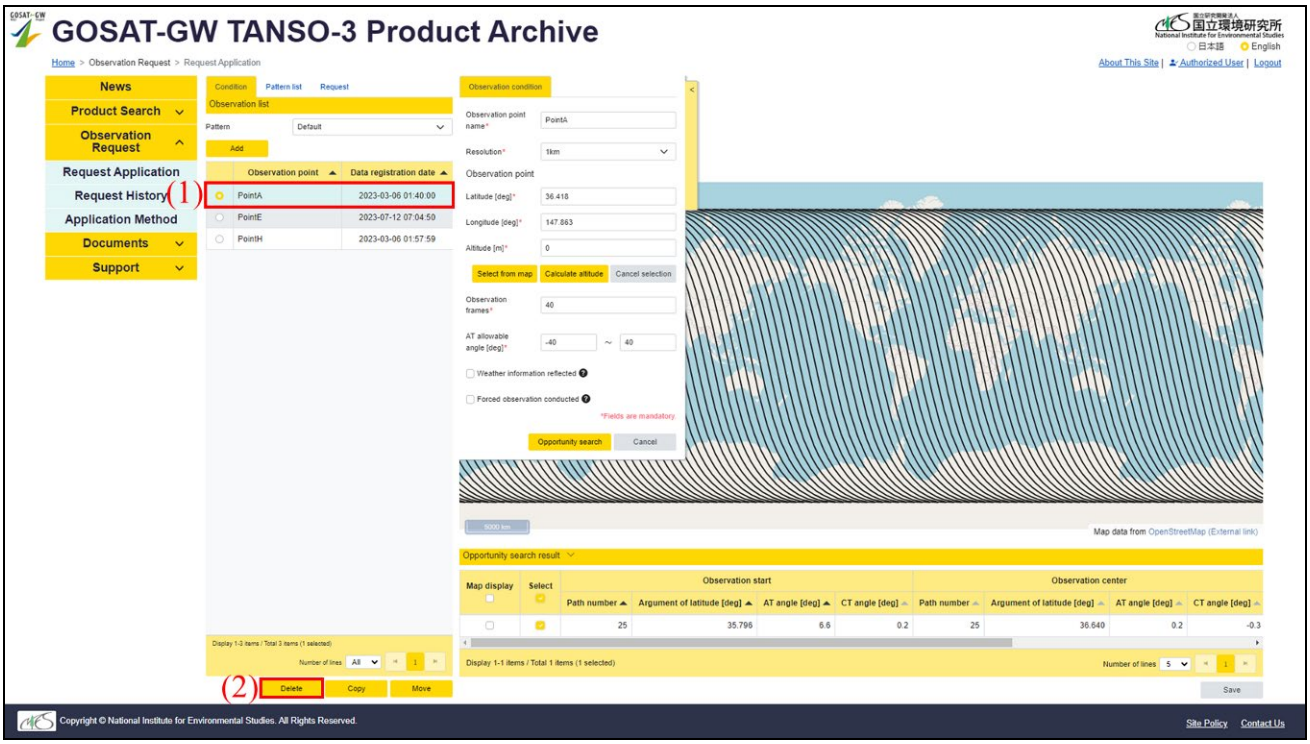


Figure 7-22 [Delete] Button

(1) [Observation point]

Select the observation condition.

(2) [Delete] Button

Deletes the selected observation condition. A [Confirmation] dialog appears.

Click the [Yes] button in the [Confirmation] dialog.

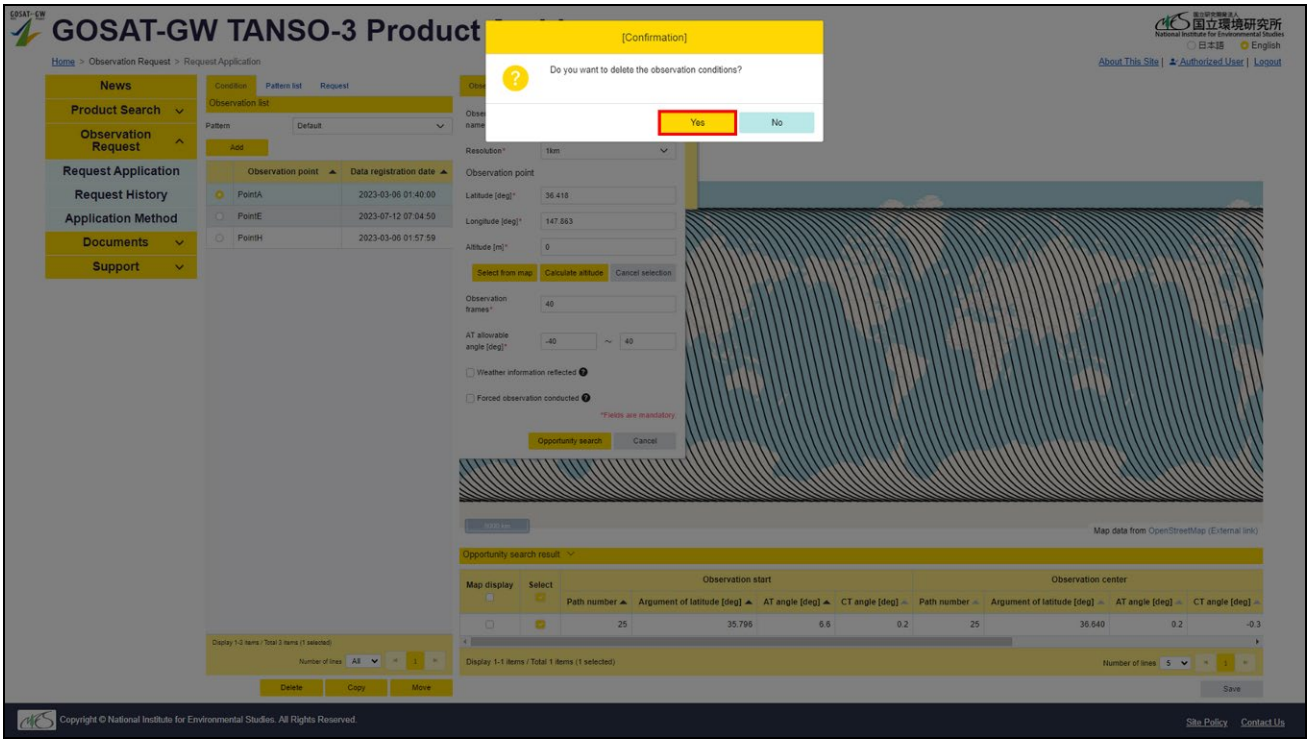


Figure 7-23 [Confirmation] Dialog for Deleting Observation Conditions

Once deletion is complete, an [Information] dialog appears. Click the [OK] button to close it.

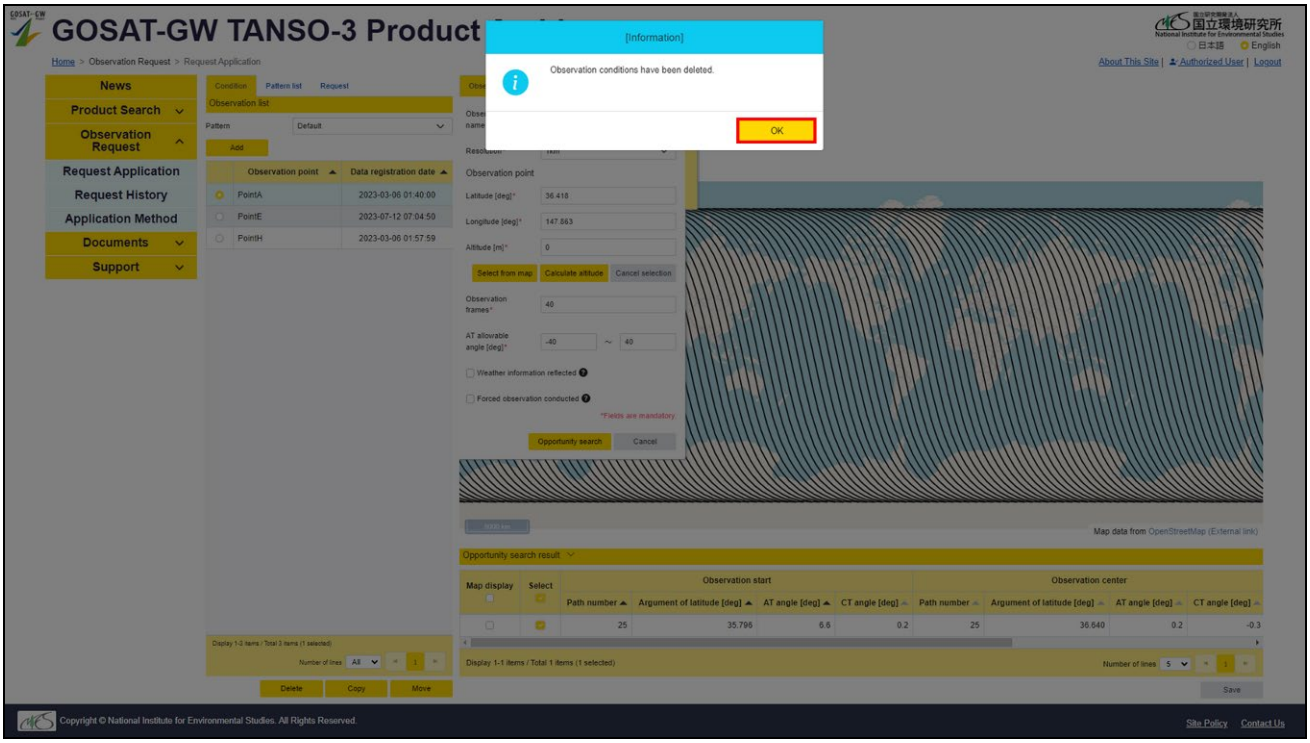


Figure 7-24 [Information] Dialog for Deleting Observation Conditions

7.1.5. Duplicating Observation Conditions

Duplicate an existing observation condition.

If you want to create a similar observation condition, you can easily do so by changing the observation condition using the steps in Section 7.1.3 after duplicating.

In the [Condition] tab, select an observation condition from the [Observation list] area and click the [Copy] button.

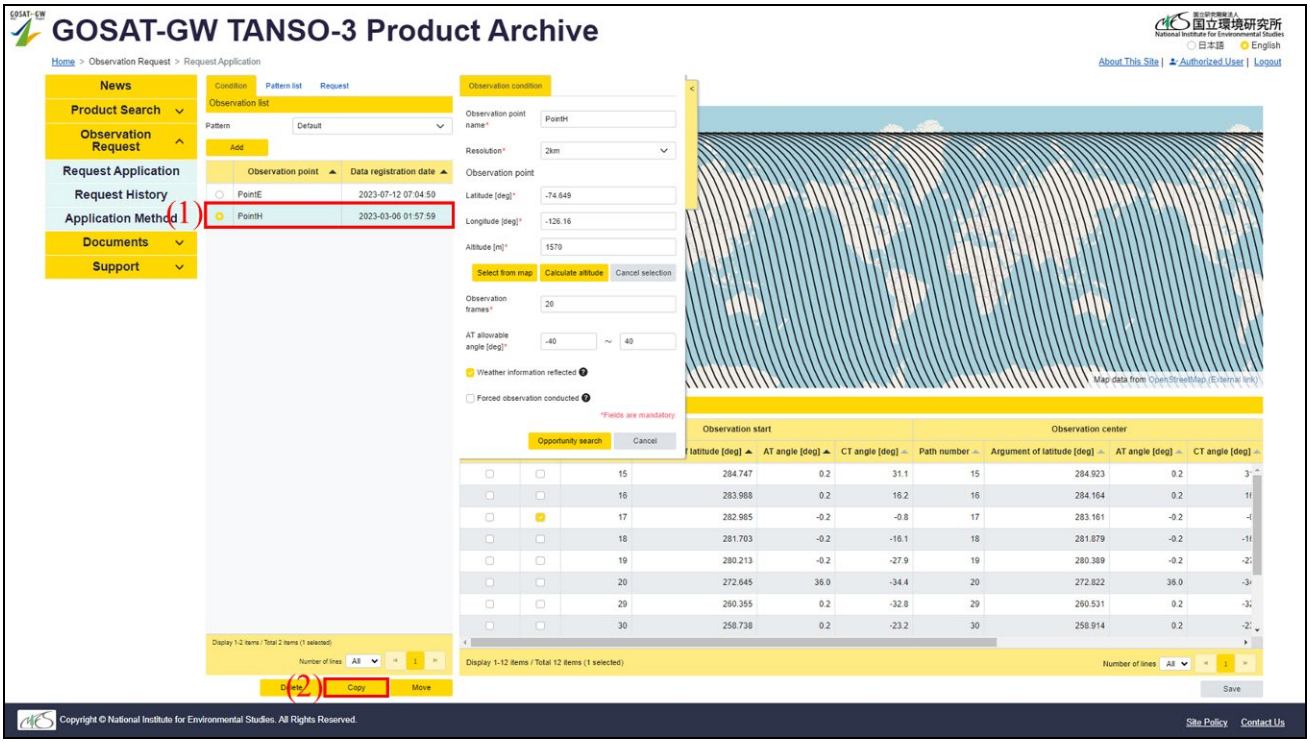


Figure 7-25 [Copy] button

(1) [Observation point]

Select the observation condition.

(2) [Copy] Button

Duplicates the selected observation condition.

The observation condition is duplicated.

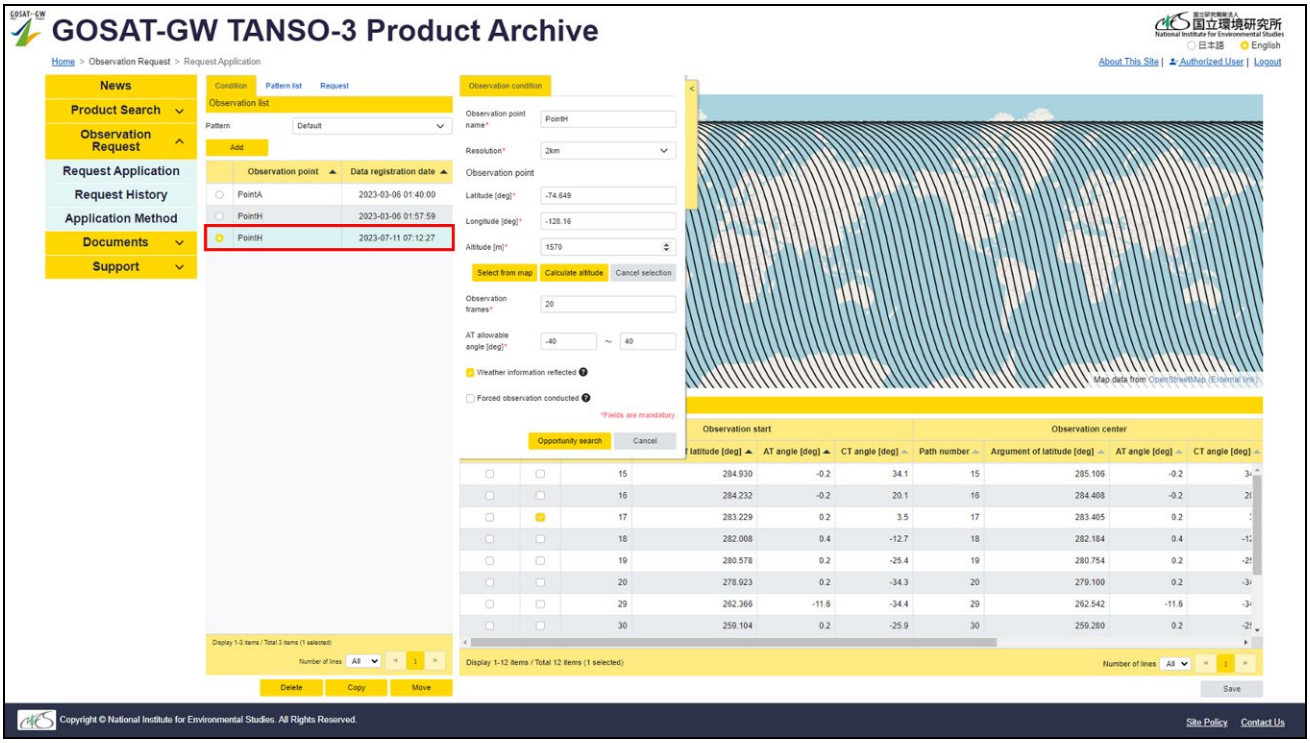


Figure 7-26 After Duplicating Observation Conditions

7.1.6. Moving Observation Conditions

Move an observation condition from the currently registered observation pattern to another observation pattern.

In the [Condition] tab, select an observation condition from the [Observation list] area and click the [Move] button.

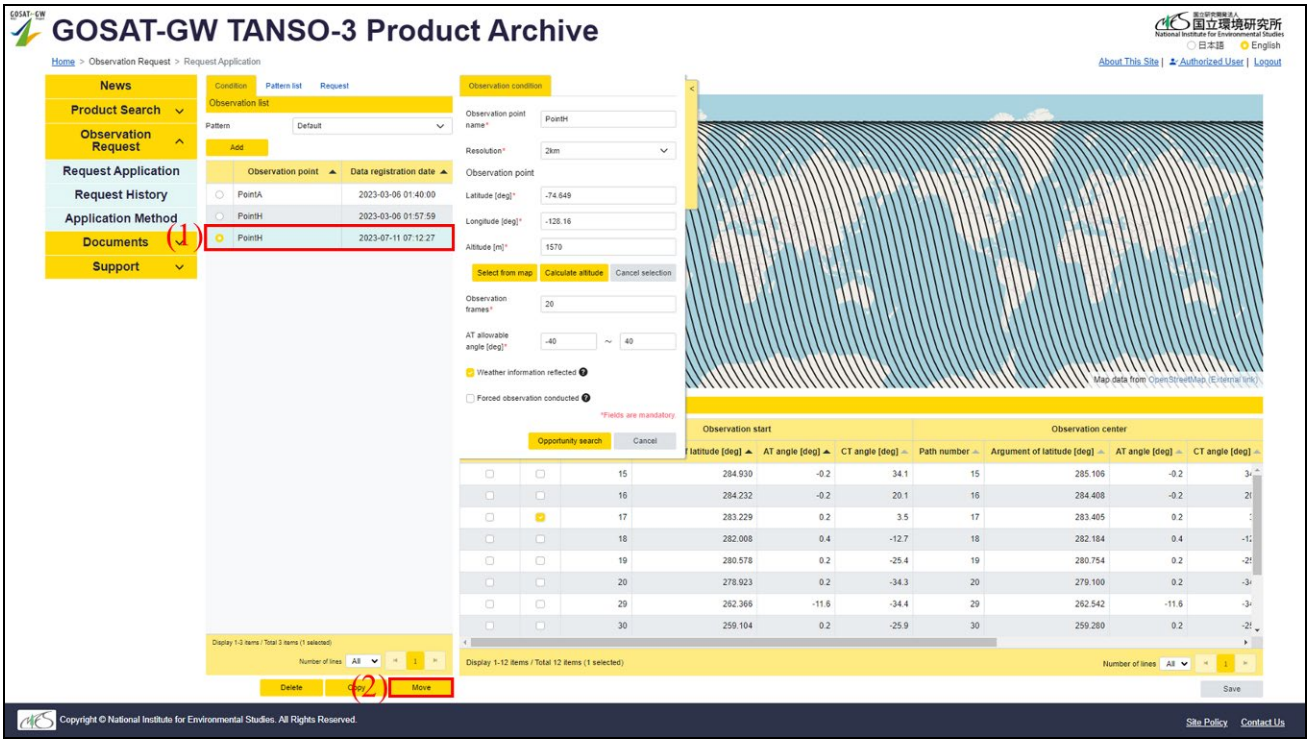


Figure 7-27 [Move] button

(1) [Observation point]

Select the observation condition.

(2) [Move] Button

Displays the [Observation Condition Move] screen.

In the [Observation Condition Move] screen, select the destination observation pattern and click the [Save] button.

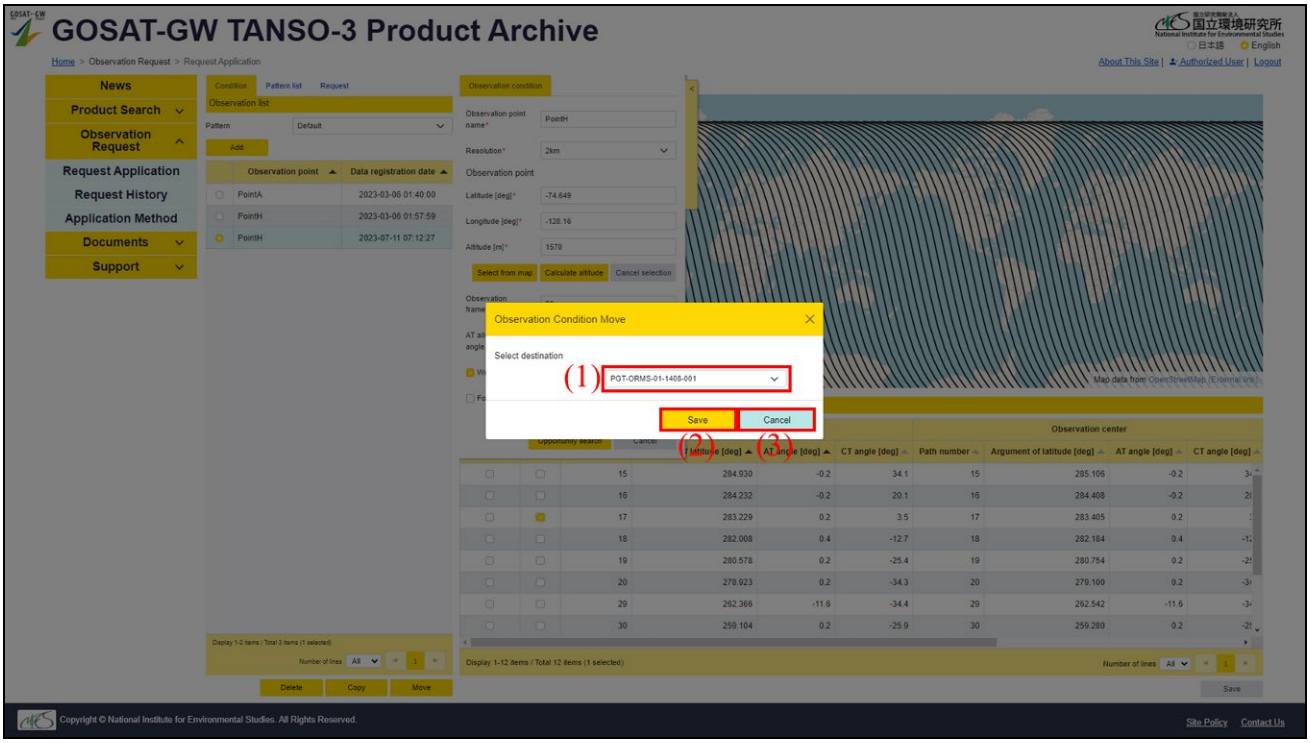


Figure 7-28 [Observation Condition Move] Screen

(1) [Observation Pattern]

Select the destination observation pattern.

(2) [Save] Button

Moves the observation condition.

(3) [Cancel] Button

Cancels the movement of the observation condition and returns to the original screen.

The observation condition is moved.

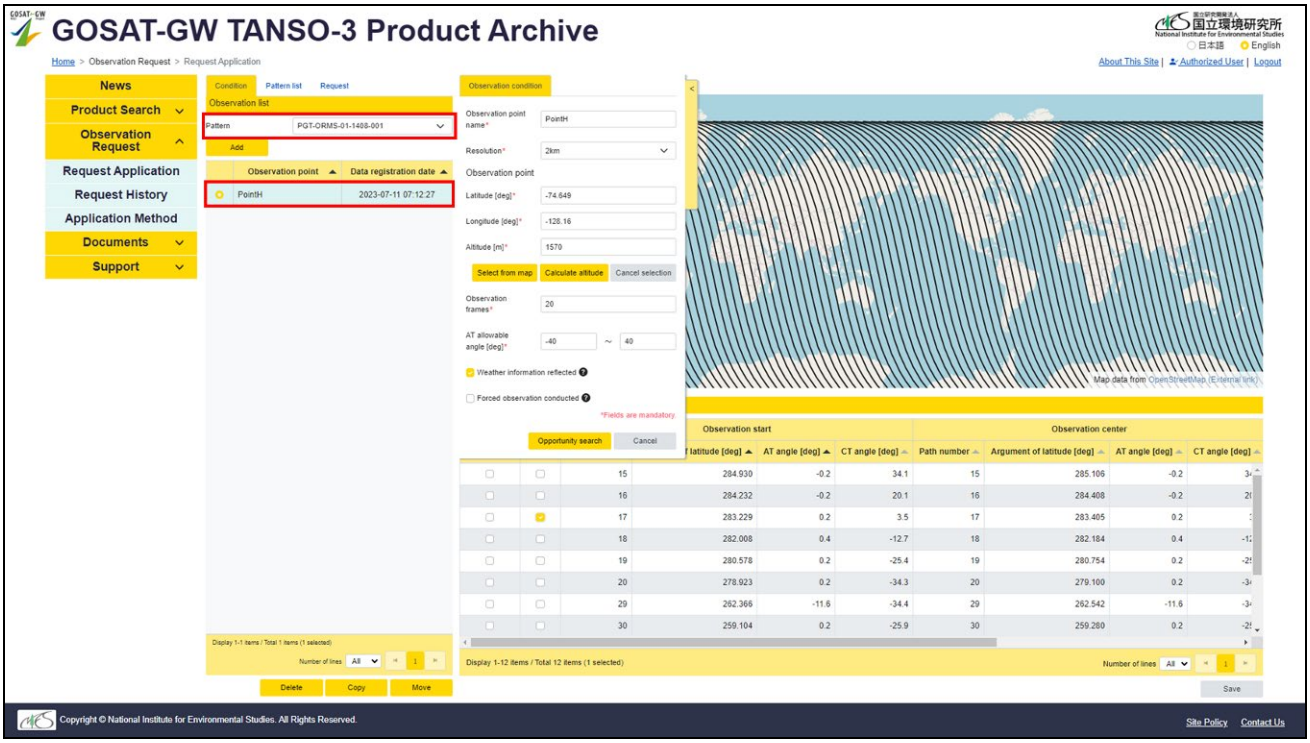


Figure 7-29 After Moving Observation Conditions

7.1.7. Adding New Observation Patterns

Adding new observation patterns is an optional operation. By adding new observation patterns, you can manage observation conditions with any desired observation pattern.

In the [Pattern list] tab, click the [New] button. The [Pattern detail] area opens, where you enter each item and click the [Add new pattern] button.

Figure 7-30 [Pattern list] Tab

(1) [Pattern list] Tab

Opens the [Pattern list] tab.

(2) [Add] Button

Opens the [Pattern detail] area.

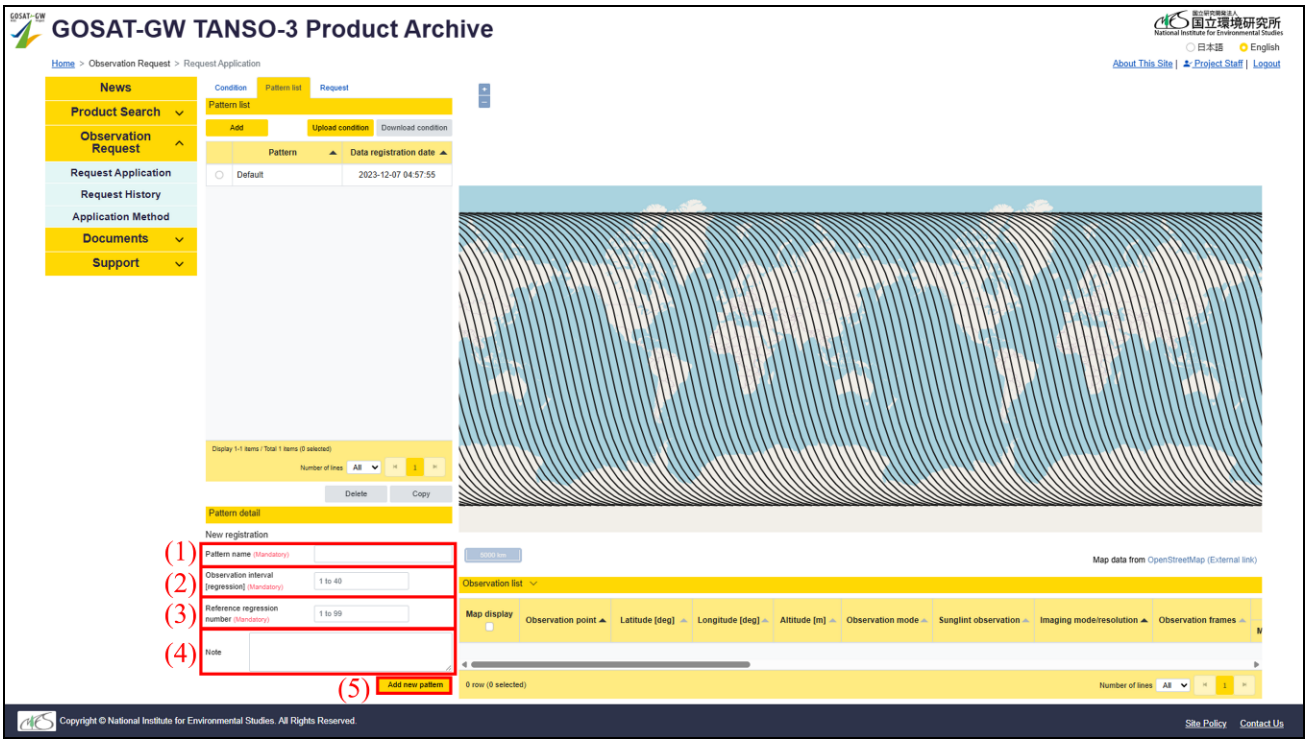


Figure 7-31 [Pattern detail] Area

(1) [Pattern name]

Enter the pattern name within 256 characters. Both half-width and full-width characters are counted as one character, and any characters exceeding the limit are truncated.

(2) [Observation Interval [regression]]

This item is used when you want to implement regression thinning during the application for observation requests. Enter the desired interval of regression. The input range is 1-40, and the input type is integer.

If you do not wish to implement regression thinning, enter '1'. For settings when implementing regression thinning, refer to Section 7.1.7.1.

(3) [Reference regression number]

This item is used when you want to implement regression thinning during the application for observation requests. Enter the base regression number for regression thinning. The input range is 1-99, and the input type is integer.

If you do not wish to implement regression thinning, enter '1'. For settings when implementing regression thinning, refer to Section 7.1.7.1.

(4) [Note]

Enter remarks within 512 characters. Both half-width and full-width characters are counted as one character, and any characters exceeding the limit are truncated.

(5) [Add new pattern] Button

Saves the entered observation pattern.

Click the [Yes] button in the [Confirmation] dialog.

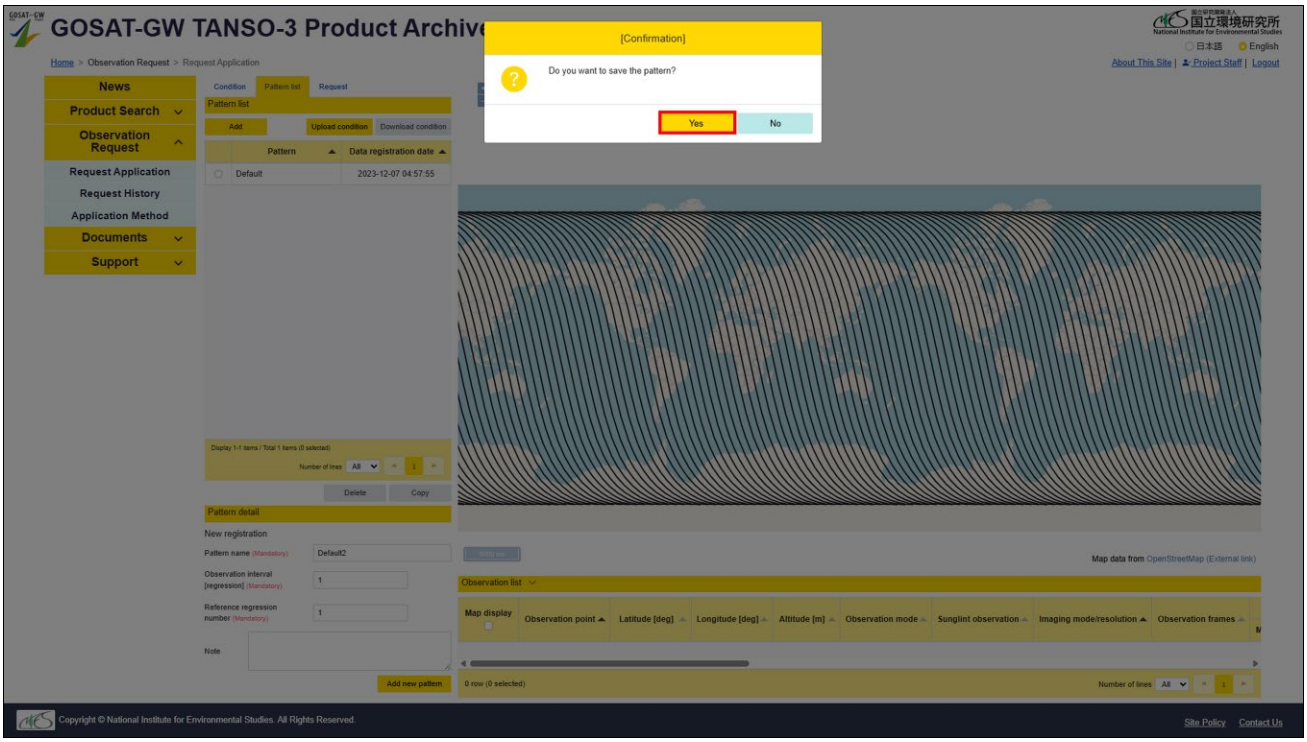


Figure 7-32 [Confirmation] Dialog at Pattern Save

Once the pattern is saved, an [Information] dialog will appear, click the [OK] button.

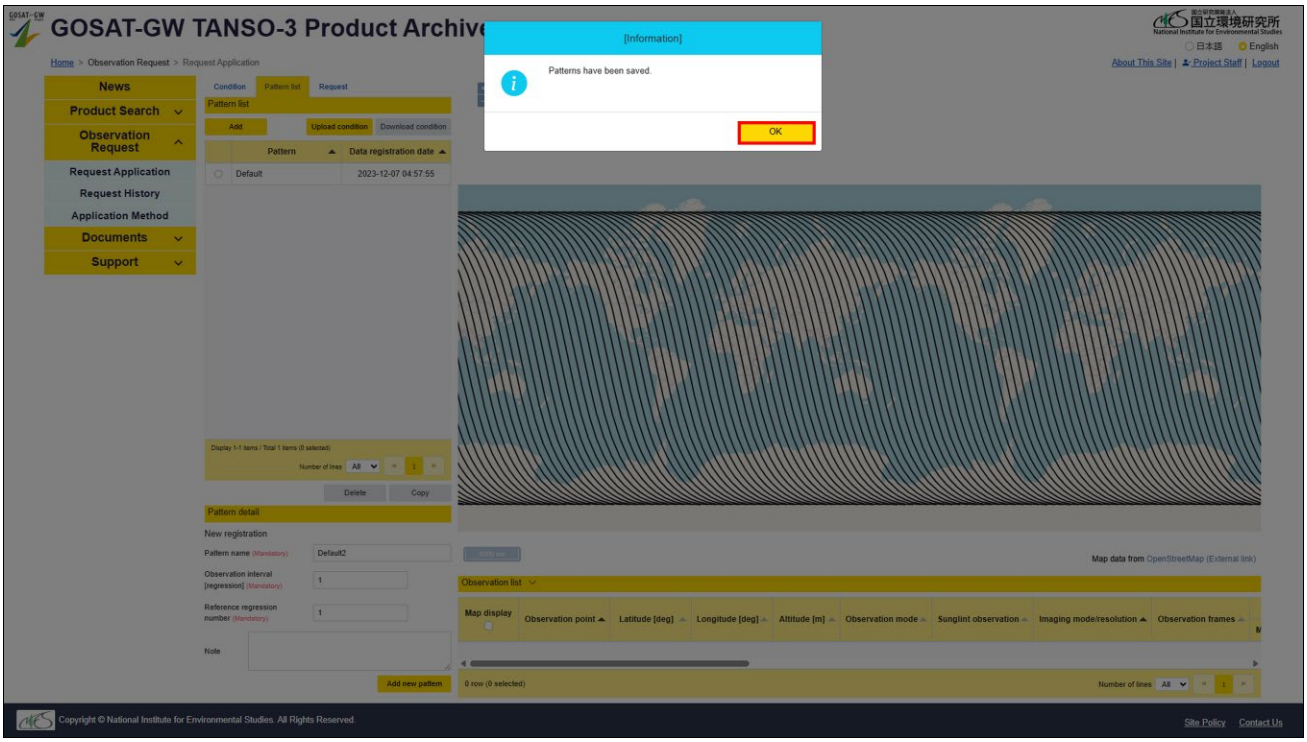


Figure 7-33 [Information] Dialog after Pattern Save

The pattern will be added to the [Pattern list] tab.

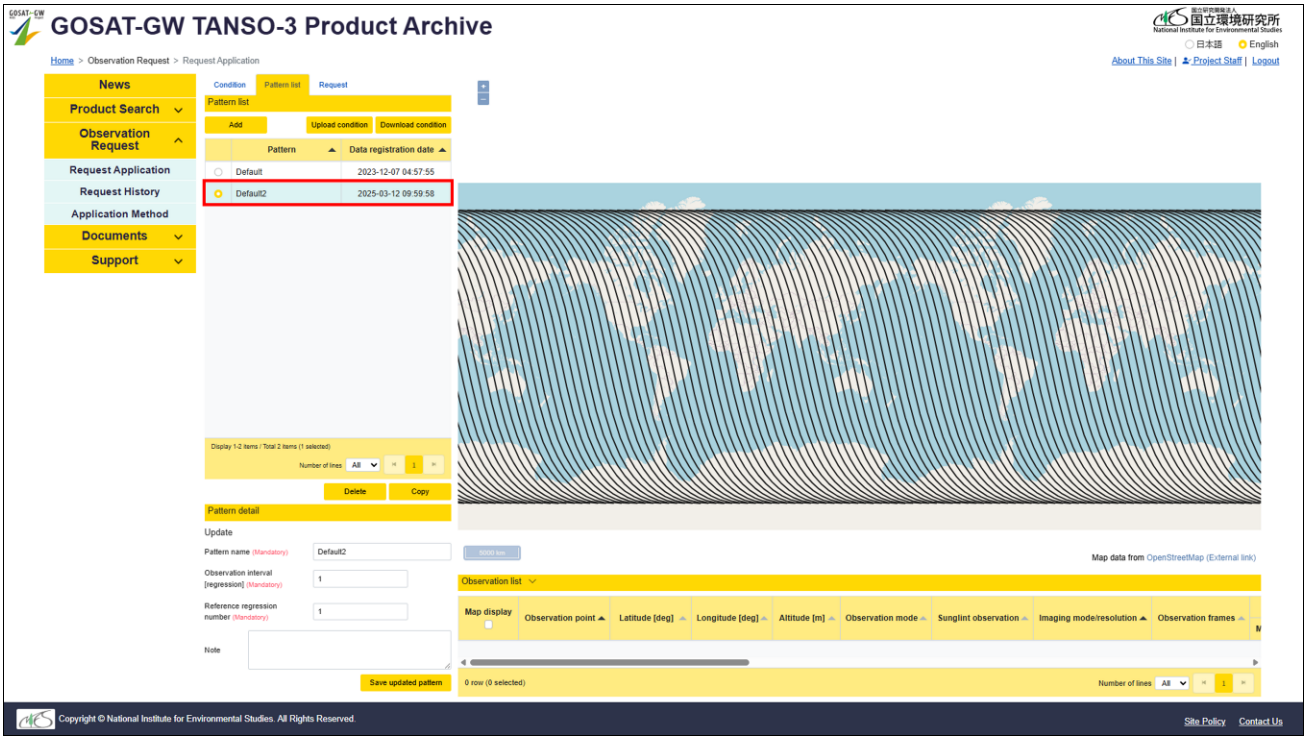


Figure 7-34 After Adding the Pattern

7.1.7.1. Setting Examples for Observation Interval [Orbit] and Reference Orbit Number

When applying for observation requests and you want to implement orbit skipping, the following three examples explain what values should be set for [Observation Interval [Orbit]] and [Reference Orbit Number] mentioned in Section 7.1.7:

- Simple method for setting orbit skipping
- Changing observation patterns for each orbit
- Determining observation patterns based on the results of candidate calculations for observation requests

First, let's explain the basic definitions. The division of total orbit numbers is at the ascending node, and it increments by +1 as it passes the ascending node. The division of path numbers is also at the ascending node, incrementing by +3 as it passes, although path numbers cycle through values from 1 to 44. On the other hand, the division of orbits is at the descending node (latitude argument 180 degrees), and it increments by +1 as it passes the descending node.

Additionally, the path number and total orbit number for orbit number 1 are defined by the system, with the path number being 8, and the total orbit number being 1. Figure 7-35 illustrates the definition of an orbit when the path number is set to 2 and the total orbit number to 1 for orbit number 1. The following examples will also explain using the path number 2 and total orbit number 1 for orbit number 1. For the method of applying for observation requests using the created observation pattern, please refer to Section 7.1.13.

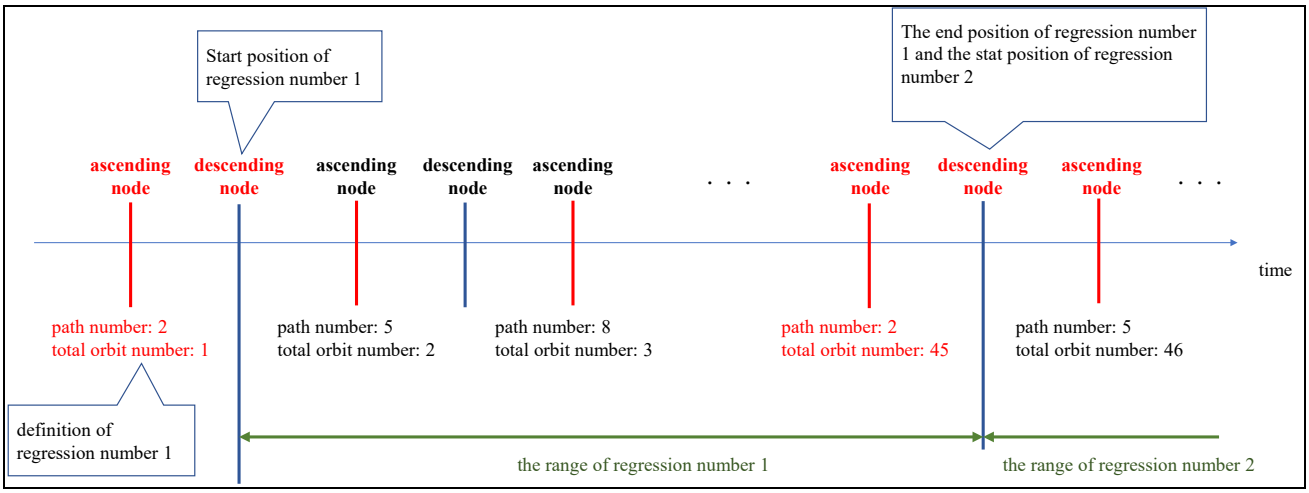


Figure 7-35 Definition of an Orbit

(1) Simple Regression Interval Setting Method

To explain a simple regression interval setting example, we will describe a setting method that repeats the observation pattern every 30 days.

Since 30 days correspond to 10 regressions, set 10 in [Observation Interval [Regression]].

Please set the regression number that will serve as the basis for the regression interval in [Base Regression Number]. For example, if the reference regression number is set to 1, then regression 1, 11, 21, 31 will be regressions that are not thinned out. If you set 10 in [Observation Interval [Regression]] and 1 in [Base Regression Number], you will obtain an observation pattern as shown in Figure 7-36.

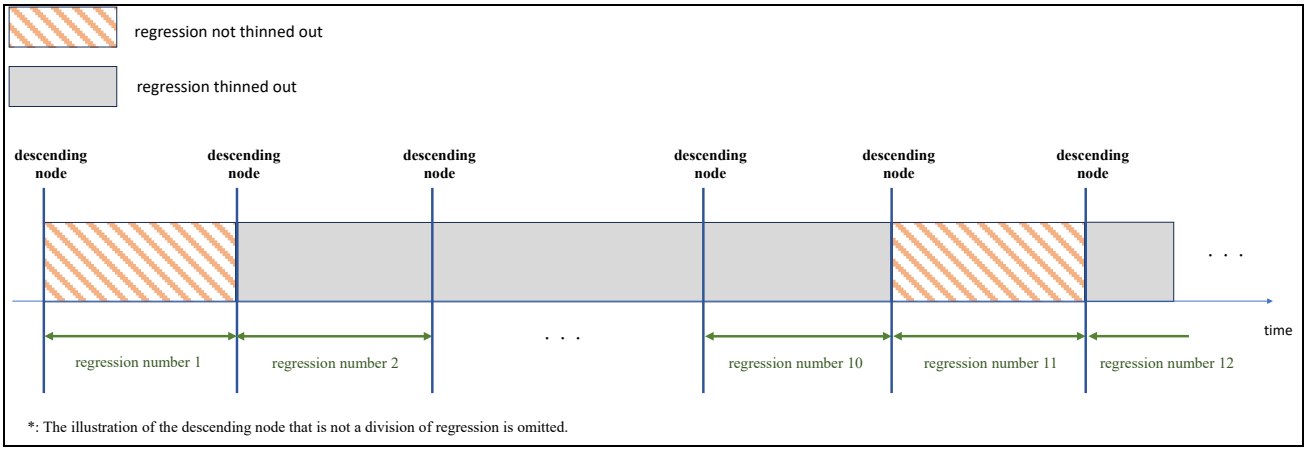


Figure 7-36 Observation Pattern with [Observation Interval [Regression]] 10 and [Base Regression Number] 1

(2) Method to Change Observation Patterns by Regression

As an example of changing observation patterns by regression, we will explain the setting method for observing three observation patterns (hereafter, Observation Patterns A, B, C) every two regressions.

By setting the [Observation Interval [Regression]] and [Base Regression Number] for Observation Patterns A, B, and C as follows, you can obtain an observation pattern as shown in Figure 7-37.

Observation Pattern A: Set [Observation Interval [Regression]] to 3 and [Base Regression Number] to 1

Observation Pattern B: Set [Observation Interval [Regression]] to 3 and [Base Regression Number] to 2

Observation Pattern C: Set [Observation Interval [Regression]] to 3 and [Base Regression Number] to 3

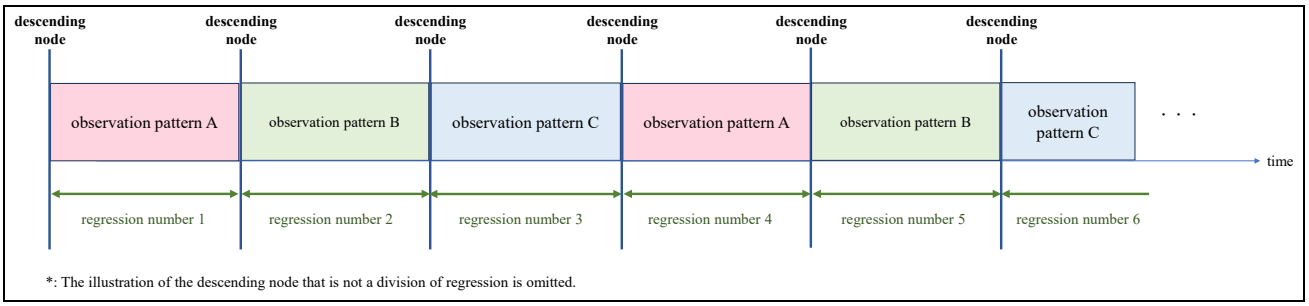


Figure 7-37 Observation Pattern Observing Every Two Regressions with Three Patterns (Patterns A, B, C)

(3) Method to Determine Observation Patterns Based on Candidate Calculation Results for Observation Requests

In Section 7.1.13.1, by specifying [Desired Observation Period], [Observation Pattern], and [Observation Site Name], candidates for observation requests that meet the conditions will be presented. The information presented is as shown in Table 7.1-4, including the total orbit number information at the start/center/end of observation.

Here, we will explain the setting method to create an observation pattern for each regression, for example, where the observation request with [Start Total Orbit Number] 50 is skipped, based on the results of candidate calculation for observation requests.

Figure 7-38 illustrates a part of regression numbers 1 and 2. Since the total orbit number 50 is included in the range of regression number 2 (from the descending node of total orbit number 45 to the descending node of total orbit number 89), it is clear that an observation pattern needs to be created that skips regression number 2.

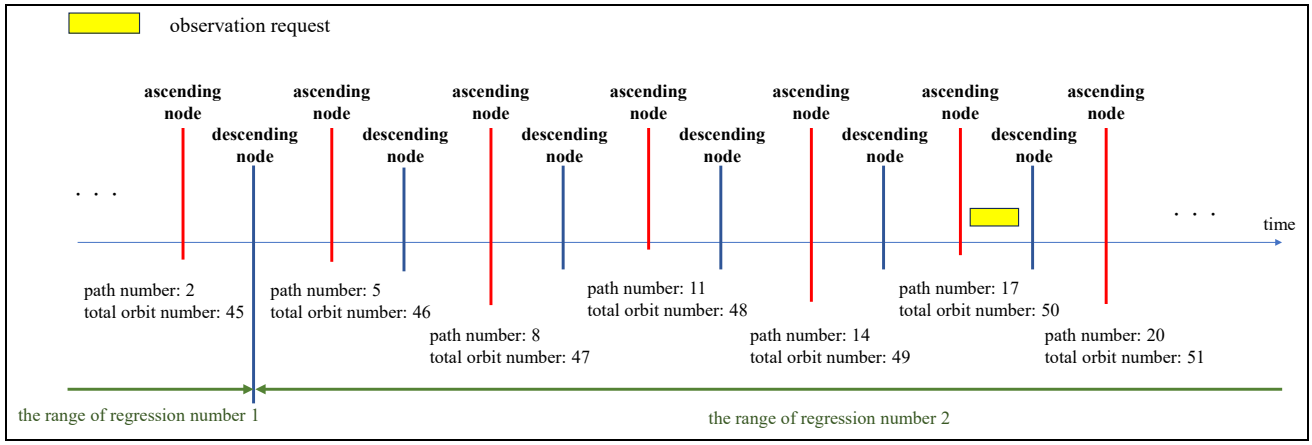


Figure 7-38 Regression number of the total orbit number 50

Therefore, by setting the [Observation Interval [Orbit]] to 2 and the [Reference Orbit Number] to 1, an observation pattern can be created that skips every second orbit, starting from orbit number 2.

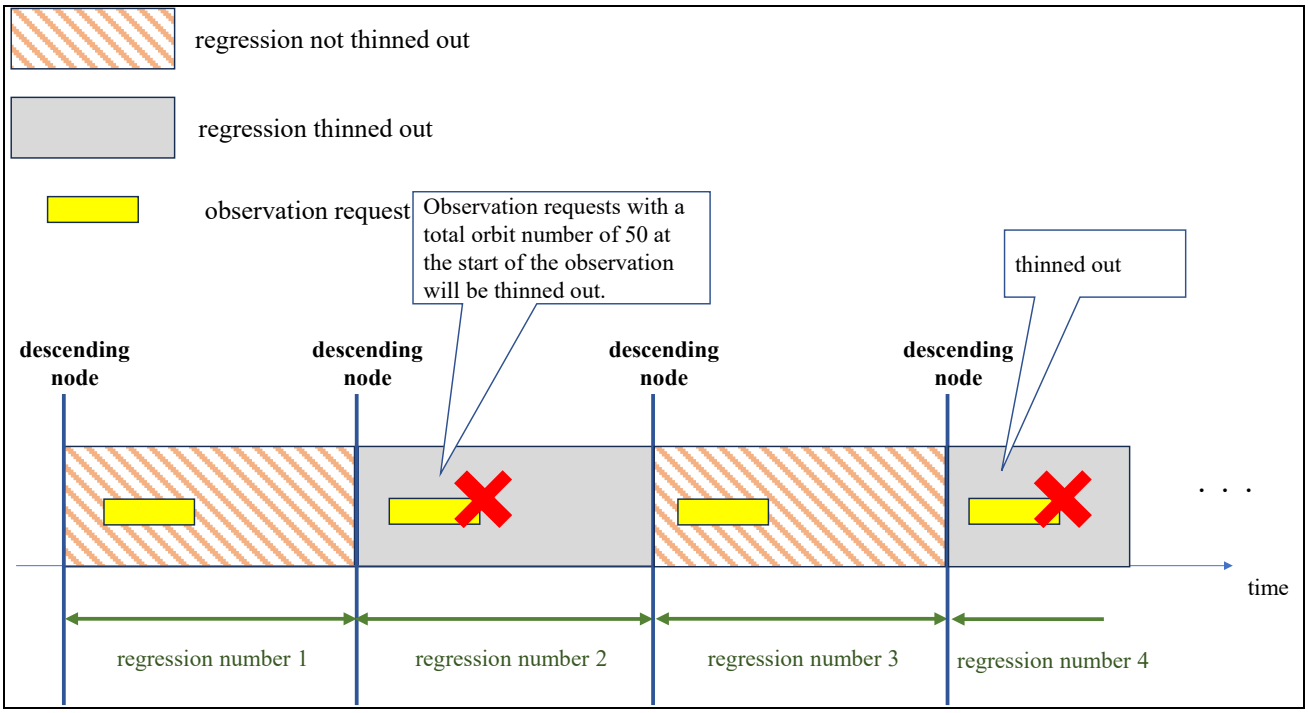


Figure 7-39 shows the observation pattern with orbit number 2 skipped.

7.1.8. Observation Condition Download

To download the desired pattern, select the pattern name under the [Pattern list] tab and click the [Download conditions] button.

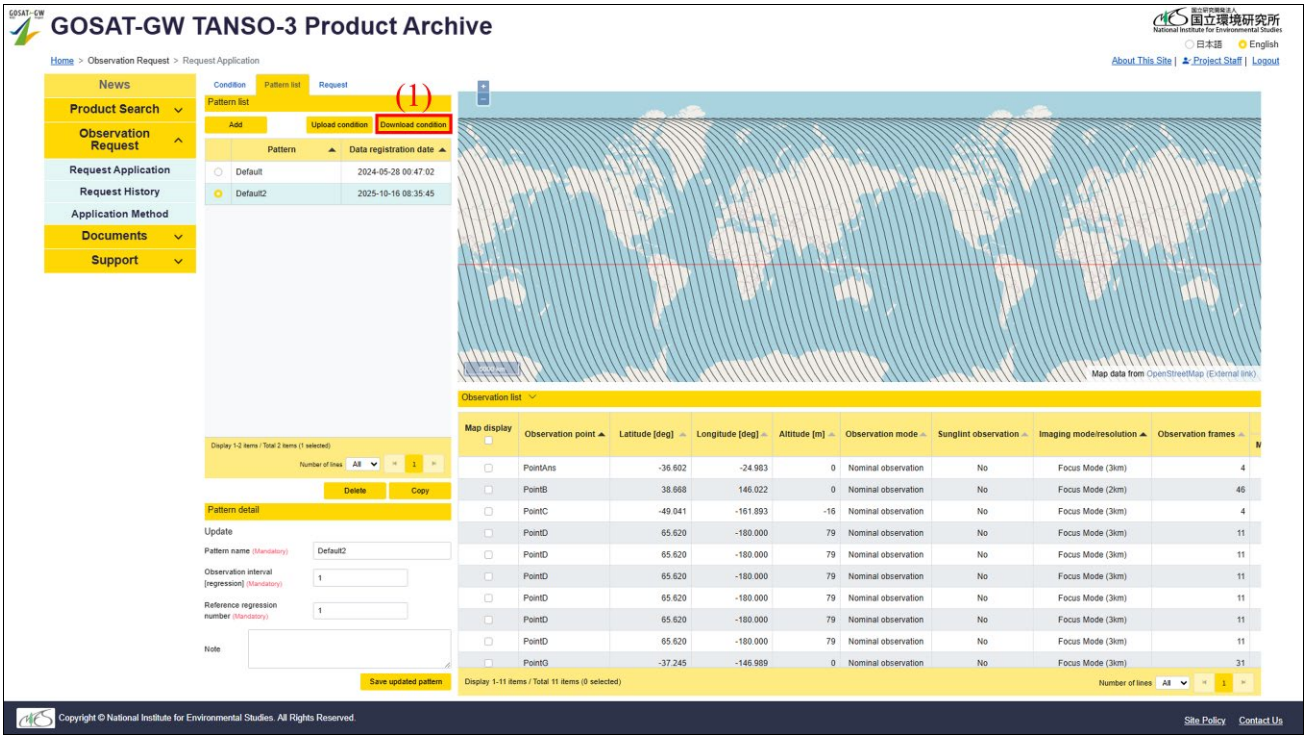


Figure 7-40 [Download conditions] button

(1) [Download condition] Button

Download the observation conditions of the selected pattern in CSV format.

The file content is as follows. If there are multiple search results for opportunities corresponding to observation conditions No.1 to 13, the observation conditions for the second and subsequent search results will be empty (see Figure 7-41).

Table 7.1-2 Observation Condition File Item Names

No.	Item Name	Description
1	Pattern	Displays the name of the observation condition pattern.
2	Observation point	Displays the name of the observation site
3	Observation mode	Displays the observation mode.
4	Resolution	Displays the resolution.
5	Observation center latitude	Displays the latitude of the observation site.
6	Observation center longitude	Displays the longitude of the observation site.
7	Observation center altitude	Displays the altitude of the observation site.
8	Observation frames	Displays the number of observation frames.
9	AT allowable angle min	Displays the minimum allowable AT angle (off-nadir angle).
10	AT allowable angle max	Displays the maximum allowable AT angle (off-nadir angle).
11	Weather information reflected	Displays whether weather information is reflected. - true: Reflects weather information. - false: Does not reflect weather information.
12	Sunglint Observation	Displays whether it is a sun glint observation.

Table 7.1-2 Observation Condition File Item Names

No.	Item Name	Description
		- true: Sunglint observation - false: Nominal observation
13	Forced observation conducted	Displays whether mandatory observation is conducted. - true: Observations are conducted even if sun glint occurs. - false: Observations are not conducted if sun glint occurs.
14	Observation start path number	Displays the path number at the start of observation.
15	Observation start argument of latitude	Displays the latitude argument at the start of observation.
16	Observation start AT angle	Displays the AT angle (off-nadir angle) at the start of observation.
17	Observation start CT angle	Displays the CT angle (off-nadir angle) at the start of observation.
18	Observation center path number	Displays the path number at the center of observation.
19	Observation center path latitude	Displays the latitude argument at the center of observation.
20	Observation center AT angle	Displays the AT angle (off-nadir angle) at the center of observation.
21	Observation center CT angle	Displays the CT angle (off-nadir angle) at the center of observation.
22	Observation end path number	Displays the path number at the end of observation.
23	Observation end argument latitude	Displays the latitude argument at the end of observation.
24	Observation end AT angle	Displays the AT angle (off-nadir angle) at the end of observation.
25	Observation end CT angle	Displays the CT angle (off-nadir angle) at the end of observation.
26	Observation area Polygon	Displays the polygon information of the observation area.
27	Adoption flag	Displays whether the search result is adopted, referring to the [Select] item in Table 7.1-2 on the [Request Application] screen. For sun glint observation conditions, true is uniformly displayed. The search results whose [Adopting flag] is true are used in calculation of observation request candidates. - true: Adopted. - false: Not adopted.

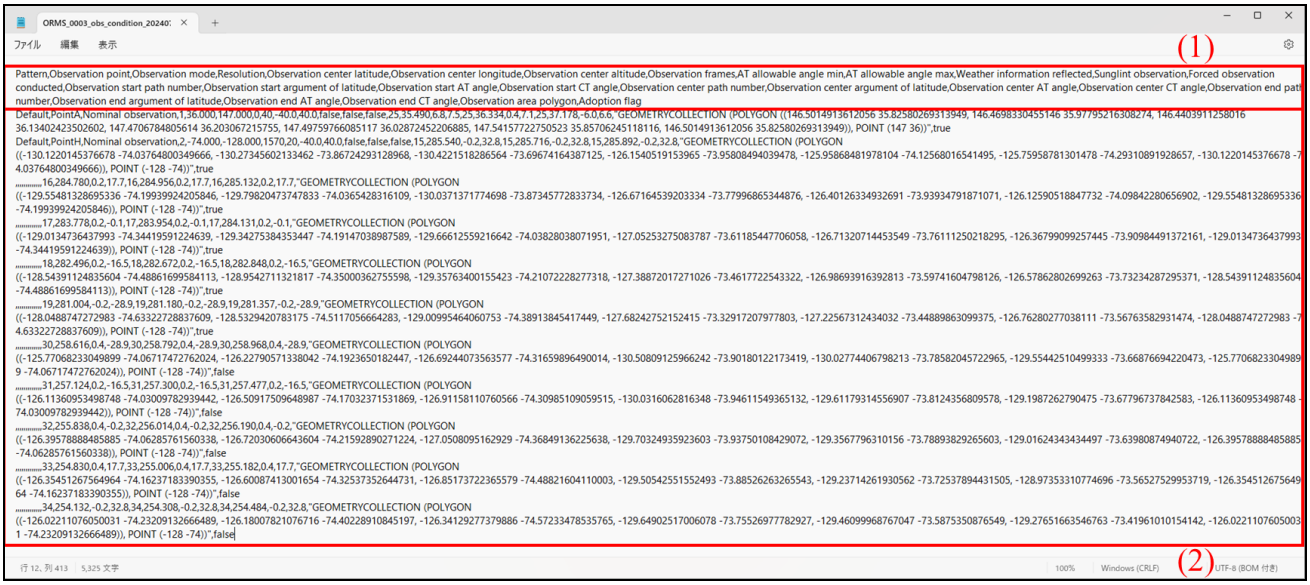
Figure 7-41 Observation Condition File (Download)

7.1.9. Uploading Observation Conditions

The observation conditions file is in CSV format. The file format is identical to the one that can be downloaded in Section 7.1.8.

Notes:

Do not upload CSV files edited with Microsoft Excel, as this may cause format corruption.


ORMS_0003_obs_condition_20240
ファイル 編集 表示
(1)
Pattern,Observation point,Observation mode,Resolution,Observation center latitude,Observation center longitude,Observation center altitude,Observation frames,AT allowable angle min,AT allowable angle max,Weather information reflected,Sunglint observation,Forced observation conducted,Observation start path number,Observation start argument of latitude,Observation start AT angle,Observation start CT angle,Observation center path number,Observation center argument of latitude,Observation center AT angle,Observation center CT angle,Observation end path number,Observation end argument of latitude,Observation end AT angle,Observation end CT angle,Observation area polygon,Adoption flag
Default,PointA,Nominal observation,1,36.000,147.000,0,40,-40,0,40,0,false,false,false,25,35.490,6.8,7.5,25,36.334,0,4,7,1,25,37.178,-8,0,6,6,"GEOMETRYCOLLECTION (POLYGON ((146.50149136120560 35.82580269313949, 146.46988304551460 35.97795216308274, 146.44039112580160 36.13402423502602, 147.47067848056140 36.20306721575500, 147.49759766085117 36.02872452206885, 147.54157722750523 35.85706245118116, 146.50149136120560 35.82580269313949)), POINT (147 36))",true
Default,PointH,Nominal observation,2,-74.000,-128.000,1570,20,-40,0,40,0,false,false,false,15,285.540,-0.2,32.8,15,285.716,-0.2,32.8,15,285.892,-0.2,32.8,"GEOMETRYCOLLECTION (POLYGON ((-130.12201453766780 -74.03764800349666, -130.27345602133462 -73.86724293128968, -130.42215182865640 -73.69674164387125, -126.15405191535965 -73.95808494039478, -125.95868481978104 -74.12568016541495, -125.75958781301478 -74.29310891928657, -130.12201453766780 -74.03764800349666)), POINT (-128 -74))",true
,,,

① Method similar to screen input (Nominal Observation)

This method involves performing the operations described in Section 7.1.1 using a file.

Similar to operations from the screen, the system presents satellite positions (path number, latitude argument) that are closest directly below within the range of the entered AT allowable angle and within the drive limit angle ±34.4 [deg] in the CT direction, based on the observation conditions entered by the user.

The specified observation conditions are the same as those in Section 7.1.1.

Please refer to Table 7.1-3 for detailed specifications of each item.

Notes:

If multiple search results are presented, save the observation conditions by selecting the search result that is closest directly below. If you want to change, modify the selection criteria in the [Selection] item of the [Opportunity search result] area according to the procedure for changing observation conditions described in Section 7.1.3.

② Method of specifying satellite positions (Nominal Observation)

In addition to the observation conditions in Section 7.1.1, this method saves the observation conditions if the specified satellite position (observation center path number and observation center latitude argument) allows the desired ground point to be observed.

This method is effective when you already know from which satellite position (path, latitude argument) you want to observe.

Please refer to Table 7.1-3 for detailed specifications of each item.

Notes:

If you want to specify multiple observation center path numbers and observation center latitude arguments, leave the corresponding observation conditions (3 No.1-13) blank for the second and subsequent entries. For a specific example, please refer to lines 3-4 (observation point name: PointC) in Figure 7-42.

③ Method similar to screen input (Sung lint Observation)

This method involves performing the operations described in Section 7.1.2 using a file.

Similar to operations from the screen, specify the satellite position (path number and latitude argument) flying near the sea area where you want to conduct sun glint observation. The specified satellite position becomes the observation center satellite position.

Note that sun glint occurrence points cannot be calculated at the time of adding observation conditions. Sunglint occurrence points will be presented in the subsequent Section 7.1.13.1 Candidate Calculation for Observation Requests.

The specified observation conditions are the same as those in Section 7.1.2.

Please refer to Table 7.1-3 for detailed specifications of each item.

Restrictions:

Only users with the appropriate privileges can apply for sun glint observation requests.

Table 7.1-3 Methods of Describing Observation Conditions

No.	Item Name	Method of Describing Observation Conditions		
		①Similar to Screen Input (Nominal Observation)	②Specifying Satellite Position (Nominal Observation)	③Similar to Screen Input (Sunglint Observation)
1	Pattern	Not required as it will be specified later in the [Upload Observation Condition] screen.		
2	Observation point	Mandatory item. Please specify the observation site name within 256 characters. Both half-width and full-width characters are counted as one character.		
3	Observation mode	Not required.		
4	Resolution	Mandatory item. Please specify with a number from 1 to 3. Applications other than for file mode observation are not accepted. Resolution 1km mode: 1 Resolution 2km mode: 2 Resolution 3km mode: 3		
5	Observation center latitude	Mandatory item. Please specify the latitude of the observation site. It can be specified up to the third decimal place. If entered beyond the third place, it will be rounded. The input range, as in Section 7.1.1.1 (4) [Observation point], is as follows: -90.000 to 90.000 [deg]		Not required.
6	Observation Center Longitude	Mandatory item. Please specify the longitude of the observation site. It can be specified up to the third decimal place. If entered beyond the third place, it will be rounded. The input range, as in Section 7.1.1.1 (4) [Observation point], is as follows: -180.000 to 180.000 [deg]		
7	Observation center altitude	Mandatory item. Please specify the altitude of the observation site as an		

Table 7.1-3 Methods of Describing Observation Conditions

No.	Item Name	Method of Describing Observation Conditions		
		①Similar to Screen Input (Nominal Observation)	②Specifying Satellite Position (Nominal Observation)	③Similar to Screen Input (Sunglint Observation)
		integer. If the value includes decimals, the decimal part will be truncated. The input range, as in Section 7.1.1.1 (4) [Observation point], is as follows: -10000 to 10000 [m]		
8	Observation frames	Mandatory item. Please specify the number of observation frames as an integer. The value of the observation frames is proportional to the observation time. If you want a longer observation time, set a higher value. The range of possible frame numbers depends on the resolution. If the value includes decimals, the decimal part will be truncated. The input ranges, as in Section 7.1.1.1 (5) [Observation Frame Number], are as follows: For 1km resolution: 3 to 91 For 2km resolution: 6 to 46 For 3km resolution: 4 to 31		
9	AT allowable angle (min)	Mandatory item. Specify the allowable AT angle (off-nadir angle) up to the first decimal place. If entered beyond the first place, it will be rounded. The positive side refers to the satellite's forward direction, and the negative side refers to the opposite direction of the satellite's forward movement. In method ①, the specified AT allowable angle range will be used to present the satellite position (path, latitude argument) that is closest to directly below and within the CT direction drive limit angle ±34.4 [deg] through opportunity search. To broaden the search range in opportunity search, it is recommended to set the AT allowable angle to the maximum range shown in Section 7.1.1.1 (6) [AT allowable angle [deg]]. Especially if you want to conduct high-latitude observations, setting the AT allowable angle to the maximum range will make it easier to present more candidates from multiple paths. On the other hand, if you want to conduct observations with a specific AT angle or within a specific range of AT angles, please set the AT allowable angle accordingly. In method ②, it will check if the specified satellite position and the desired ground point to be observed are within the specified AT allowable angle range and the CT direction drive limit angle ±34.4 [deg], and if they are observable, the results will be presented. Here too, it is recommended to set the AT allowable angle to the maximum range shown in Section 7.1.1.1 (6) [AT allowable angle [deg]]. The input range, as in Section 7.1.1.1 (6) [AT allowable angle [deg]], is as follows: -40.0 to 40.0 [deg]		Not required.
10	AT allowable angle (max)			
11	Weather information reflected	Mandatory item. Specify whether to reflect weather information. - true: Weather information will be reflected.		Not required.

Table 7.1-3 Methods of Describing Observation Conditions

No.	Item Name	Method of Describing Observation Conditions		
		①Similar to Screen Input (Nominal Observation)	②Specifying Satellite Position (Nominal Observation)	③Similar to Screen Input (Sunglint Observation)
		- false: Weather information will not be reflected.		
12	Sunglint observation	Mandatory item. Specify whether to conduct sunglint observation. - true: Sunglint observation - false: Nominal observation		
13	Forced observation conducted	Mandatory item. Specify whether to conduct forced observation. - true: Observations will be conducted even if sunglint occurs. - false: Observations will not be conducted if sunglint occurs.		Not required.
14	Observation start path number	Not required.		
15	Observation start argument of latitude			
16	Observation start AT angle			
17	Observation start CT angle			
18	Observation center path number	Not required.	Mandatory item. Please specify the path number at the observation center as an integer. If the value includes decimals, the decimal part will be truncated. The input range, as in Section 7.1.2.1 (4) [Path number] / [Argument of latitude], is as follows: 1 to 44	
19	Observation center argument of latitude		Mandatory item. Please specify the latitude argument at the observation center. It can be specified up to the third decimal place. If entered beyond the third place, it will be rounded. The input range, as in Section 7.1.2.1 (4) [Path number] / [Argument of latitude], is as follows: 0.000 to 359.999[deg]	
20	Observation center AT angle	Not required.		
21	Observation center CT angle			
22	Observation end path number			
23	Observation end argument of latitude			
24	Observation end AT angle			
25	Observation end CT angle			
26	Observation area polygon			
27	Adoption Flag	Not required.	Mandatory item. Please specify at least one item as true. - true: Will be adopted.	Not required.

Table 7.1-3 Methods of Describing Observation Conditions

No.	Item Name	Method of Describing Observation Conditions		
		①Similar to Screen Input (Nominal Observation)	②Specifying Satellite Position (Nominal Observation)	③Similar to Screen Input (Sunglint Observation)
			- false: Will not be adopted.	

[Pattern list] tab, click the [Upload Condition] button. The [Upload Observation Condition] screen will be displayed. Enter each item, select the observation conditions file, and click the [Save] button.

Figure 7-43 [Upload Condition] button

(1) [Upload condition] Button

Displays the [Upload Observation Condition] screen.

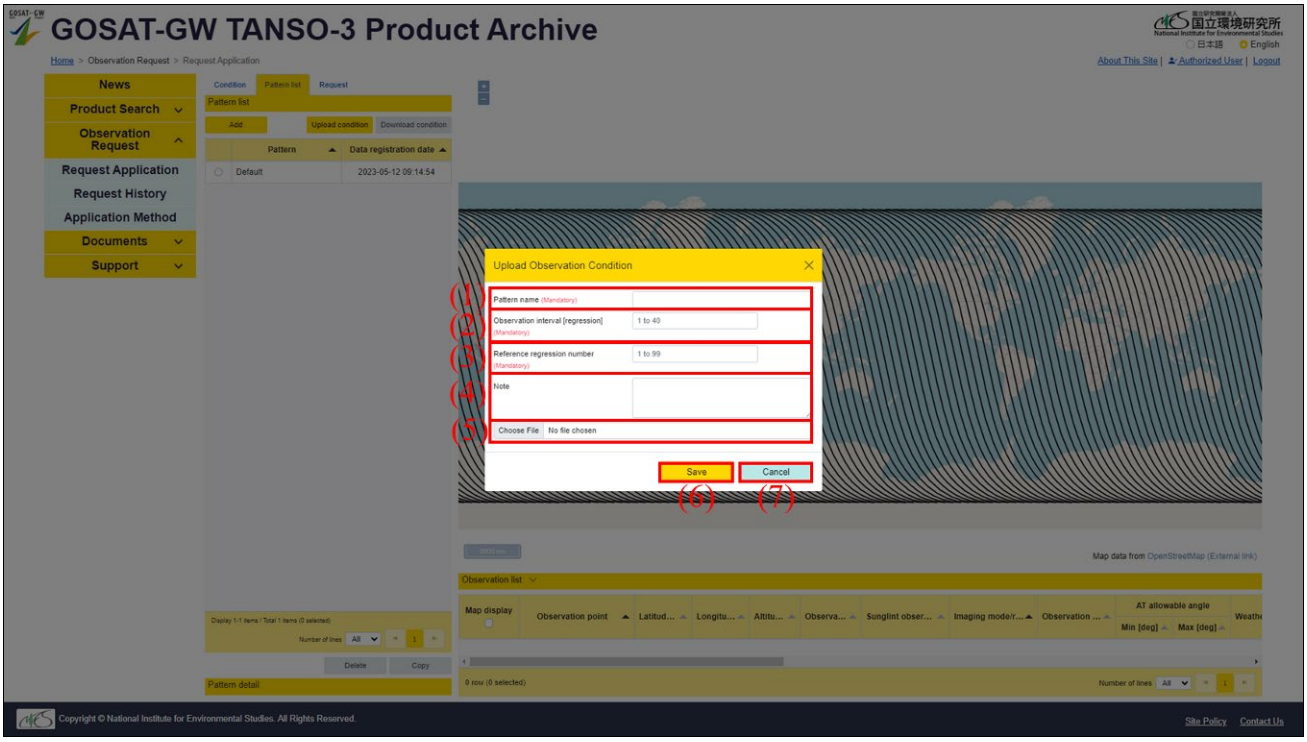


Figure 7-44 [Upload Observation Condition] Screen

Please refer to Section 7.1.7 for input items (1) to (4).

(5) [Choose File] Button

Select the observation condition file.

(6) [Save] Button

Upload the selected observation condition file for the input pattern.

(7) [Cancel] Button

Abort the observation condition upload and close the [Upload Observation Condition] screen.

Once the observation condition upload is complete, the [Information] dialog will appear. Click the [OK] button.

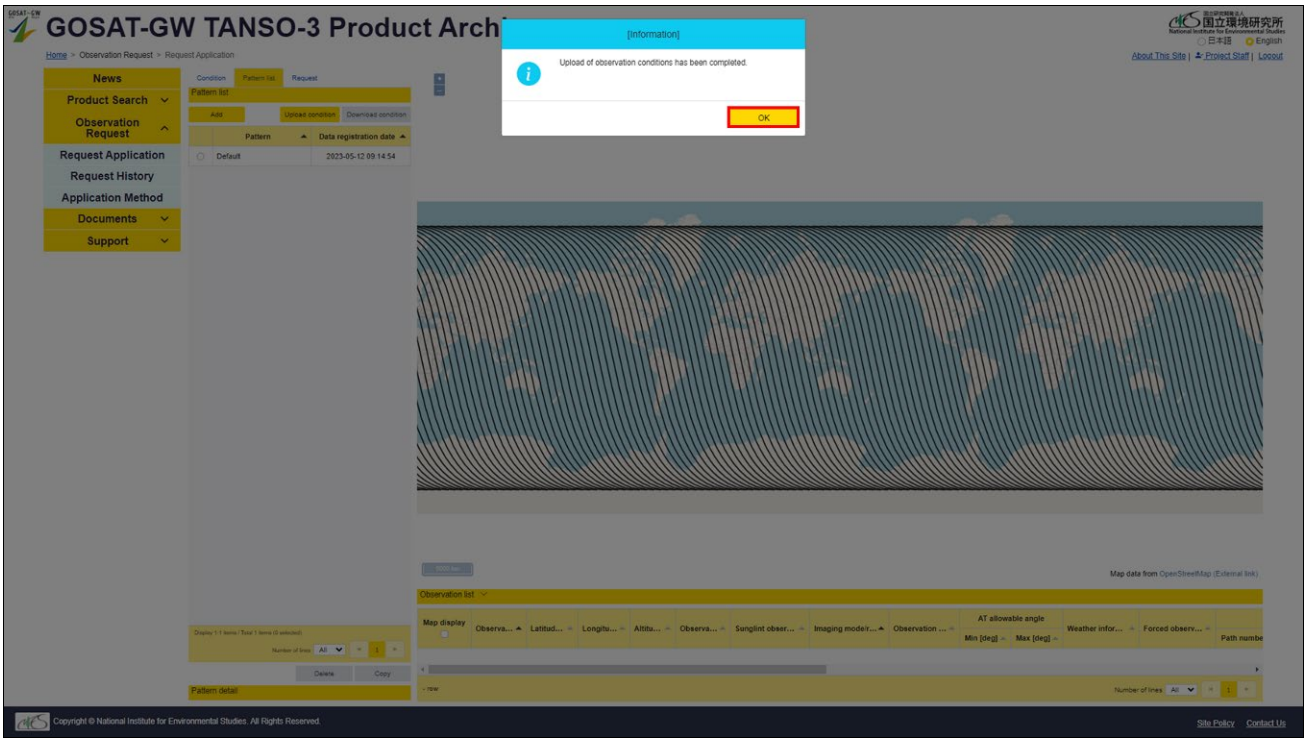


Figure 7-45 [Information] Dialog after uploading observation conditions.

After the observation condition is uploaded, the pattern will be added to the [Pattern list] tab, and the list of uploaded observation conditions will be displayed in the [Observation list] area.

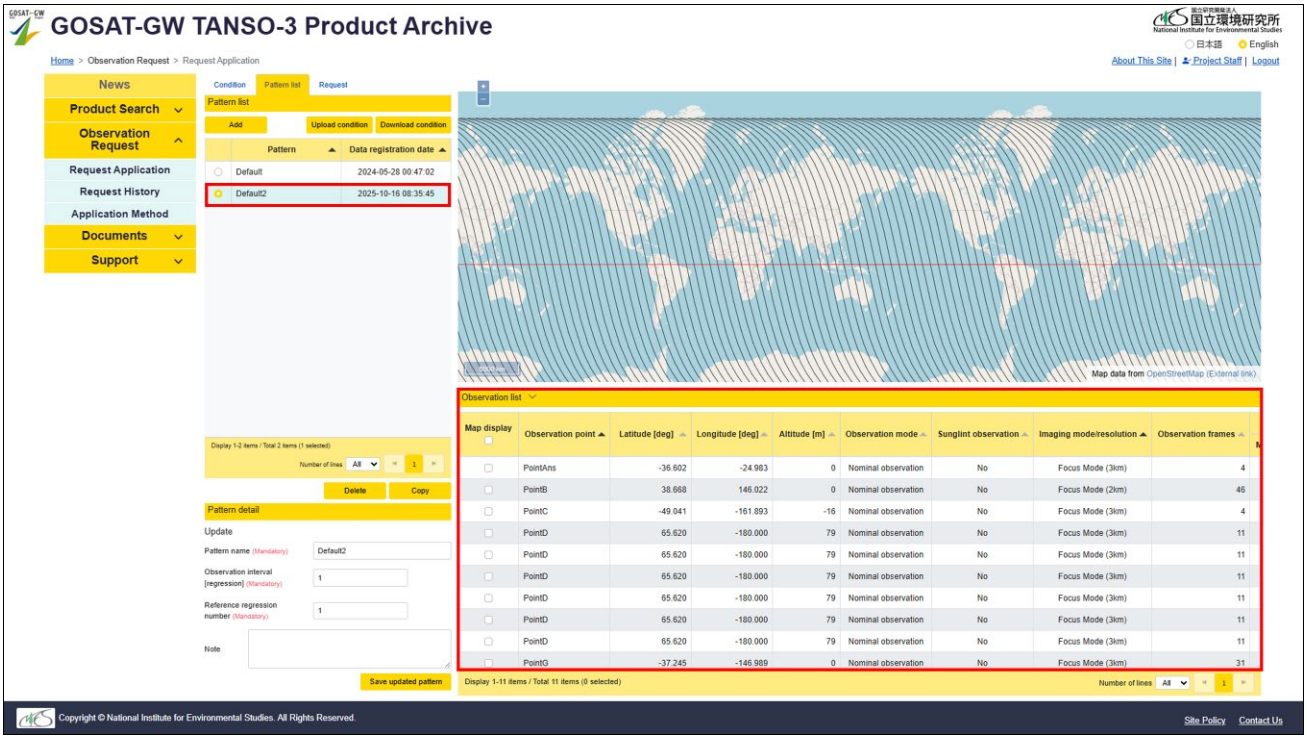


Figure 7-46 After uploading observation conditions

7.1.10. Duplicating Observation Patterns

Select the pattern name you want to duplicate in the [Pattern list] tab and click the [Copy] button.

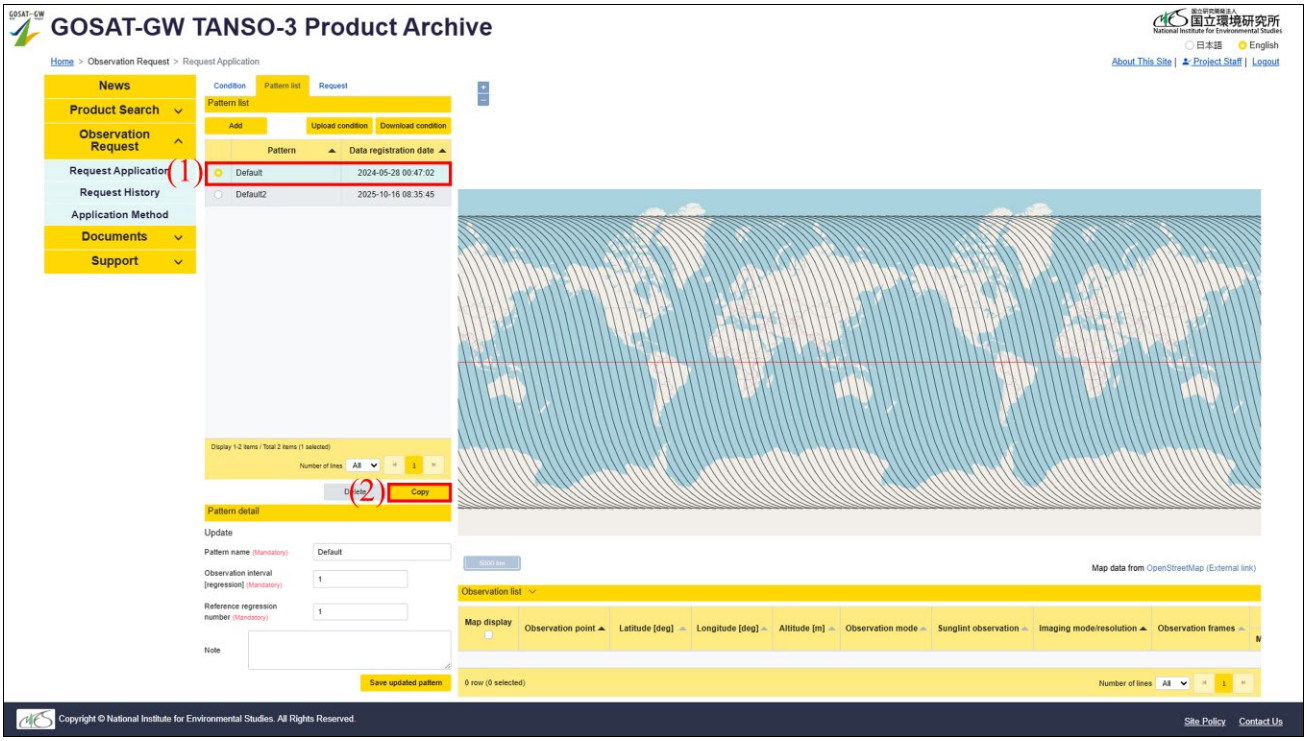


Figure 7-47 [Copy] button

(1) [Pattern]

Select the pattern name.

(2) [Copy] Button

Duplicate the selected pattern.

The duplicated pattern will be added to the [Pattern list] tab. The [Pattern], [Observation interval [regression]], [Reference regression number], and [Note] will be inherited from the original pattern.

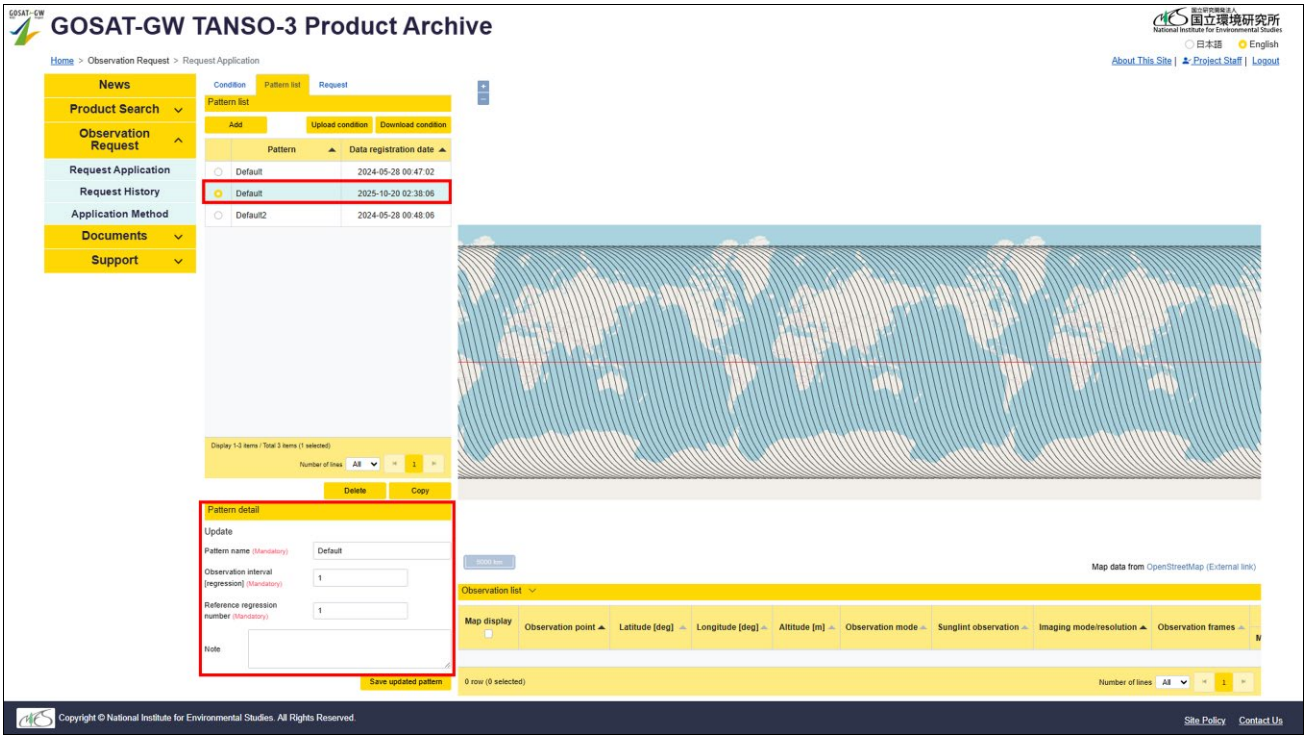


Figure 7-48 After duplicating the pattern

7.1.11. Deleting Observation Patterns

Select the pattern name you want to delete in the [Pattern list] tab and click the [Delete] button.

Notes:

The "Default" pattern (excluding duplicated "Default" patterns) cannot be deleted.

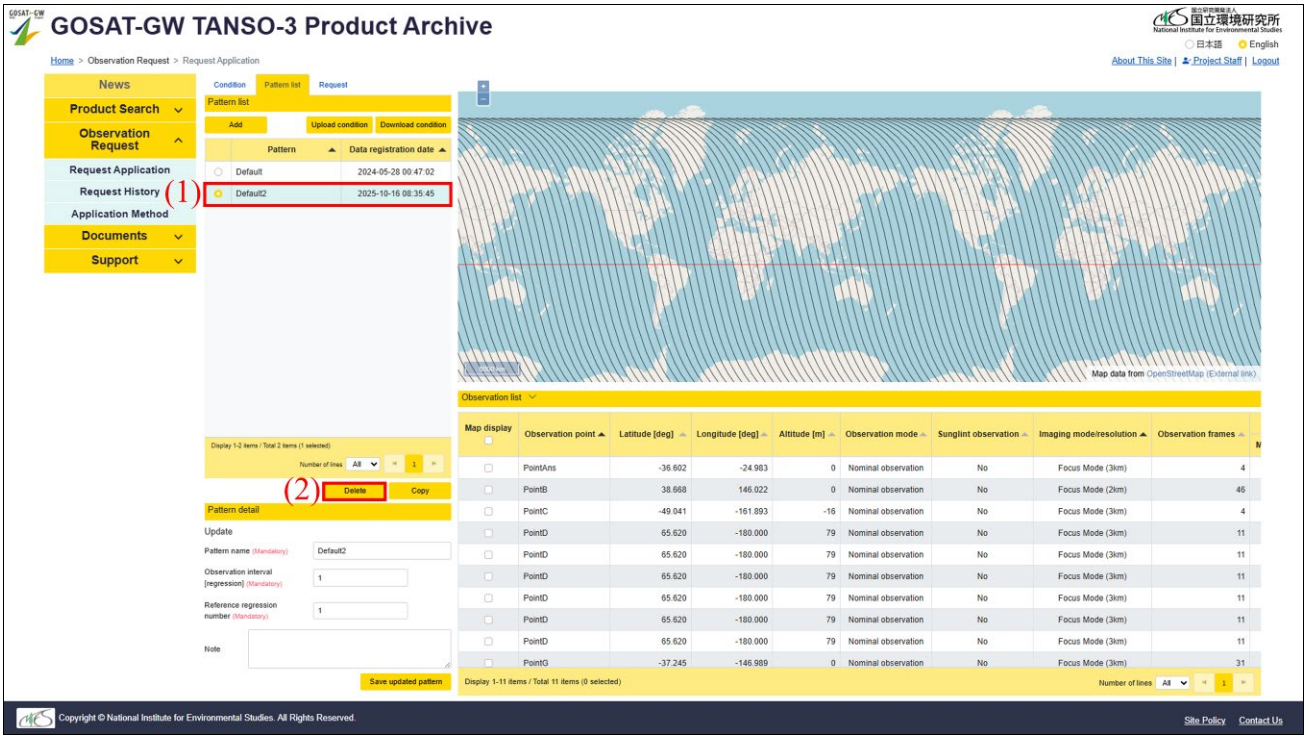


Figure 7-49 [Delete] button

(1) [Pattern]

Select the pattern name.

(2) [Delete] Button

Delete the selected pattern. A [Confirmation] dialog will appear.

Click the [Yes] button in the [Confirmation] dialog.

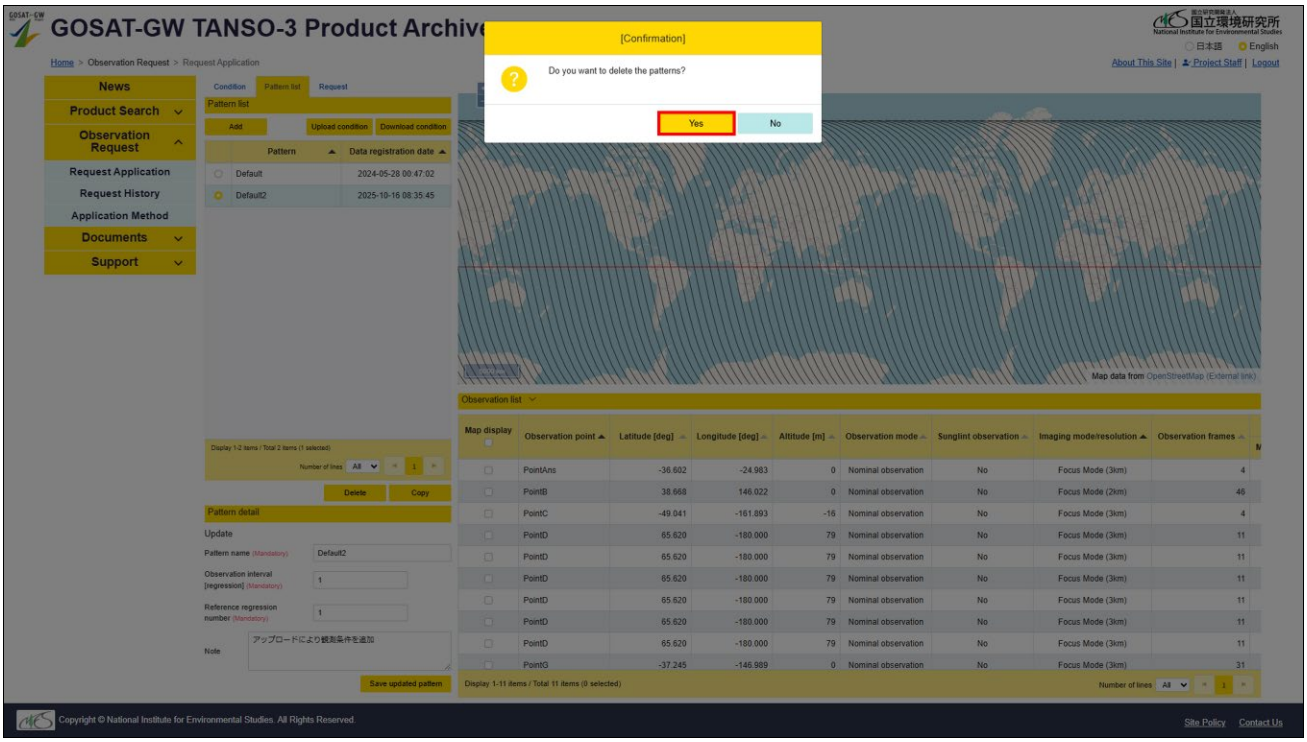


Figure 7-50 [Confirmation]dialog for pattern deletion

After the pattern is deleted, the [Information] dialog will appear. Click the [OK] button.

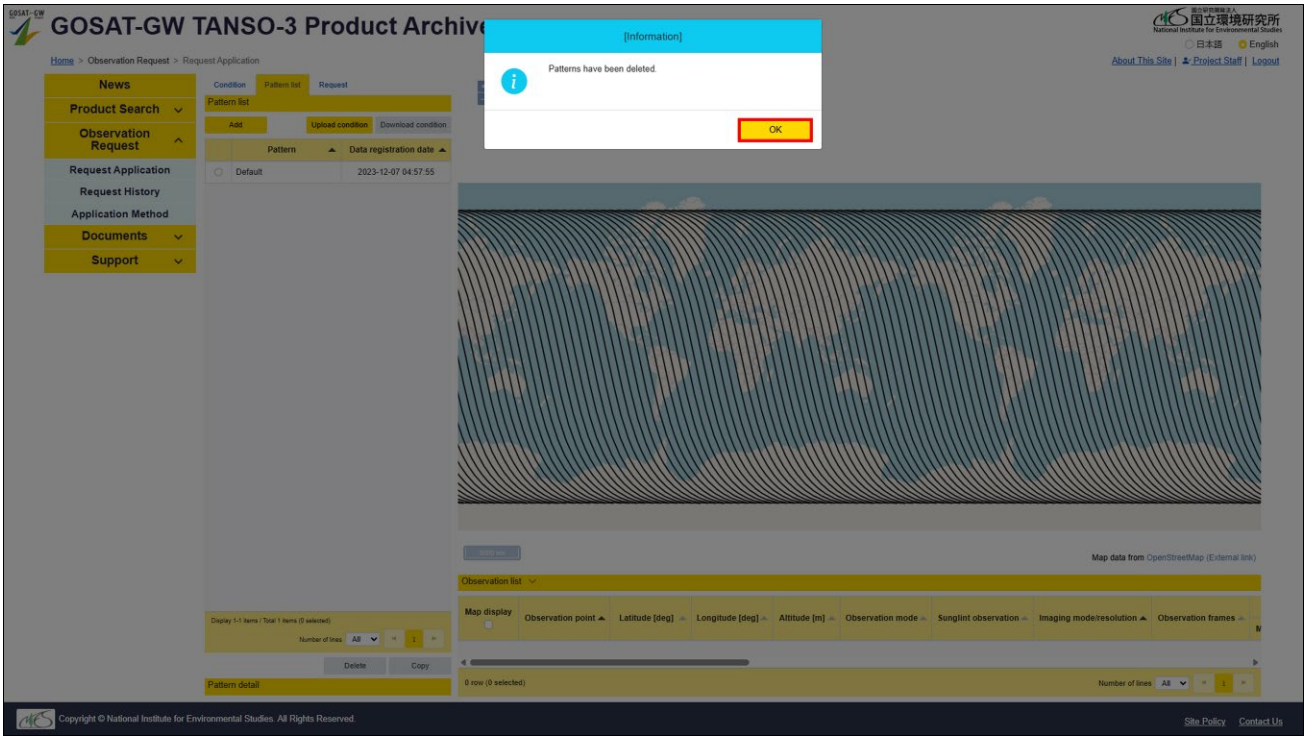


Figure 7-51 [Information]dialog after pattern deletion

The pattern is removed from the [Pattern list] tab.

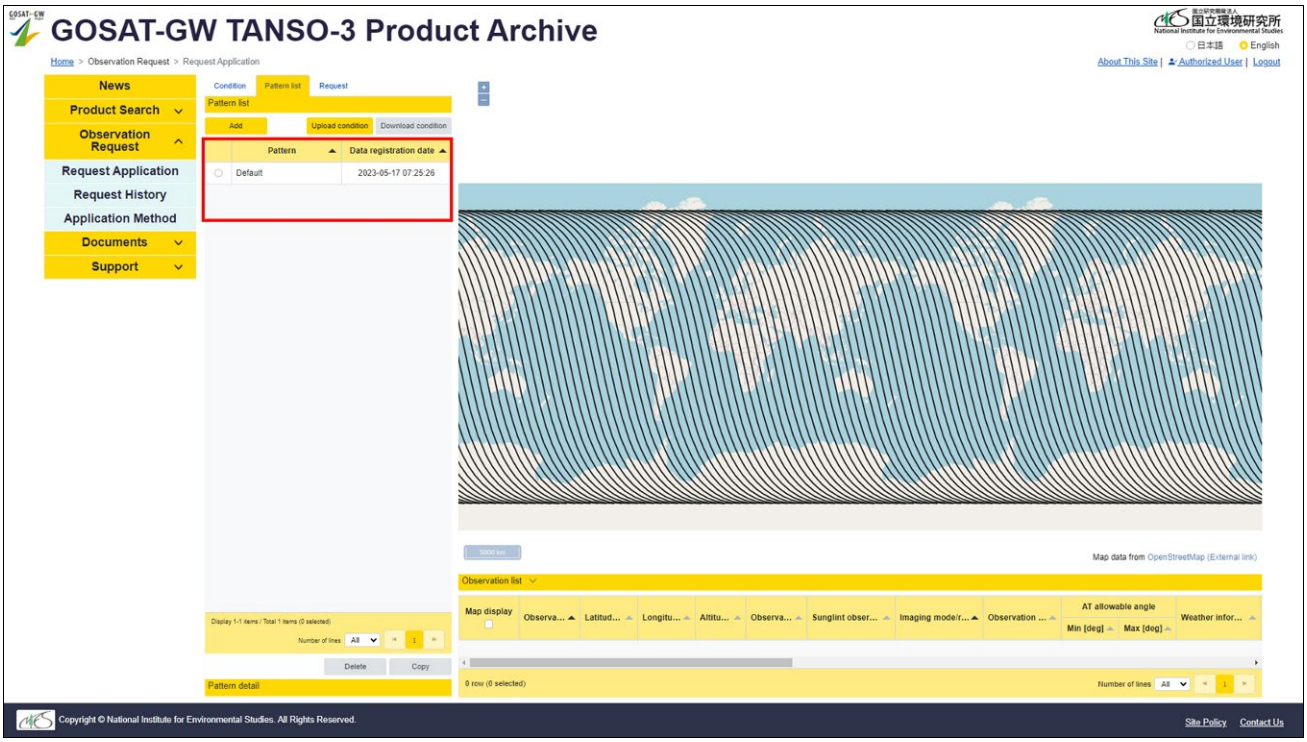


Figure 7-52 After Pattern Deletion

7.1.12. Updating Observation Patterns

Select the pattern name you want to update from the [Pattern list] tab. The [Pattern detail] area will open, where you can edit each item and click the [Save updated pattern] button.

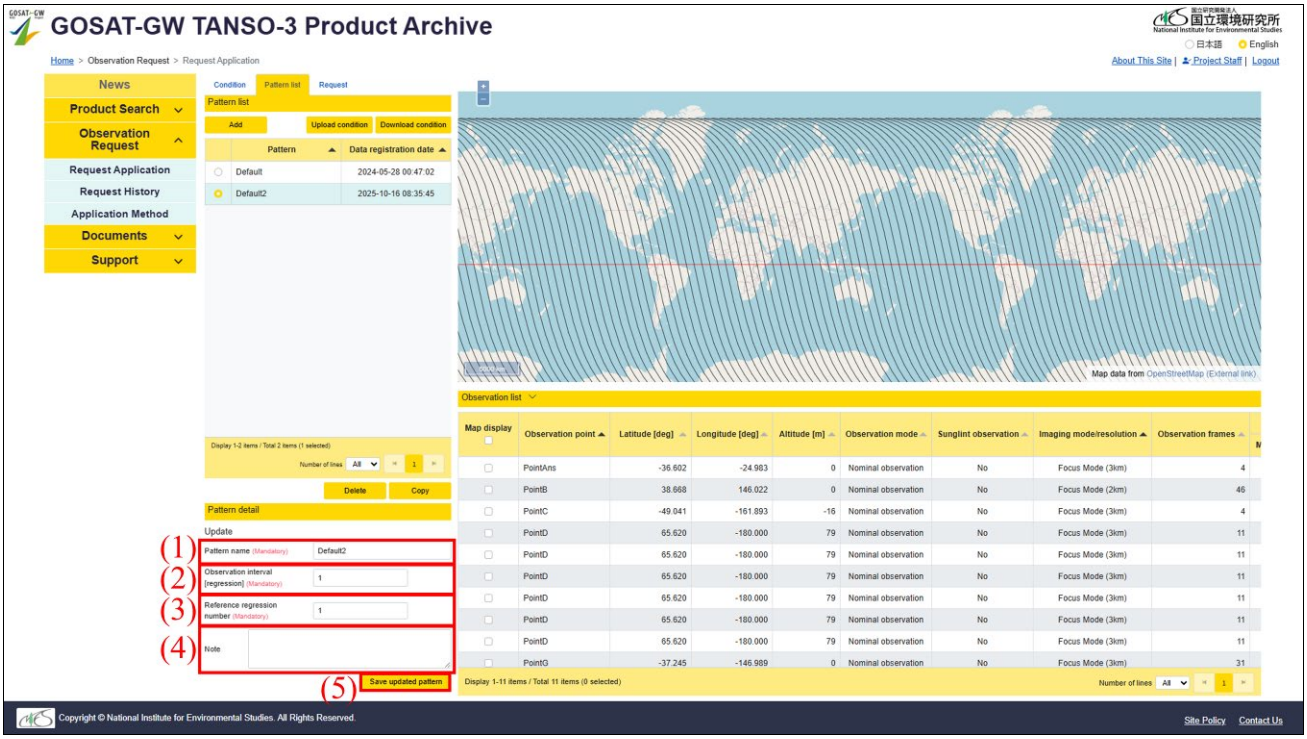


Figure 7-53 [Pattern detail] Area (During Update)

For input items (1) to (4), please refer to Section 7.1.7.

(5) [Save updated pattern] Button

Saves the edited observation pattern.

For the [Confirmation] dialog and [Information] dialog when saving the pattern, please refer to Section 7.1.7.

The pattern name in the [Pattern list] tab and each item in the [Pattern detail] area are updated.

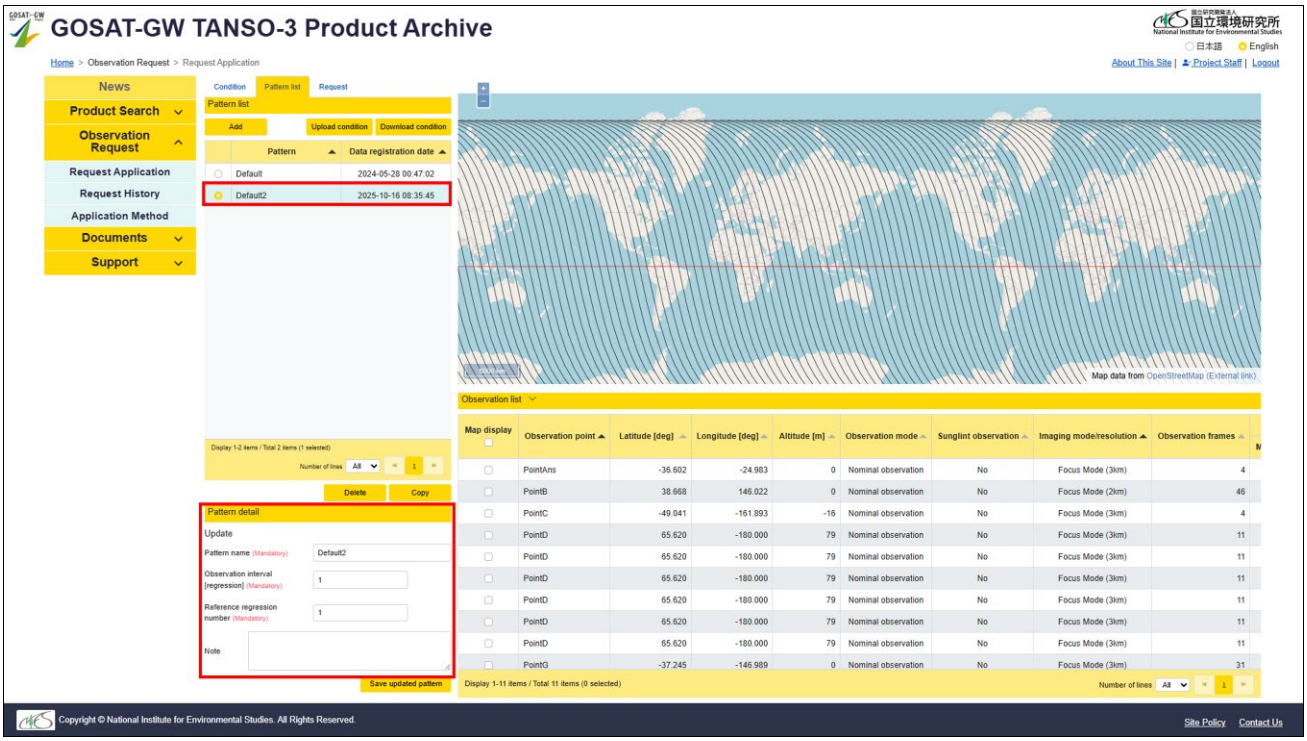


Figure 7-54 After Pattern Update

7.1.13. Observation Request Application

7.1.13.1. Calculation of Observation Request Candidates

In the calculation of observation request candidates, you can specify the desired observation period and conditions to check the candidates that meet these conditions. If the observation conditions for sunglint observation are specified, the central latitude, longitude, and altitude of the observation will be presented for the first time here. Note that the altitude is fixed at 0 [m].

In the [Request] tab, select the pattern name and observation site name, enter the desired observation period, and click the [Calculate observation date] button.

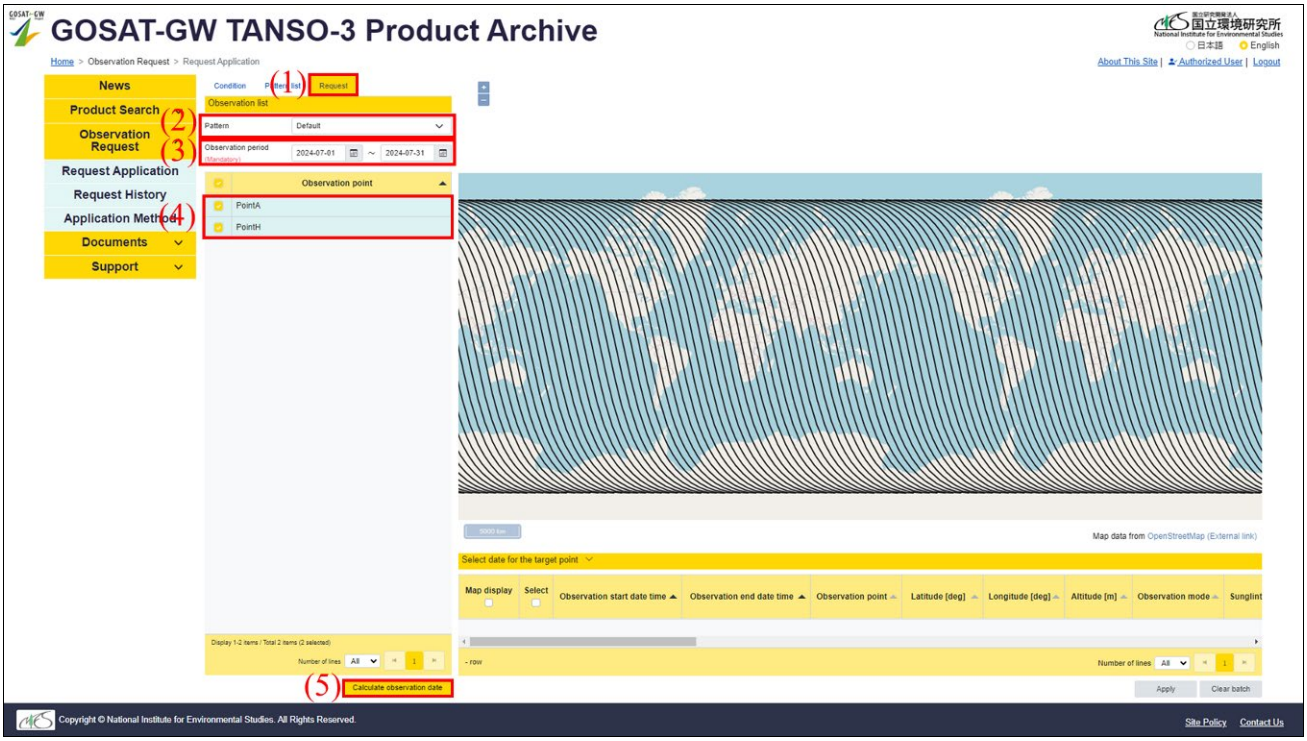


Figure 7-55 [Request] Tab

(1) [Request] Tab

Open the [Request] tab.

(2) [Pattern]

Select the observation pattern.

For the addition and editing procedures of observation patterns, please refer to Sections 7.1.7 to 7.1.12.

(3) [Observation period]

Enter the desired observation period. Candidates for observation requests that fall within the specified desired observation period will be presented in Section 7.1.13.2. The search range for observation request candidates is as follows:

Start: Time of the first descending node on the start date of the desired observation period

End: Time of the first descending node on the day after the end date of the desired observation period

(4) [Observation point]

The observation site names added in Sections 7.1.1 and 7.1.2 are displayed. Select the observation site name you wish to apply for.

(5) [Calculate observation date] Button

Calculate candidates based on the selected observation conditions.

7.1.13.2. Selection of Observation Request Candidates and Application

When the calculation of observation request candidates is executed, the candidates will be listed in the [Calculate observation date] area.

Select one or more candidates to apply for and click the [Apply] button.

Notes:

- Regarding the period for accepting observation requests

Please apply for observation requests about 7 weeks before the start date of the requested observation. Applications are accepted after this period, but please understand that it may not be possible to meet your request.

- Regarding non-adoption or rejection of observation requests
  - In case of conflicts between requested observations, you may be asked to adjust. In such cases, you will be contacted by e-mail.
  - Due to operational constraints, it may not be possible to carry out (adopt) the requested observation.
  - If it is predicted that the scheduled date and location of the observation will be highly covered by clouds, the adopted observation may not be conducted.
  - In case of urgent and important observation requests arising just before, the adopted observation requests may be rejected.

- Regarding the consistency of the observation request application

If the observation request to be applied for is close to an observation request that has already been applied for, it may be judged that there is a consistency problem, and the application cannot be submitted. In such cases, the relevant observation conditions must be changed. Refer to Section 7.1.3 for details.

Restrictions:

Applications for observation requests can be made from observations approximately one week after the application date (※).

The maximum period for accepting observation requests varies from 2 months to 8 months ahead, depending on the operational status of the system. If a period during which observation requests cannot be accepted is specified, an error dialog will be displayed, so please change the period and reapply.

(※) From Tuesday 06:00 (UTC) of the week prior to the week (Monday to Sunday) that includes the target observation request, it is not possible to accept applications for observation requests.

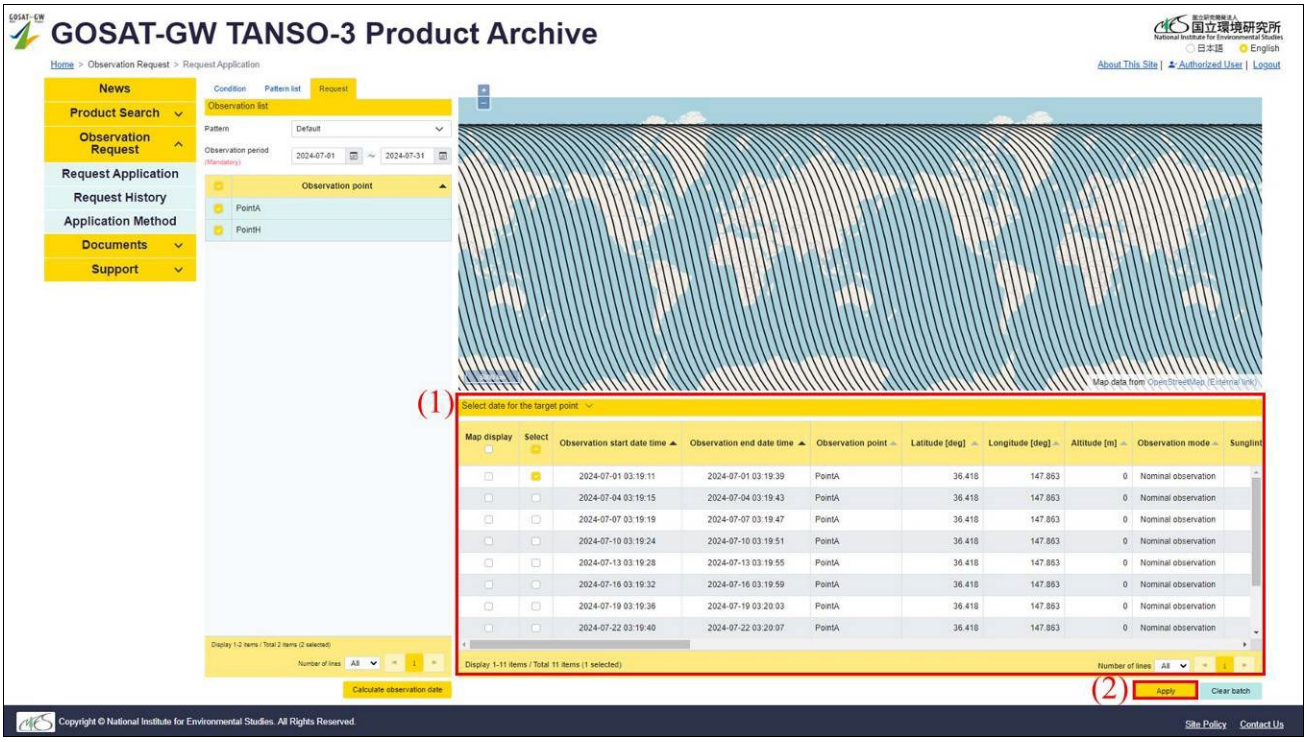


Figure 7-56 [Select date for the target point] Area

(1) [Select date for the target point] Area

This area displays a list of observation request candidates. Check the [Select] box for the observation request candidates you wish to apply for.

Table 7.1-4 List of Select date for the target point Items

Search Criteria		Description
Map display		Check to display the observation area on the map.
Select		Check to make it a candidate for observation request application.
Observation start date time		Displays the start date and time of the observation.
Observation end date time		Displays the end date and time of the observation.
Observation point		Displays the name of the observation site.
Latitude [deg]		Displays the latitude of the observation site.
Longitude [deg]		Displays the longitude of the observation site.
Altitude [m]		Displays the altitude of the observation site.
Observation mode		Displays the observation mode.
Sunglint Observation		Indicates whether it corresponds to sun glint observation.
Imaging mode/resolution		Displays the imaging mode and resolution.
Observation frames		Displays the number of observation frames.
AT allowable angle	Min [deg]	Displays the maximum allowable AT angle (off-nadir angle).
	Max [deg]	Displays whether weather information is reflected.
Weather information reflected		Displays whether weather information is reflected.
Forced observation conducted		Displays whether there is a mandatory observation flag.
Observation start	Total orbit no.	Displays the total orbit number at the start of the observation.
	Path number	Displays the path number at the start of the observation.
	Argument of latitude [deg]	Displays the latitude argument at the start of the observation.
	AT angle[deg]	Displays the AT angle (off-nadir angle) at the start of the observation.
	CT angle [deg]	Displays the CT angle (cross-track angle) at the start of the observation.

Table 7.1-4 List of Select date for the target point Items

Search Criteria		Description
Observation Center	Total orbit no.	Displays the total orbit number at the center of the observation.
	Path number	Displays the path number at the center of the observation.
	Argument of latitude[deg]	Displays the latitude argument at the center of the observation.
	AT angle [deg]	Displays the AT angle (off-nadir angle) at the center of the observation.
	CT angle [deg]	Displays the CT angle (cross-track angle) at the center of the observation.
Observation end	Total orbit no.	Displays the total orbit number at the end of the observation.
	Path number	Displays the path number at the end of the observation.
	Argument of latitude [deg]	Displays the latitude argument at the end of the observation.
	AT angle[deg]	Displays the AT angle (off-nadir angle) at the end of the observation.
	CT angle [deg]	Displays the CT angle (cross-track angle) at the end of the observation.

(2) [Apply] Button

Click to apply for the selected observation request. A [Confirmation] dialog will appear.

Click the [Yes] button in the [Confirmation] dialog.

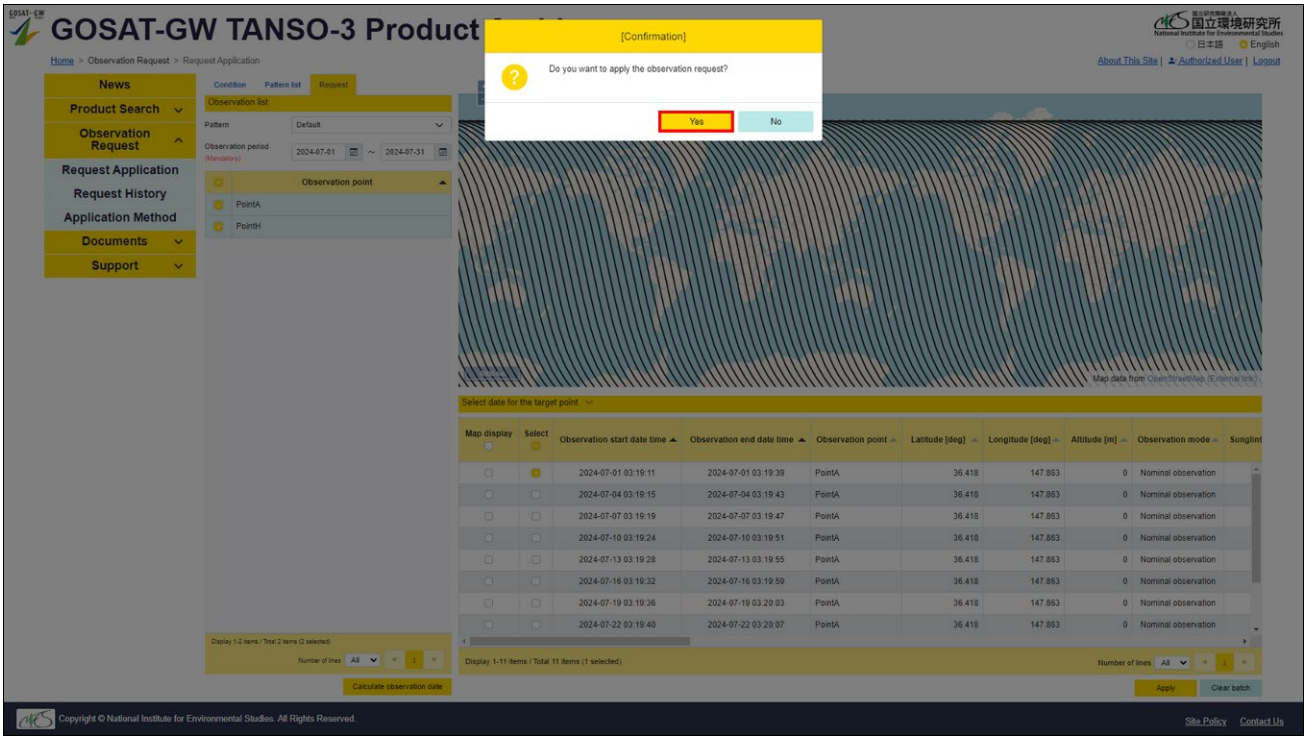


Figure 7-57 [Confirmation] Dialog for Observation Request Application

When the observation request is completed, the [Information] dialog will be displayed, so click the [OK] button.

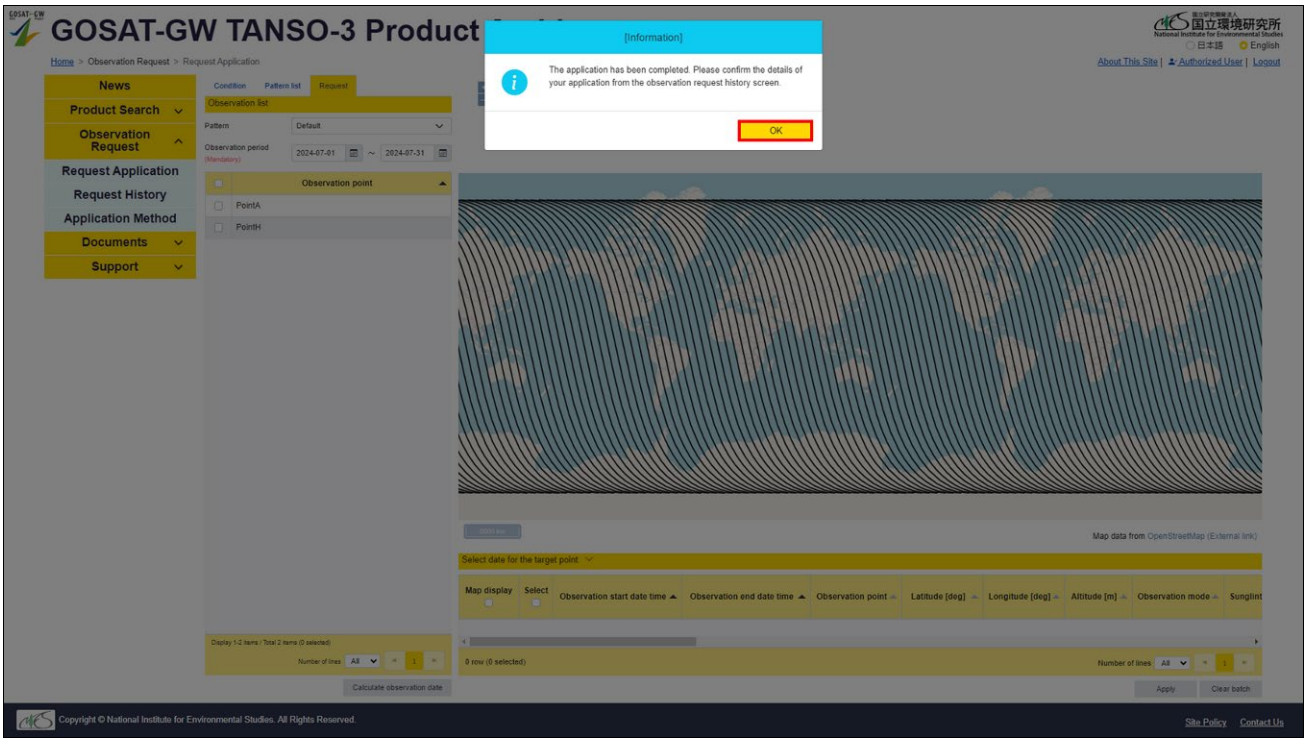


Figure 7-58 [Information] dialog at the time of observation request

When the observation request is completed, a notification e-mail for the observation request acceptance will be sent to the logged-in user.

Figure 7-59 Observation request acceptance notification e-mail

The details of the requested observation can be confirmed from the [Observation request history search] screen. Please refer to Section 7.2 for the operation of the [Observation request history search] screen.

7.2. Reference of observation request history

In this section, we will explain the procedure for referencing the history of observation requests.

Click on [Request History] from the [Observation Request] menu.

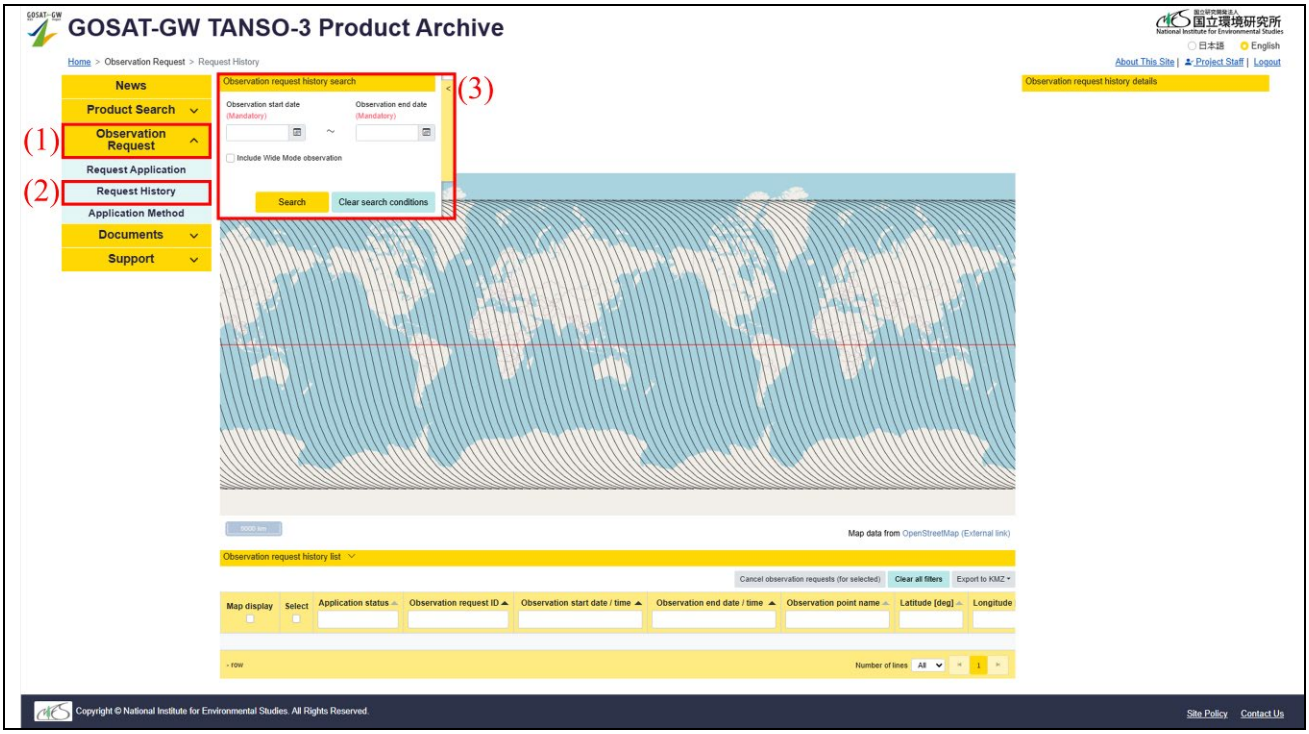


Figure 7-60 [Request History] screen

(1) [Observation Request] menu

Opens the observation request menu.

(2) [Request History]

Transitions to the [Request History] screen.

(3) [Observation request history search] panel

An area to input search conditions for observation requests. When the [Request History] screen is displayed, the [Observation request history search] panel is displayed in the open state.

7.2.1. Search for observation request history

When you specify search conditions in the [Observation request history search] panel and click the [Search] button, the search results for observation requests will be displayed in the [Observation request history list] area. By clicking a record or by checking [Selection] checkbox from the [Observation request history list] area, the details of the observation request, observation request answer, and observation plan will be displayed in the [Observation request history details] area.

In the [Request History] screen, you can also search for the history of Wide Mode observation requests that have been observed or are scheduled to be observed by GOSAT-GW TANSO-3, in addition to the history of observation requests you have applied for. A Wide Mode observation request refers to a request for Wide Mode observation that is mechanically assigned to areas without observation requests. Note that users cannot request Wide Mode observation requests themselves.

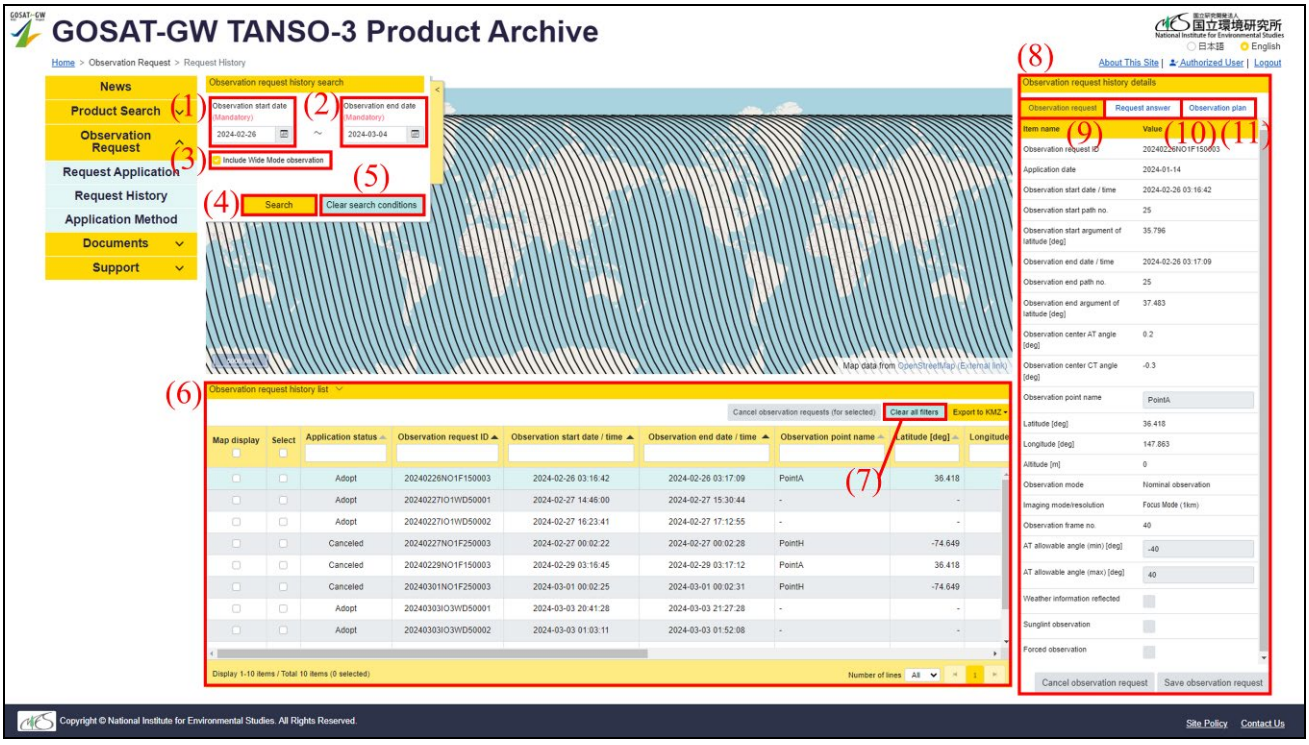


Figure 7-61 [Request History] screen when selecting an observation request

(1) [Observation start date]

Specifies the start date of the observation request to be searched. It is set as the start date from 00:00:00.

(2) [Observation end date]

Specifies the end date of the observation request to be searched. It is set as the end date until 23:59:59.

(3) [Include Wide Mode observation]

In the [Request History] screen, it is possible to include Wide Mode observation requests observed or scheduled to be observed by GOSAT-GW TANSO-3 in the search target. If you want to include Wide Mode observation requests in the search target observation requests, check the box.

(4) [Search] Button

Performs a search for observation requests based on the specified conditions.

Notes:

If the search results exceed the maximum number set in the system, only a part of the search results will be displayed in the [Observation request history list] area, and a warning dialog will be displayed. Please change the search conditions and search again.

(5) [Clear search conditions] Button

Clears the search conditions for observation requests.

(6) [Observation request history list] Area

Displays the search results of observation requests. It shows the items listed in Table 7.2-1. When an observation request is clicked record, the details of the observation request are displayed in the [Observation request history details] area under the [Observation request] tab.

Table 7.2-1 Observation request history list Item List

Item Name	Description
Map display	Checking this option displays the observation area on the map.
Selection	Checking this option makes the following operations available: - When the [Cancel observation requests (for selected)] button is clicked, it cancels the observation request. - When the [Export to KMZ] button is clicked, it downloads the geographic spatial information of the observation area.
Application Status	Displays the application status of the observation request with the following statuses: - Received: Indicates that the observation request has been accepted. - Planning: Indicates that the observation plan is being developed. - Canceled: Indicates that the observation request has been canceled. - Adopt: Indicates that the observation request has been adopted. -Reject: Indicates that the observation request has not been adopted.
Observation request ID	Displays the observation request ID.
Observation start date/time	Displays the observation start date and time.
Observation end date/time	Displays the observation end date and time.
Observation point name	Displays the observation point name.
Latitude [deg]	Displays the latitude of the observation point.
Longitude [deg]	Displays the longitude of the observation point.
Observation mode	Displays the observation mode as follows: - Nominal Observation
Imaging mode/resolution	Displays the imaging mode and resolution as follows: - Wide Mode - Focus Mode(1km)

Table 7.2-1 Observation request history list Item List

Item Name	Description
	- Focus Mode(2km) - Focus Mode(3km)
Sunglint Observation	Indicates whether it is a sun glint observation.
Application Date	Displays the application date of the observation request.
Proxy Modification	Indicates whether there is a modification to the observation request by a user other than the applicant (NIES staff).
L1 Processing Status	Displays the processing status of the L1 product with the following statuses: - Production OK: Indicates that the production of the L1 product was successful. - Production NG: Indicates that the production of the L1 product failed. - "-": Indicates that the production of the L1 product is pending.

(7) [Clear all filters] Button

Resets the sorting, filtering, page navigation, and display count of the [Observation request history list] area to the initial state.

(8) [Observation request history details] Area

This is the area that displays the details of the observation request, observation request response, and observation plan. Displays the details of the selected record in the [Observation request history list] Area. To enter the record selection state by clicking anywhere in the record or by checking the "Select" checkbox.

(9) [Observation request] Tab

Displays the details of the observation request. It shows the items listed in Table 7.2-2.

Table 7.2-2 Observation Request Item List

Item Name	Description
Observation request ID	Displays the observation request ID.
Application date	Displays the application date of the observation request.
Observation start date/Time	Displays the observation start date and time.
Observation start path no.	Displays the path number at the start of the observation.
Observation start argument of latitude [deg]	Displays the latitude argument at the start of the observation.
Observation end date/time	Displays the observation end date and time.
Observation end path no.	Displays the path number at the end of the observation.
Observation end argument of latitude [deg]	Displays the latitude argument at the end of the observation.
Observation center AT angle [deg]	Displays the AT angle (off-nadir angle) at the center of the observation.
Observation center CT angle [deg]	Displays the CT angle (off-nadir angle) at the center of the observation.
Observation point name	Displays the observation point name.
Latitude [deg]	Displays the latitude of the observation point.
Longitude [deg]	Displays the longitude of the observation point.
Altitude [m]	Displays the altitude of the observation point.
Observation mode	Displays the observation mode.
Imaging mode/resolution	Displays the imaging mode and resolution.
Observation frame no.	Displays the number of observation frames.
AT allowable angle (Min) [deg]	Displays the minimum allowable AT angle (off-nadir angle).
AT allowable angle (Max) [deg]	Displays the maximum allowable AT angle (off-nadir angle).
Weather information reflection	Displays the reflection of weather information based on the presence or absence of a checkmark: - Checkmark: Reflects weather information. - No checkmark: Does not reflect weather information.

Table 7.2-2 Observation Request Item List

Item Name	Description
Sunglint observation	Indicates whether it is a sun glint observation based on the presence or absence of a checkmark: - Checkmark: Sunglint observation - No checkmark: Nominal observation
Forced observation	Indicates the presence or absence of a checkmark for forced observation: - Checkmark: Conducts observation even if sun glint occurs. - No checkmark: Does not conduct observation if sun glint occurs.

(10) [Request answer] Tab

After receiving the response to the observation request, the details of the observation plan response are displayed. The following items are shown:

Table 7.2-3 Request answer Item List

Item Name	Description
Adoption status	Displays the acceptance result of the observation request.
Sensor start date / time	Displays the start time of sensor operation.
Sensor start total orbit no.	Displays the total orbit number at the start of sensor operation.
Sensor start path no.	Displays the path number at the start of sensor operation.
Sensor start argument of latitude [deg]	Displays the latitude argument at the start of sensor operation.
Sensor end date / time	Displays the end time of sensor operation.
Sensor end total orbit no.	Displays the total orbit number at the end of sensor operation.
Sensor end path no.	Displays the path number at the end of sensor operation.
Sensor end argument of latitude [deg]	Displays the latitude argument at the end of sensor operation.
Image center point(latitude) [deg]	Displays the latitude of the imaging center point.
Image center point(longitude) [deg]	Displays the longitude of the imaging center point.
Image center point(altitude) [m]	Displays the altitude of the imaging center point.
Sunglint occurrence results	Displays the occurrence of sun glint.
Reason for rejection	Displays the reason if the observation request was not accepted.
Product quality warning	Displays warning information if there is an impact on product quality.

(11) [Observation plan] Tab

After receiving the observation plan, the details of the observation plan are displayed. The display items are the same as in Table 7.2-3.

7.2.2. Downloading Geospatial Information of Observation Area

Follow the procedure in Section 7.2.1 to search for observation request history. From the [Observation request history list] area of the [Request History] screen, click on [expect to KMZ], select the number of geospatial information of the observation area to download.

Notes:

In the following cases, the geospatial information of the observation area will not be output to a KMZ file. Observation request IDs that could not be output will be displayed in a warning dialog:

- If the observation request was made immediately before.

  Geospatial information of the observation area can be output from six weeks prior to the week (Monday to Sunday) that includes the observation request. However, it may not be possible to output during the planning of the observation. If the geospatial information of the observation area cannot be output to a KMZ file, please try downloading again on another day.
- If the application status of the observation request is "Canceled".

  If the application status of the selected observation request is "Cancelled," the geospatial information of that observation area will not be output to a KMZ file.

If no geospatial information of the observation area can be output to a KMZ file, an empty KMZ file will be downloaded.

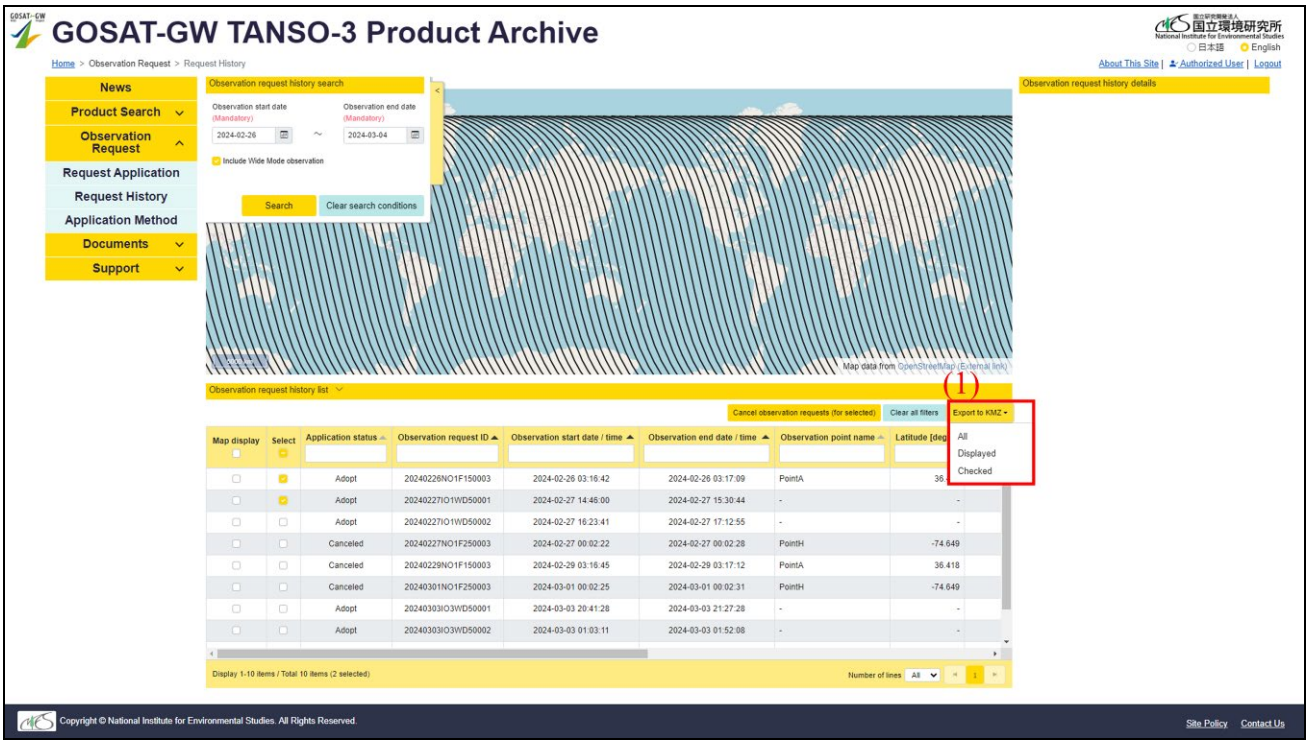


Figure 7-62 [Export to KMZ] Click on the [Request History] Screen

(1) [Export to KMZ]

Clicking this will display the following buttons. Clicking a button will download a KMZ file containing the geographic spatial information of the observation area.

- [All] Button

  Downloads the geographic spatial information of the observation requests searched.

- [Displayed] Button

  Downloads only the geographic spatial information of the observation request histories displayed in the [Observation request history list] area. If the page spans multiple pages, only the information displayed on the current page will be downloaded.

- [Checked] Button

  Downloads only the geographic spatial information of the observation request histories that are checked in the [Select] column of the [Observation request history list] area. If no items are checked in the [Select] column, the button will be disabled.

7.3. Partial Modification of Observation Requests

There are three cases where an observation request can be modified:

- By the user
- By a NIES representative on behalf of the user
- Due to conflict resolution

7.3.1. By the User

Follow the procedure in Section 7.2.1 to search the observation request history. From the [Observation request history details] area of the [Request History] screen, select the [Observation request] tab, make changes to the observation request, and then click the [Save observation request] button.

Restrictions:

Changes to observation requests cannot be accepted after 06:00 UTC on the Tuesday of the week prior to the week (Monday to Sunday) that includes the observation request.

Changes to the observation point after submitting an observation request are not allowed. If you wish to change the observation point, cancel the observation request following the procedure in Section 7.4.1, and then reapply for an observation request following the procedure in Section 7.1.

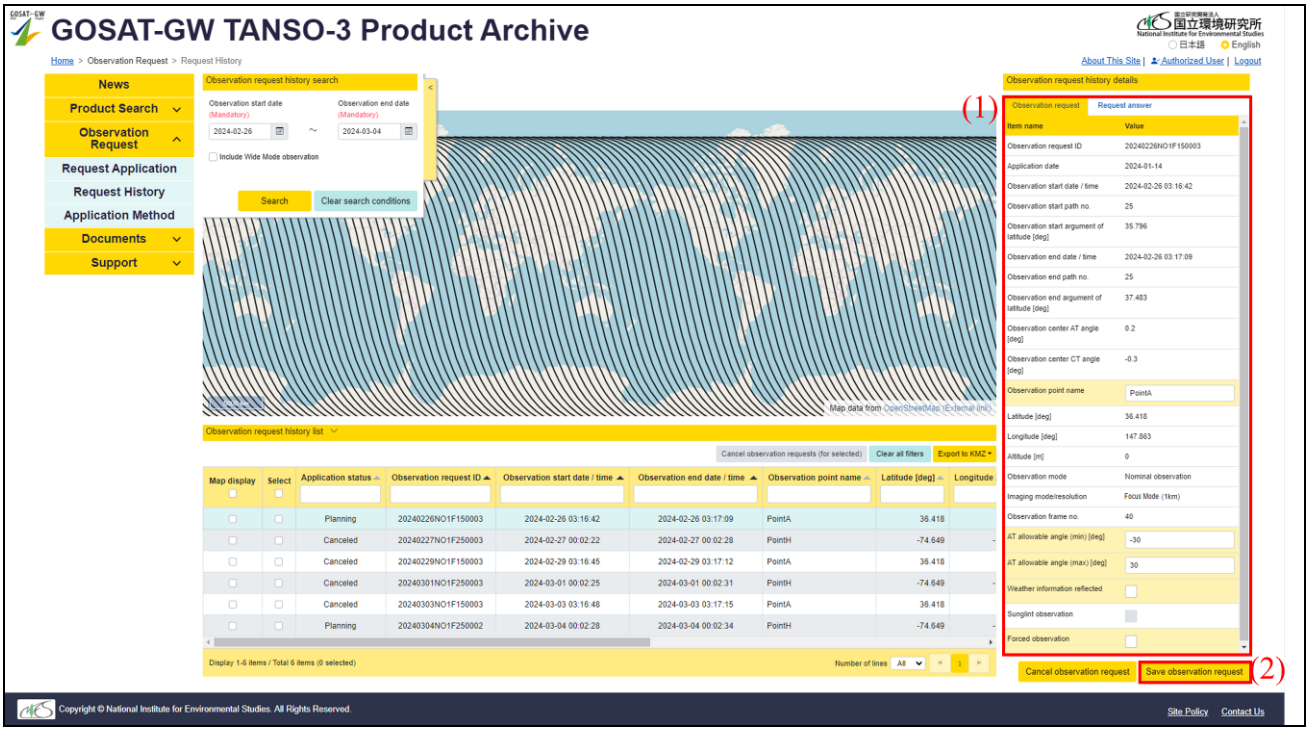


Figure 7-63 Observation Request Change on the [Request History] Screen

(1) [Observation request] Tab

Modify the following items:

- Observation point name
- AT allowable angle (Min) [deg]
- AT allowable angle (Max) [deg]
- Weather information reflected
- Forced observation

(2) [Save observation request] Button

Saves the changes made to the observation request. A [Confirmation] dialog appears.

This button becomes active when changes are made in the [Observation request] tab.

Click the [Yes] button in the [Confirmation] dialog.

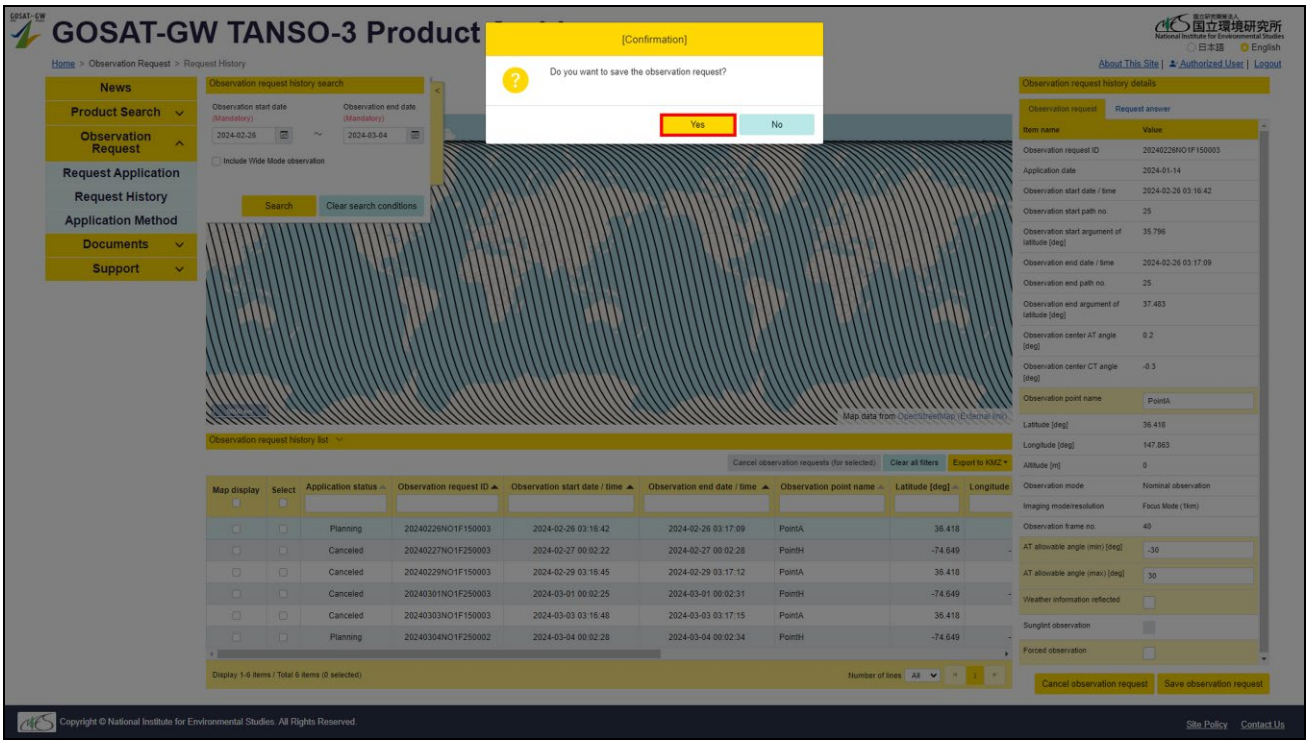


Figure 7-64 [Save observation request] button Click on the [Confirmation] Dialog

Once the changes to the observation request are completed, an [Information] dialog appears, click the [OK] button.

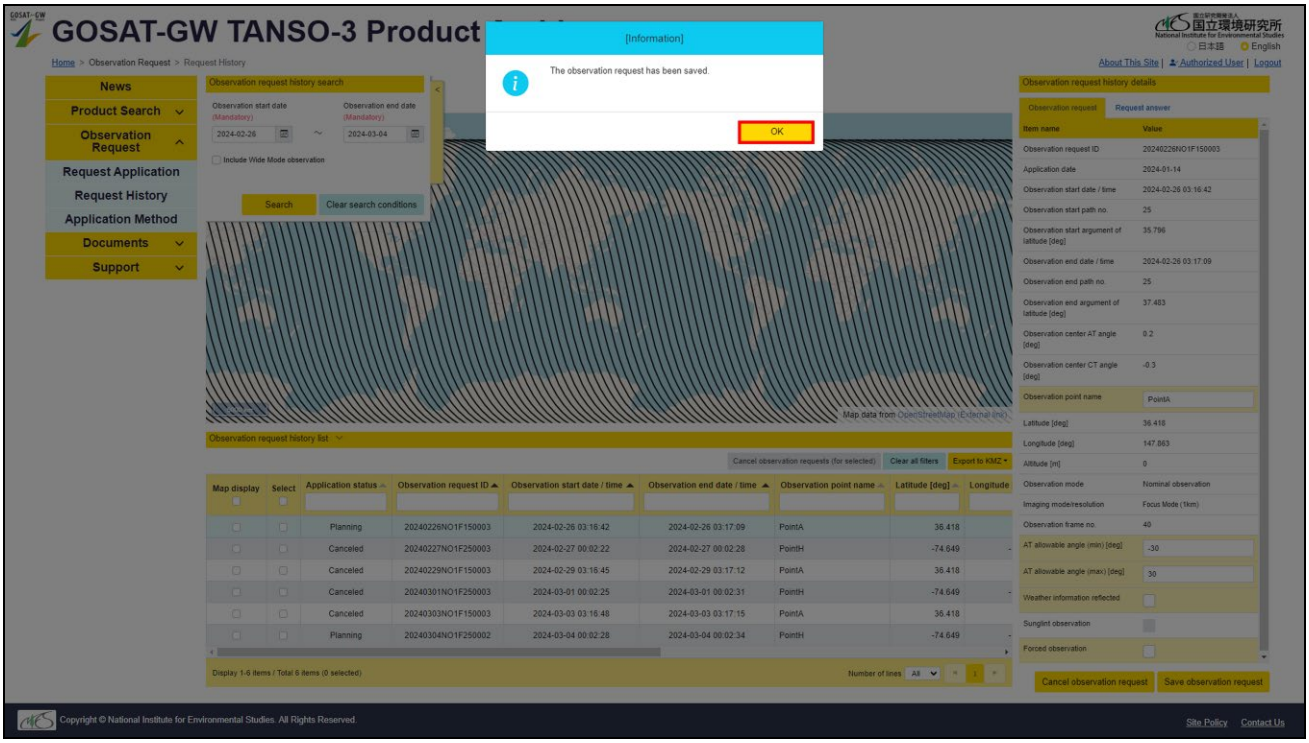


Figure 7-65 Observation Request Save [Information] Dialog

A notification e-mail regarding the acceptance of the observation request change of Figure 7-66 will be sent to the registered e-mail address.

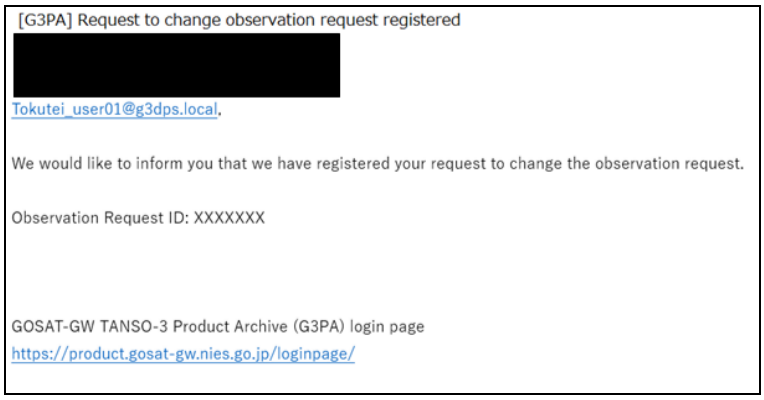


Figure 7-66 Observation Request Change Request Acceptance Notification E-mail

7.3.2. When changed by NIES personnel on behalf of the user

The e-mail address registered will receive the observation request change request acceptance notification e-mail shown in Figure 7-66. Follow the procedure in Section 7.2.1 to search for the observation request and confirm the observation request from the [Observation request history list] area or the [Observation request history details] area on the [Request History] screen.

7.3.3. When changed due to competition adjustment

The e-mail address registered will receive the observation request change notification e-mail shown in Figure 7-67. Follow the procedure in Section 7.2.1 to search for the observation request and confirm the observation request from the [Observation request history list] area or the [Observation request history details] area on the [Request History] screen.

[G3PA] Observation requests changed or cancelled

[redacted]

Tokutei_user01@g3dps.local,

We would like to inform you that the observation requests have been changed or cancelled.

Observation Request ID: XXXXXXX

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 7-67 Observation Request Change Notification E-mail

7.4. Canceling Observation Requests

There are three cases for canceling observation requests:

- When the user cancels
- When NIES staff cancel on behalf of the user at the user's request
- Cancelled due to conflict adjustment

7.4.1. When the user cancels

There are methods to cancel observation requests individually and in multiple. In either case, first follow the procedure in Section 7.2.1 to search for the observation request.

Restrictions:

After 06:00 on the Tuesday of the previous week of the week (Monday to Sunday) containing the observation request to be canceled, the cancellation of the observation request will not be accepted.

Notes:

When canceling multiple observation requests, even if there are observation requests that cannot be canceled due to restrictions, the cancellation will be carried out for the observation requests that can be canceled.

- To cancel observation requests individually

  Select the [Observation request] tab from the [Observation request history details] area on the [Request History] screen and click the [Cancel observation request] button.

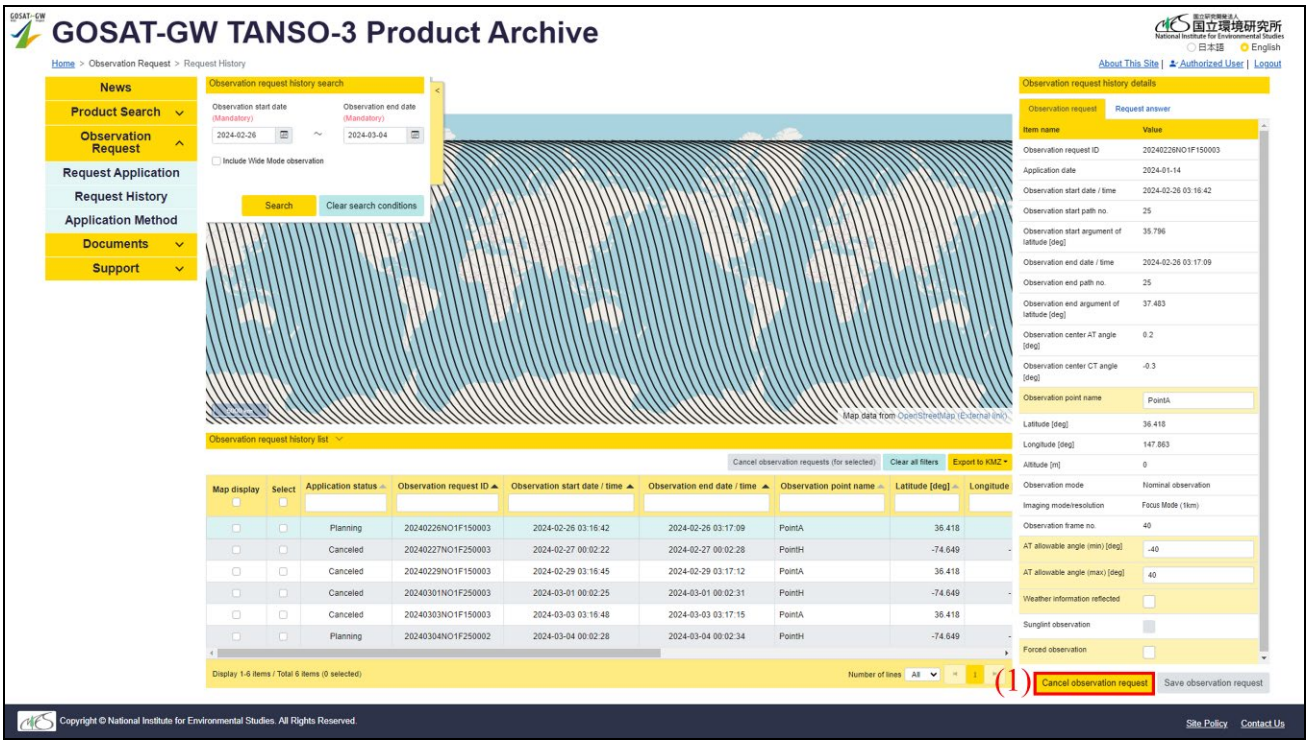


Figure 7-68 [Observation request history details] area when a row is selected

(1) [Cancel observation request] Button

Cancels the observation request. A [Confirmation] dialog will be displayed.

Click the [Yes] button in the [Confirmation] dialog.

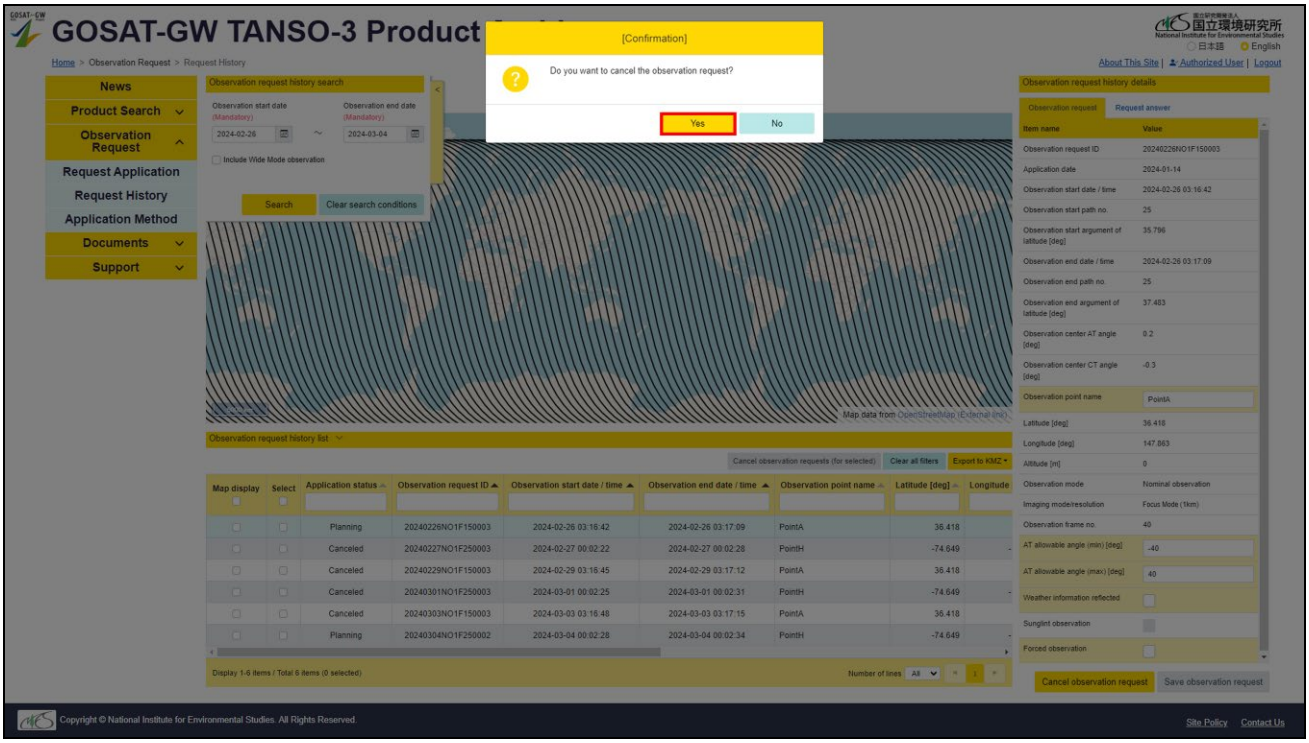


Figure 7-69 [Confirmation] dialog when the [Cancel observation request] button is clicked

When the cancellation of the observation request is completed, an [Information] dialog will be displayed. Click the [OK] button.

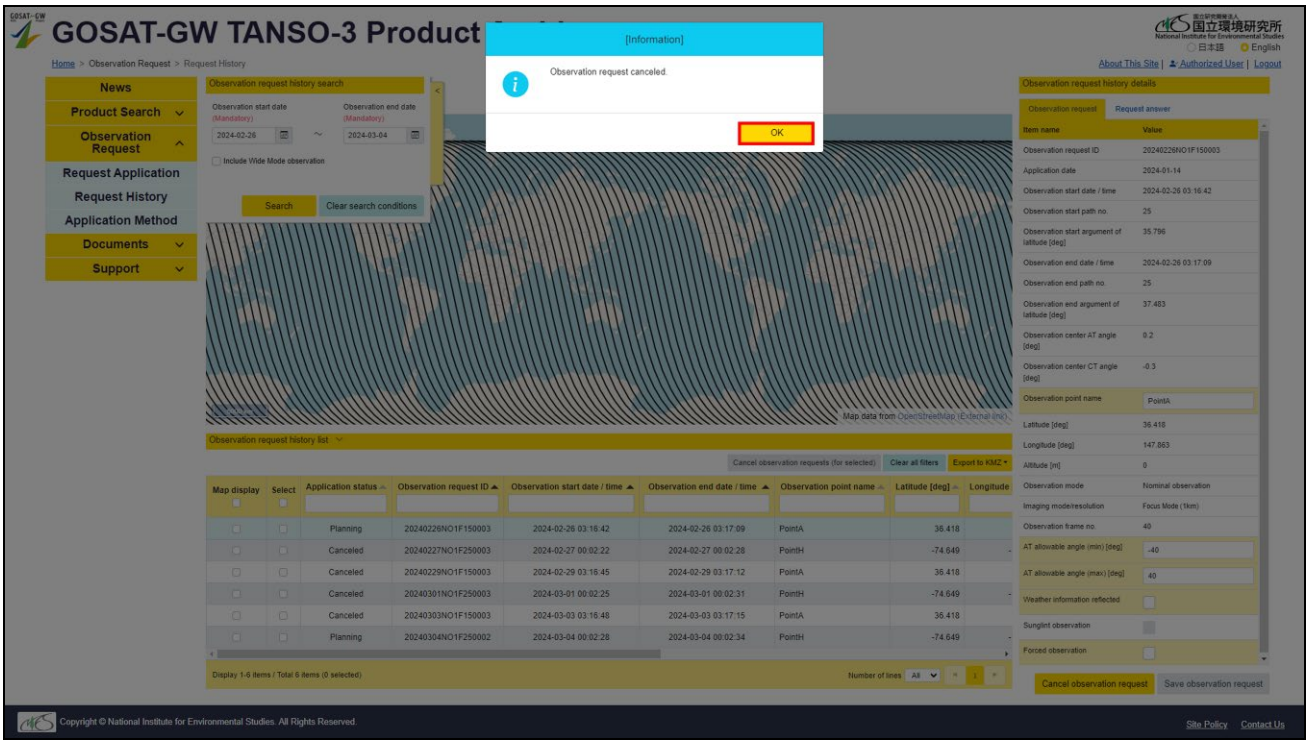
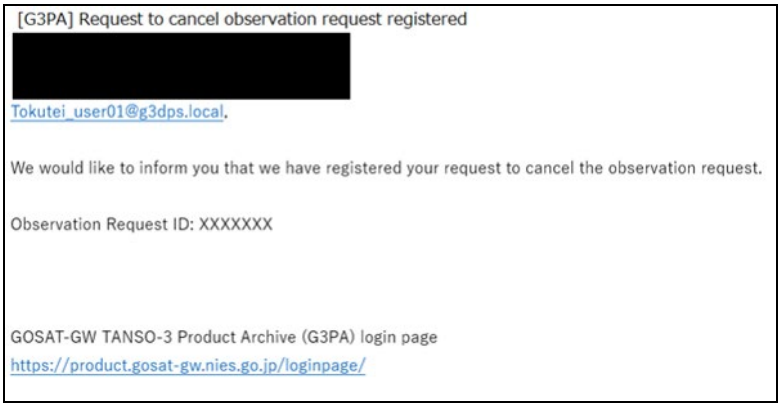


Figure 7-70 [Information] dialog when canceling the observation request

An observation request cancellation acceptance notification e-mail will be sent to the registered e-mail address.


[G3PA] Request to cancel observation request registered

[redacted]

Tokutei_user01@g3dps.local.

We would like to inform you that we have registered your request to cancel the observation request.

Observation Request ID: XXXXXXX

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 7-71 Observation Request Cancellation Acceptance Notification E-mail when canceling observation requests individually

- To cancel multiple observation requests:

  In the [Request History] screen, go to the [Observation request history list] area, check the [Select] box for the observation requests you wish to cancel, and click the [Cancel observation requests (for selected)] button.

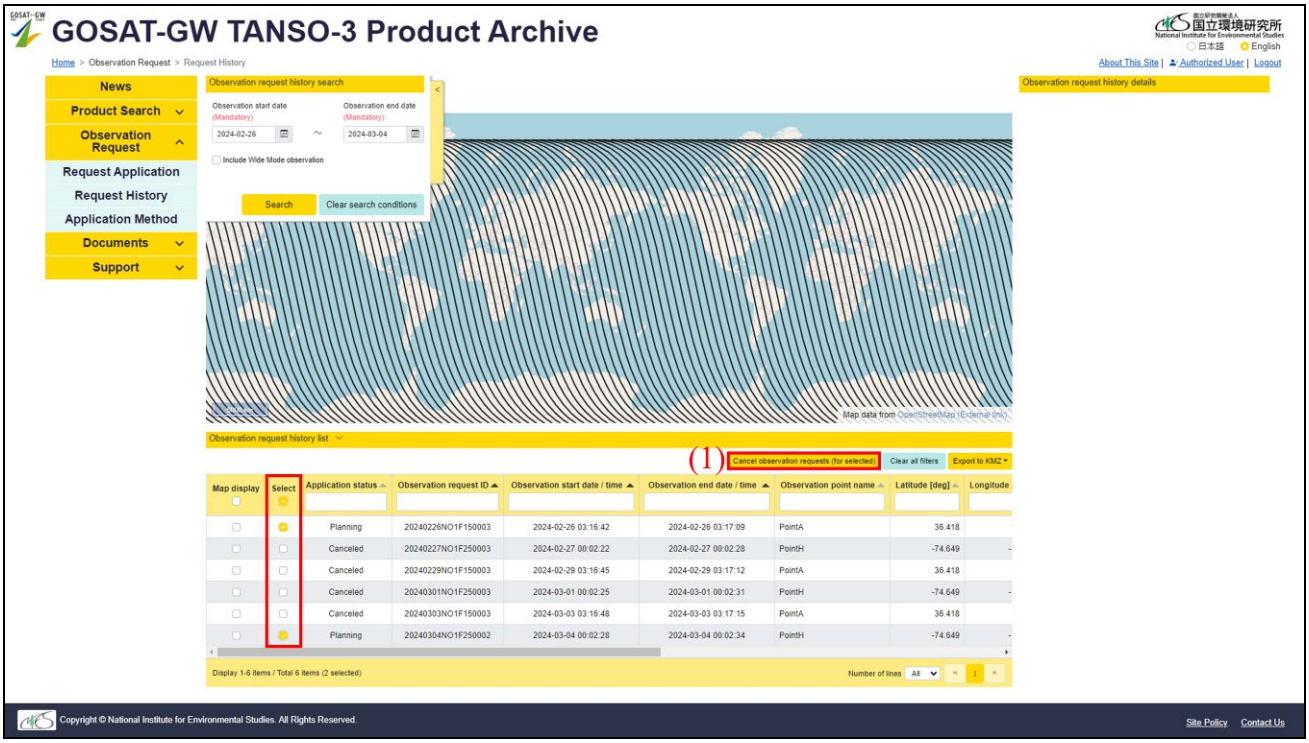


Figure 7-72 [Request History] screen when observation requests are selected.

(1) [Cancel observation request (for selected)] Button

To cancel a selected observation request, a [Confirmation] dialog will appear.

This button becomes active when you check the [Select] item for an observation request in the [Observation request history list] area.

Click the [Yes] button in the confirmation dialog.

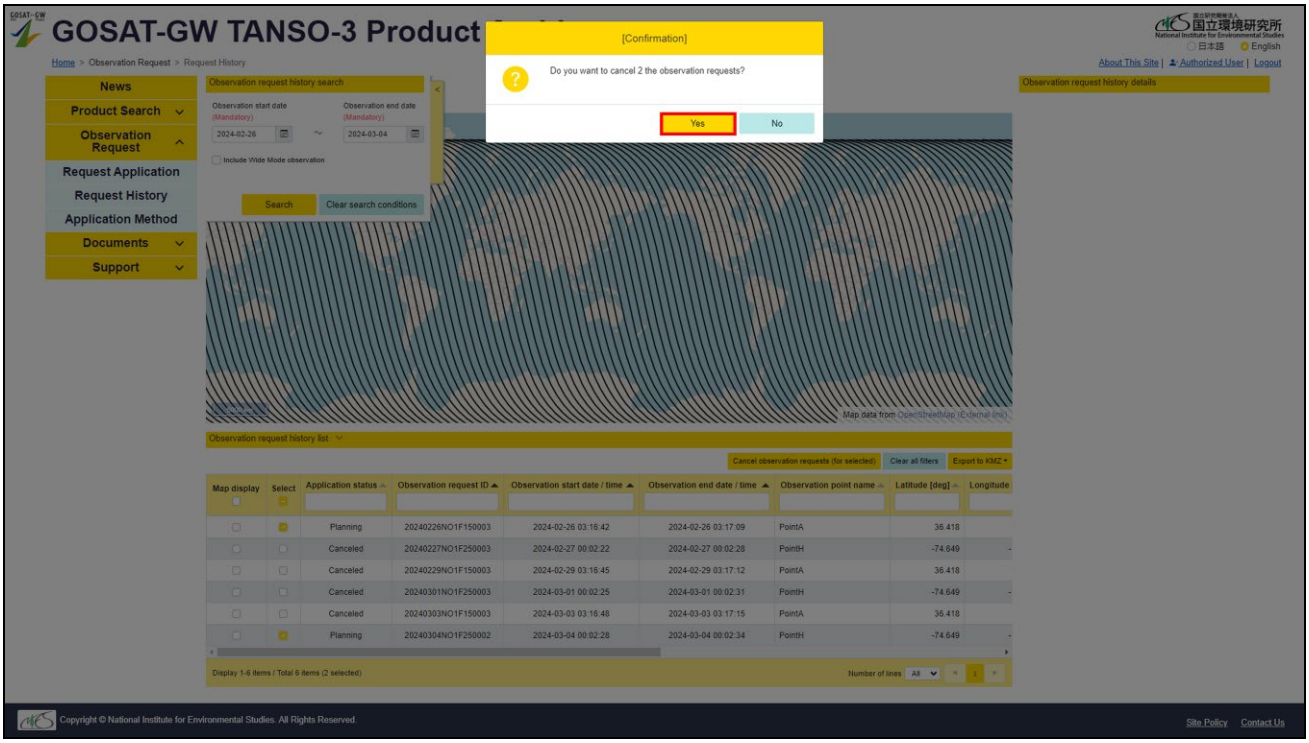


Figure 7-73 Confirmation Dialog when clicking the [Cancel observation request (for selected)] button

When the cancellation of the observation request is completed, an [Information] dialog will appear, so click the [OK] button.

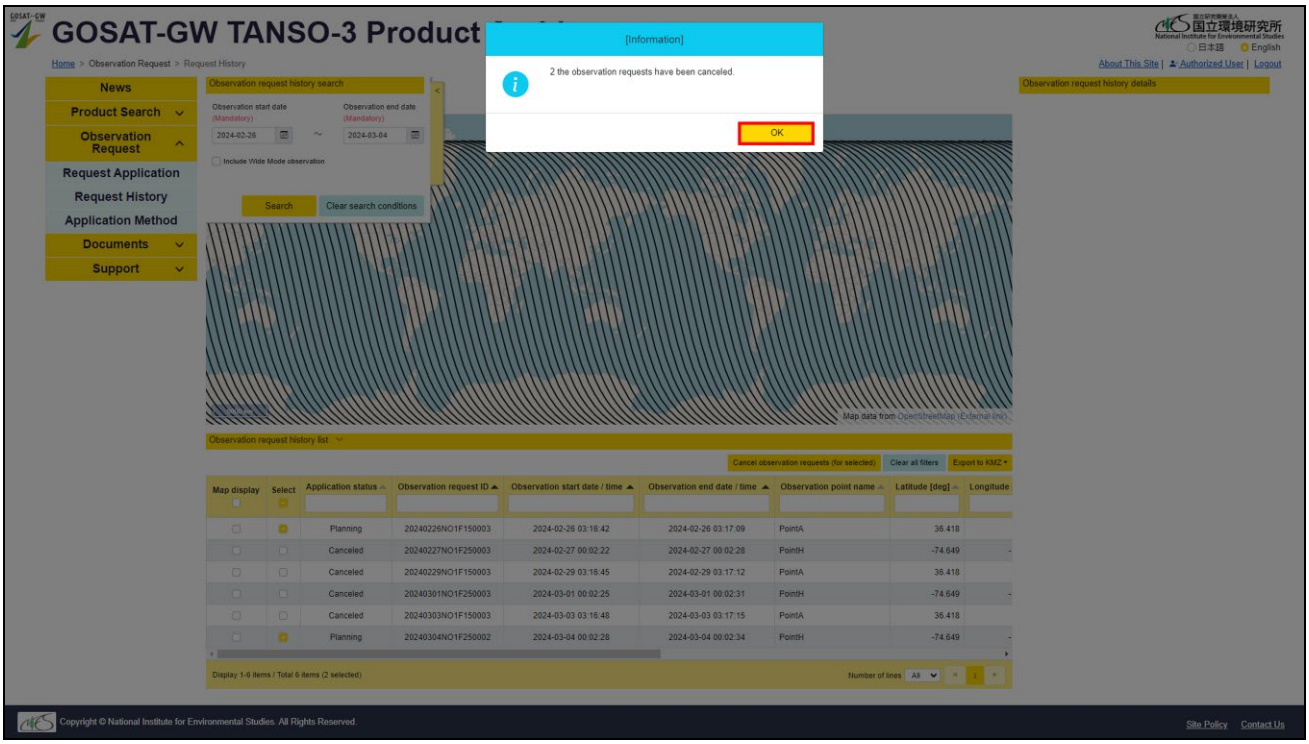
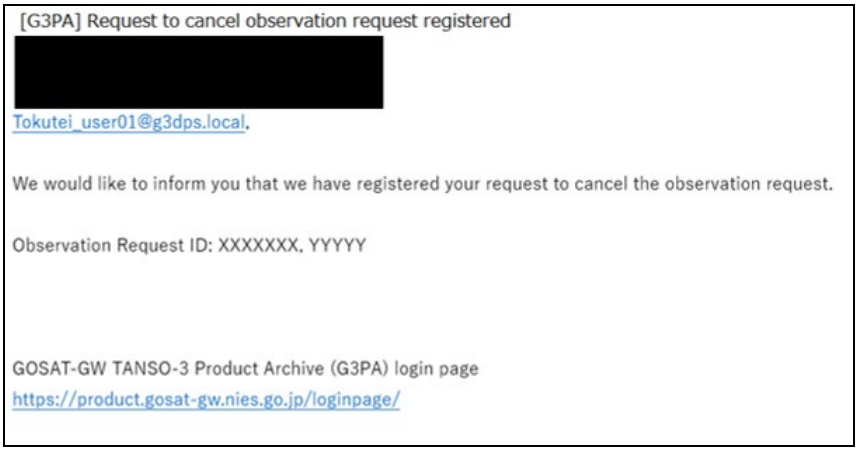


Figure 7-74 [Information] Dialog when Multiple Observation Request are Canceled.

A notification e-mail confirming the receipt of the cancellation request for the observation will be sent to the registered e-mail address.


[G3PA] Request to cancel observation request registered

[redacted]

Tokutei_user01@g3dps.local.

We would like to inform you that we have registered your request to cancel the observation request.

Observation Request ID: XXXXXXX, YYYYY

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 7-75 Notification e-mail for acceptance of Multiple Observation Request Cancellations

7.4.2. When the NIES representative cancels on behalf of the user upon request

You will receive an observation request change notification e-mail, as shown in Figure 7-71 or Figure 7-75, to the registered e-mail address. Follow the procedure in Section 7.2.1 to search for the observation request and confirm it from the [Observation request history list] area or the [observation request history details] area on the [Request History] screen.

7.4.3. When cancelled due to conflict resolution

You will receive an observation request change notification e-mail, as shown in Figure 7-67, to the registered e-mail address. Follow the procedure in Section 7.2.1 to search for the observation request and confirm it from the [Observation request history list] area or the [observation request history details] area on the [Request History] screen.

7.5. Notification of Acceptance or Rejection of Observation Requests

After receiving the notification e-mail of the acceptance or rejection results of the observation request, as shown in Figure 7-76, follow the procedure in Section 7.2.1 to search for the observation request. In the [Observation request history details] area of the [Request History] screen, select the [Request Response] tab to display the details of the observation request response.

Notes:

The notification e-mail for the acceptance or rejection results of the observation request is sent only when the acceptance or rejection is first decided in the observation request response.

Please note that if the acceptance or rejection is changed in any subsequent observation request responses or observation plans received thereafter, the notification e-mail for the acceptance or rejection results of the observation request will not be sent. However, the latest acceptance or rejection results of the observation request responses and observation plans can be checked on the [Request History] screen.

[G3PA] Observation request acceptance/rejection status updated

[redacted]

Tokutei_user01@g3dps.local,

The acceptance/rejection status of the observation requests has been updated.
Please confirm the acceptance/rejection status on the Observation Request History screen.
Please note that the status may change depending on the results of future observation planning.

Observation Request ID: XXXXXXX

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 7-76 Notification e-mail for acceptance or rejection results of observation requests

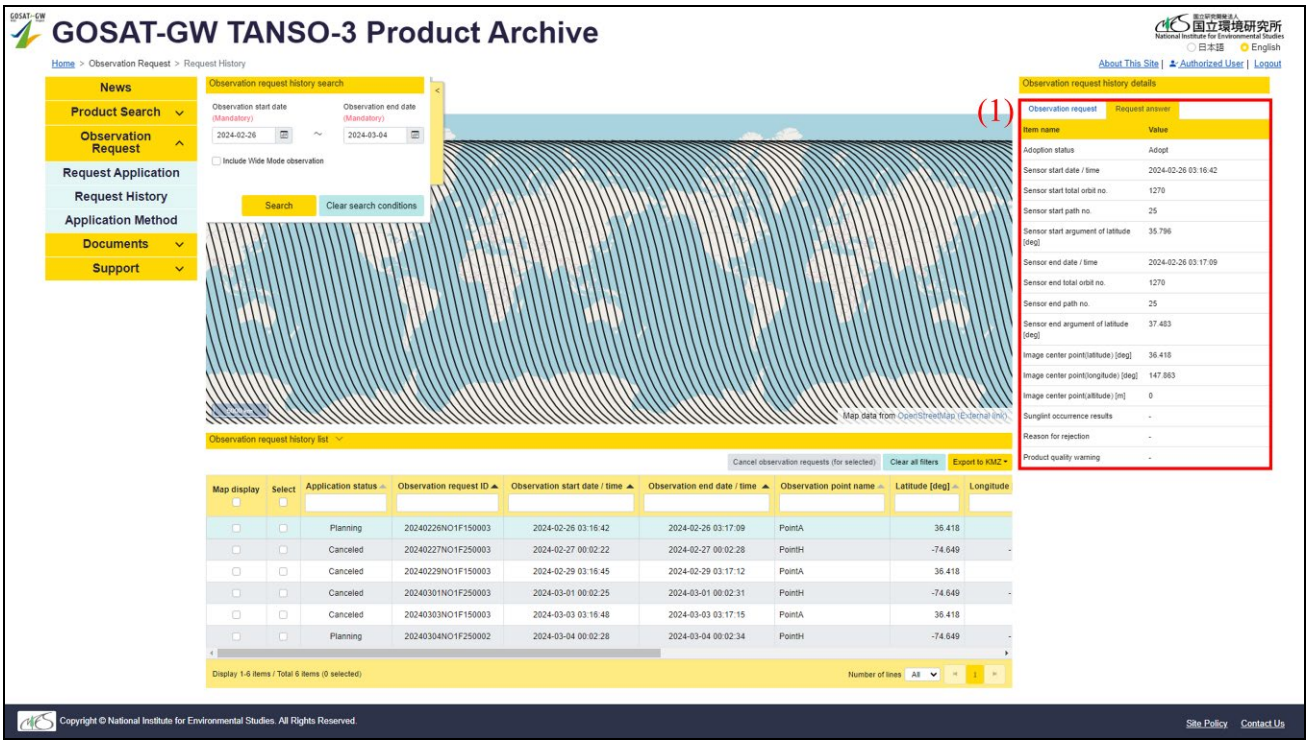


Figure 7-77 [Request History] screen when the [Request answer] tab is selected

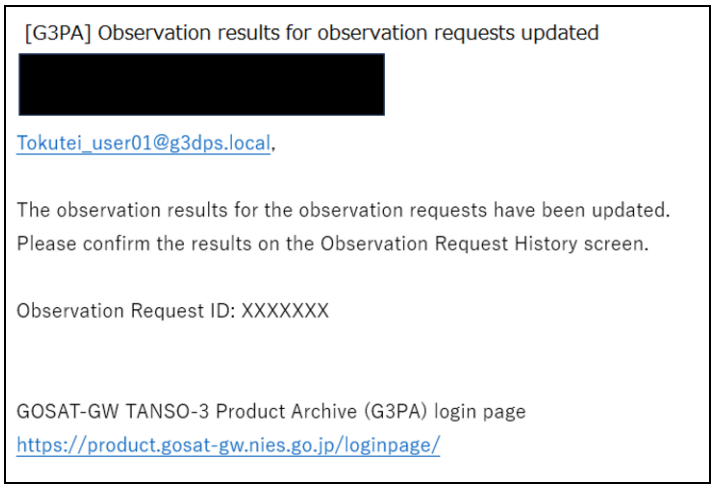
(1) [Request answer] tab

Displays the details of the observation request response. Please refer to Table 7.2-3 for the display items.

7.6. Notification of Observation Results

After receiving the observation performance notification e-mail at the registered e-mail address as shown in Figure 7-78, follow the procedure in Section 7.2.1 to search for observation requests. In the [Observation request history list] area of the [Request History] screen, check the [L1 processing status] item. For details on the display contents of the [L1 processing status] item, please refer to Table 7.2-1.

Additionally, for information on how to search and download products, please refer to Section 5.2 or 5.3. It is possible to conduct a product search using the observation request ID. For methods on searching for products using the observation request ID, please refer to Section 5.2.1, entering search conditions in (5) detailed options, or Section 5.3.1, command search.



[G3PA] Observation results for observation requests updated

[redacted]

Tokutei_user01@g3dps.local,

The observation results for the observation requests have been updated.
Please confirm the results on the Observation Request History screen.

Observation Request ID: XXXXXXX

GOSAT-GW TANSO-3 Product Archive (G3PA) login page
https://product.gosat-gw.nies.go.jp/loginpage/

Figure 7-78 Observation Performance Notification E-mail

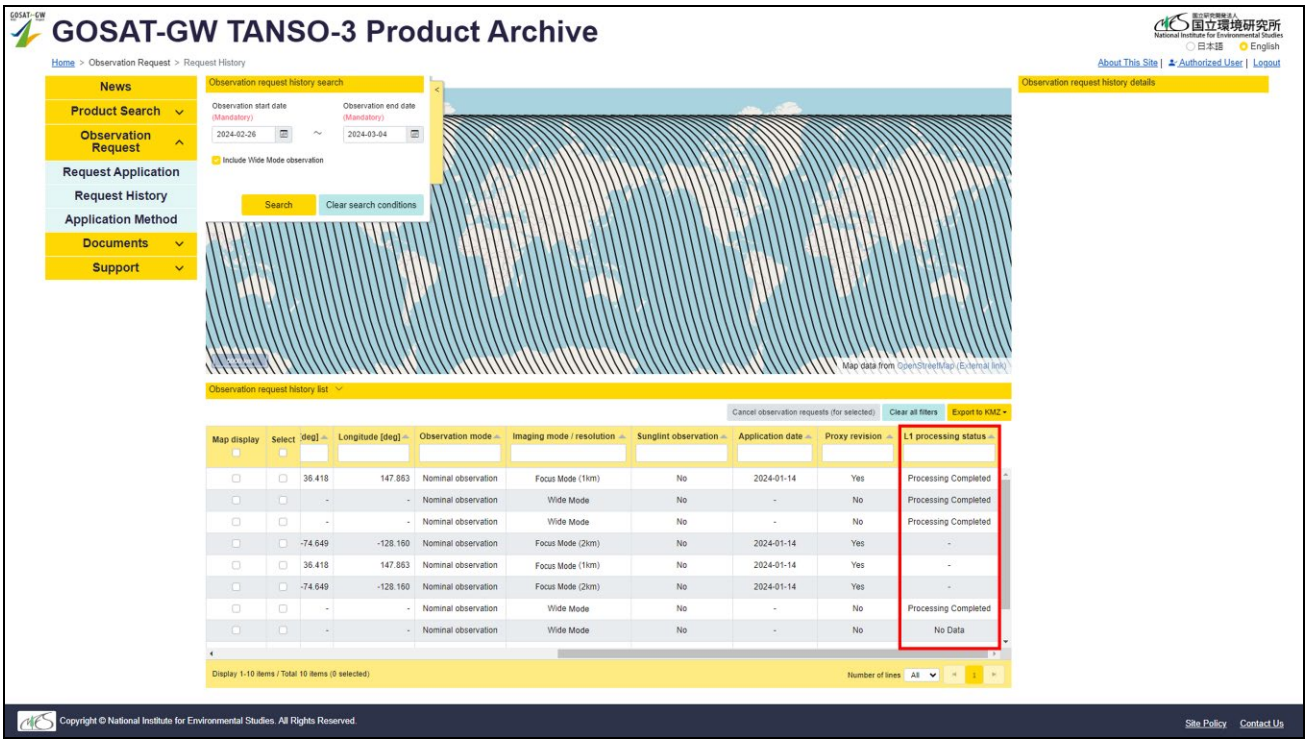


Figure 7-79 [Observation request history list] Area, [L1 processing status] Item

8. Others

This chapter provides various other information related to this service.

8.1. Contact Us

If you have any questions or concerns about this service, please contact us at the followings.

For product and services	
point of contact	NIES GOSAT-GW TANSO-3 Product Archive Support desk
E-mail	g3pa_desk@nies.go.jp

Appendix 1. Definitions of Terms

A1.1. Path number

The path number refers to one orbit of the GOSAT-GW satellite ground track. The boundary of a path is defined at the ascending node. As shown in Figure A1-1, one orbit consists of the sequence: ascending node → Northern Hemisphere → descending node → Southern Hemisphere → next ascending node. The path number is incremented by 3 each time the satellite crosses the ascending node, and the path numbers cycle through values from 1 to 44.

Note that the ground track and path numbers shown in Figure A1-1 are for illustrative purposes only and are not exact.

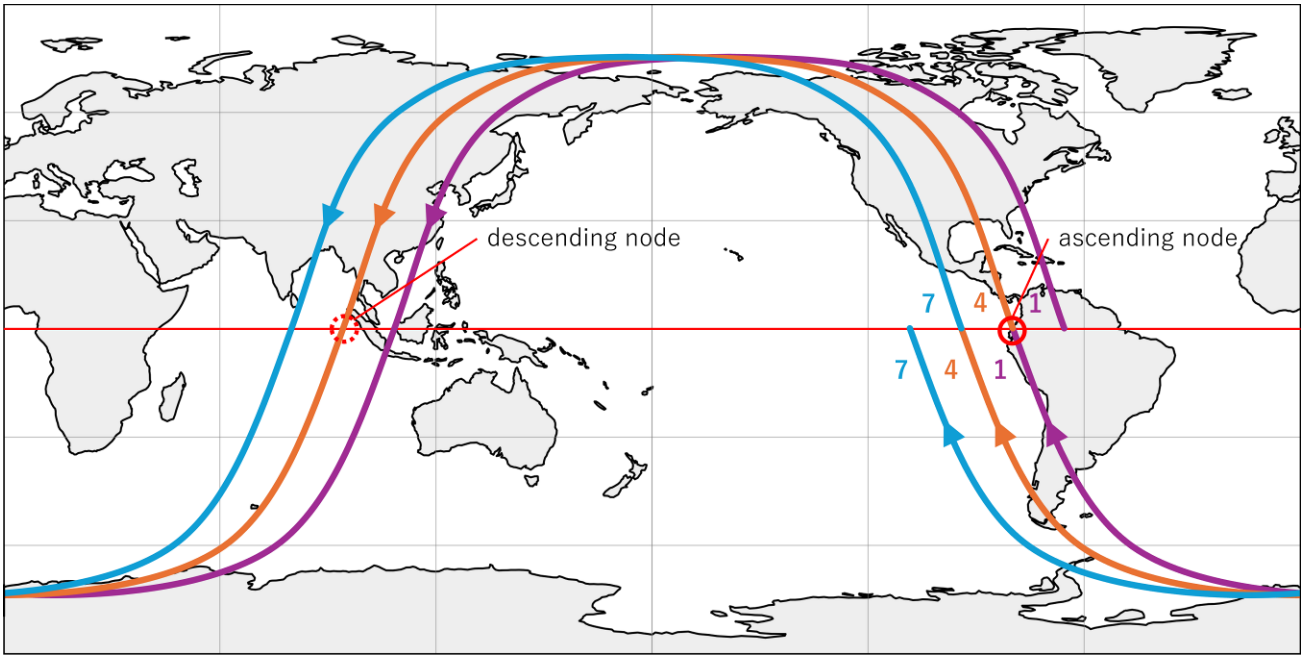


Figure A1-1 Division of path numbers

A1.2. Path number at the start of the first-frame observation

The "path number at the start of the first-frame observation" refers to the path number corresponding to the satellite position at the time when observation of the first frame in a product begins.

The following three examples are provided:

- L1/L2 product (Focus Mode)
- L1 product (Wide Mode)
- L2 product (Wide Mode)

Figure A1-2 shows an example of observation for an L1/L2 product (Focus Mode). It illustrates a special case in which the sensor is driven to point forward in the flight direction. Although the observation area is in the Northern Hemisphere, the satellite position at the start of observation has not crossed the ascending node. In this case, the path number at the start of the product's first-frame observation is 1.

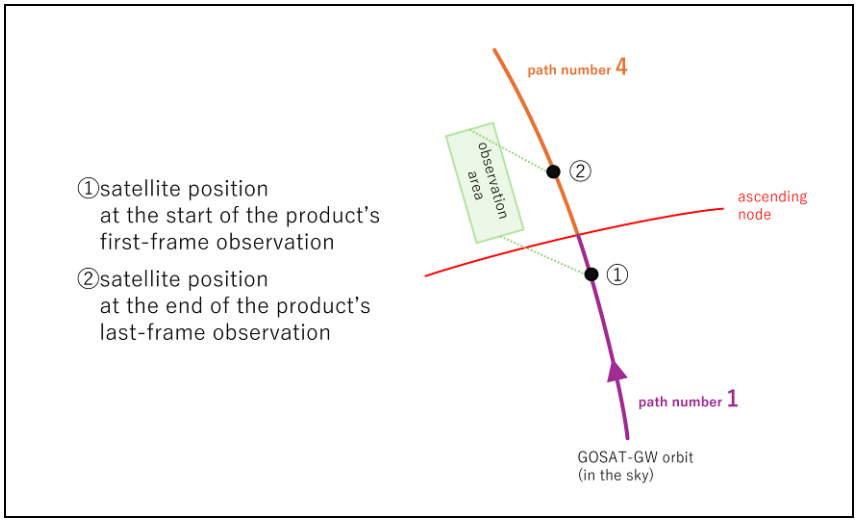


Figure A1-2 Relationship between observation area and satellite position (L1/L2 product (Focus Mode))

Figure A1-3 shows an example of observation for an L1 product (Wide Mode). Although the path number differs between the start and end of observation (4 at the start and 7 at the end), the path number at the start of the product's first-frame observation is 4.

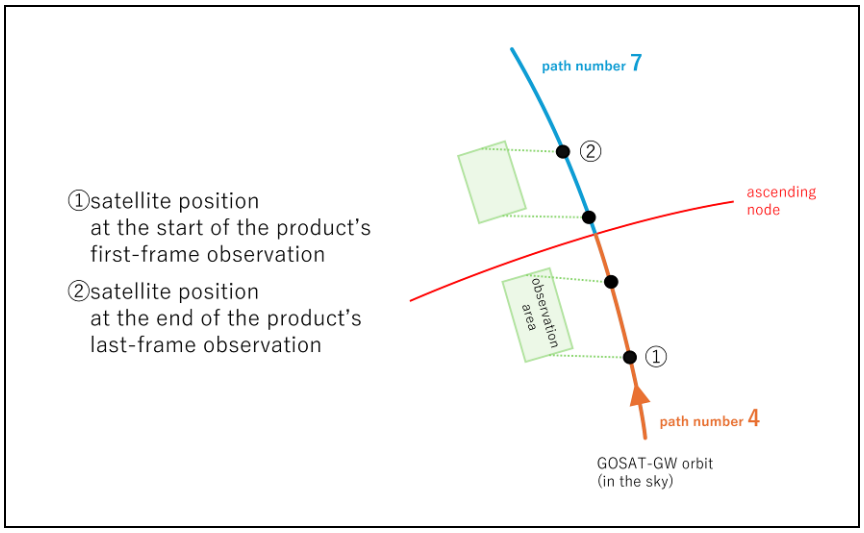


Figure A1-3 Relationship between observation area and satellite position (L1 product (Wide Mode))

Figure A1-4 shows an example of observation for an L2 product (Wide Mode). Since the L2 product (Wide Mode) is created from multiple L1 products as sources, the path numbers at the start of the first-frame observation are counted for each source L1 product. In the case in Figure A1-4, the path numbers at the start of the product's first-frame observation are 1, 4, and 7.

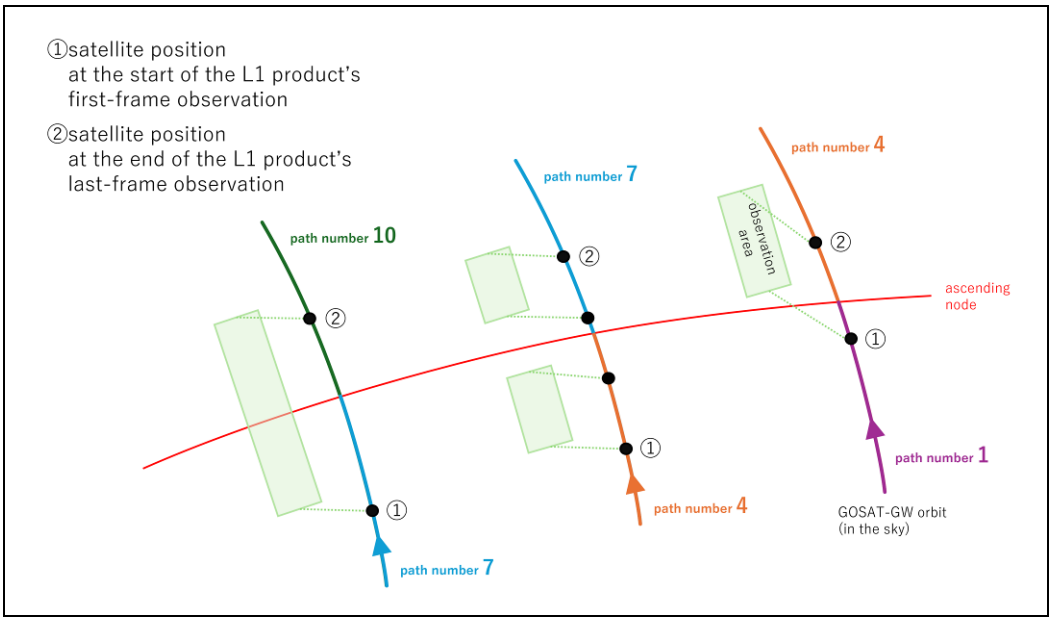


Figure A1-4 Relationship between observation area and satellite position (L2 product (Wide Mode))