GOSAT Data Archive Service Operation Manual

# GOSAT Data Archive Service Operation Manual https://data2.gosat.nies.go.jp/

March 2024

(Version 1.6)

Version	Date	Page	Change
Ver.1.1	2017.6.22	25-75	6 Procedures for Browsing GOSAT Product Images is modified.
			• The list of Gallery images is modified.
			• L4 Animation is deleted from Gallery images.
Ver.1.1	2017.8.28	60	6.13 Global Gas Concentration Animations Screen is modified.
			• The screen of Gallery images is modified.
Ver.1.1	2018.3.19	29	6.2 Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratios Screen is modified.
			• Scroll function is added.
Ver.1.1	2018.3.19	32	6.3 Monthly Global Map of the CH4 Column-Averaged Volume Mixing Ratios Screen is modified.
			• Scroll function is added.
Ver.1.1	2018.3.19	35	6.4 Monthly Global Map of L2 H2O Column-Averaged Volume Mixing Ratios Screen is modified.
			• Scroll function is added.
Ver.1.1	2018.3.19	38	6.5 FTS SWIR L3 XCO2 Screen is modified.
			• Scroll function is added.
Ver.1.1	2018.3.19	41	6.6 FTS SWIR L3 XCH4 Screen is modified.
			• Scroll function is added.
Ver.1.1	2018.3.19	71	6.16 Global NDVI Map Screen is modified.
			• Scroll function is added.
Ver.1.1	2018.3.19	10	3.1 Screen Configuration is modified.
			• The GDAS Top Screen is modified.
Ver.1.1	2018.3.19	13	4.1 GDAS Top Screen is modified.
			• The GDAS Top Screen is modified.
Ver.1.1	2018.3.19	19	5.3 Technical Information Screen is modified.
			• The Technical Information Screen is modified.
Ver.1.2	2018.07.18	191	<ul><li>Table 13.3 GOSAT Product Provision Format is modified.</li><li>• TIR input dataset is added</li></ul>

# Change History

Version	Date	Page	Change			
Ver.1.2	2018.07.18	193	Table 13.5 Product Identification Character Strings			
			is modified.			
			• TIR input dataset is added.			
Ver.1.2	2019.03.25	117-118	9.1.2 Downloading Products Archived in Daily Units			
			is modified. • Downloading Products Archived in Path Unit for			
			FTSL1B is added.			
Ver.1.2	2019.03.25	190	Table 13.3 GOSAT Product Provision Format is			
			modified.			
			• It has been added the FTS L1B data archived in			
Ver.1.3	2020.03.25	9	Path unit.			
ver.1.5	2020.03.25	J	2.2.2 Required Software is modified.			
			• Required version of WGET Command is added.			
Ver.1.3	2020.03.25	74-76	6.17 Browse Images of the Global Radiance			
			Distribution Screen is modified.			
			$\cdot$ The Browse Images of the Global Radiance			
			Distribution Screen is modified.			
Ver.1.3	2020.03.25	92 - 95	8.1 Login is modified.			
			• The Download Screen is modified.			
Ver.1.3	2020.03.25	96-97	8.2 Logout is modified.			
			• The Logout images are modified.			
Ver.1.3	2020.03.25	104-166	9 Procedure for Downloading Products is modified.			
			• Documents are removed.			
			• Product Download Screens are modified.			
Ver.1.3	2020.03.25	187-188	12.4 Tools Screen is modified.			
			• The Tools Screen is modified.			
Ver.1.4	2020.08.24	7	2.2.1 Recommended Browsers			
			• Recommended version of OS is added for Internet			
			Explorer.			
Ver.1.4	2021.01.13	77	7.2 Procedure Through to the Completion of			
			Registering General User Accounts is modified.			
			• The User Registration Screen is modified.			
Ver.1.4	2021.01.13	00				
ver.1.4	2021.01.13	86	7.3 Procedure Through to Applying for Authorized			
			User Applications is modified.			
			• The User Registration Screen is modified.			

Version	Date	Page	Change				
Ver.1.4	2021.03.23	30	6.2 Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratios Screen				
			• "LastYear" and "NextYear" Buttons are added.				
Ver.1.4	2021.03.23	33	6.3 Monthly Global Map of the CH4 Column-Averaged Volume Mixing Ratios Screen is modified.				
			• "LastYear" and "NextYear" Buttons are added.				
Ver.1.4	2021.03.23	36	<ul> <li>6.4 Monthly Global Map of L2 H2O Column-Averaged Volume Mixing Ratios Screen is modified.</li> <li>"LastYear" and "NextYear" Buttons are added.</li> </ul>				
Ver.1.4	2021.03.23	39	6.5 FTS SWIR L3 XCO2 Screen is modified.				
			<ul> <li>"LastYear" and "NextYear" Buttons are added.</li> </ul>				
Ver.1.4	2021.03.23	42	6.6 FTS SWIR L3 XCH4 Screen is modified.				
			• "LastYear" and "NextYear" Buttons are added.				
Ver.1.4	2021.03.23	72	6.16 Global NDVI Map Screen is modified.				
			$\cdot$ "LastYear" and "NextYear" Buttons are added.				
Ver.1.4	2021.03.23	166-167	10.1 Documents & Information Screen is modified.				
			• The screen image is modified.				
Ver.1.4	2021.03.23	169	10.3 The period when there is no observational data is modified.				
			• The screen is modified.				
Ver.1.5	2021.04.28	186-187	12.4 Tools Screen is modified.				
			• The screen is modified.				
			• "GOSAT FTS SWIR L2 Drawing Tool" is added.				
Ver.1.5	2021.08.25	189-190	<ul><li>Table 13.3 GOSAT Product Provision Format is modified.</li><li>FTS estimated geolocation data is deleted.</li></ul>				
			• L2 H2O column amount (TIR) is added.				
Ver.1.5	2021.08.25	192-193	<ul><li>Table 13.5 Product Identification Character Strings is modified.</li><li>FTS estimated geolocation data is deleted.</li></ul>				
			$\cdot$ L2 H2O column amount (TIR) is added.				

Version	Date	Page	Change				
Ver.1.6	2024.03.12	7-9	2.2.1 Recommended Browsers is modified.				
			• Internet Explorer 11 is deleted.				
			• Each browser version is modified.				
			• The JavaScript enabling procedure is modified.				
Ver.1.6	2024.03.12	11	3.1 Screen Configuration is modified.				
			• Second information is modified.				
Ver.1.6	2024.03.12	76-91	7.2 Procedure Through to the Completion of				
			Registering General User Accounts is modified.				
			$\boldsymbol{\cdot}$ The Terms of Service Screen for general users and				
			the Privacy Policy Screen are modified.				
			• The GDPR Privacy Policy Screen and the Cookie				
			Policy Screen are added.				
			• Screen images are modified.				
			• Description text is modified.				
Ver.1.6	2024.03.12	92-95	7.3 Procedure Through to Applying for Authorized				
			User Applications is modified.				
			$\cdot$ The Terms of Service Screen for authorized users is				
			modified.				
			• Screen images are modified.				
			• Description text is modified.				
Ver.1.6	2024.03.12	96-103	8.1 Login is modified.				
			• The Privacy Policy Screen, the Privacy Policy of				
			the National Institute for Environmental Studies				
			Screen, and the Confirmation of service use				
			suspension Screen are added.				
			• Description text is modified.				
Ver.1.6	2024.03.12	197-198	12.5 Site Policy Screen is added.				
			• The section is added.				
Ver.1.6	2024.03.12	199	12.6 Cookie Policy Screen is added.				
			• The section is added.				
Ver.1.6	2024.03.12	200-201	12.7 GOSAT Privacy Policy Screen is added.				
			• The section is added.				
Ver.1.6	2024.03.12	202-205	12.8 GDPR Privacy Policy Screen is added.				
			• The section is added.				

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# 1 GOSAT Data Archive Service (GDAS) Overview

#### 1.1 GDAS Overview

GDAS is a service that archives and provides GOSAT products in packs of providable units. The functions provided with this service are listed below.

<b>GOSAT</b> Information	$\div$ Enables documents related to GOSAT products, contact				
Browsing Function	numbers for GOSAT products and other such				
	information to be browsed and downloaded.				
GOSAT Image Browsing	: Enables images generated by GOSAT products to be				
Function	browsed.				
Product Downloading	: Enables GOSAT products to be downloaded.				
Function					
Account Registration	: Enables accounts for downloading GOSAT products to				
Function	be registered.				
User Information Editing	: Enables user information to be updated and passwords				
Function	to be reset.				

This manual explains how to operate GDAS.

## 1.2 Concerns

If the clock of your machine is proceeded or delayed more than 5 minutes, there is possibility that the products cannot be downloaded, successfully. Please adjust the clock of your machine to the correct time.

## 1.3 Using the Manual

The manual uses the following formats for screen descriptions.

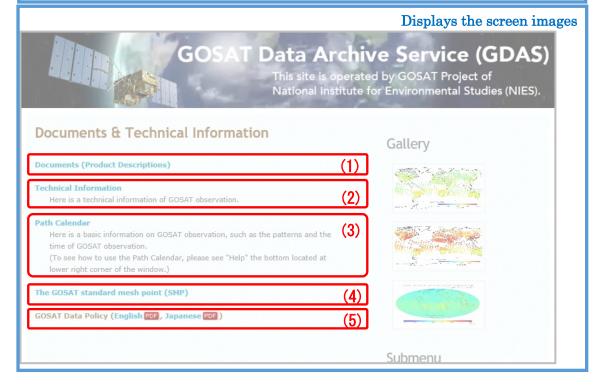
The procedure for moving between screens is explained first of all, and the screen descriptions are provided afterward.

#### (1) Moving Between Screens



#### (2) Screen Name

**Contains details on the operations available within the screen** Displays the documents and technical information related to GOSAT. Click on any of the documents to move to the relevant document screen.



Con	tains details on the contents provided within the screen					
(1) Documents (Product	: The link to the [Documents (Product Descriptions)]					
Descriptions) Link	Screen from which product information can be					
	downloaded.					
(2) Technical Information	: The link to the [Technical Information] Screen					
Link	from which technical sensor information can be					
	downloaded.					
(3) Path Calendar Link	: The link to the [Path Calendar] Screen from which					
	path calendars can be downloaded.					
(4) The GOSAT standard	: The link to the [GOSAT Standard Mesh Point]					
mesh point (SMP) Link	Screen from which GOSAT standard mesh point					
	information can be downloaded.					
(5) GOSAT Data Policy	: The link to the GOSAT Data Policy.					
Contains detail	Contains details on important points, supplementary information, and					
	precautions in accordance with necessity					
Important: Lists import	ant details.					

Information: Lists supplementary information.

Note: Lists points to note.

# 2 Using GDAS

The following users are assumed as GDAS users.

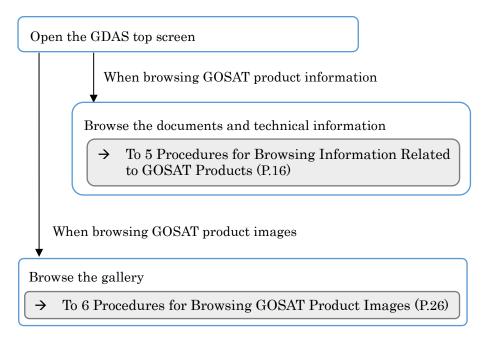
- <u>Guest users</u>, who browse GOSAT product images and information without logging in
- <u>Registered users</u>, who register accounts and downloading GOSAT products after logging in

#### 2.1 Flowchart for GDAS Usage

A summary of procedures for using GDAS is provided below.

(1) Browsing GOSAT product images and information without logging in

A summary of the procedure to browse GOSAT product images and information as <u>a</u> <u>guest user</u> is shown below.



(2) Registering an account

A summary of the procedure required to register an account in order to download GOSAT products is shown below.

Open the GDAS top screen

When downloading GOSAT products from GDAS for the first time

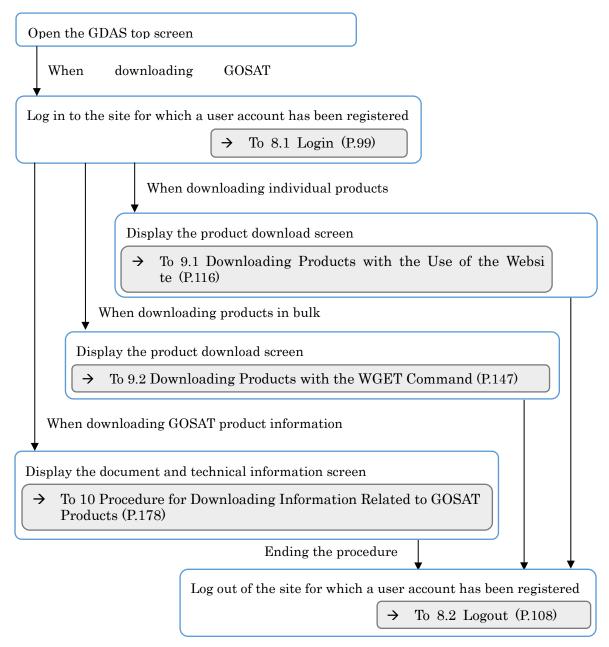
Register an account

→ To 7 User Registration Procedure (P.79)

<u>Important</u>: Users who have registered an account with GUIG do not need to register an account with GDAS. Contact

gosat-support@nies.go.jp if your registration status is unknown.

(3) Registering an account and downloading GOSAT products after logging in A summary of the procedure required for registered users to download GOSAT products is shown below.



#### 2.2 GDAS Usage Conditions

The conditions for using GDAS are listed below.

#### 2.2.1 Recommended Browsers

The recommended browsers for using GDAS are listed below. Please note that the numbers in parentheses indicate the versions in which operation has been confirmed.

- ✓ Mozilla Firefox (118)
- ✓ Safari (17)
- ✓ Google Chrome (118)
- $\checkmark$  Microsoft Edge (118)

\* It is necessary to enable JavaScript on the browser settings.

A sample of the method of setting the required parameters on Microsoft Edge is explained below.

 Click on the […] icon displayed on the web browser menu, and then click on [Settings]. (The screen will move to the Settings tab.)

. 6 .	GOSAT Data Archive Service X	+				-	O	×		
← C	https://data2.gosat.nies.go.jp/inde	A <sup>N</sup>	<b>★</b> 0	£_=	Ē	~		<b>O</b>		
					New ta	b			Ctrl+	T
				0	New wi	indow			Ctrl+	N
				Ę	New In	Private	window	Ctrl	+Shift+	N
					Zoom		_	100%	+	2
				£≞	Favorite	es		Ctrl	+Shift+	0
				5	History				Ctrl+	Н
				0	Shoppi	ng				
				⊥	Downlo	bads			Ctrl	۶J
				BB	Apps					۲
				3	Extensi	ons				
				~	Browse	r essen	tials			
				Ø	Print				Ctrl+	. P
				ø	Web ca	pture		Ctr	l+Shift+	-S
				හ	Find or	n page			Ctrl+	۰F
					More to	ools				•
				ŝ	Setting	s				
				0	Help ar	nd feed	back			•
					Close N	Aicroso	ft Edge			

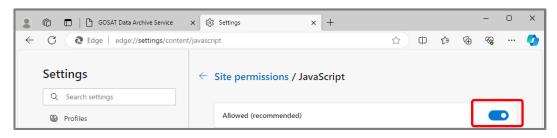
(2) Then click on the [Cookies and site permissions] shown on the [Settings] tab.

	🍘 🔲 🗋 GOSAT Data Archive Service	x 🕄 Settings x +		- 0	×
$\leftarrow$	C & Edge   edge://settings/profiles		ሰ 🗘	r⊕ ~§	- 🍫
	Settings	Your profile		+ Add profile	
	Q Search settings ❷ Profiles ↑ Privacy, search, and services	Sync is on		Sign out	
	<ul> <li>Appearance</li> <li>Sidebar</li> </ul>	O Manage account		Ø	
	Start, home, and new tabs	لم) Sync		>	
	<ul> <li>Share, copy and paste</li> <li>Cookies and site permissions</li> </ul>			>	
	Default browser	ersonal info		>	
	⊥ Downloads अ Family safety	Passwords		>	

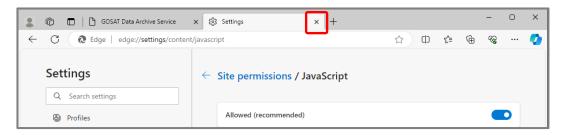
(3) Click on [JavaScript] displayed on the Site permissions.

💄 🍘 🗖 🎦 GOSAT Data Archive Ser	ce x 🕄 Settings x +	- 0	×
← C	content ගි 🗘 රූ රූ ලි		<b>Ç</b>
Settings	Site permissions		
Q Search settings	All sites View permissions for sites you've visited	>	
<ul> <li>Profiles</li> <li>Privacy, search, and services</li> <li>Appearance</li> </ul>	Recent activity The latest changes made to site permissions		
<ul> <li>Sidebar</li> <li>Start, home, and new tabs</li> <li>Share, copy and paste</li> </ul>	All permissions Permissions that are applied across all sites		
Cookies and site permissions	Location     Ask first	>	
y Downloads ੴ Family safety	Camera Ask first	>	
A <sup>r</sup> t Languages ☐ Printers □ System and performance	Microphone     Ask first	>	
<ul> <li>By contraining performance</li> <li>Reset settings</li> <li>Phone and other devices</li> </ul>	(•) Motion or light sensors Allow sites to use motion and light sensors	>	
<ul><li>Accessibility</li><li>About Microsoft Edge</li></ul>	Notifications     Ask first	>	
	JavaScript Allowed	>	
	[∠] Images	>	

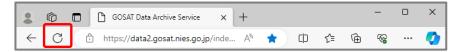
(4) If the [Allowed (recommended)] parameter is disabled, enable it.



(5) Click on the close button on the [Settings] tab to close it.



(6) Click on the [Refresh] icon on the web browser menu to reload the web page. This will enable JavaScript.



#### 2.2.2 Required Software

Products are archived and provided on GDAS in the tar format and tar.gz format. It is therefore necessary to be in possession of a tool capable of compressing and decompressing the tar and tar.gz formats.

When downloading Products with the WGET Command, use wget version 1.6.1 or later. See [12.4 Tools Screen] for details on the software required to check products.

# 3 Screen Configuration

#### 3.1 Screen Configuration

The screens displayed on GDAS are configured in the following way.



- Menu
   The area displaying links to each screen (account registration, login, etc.). Login information will also be displayed after login.
- (2) Side menu
   The area displaying links to GOSAT product information (inquiries, tools, etc.) and to web screens related to GOSAT. Links to products other than those displayed in the main screen will also be displayed on the download screen after login.
- (3) Main : The areas that display various types of information targeting Screens GDAS users.

<u>Information</u>: Documents, technical information and the user information editing screen will not be displayed on the side menu after login.

<u>Information</u>: If [PDF], [Zip], [Excel], etc., are displayed on the right-hand side of the links, the links provide files saved in the listed formats.

FAQ is here (English PDF), Japanese PDF).

Example: Clicking on the English or Japanese links shown above will download the file in the PDF format.

# 4 Procedures for Browsing the GDAS Top Screen

This section explains the procedures for browsing the [GDAS top] Screen.

## 4.1 GDAS Top Screen

#### (1) Moving to the [GDAS Top] Screen

Start up the browser and access [https://data2.gosat.nies.go.jp] to display the [GDAS Top] Screen.



# (2) [GDAS Top] Screen

Displays the most up-to-date information pertaining to the GDAS site. Click on the relevant links to move between the various screens available on the GDAS site.

Contraction of Contra	(3 User Registration Login
This site is	operated by GOSAT Project of nstitute for Environmental Studies (NIES).
This website provides GOSAT products and related information to general users researchers	Gallery
News & Topics	(6) (8)
2017/12/27	
<release 205="" conversion="" evaluation="" for="" of="" ra="" radiometric="" user's="" ver.=""></release>	La contraction of the second
We started distributing Ver. 205.205 FTS L1B products to RA investigators on December 21, 2017. Ver. 205 Radiometric Conversion was released to RA users at "Technical Information" on "Documents & Information" page after login to GDAS. Any feedbacks from you would be welcomed and appreciated. If you have any comments or suggestions on these products, please inform us at gosat-prj1@nies.go.jp by January 21, 2018.	Ger 14 Hit Die La Care Arage Care Arage
2017/12/21	
<release 205.205="" for="" fts="" l1b="" of="" product="" ra="" users="" ver.=""> We are now preparing for upgrading the GDSAT FTS L1 products. For evaluation purposes, we started distributing Ver. 205.205 FTS L1B products to RA investigators prior to the release to general users (GU) on December 21, 2017. Currently, the products of the period from April 23, 2003 through December 31,</release>	
2012 are ready to release. We will distribute further products of the subsequent periods as they are ready. In obtaining data products, please select the FTS L1B	Submenu
data (V205.205) from the "Download" page of GDAS. As the products of Ver. 205.205 are released temporarily for evaluation, the version number will be observed to Ver. 210-210 at the official valuess to CU.	How to use this website (9
Maintenance Schedule Archives Update History	Data Users Handbook Point of Contact / FAO
How to obtain GOSAT data products from GD	
Please click the login link at the top of this page and log in with the registered acco (e-mail address) and password. A list of accessible GOSAT data products will be	
displayed. If you do NOT have a user account, please complete the registration first from here	
NOTE for GUIG users: Your GUIG account continues to be valid for GDAS. No	

(1)	Documents &	:	The link to the [Documents & Information] Screen that
	Information Link		displays a list of available documents and technical
			information, etc.
(2)	Gallery Link	:	The link to the [Gallery] Screen that displays a list of
			galleries by GOSAT products.
(3)	User Registration	:	The link to the [User Registration] Screen on which new
	Link		accounts are registered.
(4)	Login Link	:	The link to the [Login] Screen on which registered users
			log into GDAS.

		•						
(5)	Japanese Link	:	The link for displaying the top screen in Japanese.					
(6)	Maintenance	:	The area displaying information related to maintenance					
	Schedule		scheduled to be carried out in the near future.					
(7)	News & Topics	:	The area display information from GDAS.					
(8)	Gallery	:	The link to the GOSAT product gallery.					
(9)	Submenu	: Links to information required for using GDAS.						
			•How to use this website					
			•Data Users Handbook					
			Data Users Handbook					
			•How to use this website					
			•Tools					
			•Site Policy					
(10)	Links	:	Links to projects and research institutes related to					
			GOSAT.					

# 5 Procedures for Browsing Information Related to GOSAT Products

This section explains the procedures for browsing and downloading information related to GOSAT products.

# 5.1 Documents & Information Screen

(1) Moving to the [Documents & Information] Screen

Click on [Documents & Information] on the [GDAS Top] Screen (see section 4.1) to move to the [Documents & Information] Screen.

Countrate parts	Home	Documents & Information	Gallery	User Registration	Login	Japanese
		GOSAT Dat		hive Serv		iDAS)
		Nati	onal Institu	ute for Environme	ntal Studie	es (NIES).

#### (2) [Documents & Information] Screen

Displays the documents and technical information related to GOSAT. Click on any of the documents to move to the relevant document screen.

This site is	s operated by GOSAT Project of Institute for Environmental Studies (NIES)
Documents & Technical Information	Gallery
Documents (Product Descriptions)	(1)
Technical Information Here is a technical information of GOSAT observation.	(2)
Path Calendar Here is a basic information on GOSAT observation, such as the patterns and the time of GOSAT observation. (To see how to use the Path Calendar, please see "Help" the bottom located at lower right corner of the window.)	the second s
The GOSAT standard mesh point (SMP)	(4)
GOSAT Data Policy (English POP, Japanese POP)	(5)
	Submenu

- (1) Documents (Product : The link to the [Documents (Product Descriptions)]
   Descriptions) Link : Screen from which product information can be downloaded.
  - (2) Technical Information : The link to the [Technical Information] Screen from
     Link which technical sensor information can be
     downloaded.
  - (3) Path Calendar Link: The link to the [Path Calendar] Screen from which path calendars can be downloaded.
  - (4) The GOSAT standard
     The link to the [GOSAT Standard Mesh Point]
     mesh point (SMP) Link
     Screen from which GOSAT standard mesh point information can be downloaded.
  - (5) GOSAT Data Policy : The link to the GOSAT Data Policy.

## 5.2 Documents (Product Descriptions) Screen

(1) Moving to the [Documents (Product Description)] Screen

Click on [Documents] on the [Documents & Information] Screen (see section 5.1) to move to the [Documents] Screen (new screen).

Documents & Technical Information	Gallery
Documents (Product Descriptions)	and the second second
Technical Information Here is a technical information of GOSAT observation.	and the states

(2) [Documents (Product Description)] Screen

Displays information related to GOSAT (ATBD, Product Format Description, Important Note at Releasing) ((1) below). Click on any of the links to download the relevant file.

	(3	Close
GOSAT Data Archive Servic This site is operated by GOSAT Pro National Institute for Environmental	oject of	
Documents & Technical Information		
Please select the 'Title' which you would like to display.		
Note: Documents with the asterisk (*) are provided only in English.		
Documents (Product Descriptions)		(1)
Please select the 'Product name' which you would like to display.		
FTS L1B data (2		
FTS L2 column amount (SWIR)		
FTS L2 profile (TIR)		
FTS L3 global distribution (SWIR)		
CAI L1B data		
CAI L1B+ data		
CAI L2 cloud flag		
CAI L3 global radiance distribution		
CAI L3 global reflectance distribution		
CAI L3 NDVI		
L4A global CO2 flux / L4B global CO2 distribution		
L4A global CH4 flux / L4B global CH4 distribution		
		Top of Page

- (1) Documents: Displays a list of products from which<br/>documents can be downloaded.
- (2) Product Name (FTS L1B : Displays a list of documents for each product. data, etc.)
- (3) [Close] Link : The link for closing the [Document] Screen.

**Important:** The following will be displayed when the product name is clicked.

				asure (English 🎫)	Successo March 1 🔤 🛛	
i	important Ca	Obs. Periods	el 18 Product Band	4 (This was corrected at the versi	on-up of V160160.) (English 🔤 , J Important Notes at	lapanese 🖷
8	Version	(YYYY/MM/DD)	ATBD	Product Format Descriptions	Releasing	
	V201.202	2016/03/26- present		*V201.20x (English PDF)	V201.202 (Release Notes for Product) (English POF, Japanese PDF)	
	V161.161	2015/02/01- present	N/A	V161.160-V161.161	V161.161 (Release Notes for Product) (English POP, Japanese PDP)	
	V161.160	2009/04/23- 2014/12/14		(English FDF), Japanese FDF)	V161.160 (Release Notes for Product) (English FOF, Japanese FDF)	

<u>Information</u>: It is also possible to display the [Technical Information], [Path Calendar] and [GOSAT Standard Mesh Point] displayed in the list of [Documents & Technical Information] from this screen.

# 5.3 Technical Information Screen

(1) Moving to the [Technical Information] Screen

Click on [Technical Information] on the [Documents & Information] Screen (see section 5.1) to move to the [Technical Information] Screen (new screen).

Documents & Technical Information	Gallery
Documents (Product Descriptions)	and the second second
Technical Information	Minister of State
Here is a technical information of GOSAT observation.	C arran

(2) [Technical Information] Screen

Displays information related to the GOSAT FTS sensors and CAI sensors ((1) below). Click on any of the links to download the relevant file.

COSAT CONTRACTOR		(3)	Close
GOSAT	Data Archive Servi This site is operated by GOSAT I National Institute for Environmen	Project of	
Documents & Technical Information Please select the 'Title' which you would like to display. Note: Documents with the asterisk (*) are provided only in English Documents (Product Descriptions)			
VTechnical Information			(1)
FTS			
►FTS Radiometric Conversion for Band1-3			
Instrument line shape function			
*GOSAT FTS Polarization Model Description (English Portion)	b		
*Estimated Correction Table for delta AT & delta CT Ang	les for geolocation error in FTS L1B (English	PDF )	
CAI Spectral response function	(2		
	•		Top of Page
▶Path Calendar			
►The GOSAT standard mesh point (SMP)			
Copyright(C) National Institute for	Environmental Studies. All Rights Reserved.		

(1)	Technical Information	:	Displays	a	list	of	technical	information	for	each
			sensor.							
(2)	Technical Information	:	Displays	in	divid	lual	technical	information	foi	the :
	for the Sensors		sensors.							

	(3)	[Close] Link	:	The	link	for	closing	the	[Technical	Information]	
Screen.											

# <u>Important</u>: The following details will be displayed when the title of the technical information is clicked.

Spectral response function
Definitions:
WL = Wavelength [nm]
SRF = Normalized spectral response function [a.u.]

SRF file format ex. SRF(B1): WL(B1), SRF(B1)

Caveats:

April 23, 2009 (Algorithm Version: 006, Parameter Version: 006, Date: 090423)
(1) SRF is evaluated by multiplying of filter optics transmittance and detector response.
(2) Si CCDs are used for B1, B2 and B3, while InGaAs for B4.

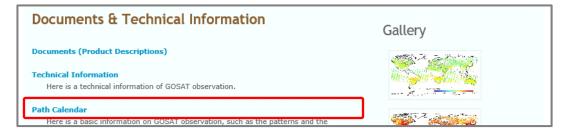
For SRF file download : Click here

<u>Information</u>: It is also possible to display the [Technical Information], [Path Calendar] and [GOSAT Standard Mesh Point] displayed in the list of [Documents & Technical Information] from this screen.

## 5.4 Path Calendar Screen

#### (1) Moving to the [Path Calendar] Screen

Click on [Path Calendar] on the [Documents & Information] Screen (see section 5.1) to move to the [Path Calendar] Screen (new screen).



## (2) [Path Calendar] Screen

Displays the observation paths for GOSAT products ((1) below). Click on any of the links to download the GOSAT path calendar.

	(2)	Close
GOSAT Data Archive Servic This site is operated by GOSAT Pro National Institute for Environmenta	oject of	
Documents & Technical Information		
Please select the 'Title' which you would like to display.		
Note: Documents with the asterisk (*) are provided only in English.		
Documents (Product Descriptions)		
Technical Information		
▼Path Calendar		(1)
The explanation of the 'GOSAT Path Calendar' is here.		(1)
GOSAT Path Calendar (2016) (English FOF, Japanese FOF)		
GOSAT Path Calendar (2015) (English 🕬 , Japanese 🅬 )		
GOSAT Path Calendar (2014) (English FOR , Japanese FOR )		
GOSAT Path Calendar (2013) (English FOF, Japanese FOF)		
GOSAT Path Calendar (2012) (English FOR , Japanese FOR )		
GOSAT Path Calendar (2011) (English FOF , Japanese FOF)		
GOSAT Path Calendar (2010) (English ECE, Japanese ECE)		
GOSAT Path Calendar (2009) (English FOF, Japanese FOF)		
		Top of Page
The GOSAT standard mesh point (SMP)		
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.		

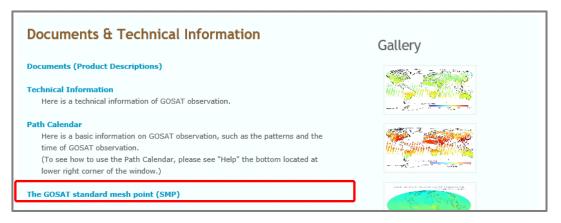
- (1) GOSAT Path : The link to the GOSAT path calendars (PDF files). calendar
- (2) [Close] Link : The link for closing the [Path Calendar] Screen.

<u>Information</u>: It is also possible to display the [Technical Information], [Path Calendar] and [GOSAT Standard Mesh Point] displayed in the list of [Documents & Technical Information] from this screen.

### 5.5 GOSAT Standard Mesh Point Information Screen

(1) Moving to the [GOSAT Standard Mesh Point Information] Screen

Click on [The GOSAT standard mesh point (SMP)] on the [Documents & Information] Screen (see section 5.1) to move to the [GOSAT Standard Mesh Point Information] Screen (new screen).



#### (2) [GOSAT Standard Mesh Point Information] Screen

Displays information related to the GOSAT standard mesh points ((1) below). Click on any of the links to download the relevant file.

COSAT Close
GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
Documents & Technical Information
Please select the 'Title' which you would like to display.
Note: Documents with the asterisk (*) are provided only in English.
Documents (Product Descriptions)
Technical Information
▶Path Calendar
The GOSAT standard mesh point (SMP) (1) After the pointing mirror mechanism of TANSO-FTS was switched to its backup system on January 28, 2015. Mesh Pattern 3 in the GOSAT Standard Mesh Point (SMP) is selected for the standard mesh observation mode. The coordinate data of SMP are available from the following link. GOSAT SMP (zip file: 4.25MB) (21) - 2015/01/28 03:12 (UT) - : Pattern 3 - 2014/09/11 04:10 (UT) - 2014/12/14 22:50 (UT) : Pattern 1 - 2014/05/30 23:00 - 2014/09/11 04:10 (UT) : Pattern 1 or 3
- 2010/08/01 - 2014/05/30 23:00 (UT) : Pattern 3 - 2009/06/26 3:00 (UT) - 2010/08/01 : Pattern 5 (new) Old 5 points observation pattarn of GOSAT SMP (zip file: 584KB)
Top of Page
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.

- (1) GOSAT Standard : Displays GOSAT standard mesh point information.
   Mesh
   Point
- (2) [Close] Link : The link for closing the [GOSAT Standard Mesh Point] Screen.

<u>Information</u>: It is also possible to display the [Technical Information], [Path Calendar] and [GOSAT Standard Mesh Point] displayed in the list of [Documents & Technical Information] from this screen.

# 6 Procedures for Browsing GOSAT Product Images

This section explains the procedure for browsing GOSAT product image data.

## 6.1 Gallery Screen

#### (1) Moving to the [Gallery] Screen

Click on [Gallery] on the [GDAS Top] Screen (see section 4.1) to move to the [Gallery] Screen.



# (2) [Gallery] Screen

Displays a list of the GOSAT product gallery. Click on any of the products to move to the relevant gallery screen.

This site is operated	e Service (GDAS) by GOSAT Project of r Environmental Studies (NIES).
Gallery	Submenu
FTS SWIR L2	How to use this website Data Users Handbook
Monthly Global Map of the CO2 column-averaged volume mixing ratios (1)	Point of Contact / FAQ Tools
Monthly Global Map of the CH4 column-averaged volume mixing ratios (2)	Site Policy
Monthly Global Map of the H2O column-averaged volume mixing ratios (3)	Links GOSAT Project
FTS SWIR L3	GOSAT Project GOSAT-2 Project National Institute for Environmental
FTS SWIR L3 XC02 (4)	Studies (NIES) Japan Aerospace Exploration Agency (JAXA)
FTS SWIR L3 XCH4 (5)	Ministry of the Environment (MOE)

GOSAT Data Archive Service Operation Manual



(1)	Monthly Global Map of the	:	The link to the [Monthly Global Map of the
	CO2 column-averaged		CO2 column-averaged volume mixing ratios]
	volume mixing ratios Link		Screen.
(2)	Monthly Global Map of the	:	The link to the [Monthly Global Map of the
	CH4 column-averaged		CH4 column-averaged volume mixing ratios]
	volume mixing ratios Link		Screen.
(3)	Monthly Global Map of the	:	The link to the [Monthly Global Map of the
	H2O column-averaged		H2O column-averaged volume mixing ratios]
	volume mixing ratios Link		Screen.
(4)	FTS SWIR L3 XCO2 Link	:	The link to the [FTS SWIR L3 XCO2] Screen.
(5)	FTS SWIR L3 XCH4 Link	:	The link to the [FTS SWIR L3 XCH4] Screen.
(6)	Global Gas Flux Maps Link	:	The link to the [Global Gas Flux Maps] Screen.
(7)	Global Gas Flux Maps	:	The link to the [Global Gas Flux Maps (View
	(View Format) Link		Format)] Screen.
(8)	Gas Flux Time Series Link	:	The link to the [Gas Flux Time Series] Screen.

(9)	Global Gas Concentration	:	The link to the [Global Gas Concentration
	Maps Link		Maps] Screen.
(10)	Global Gas Concentration	:	The link to the [Global Gas Concentration
	Maps (View Format) Link		Maps (View Format)] Screen.
(11)	Gas Concentration Time	:	The link to the [Gas Concentration Time
	Series Link		Series] Screen.
(12)	Global Gas Concentration	:	The link to the [Global Gas Concentration
	Animations Link		Animations] Screen.
(13)	CAI L1B+ Browse Image	:	The link to the [CAI L1B+ Browse Image
	Link		Calendar] Screen.
(14)	Images of the Earth	:	The link to the [Images of the Earth captured
	captured by "IBUKI" Link		by "IBUKI"] Screen.
(15)	Global NDVI Map Link	:	The link to the [Global NDVI Map] Screen.
(16)	Browse images of the global	:	The link to the [Browse images of the global
	radiance distribution Link		radiance distribution] Screen.

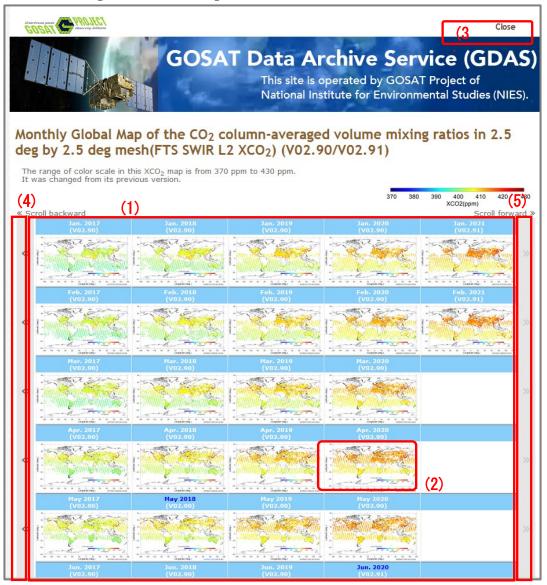
# 6.2 Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratios Screen

(1) Moving to the [Monthly Global Map of the CO2 column-averaged volume mixing ratios] Screen

Click on [Monthly Global Map of the CO2 column-averaged volume mixing ratios] on the [Gallery] Screen (see section 6.1) to move to the [Monthly Global Map of the CO2 column-averaged volume mixing ratios] Screen (new screen).

FTS SWIR L2	Links
Monthly Global Map of the CO2 column-averaged volume mixing ratios	GOSAT Project GOSAT-2 Project
Monthly Global Map of the CH4 column-averaged volume mixing ratios	National Institute for Environmental Studies (NIES)
Monthly Global Map of the H2O column-averaged volume mixing ratios	Japan Aerospace Exploration Agency (JAXA)
social as Montally Global Map of the N2O column-averaged volume mixing ratios	Ministry of the Environment (MOE)

(2) [Monthly Global Map of the CO2 column-averaged volume mixing ratios] Screen Displays a list of thumbnail images for monthly global maps of L2 CO2 column-averaged volume mixing ratios ((1) below). Click on each individual image ((2) below) to display them on an enlarged [Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratio] Screen (new screen).



- (1) List of Average : Displays a list of average monthly volume mixing ratios.
   Monthly Volume Mixing Ratios
- (2) Thumbnail Images : Link to the enlarged [Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratio] Screen for the relevant year/month.

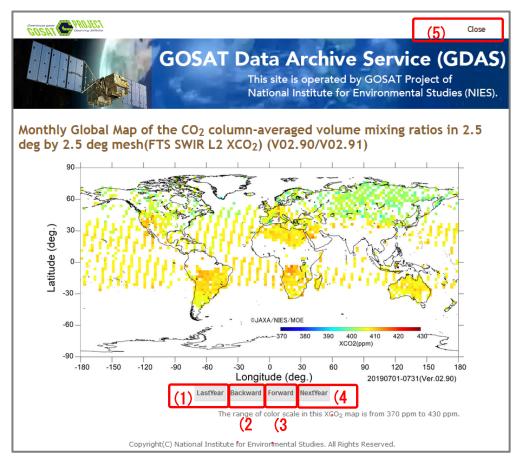
GOSAT Data Archive Service Operation Manual

(3)	[Close] Link	:	The link for closing the [Monthly Global Map of the CO2
			column-averaged volume mixing ratios] Screen.
(4)	[<<] Button	:	Button for scrolling to previous year's list.
(5)	[>>] Button	:	Button for scrolling to subsequent year's list.

<u>Information</u>: Dates highlighted in blue indicate that data for a full month is not available.

(3) Enlarged [Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratio] Screen

Displays an enlarged image of the monthly global map of L2 CO2 column-averaged volume mixing ratios. Click on [Backward] ((2) below) or [Forward] ((3) below) to display the previous or subsequent image.



- (1) [LastYear] Button : Button for displaying the previous year's image.
- (2) [Backward] Button : Button for displaying the previous month's image.

- (3) [Forward] Button : Button for displaying the subsequent month's image.
- (4) [NextYear] Button : Button for displaying the subsequent year's image.
- (5) [Close] Link
   : The link for closing the Enlarged [Monthly Global Map of L2 CO2 Column-Averaged Volume Mixing Ratio] Screen.

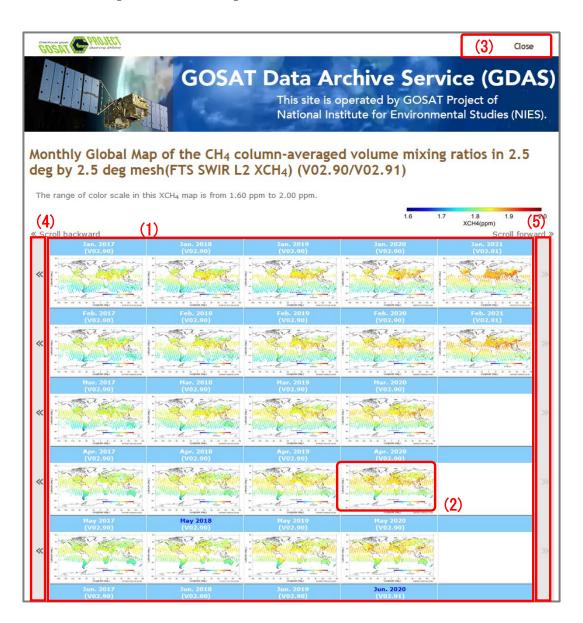
# 6.3 Monthly Global Map of L2 CH4 Column-Averaged Volume Mixing Ratios Screen

(1) Moving to the [Monthly Global Map of the CH4 column-averaged volume mixing ratios] Screen

Click on [Monthly Global Map of the CH4 column-averaged volume mixing ratios] on the [Gallery] Screen (see section 6.1) to move to the [Monthly Global Map of the CH4 column-averaged volume mixing ratios] Screen (new screen).



(2) [Monthly Global Map of the CH4 column-averaged volume mixing ratios] Screen Displays a list of thumbnail images for monthly global maps of L2 CH4 column-averaged volume mixing ratios ((1) below). Click on each individual image ((2) below) to display them on an enlarged [Monthly Global Map of L2 CH4 Column-Averaged Volume Mixing Ratio] Screen (new screen).



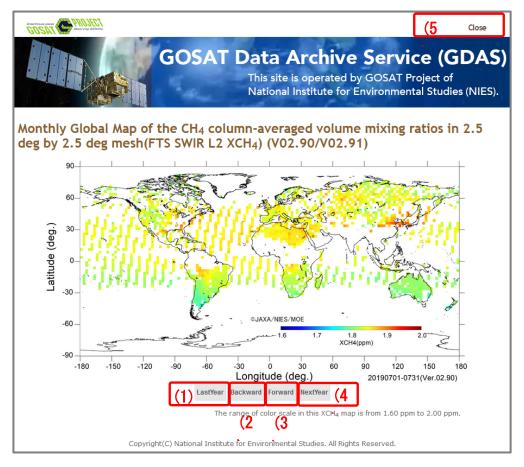
(1) List of Average : Displays a list of average monthly volume mixing ratios.
 Monthly Volume Mixing Ratios

(2)	Thumbnail Images	:	Link to the enlarged [Monthly Global Map of L2 CH4
			Column-Averaged Volume Mixing Ratio] Screen for the
			relevant year/month.
(3)	[Close] Link	:	The link for closing the [Monthly Global Map of the ${\rm CH4}$
			column-averaged volume mixing ratios] Screen.
(4)	[<<] Button	:	Button for scrolling to previous year's list.
(5)	[>>] Button	:	Button for scrolling to subsequent year's list.

<u>Information</u>: Dates highlighted in blue indicate that data for a full month is not available.

(3) Enlarged [Monthly Global Map of L2 CH4 Column-Averaged Volume Mixing Ratio] Screen

Displays an enlarged image of the monthly global map of L2 CH4 column-averaged volume mixing ratios. Click on [Backward] ((2) below) or [Forward] ((3) below) to display the previous or subsequent image.



- (1) [LastYear] Button
- : Button for displaying the previous year's image.

Button for displaying the previous month's image.

: Button for displaying the subsequent year's image.

- (2) [Backward] Button :
- (3) [Forward] Button : Button for displaying the subsequent month's image.
- (4) [NextYear] Button
- (5) [Close] Link
- : The link for closing the Enlarged [Monthly Global Map of the CH4 column-averaged volume mixing ratios] Screen.

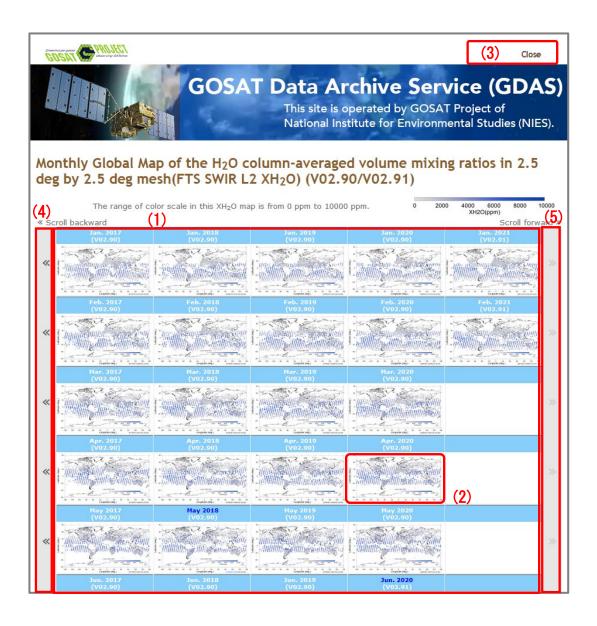
# 6.4 Monthly Global Map of L2 H2O Column-Averaged Volume Mixing Ratios Screen

(1) Moving to the [Monthly Global Map of the H2O column-averaged volume mixing ratios] Screen

Click on [Monthly Global Map of the H2O column-averaged volume mixing ratios] on the [Gallery] Screen (see section 6.1) to move to the [Monthly Global Map of the H2O column-averaged volume mixing ratios] Screen (new screen).

FTS SWIR L2	Links
Monthly Global Map of the CO2 column-averaged volume mixing ratios	GOSAT Project GOSAT-2 Project
Monthly Global Map of the CH4 column-averaged volume mixing ratios	National Institute for Environmental Studies (NIES)
Monthly Global Map of the H2O column-averaged volume mixing ratios	Japan Aerospace Exploration Agency (JAXA)
and the start of the second se	Ministry of the Environment (MOE)

(2) [Monthly Global Map of the H2O column-averaged volume mixing ratios] Screen Displays a list of thumbnail images for monthly global maps of L2 H2O column-averaged volume mixing ratios ((1) below). Click on each individual image ((2) below) to display them on an enlarged [Monthly Global Map of L2 H2O Column-Averaged Volume Mixing Ratio] Screen (new screen).



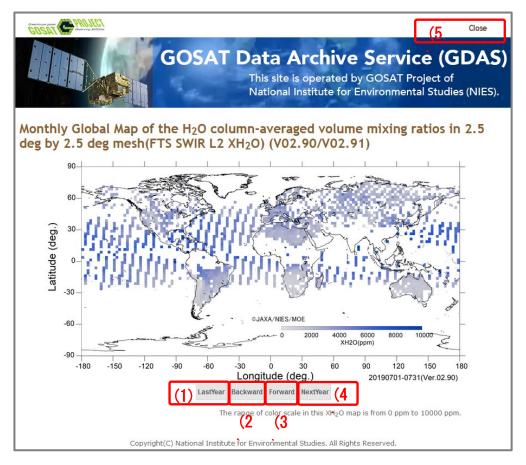
(1) List of Average : Displays a list of average monthly volume mixing ratios.
 Monthly Volume Mixing Ratios

(2)	Thumbnail Images	:	Link to the enlarged [Monthly Global Map of L2 H2O
			Column-Averaged Volume Mixing Ratio] Screen for the
			relevant year/month.
(3)	[Close] Link	:	The link for closing the [Monthly Global Map of the H2O
			column-averaged volume mixing ratios] Screen.
(4)	[<<] Button	:	Button for scrolling to previous year's list.
(5)	[>>] Button	:	Button for scrolling to subsequent year's list.

<u>Information</u>: Dates highlighted in blue indicate that data for a full month is not available.

(3) Enlarged [Monthly Global Map of L2 H2O Column-Averaged Volume Mixing Ratio] Screen

Displays an enlarged image of the monthly global map of L2 H2O column-averaged volume mixing ratios. Click on [Backward] ((2) below) or [Forward] ((3) below) to display the previous or subsequent image.



- (1) [LastYear] Button
  - : Button for displaying the previous year's image.
- (2) [Backward] Button : Button for displaying the previous month's image. :
- (3)[Forward] Button
- (4) [NextYear] Button
- (5)[Close] Link
- : The link for closing the Enlarged [Monthly Global Map of the H2O column-averaged volume mixing ratios] Screen.

Button for displaying the subsequent month's image.

: Button for displaying the subsequent year's image.

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# 6.5 FTS SWIR L3 XCO2 Screen

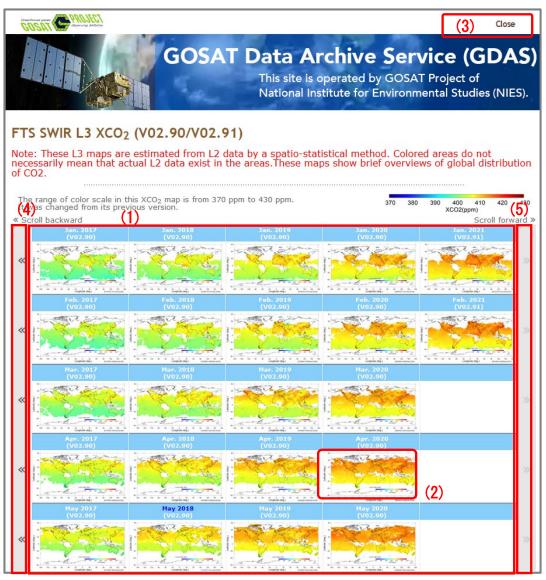
(1) Moving to the [FTS SWIR L3 XCO2] Screen

Click on [FTS SWIR L3 XCO2] on the [Gallery] Screen (see section 6.1) to move to the [FTS SWIR L3 XCO2] Screen (new screen).

FTS SWIR L3	
FTS SWIR L3 XCO2	
FTS SWIR L3 XCH4	

#### (2) [FTS SWIR L3 XCO2] Screen

Displays a list of thumbnail images for global maps of FTS SWIR L3 CO2 column-averaged volume mixing ratios ((1) below). Click on each individual image ((2) below) to display them on an enlarged [FTS SWIR L3 XCO2] Screen (new screen).



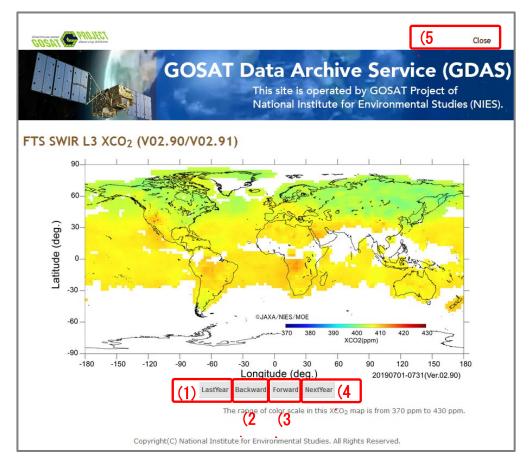
(1)	List of Global	:	Displays a list of global column-averaged volume
	Column-Averaged		mixing ratios.
	Volume Mixing Ratios		
(2)	Thumbnail Images	:	Link to the enlarged [FTS SWIR L3 XCO2] Screen for
			the relevant year/month.
(3)	[Close] Link	:	The link for closing the [FTS SWIR L3 XCO2] Screen.
(4)	[<<] Button	:	Button for scrolling to previous year's list.

#### (5) [>>] Button : Button for scrolling to subsequent year's list.

<u>Information</u>: Dates highlighted in blue indicate that data for a full month is not available.

### (3) Enlarged [FTS SWIR L3 XCO2] Screen

Displays an enlarged image of FTS SWIR L3 XCO2. Click on [Backward] ((2) below) or [Forward] ((3) below) to display the previous or subsequent image.



- (1) [LastYear] Button : Button for displaying the previous year's image.
  - [Backward] Button : Button for displaying the previous month's image.
  - [Forward] Button : Button for displaying the subsequent month's image.
- (4) [NextYear] Button
- (5) [Close] Link

(2)

(3)

- $\div$  Button for displaying the subsequent year's image.
- : The link for closing the Enlarged [FTS SWIR L3 XCO2] Screen.

GOSAT Data Archive Service Operation Manual

# 6.6 FTS SWIR L3 XCH4 Screen

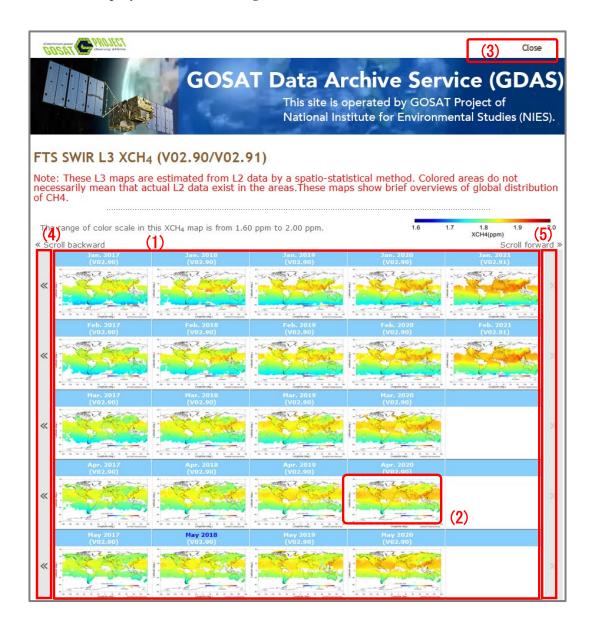
(1) Moving to the [FTS SWIR L3 XCH4] Screen

Click on [FTS SWIR L3 XCH4] on the [Gallery] Screen (see section 6.1) to move to the [FTS SWIR L3 XCH4] Screen (new screen).

FTS SWIR L3	
FTS SWIR L3 XCO2	
FTS SWIR L3 XCH4	

#### (2) [FTS SWIR L3 XCH4] Screen

Displays a list of thumbnail images for global maps of FTS SWIR L3 CH4 column-averaged volume mixing ratios ((1) below). Click on each individual image ((2) below) to display them on an enlarged [FTS SWIR L3 XCH4] Screen (new screen).



(1)	List of Global Column	:	Displays a list of global column-averaged volume
	Averaged Volume		mixing ratios.
	Mixing Ratios		
(2)	Thumbnail Images	:	Link to the enlarged [FTS SWIR L3 XCH4] Screen for
			the relevant year/month.

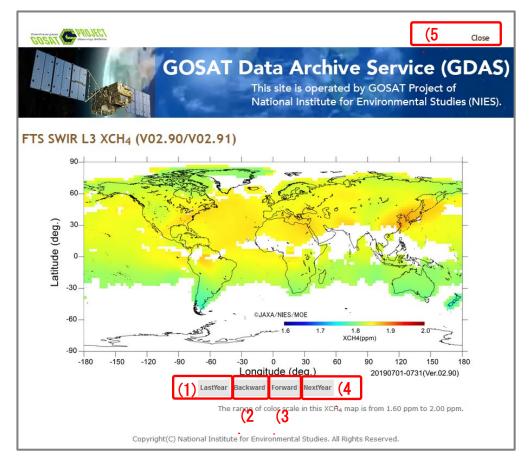
(3) [Close] Link : The link for closing the [FTS SWIR L3 XCH4] Screen.

(4)	[<<] Button	:	Button for scrolling to previous year's list.
(5)	[>>] Button	:	Button for scrolling to subsequent year's list.

<u>Information</u>: Dates highlighted in blue indicate that data for a full month is not available.

#### (3) Enlarged [FTS SWIR L3 XCH4] Screen

Displays an enlarged image of FTS SWIR L3 XCH4. Click on [Backward] ((2) below) or [Forward] ((3) below) to display the previous or subsequent image.



- (1) [LastYear] Button : Button for displaying the previous year's image.
  - [Backward] Button : Button for displaying the previous month's image.
  - [Forward] Button : Button for displaying the subsequent month's image.
- (4) [NextYear] Button
- (5) [Close] Link

(2)

(3)

- : Button for displaying the subsequent year's image.
- : The link for closing the Enlarged [FTS SWIR L3 XCH4] Screen.

## 6.7 Global Gas Flux Maps Screen

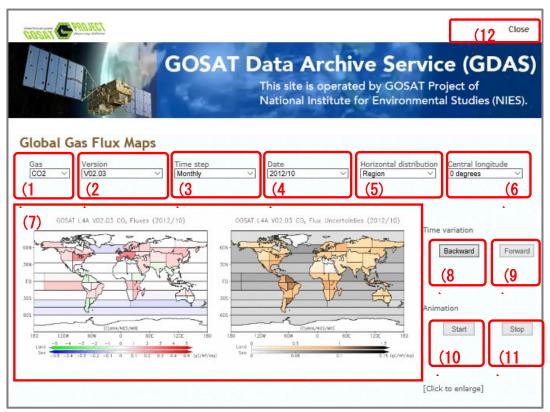
(1) Moving to the [Global Gas Flux Maps (L4A)] Screen

Click on [Global Gas Flux Maps (L4A)] on the [Gallery] Screen (see section 6.1) to move to the [Global Gas Flux Maps (L4A)] Screen (new screen).

L4A	
Global Gas Flux Maps (L4A)	
Global Gas Flux Maps (View Format) (L4A)	
Gas Flux Time Series (L4A)	

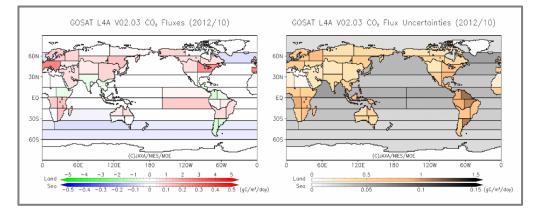
### (2) [Global Gas Flux Maps (L4A)] Screen

Select the required values from the [Gas], [Version], [Time Step], [Date], [Horizontal Distribution] and [Central Longitude] pull-down menus ((1) to (6) below) to display a global gas flux map created in accordance with the selected conditions. Click on [Backward] ((8) below) or [Forward] ((9) below) to display the previous or subsequent image.



(1)	[Gas] Pull-down Menu	:	Pull-down menu for selecting the [Gas].
(2)	[Version] Pull-down	:	Pull-down menu for selecting the [Version].
	Menu		
(3)	[Time step] Pull-down	:	Pull-down menu for selecting the [Time Step].
	Menu		(Fixed at [monthly])
(4)	[Date] Pull-down Menu	:	Pull-down menu for selecting the year/month.
(5)	[Horizontal	:	Pull-down menu for selecting the [Horizontal
	distribution]		Distribution]. (Fixed at [region])
	Pull-down Menu		
(6)	[Central longitude]	:	Pull-down menu for selecting the [Central
	Pull-down Menu		longitude].
(7)	Main Screen	:	Displays the images selected with conditions (1)
			through (6). Click on the images to display them on
			enlarged screens (*).
(8)	[Backward] Button	:	Button for displaying the previous month's image.
(9)	[Forward] Button	:	Button for displaying the subsequent month's
			image.
(10)	[Start] Button	:	Button for starting automatic playback of the
			image.
(11)	[Stop] Button	:	Button for halting automatic playback of the
			image.
(12)	[Close] Link	:	The link for closing the [Global Gas Flux Maps
			(L4A)] Screen.

\* Examples of enlarged images



# 6.8 Global Gas Flux Maps (View Format) Screen

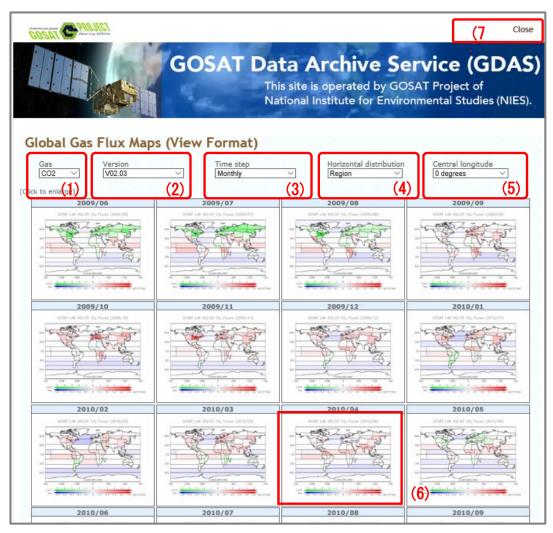
(1) Moving to the [Global Gas Flux Maps (View Format) (L4A)] Screen

Click on [Global Gas Flux Maps (View Format) (L4A)] on the [Gallery] Screen (see section 6.1) to move to the [Global Gas Flux Maps (View Format) (L4A)] Screen (new screen).

L4A	
Global Gas Flux Maps (L4A)	
Global Gas Flux Maps (View Format) (L4A)	
Gas Flux Time Series (L4A)	

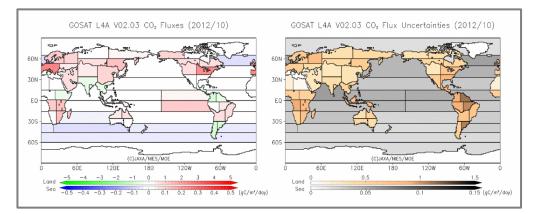
#### (2) [Global Gas Flux Maps (View Format) (L4A)] Screen

Select the required values from the [Gas], [Version], [Time Step], [Horizontal Distribution] and [Central Longitude] pull-down menus ((1) to (5) below) to display a list of global gas flux maps created in accordance with the selected conditions. Click on each individual image ((6) below) to display them on an enlarged [Global Gas Flux Map] Screen (new screen).



- (1) [Gas] Pull-down Menu
- (2) [Version] Pull-down Menu
- (3) [Time step] Pull-down Menu
- (4) [Horizontal distribution]Pull-down Menu
- : Pull-down menu for selecting the [Gas].
- : Pull-down menu for selecting the [Version].
- : Pull-down menu for selecting the [Time Step]. (Fixed at [monthly])
- : Pull-down menu for selecting the [Horizontal Distribution]. (Fixed at [region])

- (5) [Central longitude] : Pull-down menu for selecting the [Central longitude].
  (6) List of Images : Displays the images selected with conditions (1) through (5). Click on the images to display them on enlarged screens (\*).
  (7) [Close] Link : The link for closing the [Global Gas Flux Maps (View Format) (L4A)] Screen.
- \* Examples of enlarged images



## 6.9 Gas Flux Time Series Screen

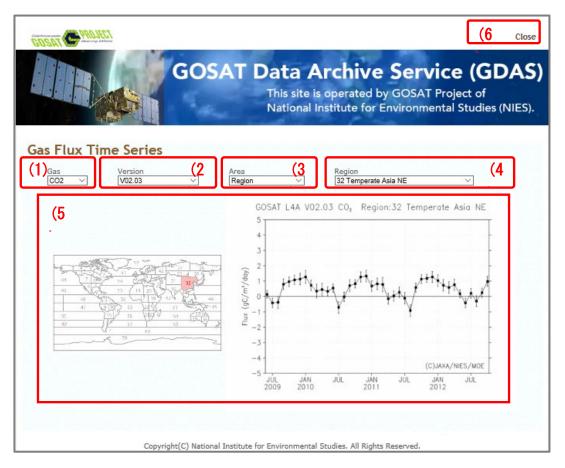
(1) Moving to the [Gas Flux Time Series (L4A)] Screen

Click on [Gas Flux Time Series (L4A)] on the [Gallery] Screen (see section 6.1) to move to the [Gas Flux Time Series (L4A)] Screen (new screen).



### (2) [Gas Flux Time Series (L4A)] Screen

Select the required values from the [Gas], [Version], [Area] and [Region] pull-down menus ((1) to (4) below) to display a gas flux time series plot created in accordance with the selected conditions ((5) below).



(1)	[Gas] Pull-down Menu	:	Pull-down menu for selecting the [Gas].
(2)	[Version] Pull-down Menu	:	Pull-down menu for selecting the [Version].
(3)	[Area] Pull-down Menu	:	Pull-down menu for selecting the [Area]. (Fixed
			at [region]).
(4)	[Region] Pull-down Menu	:	The pull-down menu for selecting the [Region].
(5)	Main Screen	:	Displays the images selected with conditions (1)
			through (4).
(6)	[Close] Link	:	The link for closing the [Gas Flux Time Series
			(L4A)] Screen.

**Information:** Consists of 64 carbon dioxide regions and 43 methane gas regions.

# 6.10 Global Gas Concentration Maps Screen

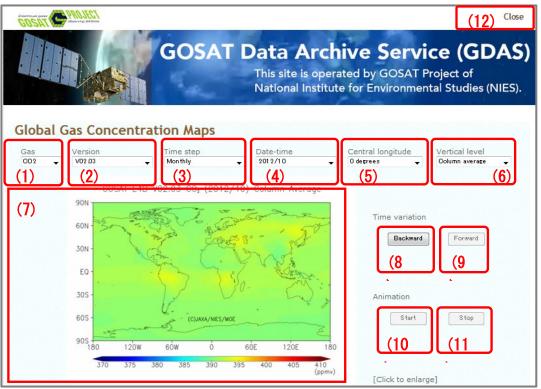
(1) Moving to the [Global Gas Concentration Maps (L4B)] Screen

Click on [Global Gas Concentration Maps (L4B)] on the [Gallery] Screen (see section 6.1) to move to the [Global Gas Concentration Maps (L4B)] Screen (new screen).

L4B	
Global Gas Concentration Maps (L4B)	
Global Gas Concentration Maps (View Format) (L4B)	
Gas Concentration Time Series (L4B)	
Global Gas Concentration Animations (L4B)	

#### (2) [Global Gas Concentration Maps (L4B)] Screen

Select the required values from the [Gas], [Version], [Time Step], [Date-time], [Central Longitude] and [Vertical level] pull-down menus ((1) to (6) below) to display a global gas concentration map created in accordance with the selected conditions. Click on [Backward] ((8) below) or [Forward] ((9) below) to display the previous or subsequent image. Click on an image to display it on an enlarged [Global Gas Concentration Map] Screen (new screen).

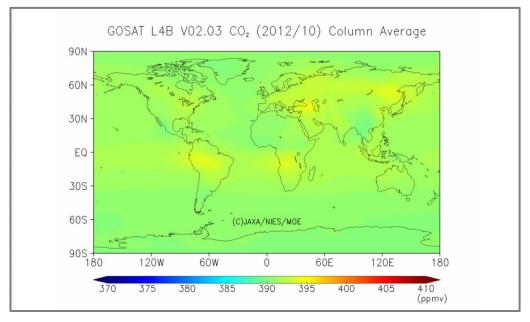


(1)	[Gas] Pull-down Menu	:	Pull-down menu for selecting the [Gas].
(2)	[Version] Pull-down Menu	:	Pull-down menu for selecting the [Version].
(3)	[Time step] Pull-down	:	Pull-down menu for selecting the [Time Step].
	Menu		
(4)	[Date-time] Pull-down	:	Pull-down menu for selecting the [Date-time].
	Menu		
(5)	[Central longitude]	:	Pull-down menu for selecting the [Central
	Pull-down Menu		longitude].
(6)	[Vertical level] Pull-down	:	Pull-down menu for selecting the [Vertical level].
	Menu		

(7)	Main Screen	:	Displays the images selected with conditions (1) through (6). Click on the images to display them
			on enlarged screens (*).
(8)	[Backward] Button	:	Button for displaying the previous month's image.
(9)	[Forward] Button	:	Button for displaying the subsequent month's image.
(10)	[Start] Button	:	Button for starting automatic playback of the image.
(11)	[Stop] Button	:	Button for halting automatic playback of the image.
(12)	[Close] Link	:	The link for closing the [Global Gas Concentration Maps (L4B)] Screen.

<u>Information</u>: Consists of three types of time step (6-hours/Daily Average/Monthly Average).

## \* Example of an enlarged image



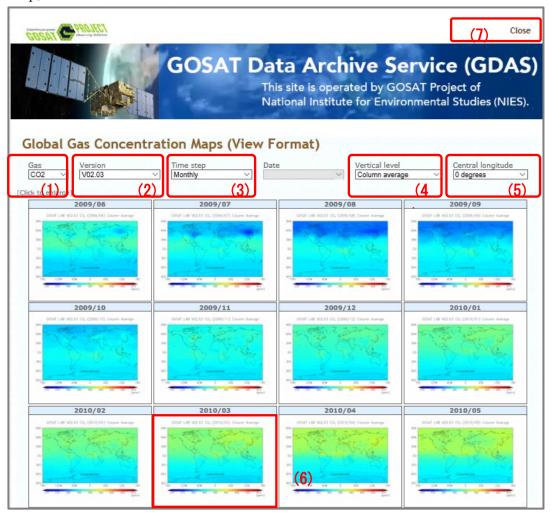
# 6.11 Global Gas Concentration Maps (View Format) Screen

(1) Moving to the [Global Gas Concentration Maps (View Format) (L4B)] Screen Click on [Global Gas Concentration Maps (View Format) (L4B)] on the [Gallery] Screen (see section 6.1) to move to the [Global Gas Concentration Maps (View Format) (L4B)] Screen (new screen).

L4B	
	Global Gas Concentration Maps (L4B)
	Global Gas Concentration Maps (View Format) (L4B)
m	Gas Concentration Time Series (L4B)
	Global Gas Concentration Animations (L4B)

#### (2) [Global Gas Concentration Maps (View Format) (L4B)] Screen

Select the required values from the [Gas], [Version], [Time Step], [Vertical Level] and [Central Longitude] pull-down menus ((1) to (5) below) to display a list of global gas concentration maps created in accordance with the selected conditions. Click on each individual image ((6) below) to display them on an enlarged [Global Gas Concentration Map] Screen (new screen).

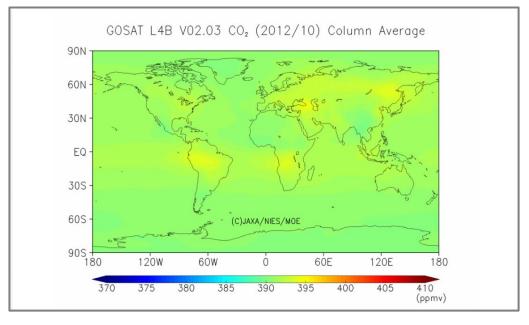


(1)	[Gas] Pull-down Menu	:	Pull-down menu for selecting the [Gas].
(2)	[Version] Pull-down Menu	:	Pull-down menu for selecting the [Version].
(3)	[Time step] Pull-down	:	Pull-down menu for selecting the [Time Step].
	Menu		
(4)	[Vertical level] Pull-down	:	Pull-down menu for selecting the [Vertical level].
	Menu		
(5)	[Central longitude]	:	Pull-down menu for selecting the [Central
	Pull-down Menu		longitude].

(6)	List of Images	:	Displays the images selected with conditions (1)
			through (5). Click on the images to display them
			on enlarged screens (*).
(7)	[Close] Link	:	The link for closing the [Global Gas
			Concentration Maps (View Format) (L4B)]
			Screen.

<u>Information</u>: Consists of three types of time step (6-hours/Daily Average/Monthly Average).

## \* Example of an enlarged image



# 6.12 Gas Concentration Time Series Screen

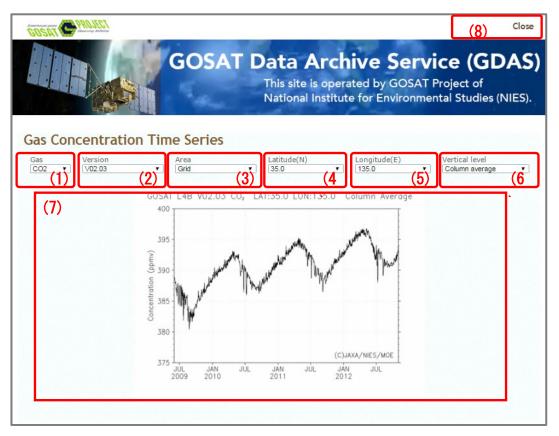
(1) Moving to the [Gas Concentration Time Series (L4B)] Screen

Click on [Gas Concentration Time Series (L4B)] on the [Gallery] Screen (see section 6.1) to move to the [Gas Concentration Time Series (L4B)] Screen (new screen).

L4B	
Global Gas Concentration Maps (L4B)	
Global Gas Concentration Maps (View Format) (L4B)	
Gas Concentration Time Series (L4B)	
Global Gas Concentration Animations (L4B)	

## (2) [Gas Concentration Time Series (L4B)] Screen

Select the required values from the [Gas], [Version], [Area], [Latitude (N)], [Longitude (E)], and [Vertical level] pull-down menus ((1) to (6) below) to display a gas concentration time series plot created in accordance with the selected conditions ((7) below).



(1)	[Gas] Pull-down	:	Pull-down menu for selecting the [Gas].
	Menu		
(2)	[Version] Pull-down	:	Pull-down menu for selecting the [Version].
	Menu		
(3)	[Area] Pull-down	:	Pull-down menu for selecting the [Area].
	Menu		
(4)	[Latitude] Pull-down	:	Pull-down menu for selecting the [Latitude $(N)$ ] (per
	Menu		2.5 degrees).
(5)	[Longitude] Pull-down	:	Pull-down menu for selecting the [Longitude (E)]
	Menu		(per 2.5 degrees).
(6)	[Vertical level]	:	Pull-down menu for selecting the [Vertical level].
	Pull-down Menu		
(7)	Main Screen	:	Displays the images selected with conditions (1)
			through (6).
(8)	[Close] Link	:	The link for closing the [Gas Concentration Time
			Series (L4B)] Screen.
_			

<u>Information</u>: Consist of two locations (lattice point/global average). The [North Latitude] and [East Latitude] cannot be selected if global average has been selected.

## 6.13 Global Gas Concentration Animations Screen

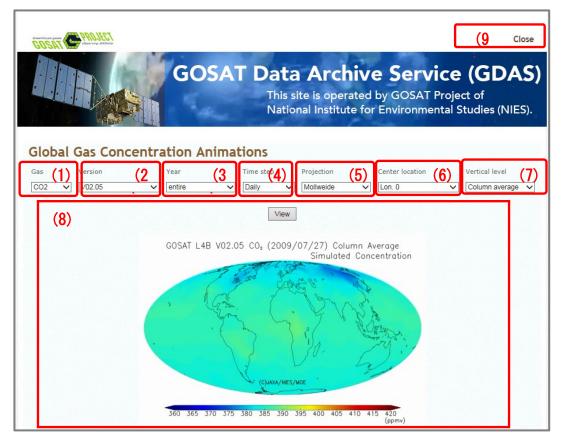
(1) Moving to the [Global Gas Concentration Animations (L4B)] Screen

Click on [Global Gas Concentration Animations (L4B)] on the [Gallery] Screen (see section 6.1) to move to the [Global Gas Concentration Animations (L4B)] Screen (new screen).



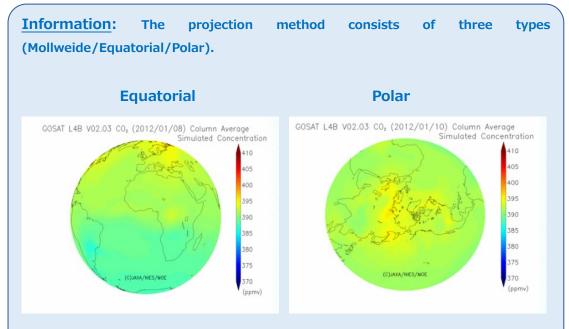
#### (2) [Global Gas Concentration Animations (L4B)] Screen

Select the value for [Gas], [Version], [Year], [Time Step], [Projection], [Center Location], and [Vertical level] ((1) to (7) below) from the pull-down menu and then click on [View] to display the global gas concentration animation created in accordance with the selected conditions ((8) below).



(1)	[Gas] Pull-down Menu	:	Pull-down menu for selecting the [Gas].
(2)	[Version] Pull-down Menu	:	Pull-down menu for selecting the [Version].
(3)	[Year] Pull-down Menu	:	Pull-down menu for selecting the [Year].
(4)	[Time step] Pull-down	:	Pull-down menu for selecting the [Time Step].
	Menu		
(5)	[Projection] Pull-down	:	Pull-down menu for selecting the [Projection].
	Menu		
(6)	[Center Location]	:	Pull-down menu for selecting the [Center
	Pull-down Menu		Location].
(7)	[Vertical level] Pull-down	:	Pull-down menu for selecting the [Vertical level].
	Menu		

(8) [View] Button
(9) [Close] Link
(9) [Close] Link
(1) through (7).
(2) The link for closing the [Global Gas Concentration Animations (L4B)] Screen.



[Central Locations] differ in accordance with the projection method. Consists of two types of central location for the [Mollweide] projection method (0. longitude/180. longitude).

Consists of four types of central location for the [Equatorial] projection method (0. longitude/180. longitude / 90. east longitude / 90. west longitude).

Consists of two types of central location for the [Polar] projection method (north pole/south pole).

<u>Information</u>: Consists of two types of time step (6-hours/Daily Average).

## 6.14 CAI L1B+ Browse Image Screen

#### (1) Moving to the [CAI L1B+ Browse Image Calendar] Screen

Click on [CAI L1B+ Browse Image] on the [Gallery] Screen (see section 6.1) to move to the [CAI L1B+ Browse Image Calendar] Screen (new screen).

Gallery	Submenu
CAI L1B+	How to use this website Data Users Handbook
CAI L1B+ Browse Image	Contact us / FAQ Operating Environment POF

(2) [CAI L1B+ Browse Image Calendar] Screen

Select the [Observational Year] ((1) below) from the pull-down menu on the [CAI L1B+ Browse Image Calendar] Screen, and then click on the [Date] ((2) below) to display the [CAI L1B+ Browse Image] Screen for the selected observational date.

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Observ	atio	ona	l ye	ear:	2	010	5		(1)																						
Month																Day															
Jan	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Feb	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	-	-
Mar	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Apr	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-
May	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Jun	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	-
Jul	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Aug	1	2	3	4	5	6	7	8	9							16															31
Sep	1	2	3	4	5	6	7	8	9			12				16								2.	25	26		28		30	-
Oct	1	2		4	5	6	7	8	9	10 10	11	12			15 15		17		19 19		21 21	22 22		24	(2,	26	27	28 28	29 29		31
Dec	1	2		4	5	6	7	8	9							16									25 25		27	28	29		31
Dec	1 ±	<sup>2</sup>	2	- <b>*</b>	2			•	2	10	11	12	13	14	13	10	17	10	19	20	21	22	23	24	23	20	21	20	29	30	31
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	no d	lata																													

GOSAT Data Archive Service Operation Manual

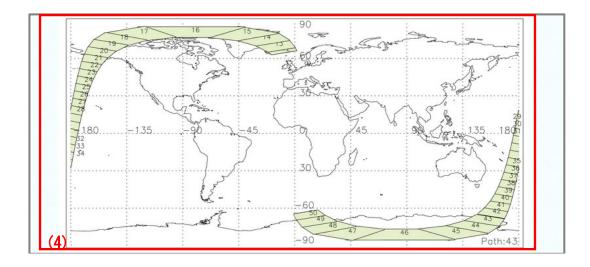
(1)	Observational Year	:	Selects the observation year to be displayed (most
			recent year displayed as the default).
(2)	Date	:	The link to the [CAI L1B+ Browse Image] Screen for
			each observational date.
(3)	[Close] Link	:	The link for closing the [CAI L1B+ Browse Image
			Calendar] Screen.

<u>Information</u>: The background colors on the calendar are color-coded into three groups of path numbers in alignment with the three-day rotation cycle of GOSAT observations.

### (3) [CAI L1B+ Browse Image] Screen

Displays a list of the CAI L1B+ browse images in units of observational date paths. Click on the [Detail] Button ((2) below) to move to the Enlarged [CAI L1B+ Browse Image] Screen (new screen) if necessary.

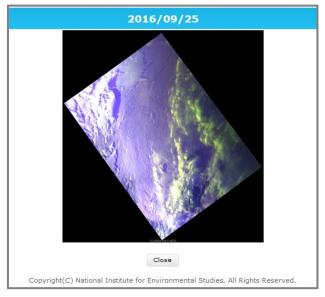
	GOS	Thi	is site is ope	rated by G	OSAT Proje	(5) Close (GDAS) ct of itudies (NIES).
CAI L1B+ Browse Ima	ige Table				(3) Bar	ck to 'Select Calendar
		Path 43	(1)			
1         2           2016/09/25         2016/09/25           00:23         00:25           Path : 43         Path : 43           Frame : 16         Frame : 17	3 2016/09/25 00:26 Path : 43 Frame : 18	4 2016/09/25 00:28 Path : 43 Frame : 19	5 2016/09/25 00:30 Path : 43 Frame : 20	6 2016/09/25 00:31 Path : 43 Frame : 21	7 2016/09/25 00:33 Path : 43 Frame : 22	8 2016/09/25 00:35 Path : 43 Frame : 23
	(CUAXANIE SINCE	IC,JAXA NIES INCE	C.JAXANIE SINCE	(C)JAXA NIE S MOE	(C)JAXA NIES MOE	ICUAXA NIES INCE
Detail (2 Detail	Detail	Detail	Detail	Detail	Detail	Detail 16
2016/09/25 00:36 00:38 Path : 43 Frame : 24 Frame : 25	2016/09/25 00:40 Path : 43 Frame : 26	2016/09/25 00:41 Path : 43 Frame : 27	2016/09/25 00:43 Path : 43 Frame : 28	14 2016/09/25 00:44 Path : 43 Frame : 29	2016/09/25 00:46 Path : 43 Frame : 30	2016/09/25 00:48 Path : 43 Frame : 31
	CUAXA NIES MOE	CUAXANES MOE	(C)JAXA THE S INCE	(C)JAXANES MOC	(C)JAXANIES MOE	ICMAXA NIES INCE
Detail Detail	Detail	Detail	Detail	Detail	Detail	Detail
17         18           2016/09/25         2016/09/25           00:49         00:51           Path : 43         Path : 43           Frame : 32         Frame : 33	19 2016/09/25 00:53 Path : 43 Frame : 34	20 2016/09/25 00:54 Path : 43 Frame : 35	21 2016/09/25 00:56 Path : 43 Frame : 36	22 2016/09/25 00:58 Path : 43 Frame : 37	23 2016/09/25 00:59 Path : 43 Frame : 38	24 2016/09/25 01:01 Path : 43 Frame : 39
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Detail Detail	Detail	Detail 28	Detail 29	Detail 30	Detail 31	Detail 32
2016/09/25         2016/09/25           01:02         01:04           Path : 43         Path : 43           Frame : 40         Frame : 41	2016/09/25 01:06 Path : 43 Frame : 42	2016/09/25 01:07 Path : 43 Frame : 43	2016/09/25 01:09 Path : 43 Frame : 44	2016/09/25 01:11 Path : 43 Frame : 45	2016/09/25 01:12 Path : 43 Frame : 46	2016/09/25 01:14 Path : 43 Frame : 47
	(GJIAXANIESIDDE	CJAXANIESEDE	(C)JAXANIBE/IJOE	(C)JAXAMIES/MOE	(G) AND ATERAKOR	(C)JAXA/NES/MCE
Detail Detail	Detail	Detail	Detail	Detail	Detail	Detail



(1)	Path	:	The path number for displaying a list of thumbnail
			images. (The first path number for the observational
			date will be displayed as the default.)
(2)	[Detail] Button	:	Displays the relevant frame on an enlarged screen.
(3)	[Back to 'Select	:	Link for returning to the [CAI L1B+ Browse Image]
	Calendar'] Link		Screen.
(4)	CAI Observation	:	A chart indicating the maximum CAI observational
	Range		range for the path displayed.
(5)	[Close] Link	:	The link for closing the [CAI L1B+ Browse Image]
			Screen.

(4) Enlarged [CAI L1B+ Browse Image] Screen

Displays the CAI L1B+ browse image as an enlarged image.



# 6.15 Images of the Earth Captured by "IBUKI" Screen

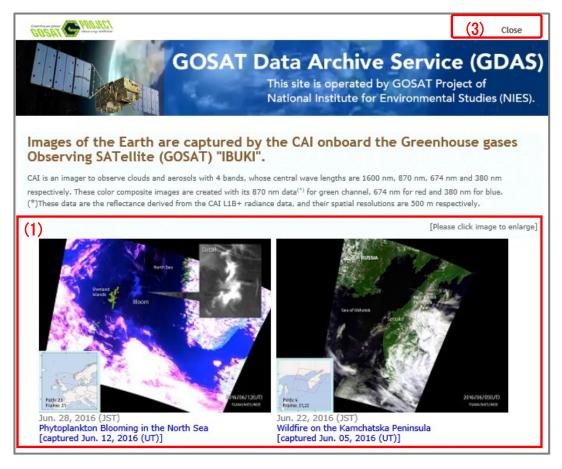
(1) Moving to the [Images of the Earth Captured by "IBUKI"] Screen

Click on [Images of the Earth captured by "IBUKI"] on the [Gallery] Screen (see section 6.1) to move to the [Images of the Earth Captured by "IBUKI"] Screen (new screen).

Gallery	Submenu
CAI L1B+	How to use this website Data Users Handbook
CAI L1B+ Browse Image	Contact us / FAQ
CAI L1B+ Browse Image	Operating Environment POF
	Tools
Images of the Earth captured by "IBUKI"	Site Policy

(2) [Images of the Earth Captured by "IBUKI"] Screen

Displays the most recent images of the earth captured by the "IBUKI" as thumbnail images ((1) below). Click on [Images of the Earth captured in YYYY] (YYYY represents the year) ((2) below) to move to the [Images of the Earth captured in YYYY] Screen (new screen).



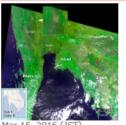


May 12, 2016 (JST) Wildfire in Alberta, Canada [captured May 06, 2016 (UT)]

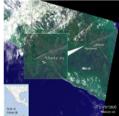




Apr.5, 2016 (JST) Eruption of Pavlof volcano [captured Mar. 29, 2016 (UT)]



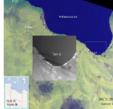
Mar.15, 2016 (JST) Thailand Wildfires [captured Mar. 03, 2016 (UT)1



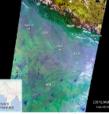
Feb.2, 2016 (JST) Eruption of Popocatepetl volcano [captured Jan. 25, 2016 (UT)]



Mar.4, 2016 (JST) Flooded Mississippi & shrinking lakes [captured Jan. 06, 2016] (UT)]



Jan.13, 2016 (JST) Oil tank fires in Libya [captured Jan. 05, 2016 (UT)]



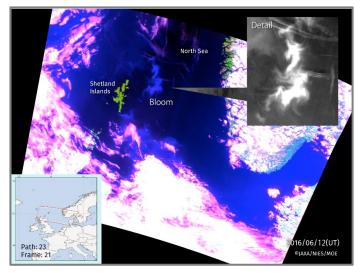
Dec.11, 2015 (JST) Air pollution over India [acquired Dec. 04, 2015 (UTC)]

Note: Dates with gray fonts denote the release dates.

Images of the Earth captured in 2016 (2) Images of the Earth captured in 2015 Images of the Earth captured in 2014 Images of the Earth captured in 2013 Images of the Earth captured in 2011 Images of the Earth captured in 2010 Images of the Earth captured in 2009

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- Captured by "IBUKI"
- (1) Images of the Earth : Displays the most recent 10 images of the earth captured by the "IBUKI." Click on the image to move the enlarged image (\*).
- (2) Images of the Earth : The link to the [Images of the Earth captured in captured in YYYY Link YYYY] Screen (YYYY represents the year).
- (3) [Close] Link
- : The link for closing the [Images of the Earth Captured by "IBUKI"] Screen.



\* Examples of enlarged images

(3) Images of the Earth Captured by "IBUKI" Screen for the relevant observational year

Click on the observational year to display a list of [Images of the Earth Captured by "IBUKI"] thumbnail images. Click on each individual image ((1) below) to display them on an enlarged screeen.



- (1) "IBUKI" : Displays images of the earth captured by "IBUKI" for the relevant observational year. Click on the image to move the enlarged image.
- (2) [Close] Link : The link for closing the [Images of the Earth captured in YYYY] Screen.

# 6.16 Global NDVI Map Screen

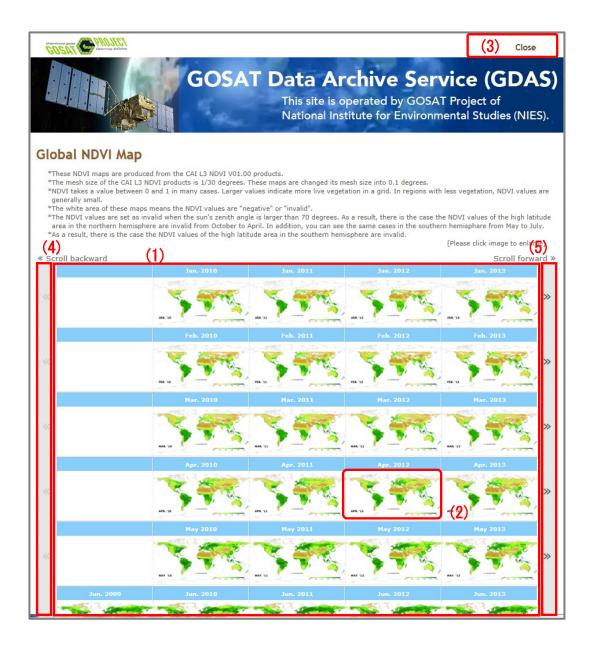
(1) Moving to the [Global NDVI Map] Screen

Click on [Global NDVI Map] on the [Gallery] Screen (see section 6.1) to move to the [Global NDVI Map] Screen (new screen).

CAI L3	
Global NDVI Map	
Browse images of the global radiance distribution	

#### (2) [Global NDVI Map] Screen

Displays a list of thumbnail images for global NDVI maps ((1) below). Click on each individual image ((2) below) to display them on an enlarged [Global NDVI Map] Screen (new screen).

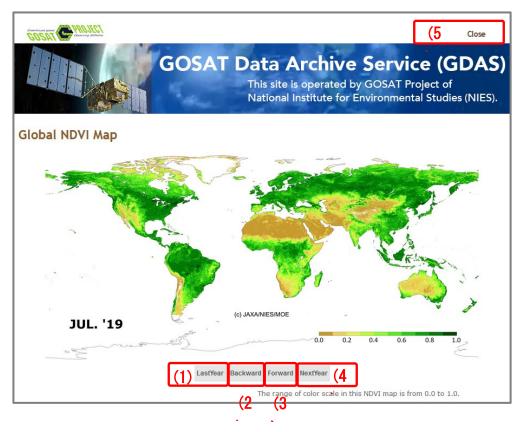


- (2)Thumbnail Images
- (3)[Close] Link
- (1) List of Global NDVI Maps : Displays a list of global NDVI maps.
  - : Link to the enlarged [Global NDVI Map] Screen for the relevant year/month.
  - : The link for closing the [Global NDVI Map] Screen.

(4)	[<<] Button	:	Button for scrolling to previous year's list.
(5)	[>>] Button	:	Button for scrolling to subsequent year's list.

#### (3) Enlarged [Global NDVI Map] Screen

Displays an enlarged image of the Global NDVI Map. Click on [Backward] ((2) below) or [Forward] ((3) below) to display the previous or subsequent image.



- (1)[LastYear] Button : Button for displaying the previous year's image. (2)
  - [Backward] Button : Button for displaying the previous month's image.
  - [Forward] Button : Button for displaying the subsequent month's image.
- (4)[NextYear] Button

(3)

- [Close] Link (5):
- : Button for displaying the subsequent year's image.
  - The link for closing the Enlarged [Global NDVI Map] Screen.

# 6.17 Browse Images of the Global Radiance Distribution Screen

(1) Moving to the [Browse images of the global radiance distribution] Screen Click on [Browse images of the global radiance distribution] on the [Gallery] Screen (see section 6.1) to move to the [Browse images of the global radiance distribution] Screen (new screen).



(2) [Browse images of the global radiance distribution] Screen

Select the [Observational Year] ((1) below) from the pull-down menu on the [Global Radiance Browse Image] Screen, and then click on the [Date] ((2) below) to display the [Global Radiance Browse Image Display] Screen for the selected observational date.

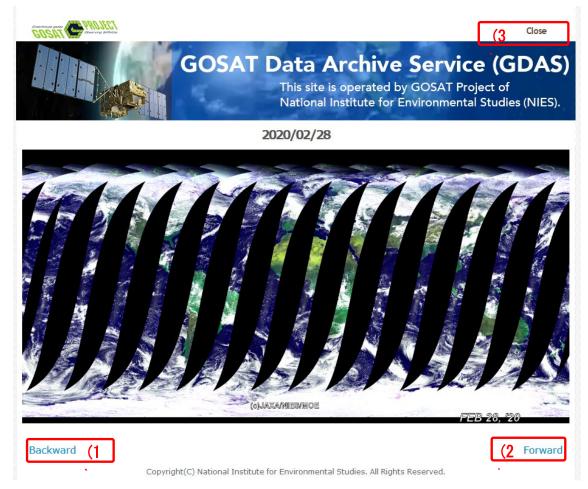
Mar       1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25       26       2       2       2       23       24       25       26       2       2       2       23       24       25       26       2       2       23       24       25       26       2       2       23       24       25       26       2       23       24       25       26       2       23       24       25       26       2       23       24       25       26       2       23       24       25       26       2       23       24       25       26       27       28       24       25       26       27       28       27       28       24       25       26       27       28       27       28       29       20       21       23       24       25       26       27       28       27       28       28       28       28       28       28       28       28 <th28< th=""> <th28< th="" th<=""><th></th><th>Clo</th><th>3</th><th>(;</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>nter .</th><th>ing SATe</th><th>Caserr</th><th>G</th><th>142</th><th>CO</th></th28<></th28<>		Clo	3	(;																								nter .	ing SATe	Caserr	G	142	CO	
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* CAI is an imager to observe cloud and aerosols with 4 bands, whose central wave length are 1600nm, 870nm 2800nm respectively. These color components are created with 870nm data <sup>*1</sup> ) for green channel, 674 nm for reductive of blue. **) These data are the reflectively data. Total are the reflectively of the second of th	ribution	stribu	dist	ice d	dian	al ra	lob	L3 g	CAI	ne C	g tl	sing	us	d by	liced	rod	re p	on a	buti	istri	ce d	diano	l rad	loba	ne g	of th	jes (	imag	vse					
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- Observational year
   Selects the observation year to be displayed (most recent year displayed as the default).
   Date
   The link to the [Global Radiance Browse Image Display] Screen for each observational date.
- (3) [Close] Link: The link for closing the [Browse images of the global radiance distribution] Screen.

<u>Information</u>: The background colors on the calendar are color-coded into three groups of path numbers in alignment with the three-day rotation cycle of GOSAT observations.

#### (3) [Global Radiance Browse Image Display] Screen

Displays the global radiance browse image on an enlarged screen. Click on [Backward] ((1) below) or [Forward] ((2) below) to display the previous or subsequent image.



- (1) [Backward] Link
- : Link for displaying the previous month's image.
- (2) [Forward] Link
- (3) [Close] Link
- : Link for displaying the subsequent month's image.
- : The link for closing the [Global Radiance Browse Image Display] Screen.

# 7 User Registration Procedure

To download GOSAT products, it is necessary to register for GDAS and create a user account first. This section explains the user registration procedure.

#### 7.1 User Registration Types

There are two types of user registration: general user registration and authorized user registration.

Authorized users here refer to users specifically authorized by the GOSAT project, which include researchers affiliated with research institutes conducting collaborative research adopted through the GOSAT Series Research Announcement (RA), as well as GOSAT science team, and organizations cooperating with the project. General users on the other hand, refer to general data users excluding authorized users and NIES internal users. See [13.1 User Categories] for details on user categories. Note that users who have a GUIG account do not need to newly register for GDAS.

#### 7.2 Procedure for General User Registration

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

#### (1) Clicking on [User Registration] on the GDAS top screen

Click on [User Registration] on the GDAS top screen (see section 4.1) to move to the [User Registration] Screen (new screen).



(2) Clicking on the [Go term of service] Button under the General user registration On the [User Registration] Screen, click on the [Go term of service] Button under the General user registration ((1) below) to move to the [Terms of Service] Screen for general users.

You need user registration for using this service.         • Authorized User: Those who approved as an authorized user by GOSAT Project in advance         • General User: Other than above         Note: GOSAT-2 products are available on ANOTHER website : "GOSAT-2 Product Archive".         • General user registration         Please read the Terms of Data Use, and register. In addition, authorized users do not need to register as "General User".         • (1)       Go term of service         • Authorized user application         If Authorized user application         If you are an RA researcher or organizational personnel authorized by the GOSAT project, please read the Terms of Data Use and download the Application Form for Authorized User Registration.         Go term of service         (2)       Cose	GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
General user registration Please read the Terms of Data Use, and register. In addition, authorized users do not need to register as "General User".     (1) Go term of service     Authorized user application If you are an RA researcher or organizational personnel authorized by the GOSAT project, please read the Terms of Data Use and download the Application Form for Authorized User Registration.     Go term of service	Authorized User: Those who approved as an authorized user by GOSAT Project in advance
register as "General User". (1) Go term of service Authorized user application If you are an RA researcher or organizational personnel authorized by the GOSAT project, please read the Terms of Data Use and download the Application Form for Authorized User Registration. Go term of service	
If you are an RA researcher or organizational personnel authorized by the GOSAT project, please read the Terms of Data Use and download the Application Form for Authorized User Registration. Go term of service	register as "General User".
read the Terms of Data Use and download the Application Form for Authorized User Registration. Go term of service	Authorized user application
(2) Ciose	read the Terms of Data Use and download the Application Form for Authorized User Registration.
	(2) Close

(1)	[Go term of service]	:	The button for moving to the [Terms of Service] Screen
	Button		for general users.
(2)	[Close] Button	:	The button for closing the [User Registration] Screen.

(3) Agreeing to the GDAS Terms of Service for general users

On the [Terms of Service] Screen, the GDAS Terms of Service for general users ((1) below) is displayed. Read the terms of service and scroll to the bottom to enable the [Agree] Button ((2) below).

If you agree to the terms of service, click on the [Agree] Button ((2) below) to move to the [Privacy Policy] Screen (proceed to procedure (4)).

If you do not agree to the terms of service, click on the [Disagree] Button ((3) below) to move to the [User Registration] Screen (proceed to procedure (2)).

Commission gamerica and the commission of the co
GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
GOSAT Data Archive Service (GDAS) Terms of Service
These Terms of Service are for the use of the GOSAT Data Archive Service (hereinafter referred to as "GDAS"), the GOSAT data product delivery service offered by the GOSAT Project of the National Institute for Environmental Studies (hereinafter referred to as "NIES GOSAT Project"). Please read the following terms carefully and accept them for using any services provided through the GDAS. <b>1. Copyrights and Links</b> • The copyright and link policy of the National Institute for Environmental Studies (hereinafter referred to as "NIES GOSAT Project. <b>2. Rights to the GOSAT Data</b> • The GOSAT Project is a joint effort of the Japan Aerospace Exploration Agency (hereinafter referred to as "IAXA"). NIES, and the Ministry of the Environment
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.

(1) Terms of Service : Displays the GDAS Terms of Service.

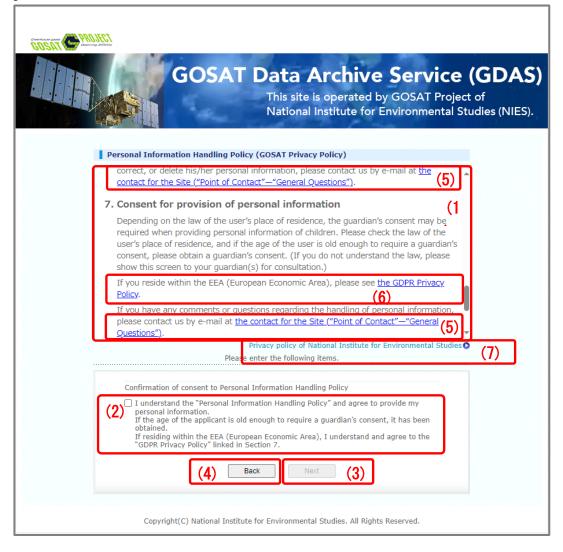
(2)	[Agree] Button	:	The button for indicating your agreement to the GDAS
			Terms of Service. Scroll to the bottom of the Terms of
			Service to enable this button and click on it to move to
			the [Privacy Policy] Screen.
(3)	[Disagree] Button	:	The button for indicating your disagreement to the
			GDAS Terms of Service.

#### (4) Agreeing to the Personal Information Handling Policy

On the [Personal Information Handling Policy] Screen, the Personal Information Handling Policy (GOSAT Privacy Policy) ((1) below) is displayed.

If you agree to the Personal Information Handling Policy, check the [Confirmation of consent to Personal Information Handling Policy] Checkbox ((2) below) to enable the [Next] Button ((3) below) and click on it to move to the [General User Registration] Screen (proceed to procedure (8)).

To further review the GDPR privacy policy, click on [the GDPR Privacy Policy] Link ((6) below) to move to the [GDPR Privacy Policy] Screen (new screen) (proceed to procedure (5)). To review the NIES privacy policy, click on the [Privacy Policy of the National Institute for Environmental Studies] Link ((7) below) to move to the [Privacy Policy of the National Institute for Environmental Studies] Screen (new screen) (proceed to proceed to procedure (7)).



(1)	Privacy Policy	:	Displays the Personal Information Handling
			Policy (GOSAT Privacy Policy).
(2)	[Confirmation of consent to	:	The checkbox for indicating your agreement to
	Personal Information		the GOSAT Privacy Policy.
	Handling Policy] Checkbox		
(3)	[Next] Button	:	Check the [Confirmation of consent to Personal
			Information Handling Policy] Checkbox to
			enable this button and click on it to move to the
			[General User Registration] Screen.
(4)	[Back] Button	:	The button for returning to the [Terms of
			Service] Screen for general users.
(5)	[the contact for the Site	:	The link to the [Point of Contact/FAQ] Screen
	("Point of Contact"—		(new screen).
	"General Questions")] Link		
(6)	[the GDPR Privacy	:	The link to the [GDPR Privacy Policy] Screen
	Policy] Link		(new screen).
(7)	[Privacy policy of the	:	The link to the [Privacy Policy of the National
	National Institute for		Institute for Environmental Studies] Screen
	Environmental Studies]		(new screen).
	Link		

#### (5) Reviewing the GDPR Privacy Policy

On the [GDPR Privacy Policy] Screen, review the GDPR Privacy Policy ((1) below). Click on [Close] ((5) below) to close the screen after reviewing.

To review the cookie policy, click on the [cookie policy] Link ((2) below) to move to the [Cookie Policy] Screen (new screen) (proceed to procedure (6)).

Countral gener Constant Constant	(5) Close
GOSAT Data Archive Serve This site is operated by GOSAT P National Institute for Environment	Project of
GDPR Privacy Policy	
1. Protection and control of personal data	(1)
National Research and Development Agency/National Institute for Environmental Studies (hereinafter Institute") provides services, such as information dissemination and inquiry reception, on the GOSAT (hereinafter referred to as "the Site"). We collect the personal data described below within the necess smooth operation of the services provided on the Site. The collected personal data will be processed a scope of the purpose of use.	Data Archive Service sary scope for the
2. Definition of terms	
The definitions of terms in the GDPR Privacy Policy (hereinafter referred to as "the Policy") are as follo	ows:
<ul> <li>GDPR Privacy Policy: The privacy policy provided on the Site based on the EU General Data Prote the relevant privacy laws and regulations including the enforcement laws and regulations of each</li> </ul>	
<ul> <li>Personal data: Information about an identified or identifiable natural person ("data subject"). On about individuals such as e-mail addresses that is necessary for the operation of the Site.</li> </ul>	the Site, information
<ul> <li>Processing: Operations performed on personal data (data collection, recording, editing, storage, modification/amendment, recovery, reference, use, disclosure/provision, alignment, restriction, d</li> </ul>	leletion, etc.).
3. Scope of application	
The Policy applies to users of the Site who live or reside within the EEA (European Economic Area).	
4. Personal data to be collected	
The Institute collects the following personal data about users of the Site and users who have registere (hereinafter referred to as "the registered users").	ed as users on the Site
(1) Users of the Site	
- Information about inquiry (e-mail address, etc.) only when there is an inquiry from a user of th	le Site
- IP address (IP address included in access log)	

	(2) Registered users
	- E-mail address (1)
	- Country or region
	- Job
	- IP address (IP address included in access log)
	* When applying for an Authorized User (RA investigator and organizational personnel approved by the GOSAT Project, etc.), in addition to the personal data of the registered user, the name, organization, department, etc. are required.
5.	Purpose and legal basis of personal data processing and usage
	When processing and using personal data, the purpose of use should be clarified in accordance with Article 6.1 (a) of the GDPR, and personal data will be processed if the consent of the user himself/herself is obtained in advance and in accordance with the legal basis stipulated in Article 6.1 (b) to (f) of the GDPR. However, with regard to Article 6.1 (f) of the GDPR, personal data shall be used within the scope of the following legitimate interests.
	(1) Depending on the response to inquiries to the Site and the content of the inquiries, transfer to relevant departments in the Institute, and relevant ministries and agencies (information on inquiries)
	(2) Security measures for the server that operates the Site (IP address)
	(3) User authentication when using the services of the Site
	(4) Notification by e-mail from the electronic service of the Site
	(5) Necessary communications with the registered users (e-mail address)
	(6) Implementation of reports, etc. based on requests from public institutions (e-mail address, country or region)
6	Impact on users refusing to provide personal data
0.	Impact on users refusing to provide personal data
	In order to obtain the data provided on the Site, you must register as a user. If you refuse to provide your personal data and 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 Site may be disclosed, provided, or shared outside the Site for the following purposes.
	(1) In order to achieve the purposes described in the Policy, we may disclose, provide, or share the personal data of users with relevant ministries and agencies, etc. When sharing personal data with relevant ministries and agencies, etc., we will take the measures prescribed in Article 26 of the GDPR and disclose the data to the user himself/herself.
	(2) In complying with EU law or the laws of EU/EEA member countries, we will disclose and provide the personal data of users to the authorities and the other disclosure and provision parties stipulated by the law.
8.	Site security (SSL description)
	The 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.
0	About cookies (purpose of use)
9.	The Site uses cookies to switch between Japanese and English notation on the Site and to maintain the processing status across multiple pages. Please see our cookie policy for more information.
10.	Transfer of personal data outside the EU
	The Institute will not transfer the personal data it holds to other countries.
11.	Retention period of personal data
	Personal data registered on the Site will be stored for up to 6 months after the end of the services of the Site in order to respond to inquiries from users.
12.	Rights of users of the Site, etc.
	(1) The user has the following rights regarding the personal data held by the Institute.
	A) Right to obtain all necessary information regarding data processing (GDPR Article 13, GDPR Article 14)
	B) Right to inquire about information (GDPR Article 15)
	C) Right to correct information (GDPR Article 16)
	D) Right to erase information "Right to be forgotten" (GDPR Article 17)
	E) Right to restrict information processing (GDPR Article 18)
	F) Right to object to information processing (GDPR Article 21)
	G) Right to data portability (GDPR Article 20)
	<ul> <li>(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 the consent at any time. The withdrawal of consent shall not affect the lawfulness of processing based on consent before its withdrawal. (GDPR Article 7, Paragraph 3)</li> </ul>

	(1 user has the right to lodge a complaint with an information protection supervisory authority regarding the
	xessing of personal data on the Site. (GDPR Article 77) ou wish to confirm, correct, or delete, etc. your personal data, please contact us by e-mail at <u>the contact for the Sit</u>
<u>("Po</u>	int of Contact"—"General Questions"). We will respond promptly after confirming your identity. (3)
	bu wish to stop using the services of the Site, please let us know by e-mail at <u>the contact for the Site ("Point of</u> tact"—"GOSAT Product and Service"). (4)
13. Disclai	mer
policies,	mational purposes, the Site may post links to websites other than the Institute. Since linked sites have their own when accessing a linked website please check the policies of the linked website. The Institute is not responsible for ent of any linked website outside the Institute, the use of the site, and the processing of personal data.
14. Accept	ance to the GDPR Privacy Policy
	y of the following actions by the user, the Institute assumes that the user has accepted to the Policy of the Site and essing methods of personal data described herein. Please do not provide your personal data unless you accept it.
• Whe	en you have agreed to the Personal Information Handling Policy on the Site
	en you have filled in the date of consent to the Personal Information Handling Policy in documents such as the lication form for Authorized User registration, etc.
15. Revisio	on of the GDPR Privacy Policy
	comply with laws and regulations, and other norms related to personal data, and continuously improve our system acting personal data. When we revise the Policy, we will announce the revision and clearly state the revision date or
16. Data p	rotection officer
Director,	Earth System Division, National Institute for Environmental Studies
17. Contac	t
GOSAT F	Project, Satellite Observation Center, National Institute for Environmental Studies
Address	: 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan
TEL	: +81-29-850-2035
E-mail	Contact for the Site ("Point of Contact"—"General Questions") (3)
	March 12, 2024

(1)	GDPR Privacy	:	Displays the GDPR Privacy Policy.
	Policy		
(2)	[cookie policy] Link	:	The link to the [Cookie Policy] Screen (new screen).
(3)	[the contact for the	:	The link to the [Point of Contact/FAQ] Screen (new
	Site ("Point of		screen).
	Contact"—"General		
	Questions")] Link		
(4)	[the contact for the	:	The link to the [Point of Contact/FAQ] Screen (new
	Site ("Point of		screen).
	Contact"—"GOSAT		
	Product and		
	Service")] Link		

(5) [Close] Link : The link for closing the [GDPR Privacy Policy] Screen	Policy] Screen.
--------------------------------------------------------------------------	-----------------

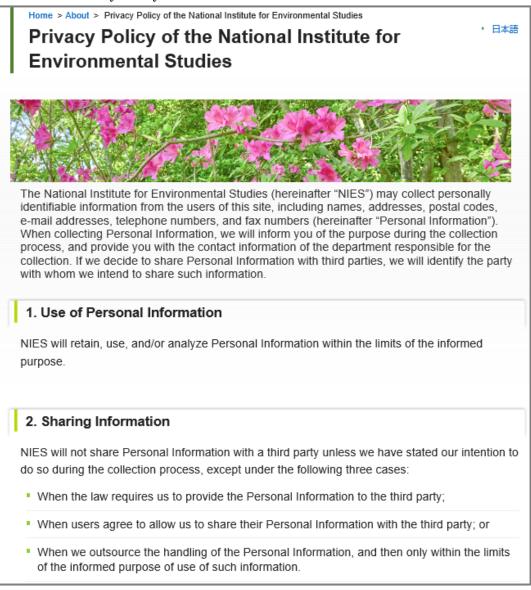
# (6) Reviewing the Cookie Policy.

On the [Cookie Policy] Screen, review the cookie policy ((1) below). Click on [Close] ((2) below) to close the screen after reviewing.

Constant Con	(2) Close
	GOSAT Data Archive Service (GDAS This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES)
Cookie Policy	
1. About cookies (purpos	(1)
switch between Japanese an	ice (hereinafter referred to as "the Site") uses the following cookies. Cookies are only used to English notation on the Site and to maintain the processing states across multiple pages, will not be obtained through the use of cookies.
switch between Japanese an	English notation on the Site and to maintain the processing states across multiple pages.
switch between Japanese an Personal information and da	English notation on the Site and to maintain the processing states across multiple pages, will not be obtained through the use of cookies.
switch between Japanese ar Personal information and da Required cookies	English notation on the Site and to maintain the processing states across multiple pages, will not be obtained through the use of cookies.
switch between Japanese an Personal information and da Required cookies 1 Web page language swit	English notation on the Site and to maintain the processing states across multiple pages, will not be obtained through the use of cookies.
switch between Japanese an Personal information and da Required cookies 1 Web page language swit 2 Session management 2. About required cookie Users can stop the function	English notation on the Site and to maintain the processing states across multiple pages, will not be obtained through the use of cookies.

(1)	Cookie Policy	:	Displays the Cookie Policy.
(2)	[Close] Link	:	The link for closing the [Cookie Policy] Screen.

(7) Reviewing the Privacy Policy of the National Institute for Environmental Studies On the [Privacy Policy of the National Institute for Environmental Studies] Screen, review the Privacy Policy of the National Institute for Environmental Studies.



(8) Filling in the User information form and clicking on the [Register] Button On the [General User Registration] Screen, fill in the registration information in the [User information] Form ((1) below) and click on the [Register] Button ((2) below) to move to the [New General User Registration Confirmation] Screen.

Constant of the Constant of th		<b>IOSAT Data Archive Service (GDAS)</b> This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
	User information	Please enter the following items.
	E-mail address E-mail address (for confirmation) Country Job E-mail language Purpose(s)	(1) Japanese OEnglish Algorithm research Data verification Analysis of data Applied research Educational teaching material etc
	(4)	Back to "User Registration" Register (2) and/or after E-mail address are automatically deleted from registered one. (2) National Institute for Environmental Studies. All Rights Reserved.

(1)	[User Information] Form	:	The form for filling in the information required
			for the general user registration.
(2)	[Register] Button	:	The button for registering the user information.
(3)	[Back to "User Registration"]	:	The button for returning to the [User
	Button		Registration] Screen.
(4)	Error Message	:	The area for displaying details of errors in the
			information entered.

<u>Important</u>: All fields must be completed when newly registering as a general user.

(9) Confirming the information and clicking on the [Register] Button

On the [New General User Registration Confirmation] Screen, the information you have filled in is displayed ((1) below). After confirming the information, click on the [Register] Button ((2) below) to move to the [General User Registration Complete] Screen.

	G	<b>IOSAT Data Archive Service (GDA</b> This site is operated by GOSAT Project of
		National Institute for Environmental Studies (NIE Please check your input. If there is no mistake, please register.
(1	Your subscription E-mail address Country Job E-mail language Purpose(s)	n test@example.com jp : Japan Educational institution Japanese Data verification
		(3 Back Register (2)

- (1) Your Subscription : Displays the user registration details.
- (2) [Register] Button : The
- (3) [Back] Button
- : The button for registering the user account.
- : The button for returning to the [User Registration] Screen.

<u>Information</u>: If there are any errors in the information entered, return to the [User Registration] Screen by clicking the [Back] Button shown in (3) above and correct the information. (10) Confirming that an e-mail with a temporary password has been sent to the registered e-mail address

On the [General User Registration Complete] Screen, confirm that the new general user registration has been completed ((1) below). Also, confirm that an e-mail titled "GDAS: Notification of completion of user registration (general user)" containing a temporary password has arrived at the registered e-mail address.

	GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
(1 、 If you do	Thank you for registeration. Initial password will be sent to registered e-mail address. Please change your initial password within 7 days. In addition, e-mail address is used as your user ID. If initial password has not been changed within 7 days, your registered ID will be disabled. 't receive e-mail within a day, please contact at gosat−support@nies.go.jp.
	(2) Close

- (1) Completion of : Indicates that the new general user registration has been Registration completed.
- (2) [Close] Button
- : The button for closing the [General User Registration Complete] Screen.

# <u>Important</u> : The following e-mail containing a temporary password will be sent after user registration has been completed.

After receiving a temporary password, access the [Initial Password Change] screen to change the password (proceed to procedure (11)).

(11) Accessing the URL (Login Page) provided in the e-mail

Access the URL (Login Page) provided in the e-mail titled "GDAS: Notification of completion of user registration (general user)" to open the [Login] Screen. Fill in the user ID and temporary password in the [User Authentication] Form ((1) below) and click on the [Login] Button to move to the [Initial Password Change] Screen.

	GOSAT Data Archive Service (GD This site is operated by GOSAT Project of National Institute for Environmental Studies (
User authen	tication
(1) User ID Password	
	(2) Login Forget your password? here

- (1) [User Authentication] : The form for entering the user ID of the registered account user and the temporary password received.
- (2) [Login] Button : The button for login.

	f there are any in	iput cirors, ti		 
played in red	l.			
User authentication				
User ID				
Password				
	Login			
	User ID is required. Password is required.	Forget your password?	here	

#### (12) Registering a new password

On the [Initial Password Change] Screen, fill in the new password you want to register ((1) below). Click on the [Update] Button ((2) below) after filling in the form to move to the [Download] Screen.

COMPACENT DATA		(3) Logout
	This site is ope	chive Service (GDAS) erated by GOSAT Project of sute for Environmental Studies (NIES).
Initial Password Cha	nge	
E-mail address New password New password (for confirmation)	fip-gosat-test-1@nies.go.jp	(1)
Passwords must be be characters:	tween eight and twenty characters and contain at	least two of the following types of
1. Upper case letters: 2. Lower case letters: 3. Numerals: 0 throug 4. Special characters:	A through Z a through z h 9 ( !"#\$%&'()"+,/:;<=>?@[\]^_`{ }~ )	
Note) Space character	s are not allowed.	
Соруг	ight(C) National Institute for Environmental Studie	es. All Rights Reserved.

- (1) [Initial Password : The form for entering the new password. Change] Form
- (2) [Update] Button : The button for updating the password.
- (3) [Logout] Button : The button for ending the [Initial Password Change] Screen, but not for the button for executing the password change.

Important: The password needs to include more than two kinds of characters written below. (1) Capital letter (A to Z) (2) Lower case letter (a to z)

- (3) Numeral (0 to 9)
- (4) Special character (!"#\$%&'()\*+,-./:;<=>?@[¥]^\_`{|}~)
- \*Space is not allowed.

#### 7.3 Procedure for Authorized User Application

This section explains the procedure for applying for an authorized user account.

#### (1) Clicking on the [User Registration] on the GDAS top screen

Click on the [User Registration] on the GDAS top screen (see section 4.1) to move to the [User Registration] Screen (new screen).



(2) Clicking on the [Go term of service] Button under the Authorized user applicationClick on the [Go term of service] Button under the Authorized user application ((1) below) to move to the [Terms of Service] Screen for authorized users.

	GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
	You need user registration for using this service.
General Use	Iser: Those who approved as an authorized user by GOSAT Project in advance :: Other than above products are available on ANOTHER website : "GOSAT-2 Product Archive".
General us	er registration
Please read the register as "Ge	Terms of Data Use, and register. In addition, authorized users do not need to neral User". Go term of service
Authorize	l user application
	A researcher or organizational personnel authorized by the GOSAT project, please of Data Use and download the Application Form for Authonized User Registration.
	(2 Close

- (1) [Go term of service] : The button for moving to the [Terms of Service] Screen Button for authorized users.
- (2) [Close] Button : The button for closing the [User Registration] Screen.

(3) Agreeing to the GDAS Terms of Service for authorized users

On the [Terms of Service] Screen, the GDAS Terms of Service for authorized users ((1) below) is displayed. Read the Terms of Service and scroll to the bottom to enable the [Agree] Button ((2) below).

If you agree to the terms of service, click on the [Agree] Button ((2) below) to move to the [Authorized User Application] Screen (proceed to procedure (4)).

If you do not agree to the terms of service, click on the [Disagree] Button ((3) below) to move to the [User Registration] Screen (proceed to procedure (2)).

GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of
National Institute for Environmental Studies (NIES).           GOSAT Data Archive Service (GDAS) Terms of Service
These Terms of Service are for the use of the GOSAT Data Archive Service (hereinafter referred to as "GDAS"), the GOSAT data product delivery service offered by the GOSAT Project of the National Institute for Environmental Studies (hereinafter referred to as "NIES GOSAT Project"). Please read the following terms carefully and accept them for using any services provided through the GDAS.  1. Copyrights and Links  • The copyright and link policy of the National Institute for Environmental Studies (hereinafter referred to as "NIES") is applied to all the websites offered by the NIES GOSAT Project.
2. Rights to the GOSAT Data • The GOSAT Project is a joint effort of the Japan Aerospace Exploration Agency (hereinafter referred to as "JAXA"). NIFS, and the Ministry of the Environment (3 Disagree Agree (2)
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.

 Terms of Service
 Displays the GDAS Terms of Service.
 [Agree] Button
 The button for indicating your agreement to the GDAS Terms of Service. Scroll to the bottom of the terms of service to enable this button and click on it to move to the [Authorized User Application] Screen.
 [Disagree] Button
 The button for indicating your disagreement to the GDAS Terms of Service. (4) Checking the application method for authorized user registration and downloading the Application Form for Authorized User Registration

On the [Authorized User Application] Screen, check the application method for authorized user registration ((1) below). Click on the [Download Application Form] Button ((2) below) to download the Application Form for Authorized User Registration.

(4 Close
GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
Authorized user application Please fill out the Application Form for Authorized User Registration and e-mail it to gosat-apply@nies.go.jp, Write "Authorized user application" as an e-mail subject. GOSAT Project will examine your application and notify the result via e-mail. If you don't receive an user registration mail within 3 business days, please e-mail to
(3) Back to "User Registration" Download Application Form (2
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.

(1)	Explanation of :	Explains the application method of
	the Application Method	authorized user registration.
(2)	[Download Application Form] :	The button for downloading the Application
	Button	Form for Authorized User Registration.
(3)	[Back to "User Registration"] :	The button for returning to the [User
	Button	Registration] Screen.
(4)	[Close] Link	The link for closing the [Authorized User
		Application] Screen.

Fill in all required information in the downloaded Application Form for Authorized User Registration, and send the application form to [gosat-apply@nies.go.jp] by e-mail.

GOSAT Data Archive Service Operation Manual

Your eligibility as an authorized user will be reviewed by the GOSAT project, and you will be notified of the result later.

# 8 Procedures for Login and Logout

This section explains the procedures for logging into and out of the GDAS website, and resetting the GDAS login password, for registered users.

## 8.1 Login

This section explains the procedure for logging into the GDAS website for registered users.

#### (1) Moving to the [Login] Screen

Click on [Login] on the GDAS top screen menu (see section 4.1) to move to the [Login] Screen (new screen).



(2) Entering the userID and password in the [User Authentication] Form

Enter the login information in the [User Authentication] Form ((1) below) and click on the [Login] Button to move to the [Download] Screen (proceed to procedure (6)). However, if the logged-in user has not agreed to the latest privacy policy, the [Privacy Policy] Screen will be displayed (proceed to procedure (3)).

	(4) Close <b>GOSAT Data Archive Service (GDAS)</b> This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
(1) User authen Password	
	(2 Login (3 Forget your password? here

(1)	[User Authentication]	:	The form for entering the user ID and password of
	Form		the registered account user.
(2)	[Login] Button	:	The button for logging in.
(3)	[here] Link	:	The link to the [Reset Password] Screen

- : The link to the [Reset Password] Screen
- (4) [Close] Link
- : The link for closing the [Login] Screen.

Information: If there are any input errors, the error fields will be displayed in red. User authentication User ID Password Login Forget your password? here User ID is required. Password is required.

(3) Agreeing to the Personal Information Handling Policy (GOSAT Privacy Policy)

On the [Personal Information Handling Policy] Screen, the Personal Information Handling Policy (GOSAT Privacy Policy) ((1) below) is displayed.

If you agree to the GOSAT Privacy Policy, check the [Confirmation of consent to Personal Information Handling Policy] Checkbox ((2) below) and click on the [Next] Button ((3) below) to move to the [Download] Screen (proceed to procedure (6)).

If you do not agree to the GOSAT Privacy Policy, uncheck the [Confirmation of consent to Personal Information Handling Policy] Checkbox ((2) below) and click on the [Next] Button ((3) below) to move to the [Confirmation of service use suspension] Screen (proceed to procedure (5)).

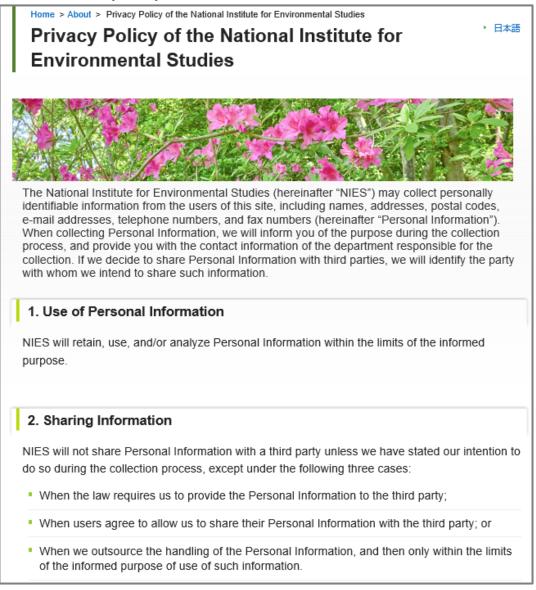
To further review the NIES privacy policy, click on the [Privacy Policy of the National Institute for Environmental Studies] Link ((4) below) to move to the [Privacy Policy of the National Institute for Environmental Studies] Screen (new screen) (proceed to procedure (4)).

Countrate your Country States	(5)	Logout
GOSAT Data Archive Serv This site is operated by GOSAT National Institute for Environm	T Project of	
As of March 2024, the user is required to agree to the Personal Information Handling Policy in o the services on this site. Therefore, please read and agree to it below.	order to use	
Personal Information Handling Policy (GOSAT Privacy Policy)		
1. Personal information protection policy	(1	
The GOSAT Project will comply with applicable laws and regulations, rules, and the privacy policy of the National Institute for Environmental Studies (NIES) regardin handling of personal information of users, and appropriately review and improve efforts to protect personal information.	ng the	
2. Personal information to be collected		
The GOSAT Project collects the following personal information from users of the Data Archive Service (hereinafter referred to as "the Site") and users who have registered as users on the Site (hereinafter referred to as "the registered users")		
(1) Users of the Site		
<ul> <li>Information about inquiry (e-mail address, etc.) only when there is an inqu from a user of the Site</li> </ul>	uiry	
Privacy policy of National Institute for Environment Please enter the following items.	al Studies 🛛	(4)
Confirmation of consent to Personal Information Handling Policy		
(2) I understand the "Personal Information Handling Policy" and agree to provide my personal information. If the age of the applicant is old enough to require a guardian's consent, it has been obtained. If residing within the EEA (European Economic Area), I understand and agree to the "GDPR Privacy Policy" linked in Section 7.	177033	
(3) Next		
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.		

- (1) GOSAT Privacy Policy
- (2) [Confirmation of consent to Personal Information Handling Policy] Checkbox
- : Displays GOSAT project's policy on the handling of personal information.
- : The checkbox for indicating your agreement to the Personal Information Handling Policy (GOSAT Privacy Policy).

(3)	[Next] Button	:	The button for moving to the [Download] Screen							
			or the [Confirmation of service use suspension]							
			Screen							
			If the [Confirmation of consent to Personal							
			Information Handling Policy] Checkbox is							
		checked, the screen will move to the [Down								
			Screen, otherwise the screen will move to the							
			[Confirmation of service use suspension] Screen.							
(4)	[Privacy policy of the	:	Link to the [Privacy Policy of the National							
	National Institute for		Institute for Environmental Studies] Screen.							
	Environmental Studies]									
	Link									
(5)	[Logout] Link	:	The link to a pop-up screen for logout.							

(4) Reviewing the Privacy Policy of the National Institute for Environmental Studies On the [Privacy Policy of the National Institute for Environmental Studies] Screen, review the Privacy Policy of the National Institute for Environmental Studies.



#### (5) How to delete a registered user

If you do not agree to the Personal Information Handling Policy (GOSAT Privacy Policy) and wish to unregister as a user, please contact us at the e-mail address listed on this screen ((1) below).

Click on the [Back] Button ((2) below) to return to the [Privacy Policy] Screen (proceed to procedure (3)).

Composed game	(3) Logout
	GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
Confirmation of	service use suspension
on this site.	to the Personal Information Handling Policy, you will not be able to use the services gosat-support@nies.go.jp if you do not agree to it and wish to delete as a user.
	(2) Back
Copyrig	ht(C) National Institute for Environmental Studies. All Rights Reserved.

- (1) Explanation of how : Displays instructions on how to suspend use of GDAS
   to suspend use of and delete the user information from GDAS
   GDAS
- (2) [Back] Button : The button for returning to the [Privacy Policy] Screen
- (3) [Logout] Link : The link to a pop-up screen for logout.

(6) Moving to the download screen of the product.

A list of downloadable products will be displayed for users who have logged in ((4) below). Click on any of the products to move to the download screen (see section 9.1 for further details).

TARU	PROJECT Observing Settleto	Download Documen	ts & Informatio	on		GU : (2 User Informati	ion Logou
		GOS Ownload Page e 'Product name' white	Tł N	nis site is ational In	operate stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	F
ensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit
	L1B	FTS L1B data	Daily Path	CAI	L1B	CAI L1B data	Path
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path
	L2	L2 CO2 column amount (SWIR)	Monthly		L2 L3	L2 cloud flag L3 global radiance distribution	Path
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly
TS		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
		L3 global CO2 distribution (SWIR)	Monthly		L4A	L4A global CO2 flux	Annual
	L3	L3 global CH4 distribution	Monthly	-		L4A global CH4 flux	Annual
		(SWIR)					

- (1) [Documents & : Link to the [Document and Information] Screen on Information] Link which a list of documents and technical information, etc., will be displayed in alignment with the category of the logged-in user.
- (2) [User Information] : Link to the [User Information] Screen on which Link information for logged-in users can be changed.
- (3) [Logout] Link : The Link to a pop-up screen for logout.
- (4) Main Screen: Displays a list of downloadable products in alignment with the category of the logged-in user.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

## 8.2 Logout

This section explains the procedure for logging out of the GDAS website for registered users.

#### (1) [Logout] Operations

Click on [Logout] on the [Download] Screen menu (see section 8.1 (3)) to display a popup screen.



Click on the [OK] Button ((1) below) to log out (the screen will move to the [Logout] Screen once the button has been clicked).

	PRIME	C.S.R.	Tł	ita A	operate	GU : User Informati VE Service (C ad by GOSAT Project of for Environmental Studi	GDA:
		Download Page		wish to logou		d. Product Name	Unit
	L1B	FTS L1B data	) ок	Ca	ncel	2). 18 data	Path
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path
	L2	L2 CO2 column amount (SWIR)	Monthly	CAI	L2 L3	L2 cloud flag L3 global radiance	Path
		L2 CH4 column amount (SWIR)	Monthly			distribution	Monthly
FTS		(SWIR) L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly			L4A global CO2 flux	Annual
		L3 global CO2 distribution (SWIR)	Monthly		L4A	L4A global CH4 flux	Annual
	L3	L3 global CH4 distribution (SWIR)	Monthly	-	L4B	L4B global CO2 distribution	Annual
						L4B global CH4 distribution	Annual
		Copyright(C) National Ins	titute for Env	(ironmental )	Studies, /	Il Rights Reserved.	

- (1) [OK] Button
- : The button for logging out.
- (2) [Cancel] Button
- : The button for cancelling logout.

# (2) [Logout] Screen

The following screen will be displayed after logging out.



- (1) [Go to login page] Link
- (2) [Close] Link
- : The link for moving to the [Login] Screen.
- : The link for closing the [Logout] Screen.

## 8.3 Procedure for Resetting Passwords

This section explains the procedure for resetting the GDAS login password when the original password has been forgotten, etc.

#### (1) Moving to the [Reset Password] Screen

Click on [here] on the [Login] Screen (see section 8.1 (2)) to move to the [Reset Password] Screen.

User authentication				
User ID				
Password				
	Login	0000 000	assword? here	100

## (2) [Reset Password] Screen

Enter your e-mail address in the entry form ((1) below) to reset your password. Click on the [Confirm] Button ((2) below) after entering the details to move to the [Password Reset Application] Screen.

GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
STEP1     STEP2     STEP3       Input registered e-mail address     Issue initial password and send URL     Send Initial password       E-mail Address Enter     Please enter registered e-mail address.
(1) E-mail address (3) Back Confirm (2
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.

- E-mail address : The field for entering the e-mail address for which the password is to be reset.
   [Confirm] : The button for moving to the [Password Reset Application] Button Screen.
- (3) [Back] Button : The button for returning to the [Login] Screen.

## (3) [Password Reset Application] Screen

Displays the e-mail address entered. Check that it is correct and then click on the [Apply] Button ((2) below) to move to the [Password Reset Application Received] Screen.

elawerstaar gener GOSAT Constanting all all all all all all all all all al
GOSAT Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
STEP1 STEP2 STEP3 Input registered e-mail address Step3 Input registered and send URL Step3 Send initial password
Enter e-mail address Do you wish to apply ? (1):-mail address fip-gosat-test@nies.go.jp
(3) Back Apply (2)
Copyright(C) National Institute for Environmental Studies. All Rights Reserved.

- (1) Registration Details : Displays the e-mail address.
- (2) [Apply] Button : The button for applying for the password to be reset.
- (3) [Back] Button : The button for returning to the [Reset Password] Screen.

**Information**: If there is an error in the e-mail address, return to the [Reset Password] entry screen by pressing the [Back] button shown in (3) above and correct the error.

#### (4) [Password Reset Application Received] Screen

Displays the fact that the application for the password to be reset has been sent and that a password reset confirmation e-mail will be sent.

G	<b>OSAT Data Archive Service</b> This site is operated by GOSAT project of National Institute for Environmental Studies (NIES).
STEP1 Input registered e-mail address	STEP2 STEP3 sue initial password and send URL Send initial password
Reset your passwo	r password has been sent via e-mail. rd by clicking the URL in the e-mail. the password is initialized. Close

- (1) Application : Displays a message indicating that the application for the password to be reset has been received.
- (2) [Close] Button : The button for closing to the [Password Reset Application Received] Screen.

<u>Important</u>: A confirmation message will be sent to the entered e-mail address when the application for password reset is received.

#### (5) Password Reset Confirmation e-mail

Click on the URL listed in the confirmation message. The following [Password Reset Completed] Screen will be displayed.

```
GDAS: URL for reissuing a password₽
Thank you for using the GOSAT Data Archive Service (GDAS).4
This mail is to inform you about the URL for reissuing a password.4
Please click the URL below to make a temporal password issued.4
URL : https://data.gosat.nies.go.jp/usr/loginpasswordreset/PasswordResetPage/open.do?
id=862&key=cImQ4z7xrO≁
*Please note that this URL will expire in 7days from the delivery of this mail, so you are
expected to access the URL and get a temporal password within 7 days.)+
This message was automatically transmitted. Please do not reply to this address.4
a)
[Important]₽
If you received this mail in error, or if you have any inquiries about the system,↔
please mail to the address below.~
gosat-support@nies.go.jp≁
÷.
```

#### (6) [Password Reset Completed] Screen

A message indicating that the password reset procedure has been completed and that the reset password has been sent to the listed e-mail address will be displayed.

Covershave gave	(1 Close
GOSAT	This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
STEP1 Input registered e-mail address	STEP2 Issue initial password and send URL Send initial password
Your password was reset. A temporary password will be sent you b	y e-mail. Change the temporal password immediately.
Copyright(C) National Institu	ute for Environmental Studies. All Rights Reserved.

(1) [Close] Link : The link for closing the [Password Reset Completed] Screen.

<u>Important</u>: An e-mail listing the reset password will be sent. Access the [Change Password] Screen and change the password to the one listed in the e-mail.

# 9 Procedure for Downloading Products

There are two methods available for downloading GOSAT products, as shown below. Both of these methods are explained in this section.

- Downloading products with the use of the website
- Downloading products with the WGET command

## 9.1 Downloading Products with the Use of the Website

This section explains the procedure for downloading GOSAT products with the use of the website in the units in which they are provided.

## 9.1.1 Downloading Products Archived in Path Units

This section explains the procedure for downloading products archived in path units. The procedure for downloading the L2 cloud flag product is used here for explanatory purposes. (Other products archived in path units can be downloaded in the same way.)

(1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the path unit product (L2 cloud flag used here as an example) to move to the [Product Download (Path Unit)] Screen.

autorea care A		Download Docum	ents & Informatio		GU : User Informa			
TAZOL	Observing Sellers	Download Docum	iens e mormati	on		User Informati	on Logo	
		GOS Download Page	TI N	his site is ational In	operate stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	F	
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit	
	L1B	FTS L1B data	Daily Path	CAI	L1B	CAI L1B data	Path	
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data L2 cloud flag	Path	
	L2	L2 CO2 column amount (SWIR)	Monthly		L3	L3 global radiance distribution	Monthly	
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly	
FTS		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly	
		L2 CO2 profile (TIR)	Monthly					
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit	
		L3 global CO2 distribution (SWIR)	n Monthly	-	L4A	L4A global CO2 flux	Annual	
	L3	L3 global CH4 distribution	1			L4A global CH4 flux	Annual	
		(SWIR)	Monthly			L4B global CO2 distribution	Annual	

(1) List of Products : Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

#### (3) [Product Download (Path Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), a calendar listing the dates of observation ((2) below), and WGET list information ((5) below). Then click on any of the versions displayed in the observation date calendar ((3) below) to move across to the [Product Download Details (Path Unit)] Screen.

							GU :	
	PROJECT Commung SetTentie	Download	Document	s & Informati	on		User Information L	ogout
			GOS/	Т	his site is o	operated	e Service (GD) by GOSAT Project of Environmental Studies (NI	
L2 cloud File unit: Path Product format: Product unit: C Version: Please select th V02.00 (Mar	(The one pat : HDF AI frame	h's data are ar imber' which y	chived with ta ou would like			.(1	Product List (FTS) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR) L2 CO2 profile (TIR) L2 CH4 profile (TIR)	(4
Downloa	d (for E	ach Path	, VO2.00	D):		(2)	L3 global CO2 distribution (SWIR) L3 global CH4 distribution (SWIR)	
<< Year	< Month	2	020/03	Go	Month >	Year >>	Product List (CAI)	
			(YYYY/MM)	)			CAI L1B data CAI L1B+ data	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	L2 cloud flag	
1	2	3	4	5	6	7	L3 global radiance distribution L3 global reflectance distribution	
V02.00	V02.00	V02.00	V02.00	V02.00	voz.((3)	<b>V</b> 02.00	L3 NDVI	
8 V02.00	9	10	11	12	13	14	Product List (L4) L4A global CO2 flux L4A global CH4 flux L4B global CO2 distribution	
15	16	17	18	19	20	21	L4B global CO2 distribution	
22	23	24	25	26	27	28		
29	30	31	1	2	3	4		

Color scheme o	f the cale	ndar is as follows.
Path	:	42(*1),1,4,7,10,13,16,19,22,25,28,31,34,37,40
Path	:	43,2,5,8,11,14,17,20,23,26,29,32,35,38,41
Path	:	44,3,6,9,12,15,18,21,24,27,30,33,36,39,42(*1)
No colo	r :	No data
daily products of E namely on the sch < CAI observation September 30, 2 September 29, 2 <b>Download</b> You can download <b>WGET list (V02</b> Command line: wo Note: Wget list will	wn below, Jue Path G eduled dat period for 017 - April 019 - Febr via W( multiple fi .00) jet -i [PATI I be expire	the products for Path 42 archived in path unit are provided as the iroup, even though the actual observation dates are on the next day es of Pink Path Group. Path42 observed only on the date of Pink Path Group > 11, 2019,
list. Note: Please use v	vget versio	n 1.6.1 or later.
Back to selec	t produ	ct (6)

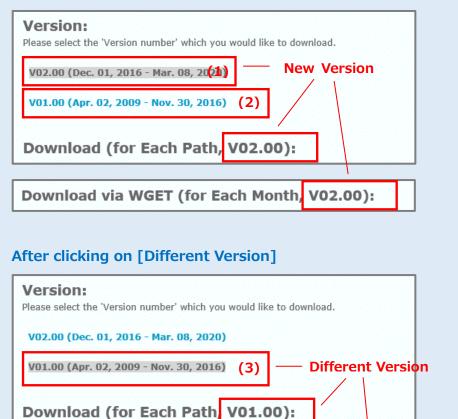
(1)	Product Information	:	Displays information on the selected product.
(2)	Observation Date	:	Displays product observation dates in a calendar
	Calendar		format.
(3)	[Version No.] Link	:	The link to the [Product Download Details (Path
			Unit)] Screen.
(4)	List of Products	:	The link to the [Product Download] Screen from
			which users can download products.
(5)	[WGET list] Link	:	The link to the WGET list file (one month's worth).
(6)	[Back to select	:	The link for returning to the [Download] Screen.
	Product] Link		

<u>Information</u>: The background colors on the calendar are color-coded into three groups of path numbers in alignment with the three-day rotation cycle of GOSAT observations. <u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

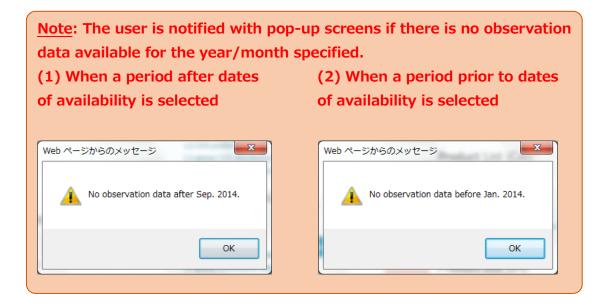
Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



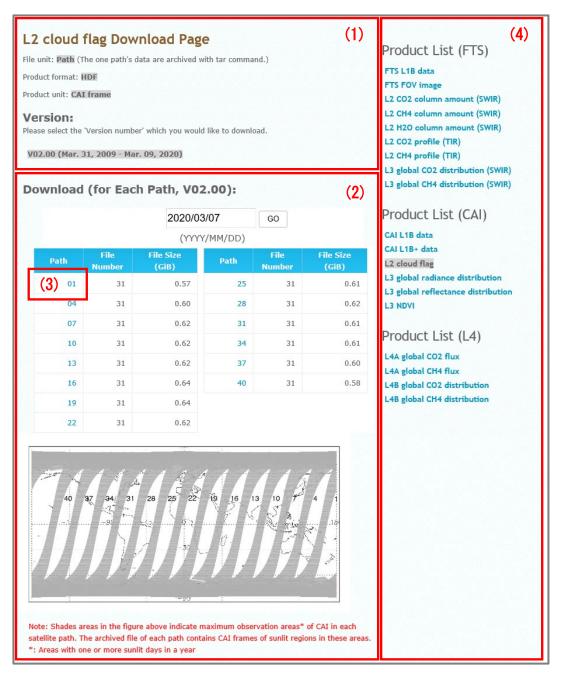
Download via WGET (for Each Month,	V01.00):

<u>Information</u> : Using the C	Calendar				
There are several metho	ds available f	or upda	ting the	observatior	dates
displayed on the calenda	ir.				
(1) [Go] : Moves t	o the year/m	onth en	tered.		
(2) [<< Year] : Moves t	o one year be	fore the	e month	displayed	
(3) [< Month] : Moves t	o one month	before t	the mont	h displayed	
(4) [Month >] : Moves to	o one month	after th	e month	displayed	
(5) [Year >>] : Moves to	o one year af	ter the	month di	splayed	
<< Year < Month	2014/02	Go	Month >	Year >>	
	(YYYY/MM)				



#### (4) [Product Download Details (Path Units)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), a list of observation date paths ((2) below), and WGET list information ((5) below). Then click on any of the path No. links ((3) below) to download the products.



Download via WGET (for Each Day, V02.00):	(5
You can download multiple files at a time using the following WGET list. WGET list (V02.00)	
Command line: wget -i [PATH_TO_FILE_LIST]http-user=[userID]http-passwd=[ Note: Wget list will be expired one week after its issue. After the expiration date succ download is not guaranteed. If an error occurs after the expiration date, please obtain list. Note: Please use wget version 1.6.1 or later.	essful
Back to select date	(6)

(1)	Product Information	:	Displays information on the selected product.
(2)	Path List	:	Displays a list of the observation date paths
			selected.
(3)	[Path No.] Link	:	The link to the files archived in path units.
(4)	List of Products	:	The link to the [Product Download] Screen from
			which users can download products.
(5)	[WGET list] Link	:	The link to the WGET list file (one day's worth).
(6)	[Back to select date]	:	The link for returning to the [Product Download
	Link		(Path Unit)] Screen.

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

<u>Information</u>: An example of downloading a product file archived in path units (Firefox) is shown below.

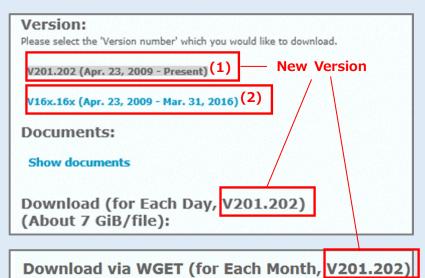
pening CAIL2CLDFLG_20140201_01_V02.00.tar
You have chosen to open:
CAIL2CLDFLG_20140201_01_V02.00.tar
which is: TAR file (577 MB)
from: https://data2.gosat.nies.go.jp
What should Firefox do with this file?
Save File
Do this <u>a</u> utomatically for files like this from now on.
OK Cancel

<u>Information</u>: Displaying products with multiple versions as a different version

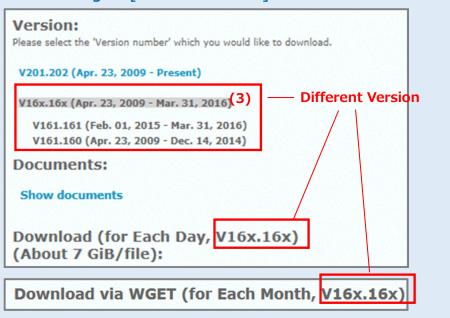
[New Version] ((1) below) is shown on the initial screen.

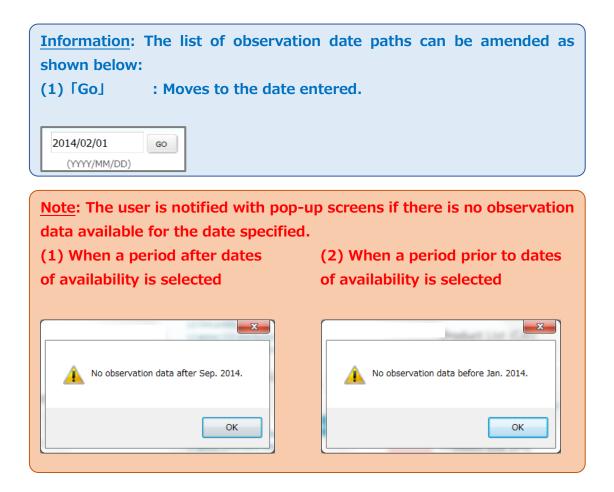
Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



#### After clicking on [Different Version]





# 9.1.2 Downloading Products Archived in Daily Units

This section explains the procedure for downloading products archived in daily units. The procedure for downloading the FTS L1B data product is used here for explanatory purposes. (Other products archived in daily units can be downloaded in the same way.)

## (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



## (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the daily unit product (FTS L1B data used here as an example) to move to the [Product Download (Daily Unit)] Screen.

	PROJECT Otaceving Settinitia	Download Document	ts & Informatio	on		GU : User Informati	ion Logout
		GOS	ті	nis site is	operate	ve Service (( ed by GOSAT Project or for Environmental Studi	f
		Download Page e 'Product name' whic Product Name	th you wou	uld like to	) downl	oad. Product Name	Unit
		FTS L1B data	Daily		L1B	CAI L1B data	Path
	L1B	FIS LIB data	Path		L1B+	CAI L1B+ data	Path
	L1B support	FTS FOV image	Daily				
		L2 CO2 column amount (SWIR)	Monthly	CAI	L2	L2 cloud flag L3 global radiance distribution	Path
		L2 CH4 column amount (SWIR)	Monthly		L3	L3 global reflectance distribution	Monthly
FTS	L2	L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly	_			
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
		L3 global CO2 distribution (SWIR)	Monthly		L4A	L4A global CO2 flux	Annual
	L3	L3 global CH4 distribution (SWIR)	Monthly	5		L4A global CH4 flux	Annual
(1)		(or any			L4B	L4B global CH4 distribution	Annual

#### (1) List of Products : Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

#### (3) [Product Download (Daily Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), a calendar listing the dates of observation ((2) below), and WGET list information ((5) below). Then click on any of the versions displayed in the observation date calendar ((3) below) to download products.

Greenhouse gases	T2HLORO	Download	Documents 8	t Information			GU : User Information Logou	+
GOSAT		100		T Dat Thi	ta Ar s site is c	perated	e Service (GDAS by GOSAT Project of r Environmental Studies (NIES)	5)
File unit: Dail File unit: Path Product forma Product unit: I Version: Please select t	FTS scene	a are archived ta are archived mber' which yo - Mar. 05, 20	with tar comm with tar comm u would like to 20)	and.)		(1)	(4) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR) L2 CO2 profile (TIR) L2 CH4 profile (TIR) L3 global CO2 distribution (SWIR) L3 global CH4 distribution (SWIR)	
(About 7	ad (for Ea 7 GiB/file 450 MiB/ < Month	for daily file for p	y data)		Month >	(2) Year >>	Product List (CAI) CAI L1B data CAI L1B+ data L2 cloud flag L3 global radiance distribution L3 global reflectance distribution L3 NDVI	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Product List (L4)	
1 V220.220	2 (3) <sup>20.220</sup>	3 V220.220	4 V220.220	5 V220.220	6	Z	L4A global CO2 flux L4A global CH4 flux L4B global CO2 distribution	
8	9	10	11	12	13	14	L4B global CH4 distribution	
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31	1	2	3	4		

Color scheme of t		
	he ca	lendar is as follows.
Path	:	42(*1),1,4,7,10,13,16,19,22,25,28,31,34,37,40(*2),43(*3)
Path	:	40(*2),43(*3),2,5,8,11,14,17,20,23,26,29,32,35,38,41
Path	:	41,44,3,6,9,12,15,18,21,24,27,30,33,36,39,42(*1)
No color	:	No data
from the scheduled of Due to the deviation Path 40 and 43 are a *2 (path 40) Apr. 23 Feb. 7, *3 (path 43) Apr. 23	late o from is belo , 2009 2017 , 2009	ly data over Path 42 have been made across the two consecutive days f Blue Path Group to that of Pink Path Group. the nominal orbit, the calendar color scheme of the FTS daily data over ww. 9 - Feb. 6, 2017 : Pink Path Group - present : Pink and Green Path Groups 9 - Nov. 7, 2016 : Pink and Green Path Groups - present : Green Path Group
Download v	ia V	VGET (for Each Month): (5)
You can download m WGET list	ultiple	files at a time using the following WGET list.
이 같은 것은 것은 것은 것은 것은 것을 가지 않는 것이다.	e exp	TH_TO_FILE_LIST]http-user=[userID]http-passwd=[password] ired one week after its issue. After the expiration date successful d. If an error occurs after the expiration date, please obtain a new wgel
승규가 가장 아파 귀엽 아파 가 가장 수 있는 것	et ver	sion 1.6.1 or later.

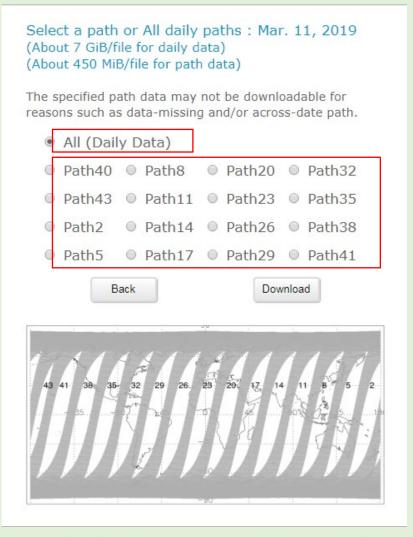
You can download multiple files at a time using the following WGET list. WGET list (V210.210) (List of one-day data archived with tar command) WGET list (V210.210) (List of one-path data archived with tar command)

- (1) Product Information : Disp
- : Displays information on the selected product.
- (2) Observation Date : Displays product observation dates in a calendarCalendar format.
- (3) [Version No.] Link
   : The link to the files archived in daily units. For FTS L1B data product, the link to the dialog box to download products archived in path units.
- (4) List of Products: The link to the [Product Download] Screen from which users can download products.
- (5) [WGET list] Link
  : The link to the WGET list file (one month's worth).
  (5') : For FTS L1B data product, there are two links to get WGET lists. The first one contains one-day data files, and the second one does one-path data files.

(6) [Back to select : The link for returning to the [Download] Screen.Product] Link

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

<u>Important</u>: For FTS L1B data product, the following dialog box will be displayed when (3) [Version No.] Link is clicked. Select a radio button, All (one-day data) or the other (one-path data), and click [Download] button then downloading will be started.



The specified path data may not be downloadable for reasons such as data-missing and/or across-date path.

<u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



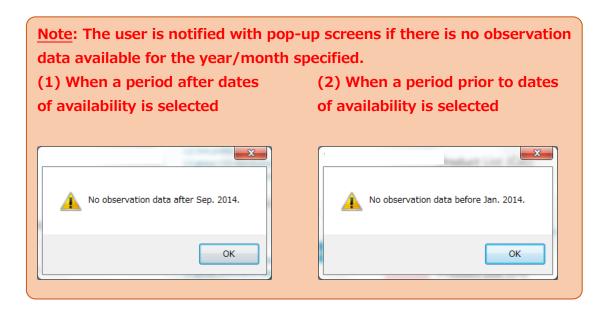
Download	via	WGET	(for	Each	Month,	V01.00):

**Information:** An example of downloading a product file archived in daily units (Firefox) is shown below.

Opening FTSL1B_20160801_201202.tar.gz	1
You have chosen to open:	
FTSL1B_20160801_201202.tar.gz	
which is: gzip (6.4 GB)	
from: https://data2.gosat.nies.go.jp	
What should Firefox do with this file?	
Open with Browse…	
Save File	
Do this <u>a</u> utomatically for files like this from now on.	
OK Cancel	
	4

<u>Information</u>: The background colors on the calendar are color-coded into three groups of path numbers in alignment with the three-day rotation cycle of GOSAT observations.

Informati	ion: Using	the Calendar				
There are	several m	ethods available	for upo	dating the	observati	on dates
displayed	on the cal	endar.				
(1) [Go]	: Mo	ves to the year/ı	nonth e	entered.		
(2) [<< Y	/ear] : Mov	ves to one year l	before t	he month	displayed	
(3) [< Mo	onth] : Mo	ves to one mont	h before	e the mon	th display	ed
(4) [Mon	th >] : Mo	ves to one mont	h after t	the month	displayed	ł
(5) [Year	>>] : Mov	ves to one year a	after the	e <mark>month d</mark>	isplayed	
<< Year	< Month	2014/02	Go	Month >	Year >>	
		(YYYY/MM)				
L						



# 9.1.3 Downloading Products Archived in Monthly Units

This section explains the procedure for downloading products archived in monthly units. The procedure for downloading the L2 CO2 column amount (SWIR) product is used here for explanatory purposes (Other products archived in monthly units can be downloaded in the same way.).

## (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the monthly unit product (L2 CO2 column amount (SWIR) used here as an example) to move to the [Product Download (Monthly Unit)] Screen.

COSA Company Antonio Download Documents & Informatio				GU : on User Information Logo				
				511		oser mornae	ion Logo	
		GOS Download Page e 'Product name' w	Tł N	nis site is ational In	operate stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	F	
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit	
FTS	L1B	FTS L1B data	Daily Path	CAI	L1B	CAI L1B data	Path	
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path	
	L2	L2 CO2 column amount (SWIR)	Monthly		L3	L3 global radiance distribution	Monthly	
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly	
		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly	
		L2 CO2 profile (TIR)	Monthly					
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit	
	L3	L3 global CO2 distribution (SWIR)	Monthly	-	L4A	L4A global CO2 flux	Annual	
		L3 global CH4 distribution	Monthly			L4A global CH4 flux	Annual	
		(SWIR)	Honeny			L4B global CO2 distribution	Annual	

(1) List of Products : Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

## (3) [Download Product (Monthly Unit)] Screen

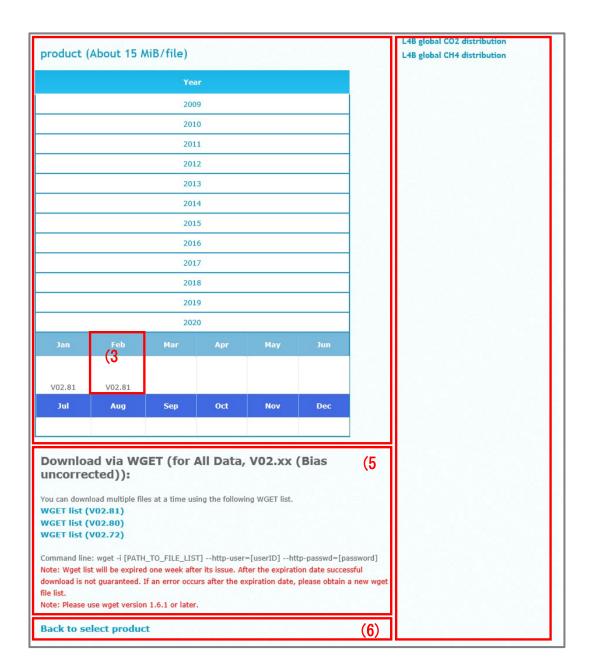
Displays details of the selected products (file unit, product format, version) ((1) below), the table of products ((2) below), and WGET list information ((4) below). Click on the product list [Version] to display a list of products.

	nload Docu	ments & Informatior	1		GU : User Information	Logout		
	GO	Thi	s site is operat	ted by G	OSAT Project of ironmental Studies			
L2 CO2 column am File unit: Monthly (The one month Product format: HDF Product unit: Daily Version relationship between "Bias	FTS FTS L2 (	Product List (FTS) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR)						
<b>Observation period</b> Apr. 23, 2009 - Feb. 29, 2020 Apr. 23, 2009 - Aug. 31, 2019	Input FTS           L1B           V210.210           V210.210	Bias uncorrected FTS SWIR L2 CO2 V02.81 V02.80	Bias corrected FTS SWIR L2 CO2 -	L2 L3	CO2 profile (TIR) CH4 profile (TIR) global CO2 distribution (SV global CH4 distribution (SV			
Apr. 23, 2009 - Nov. 24, 2018       V201.202       V02.72       V02.75         Please select the product type "V02.xx (Bias uncorrected)" or "V02.xx (Bias corrected)" which you would like to download.       Note: Product type shown in shade is selected as your download target.         V02.xx (Bias uncorrected) (Apr. 23, 2009 - Feb. 29, 2020)       V02.xx (Bias corrected) (Apr. 23, 2009 - Nov. 24, 2018)					Product List (CAI) CAI L1B data CAI L1B+ data L2 cloud flag L3 global radiance distribution L3 global reflectance distribution			
Download (for Each Available products depend on the user group, and then a list of mont Please click on the 'Year', and then product (About 15 MiB/	iser group. Plea hly data is disp a list of month	se click on the followin layed in a calendar sty	g title with the intend le. a calendar style.	L3 ): Jed (2) (2)	NDVI Oduct List (L4) A global CO2 flux A global CH4 flux B global CO2 distribution B global CH4 distribution			
Download via WGET uncorrected)): You can download multiple files at WGET list (V02.81) WGET list (V02.80)			(Bias (	4)				
WGET list (V02.72) Command line: wget -i [PATH_TO_ Note: Wget list will be expired one download is not guaranteed. If an file list. Note: Please use wget version 1.6.	week after its i error occurs aft	ssue. After the expirat	ion date successful					
Back to select product			(	5)				

(1)	Product I	nforma	tion	:	Displays information on the selected product.
(2)	[Product]	Link		:	Displays a list of files archived in monthly units.
(3)	List of Pr	oducts		:	The link to the [Product Download] Screen from
					which users can download products.
(4)	[WGET li	st] Linl	X	:	The link to the WGET list file (all periods).
(5)	[Back	to	select	:	The link for returning to the [Download] Screen.
	Product]	Link			

(4) [Download Product (Monthly Unit)] Screen (Product List Display)Click on the product list [Version] ((3) below) to download the product.

				GU :				
GOUSAT Coursing Selected Dow	vnload Docu	ments & Information	1		User Information	Logout		
	GC	Thi	ta Archiv s site is operated tional Institute fo	by GOS	AT Project of			
L2 CO2 column an File unit: Monthly (The one mon Product format: HDF Product unit: Daily Version: Version relationship between "Bia	th's data are arch	nived with tar command	d.)	FTS L1B FTS FOV L2 CO2 c L2 CH4 c	ct List (FTS) data			
Observation period	Input FTS	Bias uncorrected FTS SWIR L2 CO2	Bias corrected FTS SWIR L2 CO2	100000000000	rofile (TIR) rofile (TIR)			
Apr. 23, 2009 - Feb. 29, 2020	V210.210	V02.81	-	L3 global	CO2 distribution (SW	/IR)		
Apr. 23, 2009 - Aug. 31, 2019	V210.210	V02.80	-	L3 global	CH4 distribution (SW	/IR)		
Apr. 23, 2009 - Nov. 24, 2018	V201.202	V02.72	V02.75		ct List (CAI)			
would like to download. Note: Product type shown in sha V02.xx (Bias uncorrected) ( <i>I</i>	Please select the product type "V02.xx (Bias uncorrected)" or "V02.xx (Bias corrected)" which you							
Download (for Eacl Available products depend on the user group, and then a list of mo Please click on the 'Year', and the	user group. Plea nthly data is disp	se click on the followin layed in a calendar styl	g title with the intended e.	L4A glob	ct List (L4) al CO2 flux al CH4 flux			



(1)	Product Information	on	:	Displays information on the selected product.
(2)	[Product] Link			Displays a list of files archived in monthly units.
(3)	[Version] Link		:	Link to files archived in monthly units.
(4)	List of Products		:	The link to the [Product Download] Screen from
				which users can download products.
(5)	[WGET list] Link		:	The link to the WGET list file (whole period).
(6)	[Back to s	elect	:	The link for returning to the [Download] Screen.
	Product] Link			

<u>Important</u> : Use a file compression tool to extract and decompress downloaded products.
<u>Information</u> : An example of downloading a product file archived in monthly units (Firefox) is shown below.
Opening SWIRL2CO2_201602_V02.60.tar
You have chosen to open:
SWIRL2CO2_201602_V02.60.tar
which is: TAR file (16.6 MB)
from: https://data2.gosat.nies.go.jp
What should Firefox do with this file?
Open with     7-Zip GUI (default)
Save File
Do this <u>a</u> utomatically for files like this from now on.
OK Cancel

<u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



Download	via	WGET	(for Each	Month,	V01.00)
Download	via	WGET	(for Each	Month,	V01.00)

# 9.1.4 Downloading Products Archived in Annual Units

This section explains the procedure for downloading products archived in annual units. The procedure for downloading the L4A global CO2 flux product is used here for explanatory purposes (Other products archived in annual units can be downloaded in the same way.).

## (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



#### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the annual unit product (L4A global CO2 flux used here as an example) to move to the [Product Download (Annual Unit)] Screen.

нетолав далня 🔏	PROJECT	Download Documen	ts & Informatio	n		GU : User Informati	on Logo
TAROL	Otherwing Solderin	, Domitore Document				oser mornae	on Lobo
		GOS.	Tł N	nis site is ational In	operate stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	F
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit
	L1B	FTS L1B data	Daily Path		L1B	CAI L1B data	Path
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path
	L2	L2 CO2 column amount (SWIR)	Monthly	CAI	L2	L3 global radiance distribution	Monthly
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly
FTS		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
	192	L3 global CO2 distribution (SWIR)	Monthly		L4A	L4A global CO2 flux	Annual
	L3	L3 global CH4 distribution	Monthly	-		L4A global CH4 flux	Annual
		(SWIR)				L4B global CO2 distribution	Annual

(1) List of ProductsDisplays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

# (3) [Download Product (Annual Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), the table of products ((2) below), and WGET list information ((5) below). Then click on the product's [Observation Year] ((3) below) to download the product.

Countrary graw Countries Reference Down	load Documents 8	Information		GU : User Information Logout
	GOSA	This site	is operated	e Service (GDAS by GOSAT Project of r Environmental Studies (NIES).
L4A global CO2 flux File unit: Annual (The one year's d Product format: NetCDF / Text Product unit: Annual Version: Please select the 'Version number' v V02.06 (Jun. 01, 2009 - Oct. 33) V02.05 (Jun. 01, 2009 - Oct. 33)	ata are archived with ta which you would like to L <b>, 2017)</b>	r command.)	. (1	Product List (FTS) (4 FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR) L2 CO2 profile (TIR) L2 CO2 profile (TIR) L2 CH4 profile (TIR) L3 global CO2 distribution (SWIR) L3 global CH4 distribution (SWIR)
Download (for Each	Year, V02.06)	:	(2	Product List (CAI)
Observational Year	Start Date (MM/DD)	End Date (MM/DD)	File Size (MiB)	CAI L1B data CAI L1B+ data
(3 2009	06/01	12/31	4	L2 cloud flag
2010	01/01	12/31	7	L3 global radiance distribution L3 global reflectance distribution
2011	01/01	12/31	7	L3 NDVI
2012	01/01	12/31	7	Droduct List (L4)
2013	01/01	12/31	7	Product List (L4)
2014	01/01	12/31	7	L4A global CO2 flux L4A global CH4 flux
2015	01/01	12/31	7	L4B global CO2 distribution
2016	01/01	12/31	7	L4B global CH4 distribution
2017	01/01	10/31	6	
Download via WGET You can download multiple files at a WGET list (V02.06) Command line: wget -i [PATH_TO_F Note: Wget list will be expired one v download is not guaranteed. If an e list. Note: Please use wget version 1.6.1	time using the followin TLE_LIST]http-user= week after its issue. Aft rror occurs after the ex	g WGET list. [userID]http-passw er the expiration date :	successful	

(1)	Product Information	:	Displays information on the selected product.
(2)	2) [Product] Link		Displays a list of files archived in annual units.
(3)	) [Observation Year]		Link to files archived in annual units.
	Link		
(4)	List of Products	:	The link to the [Product Download] Screen from
			which users can download products.
(5)	[WGET list] Link	:	The link to the WGET list file (whole period).
(6)	[Back to select	:	The link for returning to the [Download] Screen.
	Product] Link		

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

<u>Information</u>: An example of downloading a product file archived in annual units (Firefox) is shown below.

L4ACO2_2012_V02.03.tar	gz	
which is: gzip (5.8 MB)		
from: https://data2.gosat.ni	es.go.jp	
What should Firefox do with this	file?	
○ Open with Browse…		
Save File		
Do this <u>a</u> utomatically for fi	les like this from now on.	

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Information: Switching Between Product Formats [netCDF] ((1) below) is displayed on the initial screen. Click on the [Text] ((2) below) link to display the product in the text format. [Initial Screen] L4A global CO2 flux Download Page File unit: Annual (The one year's data are archived with tar command.) Product format NetCOF (2) Product unit: Annual After [Text] has been clicked L4A global CO2 flux Download Page File unit: Annual Fi <u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



via	WGET	(for	Each	Month,	V01.00):
	via	via WGET	via WGET (for	via WGET (for Each	via WGET (for Each Month,

#### 9.2 Downloading Products with the WGET Command

This section explains the procedure for downloading GOSAT products with the use of the WGET command in the units in which they are provided.

#### 9.2.1 Downloading Products Archived in Path Units

This section explains the procedure for downloading products archived in path units with the use of the WGET command. The procedure for downloading the L2 cloud flag product is used here for explanatory purposes. (Other products archived in path units can be downloaded in the same way.)

#### (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



#### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the path unit product (L2 cloud flag used here as an example) to move to the [Product Download (Path Unit)] Screen.

4		Download Docu	ments & Informatio			GU : User Informati	an Ic
TARO	Otherwing Selfers	Download Docu	ments a informatio	on		User Informati	on Logo
		GO Download Page	TH N	nis site is ational In	operato stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	F
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit
	L1B	FTS L1B data	Daily Path		L1B	CAI L1B data	Path
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data L2 cloud flag	Path
	L2	L2 CO2 column amount (SWIR)	Monthly	CAI	LZ	L3 global radiance distribution	Monthly
		L2 CH4 column amount (SWIR)	Monthly		L3	L3 global reflectance distribution	Monthly
FTS		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
		L3 global CO2 distributio (SWIR)	on Monthly		L4A	L4A global CO2 flux	Annual
	L3	L3 global CH4 distributio	on	_		L4A global CH4 flux	Annual
		(SWIR)	Monthly			L4B global CO2 distribution	Annual

(1) List of Products : Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

#### (3) [Product Download (Path Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), a calendar listing the dates of observation, and WGET list information ((7) below). Click on the link to the WGET list ((7) below) in order to download the WGET list in monthly units. Change the observation year/month displayed on the calendar to download the WGET list for the subsequent month or year. To download WGET lists in daily units, click on the version name displayed on the observation date calendar ((3) below) to move to the [Product Download Details (Path Unit)] Screen.

	PROJECT	Download	Documents	at Informatio	on		GU : User Information Logout
			GOSA	TH	nis site is d	operated l	e Service (GDAS) by GOSAT Project of Environmental Studies (NIES).
L2 cloud File unit: Path ( Product format: Product unit: C Version: Please select the V02.00 (Mar.	(The one path HDF AI frame e 'Version nu	h's data are ar mber' which y	chived with tar			(1	(4 Product List (FTS) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR) L2 CO2 profile (TIR) L2 CO4 profile (TIR) L2 CH4 profile (TIR) L3 global CO2 distribution (SWIR)
Download	d (for Ea		<b>, VO2.00</b> 020/03	)): Go	Month >	(2) Year >>	L3 global CH4 distribution (SWIR) Product List (CAI)
Sun	Mon	Tue	(YYYY/MM) Wed		Fri	Sat	CAI L1B data CAI L1B+ data L2 cloud flag
1 V02.00	2 V02.00	3 V02.00	4 V02.00	5 V02.00	6 ۷٥ <mark>٤. <b>(</b>ع)</mark>	7 V02.00	L3 global radiance distribution L3 global reflectance distribution L3 NDVI
8 V02.00	9	10	11	12	13	14	Product List (L4) L4A global CO2 flux L4A global CH4 flux
15	16	17	18	19	20	21	L48 global CO2 distribution L48 global CH4 distribution
22	23	24	25	26	27	28	
29	30	31	1	2	3	4	

Color scheme of th	e calendar is as follows.		
Path	: 42(*1),1,4,7,10,13,16,19,2	2,25,28,31,34,37,40	
Path	: 43,2,5,8,11,14,17,20,23,26	,29,32,35,38,41	
Path	: 44,3,6,9,12,15,18,21,24,27	,30,33,36,39,42(*1)	
No color	: No data		
to the deviation from a scheduled date of Pink For the period shown daily products of Blue namely on the schedu < CAI observation per September 30, 2017 September 29, 2019 Download via WGET list (V02.00 Command line: wget - Note: Wget list will be download is not guara list.	below, the products for Path 42 archive Path Group, even though the actual ob led dates of Pink Path Group. iod for Path42 observed only on the da - April 11, 2019, - February 23, 2020 A WGET (for Each Mont	Path 42 has been made only d in path unit are provided a servation dates are on the n te of Pink Path Group > <b>h, VO2.00):</b> WGET list. IserID]http-passwd=[pase the expiration date successf	ly on the as the next days, (5) ssword] sful
Back to select p	roduct		(6)

(1)	Product Information	:	Displays information on the selected product.
(2)	Observation Date	:	Displays product observation dates in a calendar
	Calendar		format.
(3)	[Version No.] Link	:	The link to the [Product Download Details (Path
			Unit)] Screen.
(4)	List of Products	:	The link to the [Product Download] Screen from
			which users can download products.
(5)	WGET Download	:	Displays how to download products that use the
	Method		WGET list file.
(6)	[Back to select	:	The link for returning to the [Download] Screen.
	Product] Link		
(7)	[WGET list] Link	:	The link to the WGET list file (one month's worth).

<u>Information</u>: The background colors on the calendar are color-coded into three groups of path numbers in alignment with the three-day rotation cycle of GOSAT observations. <u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

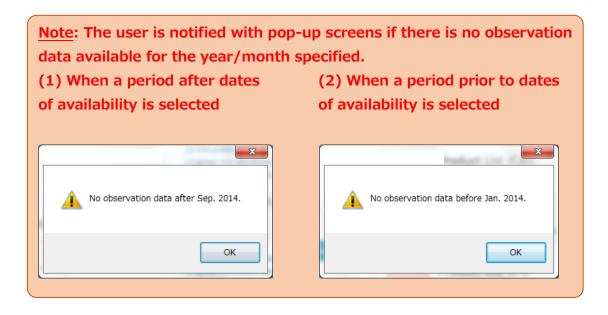
[Initial Screen]



Download via WGET (for Each Month, V01.00):

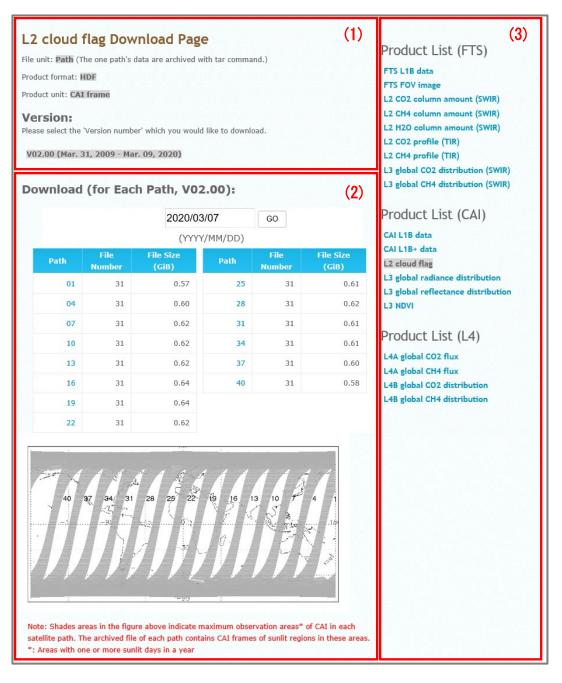
GOSAT Data Archive Service Operation Manual

<u>Information</u> : An example of shown below.	downloading a W	/GET list file (Fi	refox) is
Opening CAIL2CLDFLG_20140201_GU_V02.00.zip	x		
You have chosen to open:			
引 CAIL2CLDFLG_20140201_GU_V02.00.zij	,		
which is: Compressed (zipped) Folder (355	oytes)		
from: https://data2.gosat.nies.go.jp			
What should Firefox do with this file?			
Open with     7-Zip GUI	-		
Do this automatically for files like this from	now on.		
	Cancel		
ОК	Cancer		
Information: Using the Calen	dar		
There are several methods av	ailable for updati	ng the observati	on dates
displayed on the calendar.			
(1) [Go] : Moves to the	year/month ente	ered.	
(2) [<< Year] : Moves to one	year before the r	month displayed	
(3) [< Month] : Moves to one	month before the	e month display	ed
(4) [Month >] : Moves to one	month after the	month displayed	ł
(5) [Year >>] : Moves to one			
< Year < Month 201	4/02 Go	1onth > Year >>	
(Y)	YY/MM)		



#### (4) [Product Download Details (Path Units)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), a list of observation date paths, and WGET list information ((4) below). Then click on the link to the WGET list ((6) below) in order to download the WGET list.



Download via WGET (for Each Day, V02.00):	(4
You can download multiple files at a time using the following WGET list. WGET list (V02.00) (6)	
Command line: wget -i [PATH_TO_FILE_LIST]http-user=[userID]http-passwd= Note: Wget list will be expired one week after its issue. After the expiration date sur download is not guaranteed. If an error occurs after the expiration date, please obta list. Note: Please use wget version 1.6.1 or later.	cessful
Back to select date	(5)

- (1) Product Information : Displays information on the selected product.
- (2) Path List : Displays a list of the observation date paths selected. : The link to the [Product Download] Screen from (3) List of Products which users can download products. (4) WGET Download : Displays how to download products that use the Method WGET list file. (5) [Back to select date] : The link for returning to the [Product Download Link (Path Unit)] Screen. (6) [WGET list] Link
  - : The link to the WGET list file (one day's worth).

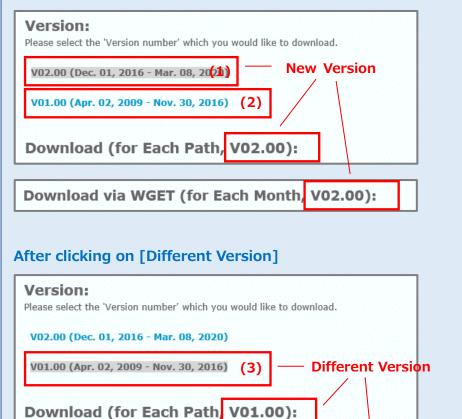
Information: An example of downloading shown below.	a WGET list file (Firefox) is
Opening CAIL2CLDFLG_20140201_GU_V02.00.zip	
You have chosen to open:	
🚮 CAIL2CLDFLG_20140201_GU_V02.00.zip	
which is: Compressed (zipped) Folder (355 bytes)	
from: https://data2.gosat.nies.go.jp	
What should Firefox do with this file?	
Open with     7-Zip GUI	
<u>S</u> ave File     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S     S	
Do this <u>a</u> utomatically for files like this from now on.	
OK Cancel	

<u>Information</u>: Displaying products with multiple versions as a different version

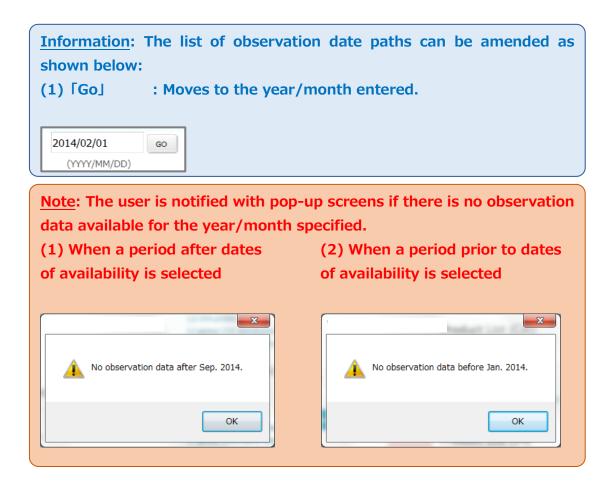
[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



Download	via	WGET	(for	Each	Month,	V01.00):



#### (5) Decompressing WGET List Files

Decompress the WEGET list file (Zip format) downloaded in procedures (3) and (4).

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

(6) Executing the WGET Command

Execute the following WGET command to download multiple files in bulk.

\$wget -i [wget list file decompressed in procedure (5)]
--http-user=[e-mail address used to log in]
--http-passwd=[password used to log in]

(7) Decompressing Compressed FilesDecompress the product archive files (tar or tar.gz format) downloaded in procedure (6).

# 9.2.2 Downloading Products Archived in Daily Units

This section explains the procedure for downloading products archived in daily units. The procedure for downloading the FTS L1B data product is used here for explanatory purposes. (Other products archived in daily units can be downloaded in the same way.)

## (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



#### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the daily unit product (FTS L1B data used here as an example) to move to the [Product Download (Daily Unit)] Screen.

	1000 IF 07					GU :	
TAZO	Chaerwing Selfield	Download Docume	ents & Informatio	on		User Informati	ion Logo
		GOS Download Page e 'Product name' wi	TI N	nis site is ational In	operate stitute	ve Service (( ed by GOSAT Project of for Environmental Stud	F
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit
	L1B	FTS L1B data	Daily Path		L1B	CAI L1B data	Path
	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path
		L2 CO2 column amount (SWIR)	Monthly	CAI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L3 global radiance distribution	Monthly
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly
FTS	L2	L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
		L3 global CO2 distribution			L4A	L4A global CO2 flux	Annual
		(SWIR)	Monthly		LHA	Little allahad out of the	
	L3		Monthly	-	LHA	L4A global CH4 flux L4B global CO2 distribution	Annual Annual

(1) List of Products : Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

#### (3) [Product Download (Daily Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), a calendar listing the dates of observation, and WGET list information ((4) below). Then click on the link to the WGET list ((6) below) in order to download the WGET list. Change the observation year/month displayed on the calendar to download the WGET list for the subsequent month or year.

	TOJUON	Download	Documents 8	t Information	i .		GU : User Information Logout
			GOSA	Thi	s site is c	operated	e Service (GDAS) by GOSAT Project of Environmental Studies (NIES).
	(One-day da (One-path da :: HDF TS scene he 'Version nu Apr. 23, 2009	ta are archived ta are archived	with tar comm with tar comm u would like to 20)	nand.)		(1)	(3) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR) L2 CO2 profile (TIR) L2 CH4 profile (TIR) L3 global CO2 distribution (SWIR) L3 global CH4 distribution (SWIR)
(About 7	GiB/file		y data)		Month >	(2) Year >>	Product List (CAI) CAI L1B data CAI L1B+ data L2 cloud flag L3 global radiance distribution L3 global reflectance distribution L3 NDVI
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Product List (L4)
1 V220.220	2 V220.220	3 V220.220	4 V220.220	5 V220.220	6	7	L4A global CO2 flux L4A global CH4 flux L4B global CH4 flux
8	9	10	11	12	13	14	L4B global CH4 distribution
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30	31	1	2	3	4	

ga televite etter	na sana na mangana	0750000	
Color s	scheme of	the ca	alendar is as follows.
	Path	:	42(*1),1,4,7,10,13,16,19,22,25,28,31,34,37,40(*2),43(*3)
	Path	:	40(*2),43(*3),2,5,8,11,14,17,20,23,26,29,32,35,38,41
	Path	:	41,44,3,6,9,12,15,18,21,24,27,30,33,36,39,42(*1)
	No color	:	No data
from the Due to th Path 40 a	scheduled ne deviation and 43 are a	date o i from as bele	
*2 (path		0.000.000	9 - Feb. 6, 2017 : Pink Path Group - present : Pink and Green Path Groups
	Nov. 8	, 2016	9 - Nov. 7, 2016 : Pink and Green Path Groups - present : Green Path Group WGET (for Each Month): (4)
You can ( WGET I		ultiple	e files at a time using the following WGET list.
Note: Wg download list.	get list will I d is not gua	be exp rantee	ATH_TO_FILE_LIST]http-user=[userID]http-passwd=[password] ired one week after its issue. After the expiration date successful ed. If an error occurs after the expiration date, please obtain a new wget sion 1.6.1 or later.
Back t	o select	prod	luct (5

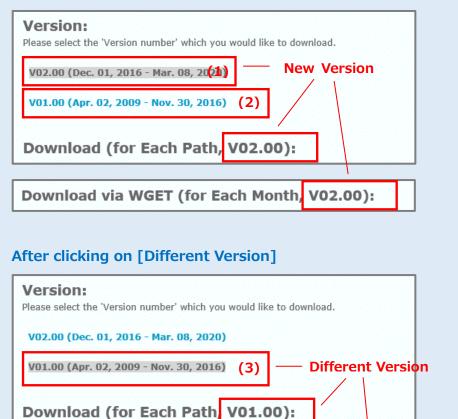
(1)	Product Information	:	Displays information on the selected product.
(2)	Observation Date	:	Displays product observation dates in a calendar
	Calendar		format.
(3)	List of Products	:	The link to the [Product Download] Screen from
			which users can download products.
(4)	WGET Download	:	Displays how to download products that use the
	Method		WGET list file.
(5)	[Back to select	:	The link for returning to the [Download] Screen.
	Product] Link		
(6)	[WGET list] Link	:	The link to the WGET list file (one month's worth).

<u>Information</u>: The background colors on the calendar are color-coded into three groups of path numbers in alignment with the three-day rotation cycle of GOSAT observations. <u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



Download via WGET (for Each Month, V	01.00):
--------------------------------------	---------

<b>Information:</b> An example of downloading a shown below.	WGET list file (Firefox) is
Opening FTSL1B_201608_GU_201202.zip	
You have chosen to open:	
FTSL1B_201608_GU_201202.zip	
which is: Compressed (zipped) Folder (374 bytes)	
from: https://data2.gosat.nies.go.jp	
What should Firefox do with this file?	
⊚ <u>O</u> pen with 7-Zip GUI	
Do this <u>a</u> utomatically for files like this from now on.	
OK Cancel	

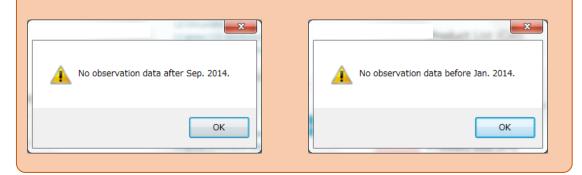
Information: Using	g the Calendar		
There are several	methods available for	updating the	observation dates
displayed on the c	alendar.		
(1) [Go] : M	oves to the year/mon	th entered.	
(2) [<< Year] : M	oves to one year befo	re the month	displayed
(3) [< Month] : M	oves to one month be	fore the mon	th displayed
(4) [Month >] : M	oves to one month af	er the month	n displayed
(5) [Year >>] : M	oves to one year afte	the month o	lisplayed
< Year < Month	2014/02	o Month >	Year >>
	(YYYY/MM)		

<u>Note</u>: The user is notified with pop-up screens if there is no observation data available for the year/month specified.

(1) When a period after dates

of availability is selected

(2) When a period prior to dates of availability is selected



#### (4) Decompressing WGET List Files

Decompress the WEGET list file (Zip format) downloaded in procedures (3).

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

(5) Executing the WGET Command

Execute the following WGET command to download multiple files in bulk.

\$wget -i [wget list file decompressed in procedure (4)]

--http-user=[e-mail address used to log in]

--http-passwd=[password used to log in]

(6) Decompressing Compressed Files

Decompress the product archive files (tar or tar.gz format) downloaded in procedure (5).

# 9.2.3 Downloading Products Archived in Monthly Units

This section explains the procedure for downloading products archived in monthly units. The procedure for downloading the L2 CO2 column amount (SWIR) product is used here for explanatory purposes (Other products archived in monthly units can be downloaded in the same way.).

## (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



#### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the monthly unit product (L2 CO2 column amount (SWIR) used here as an example) to move to the [Product Download (Monthly Unit)] Screen.

TAZOS	PROJECT Cause using SAGene	Download Docume	nts & Informatio	on		GU : User Informati	on Logo
		GOS Download Page	Tł N	nis site is ational In	operate stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit
	L1B	FTS L1B data	Daily Path	CAI	L1B	CAI L1B data	Path
FTS	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path
	L2	L2 CO2 column amount (SWIR)	Monthly		L2 L3	L2 cloud flag L3 clobal radiance distribution	Path
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly
		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
	L3	L3 global CO2 distribution (SWIR)	Monthly	-	L4A	L4A global CO2 flux	Annual
		L3 global CH4 distribution (SWIR)	Monthly			L4A global CH4 flux L4B global CO2 distribution	Annual
					L4B		100000000000000000000000000000000000000

(1) List of Products: Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

## (3) [Download Product (Monthly Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), the table of products ((2) below), and WGET list information ((4) below). Then click on the link to the WGET list ((6) below) in order to download the WGET list.

	nload Docu	ments & Information	1	GU : User Information Logout
	GC	Thi	s site is operate	d by GOSAT Project of pr Environmental Studies (NIES).
L2 CO2 column am File unit: Monthly (The one month Product format: HDF Product unit: Daily Version: Version relationship between "Bias	's data are arcl	nived with tar command	d.)	(3 Product List (FTS) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR)
Observation period	Input FTS L1B	Bias uncorrected FTS SWIR L2 CO2	Bias corrected FTS SWIR L2 CO2	L2 CO2 profile (TIR) L2 CH4 profile (TIR)
Apr. 23, 2009 - Feb. 29, 2020 Apr. 23, 2009 - Aug. 31, 2019 Apr. 23, 2009 - Nov. 24, 2018 Please select the product type "V0;	V210.210 V210.210 V201.202	V02.81 V02.80 V02.72	- - V02.75	L3 global CO2 distribution (SWIR) L3 global CH4 distribution (SWIR)
would like to download. Note: Product type shown in shade V02.xx (Bias uncorrected) (Ap. V02.xx (Bias corrected) (Apr.	or. 23, 2009 -	Feb. 29, 2020)		CAI L1B data CAI L1B+ data L2 cloud flag L3 global radiance distribution L3 global reflectance distribution L3 NDVI
Download (for Each Available products depend on the u user group, and then a list of mont Please click on the 'Year', and then product (About 15 MiB/	iser group. Plea hly data is disp a list of month	se click on the followin layed in a calendar styl	g title with the intended e.	Product List (L4) L4A global CO2 flux L4A global CH4 flux
Download via WGET uncorrected)):	(for All I	Data, VO2.xx (	(Bias (4)	$\mathbf{y}$
You can download multiple files at WGET list (V02.81)       (6)         WGET list (V02.72)       (7)         WGET list (V02.72)       (7)         Command line: wget -i [PATH_TO_Note: Wget list will be expired one	, FILE_LIST]hi week after its i	ttp-user=[userID]htt ssue. After the expirati	on date successful	
download is not guaranteed. If an file list. Note: Please use wget version 1.6.		er the expiration date,	please obtain a new wgo	et
Back to select product			(5)	

(1)	Product Information	:	Displays information on the selected product.
(2)	[Product] Link	:	Displays a list of files archived in monthly units.
(3)	List of Products	:	The link to the [Product Download] Screen from
			which users can download products.
(4)	WGET Download	:	Displays how to download products that use the
	Method		WGET list file.
(5)	[Back to select	:	The link for returning to the [Download] Screen.
	Product] Link		
(6)	[WGET list] Link	:	The link to the WGET list file (all periods).

# Information: An example of downloading a WGET list file (Firefox) is shown below.

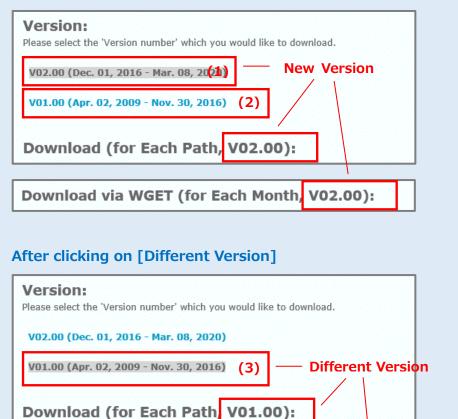
Opening SWIRL2CO2	_GU_V02.60.zip
You have chosen to	open:
SWIRL2CO2_	GU_V02.60.zip
which is: Com	pressed (zipped) Folder (321 bytes)
from: https://	data2.gosat.nies.go.jp
What should Firefo	x do with this file?
Open with	7-Zip GUI 🔹
Save File	
Do this <u>a</u> uto	matically for files like this from now on.
	OK Cancel

<u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



Download via WG	ET (for Each	Month,	V01.00):

#### (4) Decompressing WGET List Files

Decompress the WEGET list file (Zip format) downloaded in procedures (3).

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

(5) Executing the WGET Command

Execute the following WGET command to download multiple files in bulk.

\$wget -i [wget list file decompressed in procedure (4)]
--http-user=[e-mail address used to log in]
--http-passwd=[password used to log in]

(6) Decompressing Compressed Files

Decompress the product archive files (tar or tar.gz format) downloaded in procedure (5).

# 9.2.4 Downloading Products Archived in Annual Units

This section explains the procedure for downloading products archived in annual units. The procedure for downloading the L4A global CO2 flux product is used here for explanatory purposes (Other products archived in annual units can be downloaded in the same way.).

## (1) Moving to the [Download] Screen

Move to the [Download] Screen by logging into the system, as explained in section 8.1. If you are already logged in, click [Download] on the menu to move to the [Download] Screen.



#### (2) [Download] Screen

Displays a list of products that the logged-in user is able to download. Click on the annual unit product (L4A global CO2 flux used here as an example) to move to the [Product Download (Annual Unit)] Screen.

mentrosan gasan 🔏	PROJECT	Download Docum	nents & Informatio	n		GU : User Informati	ion Logo
TAROL	Otwerving SATURS	, Donnidad Docan	iene e mornae			oser mornae	ion Logo
		GO Download Page	Tł N	nis site is ational In	operate stitute	ve Service (C ed by GOSAT Project of for Environmental Studi	F
Sensor	Level	Product Name	Unit	Sensor	Level	Product Name	Unit
	L1B	FTS L1B data	Daily Path	CAI	L1B	CAI L1B data	Path
FTS	L1B support	FTS FOV image	Daily		L1B+	CAI L1B+ data	Path
	L2	L2 CO2 column amount (SWIR)	Monthly		L2	L3 global radiance distribution	Monthly
		L2 CH4 column amount (SWIR)	Monthly			L3 global reflectance distribution	Monthly
		L2 H2O column amount (SWIR)	Monthly			L3 NDVI	Monthly
		L2 CO2 profile (TIR)	Monthly				
		L2 CH4 profile (TIR)	Monthly	Sensor	Level	Product Name	Unit
	L3	L3 global CO2 distributio (SWIR)	n Monthly	-	L4A	L4A global CO2 flux	Annual
		L3 global CH4 distribution (SWIR)	n Monthly			L4A global CH4 flux	Annual

(1) List of Products : Displays a list of products that the user can download.

<u>Important</u>: The downloadable products will differ in alignment with the category of the logged-in user. See [13.2 Product Provision Formats] for further details.

<u>Information</u>: The Unit field displays the unit in which products are provided.

#### (3) [Download Product (Annual Unit)] Screen

Displays details of the selected products (file unit, product format, version) ((1) below), the table of products, and WGET list information ((4) below). Then click on the link to the WGET list ((6) below) in order to download the WGET list.

Countracue gave WHUSECT Down	load Documents 8	: Information		GU : User Information Logou
	GOSA	This site	is operated	e Service (GDAS by GOSAT Project of r Environmental Studies (NIES)
L4A global CO2 flux File unit: Annual (The one year's d Product format: NetCDE / Text Product unit: Annual Version: Please select the 'Version number' f V02.06 (Jun. 01, 2009 - Oct. 3 V02.05 (Jun. 01, 2009 - Oct. 3	ata are archived with ta which you would like to 1, 2017)	r command.)	(1	Product List (FTS) FTS L1B data FTS FOV image L2 CO2 column amount (SWIR) L2 CH4 column amount (SWIR) L2 H2O column amount (SWIR) L2 CO2 profile (TIR) L2 CH4 profile (TIR) L3 global CO2 distribution (SWIR) L3 global CH4 distribution (SWIR)
Download (for Each	Year, V02.06)	:	(2	Product List (CAI)
Observational Year	Start Date (MM/DD)	End Date (MM/DD)	File Size (MiB)	CAI L1B data CAI L1B+ data
2009	06/01	12/31	4	L2 cloud flag
2010	01/01	12/31	7	L3 global radiance distribution L3 global reflectance distribution
2011	01/01	12/31	7	L3 NDVI
2012	01/01	12/31	7	Product List (L4)
2013	01/01	12/31	7	L4A global CO2 flux
2014	01/01	12/31	7	L4A global CH4 flux
2015	01/01	12/31	7	L4B global CO2 distribution
2016	01/01	12/31	7	L4B global CH4 distribution
2017	01/01	10/31	6	
Download via WGET You can download multiple files at WGET list (V02.06) (6) Command line: wget -i [PATH_TO_ Note: Wget list will be expired one download is not guaranteed. If an e list.	Time using the following the f	g WGET list. [userID]http-passw er the expiration date :	successful	
Note: Please use wget version 1.6.3	1 or later.			

(1)	Product Information :		Displays information on the selected product.				
(2)	[Product] Link :		Displays a list of files archived in annual units.				
(3)	List of Products		The link to the [Product Download] Screen from				
			which users can download products.				
(4)	WGET Download	:	Displays how to download products that use the				
	Method		WGET list file.				
(5)	[Back to select	:	The link for returning to the [Download] Screen.				
	Product] Link						
(6)	[WGET list] Link	:	The link to the WGET list file (whole period).				

Information: An example of downloading a WGET list file (Firefox) is
shown below.
Opening L4ACO2_GU_V02.03.zip
You have chosen to open:
L4ACO2_GU_V02.03.zip
which is: Compressed (zipped) Folder (275 bytes)
from: https://data2.gosat.nies.go.jp
What should Firefox do with this file?
● Open with 7-Zip GUI
Save File
Do this automatically for files like this from now on.
OK Cancel

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<u>Information</u>: Switching Between Product Formats [netCDF] ((1) below) is displayed on the initial screen. Click on the [Text] ((2) below) link to display the product in the text format.

[Initial Screen]

# L4A global CO2 flux Download Page

File unit: Annual (The one year's data are archived with tar command.)

Product format: NetCDF / Text

Product unit: Annual

After [Text] has been clicked

# L4A global CO2 flux Download Page

File unit: Annual (The one year's data are archived with tar command.)

Product format: NetCDF / Text

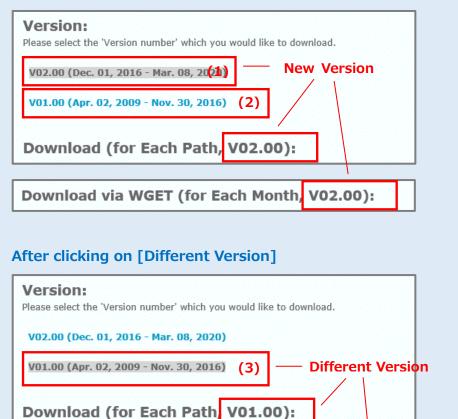
Product unit: Annual

<u>Information</u>: Displaying products with multiple versions as a different version

[New Version] ((1) below) is shown on the initial screen.

Click on the [Different Version] ((2) below) that needs to be displayed to display that version ((3) below).

[Initial Screen]



Download via WGET (for Each Month,	V01.00):

GOSAT Data Archive Service Operation Manual

#### (4) Decompressing WGET List Files

Decompress the WEGET list file (Zip format) downloaded in procedure (3).

<u>Important</u>: Use a file compression tool to extract and decompress downloaded products.

(5) Executing the WGET Command

Execute the following WGET command to download multiple files in bulk.

\$wget -i [wget list file decompressed in procedure (4)]
--http-user=[e-mail address used to log in]
--http-passwd=[password used to log in]

(6) Decompressing Compressed Files

Decompress the product archive files (tar or tar.gz format) downloaded in procedure (5).

# 10 Procedure for Downloading Information Related to GOSAT Products

This chapter explains the procedure for downloading information related to GOSAT products. The types of information provided is different for general users and authorized users. This chapter uses information provided to authorized users [authorized users only] for explanatory purposes.

#### 10.1 Documents & Information Screen

(1) Moving to the [Documents & Information] Screen

Click on [Documents & Information] on the [Download] Screen menu (see section 8.1(3)) to move to the [Documents & Information] Screen.



#### (2) [Documents & Information] Screen

Displays information related to GOSAT documents and products. Click on any of the available items to display the relevant information.

		RA :
COSAT CONVICT Download	Documents & Information	User Information Logout
	This site is ope	hive Service (GDAS) erated by GOSAT Project of ute for Environmental Studies (NIES).
Documents & Informat Please select the 'Title' which you would Note: Documents with the asterisk (*) a	like to display.	
Documents (Product Descriptions)		(1)
The period when there is no observation	ational data	(2)
Forced processing of unprocessed FTS	SWIR L1B data ( English 📴 , Japanese	<b>Image: 1</b> (3)
Technical Information		(4)
Observation Schedule		(5)
Submission of Observation Request	s	(6)
L4A Supplementary Data		(7)

(1)	[Documents]	:	Displays [Product Descriptions].				
(2)	(The period when there is	:	Displays [The period when there is no				
	no observational data]		observational data].				
(3)	[Forced processing of	:	Displays [Forced Processing of Unprocessed FTS				
	unprocessed FTS SWIR		SWIR L1B Data] (authorized users only).				
	L1B data]						
(4)	【Technical Information】	:	Displays [Technical Information].				
(5)	[Observational Schedule]	:	Displays [Observational Schedule].				
(6)	<b>(</b> Observational Request	:	Displays [Observational Request Submission]				
	Submission]		(authorized users only).				
(7)	[L4A Supplementary	:	Displays [L4A Supplementary Data] (authorized				
	Data		users only).				

#### 10.2 Documents (Product Descriptions)

Displays a list of products for which documents are provided ((1) below). Click on any product name ((2) below) to display the relevant product information. Or, click on any of the links to the product information ((3) below) to download the relevant files.

	roduct Descriptio	ns)			(
Please select	the 'Product name	' which you would	like to display.		-
►FTS L1B data	а		C	2)	
FTS L2 colum	nn amount (SWI	R)	•		
FTS L2 profil	le (TIR)				
FTS L3 globa	al distribution (S	WIR)			
CAI L1B data	а				
CAI L1B+ da	ita				
CAI L2 cloud	l flag				
CAI L3 globa	al radiance distril	oution			
CAI L3 globa	al reflectance dis	tribution			
CAI L3 NDVI	ſ				
L4A global C	:02 flux / L4B glo	bal CO2 distribu	ition		
L4A global C	.H4 flux / L4B glo	obal CH4 distribu	ition		
►L4A global C	.H4 flux / L4B glo	obal CH4 distribu	ltion		
►L4A global C	.H4 Mux / L4B gid	obal CH4 distribu	ition		Top of
►L4A global C	.H4 NUX / L4B gid	obal CH4 distribu	ition		Top of
	oduct Description		ition		Top of
Documents (Pro	oduct Description	is)			Top of
Documents (Pro		is)			Top of
Documents (Pro	oduct Description	is)			
Documents (Pro Please select to FTS L1B data *Geolocation	oduct Description the 'Product name'	<b>is)</b> which you would ind its countermea	like to display. Isure (English 🔯 )		(3)
Documents (Pro Please select t FTS L1B data *Geolocation Important Ca	oduct Description the 'Product name' Error in FTS L1B a aveats for FTS Leve	which you would which you would ind its countermea al 1B Product Band	like to display. asure (English ) 14 (This was corrected at the versi		(3)
Documents (Pro Please select to FTS L1B data *Geolocation	oduct Description the 'Product name'	<b>is)</b> which you would ind its countermea	like to display. Isure (English 🔯 )	Important Notes at Releasing	(3)
Documents (Pro Please select t FTS L1B data *Geolocation Important Ca	oduct Description the 'Product name' Error in FTS L18 a aveats for FTS Leve Obs. Periods	which you would which you would ind its countermea al 1B Product Band	like to display. asure (English ) 14 (This was corrected at the versi	Important Notes at Releasing V201.202 (Release Notes for Product)	(3)
Documents (Pro Please select t FTS L1B data *Geolocation Important Ca Version	oduct Description the 'Product name' the Frror in FTS L1B a aveats for FTS Leve (VYY/MW/DD) 2016/03/26-	which you would which you would ind its countermea al 1B Product Band	ike to display. ssure (English 👀) I 4 (This was corrected at the versi Product Format Descriptions	Important Notes at Releasing V201.202 (Release Notes for	(3)

- (1) Documents (Product Descriptions)
  - a) can be downloaded. me (FTS L1B : The link for displayi:
- (2) Product Name (FTS L1B Data, Etc.)
- : Displays a list of products for which documents can be downloaded.
- : The link for displaying a list of product documents.
- (3) Product Information
- : Displays a list of product documents.

#### 10.3 The period when there is no observational data

Displays the period when there is no observational data. Or, click on the link to download the relevant file.

The period when there is no observational data	
*The period when there is no observational data ( English POP )	(1

(1) The period : Displays the period when there is no observational data.

#### 10.4 Technical Information

Displays technical information on sensors ((1) below). Click on the title of any technical information ((2) below) to display the relevant information ((3) below) in detail. Or, click on any of the links to download the relevant files.

Technical Information	
r rechnicar finormation	(1)
	(1)
FTS	
FTS Radiometric Conversion for Band1-3	
▶ Instrument line shape function	
*GOSAT FTS Polarization Model Description (English EPE)	
*Estimated Correction Table for delta AT & delta CT Angles for geolocation error in FTS L1B (English 2021)	
CAI	
Spectral response function	
<u>رک</u>	
•	
Carakal and a first first	
Spectral response function	(3
Definitions:	
WL = Wavelength [nm]	
SRF = Normalized spectral response function [a.u.]	
SRF file format ex. SRF(B1):	
WL(B1), SRF(B1)	
we(or), ord (or)	
Caveats:	
April 23, 2009 (Algorithm Version: 006, Parameter Version: 006, Date: 090423)	
(1) SRF is evaluated by multiplying of filter optics transmittance and detector response.	
(2) Si CCDs are used for B1, B2 and B3, while InGaAs for B4.	
For SPE file download - Click bere WW	

- (1) Technical Information : Displays a list of technical information for each sensor.
- (2) Technical Information : The link for displaying the technical information on (Title) sensors.
- (3) Technical Information : Displays the technical information on sensors.

#### 10.5 Observational Schedule

Displays a list of observational operations. Or, click on any of the links to download the relevant files.

			is, satellite's flight paths, and the sampling modes under which the satelli observation mode, or other modes) during the period indicated. ration (English FOC, Japanese FOC)
Period	Observatio	onal Schedule	
2016/01 - 2016/06	English PDF	Japanese PDF	
2015/07 - 2015/12	English PDF	Japanese PDF	
2015/01 - 2015/06	English PDF	Japanese PDF	
2014/07 - 2014/12	English PDF	Japanese PDF	
2014/01 - 2014/06	English PDF	Japanese PDF	
2013/07 - 2013/12	English PDF	Japanese PDF	
2013/01 - 2013/06	English PDF	Japanese PDF	
2012/07 - 2012/12	English PDF	Japanese PDF	
2012/01 - 2012/06	English PDF	Japanese PDF	
2011/07 - 2011/12	English PDF	Japanese PDF	
2011/01 - 2011/06	English PDF	Japanese PDF	
2010/07 - 2010/12	English PDF	Japanese PDF	
2010/01 - 2010/06	English PDF	Japanese PDF	
2009/07 - 2009/12	English PDF	Japanese PDF	
2009/04 - 2009/06	English PDF	Japanese PDF	

- (1) Observational Schedule
- : Displays the observational schedules.

#### 10.6 Submission of Observational Requests (Authorized Users Only)

Displays the method of requesting observations ((1) below). Click on the title for each user category ((2) below) to display the relevant information ((3) below) in detail. Or, click on any of the links to download the relevant files.

nission of Observation R										
									C	1)
dates for RA researchers						le below.			•	·/
Table 1 Observation Perio				on Request	5					
Observation Period of your target area	Observat	to submit yo tion Request:	s							
Start and End Date (YYYY/MM/DD)		nd End Date (/MM/DD)								
2017/03/06 - 2017/04/0	2 2016/12/29	9 - 2017/01/18	8							
2017/04/03 - 2017/04/3	0 2017/01/26	5 - 2017/02/15	5							
2017/05/01 - 2017/06/0	4 2017/02/23	3 - 2017/03/19	5							
2017/06/05 - 2017/07/0	2 2017/03/30	0 - 2017/04/19	9							
2017/07/03 - 2017/08/0	6 2017/04/27	7 - 2017/05/17	7							
2017/08/07 - 2017/09/0	3 2017/06/01	1 - 2017/06/2:	1							
r experienced RA users										
NOT experienced RA u	sers		(2)							
				化的过去分词						1000
NOT experienced RA u	sers									~
r NOT experienced RA u	to submit FTS									3)
If you have no experience cosat-support@nies.co.jp) <sub>W</sub>	to submit FTS									
If you have no experience social-support@nies.co.jp) w observation requests.	e to submit FTS vith a template (									
If you have no experience cosat-support@nies.co.jp) <sub>W</sub>	e to submit FTS with a template o request(s)	csv file attach	hed. Pleas	e follow the						
If you have no experience soci-support@niec.so.p) w observation requests. 1) Trtle: FTS observation 2) Please fill out the follow a) Start date of the	e to submit FTS with a template of request(s) wing information observation: y	csv file attach n in the temp yyy/mm/dd	hed. Pleas	e follow the						
If you have no experience social support@nieces.p) w observation requests. 1) Title: FTS observation 2) Please fill out the follow a) Start date of the b) End date of the	e to submit FTS with a template of request(s) wing information observation: yy	csv file attach n in the temp yyy/mm/dd yy/mm/dd	hed. Pleas	e follow the	instruction					
If you have no experience soci-cupport@niec.so.p) w observation requests. 1) Title: FTS observation 2) Please fill out the follow a) Start date of the b) End date of the c) Target latitude in	e to submit FTS with a template of request(s) wing information observation: yy observation: yy a decimal degree	csv file attach n in the temp yyy/mm/dd yy/mm/dd es: The value	hed. Pleas plate csv fi e range is	e follow the le: [-90.0, 90.	instruction					
If you have no experience social support@nieces.p) w observation requests. 1) Title: FTS observation 2) Please fill out the follow a) Start date of the b) End date of the	to submit FTS ith a template ( request(s) ving information observation: yy observation: yy o decimal degree in decimal degree	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The val	hed. Pleas plate csv fi e range is lue range i	e follow the le: [-90.0, 90. is [-180.0,	instruction 0]. 180.0].	is below to j	prepare the	templat	te csv file for	, Yor
If you have no experience soci-cupport@niec.so.p) w observation requests. 1) Title: FTS observation 2) Please fill out the follow a) Start date of the b) End date of the c) Target latitude in d) Target longitude	e to submit FTS iith a template ( request(s) wing information observation: yry observation: yry o decimal degree in decimal degree in decimal degree o or A): "D" star	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The valu	hed. Pleas plate csv fi a range is lue range i nding and	e follow the le: [-90.0, 90. is [-180.0, "A" for asc	• instruction 0]. 180.0]. ending; "D'	's below to p	for SWIR,	and "D"	te csv file for or "A" for TII	, Yor
If you have no experience socat-support@nies.co.p) w observation requests. 1) Title: FTS observation 2) Please fill out the follow a) Start date of the b) End date of the c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma	e to submit FTS ith a template ( request(s) ving information observation: yry observation: yry o decimal degree in decimal degree in decimal degree or A): "D" start M): "H" stands aximum toleran	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value is for descer is for high (def ce for AT ang	hed. Pleas plate csv fi lue range is lue range i nding and fault) and gles in inte	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me ager degree	0]. 180.0]. ending; "D' dium; "M" s: Setting t	' will be set will be set o hese values	for SWIR, inly for description	and "D" ert area. I. If you	te csv file for or "A" for TII want to set I	r you R.
If you have no experience socat-support@niece.p) w observation requests. 1) Title: FTS observation 2) Please fill out the follow a) Start date of the b) End date of the c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or	e to submit FTS ith a template of request(s) wing information observation: yry observation: yry	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value is for descer is for high (def ce for AT ang rget, please s	hed. Pleas plate csv fi ue range is iue range i nding and fault) and gles in inte specify the	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me ager degree use values b	o]. 180.0]. ending; "D' dium; "M" s: Setting t setween -20	' will be set will be set o hese values ) and 20. A	for SWIR, ; nly for desc ; is optional positive val	and "D" ert area. I. If you	te csv file for or "A" for TII want to set I	r you R.
If you have no experience social support@niesco.p) w observation requests. 1) Title: FTS observation 1 2) Please fill out the follow a) Start date of the b) End date of the 6 c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma of AT angles to c and a negative n	e to submit FTS ith a template ( request(s) wing information observation: yr observation: yr observation: yr observation: yr observation: yr of decimal degre- in decimal degre- in decimal degre- in decimal degre- in decimal degre- in decimal degre- the stands aximum toleran observe your tar- neans backward	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value s for descer s for high (de/ ce for AT ang rget, please s d-looking. The	hed. Pleas plate csv fi a range is lue range i nding and fault) and gles in inte specify the e range of	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me gger degree ise values t these valu	0]. 180.0]. ending; "D' dium; "M" s: Setting t setween -20 es must be	' will be set will be set will be set o hese values ) and 20. A bigger than	for SWIR, ; nly for desv ; is optional positive val ; 5,	and "D" ert area. I. If you lue mean	te csv file for or "A" for TII want to set I ns forward-lo	r you R. imit
If you have no experience soci-cupport@niec.co.p) w observation requests. 1) Title: FTS observation 1 2) Please fill out the follow a) Start date of the b) End date of the c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma of AT angles to co	e to submit FTS ith a template ( request(s) wing information observation: yr observation: yr observation: yr observation: yr observation: degree in decimal degree or A): "D" star M): "H" stands aximum toleran observe your tar neans backwarce ervation request	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value is for descer is for high (def ce for AT ang rget, please s d-looking. The ts and inform	hed. Pleas plate csv fi ue range is nding and fault) and gles in inte specify the e range of y you the p	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me tiger degree tise values b i these values social constants of the second to th	0]. 180.0]. ending; "D' dium; "M" s: Setting t setween -20 es must be rdinates of	' will be set will be set o hese values ) and 20. A bigger than target point	for SWIR, : nly for desi is optional positive val 5, ts and time	and "D" ert area. I. If you lue mean frame v	te csv file for or "A" for TII want to set I ns forward-lo via e-mail. If	r you R. imit you
If you have no experience social support@niesco.p) w observation requests. 1) Title: FTS observation 1 2) Please fill out the follow a) Start date of the b) End date of the d c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma of AT angles to o and a negative n We will arrange your obse	e to submit FTS ith a template ( request(s) wing information observation: yry observation: yry o decimal degre- in decimal degre- tion of the template template template in the template template template template in the template template template template template template in the template	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value ce for AT ang rget, please s d-looking. The ts and inform uests, we will	hed. Pleas plate csv fi ue range is nding and fault) and gles in inte specify the e range of y you the p	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me tiger degree tise values b i these values social constants of the second to th	0]. 180.0]. ending; "D' dium; "M" s: Setting t setween -20 es must be rdinates of	' will be set will be set o hese values ) and 20. A bigger than target point	for SWIR, : nly for desi is optional positive val 5, ts and time	and "D" ert area. I. If you lue mean frame v	te csv file for or "A" for TII want to set I ns forward-lo via e-mail. If	r you R. imit: ookir you
If you have no experience cost-support@nies.co.p) w observation requests. 1) Title: FTS observation i 2) Please fill out the follow a) Start date of the b) End date of the d c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma of AT angles to c and a negative in We will arrange your obse agree with the arranged of e-mail after JAXA fixes the	e to submit FTS ith a template ( request(s) wing information observation: yr observation: yr observation: yr observation i yr observation i yr or A): "D" start M): "H" stands aximum toleran observe your tar neans backward ervation request bbservation request bbservation request	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value ce for AT ang rget, please s d-looking. The ts and inform uests, we will	hed. Pleas plate csv fi ue range is nding and fault) and gles in inte specify the e range of y you the p	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me tiger degree tise values b i these values social constants of the second to th	0]. 180.0]. ending; "D' dium; "M" s: Setting t setween -20 es must be rdinates of	' will be set will be set o hese values ) and 20. A bigger than target point	for SWIR, : nly for desi is optional positive val 5, ts and time	and "D" ert area. I. If you lue mean frame v	te csv file for or "A" for TII want to set I ns forward-lo via e-mail. If	r you R. imit: ookir you
If you have no experience socat-support@nieces.p) w observation requests. 1) Trtle: FTS observation 1 2) Please fill out the follow a) Start date of the b) End date of the c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma of AT angles to c and a negative n We will arrange your obse agree with the arranged of	e to submit FTS ith a template ( request(s) wing information observation: yr observation: yr observation: yr observation i yr observation i yr or A): "D" start M): "H" stands aximum toleran observe your tar neans backward ervation request beservation request	n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value ce for AT ang rget, please s d-looking. The ts and inform uests, we will	hed. Pleas plate csv fi ue range is nding and fault) and gles in inte specify the e range of y you the p	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me tiger degree tise values b i these values social constants of the second to th	0]. 180.0]. ending; "D' dium; "M" s: Setting t setween -20 es must be rdinates of	' will be set will be set o hese values ) and 20. A bigger than target point	for SWIR, : nly for desi is optional positive val 5, ts and time	and "D" ert area. I. If you lue mean frame v	te csv file for or "A" for TII want to set I ns forward-lo via e-mail. If	r you R. imit: ookir you
If you have no experience social support@niesco.p) w observation requests. 1) Title: FTS observation 1 2) Please fill out the follow a) Start date of the b) End date of the d c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and may of AT angles to c and a negative m We will arrange your obse agree with the arranged of e-mail after JAXA fixes the Example of the template of 1 Obs. start date O	e to submit FTS ith a template ( request(s) wing information observation: yr observation: yr observation: yr observation: yr of decimal degre- in decimal degre- in decimal degre- in decimal degre- in decimal degre- tion of A): "D" star • M): "H" stands aximum toleran baserve your tai neans backward ervation request observation request observation request baservation plar csv file B Dbs. end date	csv file attach n in the temp yyy/mm/dd yy/mm/dd es: The value rees: The value rees: The value rees: The value rees: The value res: The value	hed. Pleas plate csv fi a range is lue range i nding and fault) and gles in inte specify the e range of you the p handle th D congitude	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me ger degree ise values t these valu ossible coo eem as your <u>E</u> Direction	e instruction 0]. 180.0]. ending; "D' dium; "M" s: Setting t es must be rdinates of r requests. F Gain	' will be set will be set will be set o hese values 0 and 20. A bigger than target point We will info G Min. AT	for SWIR, i nly for desc is optional positive val 5. ts and time rm you the H Max AT	and "D" ert area. . If you lue mean frame v observa	te csv file for or "A" for TII want to set I ns forward-lo via e-mail. If	r you R. imit: ookir you
If you have no experience cost-support@nies.co.p) w observation requests. 1) Title: FTS observation 1 2) Please fill out the follow a) Start date of the b) End date of the c c) Target latitude in d) Target longitude e) Path direction (D f) Gain choice (H or g) Minimum and ma of AT angles to c and a negative n We will arrange your obse agree with the arranged of e-mail after JAXA fixes the Example of the template of A	e to submit FTS ith a template ( request(s) wing information observation: yr observation: yr observation: yr observation: yr in decimal degre- in decimal degre- in decimal degre- in decimal degre- tion decim	csv file attack n in the temp yyy/mm/dd es: The value rees: Th	hed. Pleas plate csv fi a range is lue range i nding and fault) and gles in inte specify the e range of handle th handle th	e follow the le: [-90.0, 90. is [-180.0, "A" for asc "M" for me iger degree is values b it hese values it hese values ossible coo nem as your <u>E</u> Direction D	instruction 0]. 180.0]. ending; "D' dium; "M" s: Setting t estween -2( es must be rdinates of r requests. F	' will be set will be set o hese values ) and 20. A bigger than target point We will info	for SWIR, i nly for desc is optional positive val 5, ts and time rm you the H Max. AT 20	and "D" ert area. I. If you lue mean frame v observa	te csv file for or "A" for TII want to set I ns forward-lo via e-mail. If	r you R. imit you

- (1) Submission of
- : Displays the method of requesting observations.

**Observation Requests** 

- Method of the requests for : The link for displaying the method of requesting users with each category observations for users with each category.
   (Title)
- (3) Method of the requests for : Displays the method of requesting observations users with each category for users with each category.

#### 10.7 L4A Supplementary Data (Authorized Users Only)

Displays a list of L4A product supplementary data. Or, click on any of the links to download the relevant files.



(1) L4A Supplementary Data : Displays a list of L4A supplementary data.

# 11 Procedure for Changing User Information

This chapter explains the procedure for changing user e-mail addresses (user ID), passwords, notification e-mail languages and other user information.

#### 11.1 Changing E-Mail Addresses (User IDs)

This section explains the procedure for changing e-mail addresses (user IDs).

#### (1) Moving to the [User Information] Screen

Click on [User Information] from the menu on the [Download] Screen (see section 8.1(3)) to move to the [User Information] Screen.



#### (2) [User Information] Screen

Displays the user information items that can be changed. Click on [E-mail address (user ID) change] ((1) below) to move to the [E-Mail Address Change] Screen.

COSAT CARACTER Download	Documents & Information	User Information Logout
	GOSAT Data Archive Se This site is operated by GOS National Institute for Enviro	SAT Project of
	/4)	
	E-mail address (user ID) change	
	(2 Password change	
	(3) E-mail language change	
	(4 Back	

(1)	[E-mail Add	ress (user	:	The link for moving to the [E-mail Address (user ID)
	ID) Change] L	link		Change] Screen.
(2)	[Password	Change]	:	The link for moving to the [Password Change]
	Link			Screen.
(3)	[E-mail	Language	:	The link for moving to the [E-mail Language
	Change] Link			Change] Screen.
(4)	[Back] Button		:	The button for returning to the [Download] Screen.

#### (3) [E-mail address (user ID) change] Screen

Enter the password and the new e-mail address to the form ((1) below) in order to change the e-mail address. Having entered the details, click on the [Update] Button ((2) below) to move to the [E-Mail Address Changed] Screen.

		ed by GOSAT Project of for Environmental Studies (NII
E-mail Address Change		
Current e-mail address Password	fip-gosat-test-gu@nies.go.jp For confirmation, please en	har your automatic analysis
New e-mail address	For commation, please en	ter your current password.
New e-mail address (for confirmation)		
	(3) Back Update (2	
	•	

- (1) E-mail Address Change Form
- : The form for entering the password and the new e-mail address.
- (2) [Update] Button
- (3) [Back] Button
- : The button for changing the e-mail address.
- : The button for returning to the [User Information] Screen.

E-mail Address Change	
Current e-mail address	fip-gosat-test@nies.go.jp
Password	For confirmation, please enter your current password.
New e-mail address	
New e-mail address (for confirmation)	
	Baok Update

#### (4) [E-Mail Address Changed] Screen

This completes the procedure for changing the e-mail address, and an e-mail notifying the user of this will be sent to the old and new e-mail addresses ((1) below).

	(3 Logout
	<b>GOSAT Data Archive Service</b> This site is operated by GOSAT project of National Institute for Environmental Studies (NIES).
	ddress (user ID) has been changed. ation to your new and old e-mail addresses.
	(2) Logout
Copyright(C) National Ins	titute for Environmental Studies. All Rights Reserved.

- E-mail Address : Displays the fact that the e-mail address has been changed. Changed
- (2) [Logout] Link : Displays the fact that the e-mail address has been changed.
- (3) [Logout] Link : Displays the fact that the e-mail address has been changed.

<u>Important</u>: An e-mail notifying the user of the e-mail address being changed will be sent to both the previous e-mail address and the new e-mail address when the change is executed.

<u>Note</u>: Logout without fail after changing the e-mail address. There are cases in which errors will occur if the user remains logged in with the original user ID.

#### 11.2 Changing Passwords

This section explains the procedure for changing passwords.

#### (1) Moving to the [User Information] Screen

Click on [User Information] from the menu on the [Download] Screen (see section 8.1(3)) to move to the [User Information] Screen.

			GU	:	
Constant Con	Download	Documents & Information		User Information	Logout

#### (2) [User Information] Screen

Displays the user information items that can be changed. Click on [Password change] ((2) below) to move to the [Password Change] Screen.

COSAT CONTRACT Download	Documents & Information	User Information Logout
	GOSAT Data Archive Se This site is operated by GOS National Institute for Enviro	SAT Project of
	(1) E-mail address (user ID) change	
	() Password change	
	(3) E-mail language change	
	(4 Back	

(1)	[E-mail Address (user ID)	:	The link for moving to the [E-mail Address (user
	Change] Link		ID) Change] Screen.
(2)	[Password Change] Link	:	The link for moving to the [Password Change]
			Screen.
(3)	[E-mail Language Change]	:	The link for moving to the [E-mail Language
	Link		Change] Screen.
(4)	[Back] Button	:	The button for returning to the [Download]
			Screen.

#### (3) [Password Change] Screen

Enter the old password and the new password to the form ((1) below) in order to change the password. Having entered the details, click on the [Update] Button ((2) below) to move to the [Password Changed] Screen.

	Download	This site is operate	User Information Logout <b>Ve Service (GDAS)</b> ed by GOSAT Project of for Environmental Studies (NIES).
Password (1)E-mail ad Current p New pass New pass	dress assword word word	fip-gosat-test-gu@nies.go.jp For confirmation, please ente	r your current password.
characters 1. Upper c 2. Lower c 3. Numera 4. Special	must be betwee : ase letters: A th ase letters: a th is: 0 through 9	- #\$%&'()*+,/:;<=>?@[\]^_`{ }~ )	two of the following types of

Password Change Form
 The form for entering the old password and new password.
 [Update] Button
 The button for changing the password.
 [Back] Button
 The button for returning to the [User Information] Screen.

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ormation: E	rrors will be highlighted in red.	
Password Change		
E-mail address	fip-gosat-test-gu@nies.go.jp	
Current password	For confirmation, please enter your current password.	
New password		
New password (for confirmation)		
	Back Update	
Decemends must be be	tween eight and twenty characters and contain at least two of the following types of	
characters:		
<ol> <li>Upper case letters:</li> <li>Lower case letters:</li> <li>Numerals: 0 through</li> <li>Special characters:</li> </ol>	A through Z a through z 19 (!"#\$%&'()*+,/:;<=>?@[\]^_`{ }~ )	
Note) Space characters		
Current password is requi	quired. red. firmation) is required.	

#### (4) [Password Changed] Screen

This completes the procedure for changing the password ((1) below).

Commenciane games PROJECT	Download	Documents & Information	User Information	Logout
			hive Service (GI rated by GOSAT Project of ite for Environmental Studies	
(1)		Password has been changed.		
		(2) Back		
	Copyright	C) National Institute for Environmental Studie:	s. All Rights Reserved.	

- (1) Password Changed
- (2) [Back] Button

: Displays the fact that the password has been changed.

: The button for returning to the [User Information] Screen.

#### 11.3 [E-mail Language Change] Screen

This section explains the procedure for changing the e-mail notification language.

#### (1) Moving to the [User Information] Screen

Click on [User Information] from the menu on the [Download] Screen (see section 8.1(3)) to move to the [User Information] Screen.

CONTRACTOR AND ADDRESS Download Documents & Information User Info	ation	Logout

#### (2) [User Information] Screen

Displays the user information items that can be changed. Click on [E-mail language change] ((3) below) to move to the [E-mail language change] Screen.

COSAT CARACTER CONTROL	Documents & Information	User Information Logout
	GOSAT Data Archive This site is operated b National Institute for E	
	(1 Definition of the second se	
	(2     • Password change       (3)     • E-mail language change	
	(4 Back	

(1)	[E-mail Address (user ID)	:	The link for moving to the [E-mail Address (user
	Change] Link		ID) Change] Screen.
(2)	[Password Change] Link	:	The link for moving to the [Password Change]
			Screen.
(3)	[E-mail Language Change]	:	The link for moving to the [E-mail Language
	Link		Change] Screen.
(4)	[Back] Button	:	The button for returning to the [Download]
			Screen.

#### (3) [E-mail language change] Screen

Displays the e-mail notification language eligible for changing. Check the details and then click on the [Update] Button ((2) below) to move to the [E-mail Language Changed] Screen.

CONTRACT AND A Documents & Information	User Information	Logout
GOSAT Data Archive Se This site is operated by GC National Institute for Enviro	SAT Project of	
E-mail Language Change (1)Current e-mail language Japanese New e-mail language English		
(3) Back Update (2)		

- E-mail Language Change : Displays the e-mail notification language eligible Details for changing.
   [Update] Button : The button for changing the e-mail notification
- (3) [Back] Button
   : The button for returning to the [User Information] Screen.

#### (4) [E-mail Language Changed] Screen

This completes the procedure for changing the e-mail notification language ((1) below).

CONSTANT CONTRACT Download	Documents & Information	User Information Logout
		ve Service (GDAS) ed by GOSAT Project of for Environmental Studies (NIES).
(1)	E-mail language has been changed to Englisi	n.
	(2 Back	
	•	

 E-mail Language
 Displays the fact that the e-mail notification language has been changed.
 [Back] Button
 The button for returning to the [User Information]

Screen.

# 12 Procedure for Browsing Other Information

This chapter explains the procedure for browsing other information provided on the GDAS website.

#### 12.1 [How to Use This Website] Screen

(1) Moving to the [How to Use This Website] Screen

Click on [How to Use This Website] from the submenu on the GDAS top Screen (see section 4.1) to move across to the [How to Use This Website] Screen.



(2) [How to Use This Website] Screen

Click on the link with the PDF file icon to download the operation manual.

GOSAT	T Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
How to use this website Download documents related to this web site.	Gallery
Instruction Manual (English POF, Japanese POF)	(1)

(1) [Instruction Manual] : The link to the instruction manual (PDF file). Link

### 12.2 [Data Users Handbook] Screen

(1) Moving to the [Data Users Handbook] Screen

Click on [Data Users Handbook] from the submenu on the GDAS top Screen (see section 4.1) to move across to the [Data Users Handbook] Screen.

periods as they are ready. In obtaining data products, please select the FTS LIB data (V205.205) from the "Download" page of GDAS. As the products of Ver.	Submenu
205.205 are released temporarily for evaluation, the version number will be	How to use this website
Maintenance Schedule Archives Update History	Data Users Handbook
Hamenance Schedule - Alemines - Speare History	Point of Contact / FAQ
How to obtain GOSAT data products from GDAS	Tools
•	Site Policy
Please click the login link at the top of this page and log in with the registered account	
(e-mail address) and password. A list of accessible GOSAT data products will be	Links

#### (2) [Data Users Handbook] Screen

Click on the link with the PDF file icon to download the Data Users Handbook.

GOSAT	Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
Data Users Handbook	Gallery
Data Users Handbook (English POF), Japanese POF)	(1

(1) [Data Users Handbook] : The link to the Data Users Handbook (PDF file). Link

#### 12.3 Point of Contact/FAQ Screen

#### (1) Moving to the [Point of Contact/FAQ] Screen

Click on [Point of Contact/FAQ] from the submenu on the GDAS top Screen (see section 4.1) to move across to the [Point of Contact/FAQ] Screen.

periods as they are ready. In obtaining data products, please select the FTS L1B data (V205.205) from the "Download" page of GDAS. As the products of Ver.	Submenu
205.205 are released temporarily for evaluation, the version number will be	How to use this website
Maintenance Schedule Archives Update History	Data Users Handbook
Maintenance Schedule Archives opdate history	Point of Contact / FAQ
How to obtain GOSAT data products from GDAS	Tools
Please click the login link at the top of this page and log in with the registered account	Site Policy
(e-mail address) and password. A list of accessible GOSAT data products will be	Links

#### (2) [Point of Contact/FAQ] Screen

Click on the link with the PDF file icon to download the FAQ file. Points of contact for inquiry purposes will also be displayed on the screen.

	Home	Documents & Information	Gallery	User Registration	Login
			s site is ope	rated by GOSAT F	
Point of Contac	t / FAQ				
		). If you have any questions, Iail addresses or phone numb	(1	Gallery	
Business hours : 10 a.m.	5 p.m. (JST)	, weekdays only.	(2)	- Carlor	
General Questions	E-mail :	gosat-prj1@nies.go.jp			
	TEL :	+81-29-850-2035	ing a start		
Research	E-mail :	gosat-prj1@nies.go.jp			and the second
Announcement	TEL :	+81-29-850-2035			
GOSAT	E-mail :	gosat-support@nies.go.jp		Lagida	
Product and Service	TEL :	+81-29-850-2568		BOSH Lee WELES CO. LEBON	16/01) Common Autoroge Simulated Concentration
GOSAT-2	E-mail :	gosat-2_desk@nies.go.jp		664	
Product and Service				No permitte	

- (1) [FAQ] Link
- : Link to the FAQ file.
- (2) Point of : Displays point of contact in accordance with the details of the contact inquiry.

#### 12.4 Tools Screen

#### (1) Moving to the [Tools] Screen

Click on [Tools] from the submenu on the GDAS top Screen (see section 4.1) to move across to the [Tools] Screen.



#### (2) [Tools] Screen

Displays explanations relation to the tools that are available for using GOSAT products. Click on any of the available items to display the relevant information.

GOSAT	Data Archive Service (GDAS This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES)
Tools Please select the 'Tool name' which you would like to display. Note: Documents with the asterisk (*) are provided only in Englisi	Gallery
<ul> <li>Viewer for observation data of GOSAT series</li> <li>GOSAT/GOSAT-2 Level 1 product reading toolkit</li> </ul>	
GOSAT Tools	(3)
ENVI (Updated GOSAT Importer)     HDFView	(4)
GOSAT FTS SWIR L2 Drawing Tool	(6) ESE 16 VELTO 10, ESERVICED Charac Accept

(1)	GOSAT FTS Level 1B	:	This application enables users to display simply or to
Product Support Tool			draw observation data on map for the products of the
			GOSAT and the GOSAT-2.
(2)	GOSAT/GOSAT-2	:	GOSAT/GOSAT-2 Level 1 product reading toolkit is a
	Level 1 product		programming library to read GOSAT/GOSAT-2 Level
	reading toolkit		1 product.

(3)	GOSAT Tools	:	The GOSAT Tools are designed for GOSAT data users
			to select CAI products and to extract datasets from
			FTS products already downloaded to each user's
			computer.
(4)	ENVI	:	The ENVI software enables the information displayed
			for GOSAT products to be browsed.
(5)	HDFView	:	Displays the site from which the tools for displaying
			GOSAT products can be downloaded.
(6)	GOSAT FTS SWIR	:	GOSAT FTS SWIR L2 Drawing Tool is a tool which
	L2 Drawing Tool		draws plots for the GOSAT FTS SWIR L2 products
			with IDL Virtual Machine.

#### 12.5 Site Policy Screen

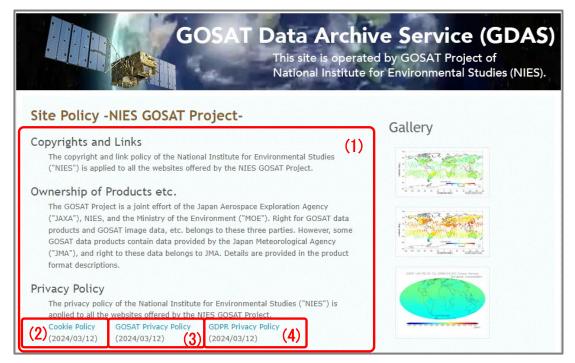
#### (1) Moving to the [Site Policy] Screen

From the submenu on the GDAS top screen (see section 4.1), click on the [Site Policy] Link to move to the [Site Policy] Screen.

periods as they are ready. In obtaining data products, please select the FTS L1B data (Y205.205) from the "Download" page of GDAS, As the products of Ver.	Submenu		
205.205 are released temporarily for evaluation, the version number will be	How to use this website		
Maintenance Schedule Archives Update History	Data Users Handbook		
	Point of Contact / FAQ		
How to obtain GOSAT data products from GDAS	Tools		
	Site Policy		
Please click the login link at the top of this page and log in with the registered account			
(e-mail address) and password. A list of accessible GOSAT data products will be	Links		

#### (2) Reviewing the Site Policy

On the [Site Policy] Screen, review the site policy ((1) below). Also, click on each link in the Privacy Policy section to move to the respective policy screen (new screen) ((2)-(4) below). After reviewing, close the screen with the close button on the web browser.



(1)	Site Policy	:	Displays the Site Policy.
(2)	[Cookie Policy] Link	:	The link to the [Cookie Policy] Screen (new screen).

#### GOSAT Data Archive Service Operation Manual

(3)	[GOSAT Privacy	:	The link to the [GOSAT Privacy Policy] Screen (new
	Policy] Link		screen).
(4)	[GDPR Privacy	:	The link to the [GDPR Privacy Policy] Screen (new
	Policy] Link		screen).

#### 12.6 Cookie Policy Screen

#### (1) Moving to the [Cookie Policy] Screen

On the [Site Policy] Screen, click on the [Cookie Policy] Link in the Privacy Policy section (see section 12.5) to move to the [Cookie Policy] Screen (new screen).

vacy Policy			Con and and
	cy of the National Institute e websites offered by the I	e for Environmental Studies ("NIES") is NIES GOSAT Project.	
Cookie Policy	GOSAT Privacy Policy	GDPR Privacy Policy	70 30 10 10 10 10 10 10 10 10 10 10 10 10 10
(2024/03/12)	(2024/03/12)	(2024/03/12)	

(2) Reviewing the Cookie Policy

Г

On the [Cookie Policy] Screen, review the cookie policy ((1) below). Click on [Close] ((2) below) to close the screen after reviewing.

(2) Close
Data Archive Service (GDAS) This site is operated by GOSAT Project of National Institute for Environmental Studies (NIES).
(1)
d to as "the Site") uses the following cookies. Cookies are only used to e Site and to maintain the processing states across multiple pages. wrough the use of cookies.
1)
장님이 많은 것 같은 것
ne browser settings at their own risk. If you stop the function of cookies, operly.

(1)	Cookie Policy	:	Displays the cookie policy.
(2)	[Close] Link	:	The link for closing the [Cookie Policy] Screen

#### 12.7 GOSAT Privacy Policy Screen

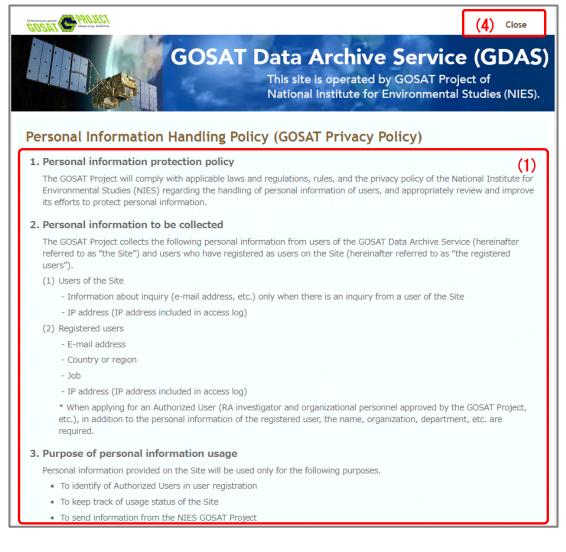
#### (1) Moving to the [GOSAT Privacy Policy] Screen

On the [Site Policy] Screen, click on the [GOSAT Privacy Policy] Link in the Privacy Policy section (see section 12.5) to move to the [GOSAT Privacy Policy] Screen (new screen).



#### (2) Reviewing the GOSAT Privacy Policy

On the [GOSAT Privacy Policy] Screen, review the GOSAT Privacy Policy ((1) below). Click on [Close] ((4) below) to close the screen after reviewing.



4. Use of personal information (1)
Personal information provided on the Site will not be disclosed, provided, sold, or shared with third parties without the prior consent of the user himself/herself, except in the following cases. We will not disclose or provide it to third parties beyond the necessary scope.
When it is necessary to provide personal information to third parties in accordance with laws and regulations
When the consent of the user himself/herself has been obtained to provide personal information to third parties
• When outsourcing work related to the processing of personal information collected in each procedure to contractors, etc. within the scope of the purpose of use
5. Rights of users
The user has the following rights.
• The user has the right to withdraw his/her consent to this Personal Information Handling Policy at any time.
<ul> <li>The user has the right to lodge a complaint with an information protection supervisory authority regarding the handling of personal information on the Site.</li> </ul>
Personal information provided can be corrected or deleted at the user's will.
6. Management of personal information
If the user wishes to confirm, correct, or delete his/her personal information, we will respond promptly after confirming the identity of the user. If the user wishes to confirm, correct, or delete his/her personal information, please contact us by e-mail at the contact for the Site ("Point of Contact"—"General Questions"). 7. Consent for provision of personal information
Depending on the law of the user's place of residence, the guardian's consent may be required when providing personal information of children. Please check the law of the user's place of residence, and if the age of the user is old enough to require a guardian's consent, please obtain a guardian's consent. (If you do not understand the law, please show this screen to your guardian(s) for consultation.) If you reside within the EEA (European Economic Area), please see the GDPR Privacy Policy.
If you have any comments or questions regarding the handling of personal information, please contact us by e-mail at the <u>contact for the Site ("Point of Contact"—"General Questions"</u> ). (2)
Please read the above Personal Information Handling Policy and use the Site only if you agree to provide your personal information.
8. Revision of the Personal Information Handling Policy
When we revise the Personal Information Handling Policy, we will announce the revision and clearly state the revision date on the Site.
Revised on March 12, 2024
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(1)	GOSAT Privacy	:	Displays the GOSAT Privacy Policy.
	Policy		
(2)	[the contact for the	:	The link to the [Point of Contact/FAQ] Screen (new
	Site ("Point of		screen)
	Contact"—"General		
	Questions")] Link		
(3)	[the GDPR Privacy	:	The link to the [GDPR Privacy Policy] Screen (new
	Policy] Link		screen).
(4)	[Close] Link	:	The link for closing the [GOSAT Privacy Policy]
			Screen.

#### 12.8 GDPR Privacy Policy Screen

#### (1) Moving to the [GDPR Privacy Policy] Screen

On the [Site Policy] Screen (see section 12.5), click on the [GDPR Privacy Policy] Link in the Privacy Policy section to move to the [GDPR Privacy Policy] Screen (new screen).

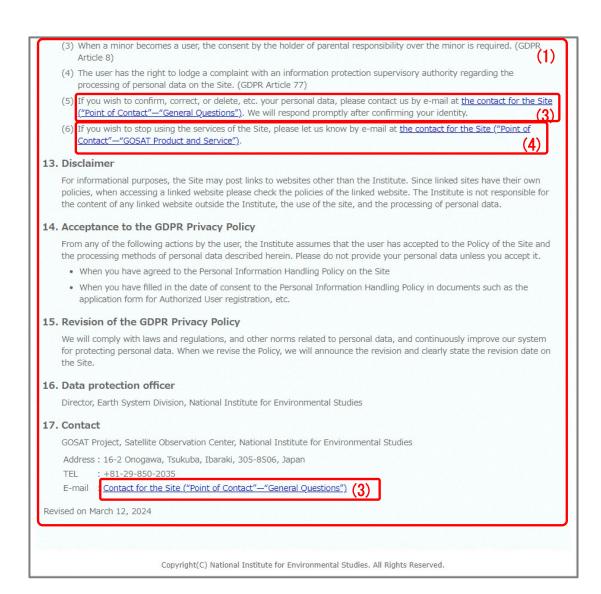
Privacy Policy				Southart Execution	
	cy of the National Institute e websites offered by the		es ("NIES") is	CTV 2	
Cookie Policy (2024/03/12)	GOSAT Privacy Policy (2024/03/12)	GDPR Privacy Policy (2024/03/12)			

#### (2) Reviewing the GDPR Privacy Policy

On the [GDPR Privacy Policy] Screen, review the GDPR Privacy Policy ((1) below). Click on [Close] ((5) below) to close the screen after reviewing.

GUINTUM JANK CONTRACT	(5) Close
GOSAT Data Archive Service This site is operated by GOSAT Proje National Institute for Environmental	ect of
GDPR Privacy Policy	
1. Protection and control of personal data National Research and Development Agency/National Institute for Environmental Studies (hereinafter refer Institute") provides services, such as information dissemination and inquiry reception, on the GOSAT Data (hereinafter referred to as "the Site"). We collect the personal data described below within the necessary s smooth operation of the services provided on the Site. The collected personal data will be processed appro- scope of the purpose of use.	Archive Service cope for the
2. Definition of terms	
The definitions of terms in the GDPR Privacy Policy (hereinafter referred to as "the Policy") are as follows:	
<ul> <li>GDPR Privacy Policy: The privacy policy provided on the Site based on the EU General Data Protection the relevant privacy laws and regulations including the enforcement laws and regulations of each court</li> </ul>	
<ul> <li>Personal data: Information about an identified or identifiable natural person ("data subject"). On the S about individuals such as e-mail addresses that is necessary for the operation of the Site.</li> </ul>	ite, information
<ul> <li>Processing: Operations performed on personal data (data collection, recording, editing, storage, modification/amendment, recovery, reference, use, disclosure/provision, alignment, restriction, deletion</li> </ul>	on, etc.).
3. Scope of application	
The Policy applies to users of the Site who live or reside within the EEA (European Economic Area).	
4. Personal data to be collected	
The Institute collects the following personal data about users of the Site and users who have registered as (hereinafter referred to as "the registered users").	users on the Site
(1) Users of the Site	
- Information about inquiry (e-mail address, etc.) only when there is an inquiry from a user of the Site	2
- IP address (IP address included in access log)	

(2) Registered users
- E-mail address (1)
- Country or region
- Job
- IP address (IP address included in access log)
* When applying for an Authorized User (RA investigator and organizational personnel approved by the GOSAT Project,
etc.), in addition to the personal data of the registered user, the name, organization, department, etc. are required.
5. Purpose and legal basis of personal data processing and usage
When processing and using personal data, the purpose of use should be clarified in accordance with Article 6.1 (a) of the GDPR, and personal data will be processed if the consent of the user himself/herself is obtained in advance and in accordance with the legal basis stipulated in Article 6.1 (b) to (f) of the GDPR. However, with regard to Article 6.1 (f) of the GDPR, personal data shall be used within the scope of the following legitimate interests.
(1) Depending on the response to inquiries to the Site and the content of the inquiries, transfer to relevant departments in the Institute, and relevant ministries and agencies (information on inquiries)
(2) Security measures for the server that operates the Site (IP address)
(3) User authentication when using the services of the Site
(4) Notification by e-mail from the electronic service of the Site
(5) Necessary communications with the registered users (e-mail address)
(6) Implementation of reports, etc. based on requests from public institutions (e-mail address, country or region)
6. Impact on users refusing to provide personal data
In order to obtain the data provided on the Site, you must register as a user. If you refuse to provide your personal data and
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 Site may be disclosed, provided, or shared outside the Site for the following purposes.
(1) In order to achieve the purposes described in the Policy, we may disclose, provide, or share the personal data of users with relevant ministries and agencies, etc. When sharing personal data with relevant ministries and agencies, etc., we will take the measures prescribed in Article 26 of the GDPR and disclose the data to the user himself/herself.
(2) In complying with EU law or the laws of EU/EEA member countries, we will disclose and provide the personal data of users to the authorities and the other disclosure and provision parties stipulated by the law.
8. Site security (SSL description)
The 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. About cookies (purpose of use)
The Site uses cookies to switch between Japanese and English notation on the Site and to maintain the processing status across multiple pages. Please see our cookie policy for more information. (2)
10. Transfer of personal data outside the EU
The Institute will not transfer the personal data it holds to other countries.
11. Retention period of personal data
Personal data registered on the Site will be stored for up to 6 months after the end of the services of the Site in order to respond to inquiries from users.
12. Rights of users of the Site, etc.
(1) The user has the following rights regarding the personal data held by the Institute.
A) Right to obtain all necessary information regarding data processing (GDPR Article 13, GDPR Article 14)
B) Right to inquire about information (GDPR Article 15)
C) Right to correct information (GDPR Article 16)
D) Right to erase information "Right to be forgotten" (GDPR Article 17)
E) Right to restrict information processing (GDPR Article 18)
F) Right to object to information processing (GDPR Article 21)
G) Right to data portability (GDPR Article 20)
(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. (GDPR Article 7, Paragraph 3)



(1)	GDPR Privacy	:	Displays the GDPR Privacy Policy.
	Policy		
(2)	[cookie policy] Link	:	The link to the [Cookie Policy] Screen (new screen).
(3)	[Contact for the	:	The link to the [Point of Contact/FAQ] Screen (new
	Site ("Point of		screen).
	Contact"—"General		
	Questions")] Link		
(4)	[the contact for the	:	The link to the [Point of Contact/FAQ] Screen (new
	Site ("Point of		screen).
	Contact"—"GOSAT		
	Product and		
	Service")] Link		

#### GOSAT Data Archive Service Operation Manual

(5) [Close] Link : The link for closing the [GDPR Privacy Policy] Screen.
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# 13 Miscellaneous Precautions

#### 13.1 User Categories

The GDAS user categories are shown in Table 13.1.

No.	User	User Registration	Description	
	Category	Туре		
1	PRJ	Authorized User	NIES employees involved with the GOSAT	
			Project	
2	RACal		Registered researchers authorized to	
			download FTS L1B calibration data	
3	RA		Registered researchers, researchers in	
			affiliated organizations	
4	GU	General User	All other general users	

Table 13.1 GDAS User Categories

The GDAS user categories are interactive with the GUIG user categories. The GDAS user category and GUIG user category interaction levels are shown in Table 13.2.

No.	GDAS User Category	GUIG User Category	Remarks
1	PRJ	OPE, PSN	
2	RACal	CalData	
3	RA	RAMo, RAplus, RAplusCoI, RAstar, RAstarCoI, AO1, AO1star, AO1starCoI, ST, PS	All provision groups except OPE, PSN, CalData, GU.
4	GU	GU	

Table 13.2 GDAS User Category and GUIG User Category Interaction

The highest level of authority (PRJ > RACal > RA > GU) is valid for users with multiple accounts on GUIG.

This means that the latest user category for the final date of update is validated if the highest level of authority for the GDAS user category has acquired multiple GUIG accounts including RA and RA is the highest level of authority for the GDAS user category.

Also, if the GUIG account with the highest level of GDAS user category authority has been frozen, the next user category with the highest level of authority is validated.

#### 13.2 Product Provision Formats

The GOSAT products provided by GDAS differ in accordance with the user category. The archive format and product format also differ for the products provided. The unit, user category, product format and archive format for each product provided are shown in Table 13.3.

No.	Product Provided	Unit	User Category	Product Format	Archive Format
1	FTS L1A data	Daily	PRJ	HDF5 (non-compress ed)	tar.gz
2	FTS L1B data	Daily, Path	All user categories	HDF5 (non-compress ed)	tar.gz
3	FTS L1B calibration data	Daily	PRJ, RACal	HDF5 (non-compress ed)	tar.gz
4	FTS FOV image	Daily	All user categories	png	tar.gz
5	L2 CO2 column amount (SWIR)	Monthly	All user categories	HDF5 (Compressed)	tar
6	L2 CH4 column amount (SWIR)	Monthly	All user categories	HDF5 (Compressed)	tar
7	L2 H2O column amount (SWIR)	Monthly	All user categories	HDF5 (Compressed)	tar
8	PPDF-S CO2 data	Monthly	PRJ, RACal, RA	HDF5 (Compressed)	tar
9	PPDF-S CH4 data	Monthly	PRJ, RACal, RA	HDF5 (Compressed)	tar
10	L2 CO2 profile (TIR)	Monthly	All user categories	HDF5 (Compressed)	tar
11	L2 CH4 profile (TIR)	Monthly	All user categories	HDF5 (Compressed)	tar
12	L2 H2O column amount (TIR)	Monthly	PRJ, RACal, RA	HDF5 (Compressed)	tar
13	TIR input dataset	Daily	PRJ	binary	tar.gz

Table 13.3 GOSAT Product Provision Format

No.	Product Provided	Unit	User Category	Product Format	Archive Format
14	L3 global CO2 distribution (SWIR)	Monthly	All user categories	HDF5 (Compressed)	tar
15	L3 global CH4 distribution (SWIR)	Monthly	All user categories	HDF5 (Compressed)	tar
16	CAI L1A data	Daily	PRJ	HDF5 (Non-Compres sed)	tar.gz
17	CAI L1B data	Path	All user categories	HDF5 (Compressed)	tar
18	CAI L1B+ data	Path	All user categories	HDF5 (Compressed)	tar
19	CAI L2 cloud flag	Path	All user categories	HDF5 (Compressed)	tar
20	CAI L2 cloud property	Path	PRJ, RACal, RA	HDF5 (Compressed)	tar
21	CAI L2 aerosol property	Path	PRJ, RACal, RA	HDF5 (Compressed)	tar
22	CAI L3 global radiance distribution	Monthly	All user categories	HDF5 (Compressed)	tar
23	CAI L3 global reflectance distribution	Monthly	All user categories	HDF5 (Compressed)	tar
24	CAI L3 NDVI	Monthly	All user categories	HDF5 (Compressed)	tar
25	CAI L3 global radiance distribution (1 day)	Monthly	PRJ	HDF5 (Compressed)	tar
26	L4A global CO2 flux (netCDF)	Annual	All user categories	netCDF	tar.gz
27	L4A global CO2 flux (text)	Annual	All user categories	text	tar.gz
28	L4A global CH4 flux (netCDF)	Annual	All user categories	netCDF	tar.gz
29	L4A global CH4 flux (text)	Annual	All user categories	text	tar.gz
30	L4B global CO2 distribution	Annual	All user categories	netCDF	tar.gz

No.	Product Provided	Unit	User Category	Product Format	Archive Format
31	L4B global CH4 distribution	Annual	All user categories	netCDF	tar.gz

\*1 The L2 CO2 column-averaged volumes, the L2 CH4 column-averaged volumes and the L2 H20 column-averaged volumes differ for the products that can be downloaded in accordance with the user category. See section 13.3 for details.

#### 13.3 SWIR Product Provision for Each User Category

The SWIR products that can be obtained by each user category are different. The SWIR products that are interactive with user categories are shown in Table 13.4. The [For GU users (with sub-data set)] represents a product for GU users to which additional information has been added.

User Category	Product Category	
PRJ	For PRJ users	
	For RA users	
	For GU users (with sub-data set)	
RACal, RA	For RA users	
	For GU users (with sub-data set)	
GU	For GU users	

Table 13.4 SWIR Products that Can Be Obtained by for Each User Category

#### 13.4 Product File Naming Conventions

The product file naming conventions are listed below. The product identification character strings are also listed in table 13.5.

- In the case of the archive format in Table 13.3 being tar.gz
- ✓ Products provided in daily units

[Product Identification Character Strings]\_[Observational Date (YYYMMDD)]

\_[Version].tar.gz

- Products provided in annual units
   [Product Identification Character Strings]\_[Observational Year (YYYY)]
   \_[Version].tar.gz
- In the case of the archive format in Table 13.3 being tar
- ✓ L2 CO2 column amount (SWIR), L2 CH4 column amount (SWIR), L2 H2O column amount (SWIR)

[Product Identification Character Strings] \_[Observational Date (YYYYMMDD)] \_[Path Number (NN)]\_[Version]\_[User Category].tar

- Products provided in path units
   [Product Identification Character Strings] \_[Observational Date (YYYYMMDD)]
   \_ [Path Number (NN)]\_[Version].tar
- ✓ Products provided in daily units

[Product Identification Character Strings] \_[Observational Date (YYYYMMDD)] \_[Version].tar

✓ Products provided in monthly units (except for the L2 column-averaged volumes (SWIR)).

[Product Identification Character Strings]\_ [Observational Month (YYYYMM)] \_ [Version].tar

✓ Products provided in annual units

[Product Identification Character Strings]\_ [Observational Year (YYYY)]

\_[Version].tar

No.	Product Provided	Product Identification Character Strings
1	FTS L1A data	FTSL1A
2	FTS L1B data	FTSL1B

Table 13.5 Product Identification Character Strings

No.	Product Provided	Product Identification Character Strings
3	FTS L1B calibration data	FTSL1BCAL
4	FTS FOV image	BROWSE
5	L2 CO2 column amount (SWIR)	SWIRL2CO2
6	L2 CH4 column amount (SWIR)	SWIRL2CH4
7	L2 H2O column amount (SWIR)	SWIRL2H2O
8	PPDF-S CO2 data	PPDFSCO2
9	PPDF-S CH4 data	PPDFSCH4
10	L2 CO2 profile (TIR)	TIRL2CO2
11	L2 CH4 profile (TIR)	TIRL2CH4
12	L2 H2O column amount (TIR)	TIRL2H2O
13	TIR input dataset	TIRIDS
14	L3 global CO2 distribution (SWIR)	SWIRL3CO2
15	L3 global CH4 distribution (SWIR)	SWIRL3CH4
16	CAI L1A data	CAIL1A
17	CAI L1B data	CAIL1B
18	CAI L1B+ data	CAIL1BP
19	CAI L2 cloud flag	CAIL2CLDFLG
20	CAI L2 cloud property	CAIL2CLDPRO
21	CAI L2 aerosol property	CAIL2AERPRO
22	CAI L3 global radiance distribution	CAIL3RAD
23	CAI L3 global reflectance distribution	CAIL3REF
24	CAI L3 NDVI	CAIL3NDVI
25	CAI L3 global radiance distribution (1 day)	CAIL3TRCD
26	L4A global CO2 flux (netCDF)	L4ACO2
27	L4A global CO2 flux (text)	L4ACO2TXT
28	L4A global CH4 flux (netCDF)	L4ACH4
29	L4A global CH4 flux (text)	L4ACH4TXT
30	L4B global CO2 distribution	L4BCO2
31	L4B global CH4 distribution	L4BCH4