
NIES GOSAT Data Handling System and User Interface (with Demonstration)

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The GOSAT Data Handling Facility (GOSAT DHF) has following 3 user interface for users outside of GOSAT DHF:

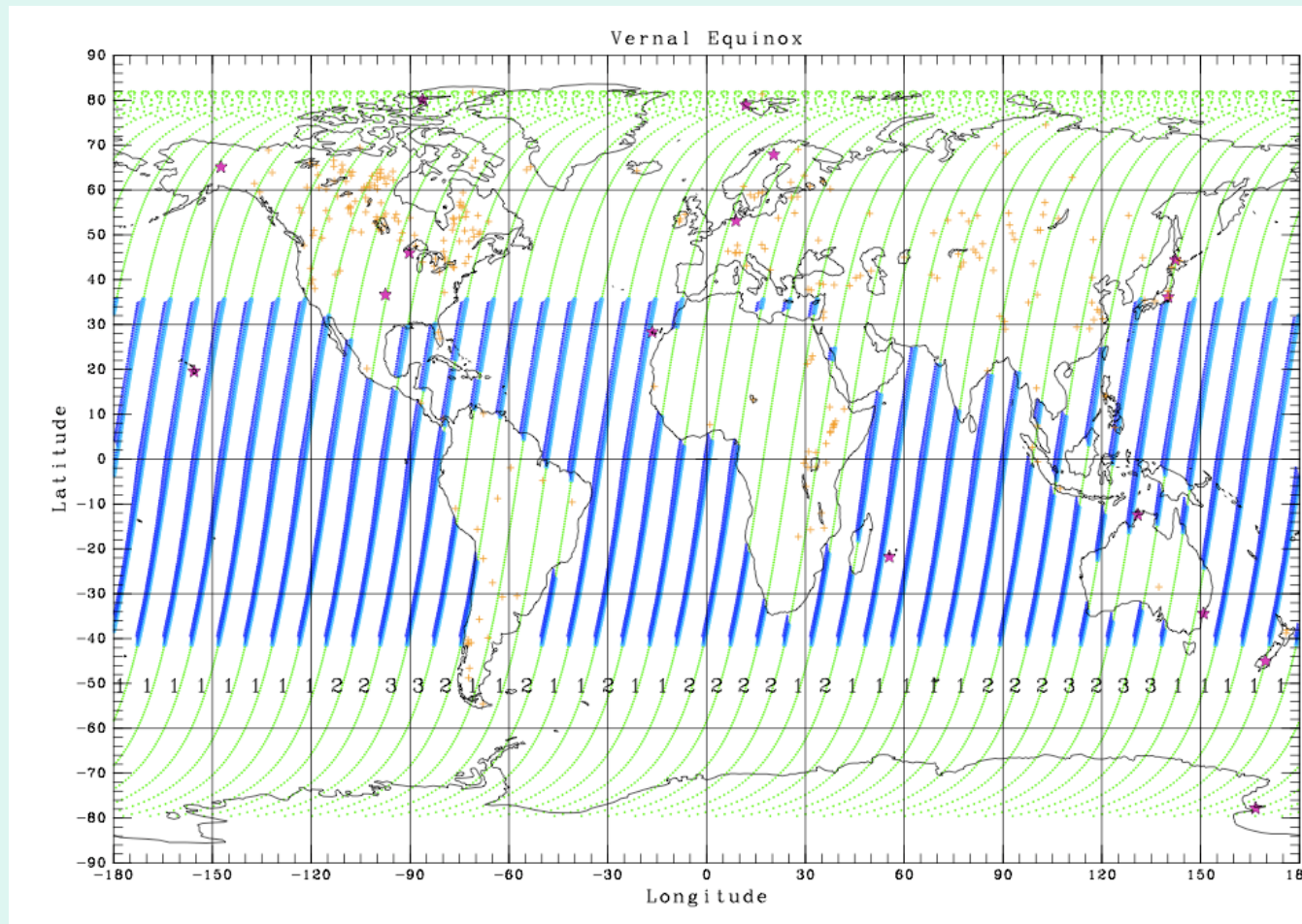
- 1) User Authentication,
- 2) Observation Request Submission,
- 3) Data Search and Product Order.

Data Search is available to any general users even if he/she has not registered yet.

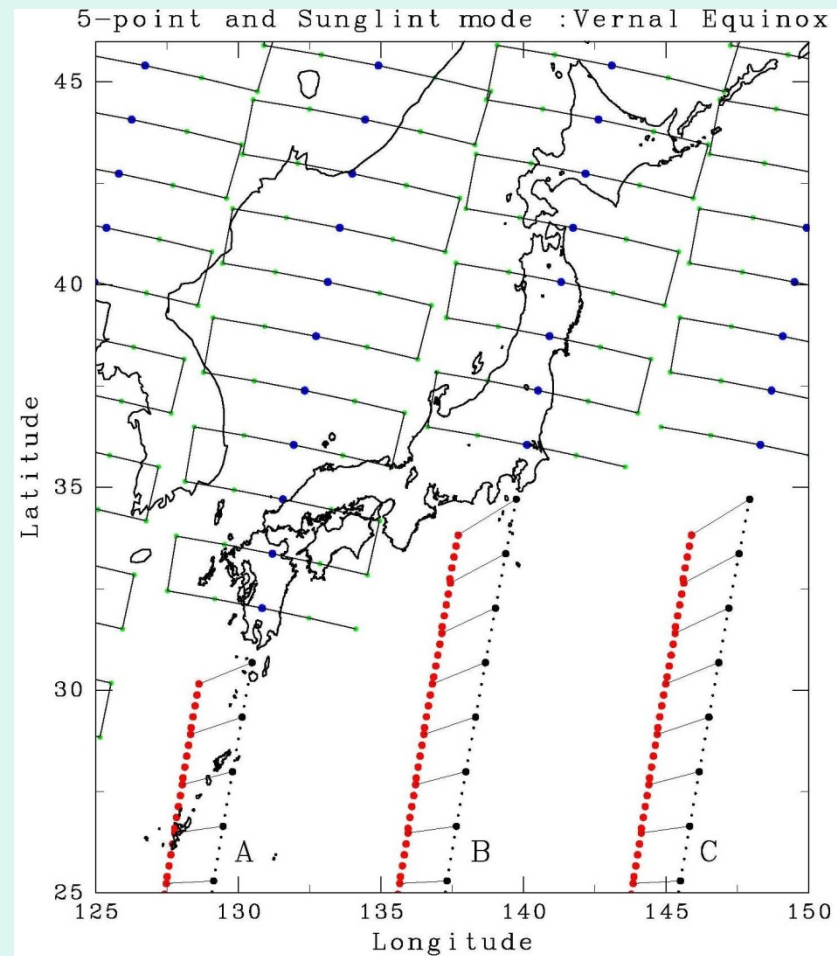
But, registered users have a right to order the Standard Products under the condition that he/she observes the Data Policy that the Three Parties agreed. In addition, the qualified RA users have a right to order the Research Product, Moreover, RA users have a right to submit the observation request, as long as the observation request is considered to be necessary for their research plan.

We will introduce you two features with demonstration, and those are the function of **observation request** and the function of **product search and order**. The function of observation request will provide the observation request submission and the observation request status. These functions will be provided only for RA researchers or researchers who has right to send the observation request. RA investigators are able to send observation requests, but NIES cannot guarantee to accept all of the observation requests. In the function of product search and order, we will provide product search and order for a start.

Typical Observation Pattern of GOSAT FTS



Observation in the neighborhood of Japan

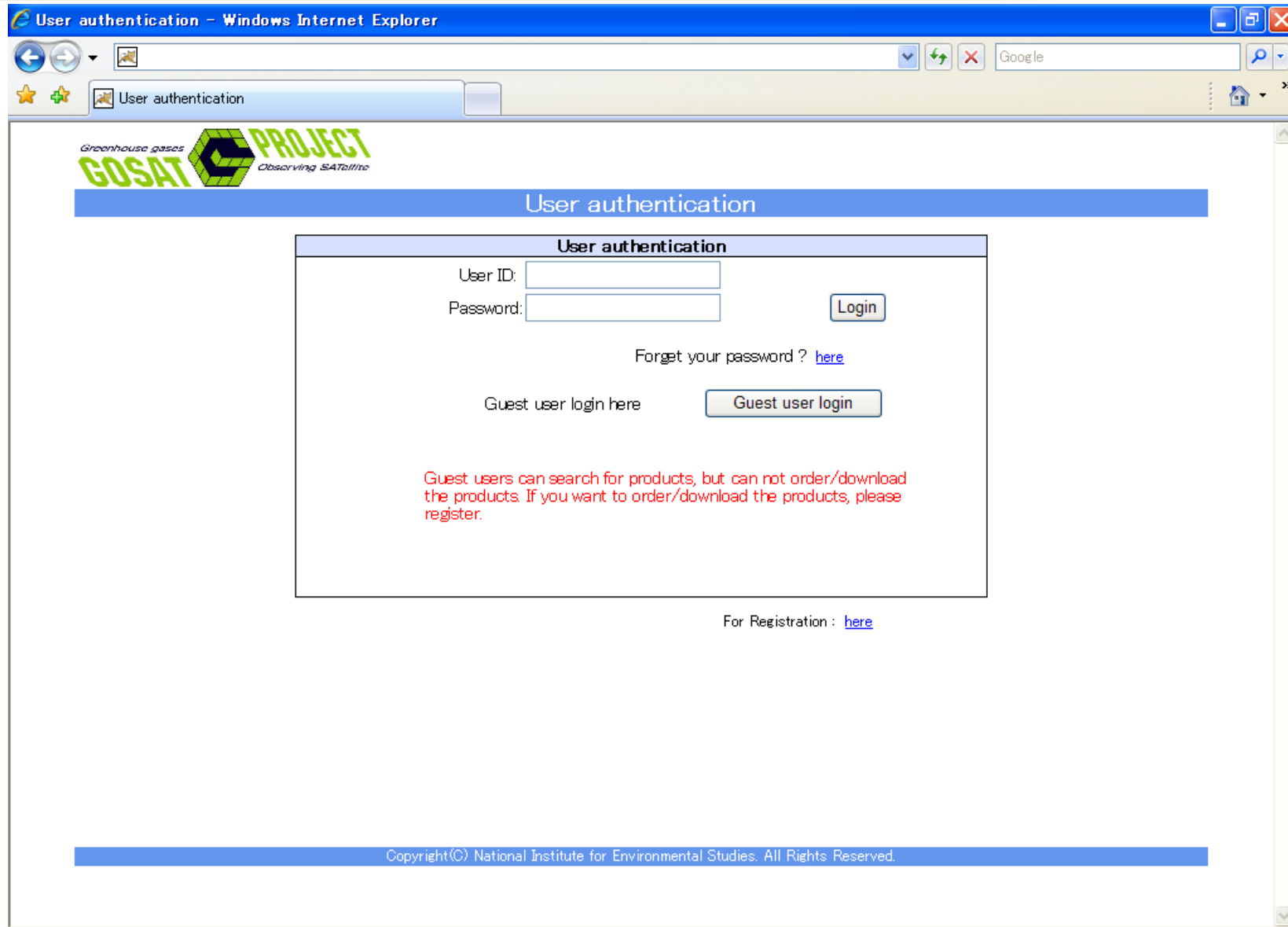


On the other hand, the FTS observation will be conducted, if there is no specific observation request, based on the lattice observation over the land and sun glint observation over the sea. Since the **current default value of the lattice observation in cross track direction is 5** (the distance between two adjacent observations is about **150 km**), note that most of the land area will be covered without any specific observation request. Currently, candidates of the specific observation will be planned for calibration/validation targets, emergency observation for pipeline leakage/forest fires, simultaneous observation with other satellites, etc.

DEMONSTRATION

1. Login – Menu
2. Observation Request
3. Product Distribution

1.1 User Authentication page



1.2 Menu Page



The screenshot shows a web browser window titled "Selection Menu - Windows Internet Explorer". The address bar contains "Selection Menu". The page content includes the GOSAT logo (Greenhouse gases PROJECT Observing SATellite) and the email address "ra@test.go.jp". There are links for "Top menu" and "Logout". The main content area is titled "Selection Menu" and contains three columns of links:

Observation Request	Product Distribution	User Information
<ul style="list-style-type: none">• Observation Request Submission• Observation Request Status	<ul style="list-style-type: none">• L1 and L2 Product Search and Order• L3 and L4 Product Search and Order• FTS L1B Calibration Product Search and Order• Product Download	<ul style="list-style-type: none">• Edit User Information

At the bottom of the page, there is a copyright notice: "Copyright(C) National Institute for Environmental Studies. All Rights Reserved."

1.3.1 Observation Request Submission

Observation Request Period Selection - Windows Internet Explorer

ra@test.go.jp [TOP](#) [LOGOUT](#)

Observation Request Period Selection

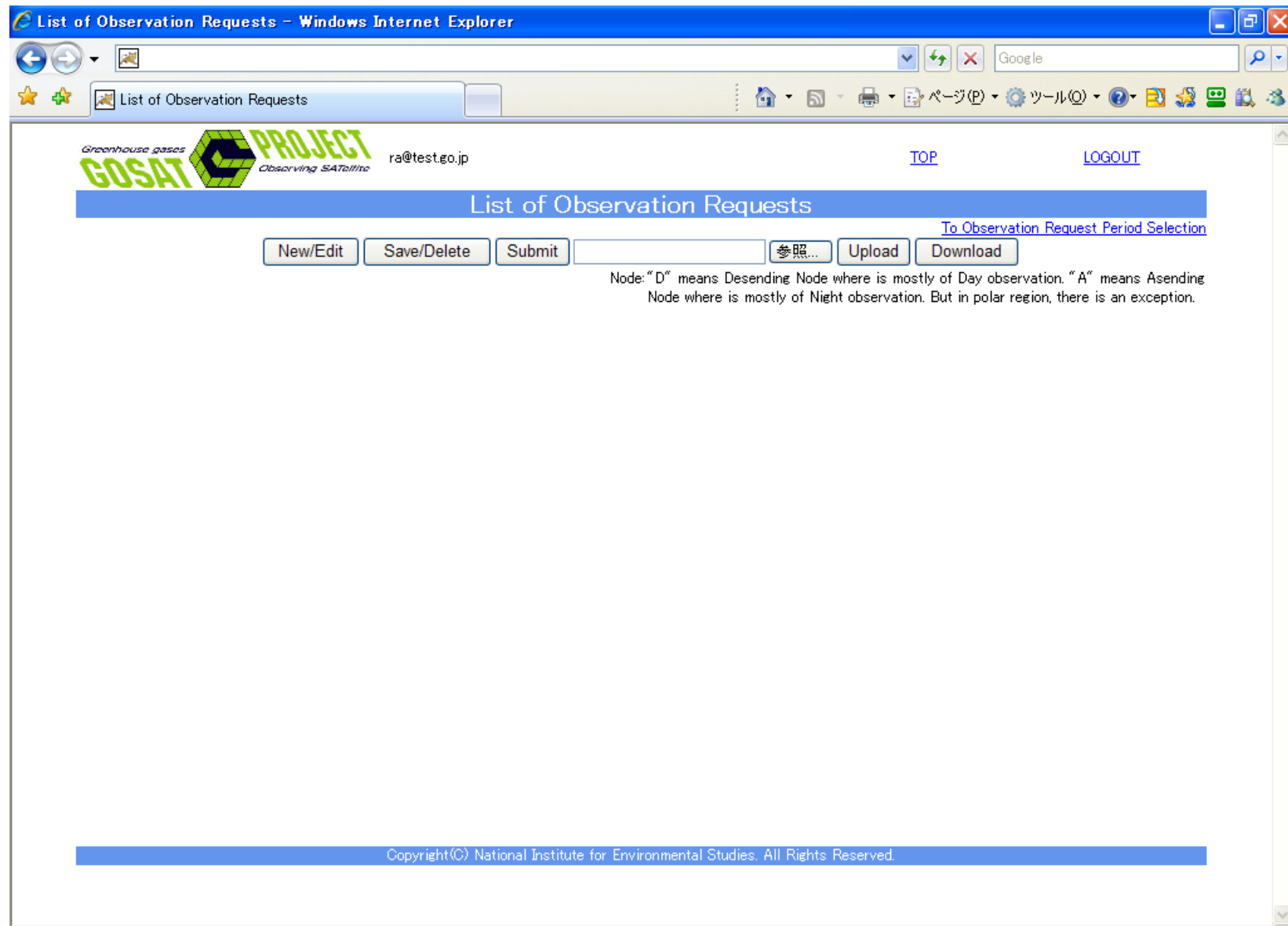
Period that NIES is accepting. 2008/09/01 - 2008/11/30

Period that you want to submit observation request. 2008/11/15 - 2008/11/18
YYYY/MM/DD YYYY/MM/DD

[Next](#)

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1.3.2 Observation Request Submission



Greenhouse gases PROJECT
GOSAT Observing SATellite ra@test.go.jp

TOP LOGOUT

List of Observation Requests

[To Observation Request Period Selection](#)

New/Edit Save/Delete Submit 参照... Upload Download

Node: "D" means Desending Node where is mostly of Day observation. "A" means Asending Node where is mostly of Night observation. But in polar region, there is an exception.

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1.3.3 Observation Request Submission

Map Request FTS - Windows Internet Explorer

Google

Map Request FTS

World

Zoom Out

Zoom In #2

U

L To R

D

Map : Equidistant cylindrical

Lat. & Lon. Lake River

Volcano (Name)

Large City (Name)

Medium City (Name)

Small Town (Name)

Major Area (Name)

Term: 2008 10 30 Apply

3 Days

Path: (Nominal Auto)

(Asc. Des. Both)

Disp. High Other No.

Obs. Range

Mesh Point CT: 5

Ope.: Add Move Del.

File: Shape CSV

Lat. -44 Lon. -123

Term: 2008 9 1 - 2008 11 30 Apply Path: (Nominal Auto)

Del.	No.	Req. Date	Lat.(deg)	Lon.(deg)	Path Dir.	Obs. Date	Path Dir.
List >							
< Set							

OK

Lat: -44 00 00.000 Lon: -123 00 00.000

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1.3.4 Observation Request Submission

Map Request FTS - Windows Internet Explorer

Google

Map Request FTS

World, Zoom Out, Zoom In #2, U, L, To, R, D, Rectangle, Map: Equidistant cylindrical, Lat. & Lon., Lake, River, Volcano, Large City, Medium City, Small Town, Major Area, Term: 2008 10 30, Path: (Nominal, Auto), (Asc., Des., Both), Disp., High, Other, Mesh Point, Ope.: Add, Move, Del., File: Shape, CSV, Load, Save, OK

Del.	No.	Req. Date	Lat.(deg)	Lon.(deg)	Path	Dir.
<input type="checkbox"/>		2008/09/03 04:01:54	36.8929144	140.4160227	5	D

Obs. Date	Path	Dir.
2008/09/01 15:3...	27	A
2008/09/03 04:0...	5	D
2008/09/03 15:0...	26	A
2008/09/04 15:3...	27	A
2008/09/06 04:0...	5	D
2008/09/06 15:0...	26	A
2008/09/07 15:3...	27	A
2008/09/09 04:0...	5	D

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1.3.5 Observation Request Submission



List of Observation Requests - Windows Internet Explorer

Greenhouse gases **GOSAT PROJECT** Observing SATellite ra@test.go.jp [TOP](#) [LOGOUT](#)

List of Observation Requests

[To Observation Request Period Selection](#)

Node: "D" means Desending Node where is mostly of Day observation. "A" means Asending Node where is mostly of Night observation. But in polar region, there is an exception.

Delete	No	Observation Date (UT)	Lat	Lon	Path	Node	AT Min	AT Max	SP-ASP Gain	SS-ASP Gain	Warning	Impact on the Default Observations	
<input type="checkbox"/>		2008/09/03 04:01:54	36.892	140.416	5	D	-20	20	H	H			Detail

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1.4.1 Observation Request Status

Selection Menu - Windows Internet Explorer

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Selection Menu

Observation Request	Product Distribution	User Information
<ul style="list-style-type: none">• Observation Request Submission• Observation Request Status	<ul style="list-style-type: none">• L1 and L2 Product Search and Order• L3 and L4 Product Search and Order• FTS L1B Calibration Product Search and Order• Product Download	<ul style="list-style-type: none">• Edit User Information

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1.4.2 Observation Request Status

Check Observation Requests - Windows Internet Explorer

Check Observation Requests

Greenhouse gases **GOSAT** PROJECT *Observing SATellite* ra@test.go.jp [TOP](#) [LOGOUT](#)

Check Observation Requests

Period: - YYYY/MM/DD

Path: 1 - 44

Area:

Node: Ascending Descending

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1.4.3 Observation Request Status

Check Observation Requests - Windows Internet Explorer

Greenhouse gases **GOSAT PROJECT** Observing SATELLITE ra@test.go.jp TOP LOGOUT

Check Observation Requests

Period: - YYYY/MM/DD

Path: 1 - 44

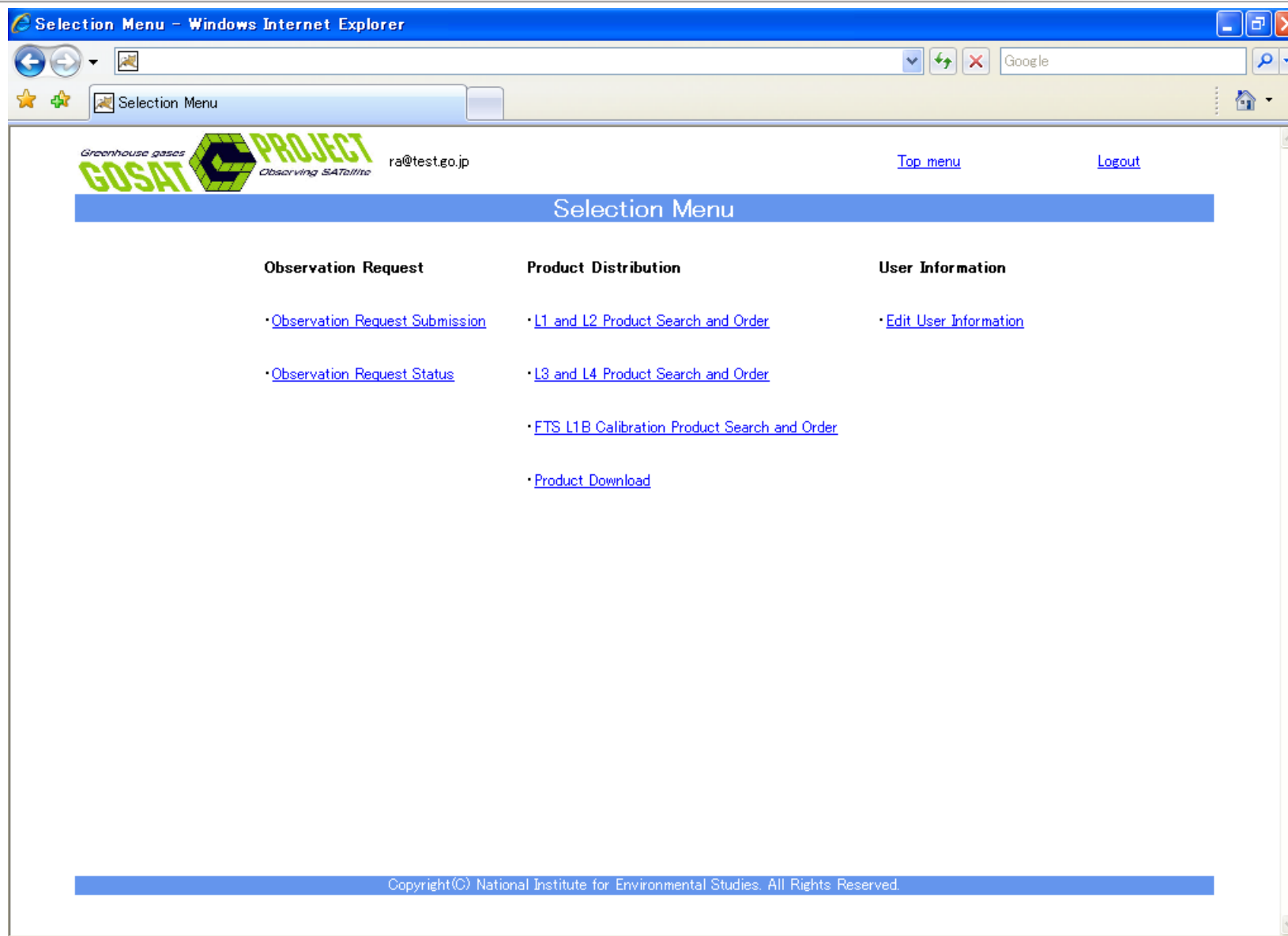
Area:

Node: Ascending Descending

No▲	Request Date	Lat	Lon	Path No	Node Type	NIES Received	1st Obs. Plan	2nd Obs. Plan	3rd Obs. Plan	4th Obs. Plan	Op. Start Date	Op. End Date	Obs. Scene ID	Obs. Scan ID
200810240000000	2008/11/05 04:02:07	36.122	140.052	5	D	-								
200810240000001	2008/11/05 04:02:09	36.051	140.064	5	D	-								
200810240000002	2008/11/05 04:02:09	36.022	140.111	5	D	-								
200810240000003	2008/11/11 04:00:12	43.053	142.286	5	D	ok								
200810240000004	2008/11/08 04:02:00	36.613	140.098	5	D	ok								
200810270000011	2008/11/17 04:01:13	39.433	140.842	5	D	ok								

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2.1.1 Menu Page

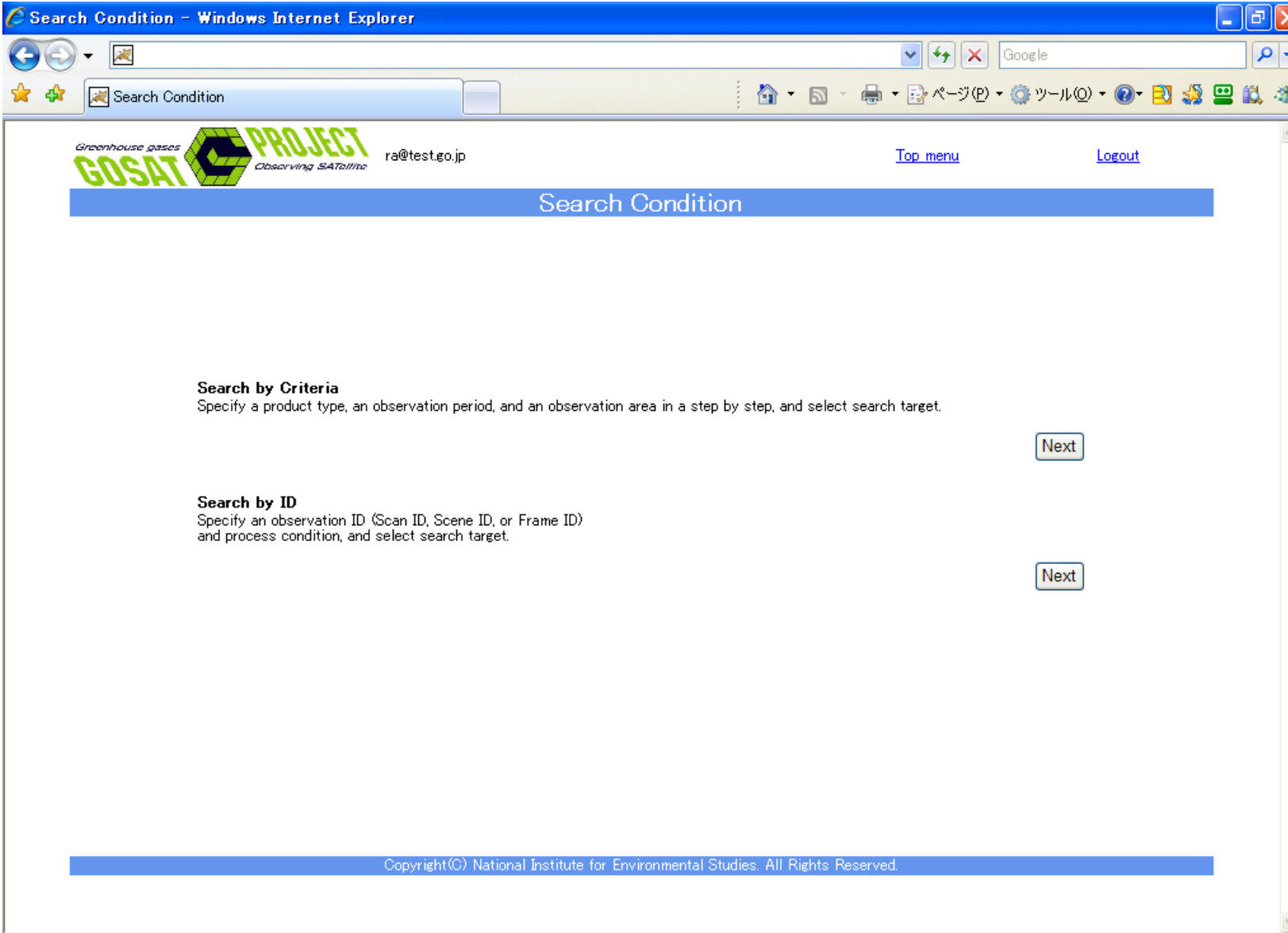


The screenshot shows a web browser window titled "Selection Menu - Windows Internet Explorer". The address bar contains "Selection Menu". The page content includes the GOSAT logo (Greenhouse gases PROJECT Observing SATellite) and the email address "ra@test.go.jp". There are links for "Top menu" and "Logout". The main content area is titled "Selection Menu" and is divided into three columns:

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2.1.2 L1&L2 product search and order



Search Condition – Windows Internet Explorer

Search Condition

Greenhouse gases **GOSAT** PROJECT Observing SATellite ra@test.go.jp [Top menu](#) [Logout](#)

Search Condition

Search by Criteria
Specify a product type, an observation period, and an observation area in a step by step, and select search target.

Search by ID
Specify an observation ID (Scan ID, Scene ID, or Frame ID) and process condition, and select search target.

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2.1.3 L1&L2 product search and order

Product Search (Step1) - Windows Internet Explorer

Product Search (Step1)

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Product Search (Step1)

STEP 1 → STEP 2 → STEP 3 → STEP 4

Select Search Target (Required) Select Observation Period (Required) Select Observation Area (Required) Other Settings (Optional)

Product Level

FTS L1A FTS L1B CAI L1A CAI L1B CAI L1B+
 FTS SWIR L2 FTS TIR L2 CAI L2

Display Product Type

Prod. Type	Product Version	List of products observed in the same period
<input type="checkbox"/> *L2 CO2 column amount(TIR)	T01.00(C) ▼	List
<input type="checkbox"/> L2 CO2 profile(TIR)	T01.00(C) ▼	List

The letter in the parenthesis indicates a validation stage.
Specify Search Group

Search by Scan
 Search by Day

[Back to Search Condition](#) [Next](#)

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2.1.4 L1&L2 product search and order

Product Search (Step2) - Windows Internet Explorer

Product Search (Step2)

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Product Search (Step2)

STEP 1 Select Search Target (Required) → STEP 2 Select Observation Period (Required) → STEP 3 Select Observation Area (Required) → STEP 4 Other Settings (Optional)

Specify an Observation Period (UTC) (Available Periods between 2008/03/22 and 2010/04/08).

Start Date: YYYY/MM/DD Start Time: HH:MM:SS
End Date: YYYY/MM/DD End Time: HH:MM:SS

Specify the same periods (UTC) annually

Start Date: MM/DD Start Time: HH:MM:SS
End Date: MM/DD End Time: HH:MM:SS

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2.1.5 L1&L2 product search and order

Product Search (Step3) - Windows Internet Explorer

Product Search (Step3)

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Product Search (Step3)

STEP 1 Select Search Target (Required) → STEP 2 Select Observation Period (Required) → **STEP 3 Select Observation Area (Required)** → STEP 4 Other Settings (Optional)

Specify Area

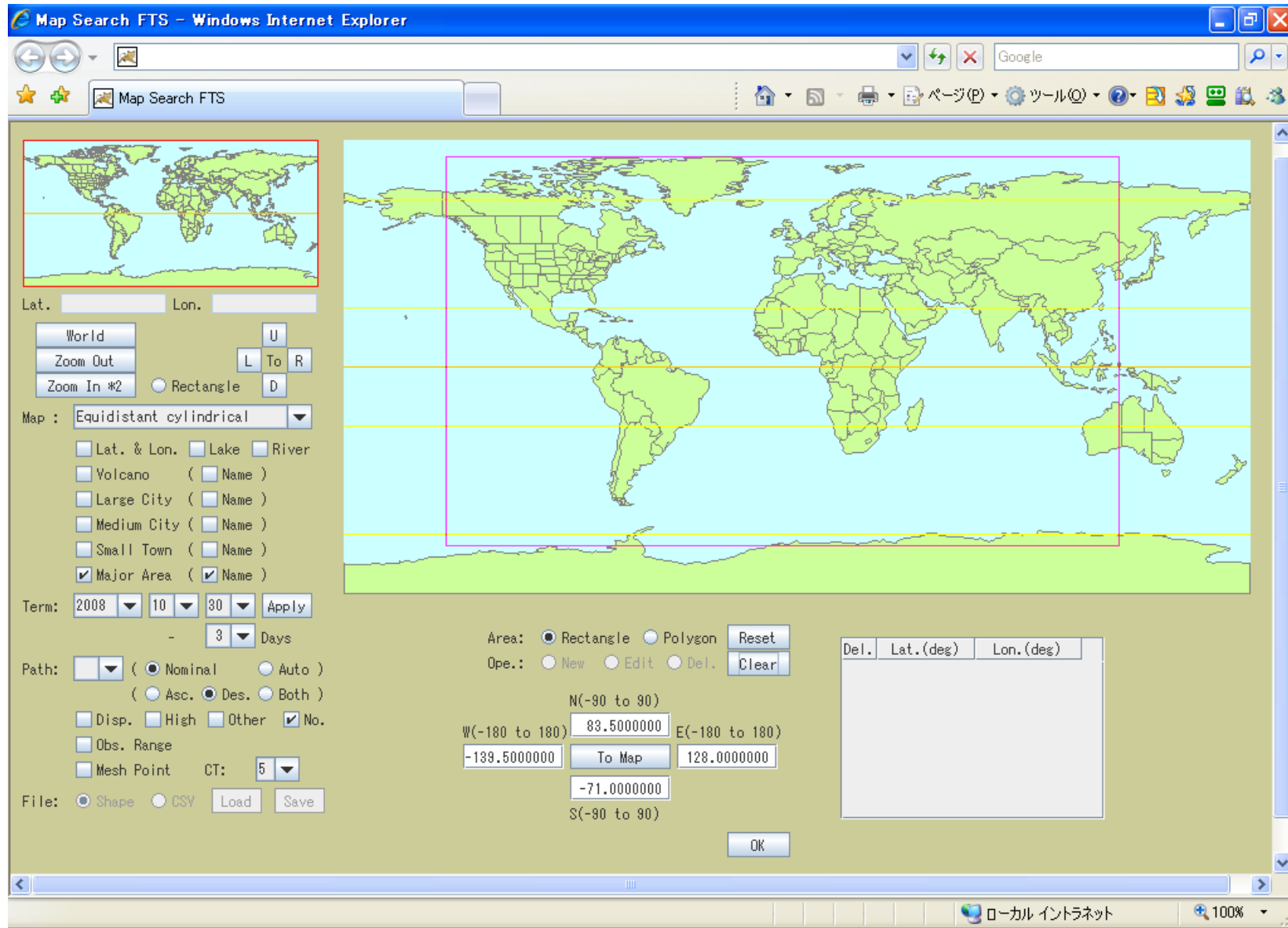
No
 Yes

Map

Back to Search Condition Back Next

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2.1.6 L1&L2 product search and order



2.1.7 L1&L2 product search and order

Product Search (Step3) - Windows Internet Explorer

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Product Search (Step3)

STEP 1 Select Search Target (Required) → STEP 2 Select Observation Period (Required) → **STEP 3 Select Observation Area (Required)** → STEP 4 Other Settings (Optional)

Specify Area

No
 Yes

Area Specification Category	Rectangle
North End Latitude	83.5
South End Latitude	-71.0
East End Longitude	128.0
West End Longitude	-139.5

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2.1.8 L1&L2 product search and order

Product Search (Step4) - Windows Internet Explorer

Product Search (Step4)

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Product Search (Step4)

STEP 1 → STEP 2 → STEP 3 → **STEP 4**

Select Search Target (Required) Select Observation Period (Required) Select Observation Area (Required) Other Settings (Optional)

Specify the Observation Condition

No
 Yes

Solar Zenith Angle: 0 degree from 90 degree Azimuthal Angle: 0 degree from 360 degree
Satellite Zenith Angle: 0 degree from 90 degree Azimuthal Angle: 0 degree from 360 degree

Specify the Observation Mode

No
 Yes

Observation Mode I: Daytime Observation Observation Mode I: Nighttime Observation Observation Mode II
 Specific Observation Mode: Daytime Observation Specific Observation Mode: Nighttime Observation Sunlint Observation Mode

Specify the Land/Sea Flag

No
 Yes

Land Sea Land/Sea Mixture

Specify the Quality

No
 Yes Good over

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2.1.9 L1&L2 product search and order

Search Result - Windows Internet Explorer

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Search Result

[Show Map](#)

116 acquired 1/12 [Forward](#)

No.	Map Display	Obs. Start Time	Prod. Type	Prod. Ver.	Center Lat. of FOV	Center Lon. of FOV	Path Num.	Scene Num.	Obs. Mode	PS-ASP Gain	SS-ASP Gain	Quality	Obs. ID	File Size	FOV Image	Order
1	<input checked="" type="checkbox"/>	2008-03-24 20:06:40.0	*L2 CO2 column amount(TIR)	T01.00(C)	-42.182	82.623	33	53	OB1N	M	M	G	F080324200640335312	1.1 MB	Display	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	2008-03-24 20:06:58.0	*L2 CO2 column amount(TIR)	T01.00(C)	-41.617	76.48	33	54	OB1N	M	M	G	F080324200658335412	1.1 MB	Display	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	2008-03-24 20:19:33.0	*L2 CO2 column amount(TIR)	T01.00(C)	81.733	-146.745	36	01	OB1D	M	H	G	F080324201933360112	1.1 MB	Display	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	2008-03-24 20:34:54.0	*L2 CO2 column amount(TIR)	T01.00(C)	80.331	-144.618	36	11	OB1D	M	M	G	F080324203454361112	1.1 MB	Display	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	2008-04-01 02:02:02.0	*L2 CO2 column amount(TIR)	T01.00(C)	50.747	112.449	00	00	OB1D	M	M	G	F080401010101000001	1.1 MB	Display	<input type="checkbox"/>
6	<input checked="" type="checkbox"/>	2008-04-01 02:02:03.0	*L2 CO2 column amount(TIR)	T01.00(C)	50.352	114.612	00	00	OB1D	M	M	G	F080401010101000002	1.1 MB	Display	<input type="checkbox"/>
7	<input checked="" type="checkbox"/>	2008-04-01 02:02:04.0	*L2 CO2 column amount(TIR)	T01.00(C)	49.916	116.733	00	00	OB1D	M	M	G	F080401010101000003	1.1 MB	Display	<input type="checkbox"/>
8	<input checked="" type="checkbox"/>	2008-04-01 02:02:05.0	*L2 CO2 column amount(TIR)	T01.00(C)	48.601	116.055	00	00	OB1D	M	M	G	F080401010101000004	1.1 MB	Display	<input type="checkbox"/>
9	<input checked="" type="checkbox"/>	2008-04-01 02:02:06.0	*L2 CO2 column amount(TIR)	T01.00(C)	49.033	113.99	00	00	OB1D	M	M	G	F080401010101000005	1.1 MB	Display	<input type="checkbox"/>
10	<input checked="" type="checkbox"/>	2008-04-01 02:02:07.0	*L2 CO2 column amount(TIR)	T01.00(C)	49.42	111.892	00	00	OB1D	M	M	G	F080401010101000006	1.1 MB	Display	<input type="checkbox"/>

Total file size 0.0MB

[Select All](#) [Deselect](#)
[Order Confirmation](#)

2.1.10 L1&L2 product search and order



Map Result FTS - Windows Internet Explorer

Google

Map Result FTS

World U
Zoom Out L To R
Zoom In #2 Rectangle D

Map : Equidistant cylindrical

Lat. & Lon. Lake River
 Volcano (Name)
 Large City (Name)
 Medium City (Name)
 Small Town (Name)
 Major Area (Name)

Term: 2008 10 30 Apply
- 3 Days

Path: (Nominal Auto)
(Asc. Des. Both)
 Disp. High Other No.
 Obs. Range
 Mesh Point CT: 5

Area: Rectangle Polygon Reset
Ope.: New Edit Del. Clear

N(-90 to 90)
W(-180 to 180) E(-180 to 180)
 To Map
S(-90 to 90)

Del.	Lat.(deg)	Lon.(deg)
------	-----------	-----------

Read [this information](#) when a map isn't displayed.

Lat: 44 19 19.796 Lon: 120 49 17.075

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2.1.11 L1&L2 product search and order



Search Result - Windows Internet Explorer

Greenhouse gases **GOSAT PROJECT** Observing SATellite ra@test.go.jp [Top menu](#) [Logout](#)

Search Result

116 acquired 1/12 [Forward](#)

No.	Map Display	Obs. Start Time	Prod. Type	Prod. Ver.	Center Lat. of FOV	Center Lon. of FOV	Path Num.	Scene Num.	Obs. Mode	PS-ASP Gain	SS-ASP Gain	Quality	Obs. ID	File Size	FOV Image	Order
1	<input type="checkbox"/>	2008-03-24 20:06:40.0	*L2 CO2 column amount(TIR)	T01.00(C)	-42.182	82.623	33	53	OB1N	M	M	G	F080324200640335312	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>	2008-03-24 20:06:58.0	*L2 CO2 column amount(TIR)	T01.00(C)	-41.617	76.48	33	54	OB1N	M	M	G	F080324200658335412	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	2008-03-24 20:19:33.0	*L2 CO2 column amount(TIR)	T01.00(C)	81.733	-146.745	36	01	OB1D	M	H	G	F080324201933360112	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
4	<input type="checkbox"/>	2008-03-24 20:34:54.0	*L2 CO2 column amount(TIR)	T01.00(C)	80.331	-144.618	36	11	OB1D	M	M	G	F080324203454361112	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>	2008-04-01 02:02:02.0	*L2 CO2 column amount(TIR)	T01.00(C)	50.747	112.449	00	00	OB1D	M	M	G	F080401010101000001	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
6	<input type="checkbox"/>	2008-04-01 02:02:03.0	*L2 CO2 column amount(TIR)	T01.00(C)	50.352	114.612	00	00	OB1D	M	M	G	F080401010101000002	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
7	<input type="checkbox"/>	2008-04-01 02:02:04.0	*L2 CO2 column amount(TIR)	T01.00(C)	49.916	116.733	00	00	OB1D	M	M	G	F080401010101000003	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
8	<input type="checkbox"/>	2008-04-01 02:02:05.0	*L2 CO2 column amount(TIR)	T01.00(C)	48.601	116.055	00	00	OB1D	M	M	G	F080401010101000004	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
9	<input type="checkbox"/>	2008-04-01 02:02:06.0	*L2 CO2 column amount(TIR)	T01.00(C)	49.033	113.99	00	00	OB1D	M	M	G	F080401010101000005	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>
10	<input type="checkbox"/>	2008-04-01 02:02:07.0	*L2 CO2 column amount(TIR)	T01.00(C)	49.42	111.892	00	00	OB1D	M	M	G	F080401010101000006	1.1MB	<input type="button" value="Display"/>	<input checked="" type="checkbox"/>

Total file size 127.6MB

隠れているイメージを表示します

2.1.12 L1&L2 product search and order

Order Confirmation - Windows Internet Explorer

Greenhouse gases PROJECT GOSAT Observing SATellite ra@test.go.jp [Top menu](#) [Logout](#)

Order Confirmation

Do you want to order the following products?

4 acquired 1/1

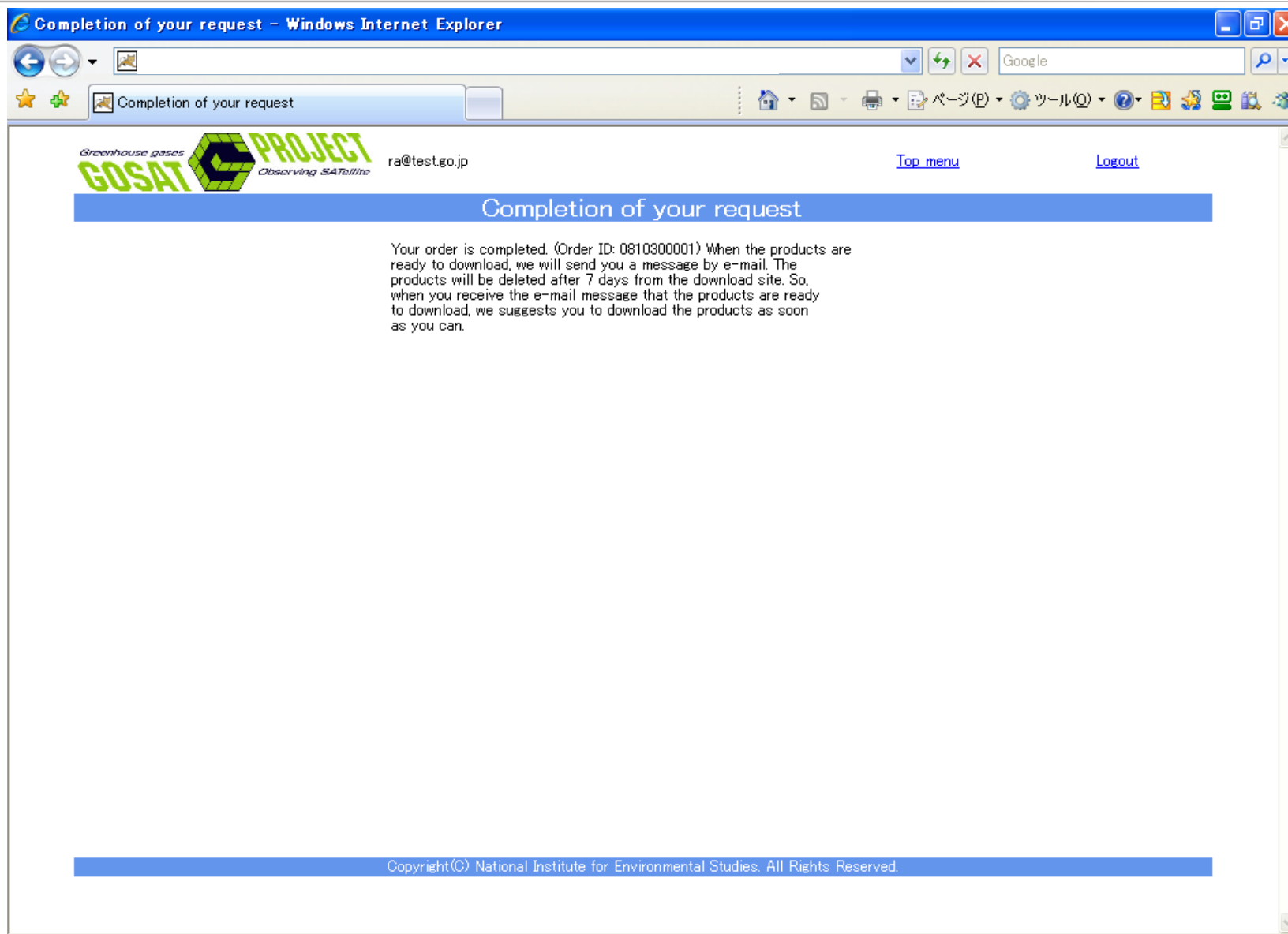
No.	Obs. ID	Prod. Type	Product Version	File Size
1	F080324200640335312	*L2 CO2 column amount(TIR)	T01.00(C)	1.1 MB
2	F080324200658335412	*L2 CO2 column amount(TIR)	T01.00(C)	1.1 MB
3	F080324201933360112	*L2 CO2 column amount(TIR)	T01.00(C)	1.1 MB
4	F080324203454361112	*L2 CO2 column amount(TIR)	T01.00(C)	1.1 MB

Total file size 4.4MB

Do you want to order FTS FOV image?
 No Yes

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2.1.13 L1&L2 product search and order



2.2.1 Product Download



Selection Menu - Windows Internet Explorer

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Selection Menu

Observation Request	Product Distribution	User Information
<ul style="list-style-type: none">Observation Request SubmissionObservation Request Status	<ul style="list-style-type: none">L1 and L2 Product Search and OrderL3 and L4 Product Search and OrderFTS L1B Calibration Product Search and OrderProduct Download	<ul style="list-style-type: none">Edit User Information

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2.2.2 Product Download



Ordered product list - Windows Internet Explorer

Greenhouse gases **GOSAT PROJECT** Observing SATellite ra@test.go.jp [Top menu](#) [Logout](#)

Ordered product list

Ordered product list
After creating the products, these ordered products will be automatically removed in 7 days.
Therefore, please download them ahead of time.

No	Order ID	Order Time (UTC)	Generate complete Time (UTC)	Data size (MB)	Product generate status	Download
1	0810230001	2008/10/23 05:38:15		4.400	NO	<input type="button" value="Download"/>
2	0810230002	2008/10/23 06:09:56		4.400	NO	<input type="button" value="Download"/>
3	0810230003	2008/10/23 08:25:04		2.200	NO	<input type="button" value="Download"/>
4	0810230004	2008/10/23 11:09:27		5.500	NO	<input type="button" value="Download"/>
5	0810230005	2008/10/23 11:10:33		8.800	NO	<input type="button" value="Download"/>
6	0810230006	2008/10/23 11:12:22		2.200	NO	<input type="button" value="Download"/>
7	0810230007	2008/10/23 11:15:27		33.000	NO	<input type="button" value="Download"/>
8	0810230008	2008/10/23 11:16:53		2.200	NO	<input type="button" value="Download"/>
9	0810230009	2008/10/23 11:17:46		3.300	NO	<input type="button" value="Download"/>
10	0810230010	2008/10/23 12:03:48		8.800	NO	<input type="button" value="Download"/>
11	0810230011	2008/10/23 12:20:54		6.600	NO	<input type="button" value="Download"/>
12	0810230012	2008/10/23 12:25:03		8.800	NO	<input type="button" value="Download"/>
13	0810280001	2008/10/28 01:32:09		125.400	NO	<input type="button" value="Download"/>
14	0810280002	2008/10/28 03:22:21		127.600	NO	<input type="button" value="Download"/>
15	0810290001	2008/10/29 07:54:48		13.200	NO	<input type="button" value="Download"/>
16	0810300001	2008/10/30 05:07:34		4.400	NO	<input type="button" value="Download"/>