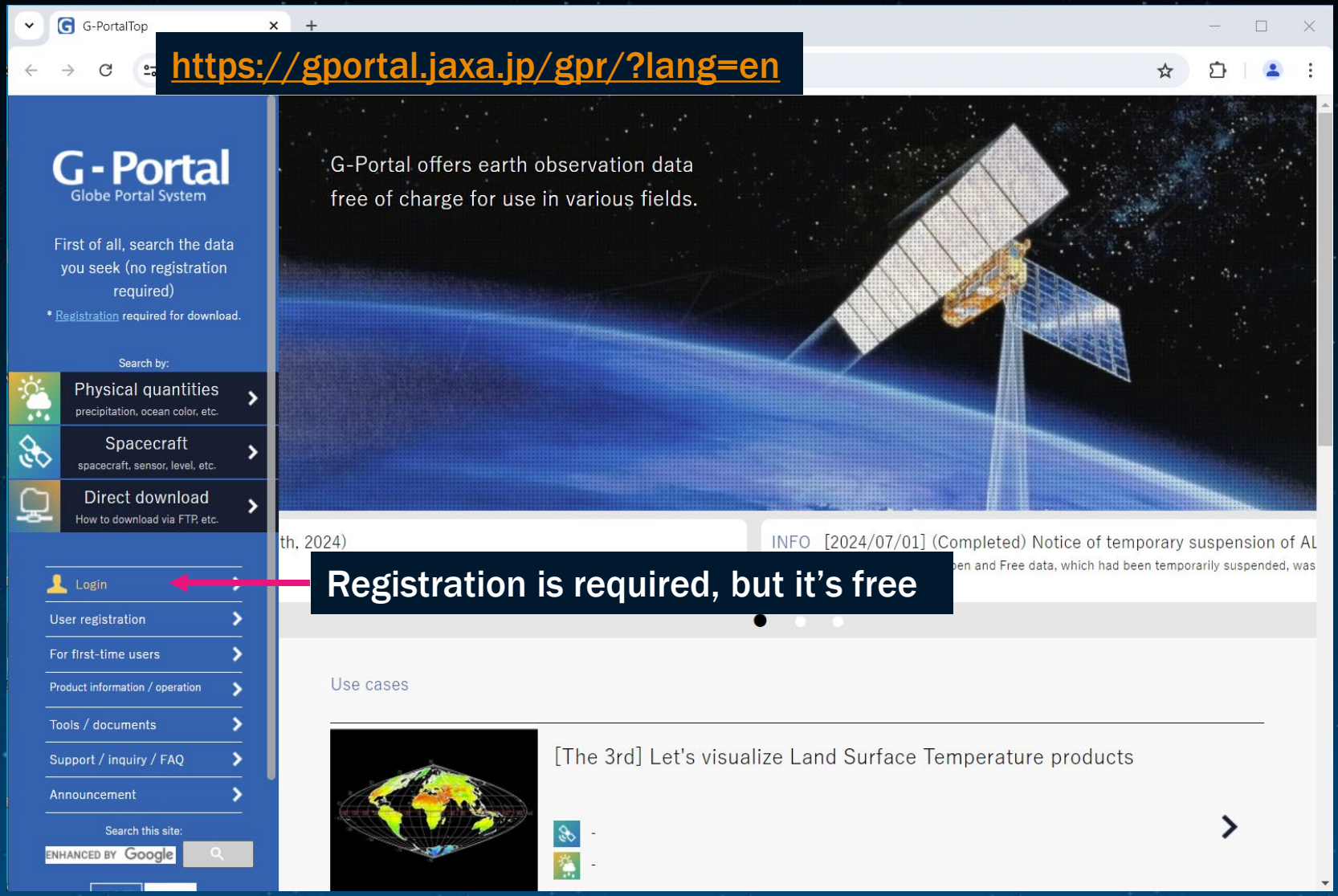
How to Find and Download GCOM-W1 AMSR-2 Microwave imagery

Scott Lindstrom, UW-Madison
Cooperative Institute for Meteorological Satellite Studies
(CIMSS)

Data are available online! (Thank you JAXA!)



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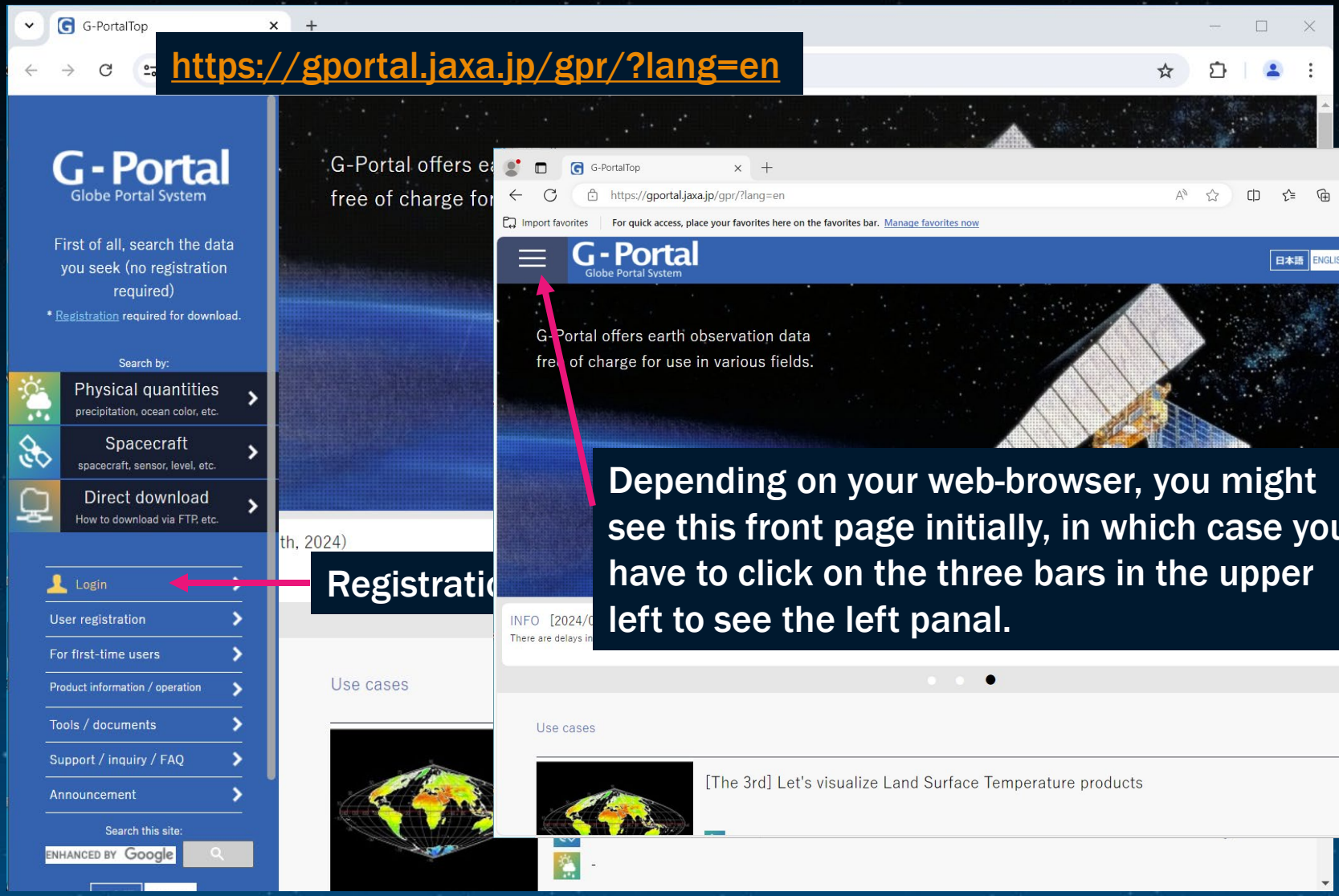
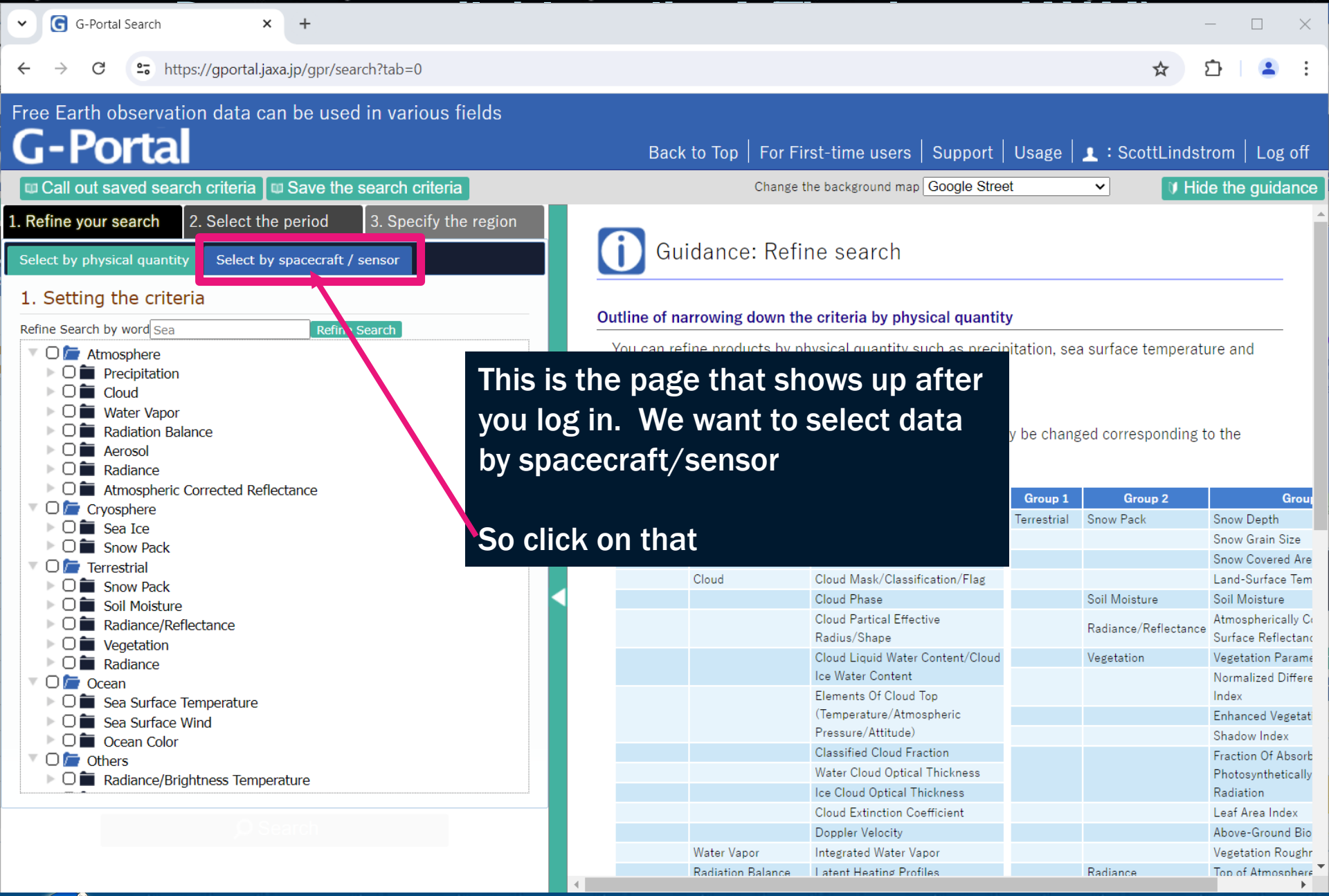
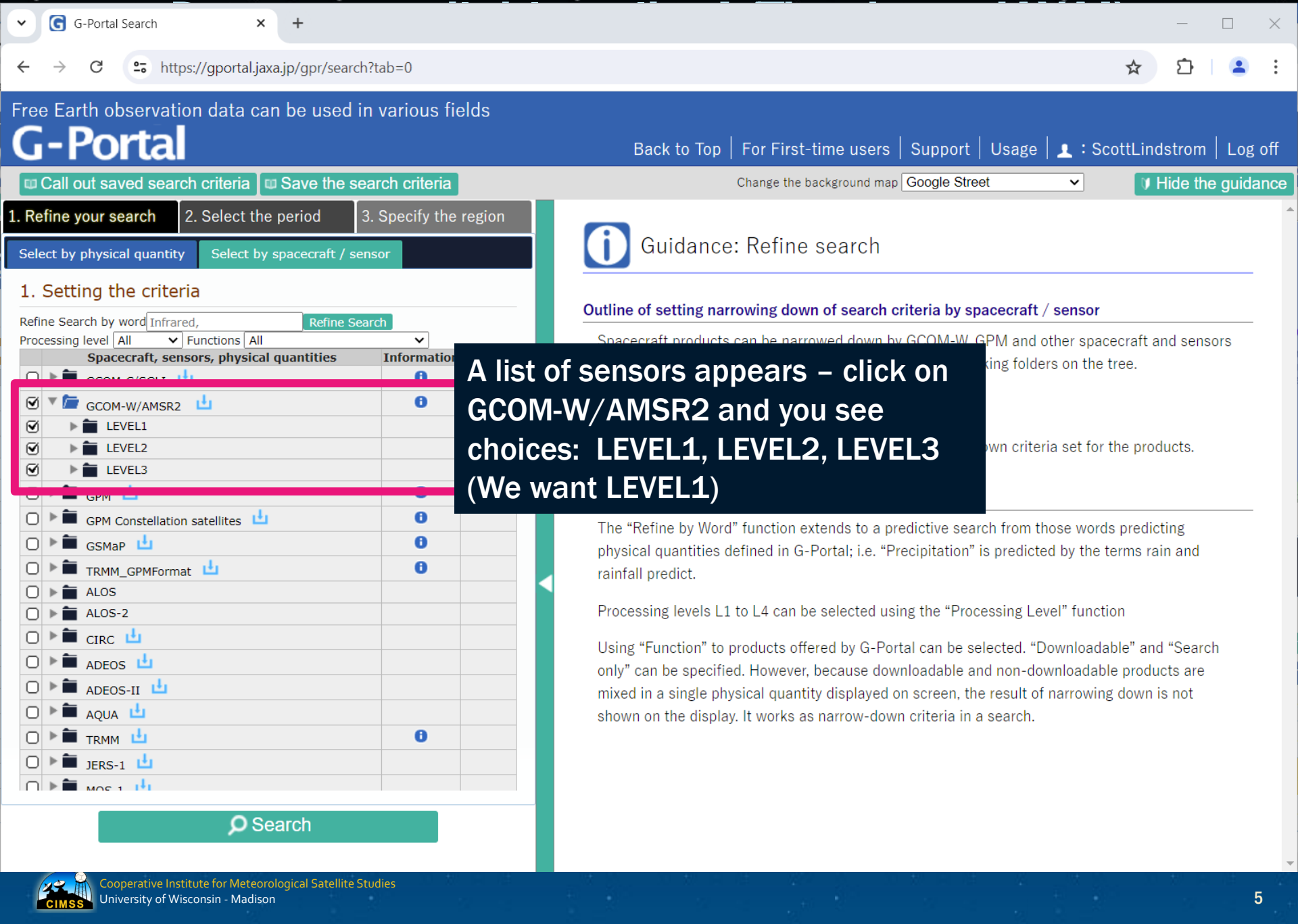



G-Portal Search
https://gportal.jaxa.jp/gpr/search?tab=0
Free Earth observation data can be used in various fields
G-Portal
Back to Top | For First-time users | Support | Usage | : ScottLindstrom | Log off
Call out saved search criteria
Save the search criteria
Change the background map
Google Street
Hide the guidance
1. Refine your search
2. Select the period
3. Specify the region
Select by physical quantity
Select by spacecraft / sensor
1. Setting the criteria
Refine Search by word
Sea
Refine Search
Atmosphere
Precipitation
Cloud
Water Vapor
Radiation Balance
Aerosol
Radiance
Atmospheric Corrected Reflectance
Cryosphere
Sea Ice
Snow Pack
Terrestrial
Snow Pack
Soil Moisture
Radiance/Reflectance
Vegetation
Radiance
Ocean
Sea Surface Temperature
Sea Surface Wind
Ocean Color
Others
Radiance/Brightness Temperature
Search
Guidance: Refine search
Outline of narrowing down the criteria by physical quantity
You can refine products by physical quantity such as precipitation, sea surface temperature and
be changed corresponding to the
This is the page that shows up after you log in. We want to select data by spacecraft/sensor
So click on that
Group 1
Group 2
Terrestrial
Snow Pack
Snow Depth
Snow Grain Size
Snow Covered Are
Land-Surface Tem
Cloud
Cloud Mask/Classification/Flag
Cloud Phase
Soil Moisture
Soil Moisture
Cloud Partical Effective Radius/Shape
Radiance/Reflectance
Atmospherically C
Surface Reflectanc
Cloud Liquid Water Content/Cloud Ice Water Content
Vegetation
Vegetation Parame
Normalized Differe
Index
Elements Of Cloud Top (Temperature/Atmospheric Pressure/Attitude)
Enhanced Vegetat
Shadow Index
Classified Cloud Fraction
Fraction Of Absorb
Photosynthetically
Radiation
Water Cloud Optical Thickness
Ice Cloud Optical Thickness
Cloud Extinction Coefficient
Leaf Area Index
Doppler Velocity
Above-Ground Bio
Water Vapor
Integrated Water Vapor
Vegetation Roughr
Radiation Balance
Latent Heating Profiles
Radiance
Top of Atmosphere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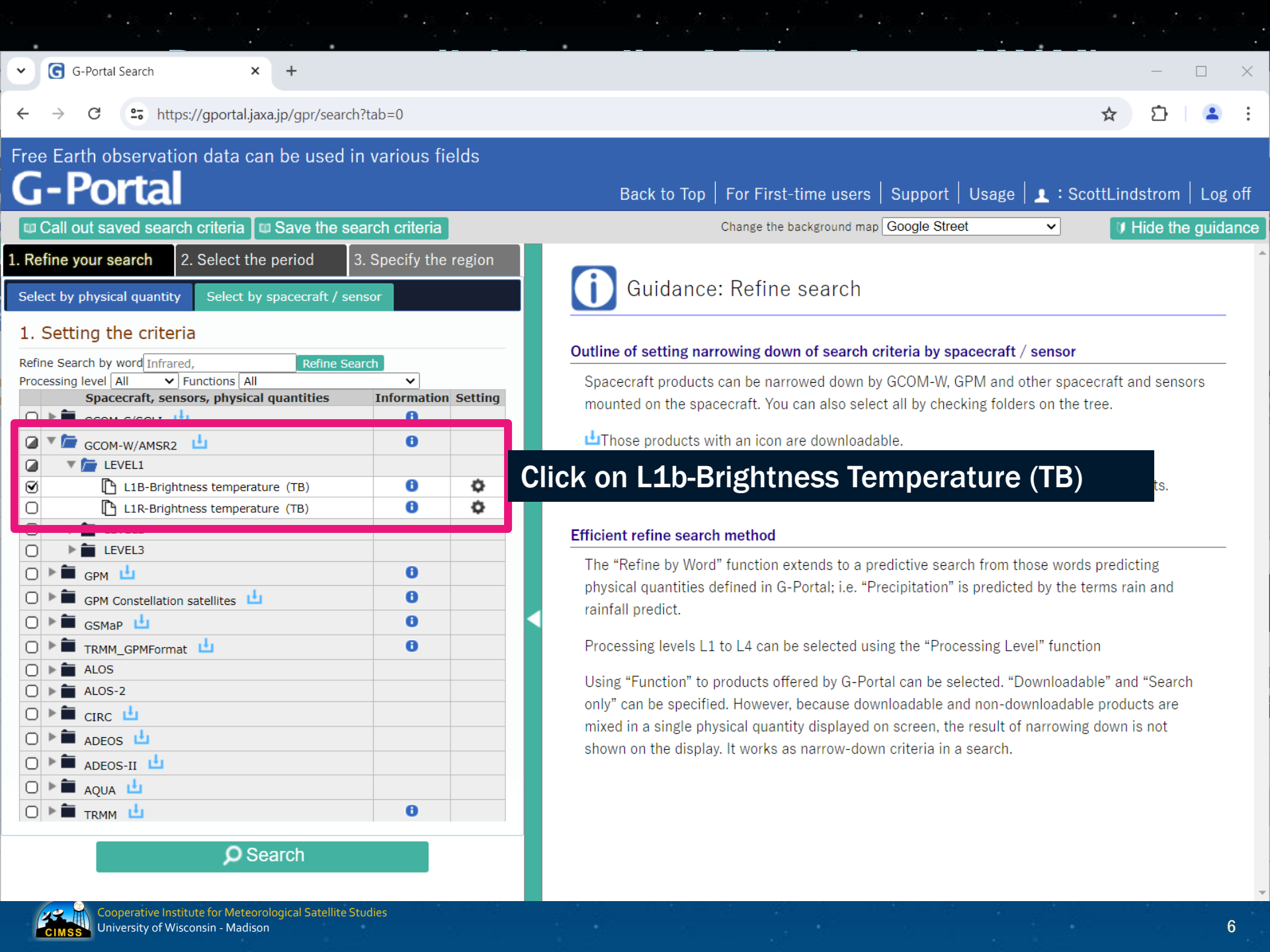
Hide the guidance
1. Refine your search
2. Select the period
3. Specify the region
Select by physical quantity
Select by spacecraft / sensor
1. Setting the criteria
Refine Search by word Infrared,
Refine Search
Processing level All
Functions All
Spacecraft, sensors, physical quantities
Information
GCOM-W/AMSR2
LEVEL1
LEVEL2
LEVEL3
GPM
GPM Constellation satellites
GSMaP
TRMM_GPMFormat
ALOS
ALOS-2
CIRC
ADEOS
ADEOS-II
AQUA
TRMM
JERS-1
Search
A list of sensors appears – click on GCOM-W/AMSR2 and you see choices: LEVEL1, LEVEL2, LEVEL3 (We want LEVEL1)
Guidance: Refine search
Outline of setting narrowing down of search criteria by spacecraft / sensor
Spacecraft products can be narrowed down by GCOM-W, GPM and other spacecraft and sensors
king folders on the tree.
own criteria set for the products.
The “Refine by Word” function extends to a predictive search from those words predicting physical quantities defined in G-Portal; i.e. “Precipitation” is predicted by the terms rain and rainfall predict.
Processing levels L1 to L4 can be selected using the “Processing Level” function
Using “Function” to products offered by G-Portal can be selected. “Downloadable” and “Search only” can be specified. However, because downloadable and non-downloadable products are mixed in a single physical quantity displayed on screen, the result of narrowing down is not shown on the display. It works as narrow-down criteria in a search.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3. Specify the region
Select by physical quantity
Select by spacecraft / sensor
1. Setting the criteria
Refine Search by word
Infrared,
Refine Search
Processing level
All
Functions
All
Spacecraft, sensors, physical quantities
Information
Setting
GCOM-W/AMSR2
LEVEL1
L1B-Brightness temperature (TB)
L1R-Brightness temperature (TB)
LEVEL3
GPM
GPM Constellation satellites
GSMaP
TRMM_GPMFormat
ALOS
ALOS-2
CIRC
ADEOS
ADEOS-II
AQUA
TRMM
Search
Guidance: Refine search
Outline of setting narrowing down of search criteria by spacecraft / sensor
Spacecraft products can be narrowed down by GCOM-W, GPM and other spacecraft and sensors mounted on the spacecraft. You can also select all by checking folders on the tree.
Those products with an icon are downloadable.
Click on L1b-Brightness Temperature (TB)
Efficient refine search method
The “Refine by Word” function extends to a predictive search from those words predicting physical quantities defined in G-Portal; i.e. “Precipitation” is predicted by the terms rain and rainfall predict.
Processing levels L1 to L4 can be selected using the “Processing Level” function
Using “Function” to products offered by G-Portal can be selected. “Downloadable” and “Search only” can be specified. However, because downloadable and non-downloadable products are mixed in a single physical quantity displayed on screen, the result of narrowing down is not shown on the display. It works as narrow-down criteria in a search.

G-Portal Search

https://gportal.jaxa.jp/gpr/search?tab=0

Free Earth observation data can be used in various fields

G-Portal

Back to Top | For First-time users | Support | Usage | : ScottLindstrom | Log off

Call out saved search criteria | Save the search criteria

Change the background map: Google Street

Hide the guidance

1. Refine your search | 2. Select the period | 3. Specify the region

Specify the period | Specify the season

2. Specify the observation date

Search the period entered.

Enter the observation date (YYYY/MM/DD) or specify on the table below by clicking.

Observed Year, Month and Day: 2024/06/26 ~ 2024/06/29 Clear

Add observation date to search for

1987 Jul | 1989 Jul | 1991 Jul | 1993 Jul | 1995 Jul

GCOM-W1 AMSR-2

RESET

Search

After clicking on 'Select the period', choose the dates you want. In this case: 26-29 June; after that, click 'Specify the region'

Guidance: Specify the period

lite corresponding to

o search directly by

Add observation date

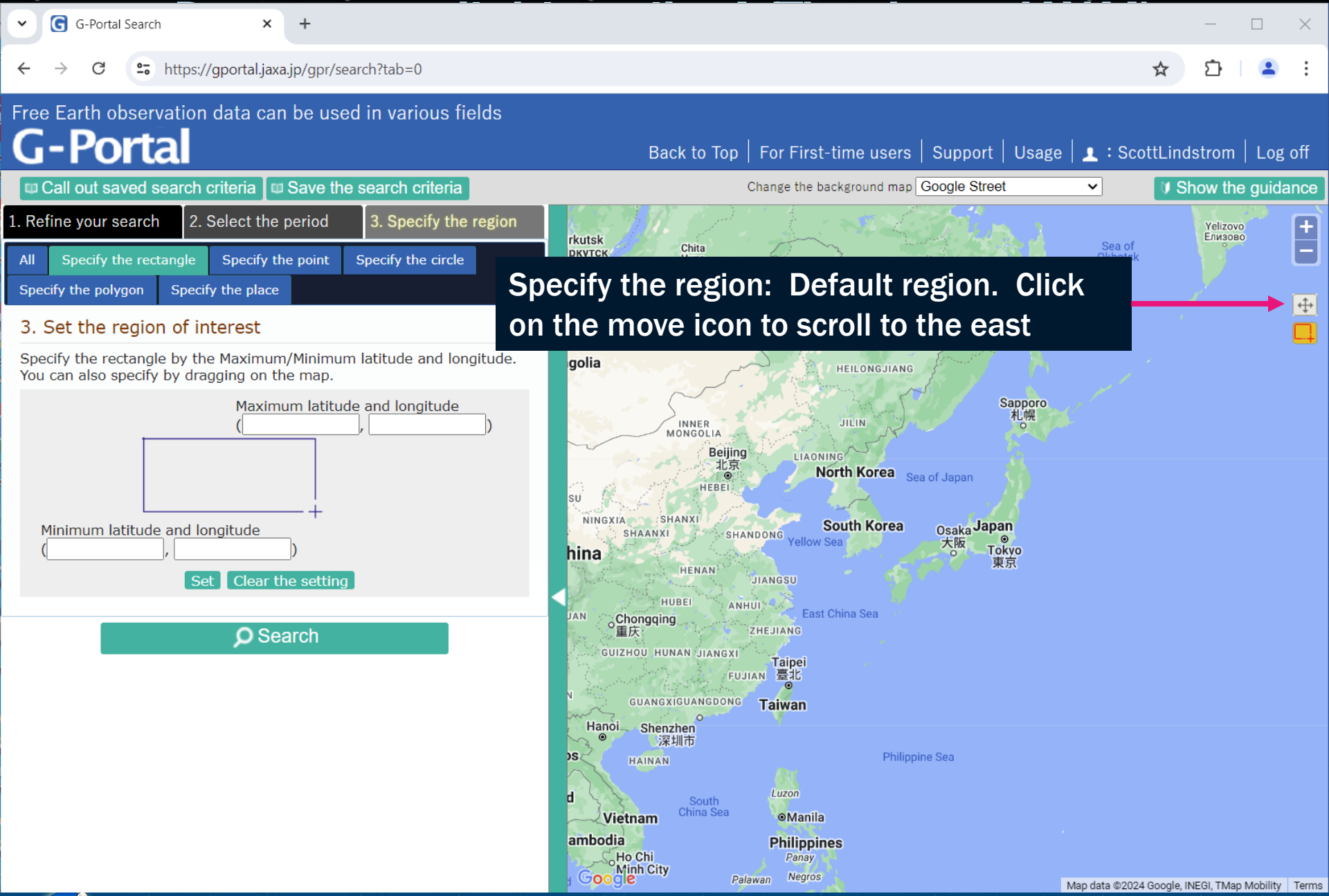
servation date is

automatically added.

When entering the period, the following date selection dialog is displayed. It is also possible to use this dialog.

Specify the period & Specify the season

"Specify the season" can be repeated over the year, for example "I want to download summer data every year".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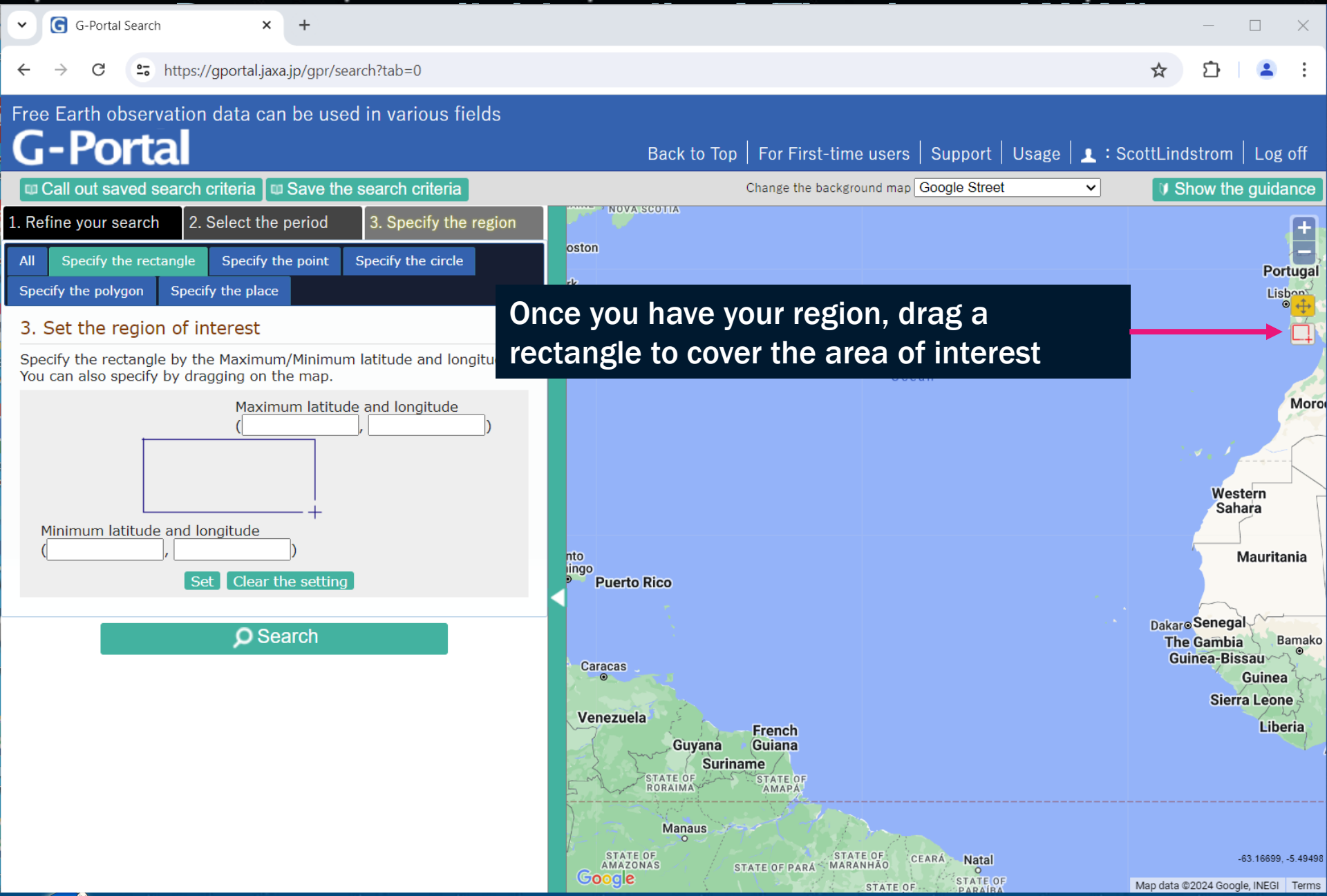
Save the search criteria
Change the background map
Google Street
Show the guidance
1. Refine your search
2. Select the period
3. Specify the region
All
Specify the rectangle
Specify the point
Specify the circle
Specify the polygon
Specify the place
3. Set the region of interest
Specify the rectangle by the Maximum/Minimum latitude and longitude.
You can also specify by dragging on the map.
Maximum latitude and longitude
Minimum latitude and longitude
Set
Clear the setting
Search
Specify the region: Default region. Click on the move icon to scroll to the east
Sapporo
札幌
Beijing
北京
North Korea
Sea of Japan
South Korea
Japan
Osaka
大阪
Tokyo
東京
Yellow Sea
East China Sea
Chongqing
重庆
Taipei
臺北
Taiwan
Shenzhen
深圳市
Hanoi
Philippine Sea
South China Sea
Vietnam
Manila
Philippines
Ho Chi Minh City
Google
Map data ©2024 Google, INEGI, TMap Mobility
Terms


G-Portal Search
https://gportal.jaxa.jp/gpr/search?tab=0
Free Earth observation data can be used in various fields
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Back to Top | For First-time users | Support | Usage | : ScottLindstrom | Log off
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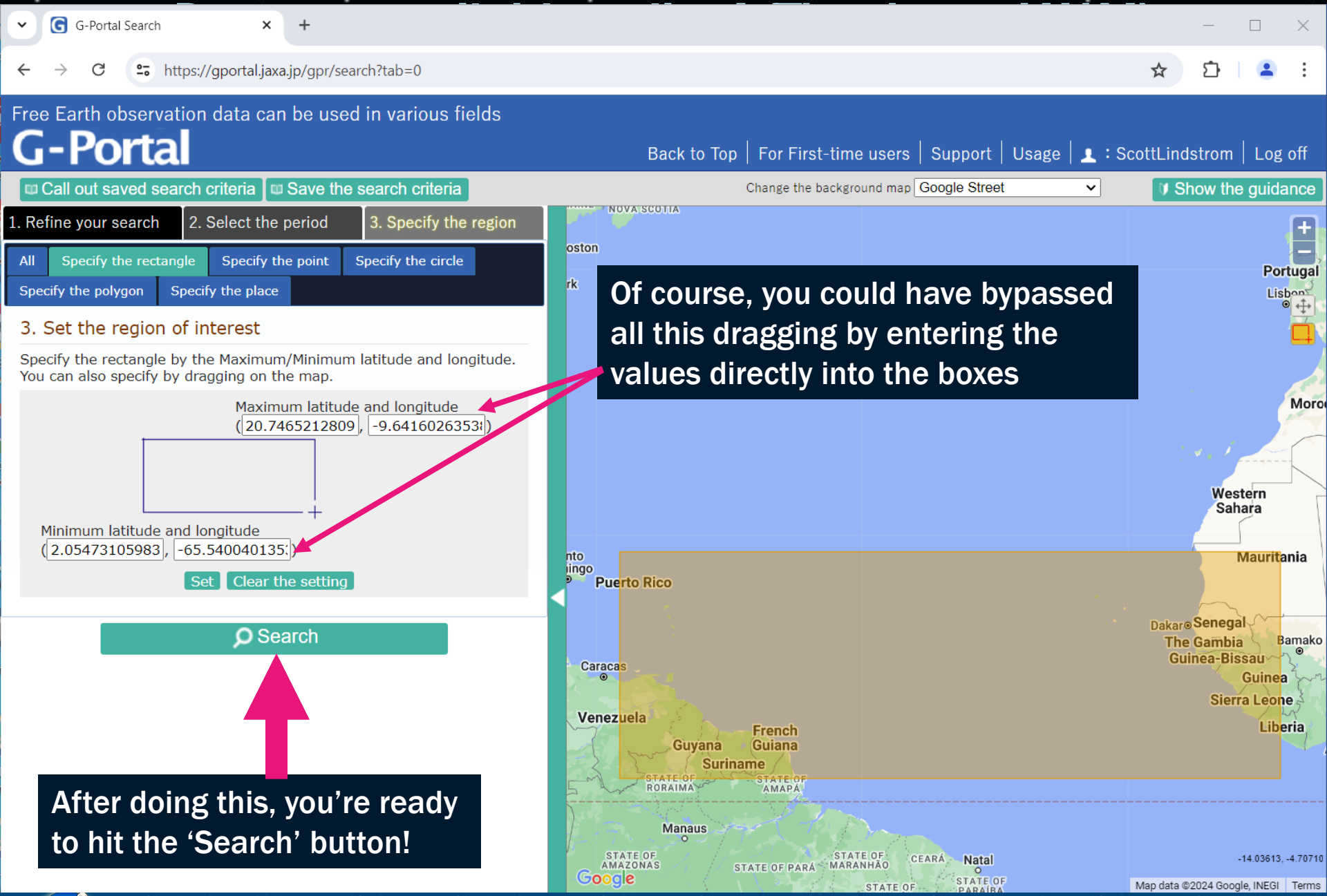
Save the search criteria
Change the background map
Google Street
Show the guidance
1. Refine your search
2. Select the period
3. Specify the region
All
Specify the rectangle
Specify the point
Specify the circle
Specify the polygon
Specify the place
3. Set the region of interest
Specify the rectangle by the Maximum/Minimum latitude and longitu
You can also specify by dragging on the map.
Maximum latitude and longitude
Minimum latitude and longitude
Set
Clear the setting
Search
Once you have your region, drag a rectangle to cover the area of interest
Portugal
Lisbon
Western Sahara
Mauritania
Puerto Rico
Dakar
Senegal
The Gambia
Guinea-Bissau
Bamako
Guinea
Sierra Leone
Liberia
Caracas
Venezuela
French Guiana
Guyana
Suriname
STATE OF RORAIMA
STATE OF AMAPÁ
Manaus
STATE OF AMAZONAS
STATE OF PARÁ
STATE OF MARANHÃO
CEARÁ
Natal
STATE OF PARAÍBA
Google
-63.16699, -5.49498
Map data ©2024 Google, INEGI
Terms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Save the search criteria
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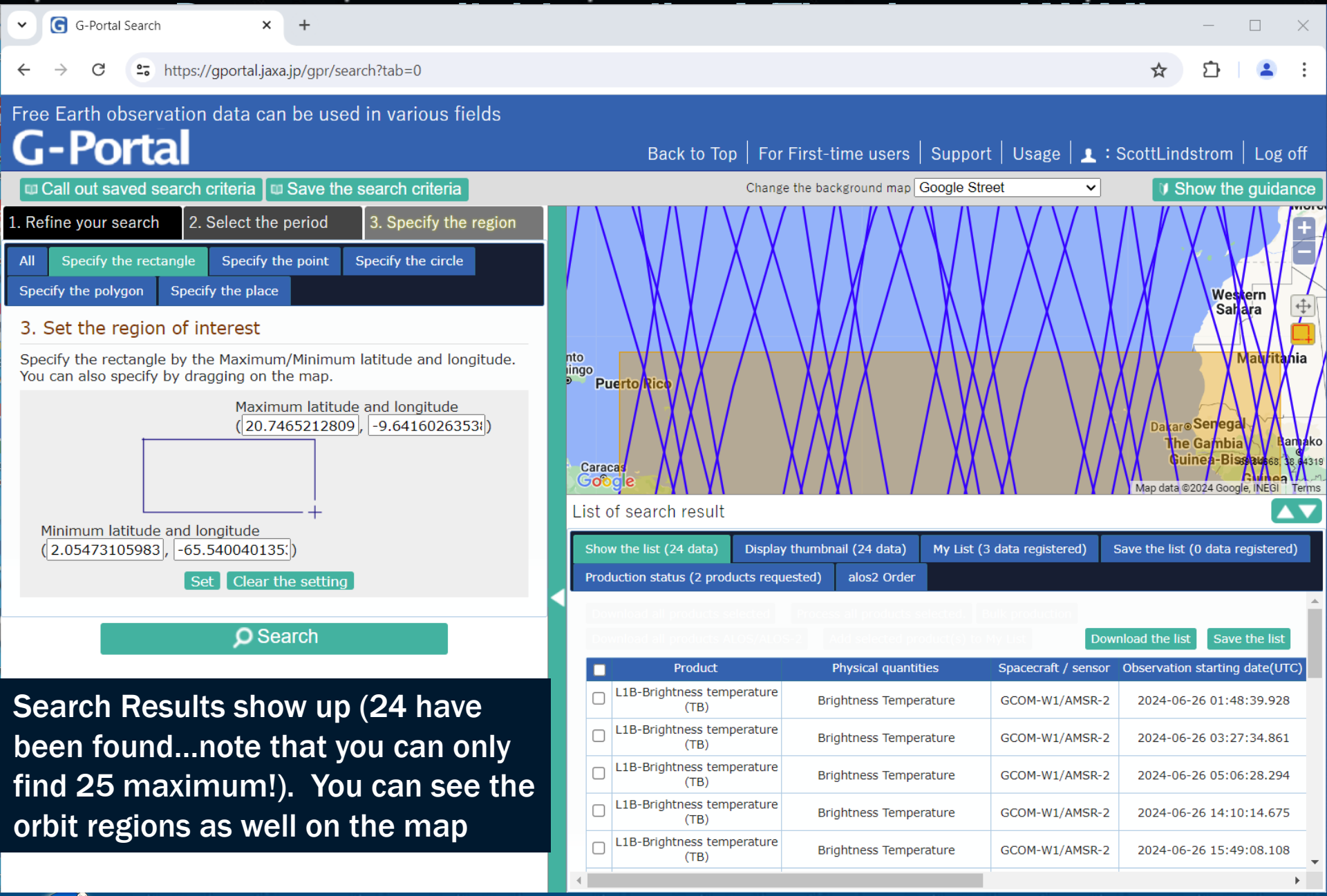
Google Street
Show the guidance
1. Refine your search
2. Select the period
3. Specify the region
All
Specify the rectangle
Specify the point
Specify the circle
Specify the polygon
Specify the place
3. Set the region of interest
Specify the rectangle by the Maximum/Minimum latitude and longitude.
You can also specify by dragging on the map.
Maximum latitude and longitude
(20.7465212809, -9.6416026353)
Minimum latitude and longitude
(2.05473105983, -65.540040135)
Set
Clear the setting
Search
Of course, you could have bypassed all this dragging by entering the values directly into the boxes
After doing this, you're ready to hit the 'Search' button!
Portugal
Western Sahara
Mauritania
Puerto Rico
Dakar
Senegal
The Gambia
Guinea-Bissau
Guinea
Sierra Leone
Liberia
Bamako
Caracas
Venezuela
Guyana
Suriname
French Guiana
Manaus
Natal
Google
Map data ©2024 Google, INEGI
Terms



Search Results show up (24 have been found...note that you can only find 25 maximum!). You can see the orbit regions as well on the map

G-Portal Search | SSEC Polar Orbit Tracks

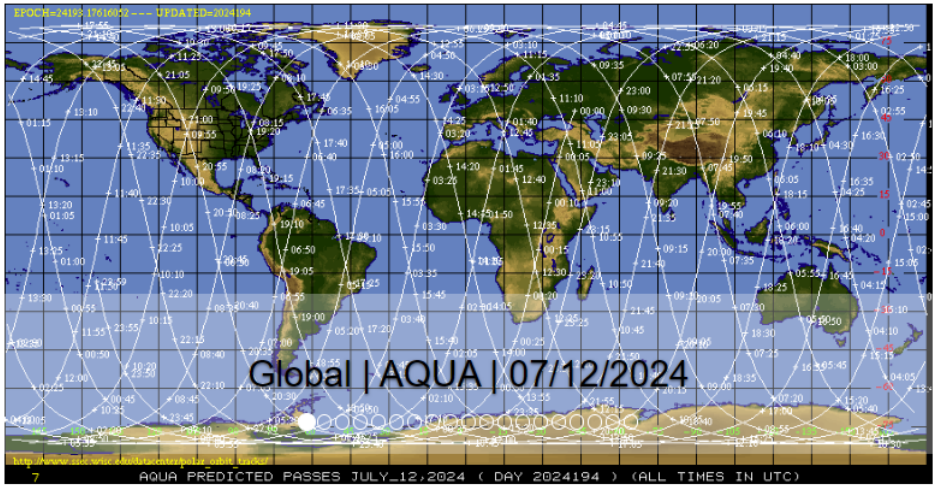
https://www.ssec.wisc.edu/datacenter/polar_orbit_tracks/

Polar Orbit Tracks / Global

Use this website to view precise observation times from Polar Orbiters

Historical | 7/9/2024 | 7/10/2024 | 7/11/2024 | 7/12/2024 | 7/13/2024 | 7/14/2024 | 7/15/2024

Global | North America | South America | Europe | Africa | Asia | Australia | Arctic | Antarctic | Hawaii | Honolulu | Miami | Puerto Rico | GOES-East | GOES-West | Himawari



View Image in New Tab

Default: Global view/Aqua

Orbit Track Links

List of Images

G-Portal Search | SSEC Polar Orbit Tracks

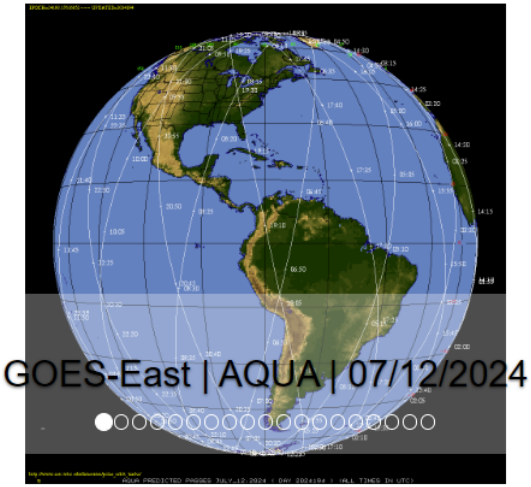
https://www.ssec.wisc.edu/datacenter/polar_orbit_tracks/#region:GOES-East;

Polar Orbit Tracks / GOES-East

Change to GOES-East

Historical | 7/9/2024 | 7/10/2024 | 7/11/2024 | 7/12/2024 | 7/13/2024 | 7/14/2024 | 7/15/2024

Global | North America | South America | Europe | Africa | Asia | Australia | Arctic | Antarctic | Hawaii | Honolulu | Miami | Puerto Rico | GOES-East | GOES-West | Himawari

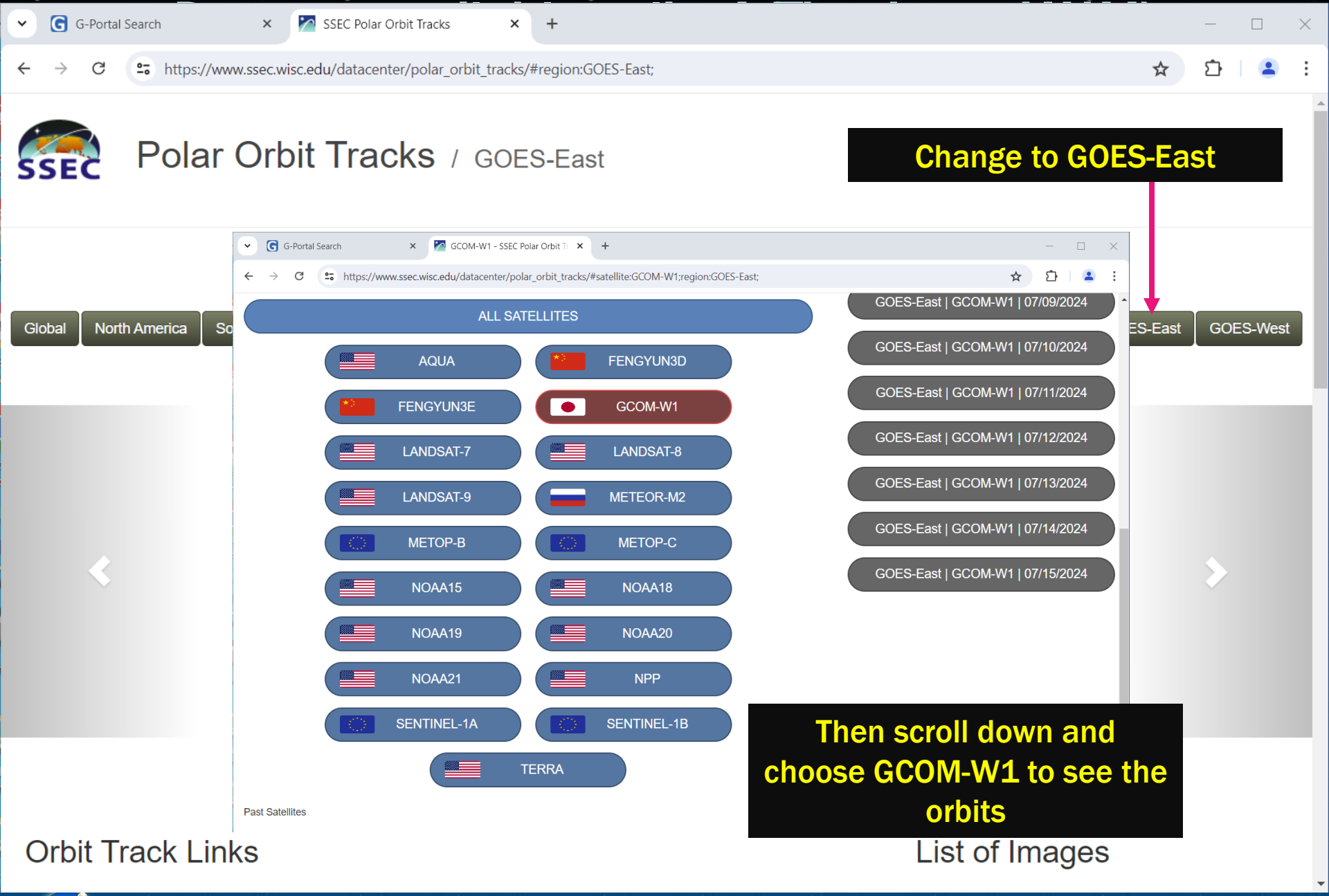


View Image in New Tab

Default: Global view/Aqua

Orbit Track Links

List of Images


G-Portal Search
SSEC Polar Orbit Tracks
https://www.ssec.wisc.edu/datacenter/polar_orbit_tracks/#region:GOES-East;
Polar Orbit Tracks / GOES-East
Change to GOES-East
Global
North America
GOES-East
GOES-West
G-Portal Search
GCOM-W1 - SSEC Polar Orbit
https://www.ssec.wisc.edu/datacenter/polar_orbit_tracks/#satellite:GCOM-W1;region:GOES-East;
ALL SATELLITES
AQUA
FENGYUN3D
FENGYUN3E
GCOM-W1
LANDSAT-7
LANDSAT-8
LANDSAT-9
METEOR-M2
METOP-B
METOP-C
NOAA15
NOAA18
NOAA19
NOAA20
NOAA21
NPP
SENTINEL-1A
SENTINEL-1B
TERRA
Past Satellites
GOES-East | GCOM-W1 | 07/09/2024
GOES-East | GCOM-W1 | 07/10/2024
GOES-East | GCOM-W1 | 07/11/2024
GOES-East | GCOM-W1 | 07/12/2024
GOES-East | GCOM-W1 | 07/13/2024
GOES-East | GCOM-W1 | 07/14/2024
GOES-East | GCOM-W1 | 07/15/2024
Then scroll down and choose GCOM-W1 to see the orbits
Orbit Track Links
List of Images

G-Portal Search | GCOM-W1 - SSEC Polar Orbit Tr

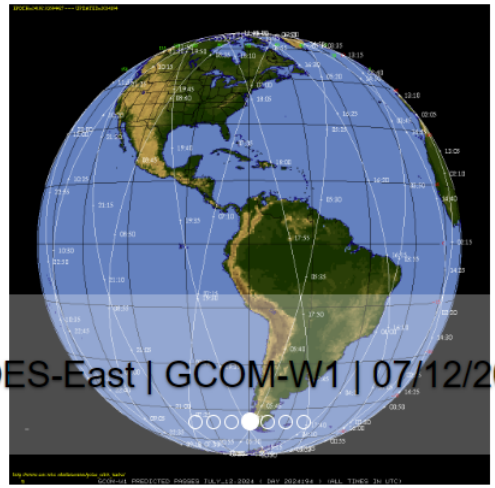
https://www.ssec.wisc.edu/datacenter/polar_orbit_tracks/#satellite:GCOM-W1;region:GOES-East;

Polar Orbit Tracks / GOES-East / GCOM-W1

Find the date needed in the archive

Back to All Satellites | GCOM-W1 ARCHIVE

Global | North America | South America | Europe | Africa | Asia | Australia | Arctic | Antarctic | Hawaii | Honolulu | Miami | Puerto Rico | GOES-East | GOES-West | Himawari

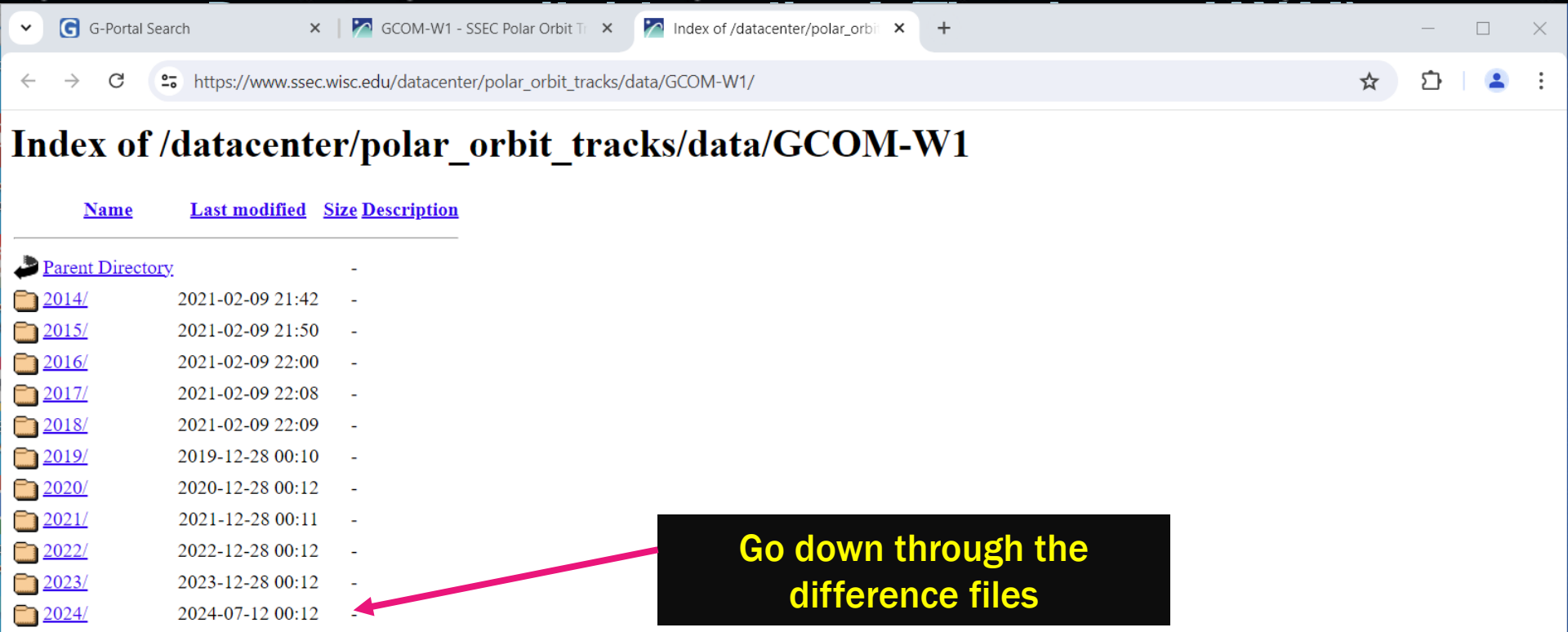


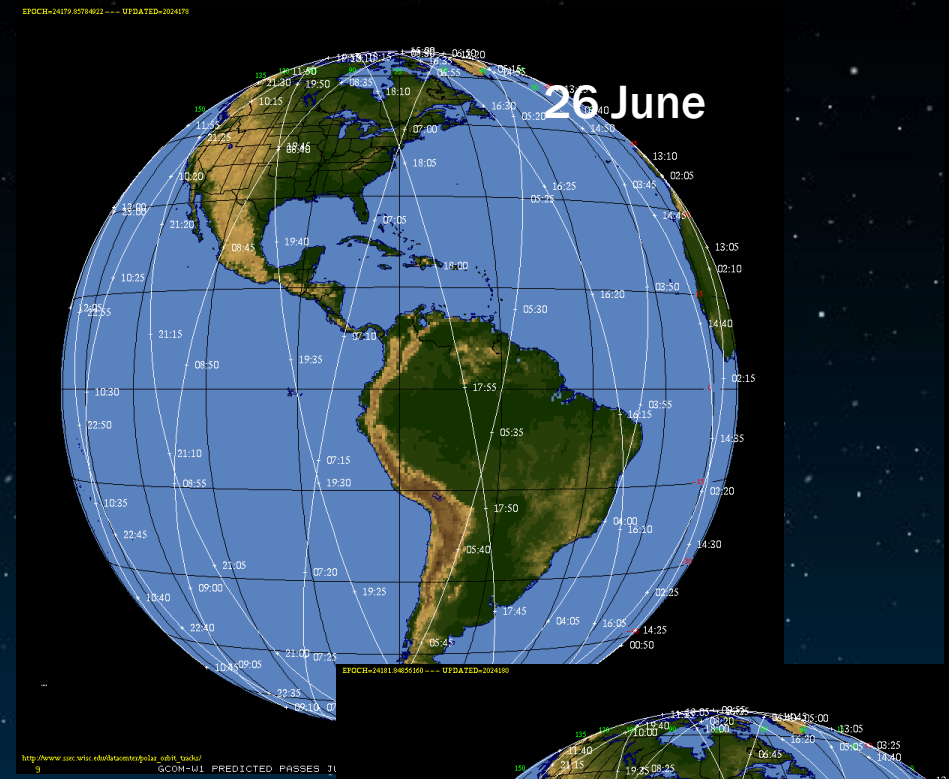
GOES-East | GCOM-W1 | 07/12/2024

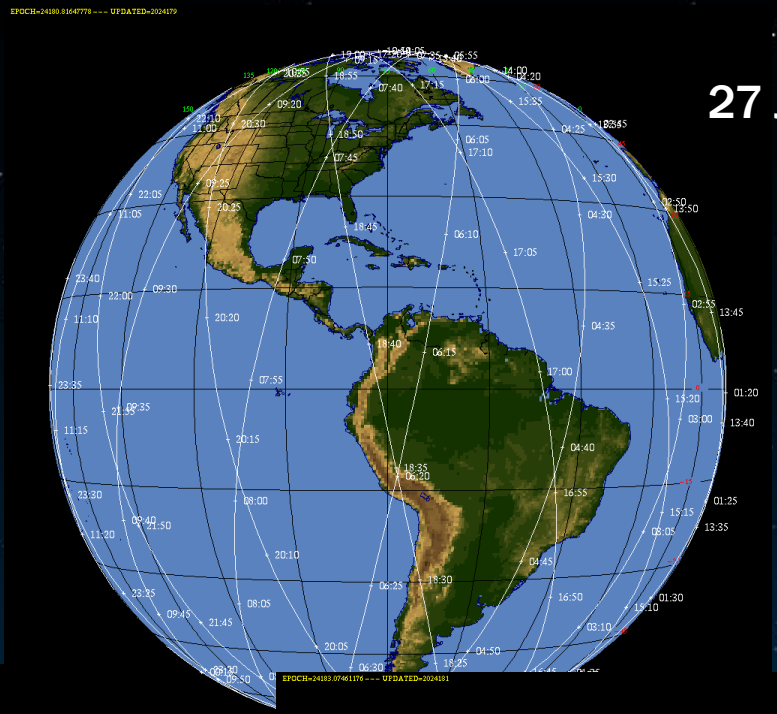
View Image in New Tab

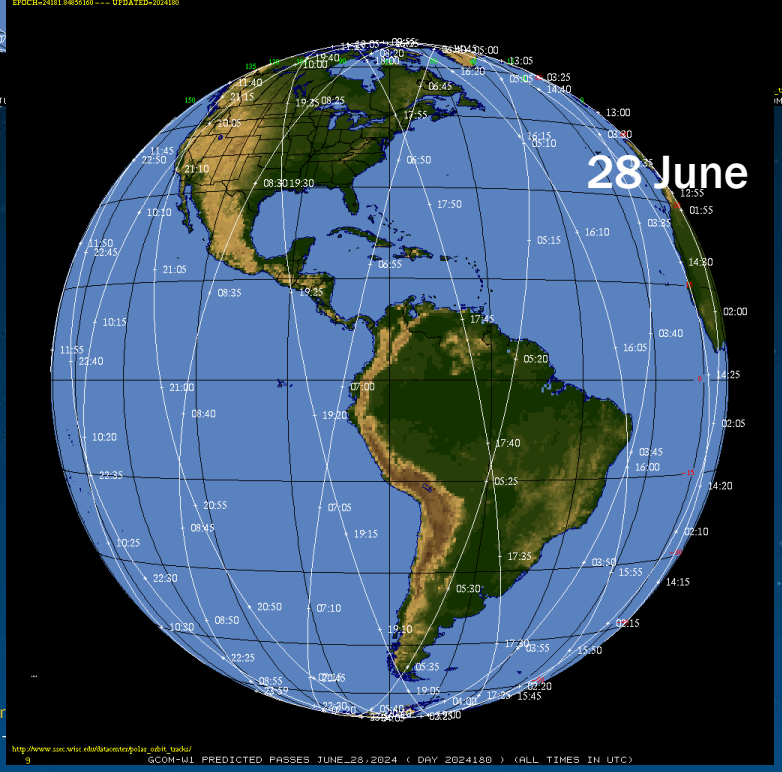
Orbit Track Links

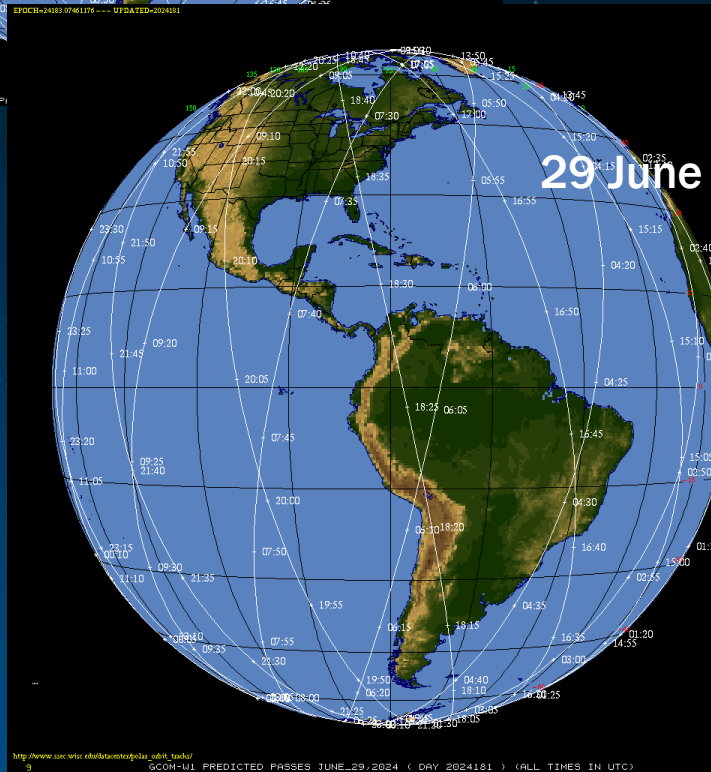
List of Images


G-Portal Search
GCOM-W1 - SSEC Polar Orbit Tr
Index of /datacenter/polar_orbi
https://www.ssec.wisc.edu/datacenter/polar_orbit_tracks/data/GCOM-W1/
Index of /datacenter/polar_orbit_tracks/data/GCOM-W1
Name Last modified Size Description
Parent Directory -
2014/ 2021-02-09 21:42 -
2015/ 2021-02-09 21:50 -
2016/ 2021-02-09 22:00 -
2017/ 2021-02-09 22:08 -
2018/ 2021-02-09 22:09 -
2019/ 2019-12-28 00:10 -
2020/ 2020-12-28 00:12 -
2021/ 2021-12-28 00:11 -
2022/ 2022-12-28 00:12 -
2023/ 2023-12-28 00:12 -
2024/ 2024-07-12 00:12 -
Go down through the difference files





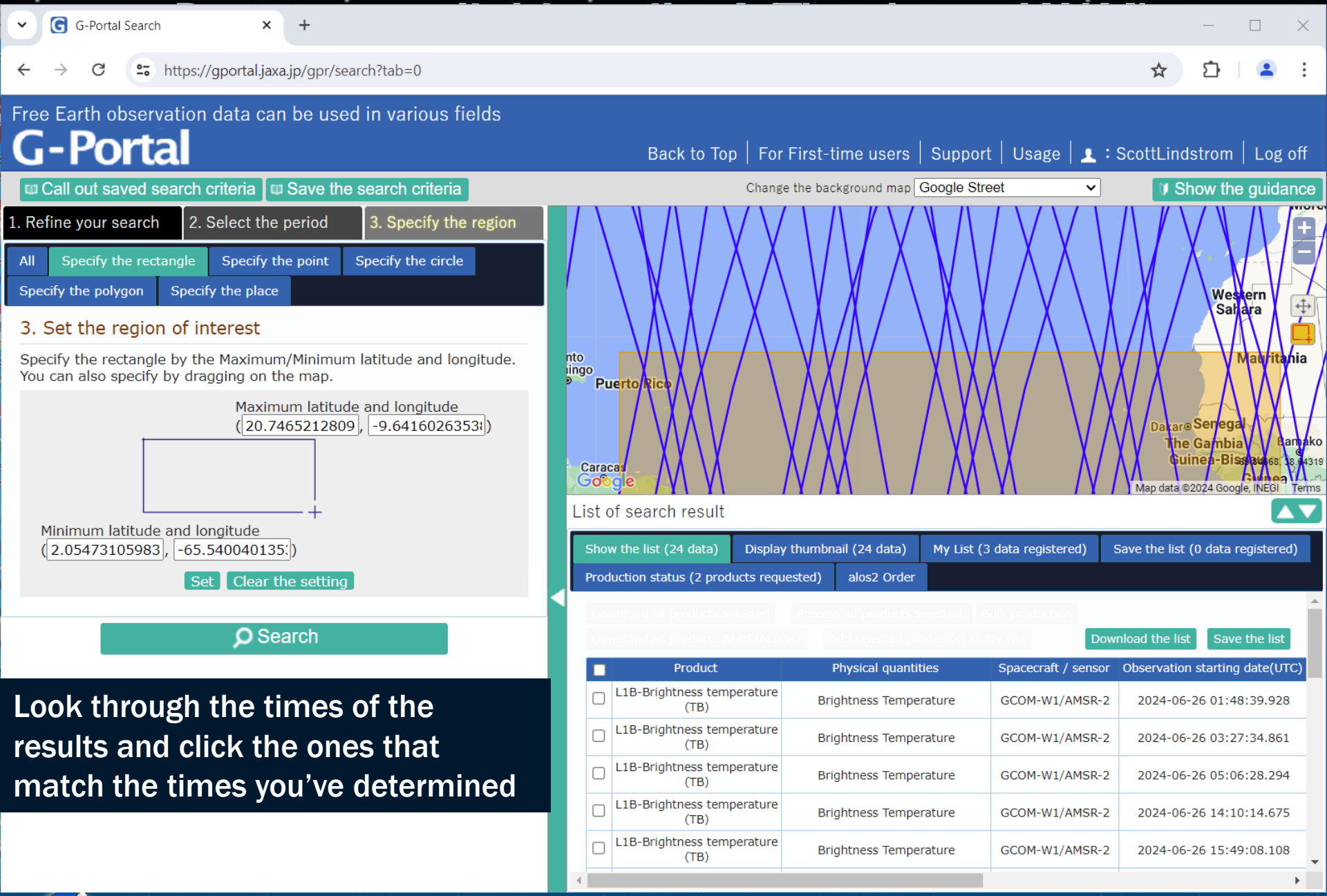




Cooperative Institute for
University of Wisconsin -

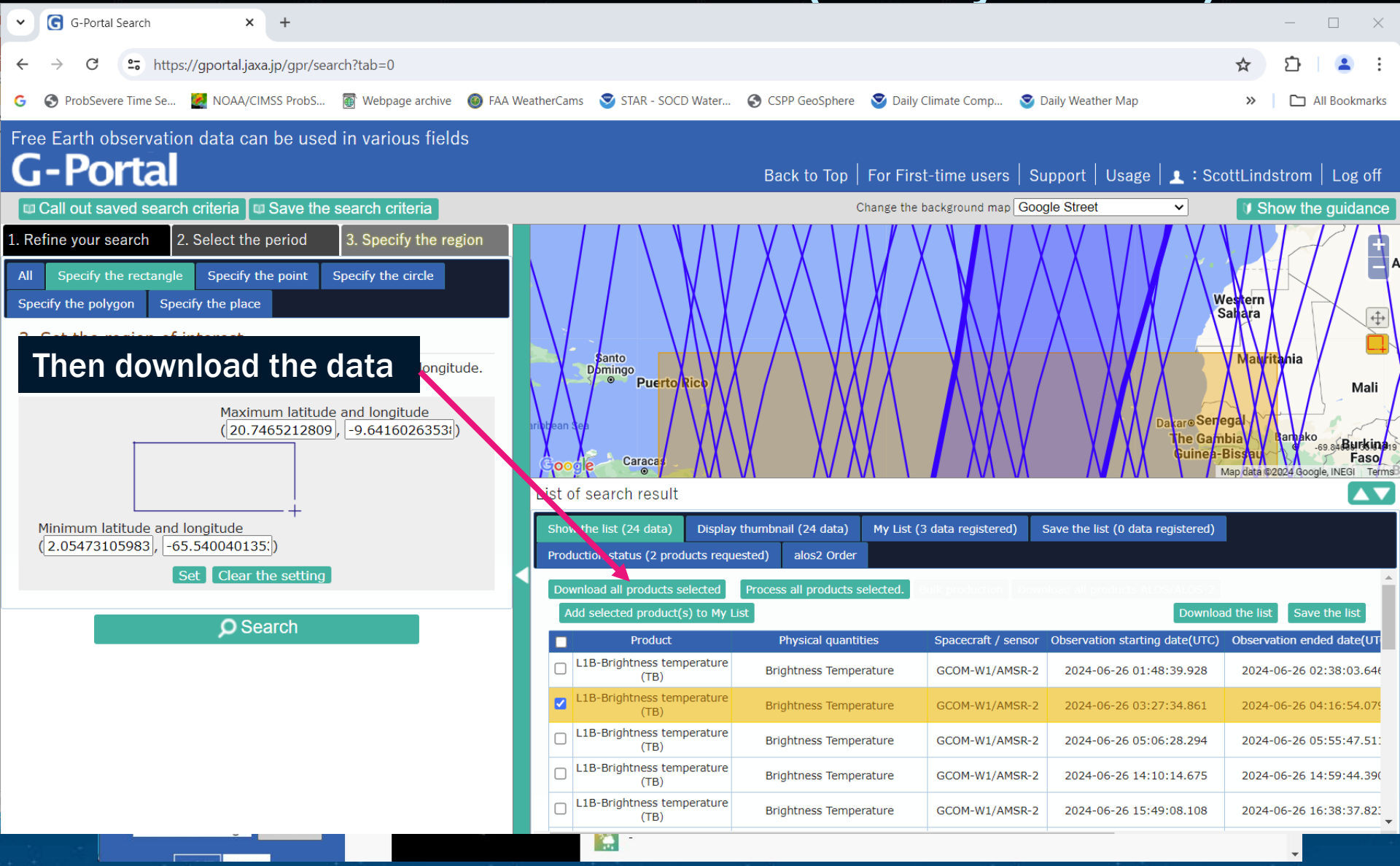
Based on those 4 scenes, choose the needed times for the data

- 26 June
  - 0350-0355 UTC; 1615-1620 UTC
- 27 June
  - 0432-0437 UTC; 1520-1525 UTC
- 28 June
  - 0332-0337 UTC; 1605-1610 UTC
- 29 June
  - 0420-0425 UTC; 1647-1652 UTC



Look through the times of the results and click the ones that match the times you've determined

Data are available online! (Thank you JAXA!)



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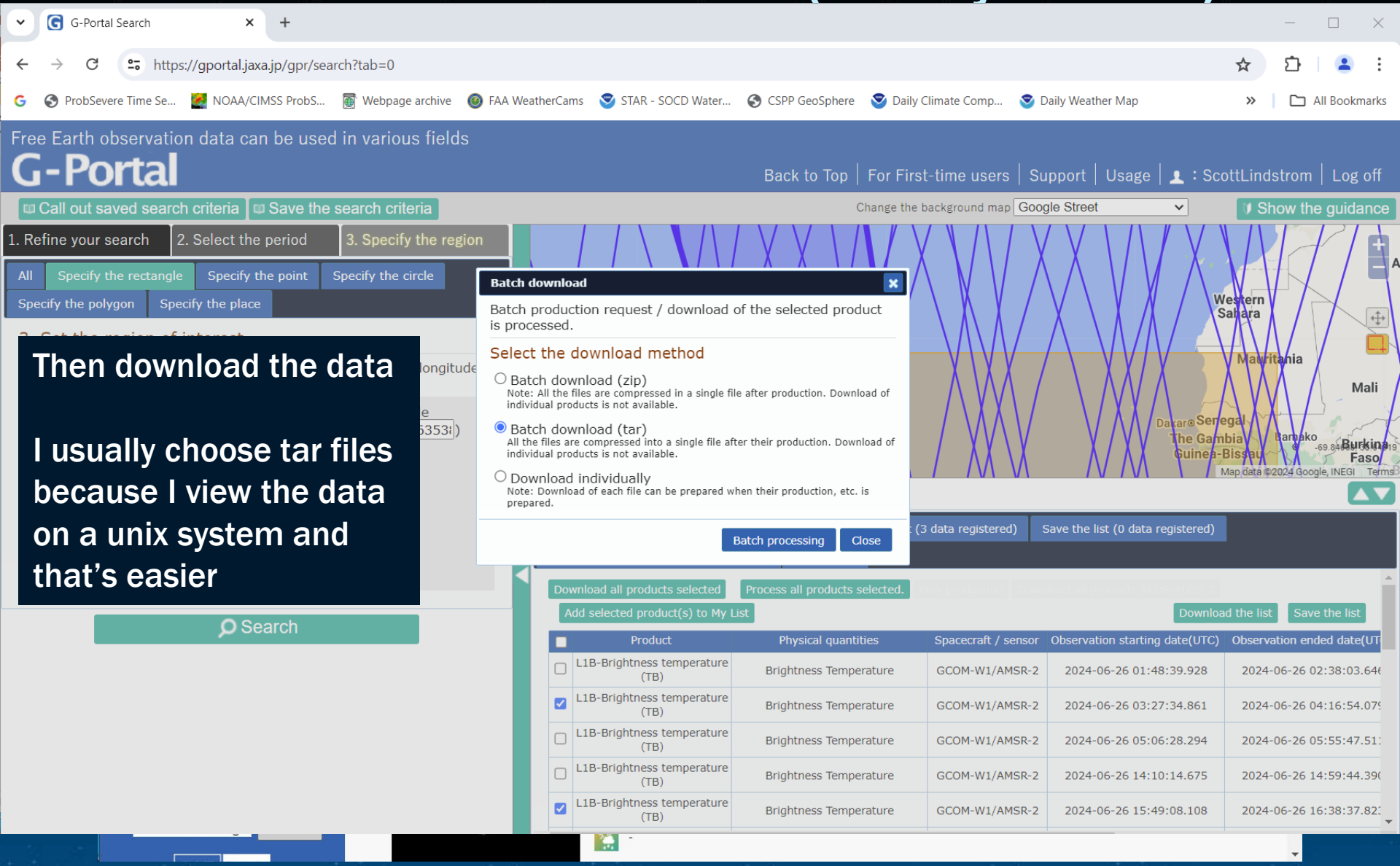

Then download the data

I usually choose tar files because I view the data on a unix system and that's easier

Data are available online! (Thank you JAXA!)