How to visualize Land Surface Temperature products

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How to visualize Land Surface Temperature products

This document describes how to search, download and process products using G-Portal. And this document introduces example of using the SGLI user tool from among various tools available from G-Portal. In this example, we use the SGLI user tool to display the products observed by GCOM-C, cut out any image, save them as an image data, and copy the image to clipboard.

In this explanation, the product of land surface temperature observed by GCOM-C on June 29, 2019 is used as an example.

1. Search and download products using G-Portal

(1) Click "Physical quantities" left pane on the top menu (Refer to Fig.1-1) and move to the search window shown the physical quantities tree (Refer to Fig.1-2).

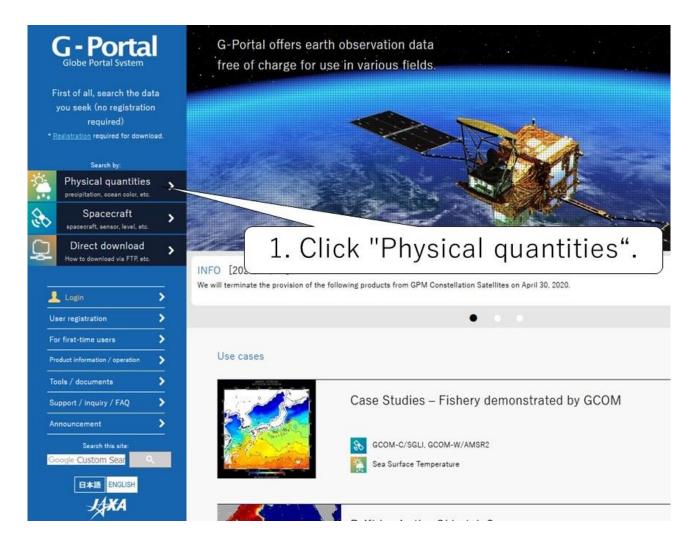


Fig.1-1. G-Portal top window

- (2) Each category shows the group list to physical quantities to a tree format on the search window.
 - Click "▶" on physical quantities group, and physical quantities in the group are shown.

You can refine products by word related to physical quantity such as precipitation, sea surface temperature and vegetation.

As an example, we will explain how to use the "Refine Search by word" function to narrow down to the physical quantity of "Land-Surface Temperature" (Refer to Fig.1-2).

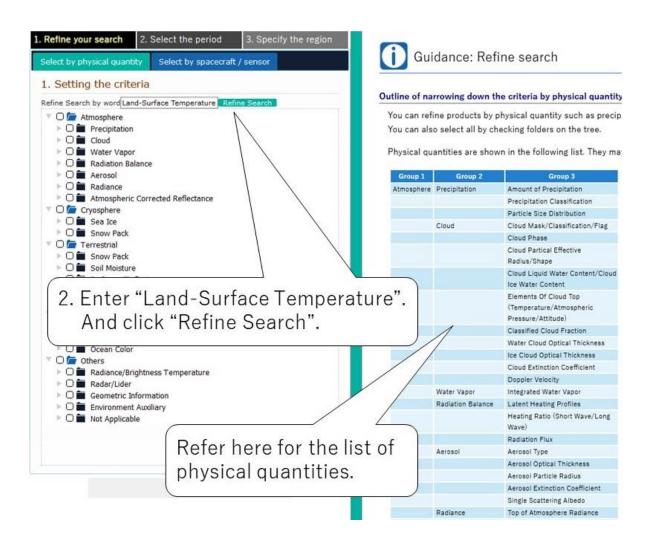


Fig.1-2 Example of the search by physical quantities(1)

(3) After checking "Land-Surface Temperature", click "2. Select the period" on the top of the window (Refer to Fig.1-3).

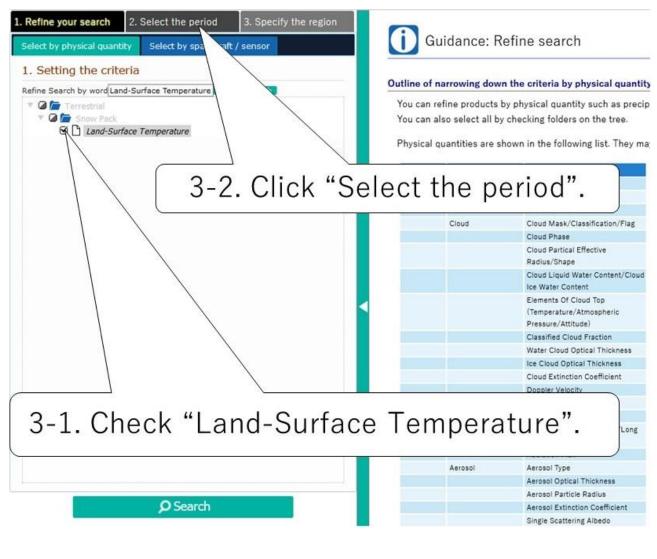


Fig.1-3 Example of the search by physical quantities(2)

(4) The left pane specifying "observation period" appears

As an example, specify the observation start date and end date to June 29, 2019 (Refer to Fig.1-4).

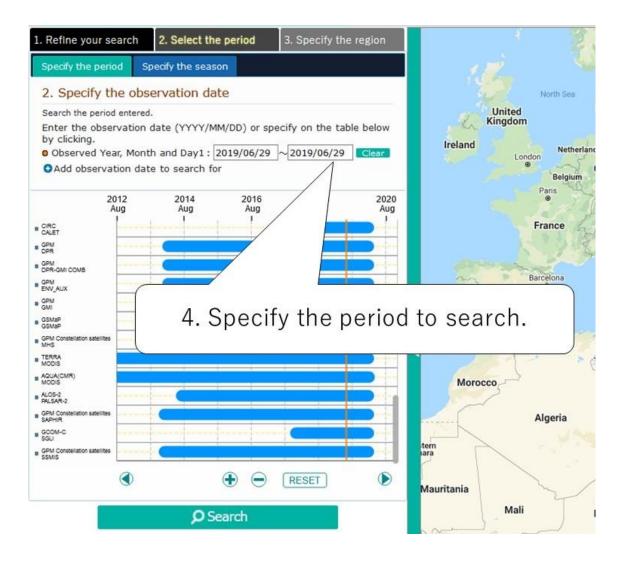


Fig.1-4 Screen of "Select the period" (1)

- Specify the period to search. There are two selection methods for the period as follows:
 - > Specify period: Enter the start date and end date of the observation.
 - Specify season: Search the specified month and date of multiple years. You can search the summer period of each year, for example.
- There are three ways on "Specify Observation Period" as follow.
 - Input by text
 - Input from the calendar UI
 - Input by bar-chart to observation period

(5) Click "3. Specify the region" on the top of a window (Refer to Fig.1-5).

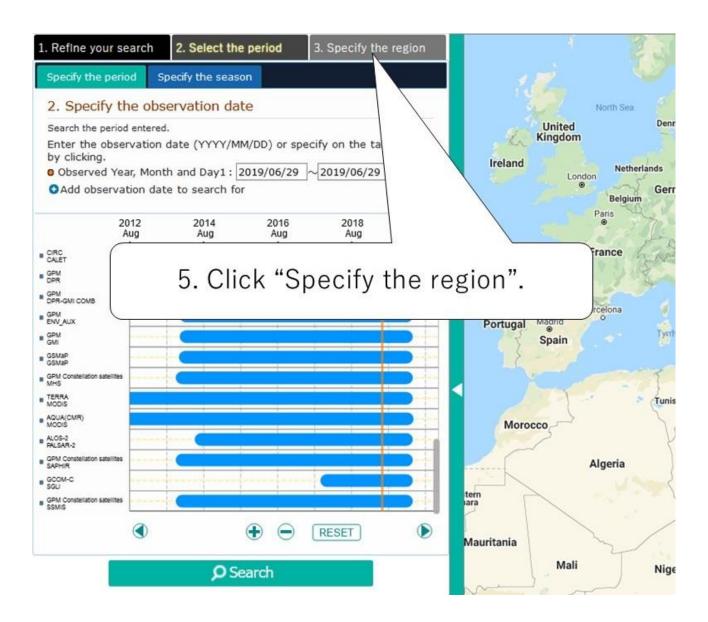


Fig.1-5 Move to Screen of "Specify the region"

(6) Click "Specify the rectangle", when appear a window specifying search region (Refer to Fig.1-6).

1. Refine your search 2. Select the period 3. Specify	y the region
All Specify the rectangle Specify the point Specify the	circle North Sea
Specify the polygon	United Denmark Kingdom
3. Set the region of interest	
Specify the rectangle by the Maximum/Minimum- You can also specify by dragging or	e London Berlin ague
6. Click	"Specify the rectangle"
Minimum latitude and longitude (), () (Set Clear the setting)	Croatia Se Italy Barcelona © Tugal Spain Tyrrhenian Sea
O Search	Tunisia Mediterranean
Fig.1-6 Screen of "S	Specify the rectangle" (1)

(7) The "Specification by the rectangle" has a "method of specifying from a map" and a "method of specifying with a value".

As an example, specify the observation region from the map. After specifying the observation region, click the "Search" button to start the search (Refer to Fig.1-7-1).

■ A click of "Clear" will clear the value inputted into the text box and selection on the map.

1. Refine your search	2. Select the period	3. Specify the region		Sea of Okhotsk
All Specify the rectan	gle Spe Specify the 7-1 Cli	ck the "Select R	ectangle" button.	
3. Set the region of	of interest by the Maximum/Minimum Ia	atitude and longitude.	Sappore	
	ne rectangle of t ant to observe or	-	h Korea Sea of Japan Seoul 서울	
Minimum latitude and (25.76691192275),			uth Korea Nagovo Japan 名古屋 の Osaka 東京 大阪	
	Set Clear the setting		7-3 Click the "Searc	h" button.
	O Search			

Fig.1-7-1 Screen of "Specify the rectangle" (2)

[Additional Explanation]

As an additional explanation, the following describes how to respond when the message shown in Fig.1-7-2 is displayed.

Message shown in Fig.1-7-2: "Too many search results. Please narrow down the search criteria such as period and range and try again."

1. Refine your search 2. Select t	he period	3. Specify the region	h Korea	ea of Japan		Đ
All Specify the rectangle Speci	fy the point	Specify the circle	Seoul 서울 ®			
Specify the polygon Specify the p	lace		th Korea		ikyo	4
3. Set the region of interest	Message		×	+ 150	原	
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			Close	list Displa	ay thumbnail 🛛 🛚	1y List (login rei
			Producti	on status (logir	n required)	
Minimum latitude and longitude (26.71289859771, 129.1113283	125() ar the setting					
Q	Search					



- Cause and avoidance method
 - > Due to the long observation period set, the search limit was exceeded.
 - ♦ Avoidance 1: Shorten the observation period on the "2. Select the period" screen.
 - Avoidance 2: Increase the number of search results that can be displayed (Refer to Fig.1-7-3).
 - > The observation region was too large and the search limit was exceeded.
 - ♦ Avoidance 1: Narrow the observation region specification on the "3. Specify the region" screen.
 - Avoidance 2: Increase the number of search results that can be displayed (Refer to Fig.1-7-3).
 - > Unnecessary products were included in the satellite/sensor products to be searched.
 - Avoidance 1: Set conditions for narrowing down satellite products (Refer to Fig.1-7-4).
 - Avoidance 2: Increase the number of search results that can be displayed (Refer to Fig.1-7-3).



Fig.1-7-3 The number of search results to display

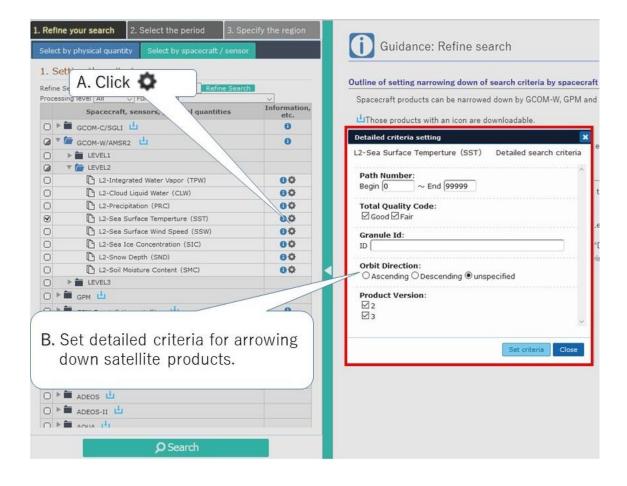


Fig.1-7-4 Detailed criteria setting

- (8) When the search is performed, the search result screen as shown in Fig. 1-8-1 is displayed.
 - If the same physical quantity has been calculated from observation data from multiple satellite sensors, all applicable products are displayed on the search result screen (Refer to Fig.1-8-1-A).
 - Click the "Details" button in the list of search result (Refer to Fig.1-8-1-B).
 Detailed information will be displayed in a separate window (Refer to Fig.1-8-2).

Specify the rectangle Specify the point Specify the circle		Labrador See		Norway and Dermark	Finland		Rutsi	• 2.75		
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Maximum latitude and longitude				Ruh	Nomenia	Uzbekisten kyrgyzeten				
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		No Atla Oce	ntic	Turisie	Syria	Afghanistan		China	Sout	th Korea
			Morocco	Algeria	- and	Iran Pakistan N	2	J.K.A		18 23242,
Minimum latitude and longitude 37.75913120857, -4.65820312495)	Google		Western Sahara	Libya	Egypt Saudi Arabia	J-2-S	Tal.	Map data 8	2020 Google, INEC	
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		aren Hesser		Allectric	edi min					,
	1	Product	Physical quantities Snow Grain Size/Snow And Ice Surface Temperature/Land- Surface Temperature/Land-	Spacecraft / sensor	Observation starting date(UTC	Observation ended date(UTC) Details	Data ma	nipulation Processing	Ad
		Product L2-SIPR	Physical quantities Snow Grain Size/Snow And Ice Surface Temperature/Land- Surface Temperature/Sea Ice Surface Temperature Surface Temperature/Land- Surface Temperature/Sea Ice	Spacecraft / sensor GCOM-C/SGLI	Observation starting date(UTC 2019-06-29 18:24:14.40	Observation ended date(UTC 2019-06-29 20:08:09.60) Details	Data ma	nipulation Processing Processing	
		Product L2-SIPR L2-SIPR	Physical quartities Snow Grain Sizel Snow And Les Surface Temperature[Land- Surface Temperature] Snow Grain Sizel Snow And Les Surface Temperature Surface Temperature Surface Temperature Soft Grain Sizel Snow And Les Surface Temperature	Spacecraft / sensor GCOM-C/SGLI GCOM-C/SGLI	Observation starting date(UTC 2019-06-29 18:24:14.40 2019-06-29 11:57:07.20	Observation ended date(UTC 2019-06-29 20:08:09.60 2019-06-29 12:02:42.00) Details Details	Data ma Download Download Download	nipulation Processing Processing	Ad Ad

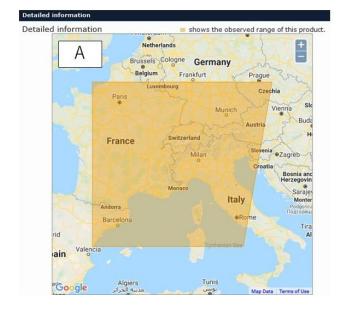


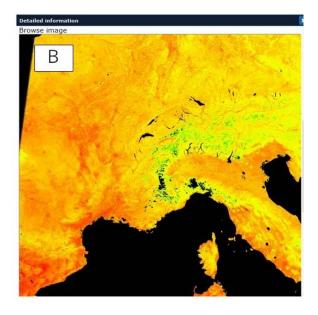
List of search result

Show the	e list (15 data)	Display thumbnail (15 data) My	List (login required)	Save the list (login required)	Production status (login required)		
	Product 💠	Physical quantities	Spacecraft / senso	or Observation starting date(UT	C Observation ended date(UTC)	Details	Data manipulation	My List
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 20:05:16.80	2019-06-29 21:46:15.60	Details	Download Processing	Add to My List
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 10:19:19.20	2019-06-29 10:24:46.80	Details	Download Processing	Add to My List
	L2-SIPR	Snow Grain Size/Snow And I Surface Temperature/Land Surface Temperature/Sea Io Surface Temperature		2019-06-29 20:05:16.80	2019-06-29 21:46:15.60		Download Processing	Add to My List
	L2-SIPR	Snow Grain Size/Snow And I Surface Temperature/Land Surface Temperature/Sea Is	- CCOM-C/SCIT	2019-06-29 10:19:19.20	2019-06-29 10:24:46.80	7 \	Download Processing	Add to My List
	L2-SIPR		ng by physica us products.	al quantities will	search 10:24:46.80		Download Processing	Add to My List
	L3-LST	La			00:05:34.8		Download	Add to My List
	L3-LST	cand-Surface Temperature	GCOM-C/SGLI	2019-06-29 00:04:58.80	2019-06-30 00:05:34		nload Processing	Add to My List
	L3-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 00:01:22.80	2019-06-29 23:35:7		Download	Add to My List
	L3-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 00:01:22.80	2019-06-29 23:35		ad Processing	Add to My List
	L3-SIST	Snow And Ice Surface Temperature/Land-Surfac Temperature/Sea Ice Surfa Temperature	B. Click "De	tails" to display t	he detailed inform	nation	of the product.	udd to My List
	L3-SIST	Snow And Ice Surface Temperature/Land-Surface Temperature/Sea Ice Surface Temperature		2019-06-29 00:04:48.00	2019-06-29 23:38:13.20	Details	Download Processing	Add to My List

Fig.1-8-1 Example of the list of search result

- An example of the detailed information screen is shown in Fig.1-8-2.
 - A. The observation region is displayed on the map.
 - B. A browse image will be displayed for products with browse images available. An image with "No Image" will be displayed if no browse images are available for that product.
 - C. To products on the browse images, the image pulldown appears. Browse (Browse or subbrowse) image switches.
 - D. Detailed information of the product will be displayed.





Close

	Image Browse	The display screen is switched by selecting.
	Granule ID	GC1SG1_20190629D01D_T0418_L2SG_LST_Q_1000
li	Processing Date (UTC)	2019-06-30 16:18:41.00
	Processing Level	L2
ОЬ	servation Starting Date (UTC)	2019-06-29 10:19:19.20
	bservation Ended Date (UTC)	2019-06-29 10:24:46.80
	Platform Short Name	GCOM-C
	Sensor	SGLI
	Sensor Operational Mode	NOMINAL
	Product File	https://gportal.jaxa.jp/download/standard/GCOM-C/GCOM-C.SGL /L2.LAND.LST_/1/2019/06/29 /GC1SG1_20190629D01D_T0418_L2SG_LST_Q_1000.h5
	Product size(MB)	41
	Product version	1
	Total Quality Code	Good
	Cloud Coverage (%)	2
	Compression	Compressed
	Physical Quantity	Land-Surface Temperature
	Product resolution	250m
	Map Projection	EQA
	Orbit Direction	Descending
	Tile number	0418
	Statistic period	01D

Fig.1-8-2 Example of the detailed information screen

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

As an example, download the product of land surface temperature observed by GCOM-C / SGLI (Refer to Figure 1-9-1).

- A. Click the "Download" button for the product.
- B. A window appears asking you to "open a file" or "save a file". Select "Save" and click "OK" button to save the downloaded file to your computer.

-	Product 6	isplay thumbnal (52 data) My List Physical quantities		eve the list (login required) Observation starting date(UTC	Production status (login requires		Data manipulation	Hy List			
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 11:57:07.20	2019-06-29 12:02:42.00	Details	Download Processing	Add to My			
	L2-L5T	Land-Surface Temperature	GCON-C/SGLI	2019-06-29 10:21:21.60	2019-06-29 12:05:16.80	Details	Download Processing	Add to My			
	L2-LST	Land-Surface Temperature	GCOM-C/SGL1	2019-06-29 08:41:31.20	2019-06-29 10:29:20.40	Dentelle	Download Processing	Add to My			
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 10:22:30.00	2019-06-29 12:07:19:20	Details	Download Processing	Add to My			
	L2-L5T	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 20:00:10.80	2019-06-29 21:42:32.40	Details	Download Processing	Add to Ny		GC1SG1_20190629D01D_T0418_L2SG_LST_Q_1000.h5 を開く	
	12-1.97	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 21:40:51.60	2019-06-29 23:22:19.20	Details	Download Processing	Add to Ny			
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	(Detail	Download Processing	Add to My		GC1SG1_20190629D01D_T0418_L2SG_LST_Q_1000.h5	
		A. Clie	ck "Do	ownload		-	Download Processo	Add to Ny		ファイルの種類: H5 ファイル (40.6 MB)	
							Download Procession	List Add to My		ファイルの場所: https://gportal.jaxa.jp	
	12-157	Land-Surface Temperature	GCON-C/SGL1	2019-06-29	20:08:13.20	Contract of	Download Processing	Add to My			
	12-157	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 20:04:58.80	460	The state	Download Procession	Add to My		このファイルをどのように処理するか違んでください	
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 21:45:54.00	2019-06-2	-	Download Processing	Add to Ny		○ プログラムで開く(Q): hdfview.bat (既定)	
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 08:38:42.00	2019-06-29 10:24:18.00	1		Add to Ny		 ファイルを保存する(S) 	
	L2-L5T	Land-Surface Temperature	GCOM-C/SGL1	2019-06-29 10:16:26.40	2019-06-29 12:00:57.60			Add to My		□ 今後この種類のファイルは同様に処理する(A)	
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 08(35)42.00	2019-06-29 10:21:28-80	and the second		Add to My			
	12-LST	Land-Surface Temperature	GCOH-C/SGLT	2019-06-29 10:19:19:20	2019-06-29 10:24:46.80	Dertain	Download Processing	Add to My			1
	L2-LST	Land-Surface Temperature	GCOM-C/SGLI	2019-06-29 10:22:04.80	2019-06-29 10:29:45.60	Details	Download Processing	Add to Ny		OK	
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Fig.1-9-1 Product download procedure

[Additional Explanation]

This section explains how to use the "Download all products selected" button in the List of search result.

- If you check the check box at the left end of the list of search result about multiple products, you can press the button "Download all products selected". However, this button is a function that can be used only when the product that includes the "Production" button is displayed in the "Data manipulation" column.
 - "Fig. 1-9-2 How to use the 'Download all products selected' button (1)" describes the case that Product with" Production" button is not selected".
 - "Fig. 1-9-3 How to use the 'Download all products selected' button (2)" describes the case that Product with" Production" button is selected".

own	load all products selected	FIDAL PRIMA PROVIDE AN ALLER	D.	. Click "Do	willoud ul pro	uucto 501	colou .	-		
]	Product 😜	Physical quantities	Spacecraft / sensor	Observation starting date(L	TC Observation ended date(UTC) D	etails Data mani	pulation My List	(87 BY	1.27
	L2-Sea Surface Temperture (SST)	Sea Surface Temperature	GCOM-W1/AMSR-2	2020-01-25 02:25:55.96	5 2020-01-25 03:15:27.184	etails Download	Processing Add to My List	C. If the	product with	the
	L2-Sea Surface Temperture (SST)	Sea Surface Temperature	GCOM-W1/AMSR-2	2020-01-25 16:26:30.18	5 2020-01-25 17:15:50.904	etails Download	Processing Add to My	"Produc"	tion" button i	s not
	L2-Sea Surface Temperture (SST)	Sea Surface Temperature	GCOM-W1/AMSR-2	2020-01-26 03:09:11.51	2020-01-26 03:58:39.738	etails Download	Processing Add to My		, "Download	
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	temperture (SSI)	Sea Surface Temperature	GCOM-W1/AMSR-2	2020-01-26 17:09:45.73	2020-01-26 17:59:06.455			10.9	s selected" c	annot
	L2-OKID	<hr/>				etails Production	Processing	be perfo	rmed.	
	L2-OKID	Ice Covered Area	GCOM-C/SGL	2020-01-25 00:56:54.35	2020-01-25 01:00:51.69	etails Production	Add to My	7		
	_			2020-01-25 12:21:20.16	2020-01-25 12:26:07.85		List			
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Fig. 1-9-2 How to use the "Download all products selected" button (1)

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Fig. 1-9-3 How to use the "Download all products selected" button (2)

This concludes the explanation of data search and download.

2. Process products using G-Portal

2.1. Product processing

You can make processing request for cut out/shift and format conversion for products of satellites shown in Table 2-1.

Target satellite	Target processing
■ GPM	Cut out
■ GSMAP	 Format conversion (ASCII, NetCDF)
■ AQUA	
■ GCOM-W	
■ GCOM-C	■ Cut out/Shift
	 Format conversion (GeoTIFF, NetCDF)

Table 2-1 Satellite and Processing of Product

2.2. Example of product processing

This section introduces how to use the G-Portal processing function to cut out an arbitrary region from the land surface temperature product of GCOM-C / SGLI from the "list of search result" displayed in Chapter 1 (9).

(1) Select the product you want to process from the list of search result and click the "Processing" button (See Figure 2.2-1).

Show the	list (18 data)	Display thumbnail (18 data)	My List (login required)	Save the list (login required)	Production status (login required	0			
	Product	Physical quantit	es Spacecraft / se	ensor Observation starting date(U	TC Observation ended date(UTC)	Details	Data mar	nipulation	My List
	L2-LST	Land-Surface Tempo	GCOM+C/SC	SLT 2019-06-29 08-35-42 00	2019-06-29 10:21:28.80	Details	Download	Processing	Add to M List
	L2-LST	1 Ch	Dole "Dre	ocessing".	6-29 10:24:18.00	Details	Download	Processing	Add to M List
	L2-LST	1. Une	ECK FIC	Juessing.	0:29:20.40	Details	Download	Processing	Add to M List
	L2-LST	cano-surrace rempe	rature GCOM-C/SC	3CI 2013-00-23 10:10:20:40	2019-06-29 12:00:57.60		Download	Processing	Add to M List
	L2-LST	Land-Surface Temp	erature GCOM-C/SC	GLI 2019-06-29 10:19:19.20	2019-06-29 10:24:46.80	Details	Download	Processing	Add to M List
	L2-LST	Land-Surface Temp	erature GCOM-C/SC	3LI 2019-06-29 10:21:21.60	2019-06-29 12:05:16.80	Details	Download	Processing	Add to M List
	L2-LST	Land-Surface Temp	erature GCOM-C/SC	3LI 2019-06-29 10:22:04.80	2019-06-29 10:29:45.60	Details	Download	Processing	Add to M

Fig. 2.2-1 Example of the list of search result

(2) The "Request processing" dialog is displayed (See Figure 2.2-2).

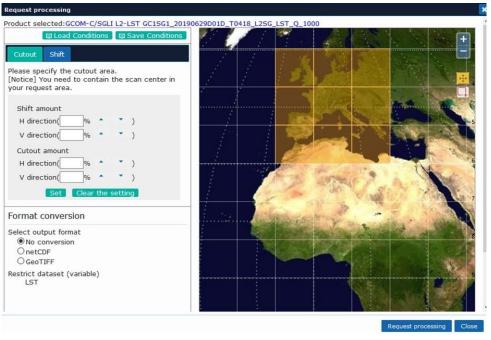
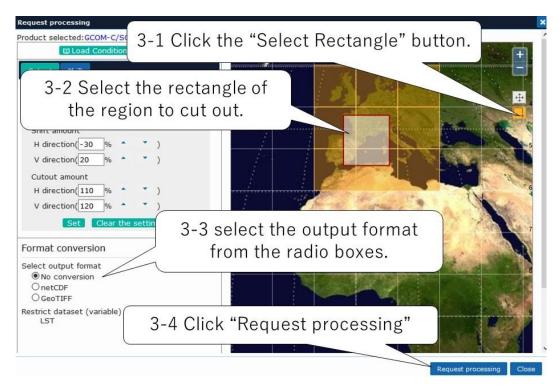
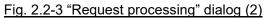


Fig. 2.2-2 "Request processing" dialog (1)

(3) After specifying the observation region and select the output format, click the "Request processing" button (Refer to Fig.2.2-3).





(4) Click "OK" to send the processing request (Refer to Fig.2.2-4).

Request processing	
Product selected:GCOM-C/SGLI L2-LST GCISG1_:	
Please specify the cutout area. [Notice] You need to contain the scan center in your request area.	Send processing request.
Shift amount H direction(-30 % * *) V direction(20 % * *)	OK \$7721
Cutout amount H direction(110 % *) V direction(120 % *) Set	
	Click "OK" button.
Select output format No conversion CecTIFF Restrict dataset (variable) LST	
	Request processing Close

Fig. 2.2-4 Sending of processing request

(5) The production request number is displayed (Refer to Fig.2.2-5).

Google	Portugal Madrid Spain Message	est number: ORD20	C patia Italy ei ome 2003031041	ea Lo Israel
List of search result			1-	
Show the list (52 data)	Display thumbnail (52 data)	My List (4 data	ired) S	ave the list (0 data registered)
L2-LST	Land-Surface Temp	erature M.	-C/SGLI	2019-06-29 08:35:42.00
L2-LST	Land-Surface Temp	COM-	C/SGLI	2019-06-29 10:19:19.20
			GLI	2019-06-29 10:22:04.80
D 5. C	lick "Close"	button.	GLI	2019-06-29 00:04:58.80
L3-LST	Land-Surface Temp	erature GCOM-	C/SGLI	2019-06-29 00:04:58.80

Fig. 2.2-5 Production request number

(6) When you click the "Production Status" tab in the "List of search result", you can confirm the production status of "Processing Request" (Refer to Fig.2.2-6).

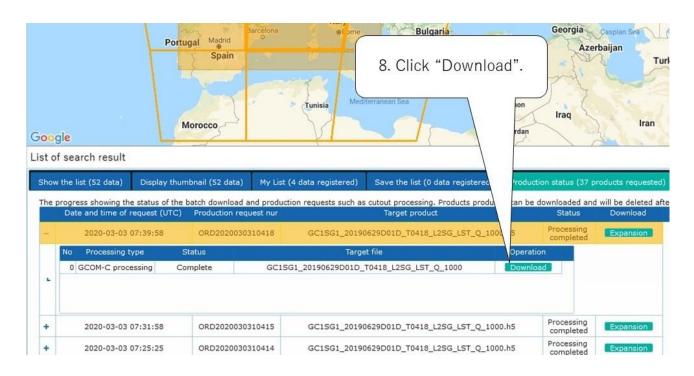
Google		ugal Madrid Create 1. Click "Produ	Italy ection statu	Bulgaria Istanbul	k Sea Furkey Syria Lebanon el, Jordan	2200	Caspian Sea baijan Tur Iran
	search result	mbnail (52 data) My List	(4 data registered)	Save the list (0 data registered)	Production	etatue (37 pr	oducts requested)
The pro				cutout processing. Products produc Target product			
+	2020-03-03 07:39:58	ORD2020030310418	GC1SG1_2019	0629D01D_T0418_L2SG_LST_Q_100	00.h5	Under processing	
+	2020-03-03 07:31:58	ORD2020030310415	GC1SG1_2019	0629D01D_T0418_128	00.h5	Processing completed	Expansion
+	C		EG1 20	T0_T0418_L2SG_LST_Q_100	00.h5	Processing completed	Expansion
+	6-2. Ch	eck "Status".	G1_20190	0629D01D_T0418_L2SG_LST_Q_100	00.h5	Processing completed	Expansion
+			G1_20190	0629D01D_T0418_L2SG_LST_Q_100	0.h5	Processing completed	Expansion
+	2020-03-03 07:08:20	ORD2020030310411	GC1SG1_2019	0629D01D_T0418_L2SG_LST_Q_100	00.h5	Processing	Expansion

Fig. 2.2-6 Check the processing status (1)

(7) When the processing is completed, click on "Expansion" (Refer to Fig.2.2-7).

	e	Portu	Igal Madrid Spain Aorocco		Tunisia	literranea	7. Click "E	xpansion".		Turk
ist of s	search result			-		÷				
	he list (52 data)		nbnail (52 data) hatch download a		(4 data registered)		e list (0 data registered) ocessing. Products produce	Production status	ducts req	uested) eted after
-	Date and time of r	COLUMN TWO IS NOT THE OWNER OF THE OWNER OWNE	Production req	And in case of the local division of the loc			et product	Status		
+	2020-03-03 0	07:39:58	ORD20200303	310418	GC1SG1_2019	0629D01D	_T0418_L2SG_LST_Q_100().h5 Processi complet		ion
+	2020-03-03 0	07:31:58	ORD20200303	310415	GC1SG1_2019	0629D01D	_T0418_L2SG_LST_Q_1000	0.h5 Processi complet		ion
+	2020-03-03 0	07:25:25	ORD2020030	310414	GC1SG1_2019	0629D01D	_T0418_L2SG_LST_Q_1000	0.h5 Processi complet		ion
+	2020-03-03 0	07:11:45	ORD20200303	310413	GC1SG1_2019	0629D01D	_T0418_L2SG_LST_Q_1000	0.h5 Processi complet		ion

Fig. 2.2-7 Check the processing status (2)



(8) When you click "Download", the processed file will be downloaded to your computer (Fig. 2.2-8-1).

Fig. 2.2-8 Download of processing product

3. Imaging the acquired product

This chapter introduces how to display, process and image the GCOM-C/SGLI land surface temperature products downloaded in Chapter 1 using the SGLI User Tool.

SGLI User Tool provides users with various functions to use earth observation data of GCOM-C/ SGLI. You can display, edit, clip and project them on a map.

3.1. Installation of SGLI User Tool

(1) Click "Tools / documents" left pane on the top menu (Refer to Fig.2-1).

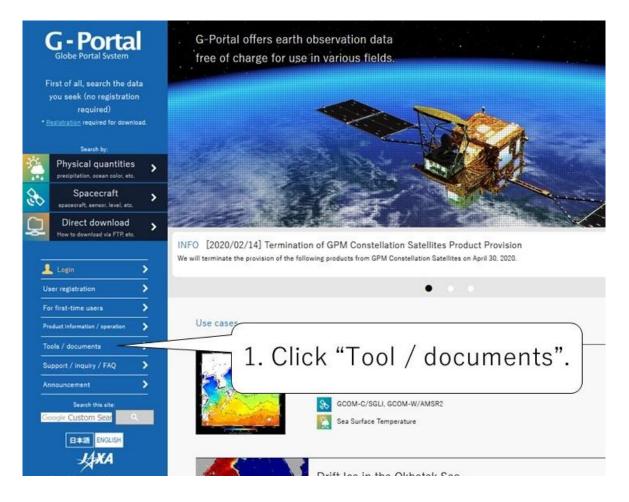


Fig.3.1-1. G-Portal top window

- (2) When the "Tools / Documents" screen is displayed, click "GCOM-C" (Refer to Fig.1-2).
 - Tools for using satellite products and documents related to product format and other information are available from the "Tools / Documents" window.

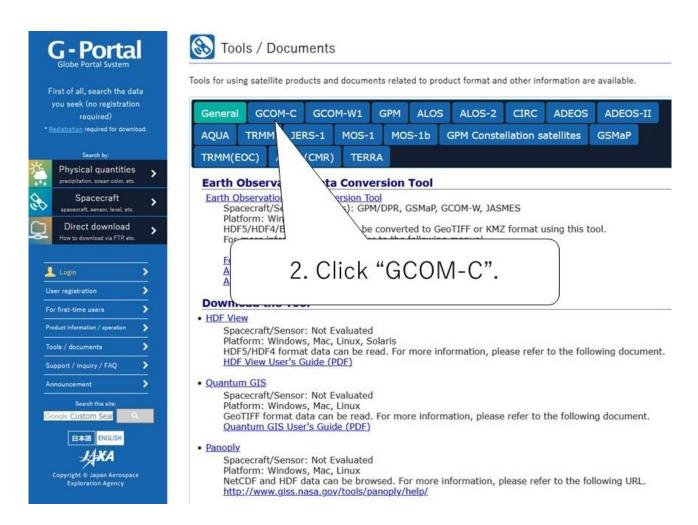


Fig.3.1-2. G-Portal Tools / Document Page (General)

- (3) Click "Download" of SGLI User Tool to download the Installer (SGLIUserToolInstaller.msi).
 - In the High-resolution version, memory may be insufficient depending on the usage environment. In that case, please use Low-resolution version.

G - Portal Globe Portal System First of all, search the data		IS / Docu		iments relat	ted to prod	luct format an	d other inf	ormation ar	e available.
you seek (no registration required)	General	GCOM-C	GCOM-W	1 GPM	ALOS	ALOS-2	CIRC	ADEOS	ADEOS-II
* <u>Registration</u> required for download.	AQUA	TRMM JI	RS-1 MC	S-1 MC	S-1b	GPM Conste	llation s	atellites	GSMaP
Search by:	TRMM(E	OC) AOU		EDDA					
Physical quantities precipitation, ocean color. etc.	Toolkit			3-1.	Clicl	k "Dov	wnlo	ad".	
Spacecraft > spacecraft sensor. level, etc. > Direct download > How to download via FTP. etc. >	Please re		I products ar or the Terms			~			
💄 Login 🔶	The second s	ser Tool (Ver.	Storing States				Downl	oad(32bit	High-Resolution) High-Resolution) Low-Resolution)
User registration > For first-time users > Product information / operation >	Operati SGLI Us	ng environm	ent : Window ides users wi	57, 8.1, 10	(32bit/64				u can display, edit,
Taols / documents > Support / inquiry / FAQ >	In the H that cas	High-resolutionse, please us		ion version	I.		ding on tł	ne usage ei	nvironment. In
Announcement >	- <u>SGLI U</u>	Jser Tool Use	r's Manual(Re	vision B)					
Search this site: Goode Custom Sear	-		tit						Download
3-2. Click h							•)
Copyright © Japan Aerospace Exploration Agency	two way	ys to read G	COM-C/SGLI	roduct cor	structed	as an HDF5 f	ile.		tit which is easy to

Fig.3.1-3. G-Portal Tools / Document Page (GCOM-C)

(4) Execute the downloaded SGLI User Tool installer (SGLIUserToolInstaller.msi) to start installing the SGLI User Tool.

For details on the installation procedure, refer to the SGLI User Tool User Manual "1.5 Installation".

- 3.2. Display products using SGLI User Tool
 - (1) When SGLI User Tool is started, the screen shown in Figure 2.2-1 will appear. Click the "Open (SGLI)" icon.



Fig. 3.2-1 Initial screen of SGLI User Tool

(2) Drag and drop the GCOM-C observation product file to "File Name" field as shown in Fig.3.2-2.

	- 8 ×	
ファイル名 10220_GCOM-C_LST¥GC1SG1_20190629D01D_T0418_L2SG_LST_Q_1000h5 語	bo	Drag and drop the GCOM-C observation product file.
< レベル SQLI Level 2 ④単チャネル チャネル LST	~	CO200220_GCOM-C_LST
<mark>〇 RGB含成</mark> R:チャネル LST G:チャネル LST B:チャネル LST	~	
擬似カラーテーブル [Automatic] 開く キャンセル	× ×	

Fig.3.2-2 Drag & Drop Operation

(3) Click the "Open" button to display the product on the map.

・ SGLIUserTool - [SGLIプロ]ダクト読み込み]		<u>1997</u>)		×
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Fig.3.2-3 File Open Dialog

(4) The screen of product and map display as shown in Fig.3.2-4 is displayed.

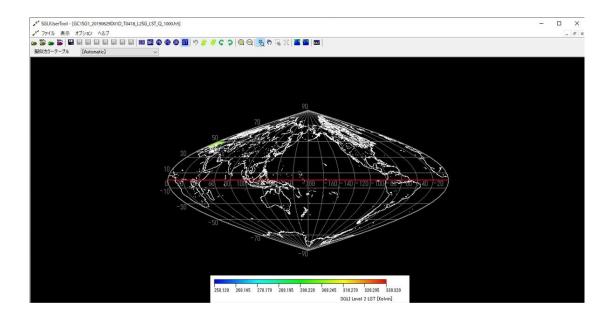
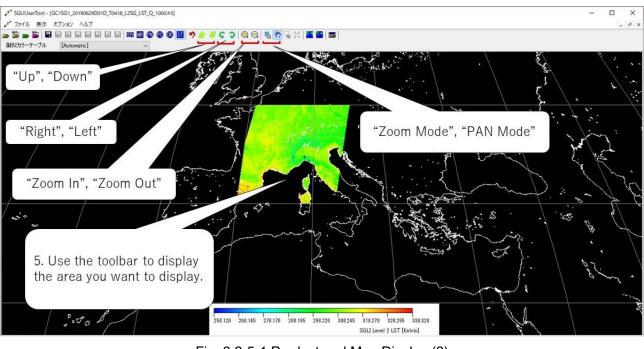


Fig.3.2-4 Product and Map Display (1)



(5) The observation region can be displayed by operating the icons shown in Fig.3.2-5-1.

Fig. 3.2-5-1 Product and Map Display (2)

[Reference Information]

The functions of each button on the toolbar of the SGLI User Tool are as shown in Fig.3.2-5 2.

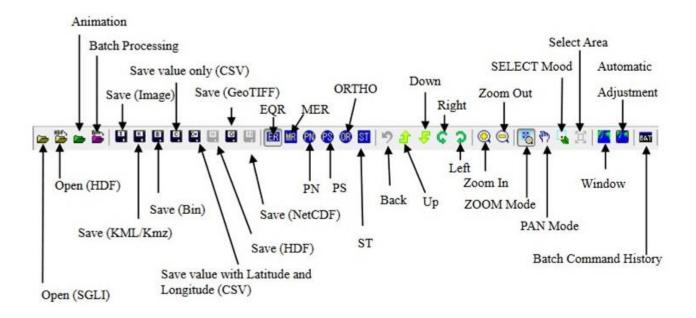


Fig.3.2-5-2 Tool bar

3.3. Cut out and save the image of product

Using the SGLI User Tool, you can cut out any observation region from the observation product image displayed on the map and save it in HDF5 format, image format, KML format, binary format, CSV format, etc. You can also copy it to the clipboard.

We will explain how to save the cut data in image format, and copy it to the clipboard.

3.3.1. Cut out an image and save it in image format

(1) To cut out the product image in HDF5 format, click the "Open (HDF)" icon (Refer to Fig.3.3.1-1), specify the target product file, and open the image. (Refer to Fig.3.2-2 to Fig.3.2-5-1 for the operation procedure.)

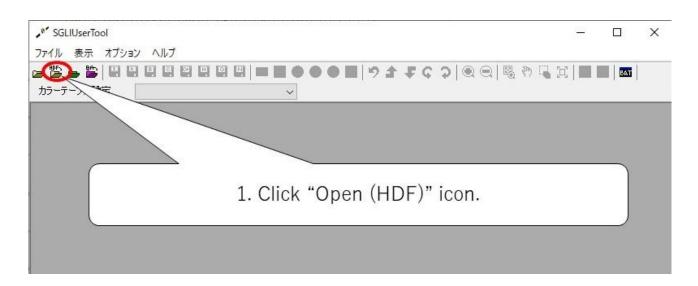
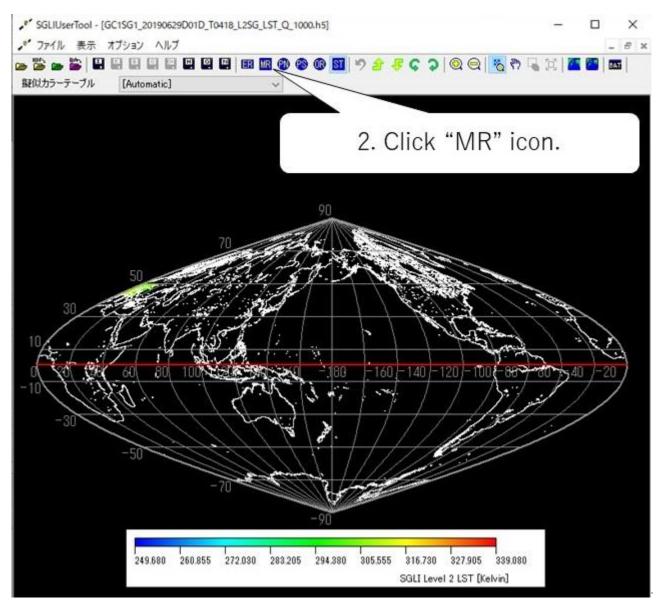


Fig.3.3.1-1 Initial screen of SGLI User Too

(2) The product/map display window is displayed in EQA (sinusoidal equal area) projection as shown in Fig.3.3.1-2. Click the "MR" icon to display the product/map display window in Mercator geographic projection as shown in Fig.3.3.1-3.



(3) When the product/map display window in Mercator geographic projection is displayed, operate the icons on the toolbar to display the region you want to see. (Refer to Fig.3.3.1-3)

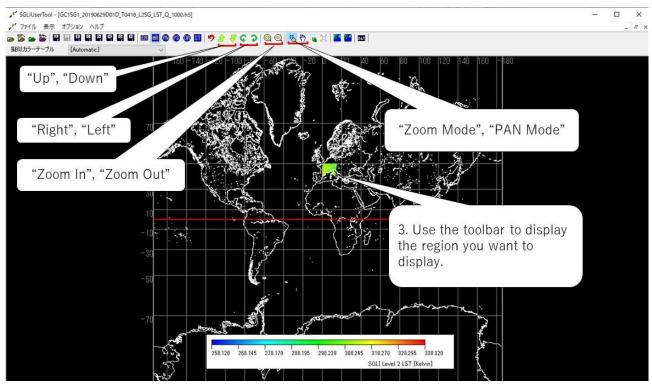


Fig.3.3.1-3 Operation of SGLI User Tool (1)

(4) After specifying the region to cut out, click the "Save (Image)" icon on the toolbar (Refer to Fig.3.3.1-4-1). This region will be saved in image format (jpg). (See Fig. 3.3.1-4-2)

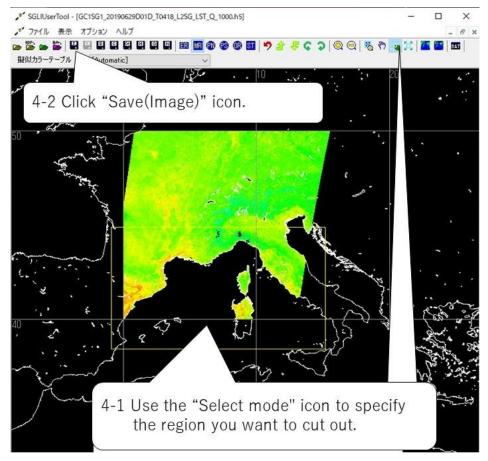
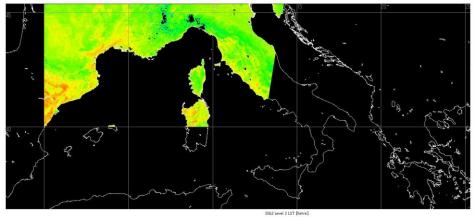


Fig.3.3.1-4-1 Operation of SGLI User Tool (2)

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259.120 268.145 278.170 288.195 298.220 308.245 318.270 328.295 338.320

Fig.3.3.1-4-2 Cut out image

- 3.3.2. Copy the image cut out from the product to the clipboard
 - (1) From the initial screen of the SGLI User Tool, display the file saved in 3.3.1. (Refer to 3.3.1(1), (2) for the operation procedure.)
 - (2) Adjust the size and position of the displayed image using the icon of the user tool. (Refer to 3.3.1(3),(4) for operation procedure.)
 - (3) Click "File" and select "Copy to Clipboard" from the displayed pull-down menu (Refer to Fig. 3.3.2-1). The pull-down menu will appear, allowing you to select "Copy (Window)" or "Copy (Selected Area)".
 - This function is to copy a displayed image to Windows clipboard. You can copy the displayed image to another application easily. This menu has the following two kind of sub function.
 - "Copy (Window)": Copy an image on the window.
 - \succ "Copy (Selected Area)": Copy the selected area on image window. \lceil

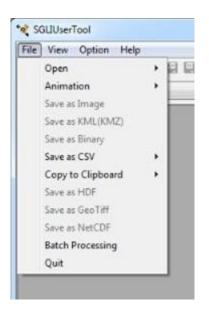


Fig.3.3.2-1 File Menu Pull Down