



Quick-Guide

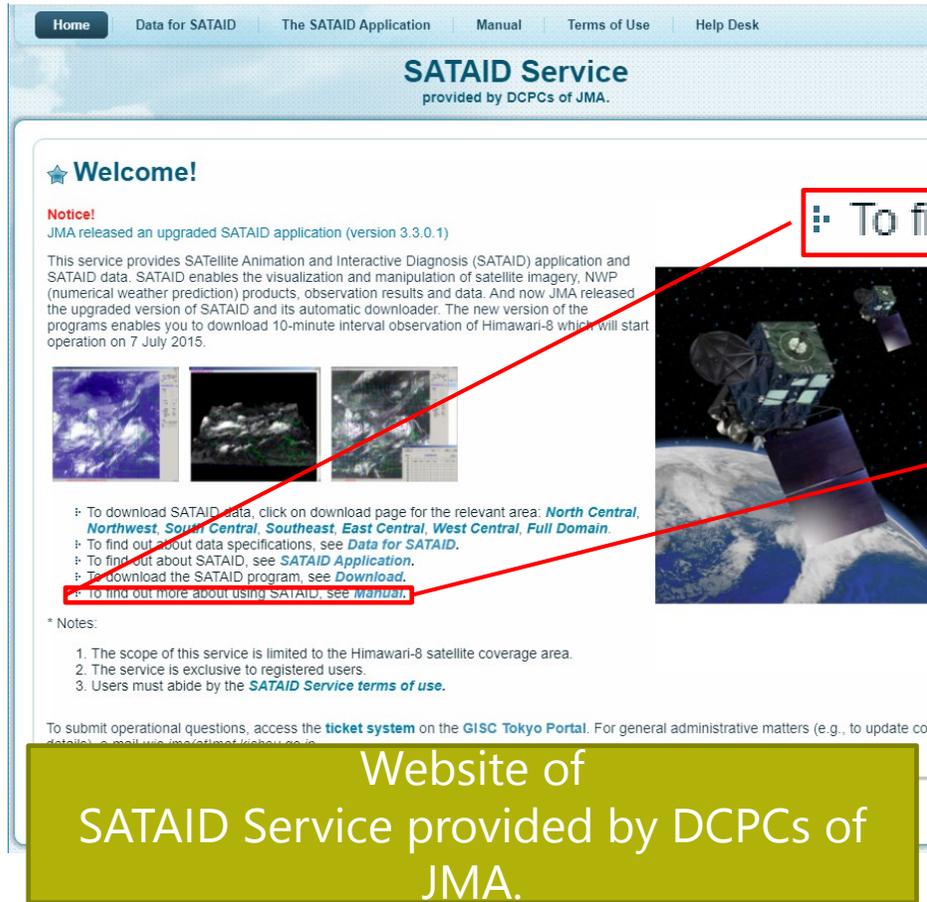
to SATAID Ver.3.4

Japan Meteorological Agency

Mar. 2023



Quick-Guide to SATAID



Home | Data for SATAID | The SATAID Application | Manual | Terms of Use | Help Desk

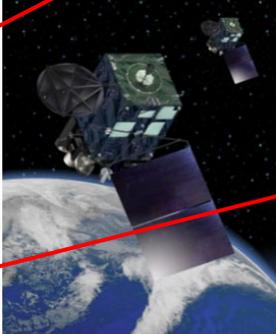
SATAID Service

provided by DCPCs of JMA.

★ **Welcome!**

Notice!
JMA released an upgraded SATAID application (version 3.3.0.1)

This service provides SATellite Animation and Interactive Diagnosis (SATAID) application and SATAID data. SATAID enables the visualization and manipulation of satellite imagery, NWP (numerical weather prediction) products, observation results and data. And now JMA released the upgraded version of SATAID and its automatic downloader. The new version of the programs enables you to download 10-minute interval observation of Himawari-8 which will start operation on 7 July 2015.



- ▶ To download SATAID data, click on download page for the relevant area: [North Central](#), [Northwest](#), [South Central](#), [Southeast](#), [East Central](#), [West Central](#), [Full Domain](#).
- ▶ To find out about data specifications, see [Data for SATAID](#).
- ▶ To find out about SATAID, see [SATAID Application](#).
- ▶ To download the SATAID program, see [Download](#).
- ▶ **To find out more about using SATAID, see [Manual](#).**

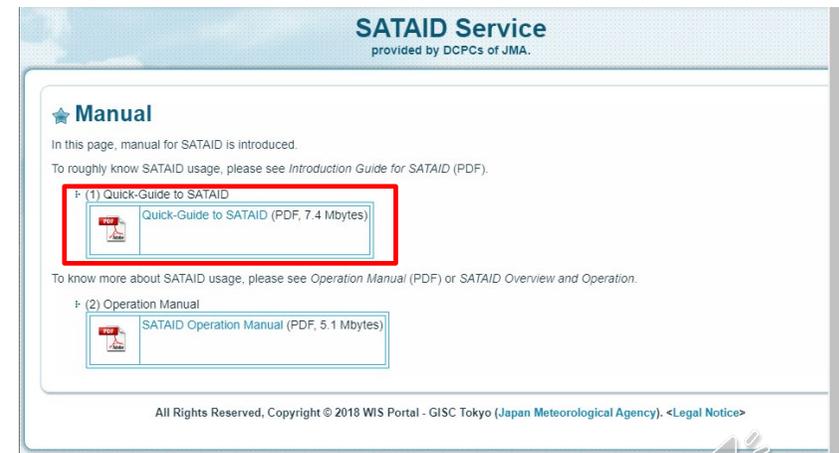
* Notes:

1. The scope of this service is limited to the Himawari-8 satellite coverage area.
2. The service is exclusive to registered users.
3. Users must abide by the [SATAID Service terms of use](#).

To submit operational questions, access the [ticket system](#) on the [GISC Tokyo Portal](#). For general administrative matters (e.g., to update contact details), e-mail wis-ma@met.kishou.go.jp.

Website of
SATAID Service provided by DCPCs of
JMA.

▶ To find out more about using SATAID, see [Manual](#).



SATAID Service

provided by DCPCs of JMA.

★ **Manual**

In this page, manual for SATAID is introduced.
To roughly know SATAID usage, please see [Introduction Guide for SATAID \(PDF\)](#).

▶ (1) Quick-Guide to SATAID
 Quick-Guide to SATAID (PDF, 7.4 Mbytes)

To know more about SATAID usage, please see [Operation Manual \(PDF\)](#) or [SATAID Overview and Operation](#).

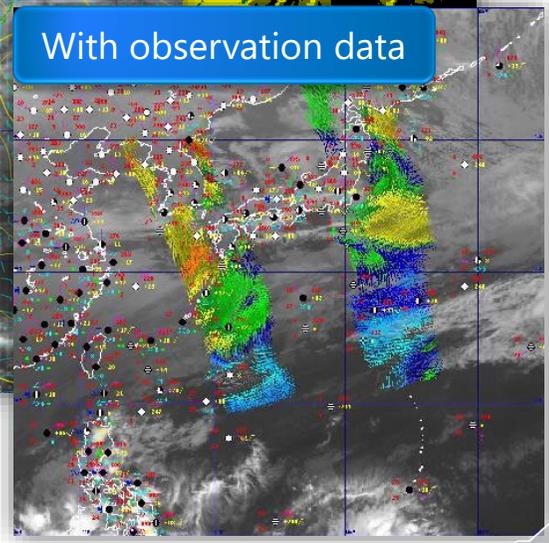
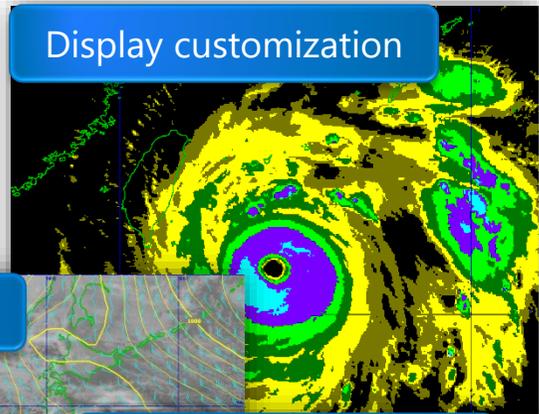
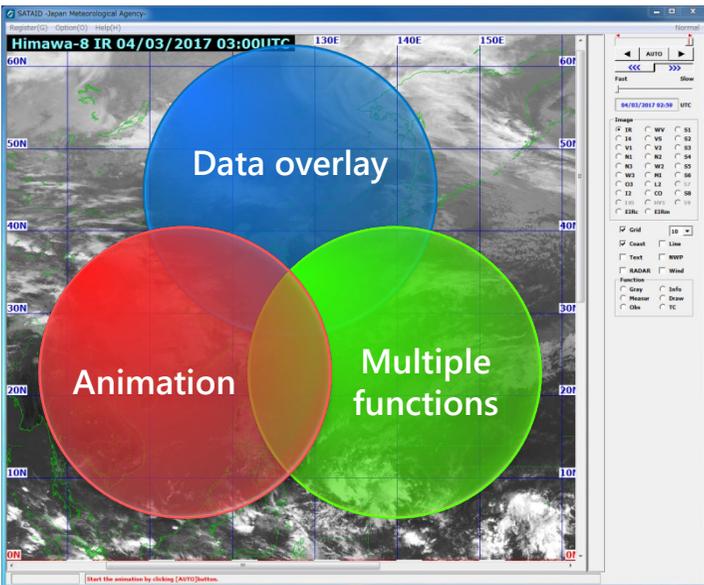
▶ (2) Operation Manual
 SATAID Operation Manual (PDF, 5.1 Mbytes)

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What is SATAID?

SATAID (**SAT**ellite **A**nimation and **I**nteractive **D**iagnosis) is a sophisticated display program that enables visualization of meteorological information in multiple spatial and temporal dimensions. This helps forecasters to continually analyze and monitor weather parameters and phenomena for improved meteorological services.





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1. Installing SATAID and Downloading Data





Installing SATAID

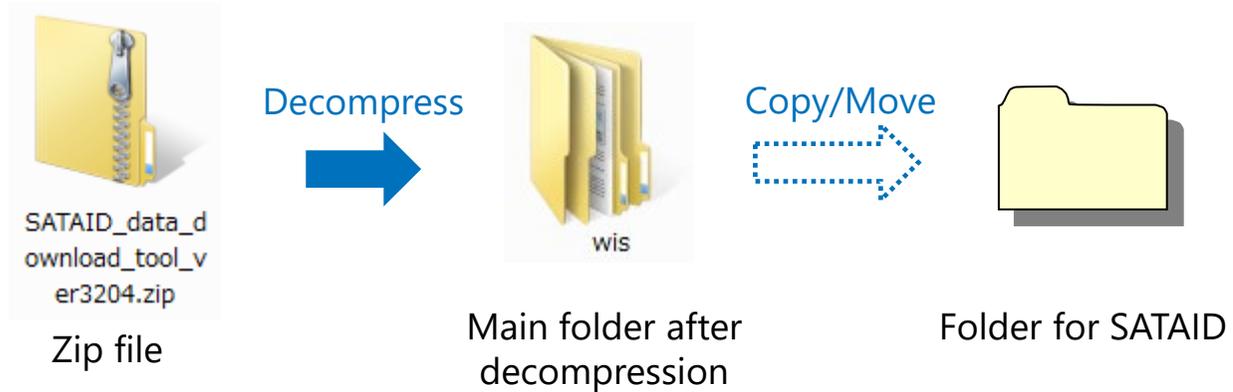
1. Download **SATAID_data_download_tool_ver3301.zip** from the SATAID Service website <https://www.wis-jma.go.jp/cms/sataid/download.html>



To download all-inclusive package (SATAID data downloader, visualization application, manual... etc), please click file link below.

Click!
SATAID_data_download_tool_ver3204.zip
(zip format: 28Mbytes)

2. Decompress the zip file and copy/move the folder to the desired location.





Downloading Data Using WIS Downloader

Download and install SATAID

If you already have the "WIS.ini" file, it can be made readable by putting it in the wis folder before STEP 1 below.

*The file should be backed up, as it will be overwritten when a new initial file is made using "MakIniFile.hta".

STEP 1: Make the "WIS.ini" file using "MakIniFile.hta".

STEP 2: Download the data and activate the SATAID application using "Sataid_Loop_V2.hta".

**Start SATAID.
(Automatic activation)**



Downloading Data Using WIS Downloader

1. Make an initial file for WIS Downloader.

* If you already have the "WIS.ini" file, it can be made readable by clicking Read button.

"MakIniFile.hta" file

Automatic Downloader for SATAID Ver.2

Making Initial File

*If you already have "WIS.ini" file, you can read it.

Image Area Settings (1)

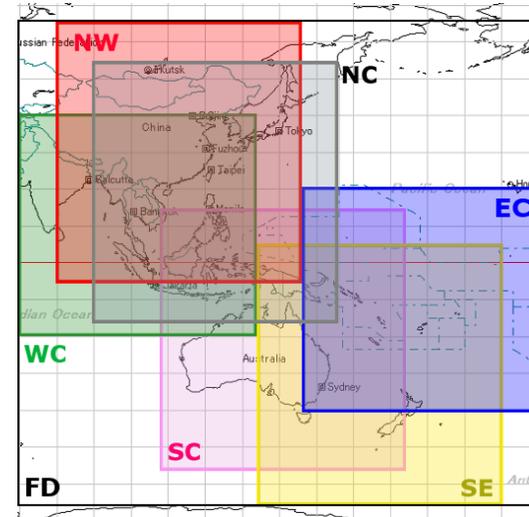
- Select Himawari image area ([see image area](#))
- Set cutout area (latitude/longitude)
 - North:
 - West: East:
 - South:

Other Settings (2)

- Time difference from UTC: (hours)
*Refer to your computer's time
- Data prior to (days) will be deleted automatically
- WIS-ID:
- Password:
- Use proxy?
- Https-proxy: Port:

(1) Image Area Settings

- ✓ Select Himawari image area
- ✓ Select cutout area using Lat/Lon



(2) Other Settings

- ✓ Time difference from UTC
- ✓ Time of file deletion
- ✓ WIS ID, Password
- ✓ Proxy

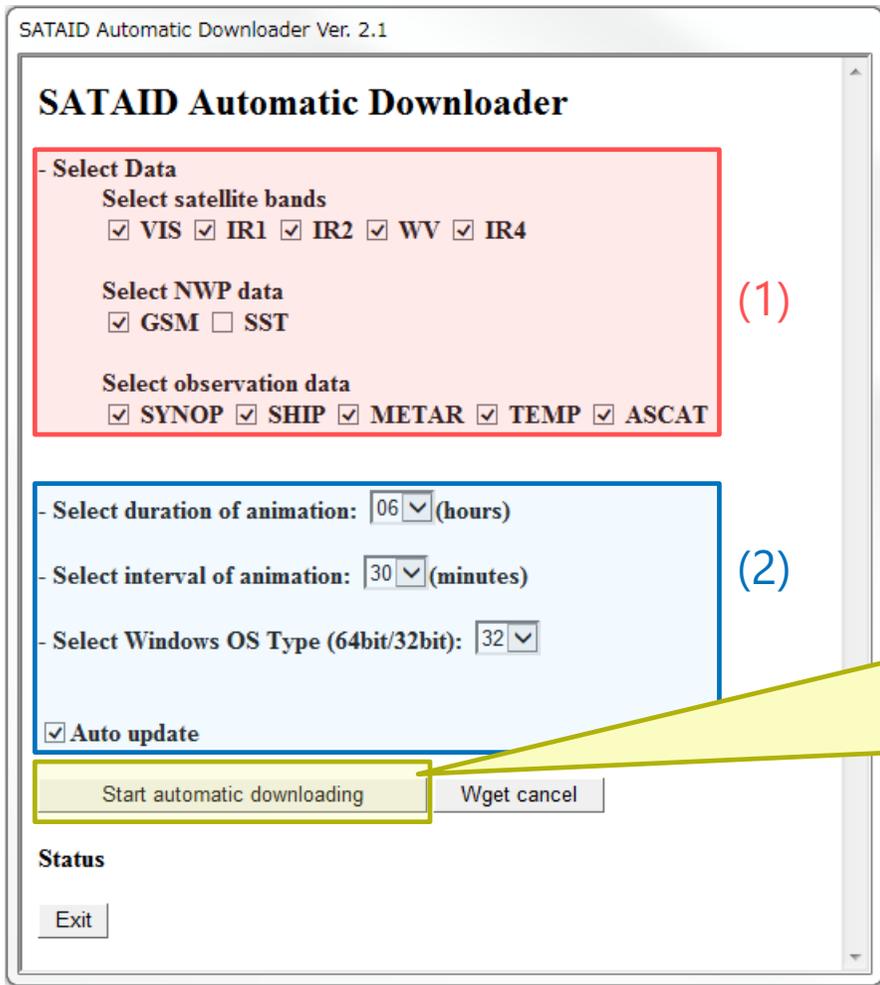


Downloading Data Using WIS Downloader

2. Download data from the WIS server.

* Close SATAID (GMSLPD) before using the SATAID Automatic Downloader.

“Sataid_Loop_V2.hta” file



(1) Select Data.

- ✓ Himawari-8 bands
- ✓ NWP data
- ✓ Other observation data

(2) Set up details.

- ✓ Animation duration
- ✓ Interval between animation frames*
- ✓ OS type (32/64bit)
- ✓ Auto-update function

* Depending on PC memory capacity, a short animation may need to be specified if 10-min intervals are selected.

After the data download, SATAID will start automatically.

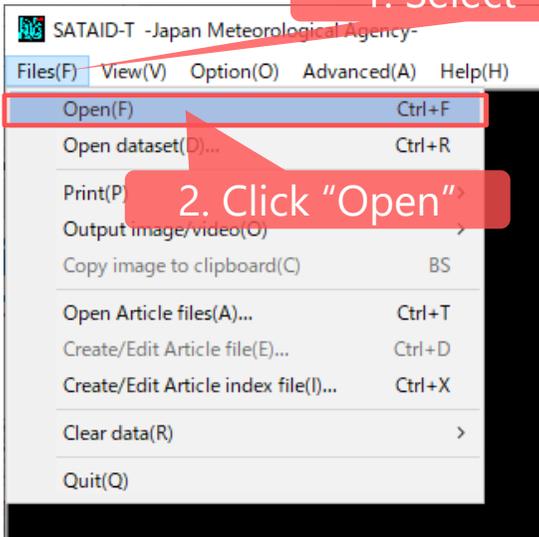




Opening SATAID Files

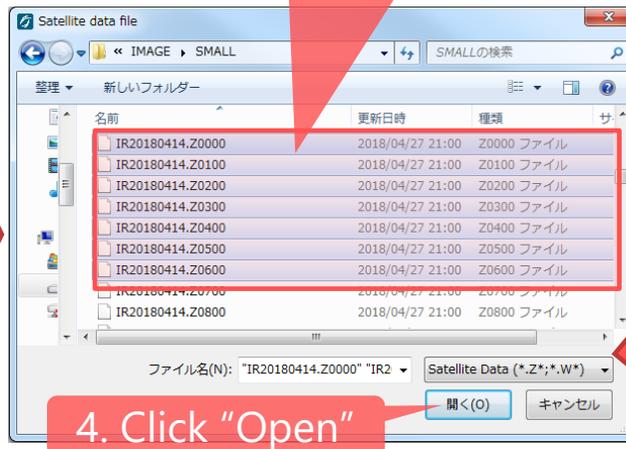
◆ Method 1

1. Select "Files"

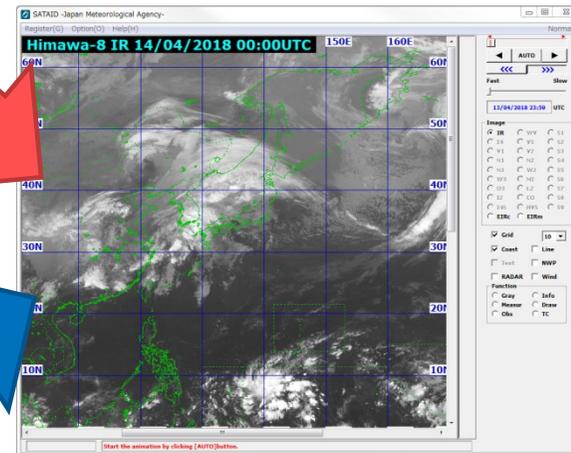


2. Click "Open"

3. Select SATAID files

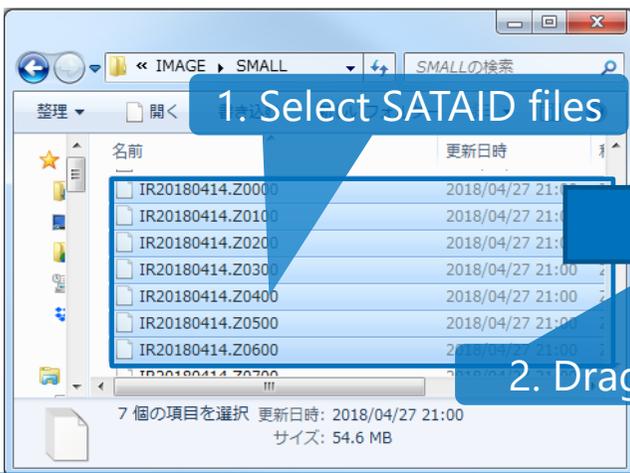


4. Click "Open"

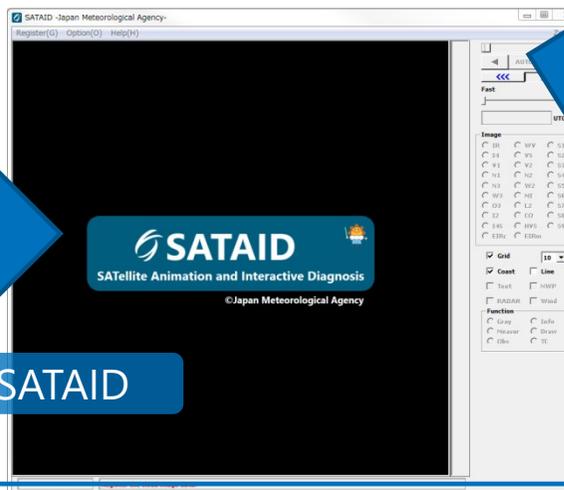


◆ Method 2

1. Select SATAID files



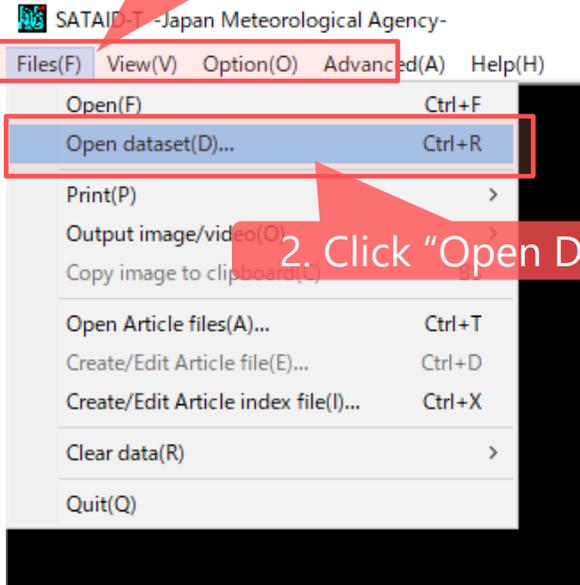
2. Drag to SATAID





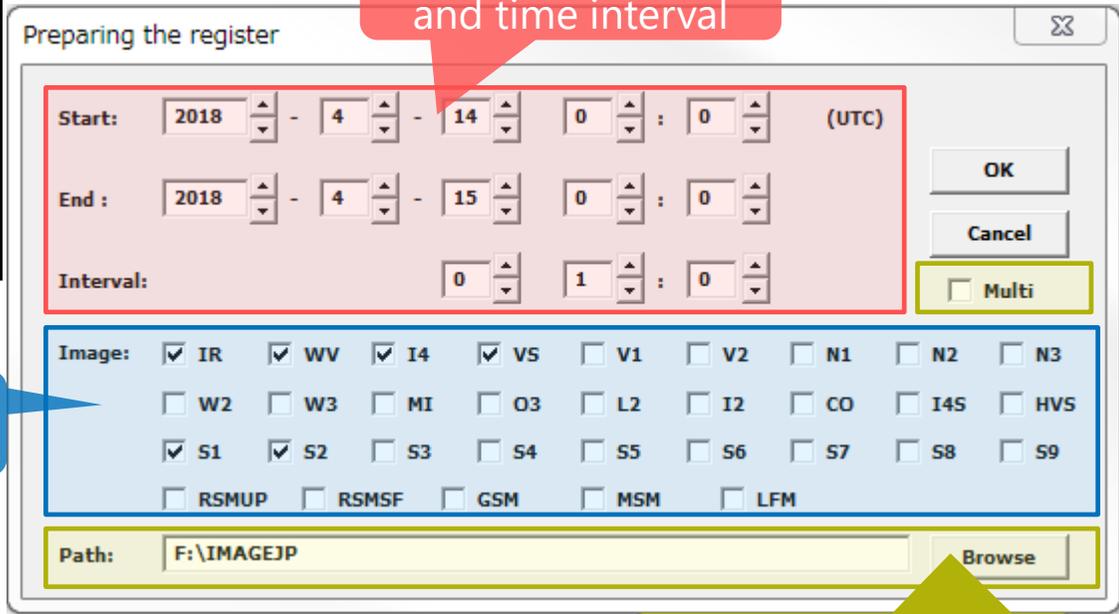
Opening SATAID Dataset

1. Select "Files"



2. Click "Open Dataset"

Set start/end time and time interval



Select satellite bands and NWP data

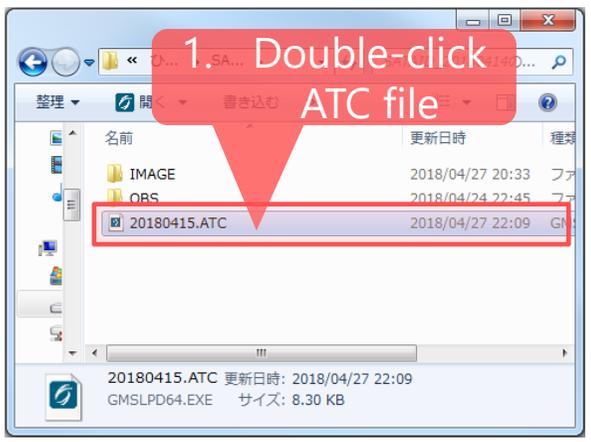
Set dataset path
If "Multi" is checked, path is added following ";" every time "Browse" button is used.



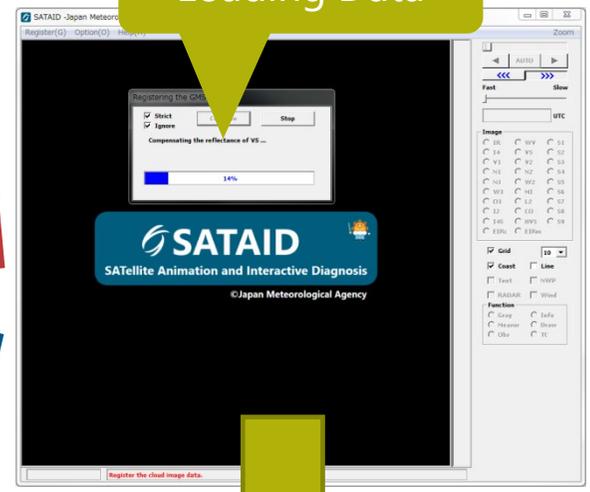


Opening SATAID Article (ATC) File

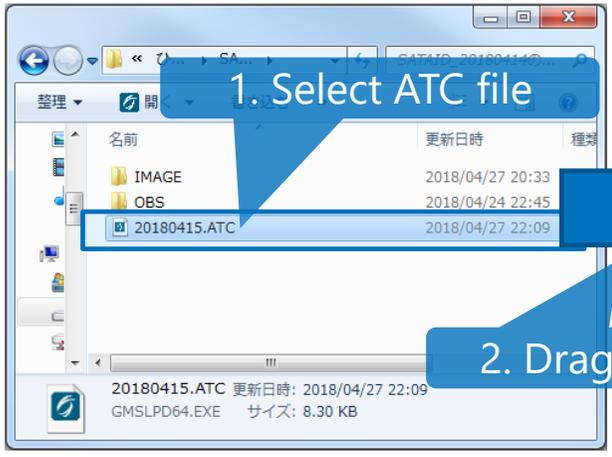
◆ Method 1



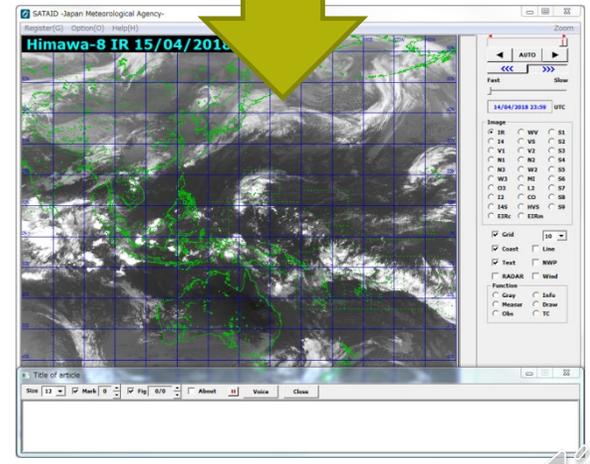
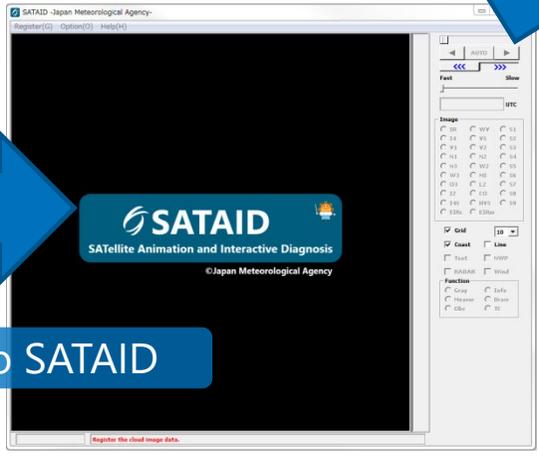
Loading Data



◆ Method 2



2. Drag to SATAID

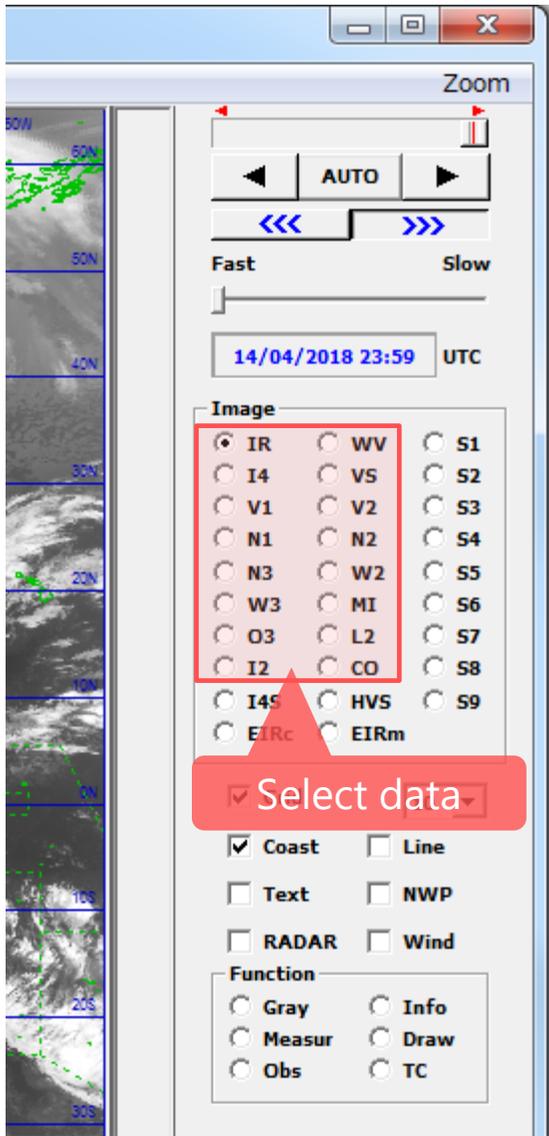


2. Controlling and Displaying Satellite Images





Selecting Satellite Images



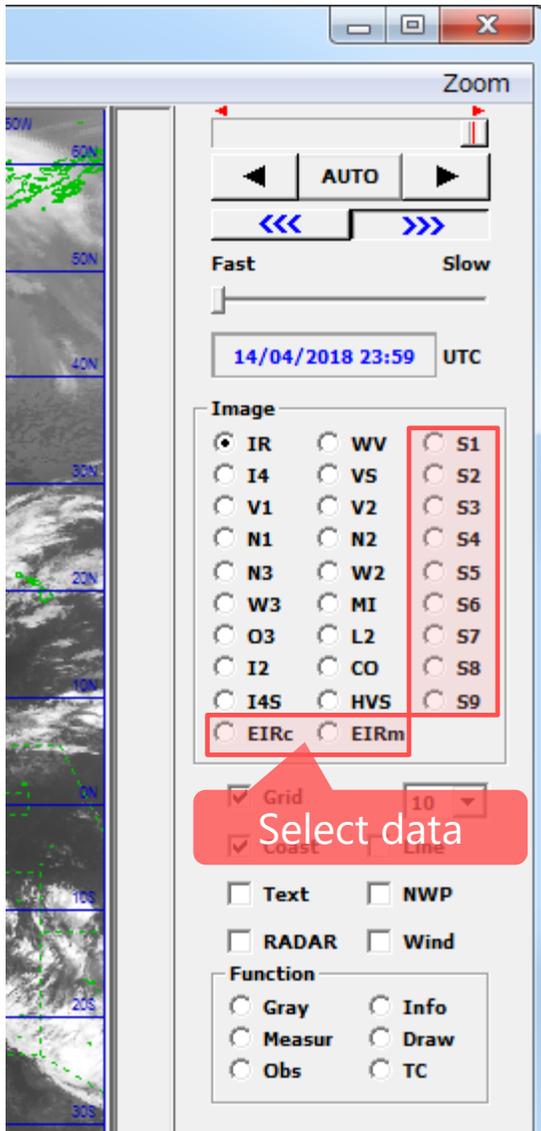
Band		Wavelength [μm]	Himawari Cloud*	Himawari Cast*	WIS*
V1	Visible	0.46	○ (1 km)		
V2		0.51	○ (1 km)		
VS		0.64	○ (0.5 km)	○ (1 km)	○ (4 km)
N1	Near Infrared	0.86	○ (1 km)	○ (4 km)	
N2		1.6	○ (2 km)	○ (4 km)	
N3		2.3	○ (2 km)	○ (4 km)	
I4	Infrared	3.9	○ (2 km)	○ (2 or 4 km)	○ (4 km)
WV		6.2	○ (2 km)	○ (4 km)	○ (4 km)
W2		7.0	○ (2 km)	○ (4 km)	
W3		7.3	○ (2 km)	○ (4 km)	
MI		8.6	○ (2 km)	○ (4 km)	
O3		9.6	○ (2 km)	○ (4 km)	
IR		10.4	○ (2 km)	○ (4 km)	○ (4 km)
L2		11.2	○ (2 km)	○ (4 km)	
I2		12.3	○ (2 km)	○ (4 km)	○ (4 km)
CO		13.3	○ (2 km)	○ (4 km)	

*(): spatial resolution





Selecting Satellite Images



◆ Differential Images

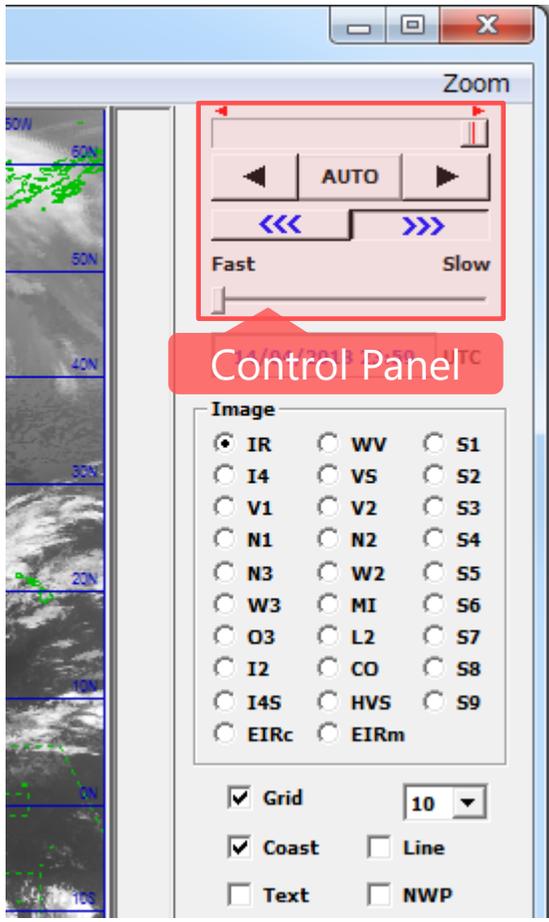
- S1: Differential images 1 (IR – I2)
- S2: Differential images 2 (I4 – IR)
- S3: Differential images 3 (IR-WV)
- etc...

◆ Enhanced Images

- EIRc: Colored enhanced infrared images
- EIRm: Monochrome enhanced infrared images



Controlling animation

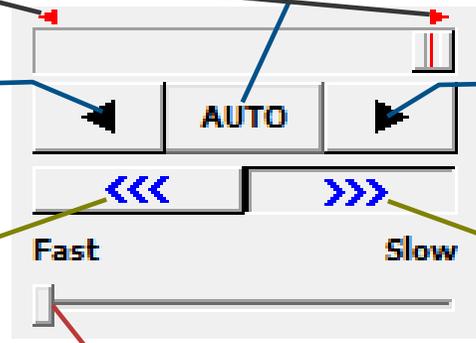


Drag to change animation duration (first/last image).

Start/Stop Animation.



Display previous image.



Display next image.

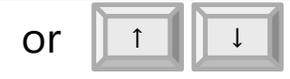


Play in reverse sequence.

Play in normal sequence.



Adjust animation speed.



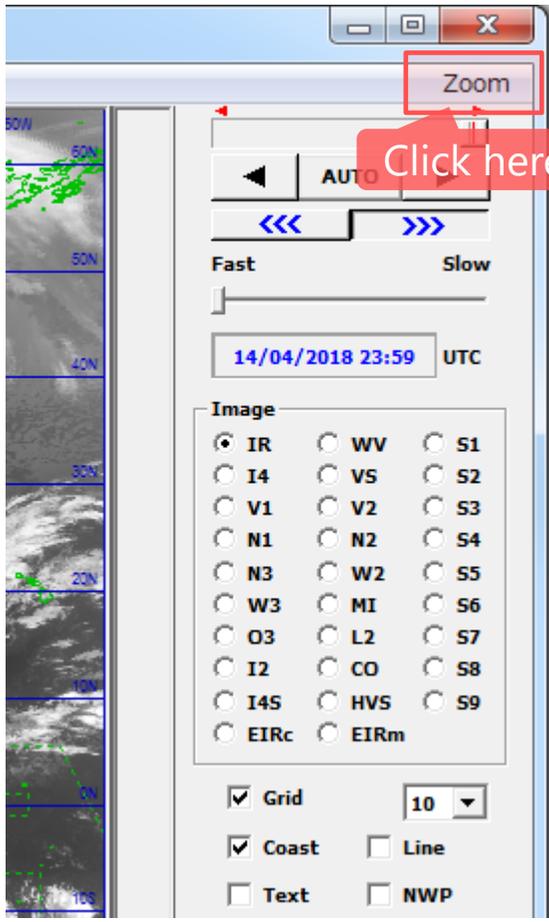
Tips

" " + or

: Specify current image as the first/last image of animation.



Zooming In/Out



◆ **Method 1**

- **Display enlarged area.**
Click [Zoom] button and drag area.
- **Return to whole image.**
Click [Normal] button.

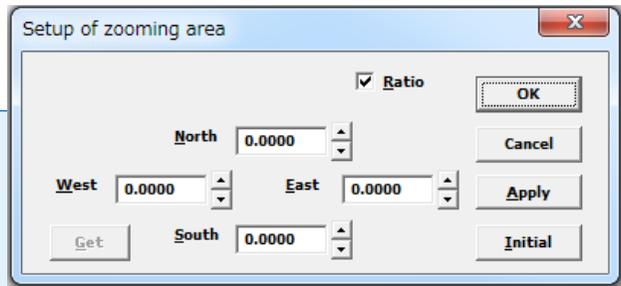
◆ **Method 2**

- **Zoom in:**  +  +  **Left-Click**
- **Zoom out:**  +  +  **Right-Click**

Tips

Areas can be digitally designated with longitude/latitude information.

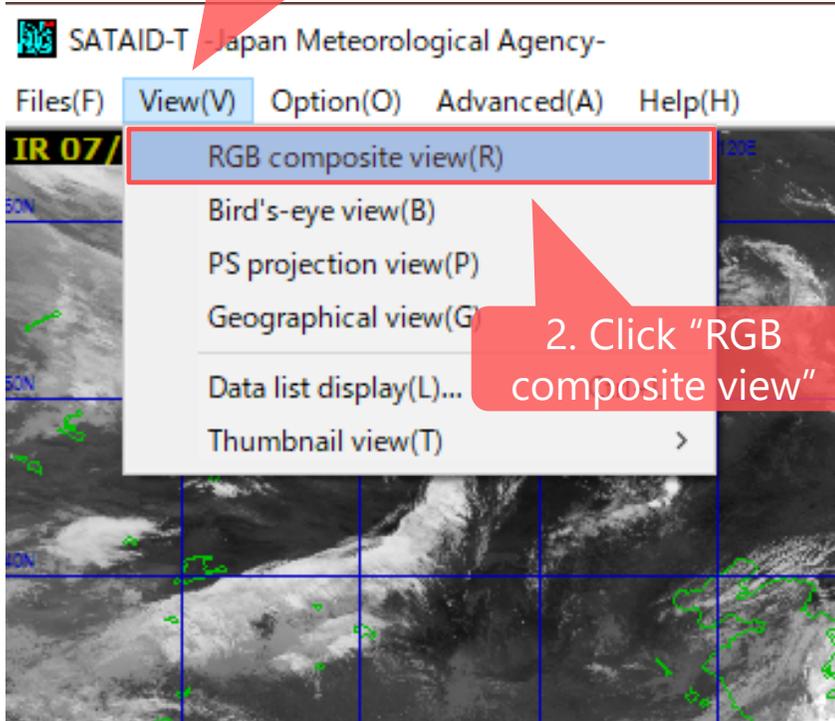
 +  + [Zoom]





Displaying RGB Images

1. Select "View"

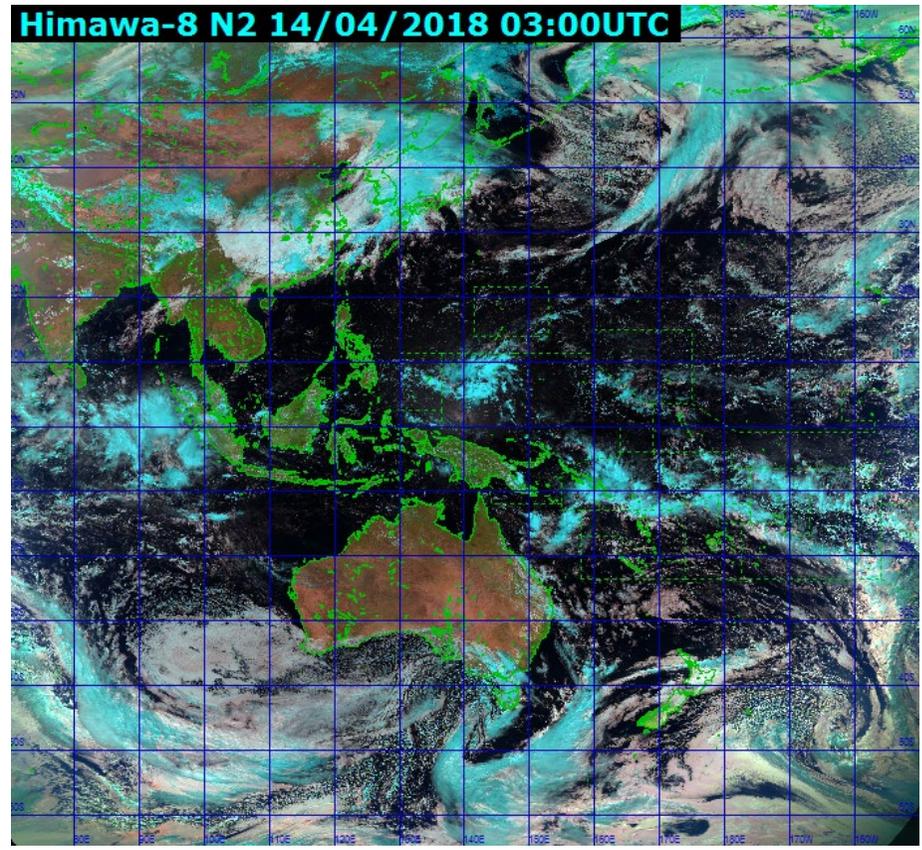


2. Click "RGB composite view"



3. Select RGB image

4. Click "Apply" to display

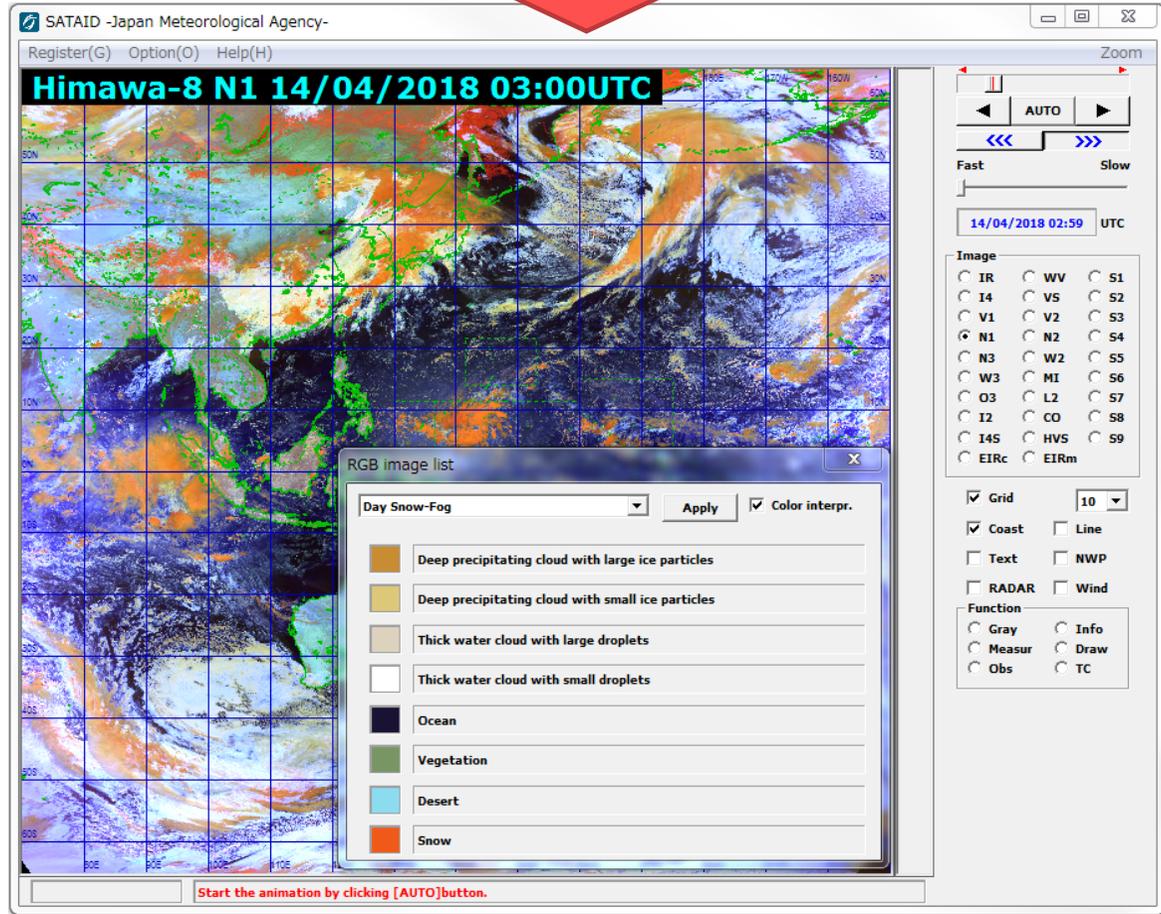




Displaying color legends

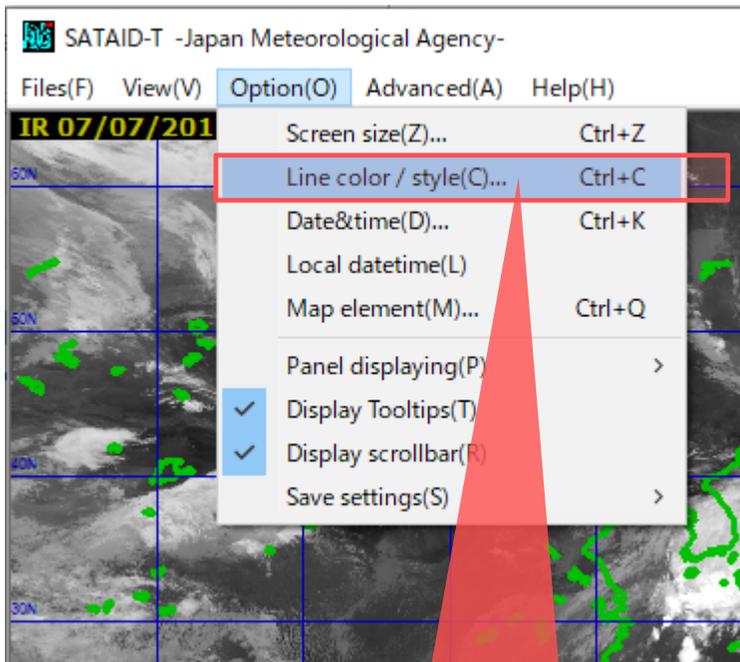


Activate this checkbox.

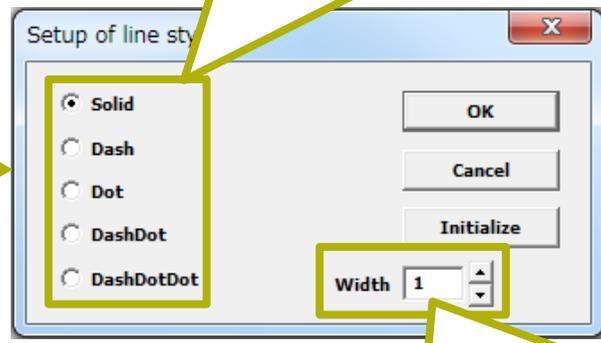




Changing Line Style



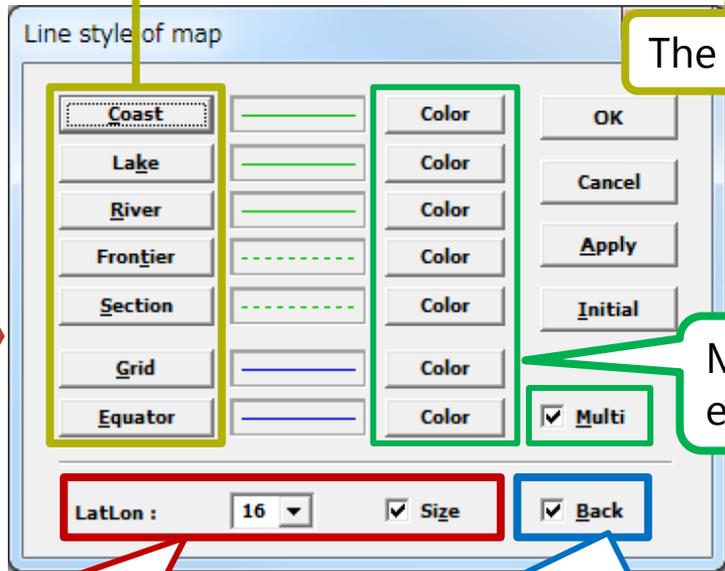
Click "Line color/style..."



The line style can be set here.

Width 1

The line width can be set here.



Multi can be checked to enable line color change.

Latitude and longitude character size can be changed here.

Latitude/longitude background can be toggled on and off here.



3. Displaying NWP Data



Displaying NWP data

4. Click "Exec" to display

2. Select NWP model

Shrink/extend window

3. Select the desired elements

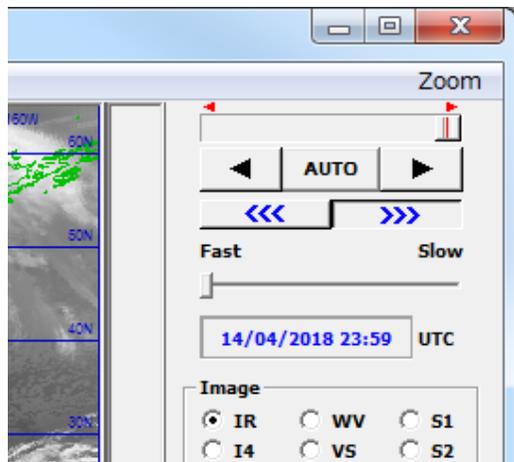
1. Check "NWP" to display a pop-up window

Available NWP data

Symbol	Content	Unit
Height	Altitude	gpm
Wind	Wind barb	kt
Isotac	Isotach	kt
Temp	Air temperature	°C
T-TD	Dew-point depression	°C
P-Vel	Vertical p-velocity	hPa/h
Vort	Relative vorticity	10 ⁻⁶ /s
EPT	Equivalent potential temperature	K
VWS	Vertical wind shear	kt/1000ft
Rain	Precipitation (3 hours)	mm/3h
Psea	Sea level pressure	hPa
SSI	Showalter stability index	°C
RH	Relative humidity	%
Div	Horizontal divergency	10 ⁻⁶ /s
POT	Potential temperature	K
RiN	Richardson number	-
CAPE	Convective available potential energy	J/kg
PV	Potential vorticity	0.1PVU
Avor	Absolute vorticity	10 ⁻⁶ /s
Adv	Temperature advection	10 ⁻⁶ /s/h
Vadv	Relative vorticity advection	0.1°C/h
SH	Specific humidity	0/1g/kg
EXT	Extra element (diff. between levels)	undefined

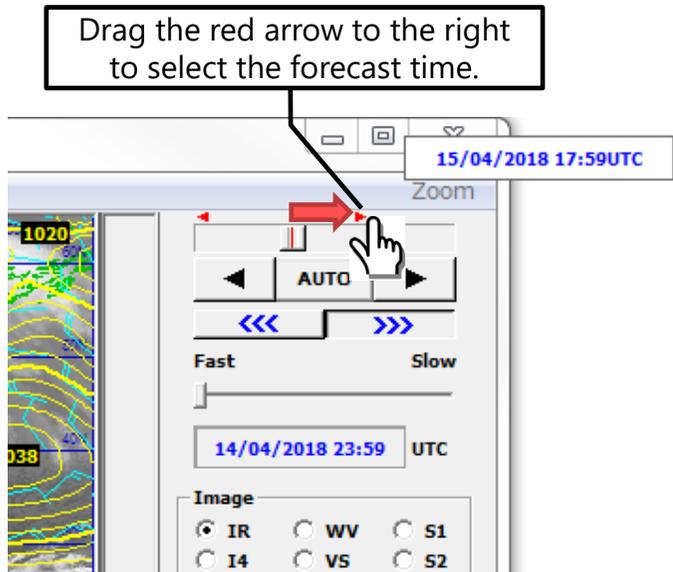
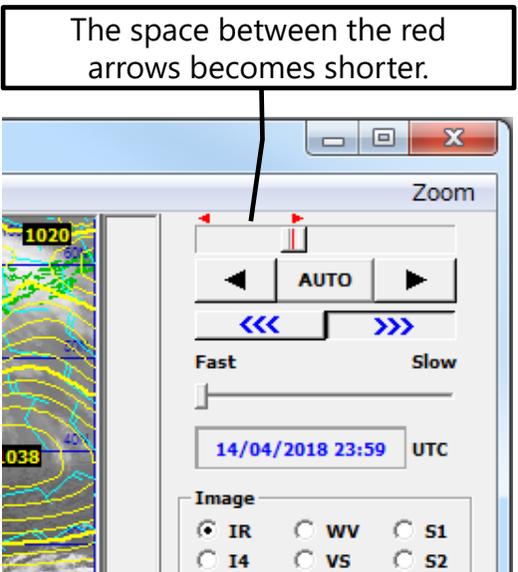
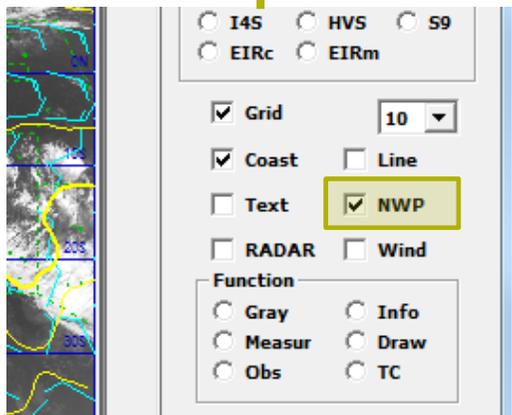


Displaying Forecast Values

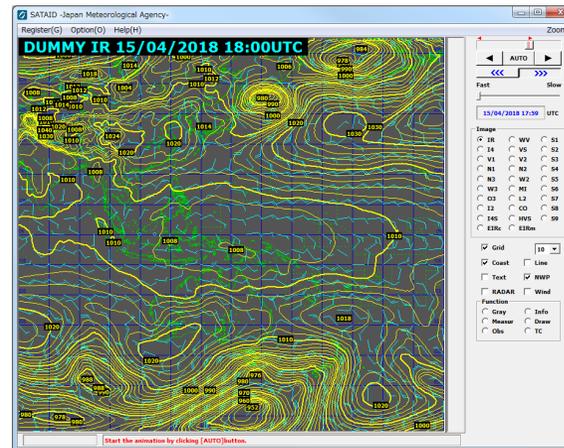


Before

Open NWP menu.



After



Satellite images are not shown while forecast time data are being displayed.



Displaying SST data

Zoom

14/04/2018 23:59 UTC

Image

- IR
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- HVS
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9
- EIRm

Coast Line

Text NWP

RADAR Wind

Function

- Gray
- Measur
- Obs
- Info
- Draw
- TC

NWP data

Exec RSMUP RSM5F **GSM** MSM LFM **SST** Close

Initial Setup

7mExternal?n

Endian Little Big

Delimiter comma Blank

4bytes float

Latit.: Corner(deg) 65.0000 Interval(deg) 0.2500 Numbers 281

Longi.: Corner(deg) 80.0000 Interval(deg) 0.2500 Numbers 481

Invalid -999.0000 Reference -273.1500 Scale 1.0000 Offset 0 (bytes)

File obsdata\sst%yyyy%mm%dd.f32

Color

40

20

Normal

14/04/2018 23:59 UTC

Image

- IR
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- HVS
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9
- EIRm

Grid 10

Coast Line

Text NWP

RADAR Wind

Function

- Gray
- Measur
- Obs
- Info
- Draw
- TC

Start the animation by clicking [AUTO] button.

4. Displaying Observation Data



Displaying SYNOP/SHIP/TEMP Data

Normal

Fast Slow

14/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- CO
- HV5
- EIRm
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9

Grid 10

Coast Line

Text NWP

RADAR Wind

Function

- Gray
- Measur
- Obs
- WPR
- AWS
- LIDEN
- Info
- Draw
- TC

Obs

- Synop
- WPR
- Track

Select Surf.

Synop data

Synop

- Surf
- 925
- 700
- 400
- 250
- 150
- 1000
- 850
- 500
- 300
- 200
- 100

Close

Vert

- Temp
- Pote
- Wind
- Stab

Cond Select Color

Path: F:\ANDATA Browse

Select a figure between 1,000 and 100.

Synop data

Synop

- Surf
- 925
- 700
- 400
- 250
- 150
- 1000
- 850
- 500
- 300
- 200
- 100

Close

Vert

- Temp
- Pote
- Wind
- Stab

Cond Select Color

Path: F:\ANDATA Browse

SYNOP/SHIP

Click a site on the display to open a pop-up window for that site.

47971 CHICHIJIMA
Pos.: 27.10N 142.20E Alt.: 8m
14/04/2018 00UTC
Pressure: 1020.5 hPa
Wind: NE 13 kt
Temp.: 23.1 °C
Total: 0 <= 1/8
Clouds(LMH): 100
Weather: x
Tendency: +0.4 hPa
Visibility: 25.0 km
Dew-point: 16.4 °C
Low-level: 0 <= 1/8
Past:

TEMP

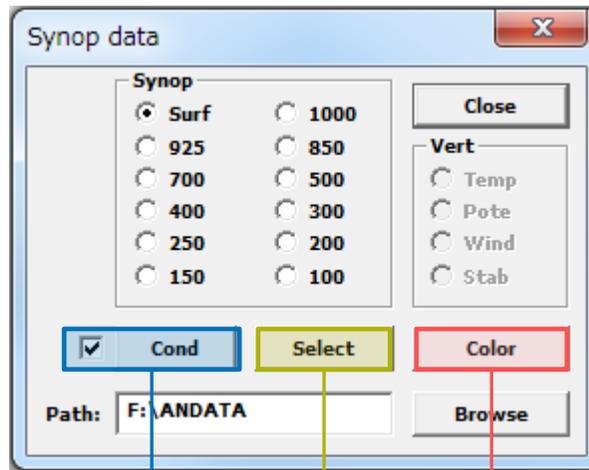
Check "Vert" and Click a site on the display to open a pop-up window for that site.

47945 MINAMITOJIMA
Pos.: 25.80N 131.20E Alt.: 21m
14/04/2018 00UTC

Temp. Dew-point temp.



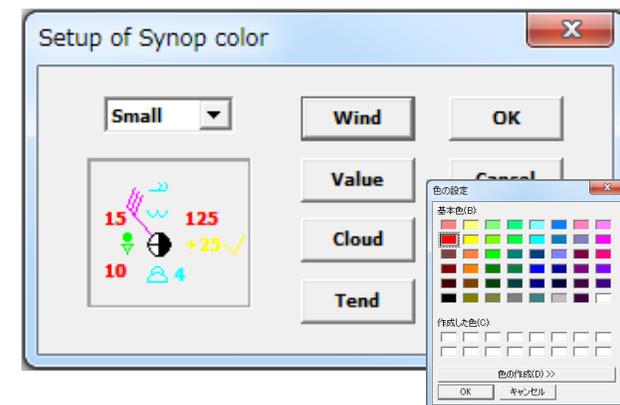
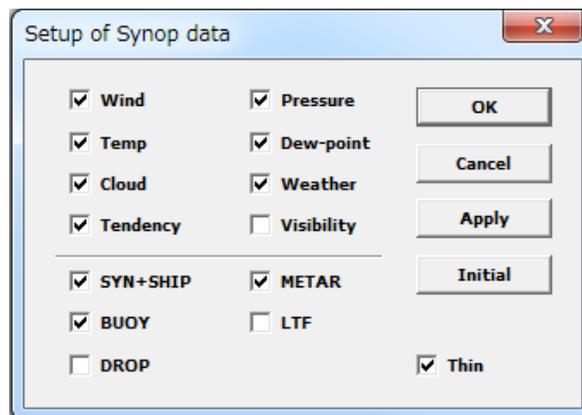
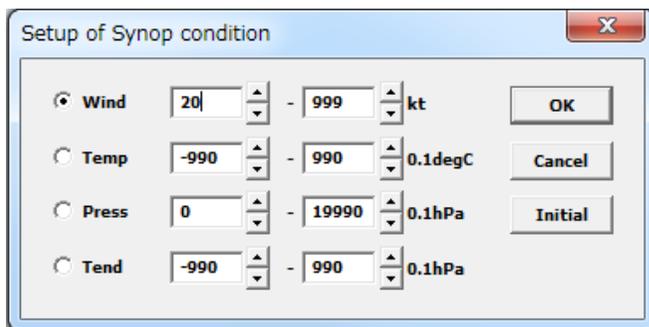
Displaying SYNOP/SHIP/TEMP Data



Set data display thresholds.

Select elements to be displayed

Set symbol size/color.





Displaying ASCAT Data

Normal

◀ AUTO ▶

◀◀ ▶▶

Fast Slow

14/04/2018 23:59 UTC

Image

IR WV S1
 I4 VS S2
 V1 V2 S3
 N1 N2 S4
 N3 W2 S5
 W3 MI S6
 O3 L2 S7
 I2 CO S8
 I4S HVS S9
 EIRc EIRm

Grid Text RADAR NWP

10

Check "Wind"

Wind

Function

Gray Info
 Measur Draw
 Obs TC

Obs

Synop WPR
 AWS Track
 LIDEN



SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 00:00UTC

63.8000N 103.4000E Display cloud motion wind data.

Normal

◀ AUTO ▶

◀◀ ▶▶

Fast Slow

13/04/2018 23:59 UTC

Image

IR WV S1
 I4 VS S2
 V1 V2 S3
 N1 N2 S4
 N3 W2 S5
 W3 MI S6
 O3 L2 S7
 I2 CO S8
 I4S HVS S9
 EIRc EIRm

Grid Coast Line Text NWP

Cloud motion wind data

Wind

Upper Col
 Lower Col
 Vapor Col
 Metop-B 50 Col
 Metop-A 50 Col
 Ext-3 Col
 Ext-4 Col
 Ext-5 Col
 Ext-6 Col
 Ext-7 Col

Cond Altitude Barb

Setup

Path: F:\TEXT Browse

5. Customizing Display



Adjusting Gradation and Enhancing Color

Normal

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- L2
- CO
- HVS
- EIRm
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9

Grid 10

Function

- Gray
- Measur
- Obs
- Info
- Draw
- TC

Gray

- Revs
- Color
- Initial

Brit

Cntr

Gray

- Revs
- Color
- Initial

Brit

Cntr

1. Adjust brightness.

2. Change contrast.

3. Reset grayscale.

1. Adjust brightness.
2. Change contrast.
3. Reset grayscale.

Select a radio button to change the grayscale setting.

Check "Sandwich" to display sandwich image.

Setting the emphasis

Mode

- 6bit
- 4bit
- Cols
- Mix
- Ext0
- Ext1
- Ext2
- Ext3
- Cmap

VIS

- hour
- Blue
- Sandwich

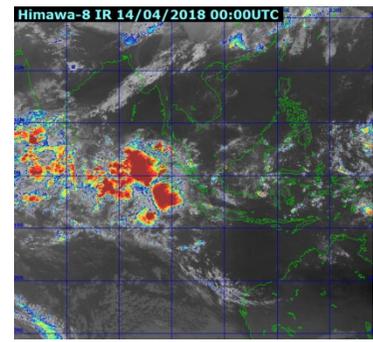
Close

Clear

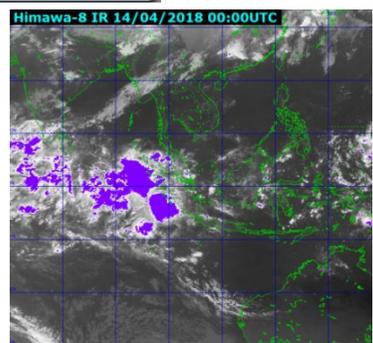
Set

Reset

Gradation display box



- To select a range to be emphasized: Click on two arbitrary points
- To clear the range to be emphasized: Right-click on the first point and left-click on the second.





Adjusting Gradation



SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 00:00UTC

Click on the display to adjust gradation.

Zoom

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- V5
- V2
- N2
- W2
- MI
- L2
- CO
- HVS
- EIRm
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9

Grid Coast Text RADAR

Function

- Gray
- Measur
- Obs
- Info
- Draw
- TC

Gray

Revs Color Initial

Brit

Cntr

Change the gray scale by controlling brightness and contrast.

6. Data Evaluation



Evaluation of brightness temperature

Normal

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- CO
- HVS
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9
- EIRm

Grid 10

Coast Line

Text NWP

RADAR Wind

Function

- Gray
- Info
- Measur
- Draw
- Obs
- TC

Measure

- Brit
- Move
- Time
- Cross
- Contour
- Hist

1. Click "Measur"

2. Click "Brit"

SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 00:00UTC

Click on the image

Brightness ...

13/04/2018 23:52UTC
Pos. : 40.3200N 135.0400E
Bri. : -60.3°C (205hPa) (38844ft)
Srf Win (kt) : SSE 12.5

60.8000N 99.4400E Select a point by clicking for measurement.

Normal

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- CO
- HVS
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9
- EIRm

Grid 10

Coast Line

Text NWP

RADAR Wind

Function

- Gray
- Info
- Measur
- Draw
- Obs
- TC

Measure

- Brit
- Move
- Time
- Cross
- Contour
- Hist

When NWP data are displayed, estimated altitudes will be shown.



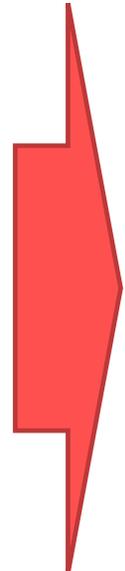
Parallax

Click the upper-left of the window when NWP data are displayed

Brightness ...

13/04/2018 23:52UTC
 Pos.: 10.3200N 135.0400E
 Bri.: 0.3°C (205hPa) (38844ft)
 Srf Win (kt) : SSE 12.5

- Print Ctrl+P
- Bitmap Ctrl+O
- Copy BS
- Kelvin Ctrl+K
- Sync view Ctrl+Y
- Parallax Ctrl+L**
- Vert.1(Temp)
- Vert.2(Pote)
- Vert.3(Wind)
- Vert.4(Stab)
- Vert.5(Traj)



SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 00:00UTC

Click on the image

Actual cloud position calculated using cloud top height

Parallax vector is automatically calculated.

Brightness ...

13/04/2018 23:54UTC
 Pos.: 7.5600N 73.2000E
 Bri.: -75.7°C (124hPa) (50623ft)
 Para.: 60.7km 93° (E)
 Srf Win (kt) : E 5.6

14.8800N 79.4400E Select a point by clicking for measurement.

Normal

AUTO

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- 14
- V1
- N1
- W3
- O3
- I2
- 145
- EIRc
- WV
- VS
- V2
- N2
- W2
- M1
- L2
- CO
- HVS
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9

Grid 10

Coast Line

Text NWP

RADAR Wind

Function

- Gray
- Measur
- Obs
- Info
- Draw
- TC

Measure

- Brit
- Time
- Contour
- Move
- Cross
- Hist



Evaluation of Movement (Vector)

Normal

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- CO
- HVS
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9
- EIRm

Grid 10

Coast Line Text NWP

RADAR Wind

Function

- Gray
- Info
- Measur
- Draw
- Obs
- TC

Measure

- Brit
- Time
- Contour
- Move
- Cross
- Hist

1. Click "Measur"

2. Click "Move"

SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 10:00UTC

Normal

AUTO

Fast Slow

14/04/2018 09:59

Image

- IR
- WV
- I4
- VS
- V1
- V2
- N1
- N2
- N3
- W2
- W3
- MI
- O3
- L2
- CO
- I4S
- HVS
- EIRc
- EIRm

Grid 10

Select the first point in the first image.

Change the time as desired.

SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 14:00UTC

Normal

AUTO

Fast Slow

14/04/2018 13:59 UTC

41.9600N 135.5600E Select a 2nd point

41.6000N 122.4400E Select a 1st point by clicking for movement.

Movement vector is automatically calculated.

Select the second point in the next image.

14/04/2018 09:53UTC

1st : 28.4000N 127.5600E

14/04/2018 13:53UTC

End : 28.6000N 129.4400E

Dist.: 185km (100NM)

Dire.: 83° (E)

Speed: 25KT

Movement speed is also calculated.



Time-series of brightness temperature with NWP

Normal

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- CO
- HVS
- EIRm
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9

Grid 10

Coast Line

RADAR Wind

Function

- Gray
- Measur
- Obs
- Info
- Draw
- TC

Measure

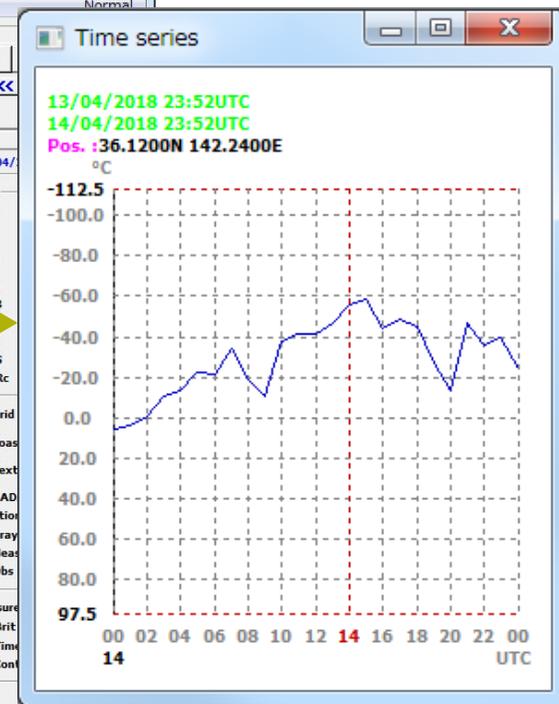
- Brit
- Move
- Time
- Cross
- Contour
- Hist

SATAID -Japan Meteorological Agency-

Register(G) Option(O) Help(H)

Himawa-8 IR 14/04/2018 14:00UTC

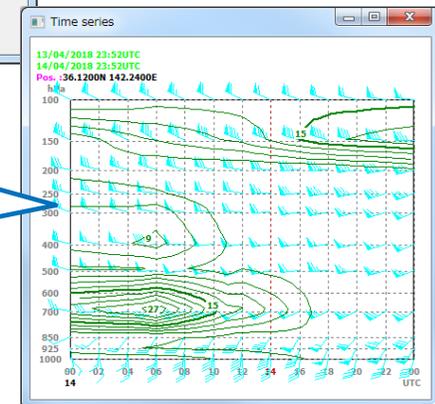
55.8000N 97.6400E Select a point by clicking for measurement.



1. Click "Measur"

2. Click "Time"

When NWP data are displayed, a time-series graph of NWP data for the selected point will be shown.





Cross-sectional Evaluation

Normal

Fast Slow

13/04/2018 23:59 UTC

Image

- IR
- I4
- V1
- N1
- N3
- W3
- O3
- I2
- I4S
- EIRc
- WV
- VS
- V2
- N2
- W2
- MI
- L2
- CO
- HVS
- EIRm
- S1
- S2
- S3
- S4
- S5
- S6
- S7
- S8
- S9

Grid 10

Coast Line

RADAR Wind

Function

- Gray
- Info
- Measur
- Draw
- Obs
- TC

Measure

- Brit
- Time
- Contour
- Move
- Cross
- Hist

1. Click "Measur"

2. Click "Cross"

SATAID - Japan Meteorological Agency

Register(G) Option(O) Help(H)

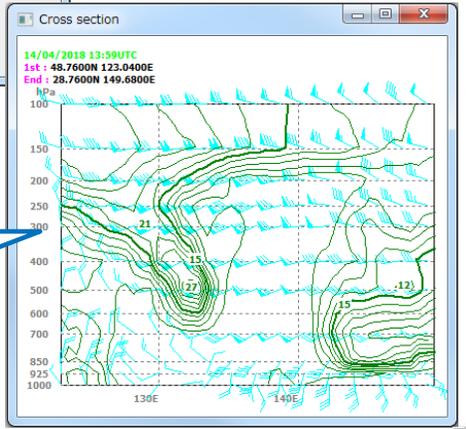
Himawa-8 IR 14/04/2018 14:00UTC

64.8800N 102.8000E Select a region by dragging for measurement.

Drag to define a cross section.



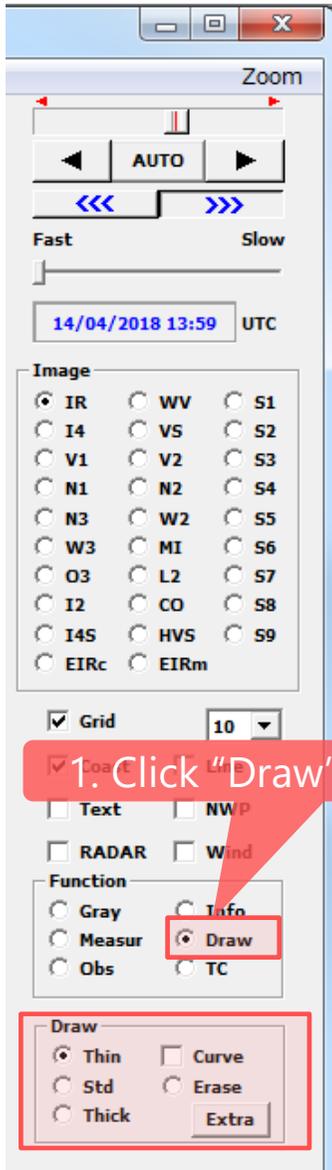
When NWP data is displayed, a cross-sectional graph of NWP data for the selected point will be shown.



7. Other Functions



Creating Drawings

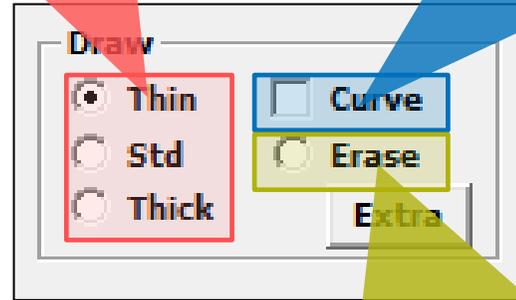


Select line width

- Select Thin, Standard or Thick.

Spline drawing

- Select the line width and check the [Curve] checkbox.
- Click on two or more points in the displayed image and double click on the end point.



Partial erasure

- Select the [Erase] checkbox.
- Click a line or a character string, etc. in the current image to erase it. The item will be displayed in reverse color, and will be erased if clicked again.

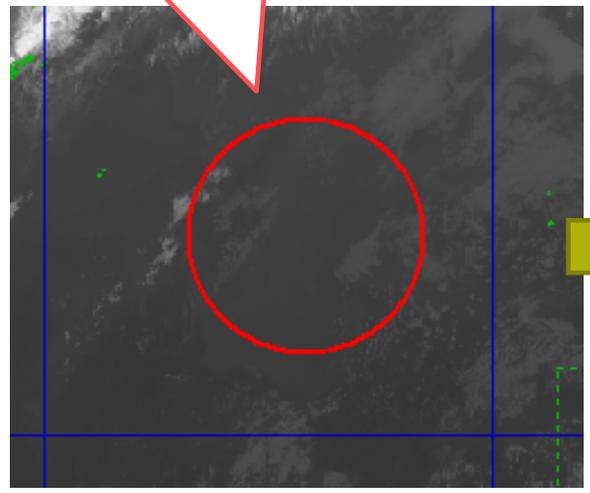
Tip

If neither [Curve] nor [Erase] is selected, freehand drawing is enabled.

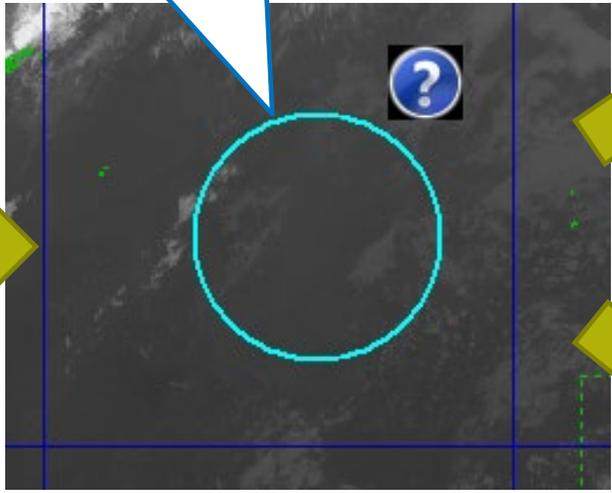


Deleting Drawings

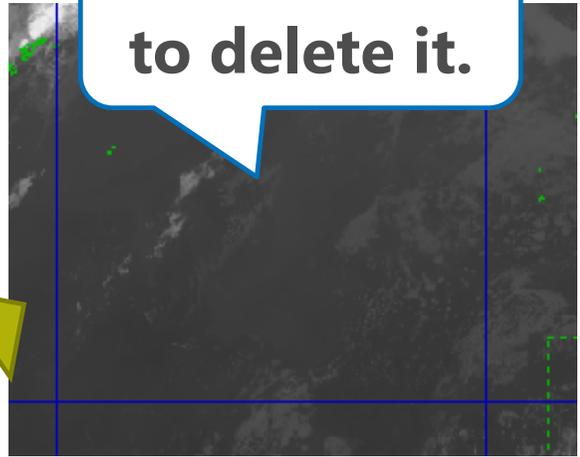
Right-click on the drawing.



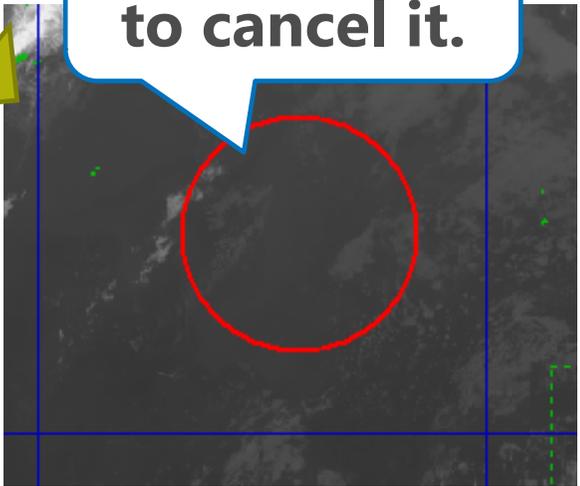
After color is reversed ...



Left click to delete it.

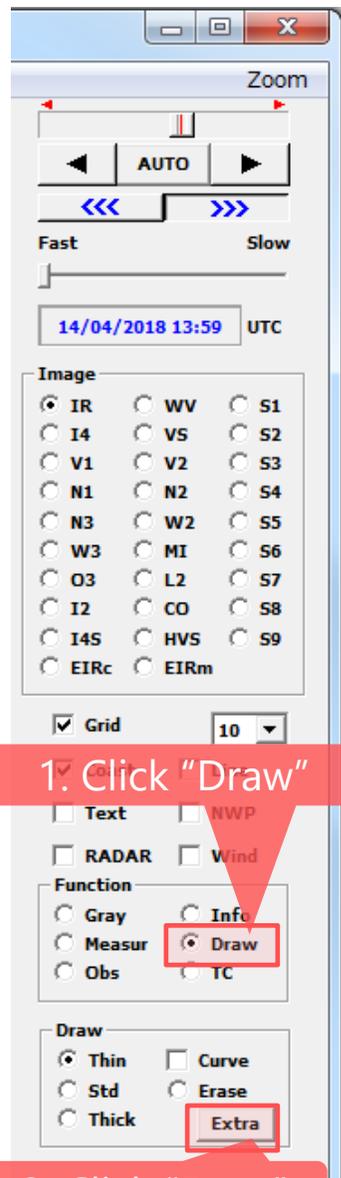


Right-click to cancel it.

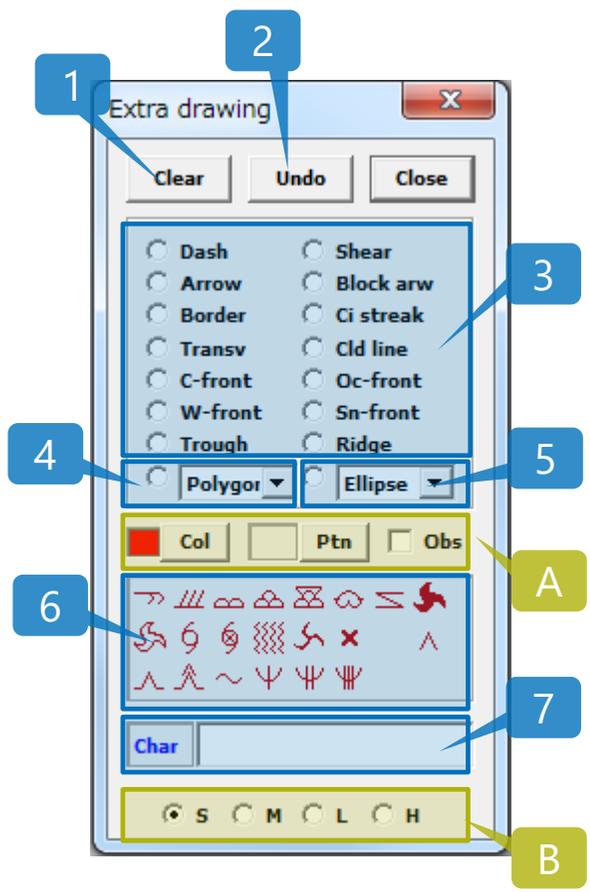




Creating Drawings



2. Click "Extra"

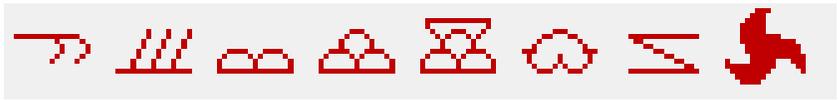


A: Change color and hatch pattern
B: Change symbol size

1. Delete all drawings. ([Clear] button)
2. Cancel the previous drawing operation. ([Undo] button)
3. Draw lines and arrows (fronts, troughs, or ridges), which can be created as with spline drawings.
**Click the [Sn-front] button with [Ctrl] pressed to draw a stationary front in red and blue.*
4. Draw polygons, closed curves, or cloud rims, which can be created as with spline drawings. In these figures, colors and hatched patterns can be changed.
5. Draw ellipses, circles, or flex oval. Colors can be changed and hatched patterns can be used for filling.
6. Paste cloud form symbols or vortex center symbols. (Drag a symbol to the desired point. The symbol size can be changed and the symbol can be reversed from left to right by dropping it with [Ctrl] pressed.)
7. Paste character strings. (Drag [Char] to the desired point. The character size can be changed.)
8. Paste wind barbs (Drag [Char] to the desired point after inputting WIND ddd (direction in 360 deg.) and fff (velocity). The wind barb size can be changed.)



Creating Drawings



1 2 3 4 5 6 7 8



9 10 11 12 13 14 15



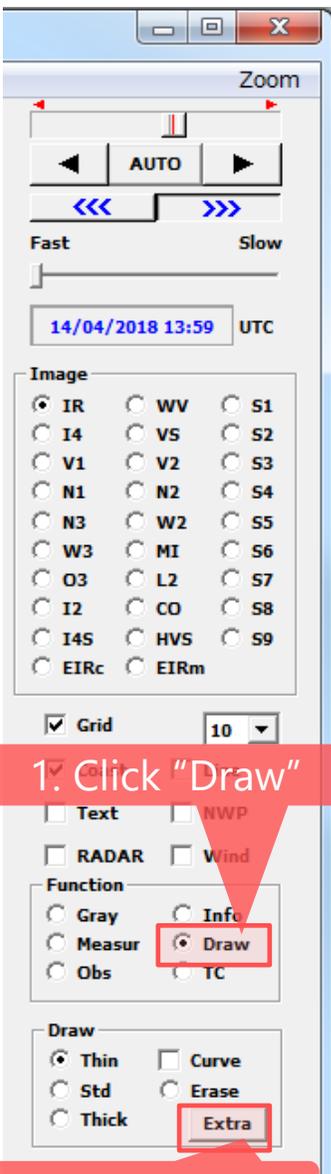
16 17 18 19 20 21

1	High-level cloud (Ci)
2	Middle-level cloud (Cm)
3	Cumulus (Cu)
4	Cumulus Congestus (Cg)
5	Cumulonimbus (Cb)
6	Stratus
7	Stratus or Fog
8	Low-level vortex
9	Upper-level vortex
10	Center of typhoon with eye
11	Center of typhoon without eye

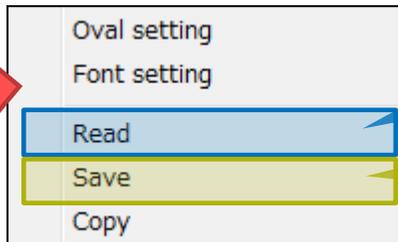
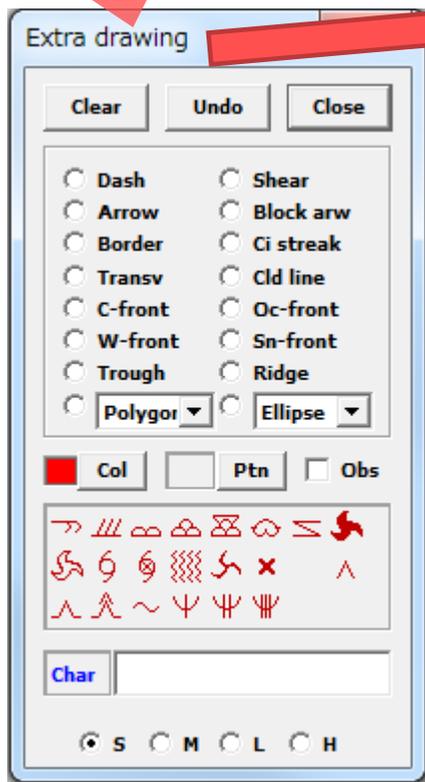
12	Waved cloud (Mountain wave)
13	Low-level vortex (Meso β -scale)
14	(Cross mark)
15	Light turbulence
16	Moderate turbulence
17	Severe turbulence
18	(Tilde mark)
19	Light icing
20	Moderate icing
21	Severe icing



Saving/Loading Drawings

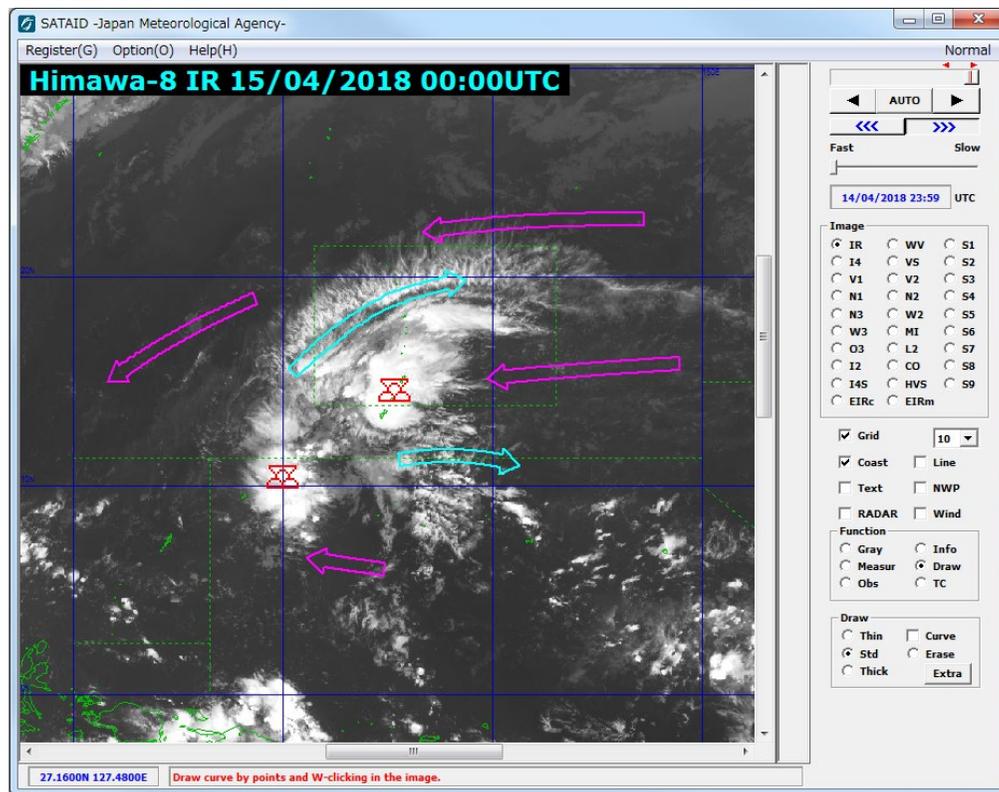


3. Click the upper frame of the window



Load drawing information from a text file

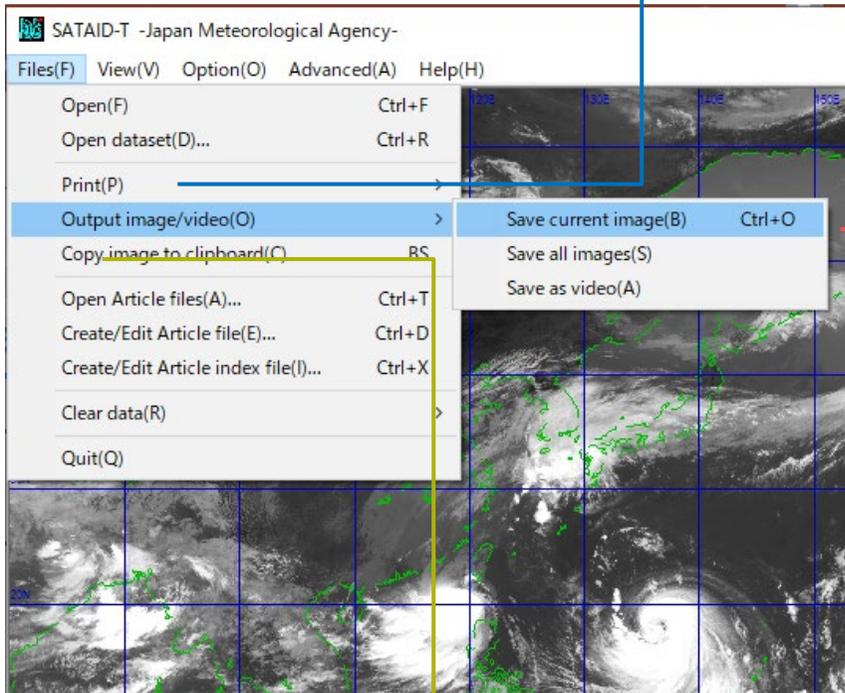
Save drawing information to a text file





Outputting Images

1. Select "Option"



Print image(P)	Ctrl+P
Print window(S)	Ctrl+H
Page setup(U)...	Ctrl+U

Print image: Output the current image to a printer
Print window: Output the entire screen to a printer
Page setup: Set the margins of the printing paper

Save current image(B)	Ctrl+O
Save all images(S)	
Save as video(A)	

Save current image: Output the current image as a bitmap file etc.
Save all images: Output images as bitmap files
Save as video: Output images as a Gif or Avi animation

Copy the current image to the clipboard