AMSR3 Data Viewer
FAQ

Issue	Date	Revision record	remarks
Original	1/2025	First edition issued	

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1 Introduction

This document is the Frequently Asked Questions (FAQ) for the AMSR3 Data Viewer (referred to as the application hereinafter).

2 FAQ

① What is the main purpose of this application?

The main purpose of this application is to map and display the observation data of AMSR3 (Advanced Microwave Scanning Radiometer 3) installed on GOSAT-GW (Global Observing SATellite for Greenhouse gases and Water cycle) on a map.

② In what environment can this application be used?

This application can be used in the following environments: Windows 10/11, MacOS 14, and Linux (Red Hat 9, equivalent to Kernel 5.14).

③ What products are available in this application?

This application allows the use of observation data from AMSR3 installed on GOSAT-GW. The target products are shown in Table 2-1.

Table 2-1 List of Target Products

Processing Level	Display Products			Mapping Display Contents on the Map	Format Conversion	Video Output
	Code		Description			
L1A	DNA		Count Value (1A)	RGB/Pseudocolor Image	Binary CSV Image NetCDF KML/KMZ	AVI
L1B	TBB		Brightness Temperature (1B)			
L1R	TBR		Resampled Brightness Temperature (1R)			
L1H	TBH		High-Resolution Brightness Temperature (1H)			
L1C	TBC		Center Position Corrected Brightness Temperature (1C)			
L2	TPW		Accumulated Water Vapor	Pseudocolor Image		
	CLW		Accumulated Cloud Water			
	PRC		Precipitation			
	SST		Sea Surface Temperature			
	SSW		Sea Surface Wind Speed			
	ASW		All-Weather Sea Surface Wind Speed			
	SIC		Sea Ice Concentration			
	HSI		High-Resolution Sea Ice Concentration			
	SMC		Soil Moisture Content			
	SND		Snow Depth			
	HST		High-Resolution Sea Surface Temperature			
L3	Brightness Temperature	TL1	Brightness Temperature 6.925GHz		Binary CSV Image KML/KMZ[*1] ([*1] excluding SIM)	AVI KML/KMZ[*2] ([*2] EQR data only)
		TL2	Brightness Temperature 7.3GHz			
		TL3	Brightness Temperature 10.25GHz			
		TL4	Brightness Temperature 10.65GHz			
		TL5	Brightness Temperature 18.7GHz			
		TL6	Brightness Temperature 23.8GHz			
		TL7	Brightness Temperature 36.42GHz			
		TH1	Brightness Temperature 89.0GHz			
		TH2	Brightness Temperature 165.5GHz			
		TH3	Brightness Temperature 183.31+/-3GHz			
		TH4	Brightness Temperature 183.31+/-7GHz			
	Atmosphere	TPW	Accumulated Water Vapor Amount			
		CLW	Accumulated Cloud Water Amount			
		PRC	Precipitation Amount			
	Ocean Polar	SST	Sea Surface Temperature			
		SSW	Sea surface wind Speed			
		ASW	All-weather sea surface wind speed			
		HST	High-resolution sea surface temperature			
	Region	SIC	Sea ice concentration			
		HSI	High-resolution sea ice concentration			
		SIM	Sea ice displacement vector			
	Land	SMC	Soil moisture content			
		SND	Snow depth			

④ Can HDF5 format files be used?

No, HDF5 format files cannot be used in this application. Instead, NetCDF format files can be used.

⑤ Where can I obtain the products available in this application?
The products available in this application can be obtained from G-Portal. You can access G-Portal at the following URL: https://gportal.jaxa.jp/gpr/?lang=ja.

⑥ Can I use the converted products of AMSR/AMSR-E/AMSR2 in NetCDF format?
No, you cannot utilize the converted products of AMSR/AMSR-E/AMSR2 in NetCDF format in this application.

⑦ Is there a way to register multiple products to the library at once?
Yes, you can register multiple products at once by selecting them in the file explorer and dragging and dropping them into the application.

⑧ Can the dataset displayed on the map be changed?
Yes, you can change the displayed dataset on the map. For L1 products, you can modify the section indicated in Table 2-2 within the "mapColorSetting.ini" and "mapColorSettingDefault.ini" files located in the config folder.

For L2 and L3 products that contain multiple datasets, you can change the displayed dataset by selecting the dataset from the combo box in the "Dataset" field within the Product List Area.

Table 2-2 L1 Product Display Datasets

Section	Key	Description
L1_X（X:0～4）		Color Definition Section for L1 Products
	DatasetR	Dataset Name assigned to Red (R) for RGB composite display
	DatasetG	Dataset Name assigned to Green (G) for RGB composite display
	DatasetB	Dataset Name assigned to Blue (B) for RGB composite display
	DatasetS	Dataset Name for Pseudo-color display
	LatR	Dataset Name for Latitude corresponding to DatasetR
	LatG	Dataset Name for Latitude corresponding to DatasetG
	LatB	Dataset Name for Latitude corresponding to DatasetB
	LatS	Dataset Name for Latitude corresponding to DatasetS
	LonR	Dataset Name for Longitude corresponding to DatasetR
	LonG	Dataset Name for Longitude corresponding to DatasetG
	LonB	Dataset Name for Longitude corresponding to DatasetB
	LonS	Dataset Name for Longitude corresponding to DatasetS

⑨ Is there a limit to the number of products that can be displayed on the map?

Yes, there is a limit to the number of products that can be displayed on the map at once. The maximum number is 10. If you want to change the display limit, you can modify the section indicated in Table 2-3 within the “userApp.ini” file located in the config folder.

Table 2-3 Concurrent Display Product Number Setting

Section	Key	Description
Common		Common Definition Section
	viewProductNum	Number of Products Simultaneously Displayable

⑩ What is the purpose of the Region Selection mode?

The purpose of the Region Selection mode is to allow you to perform conversions to binary (raw data) files, CSV files, image files, and KML (KMZ) files within the selected area.

⑪ Is there a way to change the color table used for product map display?

Yes, you can change the color table used for product map display. Here's how:

1. Select "Color Settings" from the "Display Settings" menu to display the Color Settings Screen.
2. To change the color table display, select the processing level and the product code of the target product. For L1 products, you can choose between RGB display or pseudo-color display. For L2 and L3 products, pseudo-color display settings are available.

For RGB display, click the "Edit" button in the Display Band (RGB) Settings section to set the value range of the displayed product data. (Refer to Figure 2-1)

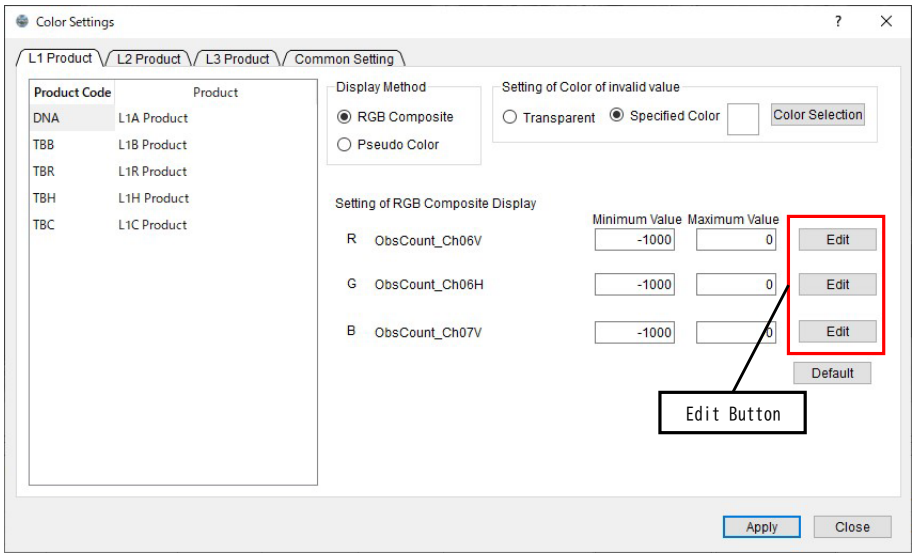

Figure 2-1 Color Settings Screen (RGB Composite Display Settings) Edit Button

For pseudo-color display, click the "Edit" button in the Pseudo-color Settings section to set the value range of the displayed product data. (Refer to Figure 2-2) Additionally, in the default color table of this application, you can change the color table display within the color assignment section. Furthermore, you can also load color palettes from cpt-city (URL: http://soliton.vm.bytemark.co.uk/pub/cpt-city/views/totp-cpt.html) by clicking the "Import" button. However, if an external color palette is loaded, the color palette cannot be changed.

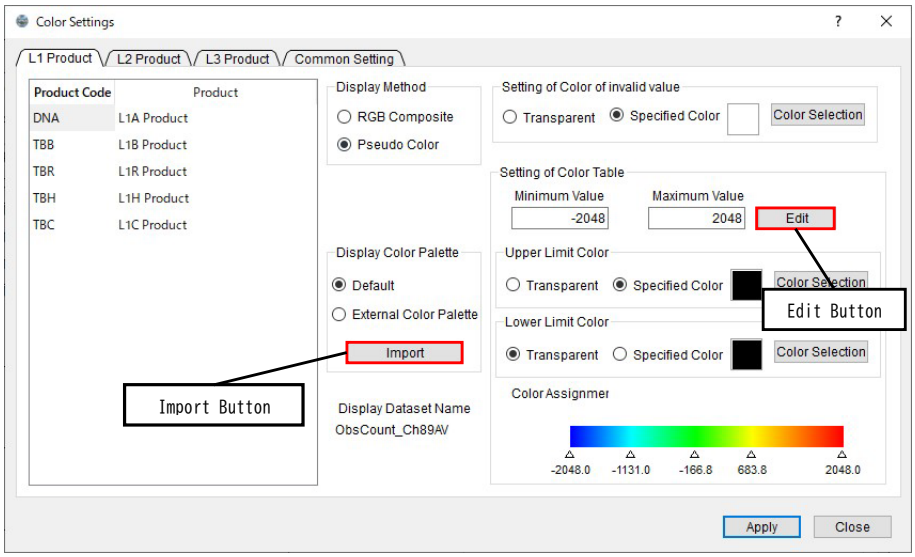

Figure 2-2 Color Settings Screen (Pseudo-color Display Settings) Edit Button

⑫ Is there a way to reset the color settings to default?

Yes, you can reset the color settings to default.

Select "Color Settings" from the "Display Settings" menu to display the Color Settings Screen.

For RGB display, click the "Default" button shown in Figure 2-3 to reset the truncation value range to the default state.

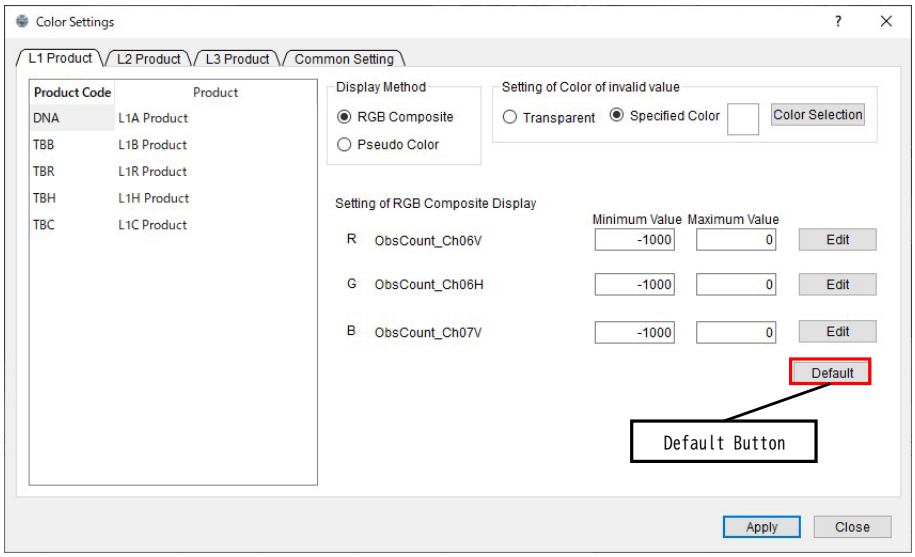

Figure 2-3 Color Settings Screen (RGB Composite Display Settings) Default Button

For pseudo-color display, select the "Default" radio button in the Display Color Palette section shown in Figure 2-4 to reset the color table settings to the default state.

Note that the color table settings before saving will not be retained, so please be careful.

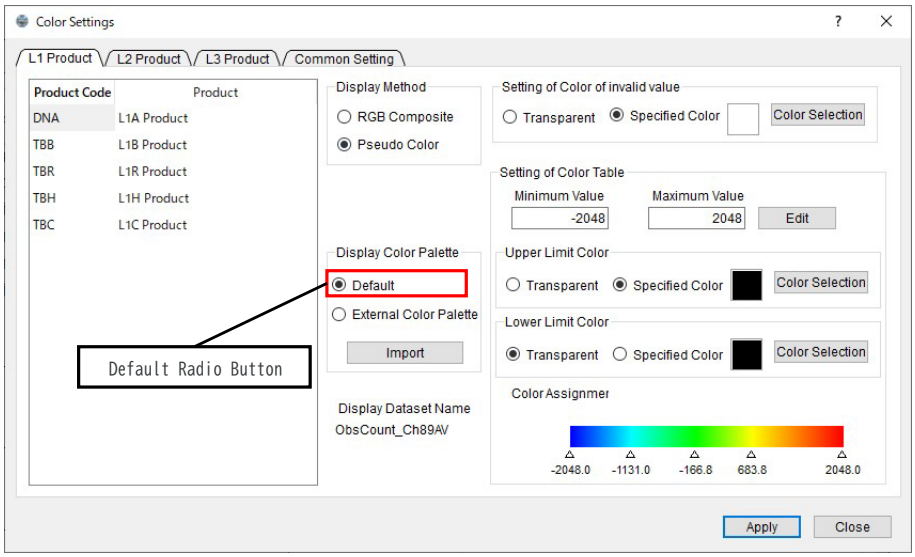

Figure 2-4 Color Settings Screen (Pseudo-color Display Settings) Default Button

⑬ Is it okay to launch this application multiple times simultaneously?

Yes, it is possible to launch this application multiple times simultaneously. However, please note that depending on the CPU and memory usage, the performance of the application may be slower.