Data Description

Aug. 2017 JAXA/EORC Updated in Oct. 2019 Updated in Mar. 2021 Updated in Jul. 2022

Precipitation [GSMaP]

Units	mm
Grid Size	0.1 degrees (Approx. 10 km)
	Daily
	Daily accumulated precipitation calculated from
Time Interval	hourly precipitation intensity by multiple satellites
and	Half-monthly
Meaning of the Value	Half-monthly accumulated precipitation of daily data
	Monthly
	Monthly accumulated precipitation of daily data
Updated to latest data	approximately 3 days later
No Data Value	-000
(Missing value etc.)	-999
Current Data Source	GSMaP Version6 calibrated by rain gauge (GCOM-W, GPM, Himawari etc.)

Short Wave Radiation [Terra/MODIS, Aqua/MODIS]

Units	W/m²
Grid Size	0.05 degrees (Approx. 5 km)
	Daily-Terra
	Estimated daily average solar radiation amount calculated from
	solar radiation observed by Terra satellite (local time 10:30)
	Daily-Aqua
Time Interval	Estimated daily average solar radiation amount calculated from
and	solar radiation observed by Aqua satellite (local time 13:30)
	Half-monthly
Meaning of the Value	Half-monthly average solar radiation amount of the above-mentioned
	two types of daily data
	Monthly
	Monthly average solar radiation amount of the above-mentioned two
	types of daily data
Updated to latest data	approximately half month later
No Data Value	-9999
(Missing value etc.)	
Current Data Source	JASMES-swr (MODIS)

Land Surface Temperature [Terra/MODIS, Aqua/MODIS]

Units	Degrees Celsius
Grid Size	0.05 degrees (Approx. 5 km)
	Daily-Terra-Daytime
	Land/sea surface temperature observed by Terra satellite (local time 10:30)
	Daily-Terra-Nighttime
	Land/sea surface temperature observed by Terra satellite (local time 22:30)
	Daily-Aqua-Daytime
	Land/sea surface temperature observed by Aqua satellite (local time 13:30)
	Daily-Aqua-Nighttime
	Land/sea surface temperature observed by Aqua satellite (local time 1:30)
	Half-monthly-Terra-Daytime
	Half-monthly average land/sea surface temperature observed by Terra satellite
	(local time 10:30)
	Half-monthly-Terra-Nighttime
	Half-monthly average land/sea surface temperature observed by Terra satellite
	(local time 22:30)
Time Interval	Half-monthly-Aqua-Daytime
and	Half-monthly average land/sea surface temperature observed by Aqua satellite
Meaning of the Value	(local time 13:30)
Wealing of the value	Half-monthly-Aqua-Nighttime
	Half-monthly average land/sea surface temperature observed by Aqua satellite
	(local time 1:30)
	Monthly-Terra-Daytime
	Monthly average land/sea surface temperature observed by Terra satellite
	(local time 10:30)
	Monthly-Terra-Nighttime
	Monthly average land/sea surface temperature observed by Terra satellite
	(local time 22:30)
	Monthly-Aqua-Daytime
	Monthly average land/sea surface temperature observed by Aqua satellite
	(local time 13:30)
	Monthly-Aqua-Nighttime
	Monthly average land/sea surface temperature observed by Aqua satellite
	(local time 1:30)
Updated to latest data	approximately 3 days later
No Data Value	-9999
(Missing value etc.)	

Current Data Source	NASA MOD11 (MODIS)
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Land Surface Temperature [GCOM-C SGLI]

Units	Degrees Celsius
Grid Size	0.041666 degrees (Approx. 4 km)
Time Interval	Daily-Daytime
and	Daytime Land surface temperature observed by GCOM-C satellite
Meaning of the Value	Daily-Nighttime
	Nighttime Land surface temperature observed by GCOM-C satellite
	8 days-Daytime
	8 days average Daytime Land surface temperature observed by
	GCOM-C satellite
	8 days-Nighttime
	8 days average Nighttime Land surface temperature observed by
	GCOM-C satellite
	Monthly-Daytime
	Monthly avarage Daytime Land surface temperature observed by
	GCOM-C satellite
	Monthly-Nighttime
	Monthly avarage Nighttime Land surface temperature observed by
	GCOM-C satellite
Updated to latest data	approximately 3 days later
No Data Value	-0000
(Missing value etc.)	-9999
Current Data Source	G-Portal (GCOM-C)

Aerosol Optical Thickness [Terra/MODIS, Aqua/MODIS]

Units	unit less
Grid Size	0.05 degrees (Approx. 5 km)
Time Interval and Meaning of the Value	Daily-Terra
	Aerosol optical thickness at 550nm observed by Terra satellite (daytime)
	Daily-Aqua
	Aerosol optical thickness at 550nm observed by Aqua satellite (daytime)
	Half-monthly
	Half-monthly average aerosol optical thickness
	of the above-mentioned two types of daily data
	Monthly
	Monthly average aerosol optical thickness
	of the above-mentioned two types of daily data
Updated to latest data	approximately half month later
No Data Value	-9999
(Missing value etc.)	
Current Data Source	JASMES-taua (MODIS)

Aerosol Optical Thickness (500nm) [GCOM-C SGLI]

Units	unit less
Grid Size	0.041666 degrees (Approx. 4 km)
	Daily
Time Interval	Aerosol optical thickness observed by GCOM-C satellite
and	8 days
Meaning of the Value	8 days average Aerosol optical thickness observed by GCOM-C satellite
	Monthly
	Monthly average Aerosol optical thickness observed by GCOM-C satellite
Updated to latest data	approximately 3 days later
No Data Value	0000
(Missing value etc.)	-9999
Current Data Source	G-Portal (GCOM-C)

Normalized Difference Vegetation Index [Terra/MODIS, Aqua/MODIS]

Units	unit less
Grid Size	0.05 degrees (Approx. 5 km)
Time Interval	Half-monthly
	The maximum value composite of daily normalized difference
	vegetation index observed by Terra and Aqua satellites (daytime)
	during the half-month
and Magning of the Volume	Monthly
Meaning of the Value	The maximum value composite of daily normalized difference
	vegetation index observed by Terra and Aqua satellites (daytime)
	during the month
Updated to latest data	On the 5th of the following month for each month, the 20th of the
	current month for the first half of the month, and the 5th of the next
	month for the last half of the month
No Data Value	0000
(Missing value etc.)	-9999
Current Data Source	JASMES-ndvi (MODIS)

Normalized Difference Vegetation Index [GCOM-C SGLI]

Units	unit less
Grid Size	0.041666 degrees (Approx. 4 km)
	Daily
Time Interval	normalized difference vegetation index observed by $\operatorname{GCOM-C}$ satellite
and	8 days
Meaning of the Value	8 days average normalized difference vegetation index observed by
	GCOM-C satellite
	Monthly
	Monthly average normalized difference vegetation index observed by
	GCOM-C satellite
Updated to latest data	approximately 3 days later
No Data Value	9999
(Missing value etc.)	-9999
Current Data Source	G-Portal (GCOM-C)

Soil Moisture Contents [AMSR-E/AMSR-2]

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Units	vol%
Grid Size	0.25 degrees (Approx. 25 km)
Time Interval	Daily
and	Soil moisture volumetric water content
Meaning of the Value	observed by Aqua, GCOM-W1 satellite (nighttime)
	Half-monthly
	Half-monthly average soil moisture volumetric water content
	of the above-mentioned daily data
	Monthly
	Monthly average soil moisture volumetric water
	content of the above-mentioned of daily data
Updated to latest data	approximately 3 days later
No Data Value	-9999
(Missing value etc.)	
Current Data Source	AMSR-E, AMSR-2 Standard Product (AMSR-E,AMSR-2)

Evelation [AW3D30]

Units	m
Grid Size	1 arcsecond (Approx. 30 m)
Time Interval and	Elevation of each point observed by ALOS satellite
Meaning of the Value	(Precisely, the height of the features from geoid)
No Data Value	-9999
(Missing value etc.)	
Current Data Source	AW3D30 (PRISM etc.)
	https://www.eorc.jaxa.jp/ALOS/en/index.htm