

AMSR2 Level-2 Product Pixel Data Quality

bit7-4: Error reason, bit3-0: Data status, Value: 8-bit unsigned integer

Sea Surface Temperature, SST (6GHz SST)

bit7	bi6	bit5	bit4	bit3	bit2	bit1	bit0	Value	Status
0	0	0	0	0	0	0	0	0	Normal
0	0	0	0	0	0	0	1	1	Strong wind (13 - 27 m/s)
0	0	0	0	0	0	1	0	2	Light rain (below several mm/h)
0	0	0	1	0	0	0	0	16	Satellite attitude out (incident angle: below 54 or over 56 degrees) (roll angle: above 0.01 degrees)
0	0	1	0	0	0	0	0	32	Land area (above 2 %)
0	0	1	1	0	0	0	0	48	Sea ice
0	1	0	0	0	0	0	0	64	Sun glint (less than 25 degrees)
0	1	0	1	0	0	0	0	80	Rain (above several mm/h)
0	1	1	0	0	0	0	0	96	Abnormal SST (Sea Surface Temperature) or RFI (Radio Frequency Interference)
0	1	1	1	0	0	0	0	112	Strong wind (above 27 m/s)
1	0	0	0	0	0	0	0	128	Cold SST (Sea Surface Temperature) (below minus 2 degC)

Notice: Data with the value 1 and 2 are less accurate than data with the value 0.

Sea Surface Temperature, SST (10GHz SST)

bit7	bi6	bit5	bit4	bit3	bit2	bit1	bit0	Value	Status
0	0	0	0	0	0	0	0	0	Normal
0	0	0	0	0	0	0	1	1	Strong wind (13 - 27 m/s)
0	0	0	0	0	0	1	0	2	SST (Sea Surface Temperature) below 9 degC
0	0	0	0	0	0	1	1	3	Strong wind (13 - 27 m/s) and SST (Sea Surface Temperature) below 9 degC
0	0	0	1	0	0	0	0	16	Satellite attitude out (incident angle: below 54 or over 56 degrees) (roll angle: above 0.01 degrees)
0	0	1	0	0	0	0	0	32	Land area (above 2 %)
0	0	1	1	0	0	0	0	48	Sea ice
0	1	0	0	0	0	0	0	64	Sun glint (less than 25 degrees)
0	1	0	1	0	0	0	0	80	Rain
0	1	1	0	0	0	0	0	96	Abnormal SST (Sea Surface Temperature) or RFI (Radio Frequency Interference)
0	1	1	1	0	0	0	0	112	Strong wind (above 27 m/s)
1	0	0	0	0	0	0	0	128	Cold SST (Sea Surface Temperature) (below minus 2 degC)

Notice: Data with the value 1, 2 and 3 are less accurate than data with the value 0.

Sea Surface Temperature, SST (Multi-band SST)

bit7	bi6	bit5	bit4	bit3	bit2	bit1	bit0	Value	Status
0	0	0	0	0	0	0	0	0	Normal
0	0	0	0	0	0	0	1	1	Strong wind (13 - 27 m/s)
0	0	0	0	0	0	1	0	2	Light rain (below several mm/h)
0	0	0	0	0	1	0	0	4	Land area in 6GHz SST (Sea Surface Temperature)
0	0	0	1	0	0	0	0	16	Satellite attitude out (incident angle: below 54 or over 56 degrees) (roll angle: above 0.01 degrees)
0	0	1	0	0	0	0	0	32	Land area (above 2 %)
0	0	1	1	0	0	0	0	48	Sea ice
0	1	0	0	0	0	0	0	64	Sun glint (less than 25 degrees)
0	1	0	1	0	0	0	0	80	Rain (above several mm/h)
0	1	1	0	0	0	0	0	96	Abnormal SST (Sea Surface Temperature) or RFI (Radio Frequency Interference)
0	1	1	1	0	0	0	0	112	Strong wind (above 27 m/s)
1	0	0	0	0	0	0	0	128	Cold SST (Sea Surface Temperature) (below minus 2 degC)

Notice: Data with the value 1, 2 and 4 are less accurate than data with the value 0.

* The values in the table are the values when read as 8-bit unsigned integer.