



# Aqua/AMSR-E Satellite dataset

## 1. IDENTIFICATION INFORMATION

Name	Aqua/AMSR-E Satellite dataset
Metadata Identifier	Aqua_AMSR_E20230727082446-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

Name	Japan Aerospace Exploration Agency GCOM-W1 Data Providing Service Help Desk
E-mail	z-gwlhelp@jaxa.jp

### 2.2 CONTACT on PROJECT

## 3. DOCUMENT AUTHOR

Name	Satoko Miura
Organization	JAXA/Mission Operations System Office (MOSS)

## 4. DATASET CREATOR

Name	JAXA
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## 5. DATE OF THIS DOCUMENT

2023-07-27

## 6. DATE OF DATASET

creation : 2013-04-30

## 7. DATASET OVERVIEW

### 7.1 Abstract

AMSR-E was modified for Aqua from the design used for AMSR which was onboard ADEOS-2.

AMSR-E and AMSR are microwave sensors capable of accurately acquiring weak radiation from land surface and atmosphere with its wide frequency bands and to obtain necessary data for the study of

earth hydrologic circulation. Microwave sensors, unlike optical sensors, can continuously observe night and day and regardless of weather. Allocating AMSR on a morning orbit and AMSR-E on an afternoon orbit allows observation of everyday changes of the earth's environment, and it is expected to contribute to the study of the earth's environmental system.

## 7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

oceans

## 7.3 Temporal Extent

Begin Date	2002-06-01
End Date	2011-10-04

## 7.4 Geographic Bounding Box

North latitude bound	90
West longitude bound	-180
Eastbound longitude	180
South latitude bound	-90

## 7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
		()
		()

## 7.6 Geographic Description

## 7.7 Keywords

### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Atmospheric Water Vapor > Humidity, Atmosphere > Atmospheric Water Vapor > Water Vapor, Land Surface > Soils > Soil Moisture/Water Content, Atmosphere > Precipitation > Precipitation Amount, Oceans > Ocean Temperature > Sea Surface Temperature, Cryosphere > Snow/Ice > Snow Water Equivalent	GCMD_science

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## 7.7.2 Keywords on Project

## 7.8 Online Resource

JAXA GCOM-W1 Data Providing Service : <https://gcom-w1.jaxa.jp/auth.html>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
HDF-EOS		

# 8. DATA PROCESSING

## 8.1 Data Processing (1)

### 8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

The followings products are available;

[Level1 ]

Sensor Count(L1A)

Brightness Temperature(L1B)

[Level2]

Total Precipitable Water

Cloud Liquid Water

Precipitation

Sea Surface Temperature

Sea Surface Wind speed

Sea Ice Concentration

Snow Depth

Soil Moisture Content

[Level3]

Physical Parameters

Total Precipitable Water

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Cloud Liquid Water  
Precipitation  
Sea Surface Temperature  
Sea Surface Wind speed  
Sea Ice Concentration  
Snow Depth  
Soil Moisture Content  
Brightness Temperature

### 8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used
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## 9. DATA REMARKS

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

### 10.2 Data Policy by the Project

## 11. LICENSE

## 12. DATA SOURCE ACKNOWLEDGEMENT

### 12.1 Acknowledge the Data Provider

### 12.2 Acknowledge the Project

## 13. REFERENCES