



TRMM/PR Satellite dataset

1. IDENTIFICATION INFORMATION

Name	TRMM/PR Satellite dataset
Metadata Identifier	TRMM_PR20181214174540-en

2. CONTACT

2.1 CONTACT on DATASET

Name	Japan Aerospace Exploration Agency G-Portal support desk
Organization	Japan Aerospace Exploration Agency
E-mail	z-gportal-support@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

2018-12-14

6. DATE OF DATASET

creation : 2013-04-30

7. DATASET OVERVIEW

7.1 Abstract

The Precipitation Radar (PR) onboard TRMM is the first spaceborne rain radar in the world, and is developed by JAXA in cooperation with

NICT. Major objectives of PR are;(1) to provide 3 dimensional rainfall structure, (2) to achieve quantitative rainfall measurement over land as well as the oceans, and

(3) to improve the accuracy of TRMM Microwave Imager (TMI) measurement by providing the rain structure information.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1997-12-12
End Date	Under Continuation

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 > Clouds > Cloud Microphysics > Cloud Liquid Water/Ice, Atmosphere > Precipitation > Precipitation Amount, Atmosphere > Precipitation > Rain	GCMD_science

7.7.2 Keywords on Project

7.8 Online Resource

JAXA/Globe-Portal (G-Portal) : <https://www.gportal.jaxa.jp/gp/top.html>

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
HDF-EOS format		

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 following products are available;

1. 1B21

Calibrated Received Power

Scene Unit: 1 orbit (16/day)

2. 1C21

Radar Reflectivity

Scene Unit: 1 orbit (16/day)

3. 2A21

Normalized Radar Surface Cross Section (σ_0)

Scene Unit 1 orbit (16/day)

4. 2A23

PR Qualitative

Scene Unit: 1 orbit (16/day)

5. 2A25

Rain Profile

Scene Unit: 1 orbit (16/day)

6. 3A25

Monthly Statistics of Rain Parameter

Scene Unit: Global Map (Monthly) (Grid: 5° x 5° , 0.5° x 0.5°)

7. 3A26

Monthly Rain Rate using a Statistical Method

Scene Unit: Global Map (Monthly) (Grid: 5° x 5°)

8. PR Gridded Latent Heating Profiles

Latent heating, Q1-QR, and Q2 profiles derived from TRMM/PR 2H25. The spatial coverage is one orbit with a single grid cell being 0.5deg x 0.5deg.

9. PR Monthly Latent Heating Profiles

Latent heating, Q1-QR, and Q2 profiles derived from TRMM/PR 2H25. The spatial coverage is global with a single grid cell being 0.5deg x 0.5deg.

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. USE CONSTRAINTS

10.1 Data Policy by Data Provider

10.2 Data Policy for Project

10.3 Disclaimer for Project

11 ACKNOWLEDGEMENT

11.1 Dataset Acknowledgement

11.2 Project Acknowledgement

12. REFERENCES

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