



DIAS_Satellite_GPM_GSMaP dataset

1. IDENTIFICATION INFORMATION

Name	DIAS_Satellite_GPM_GSMaP dataset
DOI	doi:10.20783/DIAS.281 [https://doi.org/10.20783/DIAS.281]
Metadata Identifier	DIAS_Satellite_GPM_GSMaP20230727074655-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

Name	JAXA DIAS representative
Organization	Japan Aerospace Exploration Agency
Address	2-1-1 Sengen, Tsukuba-shi, Ibaraki, 305-8505, Japan
TEL	+81 50 3362 3064
FAX	+81 29 868 2961
E-mail	dias at ml dot jaxa dot jp

2.2 CONTACT on PROJECT

2.2.1 Data Integration and Analysis System

Name	DIAS Office
Organization	Japan Agency for Marine-Earth Science and Technology
Address	3173-25, Showa-Cho, Kanazawa-ku, Yokohama-shi, Kanagawa, 236-0001, Japan
E-mail	dias-office@diasjp.net

3. DOCUMENT AUTHOR

Name	JAXA DIAS representative
Organization	Japan Aerospace Exploration Agency
E-mail	dias at ml dot jaxa dot jp

4. DATASET CREATOR

Name	JAXA DIAS representative
Organization	Japan Aerospace Exploration Agency
E-mail	dias at ml dot jaxa dot jp

5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2016-01-04

7. DATASET OVERVIEW

7.1 Abstract

GSMaP product produces global precipitation distribution with high temporal

and spatial resolution. The technique uses the Kalman filter to compute the estimates of the current surface rain fall rates at each 0.1 degree pixel of the infrared brightness temperature by the GEO-IR satellites. The filter predict the precipitation rate from the microwave radiometer and its morphed product obtained in a similar way as the Joyce et al. (2004), and then refine the prediction based on the relationship between the IR brightness temperature and surface rainfall rate. In No.3 DVD product, the backward process is introduced to produce the global precipitation map as is the same in No.2. The rain rates from the passive microwave radiometers are generated by Aonashi (2000).

See Ushio et al. (2009) for detail.

■Resolution

0.1 deg

■Product Area

Global(N60-S60)

7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	2014-03-01
End Date	2014-12-31

7.4 Geographic Bounding Box

North latitude bound	60
West longitude bound	-180
Eastbound longitude	180
South latitude bound	-60

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
column	3600	0.1 (deg)
row	1200	0.1 (deg)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Precipitation > Precipitation Rate	GCMD_science

7.7.2 Keywords on Project

7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS > Data Integration and Analysis System	No_Dictionary

7.8 Online Resource

JAXA/EORC GSMP Web : <http://sharaku.eorc.jaxa.jp/GSMaP/index.htm>

File download from the DIAS : <https://data.diasjp.net/dl/storages/filelist/dataset:281>

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
------	---------	---------------

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

10.2 Data Policy by the Project

10.2.1 Data Integration and Analysis System

If data provider does not have data policy, DIAS Terms of Service (<https://diasjp.net/en/terms/>) and DIAS Privacy Policy (<https://diasjp.net/en/privacy/>) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

12.2 Acknowledge the Project

12.2.1 Data Integration and Analysis System

If you plan to use this dataset for a conference presentation, paper, journal article, or report etc., please include acknowledgments referred to following examples. If the data provider describes examples of acknowledgments, include them as well.

” In this study, [Name of Dataset] provided by [Name of Data Provider] was utilized. This dataset was also collected and provided under the Data Integration and Analysis System (DIAS), which was developed and operated by a project supported by the Ministry of Education, Culture, Sports, Science and Technology. ”

13. REFERENCES