APHRODITE monsoon Asia Precipitation data

1. IDENTIFICATION INFORMATION

Name	APHRODITE monsoon Asia Precipitation data
Edition	V1101
Abbreviation	APHRO_MA
Metadata Identifier	APHRO_MA20230727073427-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

Name	APHRODITE Team
Organization	Hirosaki University
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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
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3. DOCUMENT AUTHOR

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4. DATASET CREATOR

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2010-06-01

7. DATASET OVERVIEW

7.1 Abstract

Asian Precipitation - Highly-Resolved Observational Data Integration Towards Evaluation (APHRODITE's) of Water Resources project develops state-of-the-art daily precipitation and temperature datasets with high-resolution grids for Asia. The datasets are created primarily with data obtained from a rain-gauge-observation network.

Product APHRO_MA offers gridded daily precipitation of the monsoon Asia for 1951-2007.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1951-01-01
End Date	2007-12-31
Temporal Characteristics	Daily

7.4 Geographic Bounding Box

North bound latitude	55
West bound longitude	60
Eastbound longitude	150
South bound latitude	-15

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	360	15 (minute)
column	280	15 (minute)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	APHRODITE, daily precipitation, monsoon Asia	No_Dictionary

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

File download : https://data.diasjp.net/dl/storages/filelist/dataset:262

The latest version data and update data of APHRODITE are released from "http://aphrodite.st.hirosaki-u.ac.jp". : http://aphrodite.st.hirosaki-u.ac.jp

7.9 Data Environmental Information

1.Original station data and their location information are not provided because of our agreements with data providers. 2.We release the gridded product at 0.25-degree and 0.5-degree resolution. 3.As a part of our feedback to data providers, we provide the 0.05-degree product for only the corresponding country/area.

7.10 Distribution Information

name	version	specification
netCDF	lats4d 2.0.1	
4byte little endian	N/A	

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 gridded fields of daily precipitation are defined by interpolating gauge observations obtained from meteorological stations throughout the region.

Please refer to

http://www.chikyu.ac.jp/precip/

for the details of interpolation algorithm and input data.

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used

9. DATA REMARKS

Details on quality control method of our product is described in Hamada et al.(2011)

10. DATA POLICY

10.1 Data Policy by the Data Provider

1.APHRODITE products are available to all academic institutions and researchers. No commercial use of the data is allowed.

2.Each user shall sign up with a valid email address so as to be informed of data updates and/or errata.

3.APHRODITE data shall not be redistributed as a whole or in part to the general public through the Internet or other means.

4.Although all reasonable precautions have been taken by the APHRODITE project in preparing the products, in no event shall the APHRODITE project be liable for any loss or damage arising from their use.

5.If you want to release secondary products using APHRODITE data on your website or through other means, you must contact the APHRODITE project for permission.

6.Papers or written scientific works of any form based in whole or in part on APHRODITE data shall contain an acknowledgement of APHRODITE. This can be done by citing an appropriate reference paper or this web site (http://www.chikyu.ac.jp/precip/).

Users

1.If you are going to use APHRODITE data as a benchmark in your project, we encourage you to inform us. We list such groups/projects on our website and exchange information for future improvements.

2.If you publish a paper, please inform us. We will list your paper on our website. (http://www.chikyu.ac.jp/precip/research/index.html)

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

Papers or written scientific works of any form based in whole or in part on APHRODITE data shall contain an acknowledgement of APHRODITE. This can be done by citing an appropriate reference paper or APHRODITE web site (http://www.chikyu.ac.jp/precip/).

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

Yatagai, A., K. Kamiguchi, O. Arakawa, A. Hamada, N. Yasutomi and A. Kitoh (2012): APHRODITE: Constructing a Long-term Daily Gridded Precipitation Dataset for Asia based on a Dense Network of Rain Gauges, Bulletin of American Meteorological Society, doi:10.1175/BAMS-D-11-00122.1.

Hamada, A., O. Arakawa and A. Yatagai (2011): An automated quality control method for daily rain-gauge data. Global Environmental Research, V15N2, pp183-192.