West Sumatra Radar-Raingauge Integrated Data Version 1.1

1. IDENTIFICATION INFORMATION

Name	West Sumatra Radar-Raingauge Integrated Data Version 1.1
Abbreviation	WeSRI 1.1
DOI	doi:10.20783/DIAS.37 [https://doi.org/10.20783/DIAS.37]
Metadata Identifier	WeSRI20230727051116-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

revision : 2008-08-02

7. DATASET OVERVIEW

7.1 Abstract

This is a gridded data set of precipitation over West Sumatra in Indonesia which is based on an integration technique of weather radar and ground-based raingauge data. We first derived an empirical relationship between radar and raingauge measurements. By using the relationship, we converted radar measurements into precipitation at each grid point. As pre-processing radar data, the effect of mountain shadow was taken account of. For evaluation of the effect, we developed a tool for analysing visibility of targets from radar using gridded terrain data. The effect of rain attenuation due to short wavelength of the radar was not considered.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

environment

7.3 Temporal Extent

Begin Date	2006-10-28
End Date	2006-11-27
Temporal Characteristics	30minute

7.4 Geographic Bounding Box

North bound latitude	-0.05
West bound longitude	99.55
Eastbound longitude	101.05
South bound latitude	-1.55

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
place	Asia > South Eastern Asia > Indonesia	Country
theme	Atmosphere > Precipitation > Precipitation Rate	GCMD_science
theme	ATMOSPHERIC PROCESSES > Precipitation, HYDROLOGY > Precipitation	AGU
theme	Water, Weather, Disasters	GEOSS

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

You can find further details of WeSRI 1.1 at : http://www.jamstec.go.jp/e/medid/dias/kadai/mon/mon_rr.html

file download : https://data.diasjp.net/dl/storages/filelist/dataset:37

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

The creators of this dataset are not responsible for any loss or damage caused by using this dataset. The source should be properly acknowledged in any work obtained with this dataset, as follows."WeSRI 1.1 is based on observations from a weather radar in the HARIMAU (Hydrometeorological

Array for ISV-Monsoon Automonitoring) project and a data integration technique developed in the DIAS (Data Integration and Analysis System) project, funded by the Ministry of Education, Culture, Sports, Science and Technology of Japan."

This data set should be referenced as follows."Hideyuki Kamimera, 2009: West Sumatra Radar-Raingauge Integrated Data Version 1.1 (WeSRI 1.1).Data Integration and Analysis System in Japan Agency for Marine-Earth Science and Technology, Yokohama, Japan."

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