DIAS Dynamical Regional Downscaling Using the JRA-55 Reanalysis (DSJRA-55)

1. IDENTIFICATION INFORMATION

Name	Dynamical Regional Downscaling Using the JRA-55 Reanalysis (DSJRA-55)
Metadata Identifier	DSJRA5520230727074847-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

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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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4. DATASET CREATOR

Name	Numerical Prediction Division, Information Infrastructure Department
Organization	Japan Meteorological Agency

5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

7. DATASET OVERVIEW

7.1 Abstract

DSJRA-55 (Kayaba et al. 2016) is a dynamical regional downscaling using the Japanese 55-year Reanalysis (JRA-55, Kobayashi et al. 2015) dataset for initial and boundary conditions. The Japan Meteorological Agency (JMA) has conducted DSJRA-55 for the period from 1958 to 2012 to produce a climate dataset with a horizontal resolution of 5 km that appropriately represents phenomena associated with Japan's uneven terrain. DSJRA-55 is presented as a dataset helping to clarify climatic characteristics (such as trends of extreme phenomena) and supporting case studies on extreme events in Japan.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1958-01-01
End Date	2012-12-31
Temporal Characteristics	Hourly

7.4 Geographic Bounding Box

North bound latitude	48.8008
West bound longitude	107.498
Eastbound longitude	156.151
South bound latitude	19.6995

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	721	5 (km)
column	577	5 (km)
vertical	16	25-100 (hPa)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere	GCMD_science
theme	Models	GCMD_platform
theme	Climate, Weather	GEOSS

7.7.2 Keywords on Project

7.7.2.1 Data Integration and Analysis System

Keyword Type	Keyword	Keyword thesaurus Name
theme	DIAS &gt; Data Integration and Analysis System	No_Dictionary

7.8 Online Resource

JRA project website : http://jra.kishou.go.jp/

Dynamical Regional Downscaling Using the JRA-55 Reanalysis (DSJRA-55) website (in English) : http://jra.kishou.go.jp/DSJRA-55/index_en.html

Dynamical Regional Downscaling Using the JRA-55 Reanalysis (DSJRA-55) website (in Japanese) : http://jra.kishou.go.jp/DSJRA-55/index_ja.html

DSJRA-55 Product Users Handbook (in English) : http://jra.kishou.go.jp/DSJRA-55/index_en.html#MANUAL

DSJRA-55 Product Users Handbook (in Japanese) : http://jra.kishou.go.jp/DSJRA-55/index_ja.html#MANUAL

file download : https://data.diasjp.net/dl/storages/filelist/dataset:284

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
GRIB	2	

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

(1) Users should provide user information including name, affiliation, e-mail address and purpose of data use.

(2) Users should not distribute the Products to any third party without JMA's prior consent. Use of the Products for any commercial purposes is also prohibited.

(3) The source of the Products should be duly acknowledged in scientific or technical papers, publications, press releases or other communications regarding the Products.

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10.2.1 Data Integration and Analysis System

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11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

The source of the Products should be duly acknowledged in scientific or technical papers, publications, press releases or other communications regarding the Products.

Example:

The datasets used for this study are provided from the Japan Meteorological Agency (JMA).

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

Kayaba, N., T. Yamada, S. Hayashi, K. Onogi, S. Kobayashi, K. Yoshimoto, K. Kamiguchi, and K. Yamashita, 2016: Dynamical Regional Downscaling Using the JRA-55 Reanalysis (DSJRA-55). SOLA, 12, 1-5. http://doi.org/10.2151/sola.2016-001.

Kobayashi, S., Y. Ota, Y. Harada, A. Ebita, M. Moriya, H. Onoda, K. Onogi, H. Kamahori, C. Kobayashi, H. Endo, K. Miyaoka, and K. Takahashi , 2015: The JRA-55 reanalysis: general specifications and basic characteristics. J. Meteor. Soc. Japan, 93, 5-48. http://dx.doi.org/10.2151/jmsj.2015-001.