



# 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	DSJRA5520181216225323-DIAS20180903143952-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

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## 4. DATASET CREATOR

Name	Climate Prediction Division, Global Environment and Marine Department, Japan Meteorological Agency
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## 5. DATE OF THIS DOCUMENT

2018-12-16

## 6. DATE OF DATASET

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publication : 2017-03-13

## 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 latitude bound	48.8008
West longitude bound	107.498
Eastbound longitude	156.151
South latitude bound	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 > 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](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](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](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](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. USE CONSTRAINTS

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## 10.1 Data Policy by 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.

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Disclaimer

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### 10.2.1 Data Integration and Analysis System

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4. Users shall not provide the content of DIAS data sets to third parties
5. In the event of using DIAS data sets in an academic presentation, paper, article, or report, etc., users shall cite in parenthesis the text given as the data citation
6. In the event of using DIAS data sets in an academic presentation, paper, article, or report, etc., users shall submit a copy of the work (an offprint in the case of a paper, or a copy of the lecture summary in the case of an oral or poster presentation) to the DIAS office below

[\*1] Data sets whose commercial usage are allowed under the data policy by data provider will be also allowed to be used commercially as DIAS data sets, after ongoing preparation works have been completed. Please contact the DIAS Office for more details.

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## 10.3 Disclaimer for Project

### 10.3.1 Data Integration and Analysis System

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2. DIAS data and related information are subject to change without any prior notice.
  3. DIAS data sets provided are not supported for any additional processing or analysis.

## 11 ACKNOWLEDGEMENT

### 11.1 Dataset Acknowledgement

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).

### 11.2 Project Acknowledgement

#### 11.2.1 Data Integration and Analysis System

Whenever DIAS dataset is used for any academic presentations, and any publication of scientific results, the author(s) shall specify the following acknowledgement and if the data provider has their own acknowledgement quotation, the author(s) shall use both acknowledgements.

”The DIAS dataset is archived and provided under the framework of the Data Integration and Analysis System (DIAS) funded by Ministry of Education, Culture, Sports, Science and Technology (MEXT).”

## 12. 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>.

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