DIAS The Japanese 55-year Reanalysis (JRA-55)

1. IDENTIFICATION INFORMATION

Name	The Japanese 55-year Reanalysis (JRA-55)
Metadata Identifier	JRA5520181015131402-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

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5. DATE OF THIS DOCUMENT

2018-10-15

6. DATE OF DATASET

publication : 2013-10-01

7. DATASET OVERVIEW

7.1 Abstract

Reanalysis of long-term records of past observations with a state-of-the-art numerical analysis and weather prediction (NWP) system aims at producing a high quality, honogeneous data set for climate variables such as temperature and precipitation.

The Japan Meteorological Agency has conducted the second reanalysis project named the Japanese 55-year Reanalysis (JRA-55) using a more sophisticated NWP system, which is based on the operational system as of December 2009, and newly prepared past observations. The reanalysis period has been extended covering the period from 1958 to 2012. JRA-55 is a data set that aims at reproducing the climate change over the past half century more accurately.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1958-01-01
End Date	Under Continuation

7.4 Geographic Bounding Box

North bound latitude	90
West bound longitude	-180
Eastbound longitude	180
South bound latitude	-90

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	288	1.25 (deg)

column	145	1.25 (deg)
vertical	37	1-50 (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	Aircraft, Balloons/Rockets, Earth Observation Satellites, In Situ Land-based Platforms, In Situ Ocean-based Platforms, Models > , Navigation Platforms	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/

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

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

file download : https://data.diasjp.net/dl/storages/filelist/dataset:204

Quality issues (in English) : http://jra.kishou.go.jp/JRA-55/index_en.html#quality

Quality issues (in Japanese) : http://jra.kishou.go.jp/JRA-55/index_ja.html#quality

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
GRIB	1	

8. DATA PROCESSING

8.1 General Explanation of the data producer's knowledge about the lineage of a dataset

In the report released on 2 October 2018, JMA announced that a part of the Japanese 55-year Reanalysis (JRA-55) product was missing, of which values were set to zero.

Those missing data has been replaced with corrected data. (2018-10-15)

8.2 Data Processing

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

8.1 General Explanation of the data producer's knowledge about the lineage of a dataset

It was recently found that a part of the Japanese 55-year Reanalysis

(JRA-55) product was missing, of which values were set to zero. Those

missing data are as follows. Product : fcst_surf125 (1.25-degree two-dimensional instantaneous diagnostic fields)

Period : from 4 June 2018 onward

Parameters : pressure reduced to MSL, total cloud cover, high cloud cover, medium cloud cover, and low cloud cover

The above mentioned product will be replaced with corrected data shortly,

which will be announced separately on the JRA-55 website. In the meantime,

users are advised to refrain from using those data. (2018-10-02)

8.2 Data Processing

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

9. DATA REMARKS

10. USE CONSTRAINTS

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.

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

(4) Users should provide JMA with a copy of their scientific or technical papers, publications, press releases or other communications regarding the Products.

Disclaimer

Please note that although JMA has paid the closest attention to produce the Products, JMA assumes no responsibility regarding the reliability of the Products. JMA is not responsible to you for any damage that may be caused by the use of the Products on this site.

10.2 Data Policy for Project

10.2.1 Data Integration and Analysis System

The terms of data use of data providers take first priority over the DIAS data usage policy. In the event a data provider has not established terms of use, the following DIAS project data terms of use apply.

1. Users shall prioritize and abide by terms of use stipulated by a data provider in the event such exist

2. The use of DIAS data sets is limited to research and educational purposes [*1]

3. Users shall not modify the content of DIAS data sets

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

1. DIAS data provider is not liable for any losses or any damage when DIAS data sets are used.

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 Japanese 55-year Reanalysis (JRA-55) project carried out by 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

Kobayashi, S., Y. Ota, H. 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. Met. Soc. Japan, 93, 5-48, doi: 10.2151/jmsj.2015-001.