


The Japanese 55-year Reanalysis (JRA-55)

1. IDENTIFICATION INFORMATION

Name	The Japanese 55-year Reanalysis (JRA-55)
Metadata Identifier	JRA5520240221120009-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

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4. DATASET CREATOR

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Organization	Japan Meteorological Agency

5. DATE OF THIS DOCUMENT

2024-02-21

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, homogeneous 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	2024-02-02

7.4 Geographic Bounding Box

North latitude bound	90
West longitude bound	-180
Eastbound longitude	180
South latitude bound	-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 Data Processing (1)

8.1.1 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)

8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used
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8.2 Data Processing (2)

8.2.1 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_surfl25 (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)

8.2.2 Data Source

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

(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 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

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).

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

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.