



# The Japanese 55-year Reanalysis using conventional data only (JRA-55C)

## 1. IDENTIFICATION INFORMATION

Name	The Japanese 55-year Reanalysis using conventional data only (JRA-55C)
Abbreviation	JRA-55C
Metadata Identifier	JRA55_C20221122144437-DIAS20221121113753-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

Name	Numerical Prediction Division, Information Infrastructure Department
Organization	Japan Meteorological Agency
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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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## 3. DOCUMENT AUTHOR

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

## 4. DATASET CREATOR

Name	Climate Research Department
Organization	Meteorological Research Institute

## 5. DATE OF THIS DOCUMENT

2022-11-22

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## 6. DATE OF DATASET

publication : 2014-10-01

## 7. DATASET OVERVIEW

### 7.1 Abstract

As a subset of the Japanese 55-year Reanalysis (JRA-55) project, the Meteorological Research Institute of the Japan Meteorological Agency is conducting a global atmospheric reanalysis that assimilates only conventional surface and upper air observations, with no use of satellite observations, using the same data assimilation system as the JRA-55. The project, named the JRA-55 Conventional (JRA-55C), aims to produce a more homogeneous dataset over a long period, unaffected by changes in historical satellite observing systems. The dataset is intended to be suitable for studies of climate change or multi-decadal variability. The reanalysis period of the JRA-55C is from 1958 to 2012. Note, however, that the data for the period from 1958 to Oct 1972 are exactly the same of JRA-55. We recommend to use together with the JRA-55 data in the period.

(A part of JRA-55C data included an error. We replaced the error data to the corrected data on 23 March 2016. The details are described at "Data Remarks".)

### 7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	1972-11-01
End Date	2012-12-31

### 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)

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## 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 &gt; 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](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](http://jra.kishou.go.jp/JRA-55/index_ja.html#manual)

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:229>

Quality issues (in English) : [http://jra.kishou.go.jp/JRA-55/index\\_en.html#quality](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](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

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## 9. DATA REMARKS

A part of JRA-55C data from Jan 2005 to Aug 2005 included an error. We replaced the error data to the corrected data on 23 March 2016. Please download the data again from DIAS with the updated versions.

The replaced are the following files.

(\${mm}): 01, 02, 03, 04, 05, 06, 07, 08.

\$(hh): 00, 03, 06, 09, 12, 15, 18, 21)

All files under

JRA-55C/Hist/Daily/fcst\_column125/2005\${mm}/

JRA-55C/Hist/Daily/fcst\_phy2m125/2005\${mm}/

JRA-55C/Hist/Daily/fcst\_surf125/2005\${mm}/

All files which begin in "fcst\_p125\_ciwc", "fcst\_p125\_clwc" and "fcst\_p125\_ozone" under

JRA-55C/Hist/Daily/fcst\_p125/2005\${mm}/

All files which are over in "2005\${mm}" or ".idx" under

JRA-55C/Hist/Monthly/fcst\_column125/

JRA-55C/Hist/Monthly/fcst\_phy2m125/

JRA-55C/Hist/Monthly/fcst\_surf125/

All files which begin in "fcst\_p125\_ciwc", "fcst\_p125\_clwc", "fcst\_p125\_ozone" and are over in "2005\${mm}" or ".idx" under

JRA-55C/Hist/Monthly/fcst\_p125/

All files which are over in "2005\${mm}\_\$(hh)" or ".idx" under

JRA-55C/Hist/Monthly\_diurnal/fcst\_column125/

JRA-55C/Hist/Monthly\_diurnal/fcst\_phy2m125/

JRA-55C/Hist/Monthly\_diurnal/fcst\_surf125/

All files which begin in "fcst\_p125\_ciwc", "fcst\_p125\_clwc", "fcst\_p125\_ozone" and are over in "2005\${mm}\_\$(hh)" or ".idx" under

JRA-55C/Hist/Monthly\_diurnal/fcst\_p125/

All files under

JRA-55C/Clim8110/Daily/fcst\_column125/

JRA-55C/Clim8110/Daily/fcst\_phy2m125/

JRA-55C/Clim8110/Daily/fcst\_surf125/

All files which begin in "fcst\_p125\_ciwc", "fcst\_p125\_clwc" and "fcst\_p125\_ozone" under

JRA-55C/Clim8110/Daily/fcst\_p125/

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All files under

JRA-55C/Clim8110/Monthly/fcst\_column125/

JRA-55C/Clim8110/Monthly/fcst\_phy2ml25/

JRA-55C/Clim8110/Monthly/fcst\_surf125/

All files which begin in "fcst\_pl25\_ciwc", "fcst\_pl25\_clwc" and "fcst\_pl25\_ozone" under

JRA-55C/Clim8110/Monthly/fcst\_pl25/

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

- (1) Users should provide user information including name, affiliation, e-mail address.
- (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.

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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

(1) Kobayashi, C., H. Endo, Y. Ota, S. Kobayashi, H. Onoda, Y. Harada, K. Onogi and H. Kamahori, 2014: Preliminary results of the JRA-55C, an atmospheric reanalysis assimilating conventional observations only. , SOLA, 10, 78-82, doi: 10.2151/sola.2014-016.

(2) 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. 93, 5-48, doi: 10.2151/jmsj.2015-001.

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