



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_C20170725125224-DIAS20170725102541-en

2. CONTACT

2.1 CONTACT on DATASET

Name	Climate Prediction Division, Global Environment and Marine Department, Japan Meteorological Agency
Organization	Climate Prediction Division, Global Environment and Marine Department, Japan Meteorological Agency
Address	1-3-4 Otemachi, Chiyoda-ku, Tokyo, 100-8122, Japan
E-mail	jra@met.kishou.go.jp

2.2 CONTACT on PROJECT

2.2.1 Data Integration and Analysis System

Name	DIAS Office
Organization	Remote Sensing Technology Center of Japan
Address	TOKYU REIT Toranomom Building 2F 3-17-1 Toranomom, Minato-ku, Tokyo, 105-0001, Japan
E-mail	dias-office@diasjp.net

3. DOCUMENT AUTHOR

Name	Climate Prediction Division, Global Environment and Marine Department, Japan Meteorological Agency
Organization	Climate Prediction Division, Global Environment and Marine Department, Japan Meteorological Agency
E-mail	jra@met.kishou.go.jp

4. DATASET CREATOR

Name	Climate Research Department, Meteorological Research Institute
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Organization	Climate Research Department, Meteorological Research Institute
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5. DATE OF THIS DOCUMENT

2017-07-25

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(IS019139)

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

		()
		()
		()

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 : <http://dias-dss.tkl.iis.u-tokyo.ac.jp/dl/storages/filelist/dataset:229>

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

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/

All files under

JRA-55C/Clim8110/Monthly/fcst_column125/

JRA-55C/Clim8110/Monthly/fcst_phy2m125/

JRA-55C/Clim8110/Monthly/fcst_surf125/

All files which begin in "fcst_p125_ciwc", "fcst_p125_clwc" and "fcst_p125_ozone" under
JRA-55C/Clim8110/Monthly/fcst_p125/

10. USE CONSTRAINTS

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- (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.

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10.2.1 Data Integration and Analysis System

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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.

[DIAS Office]

E-mail: dias-office@diasjp.net

Remote Sensing Technology Center of Japan

TOKYU REIT Toranomon Building 2F 3-17-1 Toranomon, Minato-ku, Tokyo, 105-0001

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

- (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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