



The Japanese Reanalysis for Three Quarters of a Century

1. IDENTIFICATION INFORMATION

Name	The Japanese Reanalysis for Three Quarters of a Century
Abbreviation	JRA-3Q
DOI	doi:10.20783/DIAS.645 [https://doi.org/10.20783/DIAS.645]
Metadata Identifier	JRA3Q20221208145919-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

Name	DIAS Office
Organization	Japan Agency for Marine-Earth Science and Technology
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4. DATASET CREATOR

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5. DATE OF THIS DOCUMENT

2022-12-08

6. DATE OF DATASET

publication : 2022-12-09

7. DATASET OVERVIEW

7.1 Abstract

The Japan Meteorological Agency is currently conducting the Japanese Reanalysis for Three Quarters of a Century (JRA-3Q), which covers the period from September 1947 onward to extend the current period of data coverage and improve the quality of long-term reanalysis. The project involves a sophisticated data assimilation system (based on the operational set-up as of December 2018) incorporating development results from the operational NWP system and sea surface temperature analysis achieved since the Japanese 55-year Reanalysis (JRA-55, based on the operational set-up as of December 2009). New datasets of past observations are also assimilated, including rescued historical observations and reprocessed satellite data supplied by meteorological and satellite centers worldwide. Many of the deficiencies of JRA-55 are alleviated in JRA-3Q, providing a high-quality homogeneous reanalysis dataset that covers the previous 75 years.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1991-01-01
End Date	2013-04-30

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		40 (km)
column	480	40 (km)
vertical	100	0.02-25 (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 : <https://jra.kishou.go.jp/>

JRA-3Q Data Format (in English) : https://jra.kishou.go.jp/JRA-3Q/index_en.html#FORMAT

JRA-3Q Data Format (in Japanese) : https://jra.kishou.go.jp/JRA-3Q/index_ja.html#FORMAT

Quality issues (in English) : https://jra.kishou.go.jp/JRA-3Q/index_en.html#QUALITY

Quality issues (in Japanese) : https://jra.kishou.go.jp/JRA-3Q/index_ja.html#QUALITY

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:645>

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
GRIB	2	

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

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10.2 Data Policy by the Project

10.2.1 Data Integration and Analysis System

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12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

JRA-3Q data should be acknowledged in scientific and technical reports.

Example

"This report references JRA-3Q reanalysis data from the Japan Meteorological Agency."

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. Kosaka, J. Chiba, T. Tokuhira, Y. Harada, C. Kobayashi, and H. Naoe, 2021: JRA-3Q: Japanese Reanalysis for Three Quarters of a Century. Joint WCRP-WWRP Symposium on Data

Assimilation and Reanalysis/ECMWF Annual Seminar 2021, online, 13-17 September 2021, 04-2, <https://symp-bonn2021.sciencesconf.org/data/355900.pdf>.

Harada, Y., S. Kobayashi, Y. Kosaka, J. Chiba, and T. Tokuhiko, 2021: Early results of the evaluation of the JRA-3Q reanalysis, EGU General Assembly 2021, online, 19-30 April 2021, EGU21-3762, <https://doi.org/10.5194/egusphere-egu21-3762>.

Naoe, H., S. Kobayashi, Y. Kosaka, J. Chiba, T. Tokuhiko, and Y. Harada, 2021: Evaluation of a new Japanese reanalysis (JRA-3Q) in a pre-satellite era, EGU General Assembly 2021, online, 19-30 April 2021, EGU21-6881, <https://doi.org/10.5194/egusphere-egu21-6881>.

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