Long-Term Regional Reanalysis for Japan with Assimilating Conventional Observations

1. IDENTIFICATION INFORMATION

Name	Long-Term Regional Reanalysis for Japan with Assimilating Conventional Observations
Abbreviation	RRJ-Conv
DOI	doi:10.20783/DIAS.646 [https://doi.org/10.20783/DIAS.646]
Metadata Identifier	RRJ_Conv20241128103037-DIAS20221121113753-en

2. CONTACT

2.1 CONTACT on DATASET

Name	RRJ_Conv team
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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

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4. DATASET CREATOR

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Organization	Tohoku Univ.

5. DATE OF THIS DOCUMENT

2024-11-28

6. DATE OF DATASET

creation : 2022-03-18

7. DATASET OVERVIEW

7.1 Abstract

An atmospheric long-term regional reanalysis assimilating conventional observations that covers Japan with horizontal grid spacing of 5 km

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	2001-07-01
End Date	2021-06-30
Temporal Characteristics	Hourly

7.4 Geographic Bounding Box

North bound latitude	48.8
West bound longitude	107.5
Eastbound longitude	156.1
South bound latitude	19.7

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	721	5 (km)
column	577	5 (km)
vertical	17	25-100 (hPa)
time		1, 6 (hour)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Precipitation > Precipitation Amount, Atmosphere > Atmospheric Pressure > Sea Level Pressure, Atmosphere > Atmospheric Temperature > Surface Air Temperature	GCMD_science

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

Application for use (Data download) : https://data.diasjp.net/dl/storages/filelist/dataset:646

About RRJ-Conv : https://wind.gp.tohoku.ac.jp/rrj-conv

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

Users shall not download or use this dataset in whole or in part without express consent from Tohoku University and the JMA Meteorological Research Institute. Users shall accept the terms and conditions specified below and receive authorization.

(1) This dataset is restricted to use for research related to long-term reanalysis methodology, climate variability, global warming, extreme events, weather affected by changing climate, and

applications of long-term reanalysis, etc. Users may not be used for any other purpose (commercial, advertising, sales, etc.).

(2) Users may not distribute this dataset to third parties, except in the case of commissioning research using this data.

(3) Users shall collect the data shared with the third parties for the purpose of commissioning of research, after the commissioning has been completed.

(4) Users shall explicitly state the use of Long-Term Regional Reanalysis for Japan with Assimilating Conventional Observations (RRJ-Conv) produced by Tohoku University and the JMA Meteorological Research Institute in any scientific or technical papers, publications, press releases or other communications relating to the results obtained using this dataset.

(5) Before publishing the results obtained using this dataset, users shall provide the publications for Tohoku University and the JMA Meteorological Research Institute.

(6) Users shall submit a report to Tohoku University and the JMA Meteorological Research Institute that gives an overview of the results obtained using this dataset, within one year of being granted access to this dataset.

(7) Users shall follow other instructions by Tohoku University and the JMA Meteorological Research Institute.

[Disclaimer]

Tohoku University and the JMA Meteorological Research Institute shall not be responsible or liable for any loss and damage caused by the use of the product.

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

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

Fukui, S., E. Shirakawa, D. Soga, R. Ohara, K. Usui, K. Takiguchi, K. Ono, T. Hirose, S. Matsushima, J. Ito, T. Yamazaki, K. Saito, H. Seko, and T. Iwasaki, 2024: Long-term regional reanalysis for Japan with assimilating conventional observations (RRJ-Conv). J. Meteor. Soc. Japan, 102, 677-696,

DOI:10.2151/jmsj.2024-036

Fukui, S., T. Iwasaki, K. Saito, H. Seko, and M. Kunii, 2018: A feasibility study on the high-resolution regional reanalysis over Japan assimilating only conventional observations as an alternative to the dynamical downscaling. J. Meteor. Soc. Japan, 96, 565-585, DOI:10.2151/jmsj.2018-056.