pias 5-km regional climate downscaling for Japanese regoin using JRA-55

1. IDENTIFICATION INFORMATION

Name	5-km regional climate downscaling for Japanese regoin using JRA-55	
DOI	doi:10.20783/DIAS.660 [https://doi.org/10.20783/DIAS.660]	
Metadata Identifier	RCDSJRA5520241204133147-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		
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5. DATE OF THIS DOCUMENT

2024-12-04

6. DATE OF DATASET

creation : 2023-09-30

publication : 2022-08-31

7. DATASET OVERVIEW

7.1 Abstract

This data was dowscaled from JRA-55 using the non-hydrostatic regional climate model and covers whole Japan with a grid spacing of 5 km from September 1958 to August 2022. This data includes not only atmospheric variables but also variables at the land surface, such as snow cover, soil moisture, soil temperature, and so on.

7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1958-09-01
End Date	2022-08-31

7.4 Geographic Bounding Box

North latitude	bound	60
West longitude	bound	110
Eastbound longitude		165
South latitude	bound	15

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	527	5 (km)
column	804	5 (km)
vertical	16	1000, 975, 950, 925, 900, 875, 850, 800, 750, 700, 600, 500, 400, 300, 200, 100 (hPa)
time		1 (hour)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Atmosphere > Precipitation > Rain, Atmosphere > Precipitation > Snow, Atmosphere > Atmospheric Temperature > Air Temperature	GCMD_science

7.7.2 Keywords on Project

7.7.2.1 Data Integration and Analysis System

Keyword Type	rd Type Keyword	
theme	DIAS & amp;gt; Data Integration and Analysis System	No_Dictionary

7.8 Online Resource

JRA-55(Japanese) : https://search.diasjp.net/ja/dataset/JRA55

File download : https://data.diasjp.net/dl/storages/filelist/dataset:660

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
grib2	2	
4 byte binary	none	4 byte binary file with grads control file

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

- Users should not distribute the Products to any third party without Data Provider's prior consent. Use of the Products for any commercial purposes is also prohibited.

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- Disclaimer

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- Acknowledgements

Please describe after the following example.

This study utilized the RCDSJRA-55, which was created by the Ministry of Education, Culture, Sports, Science and Technology (MEXT) Program for the Integrated Research Program for Advancing Climate Models (TOUGOU) and Program for the advanced studies of climate change projection (SENTAN).

- Citation

Please cite Kawase et al. (2023) as the paper describing the dataset.

Kawase et al. 2023, Historical regional climate changes in Japan in winter as assessed by a 5-km regional climate model with a land surface process, Prog Earth Planet Sci 10, https://doi.org/10.1186/s40645-023-00536-4

- Co-authorship

We don't require the our team members as coauthor when the user publishes the result, unless the team members deeply contribute the user's work.

- Notification of data use

None

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

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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

Kawase et al. 2023, Historical regional climate changes in Japan in winter as assessed by a 5-km regional climate model with a land surface process, Prog Earth Planet Sci 10, https://doi.org/10.1186/s40645-023-00536-4