



database for Policy Decision making for Future climate change (P-level data for dynamical downscaling over Japan)

1. IDENTIFICATION INFORMATION

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|---------------------|---|
| Name | database for Policy Decision making for Future climate change (P-level data for dynamical downscaling over Japan) |
| DOI | doi:10.20783/DIAS.560 [https://doi.org/10.20783/DIAS.560] |
| Metadata Identifier | d4PDF_RCM_3D_Plev20230727094257-DIAS20221121113753-en |

2. CONTACT

2.1 CONTACT on DATASET

| | |
|--------------|---|
| Name | d4PDF support team |
| Organization | Social Implementation Program on Climate Change Adaptation Technology |
| E-mail | d4pdf-support@jamstec.go.jp |

2.2 CONTACT on PROJECT

2.2.1 Data Integration and Analysis System

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| 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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| Name | Shiori Sugimoto |
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| Organization | Japan Agency for Marine-Earth Science and Technology |
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| Name | Koji Ishihara |
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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

publication : 2019-09-11

7. DATASET OVERVIEW

7.1 Abstract

We reproduced a P-level three dimensional data with 17 layers under the historical, 2K & 4K warming climate based on the pre-industrial period, using the original of d4PDF 20km resolution data (http://search.diasjp.net/ja/dataset/d4PDF_RCM).

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

| | |
|--------------------------|------------|
| Begin Date | 1950-09-01 |
| End Date | 2011-08-31 |
| Temporal Characteristics | 6hourly |

7.4 Geographic Bounding Box

| | |
|----------------------|-----|
| North latitude bound | 40 |
| West longitude bound | 105 |
| Eastbound longitude | 170 |
| South latitude bound | 15 |

7.5 Grid

| Dimension Name | Dimension Size (slice number of the dimension) | Resolution Unit |
|----------------|--|-------------------------------|
| row | 191 | 20 (km) |
| column | 155 | 20 (km) |
| vertical | 17 | unequally spaced levels (hPa) |

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

| Keyword Type | Keyword | Keyword thesaurus Name |
|--------------|---|------------------------|
| theme | GLOBAL CHANGE > Regional climate change | AGU |

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

Data Download Site of the DIAS (in Japanese) : <http://d4pdf.diasjp.net/d4PDF.cgi?target=RCM&lang=ja>

Data Download Site of the DIAS (in English) : <http://d4pdf.diasjp.net/d4PDF.cgi?target=RCM&lang=en>

d4PDF home page (in Japanese) : <https://www.miroc-gcm.jp/~pub/d4PDF/>

d4PDF home page (in English) : https://www.miroc-gcm.jp/~pub/d4PDF/index_en.html

7.9 Data Environmental Information

7.10 Distribution Information

| name | version | specification |
|--------|---------|---------------|
| netCDF | 4.4.0 | |

8. DATA PROCESSING

8.1 Data Processing (1)

8.1.1 General Explanation of the data producer's knowledge about the lineage of a dataset

P-level three dimensional data is reproduced from the original of d4PDF 20km resolution data and is compressed by Deflating function of netCDF4.

8.1.2 Data Source

| Data Source Citation Name | Description of derived parameters and processing techniques used |
|--|--|
| database for Policy Decision making for Future climate change (dynamical downscaling over Japan) | Please see http://search.diasjp.net/en/dataset/d4PDF_RCM |

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

DATA RELEASE POLICY OF DATABASE FOR POLICY DECISION MAKING FOR FUTURE CLIMATE CHANGE (d4PDF)

The database called d4PDF (database for Policy Decision making for Future climate change) was produced by the joint project of Meteorological Research Institute of Japan Meteorological Agency, Atmosphere and Ocean Research Institute of University of Tokyo, Disaster Prevention Research Institute of Kyoto University, National Institute of Environmental Study, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), and University of Tsukuba, under the support of the Program for Risk Information on Climate Change (SOUSEI, FY2012-2016), the Social Implementation Program on Climate Change Adaptation Technology (SI-CAT, FY2015-2019), Integrated Research Program for Advancing Climate Models (TOUGOU, FY2017-2021), and the Data Integration and Analysis System (DIAS), funded by the Ministry of Education, Culture, Sports, Science and Technology (MEXT).

The Earth Simulator was used for building up the database under "Strategic Project with Special Support" of JAMSTEC. Users can access d4PDF via the data server maintained by DIAS.

Terms and Conditions

1. Individual users must register their name, affiliation, email-address and purpose of use before access to the database will be permitted.
2. Individual users should not redistribute the data to any third party.
3. The source of the database should be duly acknowledged in scientific and technical papers, publications, press releases and other communications in case of using the data.

Example:

This study used the database for policy decision making for future climate change (d4PDF) which was produced with the Earth Simulator under corporations among science programs (SOUSEI, TOUGOU, SI-CAT, DIAS) sponsored by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan.

4. Individual users provide the joint project members (email to d4pdf-support@jamstec.go.jp) a copy of their scientific or technical papers, publications, press releases or other communications in case of using the data (recommended).

Disclaimer

The joint project members are not responsible for any damage that may result from their use.

Intellectual property

The intellectual property rights of the database belong exclusively to the joint project members.

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

This study used d4PDF produced with the Earth Simulator jointly by science programs (SOUSEI, TOUGOU, SI-CAT, DIAS) of the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan.

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