



# 5-km resolution ensemble climate data in Japan

## 1. IDENTIFICATION INFORMATION

Name	5-km resolution ensemble climate data in Japan
DOI	doi:10.20783/DIAS.657 [ <a href="https://doi.org/10.20783/DIAS.657">https://doi.org/10.20783/DIAS.657</a> ]
Metadata Identifier	d4PDF_5kmDDS_JP20240128190245-DIAS20221121113753-en

## 2. CONTACT

### 2.1 CONTACT on DATASET

Name	Hiroaki Kawase
Organization	Meteorological Research Institute, Japan Meteorological Agency
Address	1-1, Nagamine, Tsukuba, Ibaraki, 305-0052, Japan
E-mail	d4pdf_5kmdds_jp@jamstec.go.jp

### 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
Address	3173-25, Showa-Cho, Kanazawa-ku, Yokohama-shi, Kanagawa, 236-0001, Japan
E-mail	dias-office@diasjp.net

## 3. DOCUMENT AUTHOR

Name	Hiroaki Kawase
Organization	Meteorological Research Institute, Japan Meteorological Agency
E-mail	hkawase@mri-jma.go.jp

## 4. DATASET CREATOR

Name	Hiroaki Kawase
Organization	Meteorological Research Institute, Japan Meteorological Agency
E-mail	hkawase@mri-jma.go.jp

---

## 5. DATE OF THIS DOCUMENT

2024-01-28

## 6. DATE OF DATASET

creation : 2023-09-19

## 7. DATASET OVERVIEW

### 7.1 Abstract

Dynamical downscaling ensemble data covering the whole Japan from d4PDF with 5-km nonhydrostatic regional climate model (NHRCM)

### 7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	1950-07-21
End Date	2011-09-06
Temporal Characteristics	Hourly

### 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	550	5 (km)
column	755	5 (km)
vertical	13	1000, 975, 950, 925, 900, 875, 850, 800, 700, 600, 500, 300, 200 (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	Keyword	Keyword thesaurus Name
theme	DIAS &gt; Data Integration and Analysis System	No_Dictionary

## 7.8 Online Resource

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

d4PDF(English) : [https://www.miroc-gcm.jp/~pub/d4PDF/index\\_en.html](https://www.miroc-gcm.jp/~pub/d4PDF/index_en.html)

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:657>

Frequently Asked Questions : <https://data.diasjp.net/dl/storages/file/L2QOUEGXzVrbUREU19KUC9kb2MvZDRQREZfNWttRERTX0pQX0ZBUS5wZGY=>

User's Guide : <https://data.diasjp.net/dl/storages/file/L2QOUEGXzVrbUREU19KUC9kb2MvZDRQREZfNWttRERTX0pQLnBkZg==>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
netCDF	4	

## 8. DATA PROCESSING

## 9. DATA REMARKS

## 10. DATA POLICY

---

## 10.1 Data Policy by the Data Provider

### - Purpose of use

There are no restrictions. The contents are subject to change without any prior notice. We are not liable for any losses or any damage when the dataset is used.

### - Redistribution

Users shall not redistribute the content of the data set to third parties.

### - Disclaimer

Please note that although Data Provider has paid the closest attention to produce the Products, Data Provider is not responsible to you for any damage that may be caused by the use of the Products on this site.

### - Acknowledgements

Please describe after the following example.

This study utilized the 5-km ensemble dynamical downscaling data, which was created by the JAMSTEC Earth Simulator under the Ministry of Education, Culture, Sports, Science and Technology (MEXT) 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, Identifying robust changes of extreme precipitation in Japan from large ensemble 5-km-grid regional experiments for 4K warming scenario. Journal of Geophysical Research, JGR-Atmosphere, <https://doi.org/10.1029/2023JD038513>

### - 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.

## 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 utilized the 5-km ensemble dynamical downscaling data calculated by the JAMSTEC Earth Simulator under the Ministry of Education, Culture, Sports, Science and Technology (MEXT) Program for the advanced studies of climate change projection (SENTAN).

## 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, Identifying robust changes of extreme precipitation in Japan from large ensemble 5-km-grid regional experiments for 4K warming scenario. *Journal of Geophysical Research, JGR-Atmosphere*, <https://doi.org/10.1029/2023JD038513>