



# Japan Meteorological Agency Global Warming Projection Volume 8

## 1. IDENTIFICATION INFORMATION

Name	Japan Meteorological Agency Global Warming Projection Volume 8
Edition	第8巻
Abbreviation	JMA-GWP8
Metadata Identifier	JMA_GWP20230727065806-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

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## 4. DATASET CREATOR

Name	Climate Prediction Division
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Organization	Japan Meteorological Agency
E-mail	clime@met.kishou.go.jp

## 5. DATE OF THIS DOCUMENT

2023-07-27

## 6. DATE OF DATASET

creation : 2013-07-01

## 7. DATASET OVERVIEW

### 7.1 Abstract

Climate change projection for Japan using a non-hydrostatic regional climate model under IPCC A1B emission scenario

### 7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	1980-09-01
End Date	2095-08-31
Temporal Characteristics	10 min or hourly for surface elements, daily for upper elements

### 7.4 Geographic Bounding Box

North latitude bound	48.53269
West longitude bound	120.0588
Eastbound longitude	151.8142
South latitude bound	19.39719

### 7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	211	5 (km)
column	691	5 (km)
vertical	5	1000hPa, 850hPa, 500hPa, 300hPa, 200hPa (level)

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## 7.6 Geographic Description

日本周辺域／ランベルト正角円錐図法により地図上に投影した座標系による

## 7.7 Keywords

### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Climate	GEOSS
theme	GLOBAL CHANGE > Regional climate change	AGU
theme	Atmosphere > Atmospheric Temperature > Air Temperature	GCMD_science
theme	Atmosphere > Precipitation > Precipitation Amount	GCMD_science
theme	Atmosphere > Precipitation > Snow	GCMD_science
theme	Atmosphere > Atmospheric Winds > Upper Level Winds	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

A report on the analysis results of climate change projection over Japan using this dataset : <http://www.data.jma.go.jp/cpdinfo/GWP/index.html>

You can download the detail of data format : [http://www.data.jma.go.jp/cpdinfo/GWP/Vol18/gpv/gpv\\_manual.pdf](http://www.data.jma.go.jp/cpdinfo/GWP/Vol18/gpv/gpv_manual.pdf)

You can download this dataset from DIAS. : <https://data.diasjp.net/dl/storages/filelist/dataset:203>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
2 or 4 Byte packed, FORTRAN unformatted record		

## 8. DATA PROCESSING

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## 8.1 Data Processing (1)

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

This data set contains results from historical and future numerical climate simulations over Japan targeted for the three vicennial periods 1980–1999, 2016–2035, and 2076–2095, with radiative forcing assumed under the IPCC SRES A1B emissions scenario. The simulations were conducted using a convection-permitting non-hydrostatic regional climate model (NHRCM), developed by Meteorological Research Institute, with 5 km horizontal resolution. To feed the lateral boundary conditions into NHRCM, an atmospheric general circulation model with horizontal resolution of 20 km was driven by future sea surface temperatures generated from the averaged anomalies of CMIP3 multi-model projection data superimposed over the observed 20th-century sea surface temperatures.

### 8.1.2 Data Source

Data Source Citation Name	Description of derived parameters and processing techniques used
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## 9. DATA REMARKS

## 10. DATA POLICY

### 10.1 Data Policy by the Data Provider

This data set may not be downloaded or exploited in whole or in part without express consent from Japan Meteorological Agency. Those who seek consent are required to submit a prescribed application form to the contact address. The use of this data set for any commercial, advertising, or marketing purposes is not allowed.

### 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

Japan Meteorological Agency (2013), Global Warming Projection Volume 8

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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