



Integrated Research Program for Advancing Climate Models (TOUGOU Program) CMIP6 simulation data by Global Climate Model MIROC6: AerChemMIP

1. IDENTIFICATION INFORMATION

| | |
|---------------------|--|
| Name | Integrated Research Program for Advancing Climate Models (TOUGOU Program) CMIP6 simulation data by Global Climate Model MIROC6: AerChemMIP |
| Abbreviation | CMIP6. AerChemMIP. MIROC. MIROC6 |
| DOI | doi:10.22033/ESGF/CMIP6.9121 [https://doi.org/10.22033/ESGF/CMIP6.9121] |
| Metadata Identifier | CMIP6_MIROC6_AerChemMIP20230727094813-en |

2. CONTACT

2.1 CONTACT on DATASET

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2.2 CONTACT on PROJECT

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4. DATASET CREATOR

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

revision : 2019-11-14

7. DATASET OVERVIEW

7.1 Abstract

"Integrated Research Program for Advancing Climate Models" ("TOUGOU Program") is a five-year project being implemented by the Ministry of Education, Culture, Sports, Science and Technology ("MEXT") from FY2017 to FY2021 with the primary objective of elucidating the mechanisms of climate change and generating information on climate change projections through the development of climate models that will form the basis for all climate change countermeasures.

The TOUGOU Program consists of four research themes. The objectives of the theme A is to actively participate in the coupled model intercomparison project phase 6 (CMIP6) by using the global climate models developed in the previous programs, and to carry out many original climate model simulations to generate the forecast information necessary for the formulation of near-future adaptation and mitigation measures. Theme B aims to, such as, more precisely estimate CO2 emissions by using the Earth System Model (ESM), a climate model that incorporates biological and chemical processes into the global climate model.

This dataset contains the results of the AerChemMIP by MIROC6, among the various simulations for CMIP6 that have been carried out in this TOUGOU Program using the global climate models and the Earth system models developed in Japan.

This work was supported by the Integrated Research Program for Advancing Climate Models (TOUGOU) Grant Number JPMXD0717935457 from the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan.

All CMIP6 data are collected, managed and published by the Earth System Grid Federation (ESGF), and DIAS serves as one node of the ESGF. All public datasets, including this dataset, are available from ESGF. Please refer to the CMIP6 Guidance for Data Users (see online info below) for information on the use of these datasets, including this dataset.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

| | |
|------------|------------|
| Begin Date | 1850-01-01 |
| End Date | 2101-01-01 |

7.4 Geographic Bounding Box

| | |
|----------------------|------|
| North latitude bound | 90 |
| West longitude bound | -180 |
| Eastbound longitude | 180 |

| | | |
|----------------|-------|-----|
| South latitude | bound | -90 |
|----------------|-------|-----|

7.5 Grid

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

| Keyword Type | Keyword | Keyword thesaurus Name |
|--------------|---------|------------------------|
| theme | Climate | GEOSS |

7.7.2 Keywords on Project

7.8 Online Resource

DOI landing page, Citation information : <https://doi.org/10.22033/ESGF/CMIP6.9121>

TOUGOU Program Web site : <http://www.jamstec.go.jp/tougou/program/index.html>

CMIP6 Project Web site : <https://pcmdi.llnl.gov/CMIP6>

CMIP6 Terms of Use : <https://pcmdi.llnl.gov/CMIP6/TermsOfUse>

CMIP6 Guidance for Data Users : <https://pcmdi.llnl.gov/CMIP6/Guide/dataUsers.html>

MIP Description : <https://search.es-doc.org/>

Model Information : <https://explore.es-doc.org/cmip6/models/miroc/miroc6>

ESGF, Search Variables (in DKRZ) : <http://esgf-data.dkrz.de/search/cmip6-dkrz>

ESGF, Search Variables (in LLNL) : <http://esgf-node.llnl.gov/search/cmip6>

Errata Information : <https://errata.es-doc.org/>

7.9 Data Environmental Information

7.10 Distribution Information

| name | version | specification |
|--------|---------|---------------|
| netCDF | classic | CF Convention |

8. DATA PROCESSING

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

This dataset is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License (CC BY-SA 4.0).

See "CMIP6 Guidance for Data Users" for the detailed information.

<https://pcmdi.llnl.gov/CMIP6/Guide/dataUsers.html>

10.2 Data Policy by the Project

11. LICENSE

12. DATA SOURCE ACKNOWLEDGEMENT

12.1 Acknowledge the Data Provider

Cite this dataset as:

Takemura, Toshihiko (2019). MIROC MIROC6 model output prepared for CMIP6 AerChemMIP. Version YYYYMMDD[1]. Earth System Grid Federation. <https://doi.org/10.22033/ESGF/CMIP6.9121>

[1] Please use the latest dataset version or if not available the latest data download date as version in your data citation.

For acknowledgement, see CMIP6 Terms of Use.

12.2 Acknowledge the Project

13. REFERENCES

Tatebe, H., Ogura, T., Nitta, T., Komuro, Y., Ogochi, K., Takemura, T., Sudo, K., Sekiguchi, M., Abe, M., Saito, F., Chikira, M., Watanabe, S., Mori, M., Hirota, N., Kawatani, Y., Mochizuki, T., Yoshimura, K., Takata, K., O'ishi, R., Yamazaki, D., Suzuki, T., Kurogi, M., Kataoka, T., Watanabe, M., and Kimoto, M.: Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6, *Geosci. Model Dev.*, 12, 2727–2765, <https://doi.org/10.5194/gmd-12-2727-2019>, 2019.