


NAR02017 Regional Climate Projection Dataset

1. IDENTIFICATION INFORMATION

| | |
|---------------------|---|
| Name | NAR02017 Regional Climate Projection Dataset |
| Edition | Version 2.7r |
| Abbreviation | NAR02017-V2.7r |
| DOI | doi:10.20783/DIAS.568 [https://doi.org/10.20783/DIAS.568] |
| Metadata Identifier | SICAT_SDS_1kmJP_NAR02017_V2_7r20230727094736-DIAS20221121113753-en |

2. CONTACT

2.1 CONTACT on DATASET

| | |
|--------------|--|
| Name | NISHIMORI, Motoki |
| Organization | NIAES/NARO |
| Address | 3-1-3, Kan'nondai, Tsukuba, Ibaraki, 305-8604, Japan |
| TEL | +81-29-838-8236 |
| E-mail | mnishi@affrc.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 | NISHIMORI, Motoki |
| Organization | NIAES/NARO |
| E-mail | mnishi@affrc.go.jp |

4. DATASET CREATOR

| | |
|--------------|-------------------|
| Name | NISHIMORI, Motoki |
| Organization | NIAES/NARO |

| | |
|--------|--------------------|
| E-mail | mnishi@affrc.go.jp |
|--------|--------------------|

5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2019-09-30

7. DATASET OVERVIEW

7.1 Abstract

The NAR02017 regional climate change scenario has agro-meteorological elements such as solar radiation, relative humidity, and surface wind speed, which are few examples in common climate scenarios across fields so far.

The variance of climate model output with small daily and annual fluctuations is matched by observational statistics. It is a climate scenario that can certainly apply with climate extremes.

*Attention!: Please understand that after you have applied for use on DIAS, you may receive an additional application from the National Agriculture and Food Research Organization (NARO).

7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

| | |
|--------------------------|------------|
| Begin Date | 1970-01-01 |
| End Date | 2100-12-31 |
| Temporal Characteristics | Daily |

7.4 Geographic Bounding Box

| | | |
|---------------------|-------|-----|
| North latitude | bound | 46 |
| West longitude | bound | 122 |
| Eastbound longitude | | 146 |
| South latitude | bound | 22 |

7.5 Grid

| Dimension Name | Dimension Size (slice number of the dimension) | Resolution Unit |
|----------------|--|-----------------|
| | | |

| | | |
|--------|------|-------------------|
| row | 1920 | 0.0125 (deg) |
| column | 2640 | 0.008333333 (deg) |
| time | | 1-day (day) |

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

File download : <https://data.diasjp.net/dl/storages/filelist/dataset:568>

7.9 Data Environmental Information

Please use this version2_7r dataset for climate impact assessment hereafter. The Version2_2 with the same name is an older version developed in 2017 and it tends to further overestimate higher temperatures.

7.10 Distribution Information

| name | version | specification |
|--------|-----------|---------------|
| NetCDF | Version 4 | CF1.6 |

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

The variance of climate model output, which fluctuates daily and year by year, is in line with the observation statistics.

8.1.2 Data Source

| Data Source Citation Name | Description of derived parameters and processing techniques used |
|---------------------------|--|
| CMIP5 | IPCC_WGI-AR5 |

9. DATA REMARKS

10. DATA POLICY

10.1 Data Policy by the Data Provider

This data set is available only for non-commercial use.

*Attention!: Please understand that after you have applied for use on DIAS, you may receive an additional application from the National Agriculture and Food Research Organization (NARO).

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

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

Nishimori, M., Y. Ishigooka, T. Kuwagata, T. Takimoto and N. Endo (2019): SI-CAT 1km-grid square Regional Climate Projection Scenario Dataset for Agricultural Use (NAR02017). *Journal of The Japan Society for Simulation Technology*, 38, 150-154 (in Japanese with English title).