



Statistical DownScaling Data for Hokkaido

1. IDENTIFICATION INFORMATION

Name	Statistical DownScaling Data for Hokkaido
Edition	1.0
Abbreviation	SDS Data for Hokkaido
DOI	doi:10.20783/DIAS.566 [https://doi.org/10.20783/DIAS.566]
Metadata Identifier	HOKKAIDO_1kmSDS_SICAT20230727094617-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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3. DOCUMENT AUTHOR

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4. DATASET CREATOR

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5. DATE OF THIS DOCUMENT

2023-07-27

6. DATE OF DATASET

creation : 2020-03-20

7. DATASET OVERVIEW

7.1 Abstract

This dataset provides statistically downscaled data, which is high-resolution hydrological information, that will allow cold, snowy regions Hokkaido, which could be significantly affected by climate change, to investigate measures for adapting to climate change. MRI-NHRCM20, a climate model with 20-km spatial resolution, was used for the climate change forecast data.

7.2 Topic Category(ISO19139)

climatologyMeteorologyAtmosphere

7.3 Temporal Extent

Begin Date	1984-09-01
End Date	2100-08-31
Temporal Characteristics	Daily

7.4 Geographic Bounding Box

North latitude bound	45.529167
West longitude bound	139.331250
Eastbound longitude	146.918750
South latitude bound	41.337500

7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
row	505	0.5 (minute)
column	574	0.75 (minute)

7.6 Geographic Description

7.7 Keywords

7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Japan, Hokkaido, Statistical DownScaling, daily	others

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

Social Implementation Program on Climate Change Adaptation Technology (SI-CAT) : <https://si-cat.jp/>

file download : <https://data.diasjp.net/dl/storages/filelist/dataset:566>

7.9 Data Environmental Information

7.10 Distribution Information

name	version	specification
4byte little endian	n/a	

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

MRI-NHRCM20 was used for climate change prediction data. DSJRA-55, JMA mesh average, and JMA analytical rainfall were used for bias correction.

Please refer to Ueda et al. (2019) for more information.

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

- 1.This dataset is available to all academic institutions and researchers. No commercial use of the data is allowed.
- 2.This dataset shall not be redistributed as a whole or in part to the general public through the Internet or other means.
- 3.If you want to release secondary products using this dataset on your website or through other means, you must contact us for permission.
- 4.Papers or written scientific works of any form based in whole or in part on this dataset shall contain an acknowledgement.
5. In no event will we be liable for any loss or damage resulting from the use of this dataset.

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

Ueda Seiya, Nakatsugawa Makoto, Chida Yuma, Komatsu Asami (2019): Production of Downscaled Data for Hokkaido which basin water balance has been verified, Journal of Japan Society of Civil Engineers, Ser. B1 (Hydraulic Engineering), vol.75, No.2, pp.I_1051-I_1056.