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# Extreme temperature and precipitation indices

## 1. IDENTIFICATION INFORMATION

Name	Extreme temperature and precipitation indices
DOI	doi:10.20783/DIAS.525 [ <a href="http://dx.doi.org/10.20783/DIAS.525">http://dx.doi.org/10.20783/DIAS.525</a> ]
Metadata Identifier	extreme_indices20200901183130-DIAS20200901154929-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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Name	Toshichika Iizumi
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## 5. DATE OF THIS DOCUMENT

2020-09-01

## 6. DATE OF DATASET

creation : 2017-08-08

## 7. DATASET OVERVIEW

### 7.1 Abstract

The climate\_indices dataset offers 15 temperature and 12 precipitation extreme indices calculated using S14FD retrospective meteorological forcing dataset and CMIP5\_CFDMD\_S14FD bias-corrected CMIP5 GCM outputs from 1958 to 2100.

### 7.2 Topic Category(IS019139)

climatologyMeteorologyAtmosphere

### 7.3 Temporal Extent

Begin Date	1958-01-01
End Date	2100-12-31
Temporal Characteristics	annual. (monthly data are available for some indices)

### 7.4 Geographic Bounding Box

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

### 7.5 Grid

Dimension Name	Dimension Size (slice number of the dimension)	Resolution Unit
column	720	0.5 (deg)
row	360	0.5 (deg)

vertical	1	1 (level)
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## 7.6 Geographic Description

## 7.7 Keywords

### 7.7.1 Keywords on Dataset

Keyword Type	Keyword	Keyword thesaurus Name
theme	Climate Indicators > Terrestrial Hydrosphere Indicators	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 > Data Integration and Analysis System	No_Dictionary

## 7.8 Online Resource

File download from DIAS : <https://data.diasjp.net/dl/storages/filelist/dataset:525>

## 7.9 Data Environmental Information

## 7.10 Distribution Information

name	version	specification
NetCDF	4	

# 8. DATA PROCESSING

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

The 15 temperature indices and 12 precipitation indices are calculated using S14FD retrospective meteorological forcing dataset and CMIP5\_CDFM\_S14FD bias-corrected CMIP5 GCM outputs.

## 8.2 Data Processing

Data Source Citation Name	Description of derived parameters and processing techniques used

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## 9. DATA REMARKS

## 10. LICENSE

### 10.1 Data Policy by the Data Provider

The reference (Iizumi et al., 2017) should be cited when the dataset is used.

### 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/policy/>) and DIAS Privacy Policy (<https://diasjp.net/en/privacypolicy/>) apply.

If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

## 11. DATA SOURCE ACKNOWLEDGEMENT

### 11.1 Acknowledge the Data Provider

Please consider citing the following DOI when this dataset was used.

doi:10.20783/DIAS.525

### 11.2 Acknowledge the Project

#### 11.2.1 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.

"We used the [name of dataset] provided by [name of data provider] in this study. This dataset was collected and provided under the Data Integration and Analysis System (DIAS, Project No. JPMXD0716808999), which has been developed and operated by the Ministry of Education, Culture, Sports, Science and Technology (MEXT)."

## 12. DISCLAIMER

### 12.1 Disclaimer of Project

#### 12.1.1 Data Integration and Analysis System

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If there is a conflict between DIAS Terms of Service and data provider's policy, the data provider's policy shall prevail.

## 13. REFERENCES

Iizumi, T., H. Takikawa, Y. Hirabayashi, N. Hanasaki, and M. Nishimori, 2017: Contributions of different bias-correction methods and reference meteorological forcing data sets to uncertainty in projected temperature and precipitation extremes. *Journal of Geophysical Research-Atmospheres*, doi: 10.1002/2017JD026613.

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