A Big Earth Data Platform for Three Poles

**NEX-GDDP dataset over Qinghai-Tibet Plateau (2000–2009, 2090–2099)**

1、Description

This dataset includes daily minimum temperature (Tmin), maximum temperature (Tmax) and precipitation (PPT) data of NEX-GDDP (NASA Earth Exchange Global Daily Downscaled Projections) (v1.0) over the periods of 2000–2009 and 2090–2099. The unit of Tmax and Tmin is K, and the unit of PPT is kgm-2s-1; the background filling value is -999. This dataset is a subset extraction fromthe original data. The original data was downloaded from https://portal.nccs.nasa.gov/datashare/NEXGDDP/BCSD/ in August 2020; The NEX-GDDP data set is obtained from CMIP5 (Coupled Model Intercomparison Project Phase 5) historical climate and General Circulation Models (General Circulation Models) operating in RCP (Representative Concentration Pathways) 4.5 scenario mode, including 21 atmospheric circulation models; among them, 2000 –2005 is a historical climate scenario, and 2006–2009 and 2090-2099 are RCP 4.5 scenarios. For the description of the original data, please refer to https://www.nccs.nasa.gov/services/data-collections/land-based-products/nex-gddp.

2、Keywords

Theme：Precipitation,Temperature
Discipline：Atmosphere
Places：Qinghai Tibet Plateau
Time：2090-2099, 2000-2009

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：23336.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：41.0 | - |
| west：73.0 | - | east：106.0 |
| - | south：24.5 | - |

5、Time frame:None--None

6、Reference method

References to data:

Shen Miaogen, JIANG Nan. NEX-GDDP dataset over Qinghai-Tibet Plateau (2000–2009, 2090–2099). A Big Earth Data Platform for Three Poles, doi:10.11888/Meteoro.tpdc.2715262021

References to articles:

Thrasher, B., Maurer, E. P., McKellar, C., & Duffy, P. B. (2012). Technical Note: Bias correcting climate model simulated daily temperature extremes with quantile mapping. Hydrology and Earth System Sciences, 16(9), 3309–3314. https://doi.org/10.5194/hess-16-3309-2012

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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