A Big Earth Data Platform for Three Poles

**Daily precipitation data with 10km resolution in the upper Brahmaputra (Yarlung Zangbo River) Basin (1961-2016)**

1、Description

Daily precipitation data was reconstructed for streamflow simulation in the entire UB by combining orographic and linear correction approaches based on 262 gauge observations. The reconstructed precipitation is used to drive the VIC hydrological model linked with a temperature-index model (VIC-Glacier) , and is inversely evaluated by comparing with observed discharge, glacier area changes, and MODIS-based snow cover faction (SCF) data in the upper Brahmaputra Basin.

2、Keywords

Theme：Precipitation,Hydrology  
Discipline：Terrestrial Surface  
Places：, upper Brahmaputra  
Time：1961-2016

3、Data details

1.Scale：None

2.Projection：

3.Filesize：257.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.2081 | - |
| west：82.0408 | - | east：97.0399 |
| - | south：28.0416 | - |

5、Time frame:1961-08-06 08:00:00+00:00--2017-08-05 08:00:00+00:00

6、Reference method

References to data:

SUN He, SU Fengge. Daily precipitation data with 10km resolution in the upper Brahmaputra (Yarlung Zangbo River) Basin (1961-2016). A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2709172020

References to articles:

Sun, H., Su, F. (2020). Precipitation correction and reconstruction for streamflow simulation based on 262 rain gauges in the upper Brahmaputra of southern Tibetan Plateau. Journal of Hydrology. 590. DOI:10.1016/j.jhydrol.2020.125484

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program  
Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

name: SU Fengge  
unit: Institute of Tibetan Plateau Research, CAS  
email: fgsu@itpcas.ac.cn  
  
name: SUN He  
unit:   
email: sunhe@itpcas.ac.cn