A Big Earth Data Platform for Three Poles

**Modeling Ecohydrological Processes and Spatial Patterns in the Upper Heihe Basin (1980-2010) V1.0**

1、Description

The output data of the distributed eco-hydrological model (GBEHM) of the upper reaches of the black river include the spatial distribution data series of 1-km grid.
Region: upper reaches of heihe river (yingxiaoxia), time resolution: month scale, spatial resolution: 1km, time period: 1980-2010.
The data included precipitation, evapotranspiration, runoff depth, and soil volumetric water content (0-100cm).
All data is in ASCII format. See basan.asc file in the reference directory for the basin space range.
The projection parameter of the model result is Sphere\_ARC\_INFO\_Lambert\_Azimuthal\_Equal\_Area.

2、Keywords

Theme：Soil,Precipitation,Evapotranspiration,Surface Water,Hydrology,Soil moisture/Water content,Runoff
Discipline：Terrestrial Surface
Places：Heihe River Basin, Upper Reaches of Heihe Basin
Time：1980-2010

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：47.0MB

4.Data format：ASCII

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：98.0 | - | east：102.0 |
| - | south：37.0 | - |

5、Time frame:1980-01-12 00:00:00+00:00--2011-01-11 00:00:00+00:00

6、Reference method

References to data:

Modeling Ecohydrological Processes and Spatial Patterns in the Upper Heihe Basin (1980-2010) V1.0. A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.129.2014.db2016

References to articles:

Gao, B., Yang, D., Qin, Y., Wang, Y., Li, H., Zhang, Y., & Zhang, T. (2018). Change in Frozen grounds and Its Effect on Regional Hydrology in the Upper Heihe Basin, on the Northeastern Qinghai-Tibetan Plateau. The Cryosphere. 12(2), 657-673.

Gao, B., Qin, Y., Wang, Y., Yang, D., Zheng Y. (2016). Modeling Ecohydrological Processes and Spatial Patterns in the Upper Heihe Basin in China. Forests, 7(1), DOI:10.3390/f7010010

7、Supporting project information

8、Data resource provider