A Big Earth Data Platform for Three Poles

**Modeling ecohydrological processes and spatial patterns in the upstream of the Heihe River Basin V1.0 (2001-2012)**

1、Description

The output data of the distributed eco hydrological model in the upper reaches of Heihe River includes the spatial distribution data of 1-km grid and the discharge time series data of the outlet of the basin. (1) Spatial distribution data of 1-km grid, monthly average soil moisture, actual evapotranspiration, runoff depth and other spatial distribution data of 1-km resolution. (2) Runoff time series daily flow data of river basin outlet.

2、Keywords

Theme：Soil,Runoff,Precipitation,Evapotranspiration,Hydrology,Soil moisture/Water content  
Discipline：Terrestrial Surface  
Places：Heihe River Basin, Upper Reaches of Heihe Basin  
Time：2001-2012

3、Data details

1.Scale：100000

2.Projection：4326

3.Filesize：20.0MB

4.Data format：网格

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.5 | - |
| west：98.0 | - | east：101.5 |
| - | south：37.5 | - |

5、Time frame:2001-01-14 18:37:00+00:00--2013-01-13 18:37:00+00:00

6、Reference method

References to data:

Modeling ecohydrological processes and spatial patterns in the upstream of the Heihe River Basin V1.0 (2001-2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.0042.2014.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.  
  
Yang, D., Gao, B., Jiao, Y., Lei, H., Zhang, Y., Yang, H., Cong, Z. (2015). A distributed scheme developed for eco-hydrological modeling in the upper Heihe River. Science China Earth Sciences, 58(1), 36-45.

7、Supporting project information

8、Data resource provider