A Big Earth Data Platform for Three Poles

**Modeling results of groundwater table in the middle and lower Heihe River Basin at the north of Qilian Mountains (2001-2015)**

1、Description

The dataset of groundwater table in the middle and lower Heihe River Basin at the north of Qilian Mountains (2001-2015) is stimulated by the Hydrological-Ecological Integrated watershed Flow Model (HEIFLOW). HEIFLOW is a three-dimensional distributed eco-hydrological coupling model, integrating the Precipitation-Runoff Modeling System (PRMS) with the Modular Groundwater Flow Model (MODFLOW) and several ecological modules, which can completely describe the hydrological cycle and vegetation ecological process of the basin. For the modeling details of generating this data, please refer to Han et al. (2021), and for the technical details of HEIFLOW model, please refer to Han et al. (2021), Tian et al. (2018), and sun et al. (2018)

2、Keywords

Theme：Ground Water  
Discipline：Terrestrial Surface  
Places：Heihe River Basin  
Time：2001-2015

3、Data details

1.Scale：None

2.Projection：

3.Filesize：152.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.91 | - |
| west：97.65 | - | east：102.32 |
| - | south：37.96 | - |

5、Time frame:2000-12-31 16:00:00+00:00--2015-12-30 16:00:00+00:00

6、Reference method

References to data:

ZHENG Yi , HAN Feng , TIAN Yong . Modeling results of groundwater table in the middle and lower Heihe River Basin at the north of Qilian Mountains (2001-2015). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2719862021

References to articles:

Han, F., Zheng, Y., & Tian, Y., et al. (2021). Accounting for field-scale heterogeneity in the ecohydrological modeling of large arid river basins: Strategies and relevance. Journal of Hydrology, 595, 126045.

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

name: TIAN Yong   
unit: Southern University of Science and Technology  
email: tiany@sustech.edu.cn  
  
name: HAN Feng   
unit: Southern University of Science and Technology  
email: hanf@sustech.edu.cn  
  
name: ZHENG Yi   
unit: Southern University of Science and Technology  
email: zhengy@sustech.edu.cn