A Big Earth Data Platform for Three Poles

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

1、Description

The dataset of leaf area index 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：Earth SurFace Processes,Land Surface Parameter
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 leaf area index 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.2719872021

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

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