A Big Earth Data Platform for Three Poles

**Data set of water balance elements in the source of the Yellow River and Qilian Mountains**

1、Description

This data set is a multi-scale data set of water balance elements in the source area of the Yellow River and the Heihe River Basin of Qilian Mountains, which can provide basis and reference for water resources management and water balance analysis. The data are based on the simulation results of SWAT model, and then analyzed and counted by ArcGIS and Excel software. The water balance elements include precipitation, snowfall, evapotranspiration, groundwater, soil water and runoff. The time scale includes annual scale and monthly scale, while the spatial scale includes watershed scale, river reach scale, sub basin scale, altitude zone scale and vegetation type scale. The data has been applied to water resources evaluation, benefit evaluation and operation guidance of artificial precipitation enhancement.

2、Keywords

Theme：Runoff,Surface Water,Hydrology,Water yield  
Discipline：Terrestrial Surface  
Places：Upper reaches of Heihe River, Source Region of the Yellow River  
Time：1990-2016

3、Data details

1.Scale：None

2.Projection：

3.Filesize：106.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.5 | - |
| west：98.3 | - | east：103.5 |
| - | south：32.0 | - |

5、Time frame:1989-12-31 16:00:00+00:00--2016-12-30 16:00:00+00:00

6、Reference method

References to data:

ZOU Songbing. Data set of water balance elements in the source of the Yellow River and Qilian Mountains. A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2707342020

References to articles:

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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