A Big Earth Data Platform for Three Poles

**Dataset of parameterization scheme of distributed eco-hydrological model**

1、Description

This data set is a database for the application of SWAT Model in the upper reaches of Heihe River and the source area of the Yellow River, mainly including soil and vegetation, and DEM. There are many parameters involved in soil and vegetation, including conventional soil physical and chemical parameters, vegetation parameters and biomass parameters. The determination method of parameter value includes sampling measurement, literature and other related databases, as well as calculation through related software. As the soil and vegetation database of SWAT model involves comprehensive parameters, most of them can also be used as reference for other ecological and hydrological models driving data besides SWAT model.

2、Keywords

Theme：Harmonized world soil database,Soil,Runoff,Evapotranspiration,Vegetation,Grassland,vegetation species/Classification,Hydrologic characteristic value,Forests,Hydrology,Soil hydraulic parameters,Soil classification
Discipline：Terrestrial Surface
Places：Upper reaches of Heihe River, Source Region of the Yellow River
Time：2005

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：72.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.0 | - |
| west：97.0 | - | east：104.0 |
| - | south：32.0 | - |

5、Time frame:2006-01-09 00:00:00+00:00--2006-01-09 00:00:00+00:00

6、Reference method

References to data:

ZOU Songbing. Dataset of parameterization scheme of distributed eco-hydrological model. A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2704092020

References to articles:

Zhixiang Lu, Songbing Zou, Honglang Xiao, Chunmiao Zheng, Zhenliang Yin, Weihua Wang, 2015. Comprehensive hydrologic calibration of SWAT and water balance analysis in mountainous watersheds in Northwest China. Physics and Chemistry of the Earth, (79-82):76-85.

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: ZOU Songbing
unit: Northwest Institute of Eco-Environment and Resources, CAS
email: zousongbing@lzb.ac.cn