A Big Earth Data Platform for Three Poles

**Deuterium and Oxygen-18 of precipitation, river and soil water in Hulugou small watershed (June 2012 – June 2013)**

1、Description

1、 Data Description:
from June 2012 to June 2013, the rainfall, river water and soil water in the basin were sampled and analyzed.
2、 Sampling location:
rainfall sampling point is located in Qilian station of Chinese Academy of Sciences, with longitude and latitude of 99 ° 52 ′ 39.4 ″ e, 38 ° 15 ′ 47 ″ n;
river water sampling point is located at the outlet of hulugou watershed, with longitude and latitude of 99 ° 52 ′ 47.7 ″ e, 38 ° 16 ′ 11 ″ n, with sampling frequency of once a week;
soil water sampling point is located in the middle and lower part of hongnigou catchment, with sampling depth of 180cm underground and longitude and latitude of 99 ° 52 ′ 25.98 ″ E, 38 ° 15 ′ 36.11 ″ n, only one sample is taken.
3、 Test method:
thermofisher TM flash 2000 and mat 253 gas stable isotope ratio mass spectrometer were used to measure the samples in 2012; l2130-i ultra-high precision liquid water and water vapor isotope analyzer was used to measure the samples in 2013.

2、Keywords

Theme：Precipitation,Surface Water,Stable hydrogen and oxygen isotope,River water,Hydrology,Water Quality/Water Chemistry
Discipline：Terrestrial Surface
Places：Upper Reaches of Heihe Basin, Hulugou
Time：2012, 2013

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.02MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.26306 | - |
| west：99.87388 | - | east：99.87992 |
| - | south：38.3826972 | - |

5、Time frame:2012-06-11 07:00:00+00:00--2013-07-10 07:00:00+00:00

6、Reference method

References to data:

SUN Ziyong. Deuterium and Oxygen-18 of precipitation, river and soil water in Hulugou small watershed (June 2012 – June 2013). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.004.2015.db2015

References to articles:

7、Supporting project information

Exploring snowmelt runoff processes using isotopic and hydrochemical data in Heihe River headwater catchments

8、Data resource provider

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