A Big Earth Data Platform for Three Poles

**The plant sap flow dataset in the lower of Heihe River Basin (2012-2013)**

1、Description

Trunk sap flow is an effective tool for measuring transpiration of a single plant. In this project, the trunk sap flow data of Populus euphratica in the lower reaches of Heihe River was measured by HRM (ICT, Australia) with a frequency of 0.5h. In the growth season of 2012-2013, the installation location is the north and lateral roots (50cm underground depth, 30cm away from the trunk) at the DBH (1.3m).

2、Keywords

Theme：Vegetation,Evapotranspiration,Thermal dissipation sap flow velocity probe（TDP）
Discipline：Terrestrial Surface
Places：Ejin, The Lower Reaches of Heihe River Basin
Time：2012-2013

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：1.4MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.0 | - |
| west：99.0 | - | east：101.0 |
| - | south：40.0 | - |

5、Time frame:2012-01-12 04:01:00+00:00--2014-01-11 04:01:00+00:00

6、Reference method

References to data:

The plant sap flow dataset in the lower of Heihe River Basin (2012-2013). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.014.2014.db2014

References to articles:

Yu, T.F., Feng, Q., Si, J.H., Xi, H.Y., Li, Z.X., & Chen, A.F. (2013). Hydraulic redistribution of soil water by roots of two desert riparian phreatophytes in northwest China's extremely arid region. Plant and soil, 372(1-2): 297-308.

7、Supporting project information

8、Data resource provider