A Big Earth Data Platform for Three Poles

**The lysimeter dataset in the lower of Heihe River (2012)**

1、Description

Lysimeter is the most effective tool for measuring water consumption per plant, which can provide daily, monthly and seasonal changes of transpiration water consumption per plant. In this project, a lysimeter measurement system for Populus euphratica seedlings is established in the lower reaches of Heihe River, with the observation frequency of 0.5h, mainly including water content changes, infiltration, evapotranspiration, etc.

2、Keywords

Theme：Vegetation,Blade water content,Evapotranspiration  
Discipline：Terrestrial Surface  
Places：Ejin, The Lower Reaches of Heihe River Basin  
Time：2012

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：1.2MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.03335278 | - |
| west：101.0498361 | - | east：101.0498361 |
| - | south：42.03335278 | - |

5、Time frame:2012-05-19 04:01:00+00:00--2012-10-11 04:01:00+00:00

6、Reference method

References to data:

The lysimeter dataset in the lower of Heihe River (2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.013.2014.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