A Big Earth Data Platform for Three Poles

**Data of SPAC system in the lower reaches of Heihe River (2012-2013)**

1、Description

SPAC system is a comprehensive platform for observation of plant transpiration water consumption and environmental factors. In this project, a set of SPAC system is set up in the Alxa Desert eco hydrological experimental study. The main observation data include temperature, relative humidity, precipitation, photosynthetic effective radiation, etc. the sampling frequency is one hour. This data provides basic data support for the study of plant transpiration water environmental response mechanism.

2、Keywords

Theme：Photosynthetically active radiation,Precipitation,Temperature,Vegetation,Evapotranspiration,Humidity/Dryness  
Discipline：Atmosphere,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：1.1MB

4.Data format：EXCEL

4、Space scope

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

5、Time frame:2012-06-10 04:01:00+00:00--2013-11-02 04:01:00+00:00

6、Reference method

References to data:

Data of SPAC system in the lower reaches of Heihe River (2012-2013). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.020.2014.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