A Big Earth Data Platform for Three Poles

**Moisture absorption and utilization dataset of desert plants in Heihe River Basin (2014-2015)**

1、Description

The data set of atmospheric water vapor absorption and utilization of desert plants, all of which are original data, including the liquid flow and environmental data of wild desert plants (Sitan village and Ejina Banner, Jingtai County), such as Tamarix, Bawang, Baici, Hongsha, etc., including the data of meteorology, photosynthesis, fluorescence and leaf surface humidity, as well as the data of gene transcriptome and expression regulation.

2、Keywords

Theme：Water consumption,Vegetation,Desert plants,Thermal dissipation sap flow velocity probe（TDP）
Discipline：Terrestrial Surface
Places：Heihe River Basin, Inner Mongolia, Gansu Province
Time：2014-2015

3、Data details

1.Scale：1

2.Projection：4326

3.Filesize：56.0MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.0 | - |
| west：101.0 | - | east：104.0 |
| - | south：37.0 | - |

5、Time frame:2014-05-07 16:00:00+00:00--2015-10-06 16:00:00+00:00

6、Reference method

References to data:

XIAO Honglang. Moisture absorption and utilization dataset of desert plants in Heihe River Basin (2014-2015). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.311.2015.db2015

References to articles:

Li Shuang, Xiao honglang, Cheng Yiben,等. Water use measurement by non-irrigated Tamarix ramosissima in arid regions of Northwest China. Sciences in Cold and Arid Regions, 2015,7(2):0146-0156.

7、Supporting project information

8、Data resource provider

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