A Big Earth Data Platform for Three Poles

**Experimental observation data of water consumption and law of water consumption of different life type desert plants in Heihe River basin (2014)**

1、Description

The evapotranspiration and soil evapotranspiration of lycium rubra and red sand of small shrubs in typical desert weather were observed by using infrared gas analyzer to measure water vapor flux.  
The measurement system consists of li-8100 closed-circuit automatic measurement of soil carbon flux (li-cor, USA) and an assimilation box designed and manufactured by Beijing ligotai technology co., LTD. Li-8100 is an instrument produced by li-cor for soil carbon flux measurement. It USES an infrared gas analyzer to measure the concentration of CO2 and H2O.The length, width and height of the assimilation box are all 50cm.The assimilation box is controlled by li-8100. After setting up the measurement parameters, the instrument can run automatically.

2、Keywords

Theme：Carbon flux,Soil,Vegetation,Biomass,Evapotranspiration  
Discipline：Terrestrial Surface  
Places：Heihe River Basin  
Time：2014

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：2.8MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.0203 | - |
| west：99.7528 | - | east：101.2831 |
| - | south：38.7069 | - |

5、Time frame:2014-09-03 10:47:02+00:00--2015-01-19 10:47:02+00:00

6、Reference method

References to data:

SU Peixi. Experimental observation data of water consumption and law of water consumption of different life type desert plants in Heihe River basin (2014). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2709232016

References to articles:

高松, 苏培玺, 严巧娣. (2011). 荒漠植物梭梭群体和叶片水平气体交换对不同. 中国科学: 生命科学, 41(3), 226 - 237.

7、Supporting project information

8、Data resource provider

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