A Big Earth Data Platform for Three Poles

**Physiological index analysis data of typical desert plants in Heihe River basin (2011-2012)**

1、Description

On the basis of physiological and biochemical analysis of photosynthetic organs (leaves or assimilating branches) of typical desert plants in heihe river basin collected in mid-july 2011, some photosynthetic organs of desert plants were collected in mid-july 2012 and put into a liquid nitrogen tank and brought back to the laboratory for determination.  
Physiological analysis indexes mainly include: soluble protein unit: mg/g;Free amino acid unit: g/g;Chlorophyll content unit: mg/g;Superoxide dismutase (SOD) unit: U/g FW;Catalase (CAT) unit: U/(g•min);POD unit: U/(g•min);Proline (Pro) unit: g/g;  
Soluble sugar unit: g/g;Malondialdehyde (MDA) is given in moles per liter.

2、Keywords

Theme：Photosynthesis,Desert,Vegetation,Desert ecosystem,Physiological indexes  
Discipline：Terrestrial Surface  
Places：Heihe River Basin  
Time：2011-2012

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：0.06MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.1147222222222 | - |
| west：99.752777777 | - | east：101.28305555 |
| - | south：38.70694444 | - |

5、Time frame:2011-07-22 02:50:20+00:00--2012-08-07 02:50:20+00:00

6、Reference method

References to data:

Physiological index analysis data of typical desert plants in Heihe River basin (2011-2012). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.218.2013.db2014

References to articles:

7、Supporting project information

Water use efficiency and related regulation mechanisms of desert vegetation in different scales

8、Data resource provider