A Big Earth Data Platform for Three Poles

**Soil observation data of typical sample points in Heihe River Basin (2012-2014)**

1、Description

The data set contains soil observation data of typical sample points in Heihe River Basin: pH value and soil texture  
1. Soil pH value: longitude, latitude and pH value of typical soil sample points.  
2. Soil texture: including soil texture data of typical soil samples in Heihe River Basin from July 2012 to August 2013. The typical soil sampling method in Heihe River Basin is representative sampling, which means that the typical soil types in the landscape area can be collected, and the representative sample points should be collected as far as possible. According to the Chinese soil taxonomy, soil samples from each profile were taken based on the diagnostic layers and diagnostic characteristics.

2、Keywords

Theme：Soil,Soil texture,Soil PH  
Discipline：Terrestrial Surface  
Places：Heihe River Basin  
Time：2012-2014

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：1.0MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.3 | - |
| west：96.1 | - | east：104.2 |
| - | south：37.7 | - |

5、Time frame:2012-07-10 17:00:00+00:00--2013-09-10 03:25:00+00:00

6、Reference method

References to data:

ZHANG Ganlin. Soil observation data of typical sample points in Heihe River Basin (2012-2014). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.00135.2016.db2016

References to articles:

Song, X.D., Brus, D.J., Liu, F., Li, D.C., Zhao, Y.G., Yang, J.L., Zhang, G.L. (2016). Mapping soil organic carbon content by geographically weighted regression: A case study in the Heihe River Basin, China. Geoderma, 261, 11–22.  
  
Yang, R.M., Zhang, G.L., Liu, F., Lu, Y.Y., Yang, F., Yang, F., Yang, M., Zhao, Y.G., Li, D.C. (2016). Comparison of boosted regression tree and random forest models for mapping topsoil organic carbon concentration in an alpine ecosystem. Ecological Indicators, 60, 870–878.

7、Supporting project information

8、Data resource provider

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