A Big Earth Data Platform for Three Poles

**Digital soil mapping dataset of sand content in the Heihe River Basin**

1、Description

According to the global soil map. Net standard, the 0-1m soil depth is divided into 5 layers: 0-5cm, 5-15cm, 15-30cm, 30-60cm and 60-100cm. According to the principle of soil landscape model, the spatial distribution data products of soil sand content in different layers are made by using the digital soil mapping method. The American system classification is used as the standard of soil particle classification. The source data of this data set comes from the soil profile data integrated by the major research plan integration project of Heihe River Basin (soil data integration and soil information product generation of Heihe River Basin, 91325301).  
Scope: Heihe River Basin;   
Projection: WGS · 1984 · Albers;   
Spatial resolution: 100M;  
Data format: TIFF;   
Dataset content:   
hh\_sand\_layer1.tif: 0-5cm soil sand content;   
hh\_sand\_layer2.tif: 5-15cm soil sand content;   
hh\_sand\_layer3.tif: 15-30cm soil sand content;   
hh\_sand\_layer4.tif: 30-60cm soil sand content;   
hh\_sand\_layer5.tif: 60-100cm soil sand content;

2、Keywords

Theme：Soil,Soil particle size  
Discipline：Terrestrial Surface  
Places：Heihe River Basin  
Time：2012-2015

3、Data details

1.Scale：500000

2.Projection：4326

3.Filesize：466.0MB

4.Data format：三维土壤砂粒含量分布数据集

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：42.68 | - |
| west：97.06 | - | east：101.98 |
| - | south：37.68 | - |

5、Time frame:2012-07-16 14:00:00+00:00--2015-07-16 15:00:00+00:00

6、Reference method

References to data:

ZHANG Ganlin. Digital soil mapping dataset of sand content in the Heihe River Basin. A Big Earth Data Platform for Three Poles, doi:10.11888/Soil.tpdc.2705222016

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.

7、Supporting project information

8、Data resource provider

name: ZHANG Ganlin  
unit:   
email: glzhang@issas.ac.cn