A Big Earth Data Platform for Three Poles

**Soil organic carbon concentrations of representative samples in the Heihe River Basin**

1、Description

The data set includes soil organic carbon concentrations data of representative soil samples collected from July 2012 to August 2013 in the Heihe River Basin. The first soil survey was conducted in 2012. After the representativeness evaluation of collected samples, we conducted an additional sampling in 2013. These samples are representative enough to represent the soil variation in the Heihe River Basin, of which the soil variation in each landscape could be accounted for. The sampling depths in field refer to the sampling specification of Chinese Soil Taxonomy, in which soil samples were taken from genetic soil horizons.

2、Keywords

Theme：Carbon flux,Soil,Organic matter,Organic geochemistry,Geochemistry,Soil fertility  
Discipline：Terrestrial Surface,Solid earth  
Places：TP-Plateau Heihe, Heihe River Basin  
Time：2012-2013

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.1MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.34 | - |
| west：96.13 | - | east：104.19 |
| - | south：37.71 | - |

5、Time frame:2012-07-13 08:00:00+00:00--2013-09-12 08:00:00+00:00

6、Reference method

References to data:

ZHANG Ganlin. Soil organic carbon concentrations of representative samples in the Heihe River Basin. A Big Earth Data Platform for Three Poles, doi:10.11888/Soil.tpdc.2704102020

References to articles:

Song XD, Brus DJ, Liu F, Li DC, Zhao YG, Yang JL, Zhang GL. 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

Second Tibetan Plateau Scientific Expedition Program  
Digital soil mapping in the Heihe River Basin

8、Data resource provider

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