A Big Earth Data Platform for Three Poles

**Chemical characteristics of water and soil samples in Lake Balkash basin**

1、Description

The concentration of major ions and their molar ratios are used to identify sources of the solutes and highlight their hydrochemical evolutions in surface waters. In order to analyze the spatial distribution characteristics and further explore the formation reason and environmental significance, major ions were measured in lake and river water samples collected in the Lake Balkash basin. Ca2+ and HCO3− were the dominant ions of river waters, and originated mainly from carbonate weathering. Lakes waters are of the Na-SO4 2− and Na-Cl- type, reflecting persistent, long-term evaporation under an arid climate.

2、Keywords

Theme：Heavy metals,Soil,Water Quality/Water Chemistry  
Discipline：Terrestrial Surface  
Places：Lake Balkash basin  
Time：2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.24MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：50.0 | - |
| west：72.0 | - | east：85.0 |
| - | south：44.0 | - |

5、Time frame:2018-12-29 08:00:00+00:00--2018-12-29 08:00:00+00:00

6、Reference method

References to data:

WU Jinglu. Chemical characteristics of water and soil samples in Lake Balkash basin. A Big Earth Data Platform for Three Poles, doi:10.11888/Hydro.tpdc.2704882019

References to articles:

7、Supporting project information

Pan-Third Pole Environment Study for a Green Silk Road-A CAS Strategic Priority A Program

8、Data resource provider

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