A Big Earth Data Platform for Three Poles

**Freezing/ thawing index for air in the Heihe River Basin**

1、Description

According to the monthly temperature observation data of each conventional meteorological station in Heihe River basin set up by China Meteorological Administration, the annual air freeze-thaw index of each meteorological station is calculated, and then the annual average value of 1960-2004 is obtained. Finally, based on the regression relationship between the multi-year mean value of air freeze-thaw index and altitude of each meteorological station, and with the aid of 1 km DEM data, the spatial distribution map of air freeze-thaw index in Heihe River Basin is constructed.

2、Keywords

Theme：Meteorological Disaster,Freezing/Thawing index for air
Discipline：Atmosphere
Places：Heihe River Basin
Time：

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.05MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.0 | - |
| west：97.0 | - | east：102.0 |
| - | south：38.0 | - |

5、Time frame:1950-01-13 03:00:00+00:00--2009-01-12 06:43:00+00:00

6、Reference method

References to data:

ZHANG Tingjun. Freezing/ thawing index for air in the Heihe River Basin. A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.099.2014.db2014

References to articles:

王庆峰. 黑河流域土壤季节冻融过程及多年冻土与气候的关系研究[D]. 北京：中国科学院大学.

7、Supporting project information

8、Data resource provider

name: ZHANG Tingjun
unit:
email: tjzhang@lzu.edu.cn