A Big Earth Data Platform for Three Poles

**Simulated land use changes using Dyna-CLUE model under multiple scenarios in the upstream and midstream of the Heihe River Basin (1986-2030)**

1、Description

This data is the simulation data of land use changes using Dyna-CLUE model under multiple scenarios in Heihe River Basin. The time period is 1986-2030, 1986 is the actual reference data, and 1987-2030 is the simulation data. Scenarios include historical trend scenarios, ecological protection scenarios, strict ecological protection scenarios, economic development scenarios and rapid economic development scenarios. Dyna-CLUE model is used to simulate different scenarios. Data format is Arc ASCII format.

2、Keywords

Theme：Land use,Land Resources  
Discipline：Human-nature Relationship  
Places：Heihe River Basin, Upper Reaches of Heihe Basin  
Time：1986-2030

3、Data details

1.Scale：None

2.Projection：4326

3.Filesize：0.013MB

4.Data format：EXCEL

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.85 | - |
| west：98.51 | - | east：101.83 |
| - | south：37.72 | - |

5、Time frame:1986-08-09 16:00:00+00:00--2031-01-09 01:31:00+00:00

6、Reference method

References to data:

NAN Zhuotong. Simulated land use changes using Dyna-CLUE model under multiple scenarios in the upstream and midstream of the Heihe River Basin (1986-2030). A Big Earth Data Platform for Three Poles, doi:10.3972/heihe.114.2014.db2015

References to articles:

张凌，黑河流域中上游土地利用变化和水文响应多情景分析[D]. 中国科学院大学,p1-82.

7、Supporting project information

8、Data resource provider

name: NAN Zhuotong  
unit: Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences  
email: nztong@lzb.ac.cn