A Big Earth Data Platform for Three Poles

**Framework data of species distribution model construction**

1、Description

This framework aims to improve the predicting power of species distribution models through testing models using demographic history since Last Glacial Maximum. By building species distribution models based on different combinations of environmental variables, and then comparing with current distributions, different scenarios of demographic histories can be generated. These scenarios will be compared with demographic history which reconstructed using genetic data. In this way, the best environmental variables combination can be determined. Then, building species distribution model using the chosen environmental variables combination will have more predicting power in predicting distribution changes in the future.

2、Keywords

Theme：Biological Resources,Model prediction,Reptiles,Herpetofauna  
Discipline：Human-nature Relationship  
Places：Tibetan Plateau, Pan-Third pole  
Time：2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：0.28MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：37.0 | - |
| west：78.0 | - | east：100.0 |
| - | south：27.0 | - |

5、Time frame:2018-09-03 16:00:00+00:00--2019-07-05 16:00:00+00:00

6、Reference method

References to data:

CHE Jing. Framework data of species distribution model construction. A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2705102019

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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