A Big Earth Data Platform for Three Poles

**The demographic history and local adaptation of Equus (2018)**

1、Description

To analyzing the demographic history and the genetic mechanism underlying local adaptation of the domestic Equus animals in Qinghai-Tibet Plateau and surrounding regions and building a genetic resources bank of Equus in Pan-Third Pole, we resequenced 236 domestic Equus animal samples collected until 2018, including Tibet horse, Tibet ass, domestic horses and donkeys in the plains. By applying mitochondrial DNA sequencing and D-loop sequencing on 75 samples, including 73 ass and two horses, , a batch of genetic and genome data were generated. It provides basic genetic data to analysis on domestication, immigration and expansion of domestic animals in Qinghai-Tibet Plateau. Meanwhile it helps better understand the adaption of domestic Equus animal to Qinghai-Tibet Plateau environment.

2、Keywords

Theme：Biological Resources,Mammals,Animal resources
Discipline：Human-nature Relationship
Places：Pan-Third pole, Tibet, Tibetan Plateau, Qinghai Province, Xinjiang
Time：2018

3、Data details

1.Scale：None

2.Projection：

3.Filesize：5560000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：43.0 | - |
| west：35.0 | - | east：106.0 |
| - | south：23.0 | - |

5、Time frame:2018-01-08 08:00:00+00:00--2019-01-07 19:59:59+00:00

6、Reference method

References to data:

LI Yan. The demographic history and local adaptation of Equus (2018). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2702492019

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

name: LI Yan
unit: Yunnan University
email: liyan0910@ynu.edu.cn