A Big Earth Data Platform for Three Poles

**The zonation dataset of native forage planting suitability in Qinghai (2021)**

1、Description

The dataset includes climate suitability zonation, climate and soil suitability zonation and climate and soil terrain suitability zonation dataset of 8 forages. The dataset can provide important data support for artificial grassland construction. Based on the climate index model and maximum entropy model, the climate suitability index of each pasture was constructed by using the temperature, precipitation data of the last 40 years and elevation data, and considering the soil type, soil organic matter content and topographic factors, the planting zonation of eight pasture species was established in Qinghai. Eight forages are important forage resources in alpine areas. The accuracy of climate suitability index was ensured by field investigation, and the practicability of dataset of pasture planting zonation was ensured by comprehensive consideration of climate factors and soil topographic factors. Artificial grassland planting is not only the main means of ecological restoration of degraded grassland, but also an important part of grassland production structure adjustment. Reasonable and scientific grass planting is the foundation. The dataset of forage planting zonation has an important application prospect in the implementation of major ecological projects and the scientific management of grassland.

2、Keywords

Theme：Climatic suitability,Native forage,Grassland,Planting zonation
Discipline：Terrestrial Surface
Places：Qinghai
Time：2021

3、Data details

1.Scale：None

2.Projection：WGS84

3.Filesize：118.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.22 | - |
| west：89.61 | - | east：103.08 |
| - | south：31.58 | - |

5、Time frame:None--None

6、Reference method

References to data:

SU Wenjiang , ZHOU Huakun , SHI Mingming , ZHAO Huifang , ZHOU Bingrong . The zonation dataset of native forage planting suitability in Qinghai (2021). A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2726962022

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: SHI Mingming
unit: Institute of Meteorological Science of Qinghai Province
email: shim2016@163.com

name: ZHOU Bingrong
unit: Institute of Meteorological Science of Qinghai Province
email: zbr0515@foxmail.com

name: ZHOU Huakun
unit: Northwest Plateau Institute of Biology, Chinese Academy of Sciences
email: hkzhou@nwipb.cas.cn

name: SU Wenjiang
unit: Institute of Meteorological Science of Qinghai Province
email: 88944078@qq.com

name: ZHAO Huifang
unit: Institute of Meteorological Science of Qinghai Province
email: 414088284@qq.com