A Big Earth Data Platform for Three Poles

**Camera trap and environmental parameter data set of terrestrial vertebrates in Qilian Mountain reserve (August 2020- October 2021)**

1、Description

This data set includes two infrared cameras and environmental parameter data sets of three terrestrial vertebrates deployed in Qilian Mountain reserve. The equipment is deployed near Sidalong in Qilian Mountain reserve, with a time span of (2020.8-2021.10). Due to equipment maintenance and insufficient illumination, some data are discontinuous, but the data of the two equipment can complement each other and reconstruct all the information of observation points in Qilian Mountain reserve from August 2020 to October 2021.
One of the two devices is equipped with an infrared camera, which collects 4994 photos, which can be matched with the above sensor photos, or the ecological factor information before and after taking photos.
1. Wild animals and temperature, humidity, light, pressure and network signal strength information in Qilian Mountain reserve. The acquisition interval is once every half an hour
2. Data source: "development of terrestrial vertebrate monitoring equipment", 2016yfc0500104, completed by: Institute of zoology, Chinese Academy of Sciences, raw data, unprocessed
3. The sensor data acquisition interval is every half an hour. The temperature accuracy is plus or minus 0.1 degrees and the humidity accuracy is plus or minus 0.5%. The photo data is divided into trigger and timing. The trigger data is generally triggered by wild animals in the field of vision of the infrared camera; the timing photo data is dynamically adjusted according to the battery power, and the acquisition interval is between 1-12 hours.
4. This data can be used to record the ambient temperature in the reserve. Combined with the infrared camera data, it can be used to analyze the activity rhythm of wild animals, coexistence analysis and distribution limiting factors.

2、Keywords

Theme：Biological Resources,Desert,Model prediction,Diversity and distribution,Grassland,Diversity and protection,Desert ecosystem,Grassland,Vertebrate
Discipline：Terrestrial Surface,Human-nature Relationship
Places：Qilian Mountain Nature Reserve
Time：2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：4000.0MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：39.0 | - |
| west：100.4 | - | east：100.5 |
| - | south：38.9 | - |

5、Time frame:2020-07-31 16:00:00+00:00--2021-10-31 03:59:59+00:00

6、Reference method

References to data:

QIAO Huijie. Camera trap and environmental parameter data set of terrestrial vertebrates in Qilian Mountain reserve (August 2020- October 2021). A Big Earth Data Platform for Three Poles, doi:10.11888/Ecolo.tpdc.2718202021

References to articles:

7、Supporting project information

Innovative development of equipments and internet-of-things techniques for ecosystem monitoring and its demonstration

8、Data resource provider

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