A Big Earth Data Platform for Three Poles

**Microbial amplicon sequencing dataset for glacial ice and snow on the Tibetan Plateau (V1.0) (2016-2020)**

1、Description

The dataset contains microbial amplicon sequencing data from a total of 269 ice samples collected from 15 glaciers on the Tibetan Plateau from November 2016 to August 2020, including 24K Glacier (24K), Dongkemadi Glacier (DKMD), Dunde Glacier (DD), Jiemayangzong Glacier (JMYZ), Kuoqionggangri Glacier (KQGR), Laigu Glacier (LG), Palung 4 Glacier (PL4), Qiangtang 1 Glacier (QT), Qiangyong Glacier (QY), Quma Glacier (QM), Tanggula Glacier (TGL), Xiagangjiang Glacier (XGJ), Yala Glacier (YA), Zepugou Glacier (ZPG), ZhufengDongrongbu Glacier (ZF). The sampling areas ranged in latitude and longitude from 28.020°N to 38.100°N and 86.28°E to 95.651°E.
The 16s rRNA gene was amplified by polymerase chain reaction (PCR) using 515F/907R (or 515F/806R) primers and sequenced with the Illumina Hiseq2500 sequencing platform to obtain raw data. The selected primer sequences were "515F\_GTGYCAGCMGCCGCGGTAA; 907R\_CCGTCAATTCMTTTRAGTTT" "515F\_GTGCCAGCMGCCGCGG; 806R\_ GGACTACHVGGGTWTCTAAT". The uploaded data include: sample number, sample description, sampling time, latitude and longitude coordinates, sample type, sequencing target, sequencing fragment, sequencing primer, sequencing platform, data format and other basic information. The sequencing data are stored in sequence file data format forward \*.1.fq.gz and reverse \*.2.fq.gz compressed files.

2、Keywords

Theme：Biological Resources,Others,Snow,Microbial resources,Amplicon sequencing,Glacier
Discipline：Human-nature Relationship,Cryosphere
Places：Tibetan Plateau
Time：2016-2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：2191.36MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.1 | - |
| west：86.28 | - | east：95.651 |
| - | south：28.02 | - |

5、Time frame:2016-11-14 16:00:00+00:00--2020-08-14 16:00:00+00:00

6、Reference method

References to data:

LIU Yongqin. Microbial amplicon sequencing dataset for glacial ice and snow on the Tibetan Plateau (V1.0) (2016-2020). A Big Earth Data Platform for Three Poles, doi:10.11888/HumanNat.tpdc.2725022022

References to articles:

7、Supporting project information

Second Tibetan Plateau Scientific Expedition Program

8、Data resource provider

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