A Big Earth Data Platform for Three Poles

**Rcords of herbivore damage patterns on leaves fossil of plant assemblages in southeastern margin of the Qinghai-Tibetan Plateau (2020)**

1、Description

This dataset is derived from the paper: Deng, W. et al. (2020). Sharp changes in plant diversity and plant-herbivore interactions during the Eocene–Oligocene transition on the southeastern Qinghai-Tibetan Plateau. Global and Planetary Change, 194, 103293. doi:10.1016/j.gloplacha.2020.103293  
This data contains herbivore damage patterns on fossil leaves of plant assemblages from the latest Eocene layer and the earliest Oligocene layer in Kajun Village, Markam County, southeastern margin of the Qinghai-Tibetan Plateau.  
Herbivore damage patterns on fossil leaves are essential to explore the evolution of plant-herbivore interactions under paleoenvironmental changes and to better understand the evolutionary history of terrestrial ecosystems. The Eocene–Oligocene transition (EOT) is a period of dramatic paleoclimate changes that significantly impacted global ecosystems, Researchers identified taxonomic composition of the flora, and investigated well-preserved herbivore damage on fossil leaves from two layers(the latest Eocene layer (MK-3, ~34.6 Ma) and the earliest Oligocene layer (MK-1, ~33.4 Ma)) of the Lawula Formation in Markam County, southeastern Qinghai-Tibetan Plateau (QTP), China.  
The data contains tables of the records of the leaves fossil, the fileds of the tables are as following:  
Basic Code; Database RFID; Family code; Genera code; Species code; Marks; Plant-herbivore; Leaves for damage; FFGs & DTs; Code marks; Hole feeding; Margin feeding; Skeletonization; Surface feeding; Piercing & Sucking; Oviposition; Mining; Galling; Fungal; Incertae Sedis; Boring; Undefined  
This dataset also contains some figures in the article.

2、Keywords

Theme：Paleontology,Vegetation  
Discipline：Terrestrial Surface,Palaeoenvironment,Solid earth  
Places：Markam County, Southeastern Tibetan Plateau, Kajun Village  
Time：2020

3、Data details

1.Scale：None

2.Projection：

3.Filesize：49.7MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：29.75 | - |
| west：98.42 | - | east：98.42 |
| - | south：29.75 | - |

5、Time frame:None--None

6、Reference method

References to data:

SU Tao, DENG Weiyudong. Rcords of herbivore damage patterns on leaves fossil of plant assemblages in southeastern margin of the Qinghai-Tibetan Plateau (2020). A Big Earth Data Platform for Three Poles, doi:10.11888/Paleoenv.tpdc.2710672020

References to articles:

Deng, W., Su, T., Wappler, T., Liu, J., Li, S., Huang, J., Tang, H., Low, S. L., Wang, T., Xu, H., Xu, X., Liu, P., & Zhou, Z. (2020). Sharp changes in plant diversity and plant-herbivore interactions during the Eocene–Oligocene transition on the southeastern Qinghai-Tibetan Plateau. Global and Planetary Change, 194, 103293. doi:10.1016/j.gloplacha.2020.103293

7、Supporting project information

8、Data resource provider

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