A Big Earth Data Platform for Three Poles

**Fossil Records of Palms of the Lunpola Basin, central Tibetan Plateau (2019)**

1、Description

This dataset is derived from the paper: Su, T. et al. (2019). No high tibetan plateau until the Neogene. Science Advances, 5(3), eaav2189. doi:10.1126/sciadv.aav2189  
This data contains supplementary material of this article.  
Researchers discovered well-preserved palm fossil leaves from the Lunpola Basin (32.033°N, 89.767°E), central Tibetan Plateau at a present elevation of 4655 m in 2016. Researchers compared the newly discovered fossil with those present fossil that are most similar, find that there is no similar leaves among present fossil, therefore, researchers proposed the new species <em>S. tibetensis</em> T. Su et Z.K. Zhou sp. nov. Using the climate model, combined with the research of the fossil, researchers rebuilt the paleoelevation of the central Tibetan Plateau, it shows that a high plateau cannot have existed in the core of Tibet in the Paleogene.  
The data contains the following tables:  
1) Table S1. Fossil records of palms around the world.  
2) Table S2. Morphological comparisons between fossils from Lunpola Basin and modern palm genera.  
3) Table S3. Climate ranges of 12 living genera that show the closest morphological similarity to <em>S. tibetensis</em> T. Su et Z.K. Zhou sp. nov.  
This dataset also contains the figures in the supplementary material in the article.

2、Keywords

Theme：Topography,Paleontology,Vegetation,Palm  
Discipline：Terrestrial Surface,Solid earth  
Places：Lunpola Basin, Tibetan Pleteau  
Time：2019

3、Data details

1.Scale：None

2.Projection：

3.Filesize：7.52MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：32.033 | - |
| west：89.767 | - | east：89.767 |
| - | south：32.033 | - |

5、Time frame:2018-12-31 16:00:00+00:00--2019-12-30 16:00:00+00:00

6、Reference method

References to data:

SU Tao. Fossil Records of Palms of the Lunpola Basin, central Tibetan Plateau (2019). A Big Earth Data Platform for Three Poles, 2020

References to articles:

Su, T., Farnsworth, A., Spicer, R.A., Huang, J., Wu, F.X., Liu, J., Li, S.F., Xing, Y.W., Huang, Y.J., Deng, W.Y.D., Tang, H., Xu, C.L., Zhao, F., Srivastava, G., Valdes, P.J., Deng, T., & Zhou, Z.K. (2019). No high tibetan plateau until the Neogene. Science Advances, 5(3), eaav2189. doi:10.1126/sciadv.aav2189

7、Supporting project information

8、Data resource provider

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