A Big Earth Data Platform for Three Poles

**The receiver function data of the Southern Station of the ANTILOPE-1 Array (2006-2007)**

1、Description

The data set mainly includes P-wave and S-wave receiver functions calculated from the waveform data collected at the southern station of the ANTILOPE-1 array, which is located in the western part of the Tibetan Plateau. This array was established by the Antelope Project of the International Lithosphere Exploration Research Program in the Tibetan Plateau.  
The pulse deconvolution method was applied to the time domain to calculate the receiver function. All of the receiver function data were visually inspected to remove low-quality records that were significantly different from the majority of the receiver functions.  
The data set was compressed into a zip format file containing two folders: ANTILOPE-1-PRF and ANTILOPE-1-SRF, where PRF and SRF represent the P-wave receiver function and the S-wave receiver function, respectively. All P-wave and S-wave receiver function data were placed in the corresponding folders.  
The data are mainly used to investigate the lithospheric structure and reveal the deep dynamics of plateau uplift.

2、Keywords

Theme：Rock Structure,Rocks/Minerals  
Discipline：Solid earth  
Places：Tibetan Plateau   
Time：2006-2007

3、Data details

1.Scale：None

2.Projection：

3.Filesize：3.36MB

4.Data format：Q文件

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：38.0 | - |
| west：73.0 | - | east：104.0 |
| - | south：28.0 | - |

5、Time frame:2006-11-09 16:00:00+00:00--2007-11-08 16:00:00+00:00

6、Reference method

References to data:

XU Qiang. The receiver function data of the Southern Station of the ANTILOPE-1 Array (2006-2007). A Big Earth Data Platform for Three Poles, doi:10.11888/Geophys.tpe.249474.file2018

References to articles:

Xu, Q., Zhao, J.M., Yuan, X.H., Liu, H.B., & Pei, S.P. (2017). Detailed configuration of the underthrusting Indian lithosphere beneath western Tibet revealed by receiver function images. Journal of Geophysical Research, 122(10), 8257-8269.

7、Supporting project information

8、Data resource provider

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