A Big Earth Data Platform for Three Poles

**S receiver functions of the Northeastern Tibetan Plateau (2009-2016)**

1、Description

The dataset partially used in the study of paper 2018GC007986 includes S receiver functions derived from 48 permanent stations and 11 stations of a temporary HY array deployed in the northeastern Tibetan Plateau.
The dataset as a zipped file contains one folder, two files including NETibet\_SRF.QBN and NETibet\_SRF.QHD.
A spiking deconvolution in the time domain is used to calculate the P and S receiver functions, all the S receiver functions have been visually inspected to remove the bad traces that obviously different from the majority.
The dataset is applied to explore the lithospheric structure and understand the mechanism of northeastern expansion and growth of NE Tibetan Plateau.

2、Keywords

Theme：S receiver functions,Seismology
Discipline：Solid earth
Places：Northeastern Tibetan Plateau
Time：

3、Data details

1.Scale：None

2.Projection：

3.Filesize：15.7MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：40.0 | - |
| west：96.0 | - | east：110.0 |
| - | south：30.0 | - |

5、Time frame:2009-01-05 16:00:00+00:00--2016-09-04 16:00:00+00:00

6、Reference method

References to data:

XU Qiang. S receiver functions of the Northeastern Tibetan Plateau (2009-2016). A Big Earth Data Platform for Three Poles, doi:10.11888/Geophys.tpe.249491.file2019

References to articles:

Xu, Q., Pei, S.P., Yuan, X.H., Zhao, J.M., Liu, H.B., Tu, H.W., &Chen, S.Z. (2019). Seismic evidence for lateral asthenospheric flow beneath the northeastern Tibetan Plateau derived from S receiver functions. Geochemistry Geophysics Geosystems, 20(2), 883-894.

7、Supporting project information

8、Data resource provider

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