

## **Description of Additional Supplementary Files**

File name: Supplementary Data 1

Description: Template matching catalog, including 3,437 events .

File name: Supplementary Data 2

Description: Relative location catalog based on waveform correlation, including 51 events .

File name: Supplementary Data 3

Description: Relocated catalog based on tS-tP and distance geometry technique, including 408 events.