

Supplementary Table S1: Detailed records of earthquakes above magnitude 4 within 400 km of the Maqu, Meixi, and Jiulongxia continuous monitoring stations.

| No. | Location | Longitude | Latitude | Time | Magnitude | Depth(km) | Dist_to_Maqu(km) | Dist_to_Maixi(km) | Dist_to_Jiulongxia(km) |
|-----|-----------|-----------|----------|------------|-----------|-----------|------------------|-------------------|------------------------|
| 1 | Shiqu | 99.02 | 32.92 | 2021/7/5 | 4.0 | 7 | 325 | 341 | - |
| 2 | Maduo | 98.28 | 34.68 | 2021/7/6 | 4.0 | 10 | 373 | 390 | - |
| 3 | Maqin | 99.02 | 34.47 | 2021/7/7 | 4.4 | 9 | 303 | 320 | - |
| 4 | Maqin | 98.95 | 34.5 | 2021/7/7 | 4.1 | 9 | 310 | 327 | - |
| 5 | Maduo | 98 | 34.74 | 2021/7/8 | 4.9 | 10 | 400 | - | - |
| 6 | Wenchuan | 103.37 | 30.97 | 2021/7/14 | 4.8 | 15 | 354 | 349 | 333 |
| 7 | Maduo | 98.29 | 34.68 | 2021/8/11 | 4.7 | 11 | 372 | 390 | - |
| 8 | Gande | 100.58 | 34.21 | 2021/12/6 | 4.7 | 9 | 157 | 174 | 288 |
| 9 | Qingchuan | 105.13 | 32.34 | 2022/1/20 | 4.0 | 10 | 325 | 311 | 224 |
| 10 | Beichuan | 104.27 | 31.91 | 2022/2/1 | 4.0 | 10 | 300 | 289 | 233 |
| 11 | Beichuan | 104.46 | 31.89 | 2022/5/8 | 4.1 | 8 | 313 | 301 | 240 |
| 13 | Maerkang | 101.82 | 32.27 | 2022/6/10 | 5.8 | 10 | 199 | 203 | 255 |
| 14 | Maerkang | 101.79 | 32.26 | 2022/6/10 | 4.1 | 10 | 201 | 205 | 258 |
| 15 | Maerkang | 101.79 | 32.28 | 2022/6/10 | 4.4 | 10 | 198 | 203 | 256 |
| 16 | Maerkang | 101.82 | 32.25 | 2022/6/10 | 6.0 | 13 | 201 | 206 | 257 |
| 17 | Maerkang | 101.85 | 32.24 | 2022/6/10 | 5.2 | 15 | 202 | 206 | 256 |
| 18 | Maerkang | 101.84 | 32.23 | 2022/6/10 | 4.4 | 12 | 203 | 207 | 257 |
| 19 | Maerkang | 101.79 | 32.25 | 2022/6/14 | 4.4 | 11 | 202 | 206 | 259 |
| 20 | Maduo | 99.14 | 35.56 | 2022/12/22 | 5.0 | 9 | 333 | 348 | - |

Notes: “-” indicates that the distance from the earthquake to the continuous monitoring station exceeds 400 km.