**Table S1 The coseismic GPS observations and predictions of the 2021 Maduo earthquake.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **GPS Sites** | **Lon**  **(deg)** | **Lat**  **(deg)** | **Observations (mm)** | | **Predictions (mm)** | |
| **East** | **North** | **East** | **North** |
| 1 | QHMD | 98.2080 | 34.9200 | -239.9000 | 89.8000 | -246.3600 | 86.4600 |
| 2 | QHBM | 100.7410 | 32.9320 | 4.7000 | -6.9000 | -3.1100 | -4.6500 |
| 3 | QHDL | 98.0960 | 36.2960 | -6.3000 | 11.5000 | -6.3500 | 9.5800 |
| 4 | QHME | 101.4010 | 37.4720 | 2.5000 | -3.7000 | -1.9700 | -1.0600 |
| 5 | QHMQ | 100.2490 | 34.4780 | -10.5000 | -7.0000 | -4.3800 | -10.9600 |
| 6 | T002 | 97.1071 | 33.3703 | 15.4177 | 3.4954 | 10.2100 | 5.4300 |
| 7 | T005 | 97.1362 | 33.8062 | 33.1398 | 18.2787 | 18.3400 | 10.8300 |
| 8 | T007 | 97.7789 | 34.2022 | 119.6351 | 20.7611 | 67.0800 | 12.8600 |
| 9 | T013 | 99.1017 | 35.3465 | -40.3199 | -7.2135 | -32.9200 | -11.43 |
| 10 | T019 | 98.1510 | 35.8796 | -9.2729 | 21.5292 | -11.2700 | -18.3100 |
| 11 | T020 | 100.0560 | 35.9266 | -10.1969 | -5.3322 | -9.5800 | -6.9400 |
| 12 | T022 | 97.5088 | 36.0432 | -9.4510 | 18.9911 | -8.7700 | 16.1000 |