**Electronic Supplement to**

**Attenuation characteristics of near-source ground motions from temporary observations of small earthquakes in Yunnan Province, China**

**by Hongrui Li, Hongwei Wang, Ruizhi Wen, Yefei Ren, Guoliang Li, Jianwen Cui, Ying Zhou**

**Basic information of 400 earthquakes in Western China used for developing the linear relationship between *M*L and *M*w.**

The table listed some basic information (e.g., earthquake time, *M*L, *M*w, epicenter location) of 400 earthquakes in Western China used for developing the linear relationship between *M*L and *M*w in this study.

**Table**

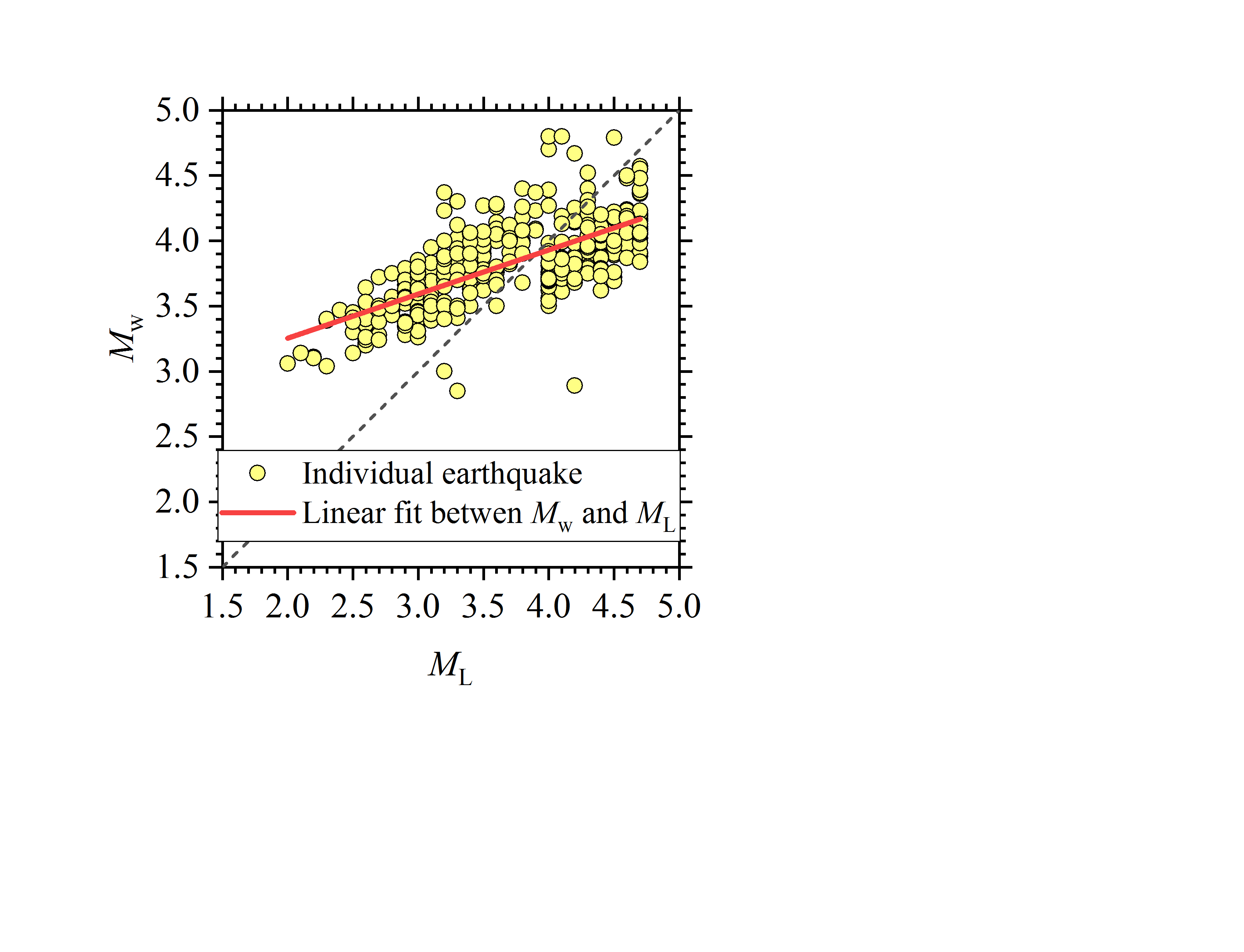
**[Table S2](file:///H:\\WHW-20171125\\00%20Earthquake%20recordings\\00%20Recordings%20in%20China\\Yunnan%20Temporary%20Records\\GMM%20for%20near-source%20recordings%20from%20small%20earthquakes%20in%20Yunnan\\01%20初修改\\Table1.mht)**. Basic information of 400 earthquakes in Western China used for developing the linear relationship between *M*L and *M*w in this study, including earthquake data, earthquake time, epicenter location, focal depth, local magnitude (*M*L), and moment magnitude (*M*w).

**Figure**

**[Figure S1](file:///H:\\WHW-20171125\\00%20Earthquake%20recordings\\00%20Recordings%20in%20China\\Yunnan%20Temporary%20Records\\GMM%20for%20near-source%20recordings%20from%20small%20earthquakes%20in%20Yunnan\\01%20初修改\\Table1.mht)**. *M*w versus *M*L for the 400 earthquakes in Western China, and linear fit between *M*W and *M*L.

**[Table S2](file:///D:\\WHW\\00%20Earthquake%20recordings\\several%202017%20earthquakes\\Ms7.0%20Jiuzhaigou\\02%20ground%20motion%20parameters\\manuscript\\Table1.mht)** Basic information of 400 earthquakes in Western China used for developing the linear relationship between *M*L and *M*w in this study, including earthquake data, earthquake time, epicenter location, focal depth, local magnitude (*M*L), and moment magnitude (*M*w).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Earthquake data&time  (yyyy-mm-dd hh:mm:ss) | Epicenter longitude (oE) | Epicenter latitude (oN) | Focal depth (km) | *M*L | *M*w |
| 2012-06-30 21:43:08 | 100.69 | 27.82 | 6 | 2 | 3.06 |
| 2012-08-23 05:12:22 | 100.71 | 27.79 | 6 | 2.1 | 3.14 |
| 2012-07-02 02:34:54 | 100.65 | 27.79 | 6 | 2.2 | 3.11 |
| 2012-07-11 00:41:11 | 100.66 | 27.80 | 6 | 2.2 | 3.1 |
| 2012-05-16 05:32:27 | 102.84 | 23.81 | 6 | 2.3 | 3.39 |
| 2012-11-16 11:21:04 | 100.68 | 27.77 | 4 | 2.3 | 3.04 |
| 2015-04-10 01:42:02 | 100.52 | 23.34 | 17 | 2.3 | 3.4 |
| 2012-06-30 12:11:11 | 100.18 | 25.80 | 5 | 2.4 | 3.47 |
| 2012-09-24 16:04:40 | 101.33 | 21.69 | 5 | 2.5 | 3.45 |
| 2013-03-03 02:42:33 | 99.94 | 26.17 | 8 | 2.5 | 3.39 |
| 2013-03-13 14:39:05 | 99.86 | 26.11 | 12 | 2.5 | 3.3 |
| 2014-07-31 16:40:36 | 100.49 | 25.87 | 8 | 2.5 | 3.41 |
| 2014-08-08 19:56:44 | 103.37 | 27.12 | 11 | 2.5 | 3.38 |
| 2014-09-08 00:43:13 | 103.41 | 27.05 | 7 | 2.5 | 3.38 |
| 2014-09-09 13:38:04 | 103.34 | 27.12 | 10 | 2.5 | 3.14 |
| 2012-03-24 04:13:13 | 100.03 | 25.90 | 5 | 2.6 | 3.42 |
| 2012-08-23 07:28:49 | 100.71 | 27.80 | 7 | 2.6 | 3.48 |
| 2012-10-05 01:59:08 | 99.19 | 24.66 | 6 | 2.6 | 3.21 |
| 2012-10-28 18:34:10 | 103.99 | 27.56 | 7 | 2.6 | 3.53 |
| 2012-11-17 12:52:04 | 104.00 | 27.51 | 4 | 2.6 | 3.64 |
| 2013-03-03 02:37:08 | 99.94 | 26.17 | 6 | 2.6 | 3.35 |
| 2013-09-25 17:29:15 | 100.81 | 26.72 | 11 | 2.6 | 3.35 |
| 2014-08-08 23:33:03 | 103.34 | 27.11 | 17 | 2.6 | 3.53 |
| 2014-08-10 17:20:16 | 100.48 | 25.86 | 10 | 2.6 | 3.36 |
| 2014-08-11 09:02:16 | 100.48 | 25.87 | 7 | 2.6 | 3.4 |
| 2014-08-18 10:10:05 | 103.35 | 27.11 | 11 | 2.6 | 3.22 |
| 2014-08-19 10:51:03 | 103.42 | 27.13 | 9 | 2.6 | 3.25 |
| 2014-08-22 14:19:53 | 103.34 | 27.09 | 11 | 2.6 | 3.2 |
| 2014-09-09 08:28:08 | 103.34 | 27.12 | 14 | 2.6 | 3.24 |
| 2014-11-23 02:17:14 | 103.40 | 27.06 | 10 | 2.6 | 3.26 |
| 2012-04-20 09:11:30 | 99.29 | 25.39 | 6 | 2.7 | 3.28 |
| 2013-01-06 14:46:55 | 104.00 | 27.51 | 6 | 2.7 | 3.72 |
| 2013-02-02 04:51:04 | 99.25 | 25.42 | 8 | 2.7 | 3.41 |
| 2014-08-08 16:53:59 | 103.35 | 27.10 | 17 | 2.7 | 3.49 |
| 2014-08-10 17:10:27 | 100.48 | 25.87 | 10 | 2.7 | 3.46 |
| 2014-09-14 16:22:05 | 103.35 | 27.12 | 13 | 2.7 | 3.24 |
| 2014-09-23 06:54:08 | 100.38 | 25.75 | 20 | 2.7 | 3.5 |
| 2014-10-08 05:31:09 | 100.47 | 23.43 | 20 | 2.7 | 3.38 |
| 2014-11-01 13:17:05 | 100.48 | 23.39 | 11 | 2.7 | 3.48 |
| 2014-12-08 01:14:21 | 100.50 | 23.37 | 16 | 2.7 | 3.24 |
| 2013-01-03 01:41:00 | 104.02 | 27.50 | 7 | 2.8 | 3.5 |
| 2013-02-22 05:47:36 | 100.82 | 26.71 | 10 | 2.8 | 3.75 |
| 2013-04-22 23:11:18 | 102.96 | 30.23 | 13 | 2.8 | 3.47 |
| 2013-07-25 09:38:14 | 103.97 | 27.50 | 12 | 2.8 | 3.57 |
| 2014-08-08 17:44:37 | 103.35 | 27.10 | 16 | 2.8 | 3.46 |
| 2014-08-23 10:29:12 | 103.37 | 27.05 | 7 | 2.8 | 3.43 |
| 2014-12-06 07:32:27 | 100.50 | 23.31 | 16 | 2.8 | 3.5 |
| 2012-06-25 07:13:08 | 100.74 | 27.76 | 6 | 2.9 | 3.66 |
| 2013-03-03 02:30:24 | 99.93 | 26.17 | 6 | 2.9 | 3.52 |
| 2013-04-22 13:42:52 | 102.83 | 30.16 | 14 | 2.9 | 3.58 |
| 2013-04-25 01:20:15 | 102.88 | 30.29 | 21 | 2.9 | 3.37 |
| 2013-04-26 14:00:52 | 102.96 | 30.36 | 24 | 2.9 | 3.38 |
| 2013-06-12 10:06:00 | 99.23 | 24.69 | 5 | 2.9 | 3.71 |
| 2013-06-21 01:48:50 | 99.45 | 25.57 | 5 | 2.9 | 3.63 |
| 2013-07-05 06:25:26 | 102.96 | 30.34 | 21 | 2.9 | 3.34 |
| 2013-09-25 10:36:34 | 100.80 | 26.73 | 11 | 2.9 | 3.69 |
| 2013-10-13 21:55:13 | 104.00 | 27.54 | 6 | 2.9 | 3.79 |
| 2014-03-08 14:52:51 | 103.55 | 31.30 | 20 | 2.9 | 3.28 |
| 2014-04-11 20:57:02 | 103.50 | 31.45 | 16 | 2.9 | 3.38 |
| 2014-08-03 18:12:43 | 103.34 | 27.11 | 7 | 2.9 | 3.7 |
| 2014-08-03 19:46:32 | 103.37 | 27.06 | 9 | 2.9 | 3.7 |
| 2014-09-08 10:40:37 | 103.43 | 27.11 | 7 | 2.9 | 3.6 |
| 2014-10-08 00:13:03 | 100.49 | 23.37 | 6 | 2.9 | 3.63 |
| 2014-11-12 10:44:47 | 104.14 | 31.82 | 18 | 2.9 | 3.35 |
| 2014-12-08 00:05:58 | 100.48 | 23.31 | 14 | 2.9 | 3.57 |
| 2014-12-17 11:08:29 | 103.37 | 27.10 | 14 | 2.9 | 3.56 |
| 2015-03-27 22:18:31 | 103.37 | 27.09 | 24 | 2.9 | 3.37 |
| 2013-03-03 00:52:15 | 99.97 | 26.16 | 8 | 3 | 3.6 |
| 2013-04-22 21:39:31 | 102.96 | 30.24 | 9 | 3 | 3.57 |
| 2013-04-23 01:38:03 | 102.95 | 30.24 | 13 | 3 | 3.69 |
| 2013-04-23 15:14:39 | 102.95 | 30.21 | 16 | 3 | 3.59 |
| 2013-04-25 04:51:37 | 102.89 | 30.27 | 10 | 3 | 3.4 |
| 2013-04-25 15:03:03 | 102.97 | 30.28 | 22 | 3 | 3.44 |
| 2013-04-28 06:34:36 | 102.95 | 30.21 | 14 | 3 | 3.72 |
| 2013-04-29 13:45:40 | 102.89 | 30.26 | 22 | 3 | 3.37 |
| 2013-05-06 20:06:56 | 102.97 | 30.24 | 21 | 3 | 3.38 |
| 2013-05-10 16:06:44 | 102.95 | 30.30 | 24 | 3 | 3.54 |
| 2013-05-22 18:00:23 | 102.88 | 30.30 | 24 | 3 | 3.38 |
| 2013-06-01 09:37:36 | 102.87 | 30.15 | 19 | 3 | 3.5 |
| 2013-11-15 11:11:55 | 102.94 | 30.37 | 14 | 3 | 3.46 |
| 2014-01-30 05:04:06 | 103.45 | 31.31 | 17 | 3 | 3.4 |
| 2014-03-10 19:17:20 | 104.03 | 31.64 | 22 | 3 | 3.45 |
| 2014-03-28 14:59:04 | 103.84 | 31.41 | 20 | 3 | 3.43 |
| 2014-05-04 15:09:38 | 104.49 | 31.93 | 16 | 3 | 3.26 |
| 2014-06-10 01:10:59 | 102.73 | 30.42 | 21 | 3 | 3.31 |
| 2014-08-03 18:34:01 | 103.36 | 27.11 | 11 | 3 | 3.71 |
| 2014-08-06 06:33:51 | 103.33 | 27.10 | 15 | 3 | 3.6 |
| 2014-08-07 07:25:25 | 103.42 | 27.04 | 5 | 3 | 3.61 |
| 2014-11-13 23:11:08 | 100.49 | 23.32 | 16 | 3 | 3.72 |
| 2014-12-06 04:12:59 | 100.49 | 23.34 | 16 | 3 | 3.62 |
| 2014-12-07 23:41:44 | 100.50 | 23.31 | 16 | 3 | 3.64 |
| 2014-12-16 11:03:39 | 103.06 | 30.32 | 15 | 3 | 3.66 |
| 2015-01-03 08:16:20 | 103.77 | 28.48 | 12 | 3 | 3.6 |
| 2015-03-10 06:44:36 | 103.33 | 27.12 | 9 | 3 | 3.63 |
| 2017-08-08 23:49:17 | 103.78 | 33.28 | 19 | 3 | 3.85 |
| 2017-08-09 06:24:48 | 103.84 | 33.15 | 18 | 3 | 3.76 |
| 2018-05-18 02:40:28 | 103.96 | 27.41 | 4 | 3 | 3.75 |
| 2018-09-04 06:24:28 | 77.05 | 39.52 | 8 | 3 | 3.8 |
| 2012-02-22 20:36:47 | 102.44 | 24.27 | 7 | 3.1 | 3.78 |
| 2013-04-13 09:40:07 | 99.03 | 24.83 | 5 | 3.1 | 3.69 |
| 2013-04-22 18:56:50 | 103.02 | 30.34 | 17 | 3.1 | 3.95 |
| 2013-04-24 11:10:50 | 102.96 | 30.23 | 19 | 3.1 | 3.62 |
| 2013-05-02 21:16:06 | 102.94 | 30.25 | 19 | 3.1 | 3.48 |
| 2013-05-03 05:01:27 | 102.86 | 30.19 | 18 | 3.1 | 3.43 |
| 2014-01-08 07:16:21 | 103.24 | 31.44 | 19 | 3.1 | 3.51 |
| 2014-01-19 13:46:23 | 102.97 | 30.36 | 17 | 3.1 | 3.61 |
| 2014-03-31 19:07:27 | 103.52 | 28.09 | 10 | 3.1 | 3.69 |
| 2014-06-11 22:46:43 | 103.59 | 31.26 | 18 | 3.1 | 3.39 |
| 2014-06-15 18:08:03 | 105.16 | 32.57 | 21 | 3.1 | 3.45 |
| 2014-06-23 19:58:50 | 103.00 | 30.30 | 16 | 3.1 | 3.6 |
| 2014-08-04 07:06:10 | 103.35 | 27.10 | 7 | 3.1 | 3.76 |
| 2014-09-17 13:05:41 | 103.34 | 27.10 | 13 | 3.1 | 3.69 |
| 2014-12-06 03:49:26 | 100.49 | 23.34 | 16 | 3.1 | 3.83 |
| 2015-01-28 02:14:29 | 103.77 | 28.48 | 10 | 3.1 | 3.56 |
| 2015-09-15 01:21:31 | 103.29 | 26.94 | 11 | 3.1 | 3.44 |
| 2016-10-25 22:29:20 | 104.16 | 32.58 | 18 | 3.1 | 3.53 |
| 2016-12-02 10:35:43 | 104.48 | 31.99 | 14 | 3.1 | 3.53 |
| 2016-12-04 03:20:09 | 104.98 | 32.12 | 20 | 3.1 | 3.53 |
| 2016-12-05 14:25:25 | 104.46 | 31.89 | 14 | 3.1 | 3.5 |
| 2014-01-19 12:32:16 | 104.55 | 32.22 | 18 | 3.2 | 3.53 |
| 2014-04-02 04:51:38 | 101.39 | 27.91 | 5 | 3.2 | 3.78 |
| 2014-08-08 14:39:28 | 103.35 | 27.12 | 7 | 3.2 | 4 |
| 2014-11-15 08:28:01 | 100.49 | 23.31 | 10 | 3.2 | 3.87 |
| 2014-12-06 03:54:19 | 100.50 | 23.32 | 17 | 3.2 | 3.74 |
| 2015-02-07 08:47:33 | 104.90 | 28.37 | 4 | 3.2 | 3.47 |
| 2015-08-28 19:44:44 | 103.39 | 31.32 | 20 | 3.2 | 3.7 |
| 2015-12-08 05:38:41 | 100.41 | 22.70 | 16 | 3.2 | 3.7 |
| 2016-12-23 04:43:48 | 99.61 | 30.08 | 14 | 3.2 | 4.37 |
| 2017-02-17 11:12:26 | 102.02 | 29.59 | 15 | 3.2 | 3.75 |
| 2017-08-08 23:51:12 | 103.89 | 33.12 | 12 | 3.2 | 3.8 |
| 2017-08-09 05:16:01 | 103.76 | 33.31 | 14 | 3.2 | 3.86 |
| 2017-08-09 05:41:08 | 103.85 | 33.17 | 16 | 3.2 | 4.23 |
| 2017-08-09 06:49:31 | 103.77 | 33.31 | 4 | 3.2 | 3.88 |
| 2017-09-24 02:50:45 | 105.50 | 32.50 | 14 | 3.2 | 3.53 |
| 2018-04-13 18:16:53 | 103.20 | 31.02 | 21 | 3.2 | 3.65 |
| 2018-09-04 07:20:38 | 77.06 | 39.49 | 6 | 3.2 | 3.5 |
| 2019-05-18 13:20:01 | 104.42 | 32.02 | 19 | 3.2 | 3.4 |
| 2007-09-24 21:51:30 | 102.67 | 26.83 | 5 | 3.2 | 3 |
| 2012-06-26 14:21:15 | 100.68 | 27.80 | 6 | 3.3 | 4.02 |
| 2012-07-27 07:59:53 | 99.99 | 25.61 | 6 | 3.3 | 3.82 |
| 2012-11-10 03:54:27 | 102.39 | 25.35 | 4 | 3.3 | 3.94 |
| 2013-05-09 20:18:56 | 102.99 | 30.27 | 11 | 3.3 | 3.89 |
| 2013-07-15 21:45:30 | 100.85 | 22.00 | 12 | 3.3 | 3.73 |
| 2014-04-05 05:20:49 | 102.99 | 30.01 | 27 | 3.3 | 3.41 |
| 2014-05-24 04:50:51 | 97.84 | 25.02 | 15 | 3.3 | 3.81 |
| 2014-10-07 07:25:19 | 103.27 | 27.11 | 15 | 3.3 | 3.76 |
| 2014-11-03 01:12:59 | 103.31 | 27.11 | 12 | 3.3 | 3.76 |
| 2014-12-06 02:50:05 | 100.50 | 23.30 | 6 | 3.3 | 4.3 |
| 2014-12-07 17:13:30 | 100.51 | 23.32 | 17 | 3.3 | 3.82 |
| 2015-06-21 08:13:26 | 103.35 | 27.07 | 6 | 3.3 | 3.75 |
| 2016-03-25 06:03:52 | 101.98 | 29.61 | 18 | 3.3 | 3.85 |
| 2017-08-19 19:52:11 | 103.90 | 33.12 | 12 | 3.3 | 4.12 |
| 2017-09-07 12:15:30 | 103.89 | 33.11 | 12 | 3.3 | 3.9 |
| 2018-02-15 11:27:40 | 99.97 | 27.23 | 16 | 3.3 | 3.77 |
| 2018-04-21 05:14:26 | 104.13 | 31.73 | 19 | 3.3 | 3.7 |
| 2019-02-10 05:36:01 | 104.01 | 31.63 | 24 | 3.3 | 3.5 |
| 2007-10-31 21:08:50 | 102.75 | 26.93 | 5 | 3.3 | 2.85 |
| 2008-07-07 14:11:23 | 100.20 | 26.32 | 3 | 3.3 | 3.48 |
| 2013-04-22 09:18:08 | 102.95 | 30.25 | 18 | 3.4 | 3.78 |
| 2013-04-23 01:27:13 | 102.84 | 30.27 | 24 | 3.4 | 3.65 |
| 2013-04-26 15:31:08 | 102.96 | 30.23 | 16 | 3.4 | 3.94 |
| 2013-07-06 05:09:54 | 102.95 | 30.34 | 20 | 3.4 | 3.77 |
| 2013-10-29 06:08:51 | 103.18 | 31.69 | 22 | 3.4 | 3.67 |
| 2013-12-25 14:29:04 | 104.92 | 32.25 | 19 | 3.4 | 3.63 |
| 2014-02-05 20:32:18 | 101.03 | 22.82 | 7 | 3.4 | 3.86 |
| 2014-07-31 12:33:42 | 100.48 | 25.86 | 5 | 3.4 | 3.93 |
| 2014-08-10 12:39:12 | 103.39 | 27.05 | 10 | 3.4 | 3.72 |
| 2014-08-13 20:16:28 | 103.36 | 27.09 | 6 | 3.4 | 3.9 |
| 2014-12-08 06:42:10 | 100.50 | 23.34 | 16 | 3.4 | 4.05 |
| 2014-12-15 00:35:13 | 103.05 | 30.36 | 17 | 3.4 | 3.81 |
| 2015-12-11 05:27:45 | 104.51 | 32.01 | 16 | 3.4 | 3.71 |
| 2017-08-09 00:35:17 | 103.84 | 33.15 | 21 | 3.4 | 3.99 |
| 2017-08-09 06:49:03 | 103.87 | 33.12 | 16 | 3.4 | 3.9 |
| 2017-08-10 09:54:02 | 103.84 | 33.18 | 14 | 3.4 | 3.87 |
| 2017-08-13 22:38:31 | 103.89 | 33.09 | 16 | 3.4 | 3.81 |
| 2018-09-04 21:57:57 | 76.99 | 39.50 | 19 | 3.4 | 3.5 |
| 2019-01-30 09:53:37 | 104.98 | 32.29 | 20 | 3.4 | 3.6 |
| 2019-06-16 20:51:13 | 103.76 | 33.36 | 15 | 3.4 | 3.9 |
| 2008-05-13 13:25:28 | 105.42 | 30.92 | 3 | 3.4 | 4.06 |
| 2012-04-04 00:54:52 | 123.21 | 41.49 | 9 | 3.5 | 3.9 |
| 2013-03-22 08:09:56 | 100.96 | 23.05 | 5 | 3.5 | 3.78 |
| 2013-04-22 17:14:04 | 103.01 | 30.32 | 18 | 3.5 | 3.9 |
| 2013-05-11 07:30:08 | 102.81 | 30.25 | 24 | 3.5 | 4.05 |
| 2013-05-11 09:07:20 | 102.98 | 30.31 | 20 | 3.5 | 3.94 |
| 2013-07-21 16:35:17 | 100.83 | 22.88 | 12 | 3.5 | 4.04 |
| 2014-06-10 09:28:07 | 105.17 | 32.57 | 14 | 3.5 | 3.8 |
| 2014-06-14 15:27:30 | 104.14 | 31.57 | 19 | 3.5 | 3.88 |
| 2014-08-21 13:11:19 | 100.48 | 25.86 | 5 | 3.5 | 4.04 |
| 2014-11-23 02:16:38 | 104.44 | 32.09 | 17 | 3.5 | 3.76 |
| 2015-02-24 08:52:06 | 104.01 | 31.67 | 24 | 3.5 | 3.96 |
| 2015-08-31 21:56:06 | 104.41 | 31.89 | 13 | 3.5 | 3.74 |
| 2015-11-26 09:25:30 | 103.18 | 29.33 | 19 | 3.5 | 3.62 |
| 2016-03-21 11:35:49 | 102.00 | 29.62 | 18 | 3.5 | 4.27 |
| 2016-05-21 01:55:02 | 103.28 | 31.52 | 19 | 3.5 | 3.78 |
| 2016-11-24 03:44:30 | 99.24 | 24.38 | 20 | 3.5 | 4.01 |
| 2018-02-27 21:42:30 | 103.46 | 31.60 | 18 | 3.5 | 3.73 |
| 2018-05-21 21:20:31 | 100.74 | 21.95 | 20 | 3.5 | 3.75 |
| 2018-07-06 13:19:45 | 103.29 | 30.36 | 20 | 3.5 | 4.07 |
| 2013-04-23 22:07:15 | 102.96 | 30.29 | 19 | 3.6 | 3.76 |
| 2013-08-05 03:18:42 | 101.08 | 22.55 | 5 | 3.6 | 4.14 |
| 2014-01-21 22:08:21 | 100.62 | 25.81 | 5 | 3.6 | 4 |
| 2014-07-26 21:26:18 | 100.50 | 25.88 | 7 | 3.6 | 4.07 |
| 2015-08-12 07:11:52 | 103.63 | 31.25 | 20 | 3.6 | 3.79 |
| 2016-03-11 19:07:16 | 101.39 | 27.92 | 15 | 3.6 | 4.09 |
| 2016-03-24 01:55:38 | 102.02 | 29.61 | 12 | 3.6 | 4.26 |
| 2017-08-09 09:22:14 | 103.84 | 33.16 | 21 | 3.6 | 4.28 |
| 2017-08-10 03:02:12 | 103.77 | 33.25 | 22 | 3.6 | 4.05 |
| 2018-09-05 02:44:08 | 77.01 | 39.48 | 17 | 3.6 | 3.7 |
| 2019-04-16 04:17:43 | 105.13 | 32.32 | 21 | 3.6 | 3.8 |
| 2019-12-03 11:34:11 | 114.55 | 40.44 | 10 | 3.6 | 3.7 |
| 2020-01-20 11:17:16 | 77.37 | 39.90 | 15 | 3.6 | 3.5 |
| 2020-04-21 00:54:44 | 77.24 | 39.90 | 16 | 3.6 | 3.66 |
| 2013-05-16 01:24:54 | 102.99 | 30.36 | 21 | 3.7 | 3.82 |
| 2013-11-07 04:26:25 | 102.93 | 30.33 | 19 | 3.7 | 3.91 |
| 2015-03-01 12:38:12 | 104.09 | 31.78 | 22 | 3.7 | 3.84 |
| 2017-02-02 08:34:29 | 104.76 | 28.14 | 12 | 3.7 | 4.01 |
| 2017-04-11 02:25:05 | 104.56 | 32.22 | 19 | 3.7 | 4.03 |
| 2017-08-09 09:32:47 | 103.74 | 33.28 | 16 | 3.7 | 4.12 |
| 2017-08-12 07:56:39 | 103.86 | 33.11 | 16 | 3.7 | 4.02 |
| 2018-09-05 11:15:21 | 77.05 | 39.54 | 16 | 3.7 | 4 |
| 2013-03-19 11:47:05 | 100.96 | 23.13 | 5 | 3.8 | 4 |
| 2013-05-11 08:50:38 | 102.98 | 30.30 | 19 | 3.8 | 4.18 |
| 2014-01-05 20:21:45 | 102.91 | 30.21 | 18 | 3.8 | 3.98 |
| 2016-05-11 17:01:21 | 100.71 | 31.35 | 16 | 3.8 | 4.26 |
| 2017-08-09 08:10:10 | 103.86 | 33.14 | 17 | 3.8 | 4.4 |
| 2017-11-06 08:34:12 | 103.70 | 31.22 | 20 | 3.8 | 4.08 |
| 2018-09-04 08:25:24 | 77.06 | 39.47 | 9 | 3.8 | 3.9 |
| 2008-05-14 01:41:45 | 103.30 | 31.17 | 18 | 3.8 | 3.68 |
| 2014-10-07 22:38:51 | 100.49 | 23.36 | 6 | 3.9 | 4.23 |
| 2017-04-23 05:26:57 | 103.97 | 31.42 | 18 | 3.9 | 4.09 |
| 2017-06-06 14:04:57 | 103.20 | 31.32 | 17 | 3.9 | 4.08 |
| 2017-08-09 08:29:03 | 103.79 | 33.30 | 18 | 3.9 | 4.37 |
| 2013-04-20 08:31:37 | 103.01 | 30.39 | 12 | 4 | 4.7 |
| 2013-04-20 08:37:13 | 102.93 | 30.18 | 19 | 4 | 4.8 |
| 2013-07-08 07:39:14 | 103.57 | 31.28 | 21 | 4 | 3.91 |
| 2013-08-31 08:13:28 | 99.44 | 28.24 | 20 | 4 | 4.39 |
| 2016-06-23 08:37:34 | 114.19 | 40.96 | 12 | 4 | 3.9 |
| 2020-01-19 21:51:52 | 77.26 | 39.93 | 22 | 4 | 4.27 |
| 2008-05-12 21:07:14 | 103.42 | 31.15 | 19 | 4 | 3.62 |
| 2008-05-13 01:20:52 | 103.17 | 31.00 | 5 | 4 | 3.81 |
| 2008-05-13 09:02:35 | 103.40 | 31.32 | 22 | 4 | 3.71 |
| 2008-05-13 14:35:35 | 104.60 | 32.12 | 21 | 4 | 3.81 |
| 2008-05-13 21:24:03 | 103.98 | 31.55 | 27 | 4 | 3.5 |
| 2008-05-14 00:37:54 | 104.27 | 31.88 | 16 | 4 | 3.56 |
| 2008-05-14 01:24:43 | 105.18 | 32.50 | 24 | 4 | 3.5 |
| 2008-05-14 19:25:25 | 103.45 | 31.37 | 31 | 4 | 3.98 |
| 2008-05-14 23:33:16 | 103.35 | 31.27 | 33 | 4 | 3.76 |
| 2008-05-15 10:05:20 | 103.72 | 31.32 | 30 | 4 | 3.89 |
| 2008-05-15 20:54:12 | 104.93 | 32.32 | 22 | 4 | 3.54 |
| 2008-05-16 17:09:23 | 104.07 | 31.82 | 5 | 4 | 3.74 |
| 2008-05-17 08:54:12 | 103.27 | 31.02 | 25 | 4 | 3.72 |
| 2008-05-17 16:29:38 | 103.37 | 30.95 | 9 | 4 | 3.72 |
| 2008-05-18 00:17:36 | 104.22 | 31.57 | 12 | 4 | 3.65 |
| 2008-05-27 07:01:26 | 103.27 | 31.03 | 23 | 4 | 3.69 |
| 2008-05-28 12:26:20 | 103.83 | 31.38 | 11 | 4 | 3.83 |
| 2008-06-04 19:23:46 | 103.85 | 31.43 | 16 | 4 | 3.92 |
| 2008-06-26 23:20:42 | 104.17 | 31.80 | 37 | 4 | 3.7 |
| 2008-09-11 23:45:09 | 103.98 | 31.63 | 14 | 4 | 3.71 |
| 2020-03-30 16:20:59 | 111.86 | 40.13 | 11 | 4 | 3.9 |
| 2018-09-08 10:35:58 | 101.55 | 23.26 | 8 | 4.1 | 4.8 |
| 2008-05-12 21:18:45 | 103.27 | 31.32 | 5 | 4.1 | 3.81 |
| 2008-05-12 23:52:10 | 103.70 | 31.27 | 32 | 4.1 | 3.87 |
| 2008-05-13 00:50:08 | 103.42 | 31.23 | 32 | 4.1 | 3.84 |
| 2008-05-13 09:07:57 | 103.70 | 31.37 | 26 | 4.1 | 3.72 |
| 2008-05-13 10:28:11 | 103.80 | 31.42 | 15 | 4.1 | 3.85 |
| 2008-05-14 08:53:24 | 103.70 | 31.22 | 37 | 4.1 | 3.61 |
| 2008-05-14 10:07:53 | 103.50 | 31.25 | 39 | 4.1 | 3.79 |
| 2008-05-14 12:26:20 | 104.20 | 31.75 | 21 | 4.1 | 3.78 |
| 2008-05-14 15:39:50 | 103.92 | 31.47 | 16 | 4.1 | 4.19 |
| 2008-05-14 15:55:29 | 105.07 | 32.40 | 21 | 4.1 | 3.71 |
| 2008-05-14 16:57:25 | 103.37 | 30.95 | 14 | 4.1 | 3.77 |
| 2008-05-14 21:16:21 | 103.13 | 31.52 | 25 | 4.1 | 3.78 |
| 2008-05-16 06:47:39 | 103.40 | 31.30 | 15 | 4.1 | 3.99 |
| 2008-06-16 05:42:39 | 103.18 | 31.33 | 26 | 4.1 | 3.75 |
| 2008-06-26 18:36:39 | 103.55 | 31.30 | 2 | 4.1 | 3.78 |
| 2008-07-29 07:52:08 | 102.73 | 27.37 | 12 | 4.1 | 4.13 |
| 2008-08-01 10:41:44 | 103.43 | 31.32 | 10 | 4.1 | 3.86 |
| 2013-04-20 08:06:34 | 102.88 | 30.18 | 10 | 4.2 | 5.2 |
| 2013-08-08 02:51:42 | 103.18 | 31.69 | 21 | 4.2 | 4.25 |
| 2007-10-06 03:01:35 | 104.93 | 28.38 | 13 | 4.2 | 2.89 |
| 2008-01-07 06:09:11 | 74.43 | 39.62 | 23 | 4.2 | 4.67 |
| 2008-05-12 21:32:11 | 103.77 | 31.32 | 15 | 4.2 | 3.82 |
| 2008-05-13 05:34:05 | 103.55 | 31.25 | 18 | 4.2 | 3.98 |
| 2008-05-13 19:10:39 | 104.32 | 31.85 | 10 | 4.2 | 3.68 |
| 2008-05-13 20:03:16 | 105.03 | 32.37 | 24 | 4.2 | 3.88 |
| 2008-05-14 10:17:48 | 104.20 | 31.77 | 44 | 4.2 | 3.83 |
| 2008-05-14 20:27:58 | 104.10 | 31.75 | 34 | 4.2 | 4.14 |
| 2008-05-15 08:50:17 | 103.40 | 31.33 | 27 | 4.2 | 3.98 |
| 2008-05-16 02:42:36 | 104.15 | 31.73 | 21 | 4.2 | 3.85 |
| 2008-05-16 21:21:10 | 104.25 | 31.92 | 26 | 4.2 | 3.7 |
| 2008-05-27 07:22:04 | 103.85 | 31.37 | 24 | 4.2 | 4.15 |
| 2008/6/16 15:36:02 | 103.83 | 31.33 | 17 | 4.2 | 3.8 |
| 2008-06-17 21:40:43 | 104.92 | 32.30 | 25 | 4.2 | 3.87 |
| 2008-06-18 06:43:13 | 103.37 | 31.32 | 1 | 4.2 | 3.82 |
| 2008-06-21 12:03:04 | 104.97 | 32.45 | 17 | 4.2 | 3.68 |
| 2008-08-04 17:19:07 | 103.17 | 31.53 | 1 | 4.2 | 3.71 |
| 2016-09-26 23:48:50 | 99.62 | 30.08 | 13 | 4.3 | 4.4 |
| 2008-05-02 23:56:20 | 101.72 | 27.40 | 5 | 4.3 | 4.52 |
| 2008-05-12 19:45:14 | 104.93 | 32.28 | 39 | 4.3 | 3.96 |
| 2008-05-12 20:29:56 | 103.80 | 31.40 | 10 | 4.3 | 3.96 |
| 2008-05-12 21:02:02 | 103.25 | 31.00 | 2 | 4.3 | 3.85 |
| 2008-05-13 00:28:52 | 103.62 | 31.17 | 20 | 4.3 | 4.21 |
| 2008-05-13 02:44:08 | 103.68 | 31.27 | 18 | 4.3 | 4.31 |
| 2008-05-13 08:54:01 | 105.32 | 32.53 | 15 | 4.3 | 3.83 |
| 2008-05-13 14:11:22 | 103.35 | 31.10 | 34 | 4.3 | 3.8 |
| 2008-05-13 14:39:49 | 103.95 | 31.50 | 18 | 4.3 | 3.92 |
| 2008-05-14 02:10:03 | 104.60 | 32.15 | 3 | 4.3 | 4.01 |
| 2008-05-14 02:13:53 | 103.80 | 31.35 | 25 | 4.3 | 4.02 |
| 2008-05-14 09:51:48 | 104.00 | 31.57 | 24 | 4.3 | 3.79 |
| 2008-05-14 18:11:14 | 104.67 | 32.20 | 5 | 4.3 | 3.75 |
| 2008-05-15 03:59:00 | 103.48 | 31.07 | 19 | 4.3 | 4.12 |
| 2008-05-16 00:06:55 | 105.20 | 32.52 | 24 | 4.3 | 4 |
| 2008-05-17 03:59:08 | 103.53 | 30.82 | 13 | 4.3 | 3.99 |
| 2008-05-18 09:04:58 | 103.58 | 31.07 | 10 | 4.3 | 4.04 |
| 2008-05-20 14:54:20 | 104.20 | 31.78 | 2 | 4.3 | 3.99 |
| 2008-05-27 14:12:41 | 103.88 | 31.37 | 11 | 4.3 | 3.92 |
| 2008-06-05 01:26:42 | 105.05 | 32.33 | 15 | 4.3 | 3.95 |
| 2008-06-22 18:37:34 | 104.43 | 32.23 | 17 | 4.3 | 4.1 |
| 2008-06-27 08:55:41 | 103.37 | 31.05 | 1 | 4.3 | 3.96 |
| 2008-09-01 13:56:49 | 103.63 | 31.23 | 12 | 4.3 | 4.26 |
| 2008-05-12 20:54:56 | 103.45 | 31.30 | 23 | 4.4 | 3.89 |
| 2008-05-12 22:09:43 | 104.30 | 31.90 | 14 | 4.4 | 4.07 |
| 2008-05-13 01:07:51 | 103.57 | 31.25 | 15 | 4.4 | 4.05 |
| 2008-05-13 05:08:12 | 103.17 | 31.27 | 3 | 4.4 | 4.12 |
| 2008-05-13 06:47:19 | 103.35 | 31.27 | 26 | 4.4 | 4.11 |
| 2008-05-14 15:32:16 | 104.10 | 31.82 | 16 | 4.4 | 3.88 |
| 2008-05-15 12:27:29 | 103.70 | 31.30 | 26 | 4.4 | 4.11 |
| 2008-05-15 20:10:23 | 103.78 | 31.38 | 27 | 4.4 | 3.99 |
| 2008-05-16 14:34:36 | 105.13 | 32.47 | 31 | 4.4 | 4.04 |
| 2008-05-17 06:33:08 | 104.98 | 32.30 | 17 | 4.4 | 4.2 |
| 2008-05-17 08:38:07 | 104.13 | 32.02 | 15 | 4.4 | 4.08 |
| 2008-05-17 11:13:16 | 103.47 | 31.28 | 26 | 4.4 | 3.62 |
| 2008-05-18 01:04:39 | 103.32 | 31.38 | 17 | 4.4 | 3.87 |
| 2008-05-20 08:57:36 | 104.02 | 31.68 | 17 | 4.4 | 4.11 |
| 2008-05-22 19:22:24 | 105.42 | 32.68 | 17 | 4.4 | 3.79 |
| 2008-05-24 01:53:32 | 105.18 | 32.53 | 7 | 4.4 | 3.78 |
| 2008-05-31 14:22:41 | 105.02 | 32.40 | 28 | 4.4 | 4.05 |
| 2008-08-31 15:24:51 | 105.58 | 32.75 | 23 | 4.4 | 3.73 |
| 2008-09-22 15:39:25 | 74.23 | 39.85 | 7 | 4.4 | 4.2 |
| 2008-05-12 23:16:56 | 103.25 | 31.07 | 4 | 4.5 | 4.1 |
| 2008-05-13 12:50:21 | 103.48 | 31.32 | 29 | 4.5 | 3.72 |
| 2008-05-13 13:36:29 | 105.13 | 32.52 | 21 | 4.5 | 4.13 |
| 2008-05-13 18:20:14 | 104.27 | 31.78 | 22 | 4.5 | 3.96 |
| 2008-05-14 00:03:55 | 103.67 | 31.25 | 24 | 4.5 | 3.69 |
| 2008-05-14 01:44:05 | 103.60 | 31.30 | 19 | 4.5 | 3.89 |
| 2008-05-14 04:50:30 | 103.42 | 31.12 | 21 | 4.5 | 3.9 |
| 2008-05-15 01:17:21 | 103.83 | 31.45 | 38 | 4.5 | 4.2 |
| 2008-05-16 18:17:13 | 103.48 | 31.23 | 19 | 4.5 | 4.02 |
| 2008-05-17 01:22:20 | 103.67 | 31.22 | 21 | 4.5 | 4.09 |
| 2008-05-17 04:15:21 | 104.87 | 32.30 | 5 | 4.5 | 4.79 |
| 2008-05-17 07:23:06 | 103.68 | 31.30 | 19 | 4.5 | 3.96 |
| 2008-05-21 21:59:06 | 103.85 | 31.40 | 41 | 4.5 | 4.22 |
| 2008-05-25 12:27:04 | 104.52 | 31.97 | 21 | 4.5 | 4.17 |
| 2008-05-27 22:14:00 | 103.42 | 31.30 | 21 | 4.5 | 3.76 |
| 2008-06-01 11:23:57 | 104.00 | 31.62 | 20 | 4.5 | 4.18 |
| 2008-06-02 21:57:21 | 74.85 | 39.58 | 26 | 4.5 | 4 |
| 2008-06-05 05:21:39 | 103.38 | 31.20 | 15 | 4.5 | 4 |
| 2008-06-07 14:28:32 | 105.37 | 32.58 | 6 | 4.5 | 3.96 |
| 2008-10-11 01:39:04 | 73.82 | 39.60 | 5 | 4.5 | 4 |
| 2008-05-12 19:52:21 | 105.22 | 32.58 | 13 | 4.6 | 4.24 |
| 2008-05-12 20:04:38 | 105.20 | 32.55 | 13 | 4.6 | 4.06 |
| 2008-05-13 00:52:55 | 103.50 | 31.12 | 22 | 4.6 | 4.11 |
| 2008-05-13 10:59:32 | 103.32 | 31.00 | 15 | 4.6 | 4.17 |
| 2008-05-14 06:03:30 | 103.62 | 31.25 | 21 | 4.6 | 4.1 |
| 2008-05-15 13:27:46 | 104.35 | 31.97 | 23 | 4.6 | 4.23 |
| 2008-05-17 08:28:59 | 103.92 | 31.50 | 30 | 4.6 | 4 |
| 2008-05-18 08:45:55 | 104.02 | 31.85 | 17 | 4.6 | 4.11 |
| 2008-05-18 20:37:01 | 103.20 | 31.38 | 2 | 4.6 | 3.97 |
| 2008-05-20 12:17:57 | 103.33 | 30.77 | 1 | 4.6 | 4.11 |
| 2008-06-08 06:14:29 | 105.13 | 32.53 | 2 | 4.6 | 4.48 |
| 2008-06-19 10:55:28 | 103.43 | 31.18 | 19 | 4.6 | 4.19 |
| 2008-06-19 18:25:57 | 105.48 | 32.78 | 60 | 4.6 | 4.17 |
| 2008-06-29 07:55:20 | 104.52 | 32.10 | 17 | 4.6 | 4.06 |
| 2008-08-02 21:25:45 | 105.58 | 32.77 | 22 | 4.6 | 3.87 |
| 2008-10-18 17:28:58 | 73.67 | 39.47 | 3 | 4.6 | 4.5 |
| 2008-05-12 19:33:17 | 105.33 | 32.55 | 25 | 4.7 | 4.57 |
| 2008-05-12 20:23:25 | 105.32 | 32.58 | 6 | 4.7 | 4.16 |
| 2008-05-13 02:46:09 | 105.00 | 32.35 | 22 | 4.7 | 4.08 |
| 2008-05-13 08:22:16 | 103.78 | 31.30 | 31 | 4.7 | 4.09 |
| 2008-05-13 10:33:38 | 103.53 | 31.23 | 23 | 4.7 | 3.9 |
| 2008-05-13 14:38:16 | 103.75 | 31.38 | 32 | 4.7 | 4.02 |
| 2008-05-13 18:36:40 | 103.63 | 31.25 | 27 | 4.7 | 4.17 |
| 2008-05-13 21:13:03 | 105.25 | 32.57 | 21 | 4.7 | 4.11 |
| 2008-05-13 21:31:33 | 105.02 | 32.28 | 23 | 4.7 | 4.36 |
| 2008-05-13 23:10:31 | 105.43 | 32.62 | 8 | 4.7 | 3.88 |
| 2008-05-15 01:33:22 | 103.45 | 31.32 | 26 | 4.7 | 4.37 |
| 2008-05-15 21:04:05 | 105.53 | 32.75 | 25 | 4.7 | 4.21 |
| 2008-05-17 04:29:03 | 103.33 | 31.33 | 27 | 4.7 | 4.15 |
| 2008-05-17 21:32:12 | 104.62 | 32.13 | 18 | 4.7 | 4.39 |
| 2008-05-19 12:08:57 | 105.02 | 32.18 | 19 | 4.7 | 4.55 |
| 2008-05-21 23:29:54 | 105.05 | 32.40 | 21 | 4.7 | 4.19 |
| 2008-05-23 08:05:04 | 103.57 | 31.17 | 21 | 4.7 | 4.48 |
| 2008-05-29 12:48:44 | 105.37 | 32.62 | 20 | 4.7 | 4.2 |
| 2008-05-29 15:10:19 | 103.70 | 31.35 | 25 | 4.7 | 4.23 |
| 2008-06-06 22:38:46 | 103.30 | 31.12 | 24 | 4.7 | 3.91 |
| 2008-06-17 13:51:41 | 105.52 | 32.80 | 1 | 4.7 | 4.13 |
| 2008-08-06 11:42:25 | 105.45 | 32.68 | 25 | 4.7 | 3.98 |
| 2008-08-06 12:47:05 | 105.45 | 32.82 | 13 | 4.7 | 4.05 |
| 2008-08-08 21:12:18 | 103.87 | 31.48 | 22 | 4.7 | 3.84 |
| 2008-09-11 18:30:21 | 103.65 | 31.30 | 21 | 4.7 | 4.06 |



**[Figure S1](file:///H:\\WHW-20171125\\00%20Earthquake%20recordings\\00%20Recordings%20in%20China\\Yunnan%20Temporary%20Records\\GMM%20for%20near-source%20recordings%20from%20small%20earthquakes%20in%20Yunnan\\01%20初修改\\Table1.mht).** *M*W versus *M*L for the 400 earthquakes in Western China, and linear fit between *M*W and *M*L.