

# 中国地震台站观测报告

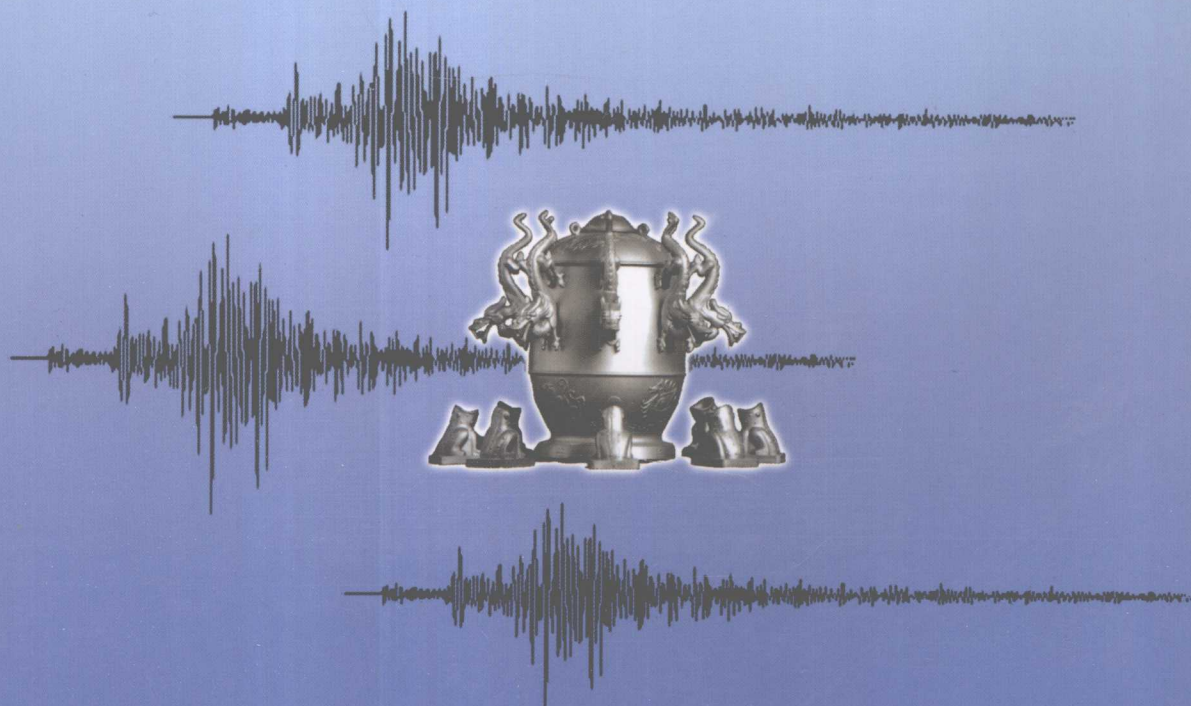
## Seismological Report of Chinese Seismic Stations

2005 年

(一)

中国地震台网中心

China Earthquake Networks Center



地震出版社

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中国地震台网中心 编

China Earthquake Networks Center

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# 中国地震台站观测报告 汇编工作人员

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## 前 言

1. 《中国地震台站观测报告》自 1979 年开始出版。
2. 本报告使用协调世界时 UTC。为方便中国读者使用, 目录部分同时给出北京时间 BTC。
3. 测定震源位置主要使用 J-B 走时表。
4. 面波震级  $M_{S7}$  是由数字地震记录仿真成 763 长周期地震仪记录, 采用 IASPEI 推荐的面波公式:

$$M_{S7} = \log(A_V/T) + 1.66 \log(\Delta) + 3.3 \quad (20^\circ < \Delta < 160^\circ)$$

求得, 式中  $A_V$  是垂直向面波最大地动位移 (LZ)。

面波震级  $M_S$ , 是由数字地震记录仿真成中周期宽频带 SK 或 DK-1 地震仪记录, 采用北京台 1965 年的面波震级公式:

$$M_S = \log(A_H/T) + 1.66 \log(\Delta) + 3.5 \quad (1^\circ < \Delta < 130^\circ)$$

求得, 式中  $A_H$  是两个水平分向最大面波位移 (LN, LE) 的矢量合成位移。

5. 体波震级  $m_B$  和  $m_b$  采用古登堡-里克特公式测定:

$$m_B \text{ 或 } m_b = \log(A/T) + Q(\Delta, h)$$

式中  $m_B$  是由数字地震记录仿真 SK 仪或 763 长周期地震仪测定;  $m_b$  用短周期地震仪测定。

6. 为避免混乱, 震级之间一律不换算。

## Preface

1. This report is issued beginning from 1979.
2. All times are in Coordinated Universal Time (UTC). For the convenience of Chinese readers, the Beijing time (BTC) is also given in the catalogue of events.
3. The J-B tables are mainly used in determination of hypocenters.
4. The surface-wave magnitude  $M_{S7}$  is computed from the imitation records of 763 long-period seismographs by employing the formula recommended by IASPEI:

$$M_{S7} = \log(A_V/T) + 1.66 \log(\Delta) + 3.3 \quad (20^\circ < \Delta < 160^\circ)$$

where  $A_V$  is the maximum vertical surface-wave displacement (LZ).

The surface-wave magnitude  $M_S$  is computed from the imitation records of broad-band intermediate seismographs (SK OR DK-1) by employing the 1965 formula of Beijing Station:

$$M_S = \log(A_H/T) + 1.66 \log(\Delta) + 3.5 \quad (1^\circ < \Delta < 130^\circ)$$

where  $A_H$  is resultant horizontal displacement (LN, LE).

5. Body-wave magnitudes  $m_B$  and  $m_b$  are computed from the Gutenberg-Richter formula:

$$m_B \text{ or } m_b = \log(A/T) + Q(\Delta, h)$$

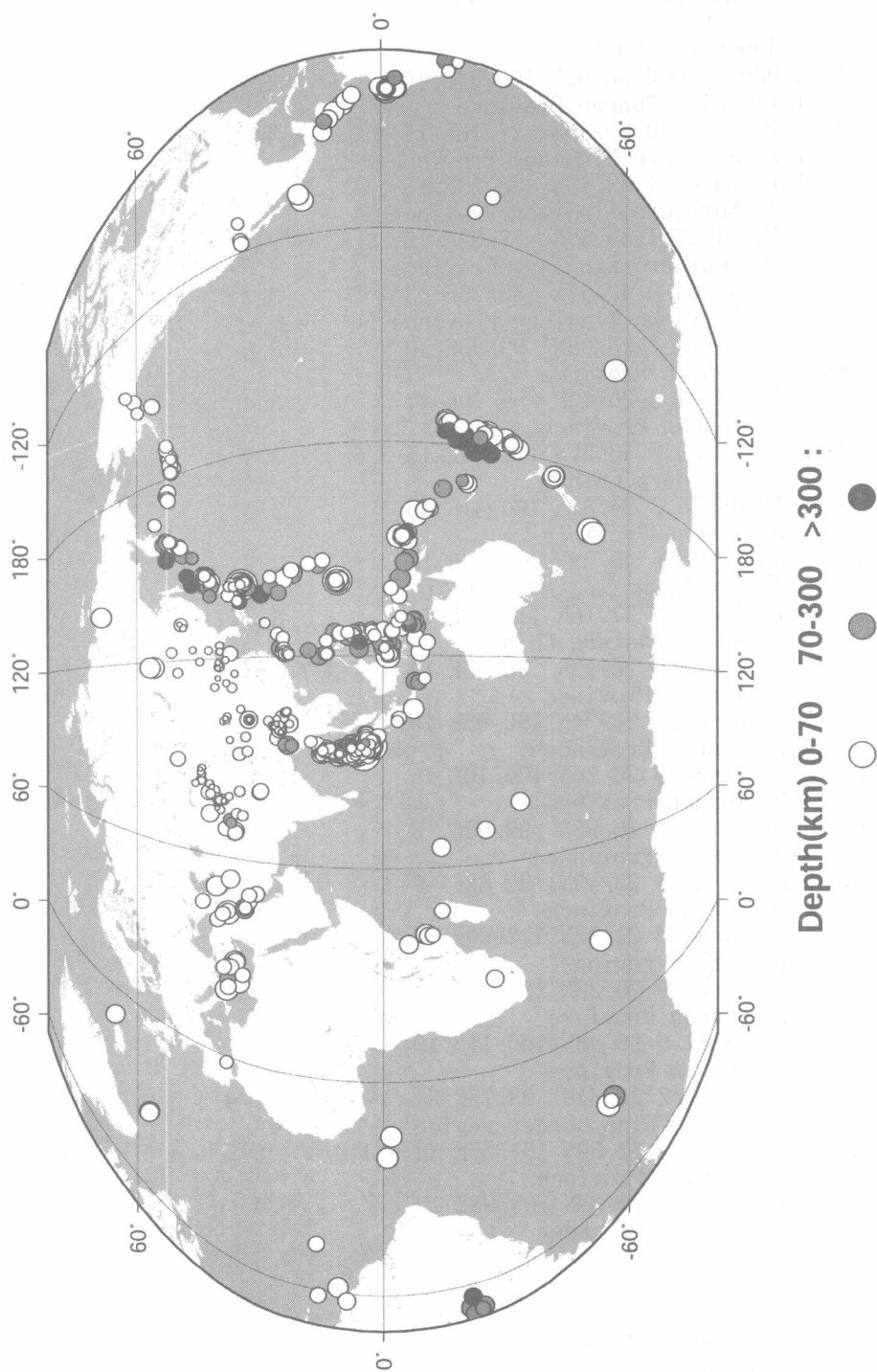
where  $m_B$  is from the imitation records of SK broad-band intermediate or 763 long period seismographs and  $m_b$  is from the imitation records of short period ones.

6. In order to avoid confusion, magnitudes are given with no conversion.

## LIST OF THE SEISMOLOGICAL STATIONS

| No. | STATION    | CODE | LAT.N  | LON.E   | ALTITUDE<br>m | FOUNDATION       | INSTRUMENTS |
|-----|------------|------|--------|---------|---------------|------------------|-------------|
| 1   | BAOTOU     | BTO  | 40.603 | 110.020 | 1120.0        | GRANITE GNEISS   | FBS-3       |
| 2   | BEIJING    | BJI  | 40.018 | 116.170 | 197.5         | GRAVEL SOIL      | STS-2       |
| 3   | CHANGCHUN  | CN2  | 43.801 | 125.448 | 223.0         | SLATE            | CTS-1       |
| 4   | CHENGDU    | CD2  | 30.910 | 103.758 | 628.0         | CONGLOMERATE     | JCZ-1       |
| 5   | DALIAN     | DL2  | 38.906 | 121.628 | 62.0          | SILICILITH       | CTS-1       |
| 6   | GAOTAI     | GTA  | 39.411 | 99.814  | 1341.0        | GRANITE          | JCZ-1       |
| 7   | GUANGZHOU  | GZH  | 23.092 | 113.341 | 11.0          | SANDSTONE        | JCZ-1       |
| 8   | GUIYANG    | GYA  | 26.459 | 106.664 | 1162.0        | DOLOMITE         | CTS-1       |
| 9   | HOHHOT     | HHC  | 40.849 | 111.564 | 1169.0        | RHYOLITE         | JCZ-1       |
| 10  | KASHI      | KSH  | 39.517 | 75.923  | 1314.0        | ALLUVIAL CLAY    | CTS-1       |
| 11  | KUNMING    | KMI  | 25.148 | 102.747 | 1952.0        | SANDSTONE        | STS-2       |
| 12  | LANZHOU    | LZN  | 36.087 | 103.844 | 1560.0        | LEHM             | CTS-1       |
| 13  | LHASA      | LSA  | 29.700 | 91.150  | 3658.0        | GRANITE          | STS-2       |
| 14  | MUDANJIANG | MDJ  | 44.616 | 129.592 | 250.0         | GRANITE          | STS-2       |
| 15  | NANJING    | NJ2  | 32.052 | 118.854 | 45.0          | SILICARENITE     | CST-1       |
| 16  | QUANZHOU   | QZH  | 24.943 | 118.592 | 21.0          | GRANITE          | CTS-1       |
| 17  | QIONGZHONG | QZN  | 19.029 | 109.844 | 230.0         | GRANITE          | STS-2       |
| 18  | SHENYANG   | SNY  | 41.828 | 123.578 | 54.0          | GRANITE          | JCZ-1       |
| 19  | SHESHAN    | SSE  | 31.096 | 121.187 | 10.0          | ANDESITE         | STS-2       |
| 20  | TAIAN      | TIA  | 36.211 | 117.124 | 300.0         | AMPHIBOLE RANITE | JCZ-1       |
| 21  | TAIYUAN    | TTY  | 37.713 | 112.434 | 850           | LIMESTONE        | CTS-1       |
| 22  | URUMQI     | WMQ  | 43.814 | 87.705  | 901.3         | SANDSTONE        | STS-2       |
| 23  | WUHAN      | WHN  | 30.544 | 114.350 | 26.0          | SILICARENITE     | JCZ-1       |
| 24  | XI'AN      | XAN  | 34.039 | 108.921 | 630.0         | GRANITE          | STS-2       |

一 月  
January



| CATALOGUE OF EVENTS WITHIN AND NEAR CHINA |             |            |                            |         |             |      |             |            |     |     |     |     |                | SD NO.<br>STA.<br>USED |
|-------------------------------------------|-------------|------------|----------------------------|---------|-------------|------|-------------|------------|-----|-----|-----|-----|----------------|------------------------|
| NO                                        | ORIGIN TIME |            |                            |         | GEOGRAPHIC  |      | DEPTH<br>km | MAGNITUDES |     |     |     |     |                |                        |
|                                           | UTC         |            |                            |         | COORDINATES |      |             | Ms         | Ms7 | ML  | mB  | mb  | Ms7 mb<br>NEIC |                        |
|                                           | DAY         | HR         | MN                         | SEC     | LAT         | LONG |             |            |     |     |     |     |                |                        |
| January 2005                              |             |            |                            |         |             |      |             |            |     |     |     |     |                |                        |
| 1                                         | 1           | 03-15-40.2 | 26.92N                     | 100.31E | 10          |      |             |            |     | 2.9 |     |     |                | 2.6 6                  |
|                                           | 1           | 11 (BTC)   | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 2                                         | 1           | 12-11-23.0 | 39.49N                     | 77.10E  | 19          | 4.3  | 3.9         | 4.7        | 5.0 | 4.5 |     |     |                | 2.5 18                 |
|                                           | 1           | 20         | Southern Xinjiang Province |         |             |      |             |            |     |     |     |     |                |                        |
| 3                                         | 1           | 12-15-07.4 | 43.75N                     | 86.23E  | 15          |      |             |            |     | 3.6 |     |     |                | 1.7 5                  |
|                                           | 1           | 20         | Northern Xinjiang Province |         |             |      |             |            |     |     |     |     |                |                        |
| 4                                         | 1           | 12-24-23.1 | 39.52N                     | 77.03E  | 15          |      |             |            |     | 3.4 |     |     |                | 2.3 5                  |
|                                           | 1           | 20         | Southern Xinjiang Province |         |             |      |             |            |     |     |     |     |                |                        |
| 5                                         | 1           | 22-50-04.0 | 43.97N                     | 85.16E  | 13          |      |             |            |     | 3.3 |     |     |                | 1.3 7                  |
|                                           | 2           | 06         | Northern Xinjiang Province |         |             |      |             |            |     |     |     |     |                |                        |
| 6                                         | 2           | 07-12-13.7 | 26.02N                     | 99.92E  | 10          |      |             |            |     | 3.6 |     |     |                | 4.2 8                  |
|                                           | 2           | 15         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 7                                         | 2           | 10-00-04.5 | 26.13N                     | 99.79E  | 7           |      |             |            |     | 3.4 |     |     |                | 3.7 7                  |
|                                           | 2           | 18         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 8                                         | 2           | 15-07-30.6 | 40.57N                     | 111.34E | 15          | 3.6  | 3.1         | 3.4        |     |     |     |     |                | 1.9 10                 |
|                                           | 2           | 23         | Northern China             |         |             |      |             |            |     |     |     |     |                |                        |
| 9                                         | 2           | 18-08-25.3 | 24.83N                     | 100.41E | 19          |      |             |            |     | 3.5 |     |     |                | 4.1 5                  |
|                                           | 3           | 02         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 10                                        | 3           | 06-30-46.6 | 40.69N                     | 79.62E  | 15          |      |             |            |     | 3.9 |     | 4.2 |                | 3.4 13                 |
|                                           | 3           | 14         | Southern Xinjiang Province |         |             |      |             |            |     |     |     |     |                |                        |
| 11                                        | 3           | 14-15-41.8 | 37.76N                     | 112.56E | 14          |      |             |            |     | 3.3 |     |     |                | 2.1 7                  |
|                                           | 3           | 22         | North-Eastern China        |         |             |      |             |            |     |     |     |     |                |                        |
| 12                                        | 3           | 20-09-50.4 | 26.42N                     | 99.96E  | 14          | 3.8  | 3.7         | 3.8        |     |     | 3.9 |     |                | 2.9 15                 |
|                                           | 4           | 04         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 13                                        | 3           | 21-03-06.3 | 26.34N                     | 100.05E | 19          |      |             |            |     | 3.0 |     |     |                | 1.6 7                  |
|                                           | 4           | 05         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 14                                        | 3           | 21-15-35.3 | 26.26N                     | 100.10E | 15          |      |             |            |     | 3.1 |     |     |                | 2.5 8                  |
|                                           | 4           | 05         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 15                                        | 3           | 21-45-20.4 | 26.28N                     | 99.96E  | 8           |      |             |            |     | 3.2 |     |     |                | 3.1 9                  |
|                                           | 4           | 05         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 16                                        | 3           | 22-11-23.1 | 26.43N                     | 99.82E  | 9           |      |             |            |     | 3.4 |     |     |                | 3.5 11                 |
|                                           | 4           | 06         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 17                                        | 4           | 02-24-47.8 | 23.92N                     | 122.50E | 32          | 4.2  | 4.0         | 3.9        | 4.8 | 4.1 |     |     |                | 1.5 10                 |
|                                           | 4           | 10         | Taiwan region              |         |             |      |             |            |     |     |     |     |                |                        |
| 18                                        | 4           | 04-52-39.9 | 26.33N                     | 100.05E | 10          |      |             |            |     | 3.0 |     |     |                | 2.7 5                  |
|                                           | 4           | 12         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 19                                        | 4           | 04-55-21.6 | 26.46N                     | 100.11E | 19          |      |             |            |     | 2.8 |     |     |                | 3.3 5                  |
|                                           | 4           | 12         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 20                                        | 4           | 08-49-39.2 | 24.84N                     | 98.75E  | 24          |      |             |            |     | 4.1 | 4.5 | 3.9 |                | 2.6 17                 |
|                                           | 4           | 16         | Burma-China border region  |         |             |      |             |            |     |     |     |     |                |                        |
| 21                                        | 4           | 22-05-21.9 | 32.39N                     | 101.66E | 32          | 5.1  | 4.8         | 4.8        | 5.1 | 4.5 |     |     | 4.8            | 2.3 67                 |
|                                           | 5           | 06         | Sichuan Province           |         |             |      |             |            |     |     |     |     |                |                        |
| 22                                        | 6           | 01-21-39.2 | 26.38N                     | 99.98E  | 13          |      |             |            |     | 3.4 |     |     |                | 3.6 6                  |
|                                           | 6           | 09         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 23                                        | 6           | 14-19-46.0 | 25.46N                     | 96.52E  | 37          | 4.7  | 4.5         | 4.4        | 4.9 | 4.6 |     |     | 4.7            | 2.0 56                 |
|                                           | 6           | 22         | Burma                      |         |             |      |             |            |     |     |     |     |                |                        |
| 24                                        | 7           | 15-50-10.3 | 25.07N                     | 98.83E  | 32          | 4.6  | 4.0         | 4.9        | 4.7 | 4.5 |     |     | 4.7            | 2.5 46                 |
|                                           | 7           | 23         | Burma-China border region  |         |             |      |             |            |     |     |     |     |                |                        |
| 25                                        | 7           | 17-51-31.1 | 25.21N                     | 98.71E  | 15          |      |             |            |     | 3.1 |     |     |                | 2.6 5                  |
|                                           | 8           | 01         | Burma-China border region  |         |             |      |             |            |     |     |     |     |                |                        |
| 26                                        | 7           | 18-00-52.3 | 27.60N                     | 101.37E | 43          | 3.8  | 4.2         | 3.7        | 4.4 | 4.3 |     |     | 4.3            | 2.7 26                 |
|                                           | 8           | 02         | Yunnan Province            |         |             |      |             |            |     |     |     |     |                |                        |
| 27                                        | 8           | 07-53-23.7 | 32.17N                     | 101.71E | 8           | 3.4  | 3.3         | 3.2        |     |     |     |     |                | 3.5 5                  |
|                                           | 8           | 15         | Sichuan Province           |         |             |      |             |            |     |     |     |     |                |                        |

| CATALOGUE OF EVENTS WITHIN AND NEAR CHINA |             |    |    |      |                                    |         |             |            |     |     |     |     |                |     | SD NO.<br>STA.<br>USED |
|-------------------------------------------|-------------|----|----|------|------------------------------------|---------|-------------|------------|-----|-----|-----|-----|----------------|-----|------------------------|
| NO                                        | ORIGIN TIME |    |    |      | GEOGRAPHIC                         |         | DEPTH<br>km | MAGNITUDES |     |     |     |     | Msz mb<br>NEIC |     |                        |
|                                           | UTC         |    |    |      | COORDINATES                        |         |             | Ms         | Ms7 | ML  | mB  | mb  |                |     |                        |
|                                           | DAY         | HR | MN | SEC  | LAT                                | LONG    |             | CHINA      |     |     |     |     |                |     |                        |
| January 2005                              |             |    |    |      |                                    |         |             |            |     |     |     |     |                |     |                        |
| 28                                        | 8           | 14 | 53 | 08.6 | 26.28N                             | 100.07E | 15          |            |     | 2.9 |     |     |                |     | 1.9 6                  |
|                                           | 8           | 22 |    |      | Yunnan Province                    |         |             |            |     |     |     |     |                |     |                        |
| 29                                        | 8           | 20 | 22 | 18.3 | 34.57N                             | 91.46E  | 53          | 4.4        | 4.1 | 3.8 | 4.9 | 4.2 |                | 4.2 | 2.5 33                 |
|                                           | 9           | 04 |    |      | Qinghai Province                   |         |             |            |     |     |     |     |                |     |                        |
| 30                                        | 8           | 20 | 24 | 28.1 | 26.20N                             | 99.80E  | 15          |            |     | 2.8 |     |     |                |     | 3.6 5                  |
|                                           | 9           | 04 |    |      | Yunnan Province                    |         |             |            |     |     |     |     |                |     |                        |
| 31                                        | 9           | 11 | 48 | 21.3 | 26.20N                             | 99.84E  | 14          |            |     | 3.2 |     |     |                |     | 2.0 7                  |
|                                           | 9           | 19 |    |      | Yunnan Province                    |         |             |            |     |     |     |     |                |     |                        |
| 32                                        | 9           | 15 | 15 | 15.3 | 25.23N                             | 98.66E  | 13          |            |     | 3.1 |     |     |                |     | 1.1 5                  |
|                                           | 9           | 23 |    |      | Burma-China border region          |         |             |            |     |     |     |     |                |     |                        |
| 33                                        | 10          | 01 | 44 | 05.8 | 26.44N                             | 99.96E  | 15          |            |     | 3.1 |     |     |                |     | 4.0 9                  |
|                                           | 10          | 09 |    |      | Yunnan Province                    |         |             |            |     |     |     |     |                |     |                        |
| 34                                        | 10          | 08 | 19 | 03.3 | 42.04N                             | 122.61E | 24          |            |     | 3.4 |     |     |                |     | 3.5 9                  |
|                                           | 10          | 16 |    |      | North-Eastern China                |         |             |            |     |     |     |     |                |     |                        |
| 35                                        | 11          | 00 | 58 | 21.0 | 23.69N                             | 121.55E | 18          | 4.2        | 3.8 | 4.8 | 4.4 | 4.4 |                | 4.4 | 1.9 34                 |
|                                           | 11          | 08 |    |      | Taiwan                             |         |             |            |     |     |     |     |                |     |                        |
| 36                                        | 11          | 01 | 24 | 23.9 | 36.36N                             | 111.16E | 10          | 3.7        | 3.9 | 3.6 |     |     |                | 4.1 | 3.0 13                 |
|                                           | 11          | 09 |    |      | Eastern China                      |         |             |            |     |     |     |     |                |     |                        |
| 37                                        | 11          | 09 | 28 | 27.2 | 32.09N                             | 101.54E | 14          |            |     | 3.1 |     |     |                |     | 2.3 10                 |
|                                           | 11          | 17 |    |      | Sichuan Province                   |         |             |            |     |     |     |     |                |     |                        |
| 38                                        | 12          | 03 | 53 | 18.3 | 41.62N                             | 78.54E  | 3           |            |     | 3.7 |     |     |                |     | 2.4 7                  |
|                                           | 12          | 11 |    |      | Kirgiziya-Xinjiang border region   |         |             |            |     |     |     |     |                |     |                        |
| 39                                        | 12          | 11 | 35 | 51.8 | 32.27N                             | 101.66E | 15          | 4.0        | 3.5 | 3.7 |     | 3.5 |                |     | 2.8 20                 |
|                                           | 12          | 19 |    |      | Sichuan Province                   |         |             |            |     |     |     |     |                |     |                        |
| 40                                        | 12          | 13 | 30 | 42.2 | 23.67N                             | 120.81E | 34          | 4.2        | 4.0 | 4.4 | 4.5 | 4.5 |                | 4.2 | 2.7 14                 |
|                                           | 12          | 21 |    |      | Taiwan                             |         |             |            |     |     |     |     |                |     |                        |
| 41                                        | 13          | 16 | 11 | 46.5 | 39.50N                             | 117.58E | 17          |            |     | 3.7 |     |     |                |     | 2.2 16                 |
|                                           | 14          | 00 |    |      | North-Eastern China                |         |             |            |     |     |     |     |                |     |                        |
| 42                                        | 14          | 19 | 17 | 17.7 | 37.79N                             | 101.49E | 15          |            |     | 3.1 |     |     |                |     | 4.1 6                  |
|                                           | 15          | 03 |    |      | Qinghai Province                   |         |             |            |     |     |     |     |                |     |                        |
| 43                                        | 15          | 02 | 54 | 50.5 | 48.87N                             | 131.45E | 16          |            |     | 4.4 |     |     |                |     | 2.6 12                 |
|                                           | 15          | 10 |    |      | E. Russia-N.E. China border region |         |             |            |     |     |     |     |                |     |                        |
| 44                                        | 15          | 05 | 02 | 32.7 | 24.89N                             | 122.43E | 112         |            |     |     | 4.8 | 4.2 |                | 4.0 | 1.5 9                  |
|                                           | 15          | 13 |    |      | Taiwan                             |         |             |            |     |     |     |     |                |     |                        |
| 45                                        | 15          | 12 | 06 | 09.9 | 39.83N                             | 113.99E | 18          |            |     | 2.9 |     |     |                |     | 2.4 7                  |
|                                           | 15          | 20 |    |      | North-Eastern China                |         |             |            |     |     |     |     |                |     |                        |
| 46                                        | 15          | 12 | 10 | 07.9 | 25.55N                             | 102.07E | 5           |            |     | 3.2 |     |     |                |     | 2.9 7                  |
|                                           | 15          | 20 |    |      | Yunnan Province                    |         |             |            |     |     |     |     |                |     |                        |
| 47                                        | 16          | 11 | 06 | 15.3 | 25.72N                             | 100.69E | 10          |            |     | 2.8 |     |     |                |     | 4.2 5                  |
|                                           | 16          | 19 |    |      | Yunnan Province                    |         |             |            |     |     |     |     |                |     |                        |
| 48                                        | 16          | 13 | 53 | 14.5 | 32.72N                             | 92.31E  | 59          | 4.0        | 3.7 | 4.4 | 4.7 | 4.6 |                | 4.1 | 2.5 27                 |
|                                           | 16          | 21 |    |      | Tibet                              |         |             |            |     |     |     |     |                |     |                        |
| 49                                        | 16          | 18 | 03 | 44.1 | 36.97N                             | 95.48E  | 15          |            |     | 3.3 |     |     |                |     | 2.2 7                  |
|                                           | 17          | 02 |    |      | Qinghai Province                   |         |             |            |     |     |     |     |                |     |                        |
| 50                                        | 17          | 00 | 49 | 35.5 | 34.56N                             | 80.29E  | 49          |            |     | 3.9 |     | 3.9 |                | 4.4 | 2.2 12                 |
|                                           | 17          | 08 |    |      | Kashmir-Tibet border region        |         |             |            |     |     |     |     |                |     |                        |
| 51                                        | 17          | 21 | 22 | 40.8 | 38.52N                             | 101.12E | 23          | 3.1        | 3.1 | 3.1 |     |     |                |     | 3.0 7                  |
|                                           | 18          | 05 |    |      | Gansu Province                     |         |             |            |     |     |     |     |                |     |                        |
| 52                                        | 18          | 04 | 09 | 17.7 | 36.82N                             | 121.46E | 27          | 4.7        | 4.2 | 4.4 |     | 4.2 |                | 4.3 | 2.5 28                 |
|                                           | 18          | 12 |    |      | Eastern China                      |         |             |            |     |     |     |     |                |     |                        |
| 53                                        | 18          | 10 | 11 | 43.7 | 37.13N                             | 78.38E  | 15          |            |     | 3.5 |     |     |                |     | 3.2 8                  |
|                                           | 18          | 18 |    |      | Kashmir-Xinjiang border region     |         |             |            |     |     |     |     |                |     |                        |
| 54                                        | 18          | 16 | 56 | 39.4 | 34.21N                             | 104.83E | 15          | 3.6        |     | 3.7 | 4.8 | 4.1 |                |     | 2.5 19                 |
|                                           | 19          | 00 |    |      | Gansu Province                     |         |             |            |     |     |     |     |                |     |                        |

| CATALOGUE OF EVENTS WITHIN AND NEAR CHINA |             |            |                                     |         |             |      |             |            |     |     |     |     |                | SD NO.<br>STA.<br>USED |       |
|-------------------------------------------|-------------|------------|-------------------------------------|---------|-------------|------|-------------|------------|-----|-----|-----|-----|----------------|------------------------|-------|
| NO                                        | ORIGIN TIME |            |                                     |         | GEOGRAPHIC  |      | DEPTH<br>km | MAGNITUDES |     |     |     |     |                |                        |       |
|                                           | UTC         |            |                                     |         | COORDINATES |      |             | Ms         | Ms7 | ML  | mB  | mb  | Ms2 mb<br>NEIC |                        |       |
|                                           |             |            |                                     |         |             |      |             |            |     |     |     |     |                |                        |       |
|                                           | DAY         | HR         | MN                                  | SEC     | LAT         | LONG |             |            |     |     |     |     |                |                        | CHINA |
| January 2005                              |             |            |                                     |         |             |      |             |            |     |     |     |     |                |                        |       |
| 55                                        | 18          | 20-28-06.9 | 38.39N                              | 76.88E  | 13          |      |             |            | 3.0 |     |     |     |                | 4.8                    | 5     |
|                                           | 19          | 04         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                |                        |       |
| 56                                        | 19          | 06-28-17.2 | 41.89N                              | 79.14E  | 26          | 4.8  | 4.8         | 5.6        | 4.8 | 4.9 |     | 5.1 | 2.5            | 35                     |       |
|                                           | 19          | 14         | Kirgiziya-Xinjiang border region    |         |             |      |             |            |     |     |     |     |                |                        |       |
| 57                                        | 20          | 07-47-16.3 | 23.74N                              | 120.76E | 13          | 4.7  | 4.6         | 5.4        | 4.8 | 4.5 |     | 4.8 | 2.2            | 62                     |       |
|                                           | 20          | 15         | Taiwan                              |         |             |      |             |            |     |     |     |     |                |                        |       |
| 58                                        | 20          | 13-14-28.8 | 22.68N                              | 120.74E | 32          | 3.9  | 3.6         | 4.1        | 4.6 | 4.1 |     | 4.4 | 1.6            | 28                     |       |
|                                           | 20          | 21         | Taiwan                              |         |             |      |             |            |     |     |     |     |                |                        |       |
| 59                                        | 20          | 19-11-04.7 | 45.95N                              | 123.03E | 26          |      |             |            | 3.1 |     |     |     |                | 2.5                    | 8     |
|                                           | 21          | 03         | North-Eastern China                 |         |             |      |             |            |     |     |     |     |                |                        |       |
| 60                                        | 21          | 14-28-21.2 | 24.65N                              | 122.44E | 102         |      |             |            |     | 5.2 | 5.2 |     | 5.2            | 1.4                    | 80    |
|                                           | 21          | 22         | Taiwan                              |         |             |      |             |            |     |     |     |     |                |                        |       |
| 61                                        | 22          | 06-54-48.3 | 22.93N                              | 121.09E | 10          | 4.2  | 3.9         | 3.7        | 4.6 | 4.3 |     | 4.3 | 2.7            | 6                      |       |
|                                           | 22          | 14         | Taiwan                              |         |             |      |             |            |     |     |     |     |                |                        |       |
| 62                                        | 22          | 06-56-45.5 | 24.33N                              | 122.38E | 26          | 4.2  | 4.2         | 4.8        | 4.5 | 4.4 |     | 4.5 | 2.3            | 34                     |       |
|                                           | 22          | 14         | Taiwan                              |         |             |      |             |            |     |     |     |     |                |                        |       |
| 63                                        | 22          | 08-11-39.4 | 39.77N                              | 118.81E | 13          |      |             |            | 3.0 |     |     |     |                | 2.4                    | 8     |
|                                           | 22          | 16         | North-Eastern China                 |         |             |      |             |            |     |     |     |     |                |                        |       |
| 64                                        | 22          | 08-17-36.5 | 39.16N                              | 74.03E  | 25          |      |             |            | 3.5 |     |     |     |                | 2.7                    | 5     |
|                                           | 22          | 16         | Tadzhikistan-Xinjiang border region |         |             |      |             |            |     |     |     |     |                |                        |       |
| 65                                        | 22          | 14-55-54.2 | 37.60N                              | 102.40E | 12          |      |             |            | 3.6 |     |     |     |                | 3.5                    | 9     |
|                                           | 22          | 22         | Qinghai Province                    |         |             |      |             |            |     |     |     |     |                |                        |       |
| 66                                        | 22          | 23-41-21.3 | 38.03N                              | 119.50E | 26          |      |             |            | 3.3 |     |     |     |                | 2.6                    | 7     |
|                                           | 23          | 07         | North-Eastern China                 |         |             |      |             |            |     |     |     |     |                |                        |       |
| 67                                        | 23          | 05-58-24.1 | 23.22N                              | 104.18E | 32          |      |             |            | 3.4 |     |     |     |                | 2.6                    | 5     |
|                                           | 23          | 13         | Yunnan Province                     |         |             |      |             |            |     |     |     |     |                |                        |       |
| 68                                        | 23          | 09-41-01.1 | 38.03N                              | 101.90E | 16          |      |             |            | 2.8 |     |     |     |                | 3.3                    | 5     |
|                                           | 23          | 17         | Qinghai Province                    |         |             |      |             |            |     |     |     |     |                |                        |       |
| 69                                        | 24          | 01-18-12.8 | 44.06N                              | 85.85E  | 15          |      |             |            | 2.5 |     |     |     |                | 1.7                    | 5     |
|                                           | 24          | 09         | Northern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                |                        |       |
| 70                                        | 24          | 12-22-51.2 | 51.12N                              | 122.72E | 10          | 4.1  | 3.9         | 5.0        | 4.1 | 4.4 |     | 4.5 | 3.2            | 22                     |       |
|                                           | 24          | 20         | North-Eastern China                 |         |             |      |             |            |     |     |     |     |                |                        |       |
| 71                                        | 24          | 14-35-43.2 | 39.48N                              | 77.06E  | 13          |      |             |            | 3.7 |     |     |     |                | 2.5                    | 5     |
|                                           | 24          | 22         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                |                        |       |
| 72                                        | 24          | 16-17-19.0 | 40.02N                              | 77.73E  | 10          |      |             |            | 3.8 | 4.6 | 3.4 |     | 3.7            | 2.6                    | 13    |
|                                           | 25          | 00         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                |                        |       |
| 73                                        | 24          | 19-20-48.1 | 33.07N                              | 96.62E  | 25          | 3.8  | 3.4         | 4.0        |     | 4.3 |     | 3.7 | 2.6            | 19                     |       |
|                                           | 25          | 03         | Qinghai Province                    |         |             |      |             |            |     |     |     |     |                |                        |       |
| 74                                        | 25          | 14-34-22.2 | 38.45N                              | 77.25E  | 15          |      |             |            | 4.1 |     | 4.4 |     |                | 3.3                    | 10    |
|                                           | 25          | 22         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                |                        |       |
| 75                                        | 25          | 15-28-49.3 | 39.95N                              | 74.51E  | 15          |      |             |            | 2.5 |     |     |     |                | 4.4                    | 5     |
|                                           | 25          | 23         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                |                        |       |
| 76                                        | 25          | 16-30-37.3 | 22.68N                              | 100.83E | 3           | 5.2  | 4.9         | 4.8        | 5.0 | 4.6 |     | 4.8 | 2.0            | 61                     |       |
|                                           | 26          | 00         | Burma-China border region           |         |             |      |             |            |     |     |     |     |                |                        |       |
| 77                                        | 25          | 17-08-34.0 | 22.53N                              | 100.68E | 31          |      |             |            | 3.6 |     |     |     |                | 2.3                    | 5     |
|                                           | 26          | 01         | Burma-China border region           |         |             |      |             |            |     |     |     |     |                |                        |       |
| 78                                        | 25          | 22-23-03.8 | 23.29N                              | 104.07E | 10          |      |             |            | 3.8 |     |     |     |                | 2.5                    | 9     |
|                                           | 26          | 06         | Yunnan Province                     |         |             |      |             |            |     |     |     |     |                |                        |       |
| 79                                        | 26          | 01-09-02.9 | 35.77N                              | 115.40E | 15          |      |             |            | 3.1 |     |     |     |                | 0.6                    | 6     |
|                                           | 26          | 09         | Eastern China                       |         |             |      |             |            |     |     |     |     |                |                        |       |
| 80                                        | 26          | 03-01-11.5 | 39.33N                              | 122.19E | 14          |      |             |            | 3.2 |     |     |     |                | 1.4                    | 8     |
|                                           | 26          | 11         | North-Eastern China                 |         |             |      |             |            |     |     |     |     |                |                        |       |
| 81                                        | 26          | 08-50-44.9 | 25.21N                              | 98.95E  | 22          |      |             |            | 3.2 |     |     |     |                | 2.0                    | 5     |
|                                           | 26          | 16         | Burma-China border region           |         |             |      |             |            |     |     |     |     |                |                        |       |

| CATALOGUE OF EVENTS WITHIN AND NEAR CHINA |             |       |      |                                   |             |      |       |            |     |     |     |    |        | SD NO. |      |
|-------------------------------------------|-------------|-------|------|-----------------------------------|-------------|------|-------|------------|-----|-----|-----|----|--------|--------|------|
| NO                                        | ORIGIN TIME |       |      |                                   | GEOGRAPHIC  |      | DEPTH | MAGNITUDES |     |     |     |    |        | STA.   |      |
|                                           | UTC         |       |      |                                   | COORDINATES |      |       | Ms         | Ms7 | ML  | mB  | mb | Ms7 mb |        |      |
|                                           | DAY         | HR    | MN   | SEC                               | LAT         | LONG | km    | CHINA      |     |     |     |    |        | NEIC   | USED |
| January 2005                              |             |       |      |                                   |             |      |       |            |     |     |     |    |        |        |      |
| 82                                        | 26          | 23-52 | 12.8 | 23.57N                            | 103.97E     | 16   |       |            | 3.8 |     |     |    |        | 3.7    | 9    |
|                                           | 27          | 07    |      | Yunnan Province                   |             |      |       |            |     |     |     |    |        |        |      |
| 83                                        | 27          | 12-31 | 31.2 | 24.15N                            | 121.68E     | 37   | 4.6   | 4.5        | 4.4 | 5.2 | 4.2 |    | 4.5    | 1.6    | 25   |
|                                           | 27          | 20    |      | Taiwan                            |             |      |       |            |     |     |     |    |        |        |      |
| 84                                        | 27          | 15-16 | 35.8 | 35.75N                            | 115.40E     | 22   |       |            | 3.2 |     |     |    |        | 2.8    | 8    |
|                                           | 27          | 23    |      | Eastern China                     |             |      |       |            |     |     |     |    |        |        |      |
| 85                                        | 27          | 22-29 | 40.8 | 24.30N                            | 102.77E     | 15   | 4.5   | 4.0        | 3.5 |     |     |    |        | 2.7    | 10   |
|                                           | 28          | 06    |      | Yunnan Province                   |             |      |       |            |     |     |     |    |        |        |      |
| 86                                        | 28          | 00-21 | 31.5 | 25.89N                            | 100.39E     | 17   |       |            | 3.2 |     |     |    |        | 3.5    | 5    |
|                                           | 28          | 08    |      | Yunnan Province                   |             |      |       |            |     |     |     |    |        |        |      |
| 87                                        | 28          | 06-07 | 33.6 | 39.32N                            | 123.87E     | 10   |       |            | 3.6 |     |     |    |        | 4.2    | 6    |
|                                           | 28          | 14    |      | North-Eastern China               |             |      |       |            |     |     |     |    |        |        |      |
| 88                                        | 28          | 08-43 | 21.2 | 44.16N                            | 119.34E     | 22   |       |            | 3.5 |     |     |    |        | 2.3    | 8    |
|                                           | 28          | 16    |      | North-Eastern China               |             |      |       |            |     |     |     |    |        |        |      |
| 89                                        | 28          | 21-29 | 16.9 | 24.63N                            | 98.35E      | 15   |       |            | 3.0 |     |     |    |        | 4.5    | 5    |
|                                           | 29          | 05    |      | Burma-China border region         |             |      |       |            |     |     |     |    |        |        |      |
| 90                                        | 29          | 03-22 | 07.3 | 39.56N                            | 118.13E     | 19   |       |            | 3.4 |     |     |    |        | 2.3    | 9    |
|                                           | 29          | 11    |      | North-Eastern China               |             |      |       |            |     |     |     |    |        |        |      |
| 91                                        | 29          | 08-31 | 59.3 | 43.82N                            | 82.64E      | 24   | 3.8   | 3.6        | 4.4 | 4.7 | 4.1 |    | 3.8    | 2.7    | 22   |
|                                           | 29          | 16    |      | Northern Xinjiang Province        |             |      |       |            |     |     |     |    |        |        |      |
| 92                                        | 29          | 09-33 | 37.7 | 43.80N                            | 82.37E      | 14   | 3.4   | 3.5        | 3.8 |     |     |    |        | 2.9    | 8    |
|                                           | 29          | 17    |      | Northern Xinjiang Province        |             |      |       |            |     |     |     |    |        |        |      |
| 93                                        | 29          | 22-38 | 22.7 | 43.77N                            | 84.42E      | 14   |       |            | 3.5 |     |     |    |        | 1.9    | 8    |
|                                           | 30          | 06    |      | Northern Xinjiang Province        |             |      |       |            |     |     |     |    |        |        |      |
| 94                                        | 31          | 06-43 | 28.7 | 49.63N                            | 88.41E      | 8    | 4.7   | 4.2        | 5.5 | 4.9 | 4.5 |    | 4.7    | 1.9    | 40   |
|                                           | 31          | 14    |      | Kazakhstan-Xinjiang border region |             |      |       |            |     |     |     |    |        |        |      |
| 95                                        | 31          | 10-10 | 11.9 | 22.84N                            | 120.59E     | 5    | 4.3   | 4.2        | 4.5 | 5.0 | 4.4 |    | 4.3    | 1.7    | 23   |
|                                           | 31          | 18    |      | Taiwan                            |             |      |       |            |     |     |     |    |        |        |      |

| CATALOGUE OF EVENTS ALL OVER THE WORLD (M>=6.0) |             |            |                                     |                  |     |      |            |       |     |     |      |     |           |
|-------------------------------------------------|-------------|------------|-------------------------------------|------------------|-----|------|------------|-------|-----|-----|------|-----|-----------|
| NO                                              | ORIGIN TIME |            |                                     | GEOGRAPHIC DEPTH |     |      | MAGNITUDES |       |     |     |      |     |           |
|                                                 | UTC         |            |                                     | COORDINATES      |     |      | Ms         | Ms7   | ML  | mB  | mb   | MsZ | mb        |
|                                                 | DAY         | HR         | MN                                  | SEC              | LAT | LONG | km         | CHINA |     |     | NEIC |     | SD NO.    |
|                                                 |             |            |                                     |                  |     |      |            |       |     |     |      |     | STA. USED |
| January 2005                                    |             |            |                                     |                  |     |      |            |       |     |     |      |     |           |
| 1                                               | 1           | 06-25-43.0 | 4.72N                               | 92.25E           | 28  | 7.1  | 6.8        |       | 6.5 | 6.0 | 6.7  | 6.0 | 1.0 85    |
|                                                 | 1           | 14 (BTC)   | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 2                                               | 1           | 19-08-06.7 | 7.10N                               | 94.18E           | 77  | 6.4  | 6.1        |       | 6.2 | 5.6 | 5.9  | 5.6 | 1.1 82    |
|                                                 | 2           | 03         | Nicobar Islands region              |                  |     |      |            |       |     |     |      |     |           |
| 3                                               | 2           | 08-27-40.0 | 3.09N                               | 95.35E           | 15  | 6.2  | 6.0        |       | 6.0 | 5.3 | 5.9  | 5.6 | 1.1 80    |
|                                                 | 2           | 16         | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 4                                               | 2           | 15-35-55.0 | 6.43N                               | 92.69E           | 30  | 6.6  | 6.4        |       | 6.2 | 5.6 | 6.2  | 5.7 | 1.1 82    |
|                                                 | 2           | 23         | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 5                                               | 4           | 09-13-10.5 | 10.53N                              | 92.40E           | 32  | 6.1  | 6.0        |       | 6.0 | 5.7 | 5.9  | 6.0 | 0.9 85    |
|                                                 | 4           | 17         | Andaman Islands region              |                  |     |      |            |       |     |     |      |     |           |
| 6                                               | 4           | 19-14-47.6 | 10.47N                              | 91.65E           | 18  | 5.7  | 5.5        |       | 6.0 | 5.5 | 5.3  | 5.6 | 1.3 79    |
|                                                 | 5           | 03         | Nicobar Islands region              |                  |     |      |            |       |     |     |      |     |           |
| 7                                               | 6           | 00-04-08.5 | 19.18N                              | 109.97W          | 18  | 5.8  | 5.4        |       | 6.0 | 5.2 |      | 5.2 | 2.8 15    |
|                                                 | 6           | 08         | Gigedo Islands region               |                  |     |      |            |       |     |     |      |     |           |
| 8                                               | 6           | 00-56-28.3 | 5.12N                               | 94.65E           | 64  | 5.6  | 5.4        |       | 5.9 | 6.1 | 5.5  | 6.1 | 1.1 80    |
|                                                 | 6           | 08         | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 9                                               | 9           | 22-12-57.5 | 5.10N                               | 94.84E           | 35  | 6.0  | 5.9        |       | 6.2 | 5.9 | 5.8  | 6.0 | 2.3 84    |
|                                                 | 10          | 06         | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 10                                              | 12          | 08-40-03.6 | 0.90S                               | 21.20W           | 10  | 5.7  | 6.3        |       | 6.3 |     | 6.0  | 5.7 | 2.6 15    |
|                                                 | 12          | 16         | Central Mid-Atlantic Ridge          |                  |     |      |            |       |     |     |      |     |           |
| 11                                              | 14          | 08-33-13.7 | 3.93S                               | 153.47E          | 22  | 6.0  | 5.8        |       | 6.2 | 5.4 | 6.0  | 5.5 | 1.5 75    |
|                                                 | 14          | 16         | New Britain region                  |                  |     |      |            |       |     |     |      |     |           |
| 12                                              | 16          | 08-25-03.5 | 25.16S                              | 175.96W          | 13  | 6.1  | 5.9        |       | 6.4 | 6.2 | 6.1  | 6.0 | 0.9 75    |
|                                                 | 16          | 16         | South of Fiji                       |                  |     |      |            |       |     |     |      |     |           |
| 13                                              | 16          | 20-17-51.5 | 10.89N                              | 141.25E          | 39  | 6.7  | 6.6        |       | 6.8 | 5.9 | 6.7  | 6.3 | 1.2 87    |
|                                                 | 17          | 04         | Western Caroline Islands            |                  |     |      |            |       |     |     |      |     |           |
| 14                                              | 17          | 10-50-31.1 | 10.93N                              | 141.14E          | 24  | 6.0  | 5.9        |       | 6.4 | 5.7 | 5.9  | 5.9 | 1.0 82    |
|                                                 | 17          | 18         | Western Caroline Islands            |                  |     |      |            |       |     |     |      |     |           |
| 15                                              | 18          | 14-09-04.2 | 42.99N                              | 144.93E          | 44  | 6.0  | 6.0        |       | 6.7 | 6.3 | 5.7  | 6.3 | 1.2 86    |
|                                                 | 18          | 22         | Hokkaido region                     |                  |     |      |            |       |     |     |      |     |           |
| 16                                              | 19          | 06-11-33.8 | 34.00N                              | 141.62E          | 37  | 7.0  | 6.9        |       | 6.5 | 5.2 | 6.4  | 5.8 | 2.0 79    |
|                                                 | 19          | 14         | Off east coast of Honshu            |                  |     |      |            |       |     |     |      |     |           |
| 17                                              | 21          | 12-45-28.0 | 34.14N                              | 141.78E          | 16  | 6.1  | 5.9        |       | 5.8 | 5.0 | 5.7  | 5.3 | 2.1 73    |
|                                                 | 21          | 20         | Off east coast of Honshu            |                  |     |      |            |       |     |     |      |     |           |
| 18                                              | 21          | 13-45-14.0 | 1.10S                               | 80.80W           | 10  | 6.0  | 5.8        |       | 6.3 |     | 5.5  | 5.0 | 2.8 41    |
|                                                 | 21          | 21         | Off coast of Ecuador                |                  |     |      |            |       |     |     |      |     |           |
| 19                                              | 22          | 20-30-15.6 | 7.60S                               | 159.95E          | 38  | 6.3  | 6.3        |       | 6.4 | 6.0 | 6.5  | 6.2 | 1.0 85    |
|                                                 | 23          | 04         | Solomon Islands                     |                  |     |      |            |       |     |     |      |     |           |
| 20                                              | 23          | 20-10-17.1 | 1.20S                               | 119.90E          | 48  | 6.0  | 5.9        |       | 6.4 | 5.7 | 5.9  | 5.9 | 2.1 85    |
|                                                 | 24          | 04         | Sulawesi (Celebes)                  |                  |     |      |            |       |     |     |      |     |           |
| 21                                              | 23          | 20-36-06.2 | 2.59N                               | 94.35E           | 31  | 5.6  | 4.9        |       | 6.0 | 5.0 |      | 5.0 | 1.3 46    |
|                                                 | 24          | 04         | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 22                                              | 24          | 04-16-45.1 | 7.25N                               | 92.48E           | 33  | 6.4  | 6.1        |       | 6.1 | 5.7 | 6.2  | 6.1 | 1.3 86    |
|                                                 | 24          | 12         | Nicobar Islands region              |                  |     |      |            |       |     |     |      |     |           |
| 23                                              | 24          | 23-23-26.1 | 1.40S                               | 80.80W           | 16  | 6.1  | 5.9        |       | 6.0 |     | 5.7  | 5.5 | 2.1 62    |
|                                                 | 25          | 07         | Off coast of Ecuador                |                  |     |      |            |       |     |     |      |     |           |
| 24                                              | 24          | 23-26-50.3 | 1.40S                               | 80.90W           | 10  | 6.0  | 5.8        |       | 5.7 |     |      | 5.4 | 2.5 23    |
|                                                 | 25          | 07         | Off coast of Ecuador                |                  |     |      |            |       |     |     |      |     |           |
| 25                                              | 25          | 16-44-13.8 | 37.47N                              | 43.48E           | 55  | 6.0  | 5.7        |       | 5.6 | 5.2 | 5.6  | 5.3 | 1.6 69    |
|                                                 | 26          | 00         | Iraq                                |                  |     |      |            |       |     |     |      |     |           |
| 26                                              | 26          | 22-00-40.1 | 2.51N                               | 94.53E           | 32  | 6.5  | 6.4        |       | 6.3 | 5.5 | 6.0  | 5.6 | 1.1 84    |
|                                                 | 27          | 06         | Off west coast of Northern Sumatera |                  |     |      |            |       |     |     |      |     |           |
| 27                                              | 27          | 17-24-58.6 | 7.70N                               | 93.84E           | 24  | 5.4  | 5.1        |       | 6.0 | 4.8 |      | 5.1 | 1.8 59    |
|                                                 | 28          | 01         | Nicobar Islands region              |                  |     |      |            |       |     |     |      |     |           |

| CATALOGUE OF EVENTS ALL OVER THE WORLD ( $M \geq 6.0$ ) |             |            |                           |         |             |      |       |            |     |     |     |      |     |      |        |
|---------------------------------------------------------|-------------|------------|---------------------------|---------|-------------|------|-------|------------|-----|-----|-----|------|-----|------|--------|
| NO                                                      | ORIGIN TIME |            |                           |         | GEOGRAPHIC  |      | DEPTH | MAGNITUDES |     |     |     |      |     |      | SD NO. |
|                                                         | UTC         |            |                           |         | COORDINATES |      |       | Ms         | Ms7 | ML  | mB  | mb   | MsZ | mb   |        |
|                                                         | DAY         | HR         | MN                        | SEC     | LAT         | LONG | km    | CHINA      |     |     |     | NEIC |     | USED |        |
| January 2005                                            |             |            |                           |         |             |      |       |            |     |     |     |      |     |      |        |
| 28                                                      | 27          | 19-09-53.5 | 50.20S                    | 161.80E | 10          | 6.1  | 5.5   |            |     | 5.8 | 5.3 |      | 4.9 | 1.2  | 9      |
|                                                         | 28          | 03         | North of Macquarie Island |         |             |      |       |            |     |     |     |      |     |      |        |
| 29                                                      | 28          | 09-26-18.8 | 1.20S                     | 81.50W  | 10          | 6.1  | 5.8   |            |     | 6.0 |     |      | 5.6 | 5.2  | 36     |
|                                                         | 28          | 17         | Off coast of Ecuador      |         |             |      |       |            |     |     |     |      |     |      |        |
| 30                                                      | 28          | 15-46-45.2 | 1.10S                     | 81.20W  | 10          | 5.9  | 5.8   |            |     | 6.0 |     |      | 5.5 | 5.4  | 40     |
|                                                         | 28          | 23         | Off coast of Ecuador      |         |             |      |       |            |     |     |     |      |     |      |        |
| 31                                                      | 29          | 06-37-46.6 | 56.80S                    | 141.00W | 10          | 5.9  | 5.6   |            |     | 6.0 |     |      | 5.2 | 2.7  | 16     |
|                                                         | 29          | 14         | South Pacific Cordillera  |         |             |      |       |            |     |     |     |      |     |      |        |
| 32                                                      | 30          | 08-08-24.8 | 24.04S                    | 175.69W | 22          | 5.6  | 5.3   |            |     | 6.1 | 5.9 | 5.4  | 5.5 | 0.6  | 56     |
|                                                         | 30          | 16         | South of Fiji             |         |             |      |       |            |     |     |     |      |     |      |        |
| 33                                                      | 31          | 01-05-30.1 | 37.82N                    | 20.29E  | 20          | 5.8  | 5.5   |            |     | 6.0 | 5.3 | 5.4  | 5.1 | 1.1  | 76     |
|                                                         | 31          | 09         | Ionian Sea                |         |             |      |       |            |     |     |     |      |     |      |        |

| CATALOGUE OF EVENTS ALL OVER THE WORLD |             |            |                                     |         |             |      |             |            |     |     |     |     |                        |        |    |
|----------------------------------------|-------------|------------|-------------------------------------|---------|-------------|------|-------------|------------|-----|-----|-----|-----|------------------------|--------|----|
| NO                                     | ORIGIN TIME |            |                                     |         | GEOGRAPHIC  |      | DEPTH<br>km | MAGNITUDES |     |     |     |     | SD NO.<br>STA.<br>USED |        |    |
|                                        | UTC         |            |                                     |         | COORDINATES |      |             | Ms         | Ms7 | ML  | mB  | mb  |                        | Ms7 mb |    |
|                                        | DAY         | HR         | MN                                  | SEC     | LAT         | LONG |             | CHINA      |     |     |     |     |                        | NEIC   |    |
| January 2005                           |             |            |                                     |         |             |      |             |            |     |     |     |     |                        |        |    |
| 1                                      | 1           | 00-47-33.0 | 3.66N                               | 94.62E  | 47          | 4.5  | 4.4         |            |     | 5.2 | 5.0 |     | 4.8                    | 1.0    | 28 |
|                                        | 1           | 08 (BTC)   | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 2                                      | 1           | 00-52-55.9 | 8.18N                               | 92.44E  | 44          | 4.6  | 4.3         |            |     | 5.0 | 4.7 | 4.6 | 4.8                    | 1.3    | 38 |
|                                        | 1           | 08         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 3                                      | 1           | 00-56-46.3 | 7.87N                               | 93.05E  | 57          | 4.7  | 4.4         |            |     | 5.2 | 4.9 |     | 4.7                    | 1.6    | 32 |
|                                        | 1           | 08         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 4                                      | 1           | 01-20-04.3 | 13.80N                              | 88.80W  | 193         |      |             |            |     | 4.9 |     |     | 5.0                    | 3.6    | 8  |
|                                        | 1           | 09         | El Salvador                         |         |             |      |             |            |     |     |     |     |                        |        |    |
| 5                                      | 1           | 01-42-23.5 | 6.94N                               | 93.66E  | 52          | 5.0  | 4.6         |            |     | 5.3 | 5.0 |     | 5.1                    | 1.3    | 51 |
|                                        | 1           | 09         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 6                                      | 1           | 01-43-46.9 | 7.38N                               | 93.30E  | 32          | 4.9  | 4.5         |            |     | 5.1 | 4.7 |     | 4.9                    | 2.8    | 18 |
|                                        | 1           | 09         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 7                                      | 1           | 01-55-26.6 | 2.80N                               | 95.58E  | 29          | 5.9  | 5.9         |            |     | 5.9 | 5.7 | 5.6 | 5.3                    | 1.1    | 81 |
|                                        | 1           | 09         | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 8                                      | 1           | 02-54-22.7 | 8.40N                               | 91.50E  | 29          | 4.6  | 4.6         |            |     | 5.1 | 4.9 |     | 4.9                    | 2.7    | 20 |
|                                        | 1           | 10         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 9                                      | 1           | 03-15-40.2 | 26.92N                              | 100.31E | 10          |      |             |            |     | 2.9 |     |     |                        | 2.6    | 6  |
|                                        | 1           | 11         | Yunnan Province                     |         |             |      |             |            |     |     |     |     |                        |        |    |
| 10                                     | 1           | 04-03-09.6 | 5.30N                               | 94.31E  | 52          | 5.6  | 5.4         |            |     | 5.8 | 5.7 | 5.5 | 5.8                    | 1.0    | 82 |
|                                        | 1           | 12         | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 11                                     | 1           | 04-29-12.2 | 3.71N                               | 95.34E  | 36          | 4.8  | 4.4         |            |     | 5.7 | 5.1 |     | 4.9                    | 1.3    | 47 |
|                                        | 1           | 12         | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 12                                     | 1           | 04-38-49.1 | 3.90S                               | 102.30E | 25          | 4.7  | 4.4         |            |     | 5.2 | 4.8 |     | 4.8                    | 1.4    | 19 |
|                                        | 1           | 12         | Southern Sumatera                   |         |             |      |             |            |     |     |     |     |                        |        |    |
| 13                                     | 1           | 05-18-21.4 | 7.31N                               | 92.83E  | 30          | 4.5  | 4.0         |            |     | 5.1 | 4.6 |     | 4.5                    | 1.9    | 19 |
|                                        | 1           | 13         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 14                                     | 1           | 06-25-43.0 | 4.72N                               | 92.25E  | 28          | 7.1  | 6.8         |            |     | 6.5 | 6.0 | 6.7 | 6.0                    | 1.0    | 85 |
|                                        | 1           | 14         | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 15                                     | 1           | 06-34-38.1 | 8.06N                               | 92.74E  | 30          |      |             |            |     |     | 5.3 |     | 5.0                    | 1.1    | 23 |
|                                        | 1           | 14         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 16                                     | 1           | 08-50-41.2 | 8.69N                               | 93.85E  | 54          | 4.5  | 4.4         |            |     | 5.4 | 4.9 |     | 4.8                    | 1.3    | 38 |
|                                        | 1           | 16         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 17                                     | 1           | 10-12-59.3 | 9.48N                               | 93.06E  | 30          | 4.5  | 4.4         |            |     |     | 4.7 |     | 4.6                    | 2.0    | 10 |
|                                        | 1           | 18         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 18                                     | 1           | 10-15-22.4 | 4.54N                               | 94.81E  | 47          | 4.8  | 4.5         |            |     | 5.3 | 5.0 |     | 5.0                    | 1.2    | 56 |
|                                        | 1           | 18         | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 19                                     | 1           | 11-53-10.2 | 10.61N                              | 91.85E  | 32          | 4.5  | 4.2         |            |     | 5.2 | 4.8 |     | 5.0                    | 1.2    | 53 |
|                                        | 1           | 19         | Andaman Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 20                                     | 1           | 12-11-23.0 | 39.49N                              | 77.10E  | 19          | 4.3  | 3.9         | 4.7        | 5.0 | 4.5 |     |     |                        | 2.5    | 18 |
|                                        | 1           | 20         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                        |        |    |
| 21                                     | 1           | 12-15-07.4 | 43.75N                              | 86.23E  | 15          |      |             |            |     | 3.6 |     |     |                        | 1.7    | 5  |
|                                        | 1           | 20         | Northern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                        |        |    |
| 22                                     | 1           | 12-24-23.1 | 39.52N                              | 77.03E  | 15          |      |             |            |     | 3.4 |     |     |                        | 2.3    | 5  |
|                                        | 1           | 20         | Southern Xinjiang Province          |         |             |      |             |            |     |     |     |     |                        |        |    |
| 23                                     | 1           | 13-15-40.4 | 8.60N                               | 93.50E  | 30          |      |             |            |     | 5.2 | 4.8 |     | 4.6                    | 2.1    | 16 |
|                                        | 1           | 21         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 24                                     | 1           | 14-29-09.6 | 7.93N                               | 93.00E  | 40          | 5.0  | 4.7         |            |     | 5.4 | 5.5 | 5.1 | 5.2                    | 1.1    | 76 |
|                                        | 1           | 22         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 25                                     | 1           | 16-02-52.8 | 4.90N                               | 94.46E  | 48          | 4.4  | 4.2         |            |     | 5.2 | 4.8 |     | 4.8                    | 1.7    | 38 |
|                                        | 2           | 00         | Off west coast of Northern Sumatera |         |             |      |             |            |     |     |     |     |                        |        |    |
| 26                                     | 1           | 17-06-31.8 | 10.86N                              | 91.61E  | 54          | 4.3  |             |            |     | 5.1 | 4.4 |     | 4.6                    | 2.1    | 24 |
|                                        | 2           | 01         | Andaman Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |
| 27                                     | 1           | 17-28-17.9 | 8.70N                               | 92.15E  | 24          | 4.4  | 4.2         |            |     | 5.1 | 4.9 |     | 4.8                    | 1.3    | 42 |
|                                        | 2           | 01         | Nicobar Islands region              |         |             |      |             |            |     |     |     |     |                        |        |    |

| CATALOGUE OF EVENTS ALL OVER THE WORLD |             |                                        |        |         |             |      |         |            |     |     |     |     |              | SD NO. |
|----------------------------------------|-------------|----------------------------------------|--------|---------|-------------|------|---------|------------|-----|-----|-----|-----|--------------|--------|
| NO                                     | ORIGIN TIME |                                        |        |         | GEOGRAPHIC  |      | DEPTH   | MAGNITUDES |     |     |     |     | STA.<br>USED |        |
|                                        | UTC         |                                        |        |         | COORDINATES |      |         | Ms         | Ms7 | ML  | mB  | mb  |              | MsZ mb |
|                                        | DAY         | HR                                     | MN     | SEC     | LAT         | LONG | km      | CHINA      |     |     |     |     |              | NEIC   |
| January 2005                           |             |                                        |        |         |             |      |         |            |     |     |     |     |              |        |
| 28                                     | 1           | 18-07-08.9                             | 5.10N  | 96.30E  | 28          | 4.5  | 4.0     |            |     | 5.0 | 4.6 |     | 4.5          | 2.1 19 |
|                                        | 2           | 02 Northern Sumatera                   |        |         |             |      |         |            |     |     |     |     |              |        |
| 29                                     | 1           | 18-24-06.9                             | 12.23N | 92.45E  | 50          | 4.3  | 4.1     |            |     | 5.1 | 4.8 |     | 4.8          | 1.6 43 |
|                                        | 2           | 02 Andaman Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 30                                     | 1           | 19-08-06.7                             | 7.10N  | 94.18E  | 77          | 6.4  | 6.1     |            |     | 6.2 | 5.6 | 5.9 | 5.6          | 1.1 82 |
|                                        | 2           | 03 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 31                                     | 1           | 21-39-09.5                             | 27.26N | 143.23E | 30          | 4.4  | 4.1     |            |     | 5.0 | 4.2 |     | 4.5          | 1.6 10 |
|                                        | 2           | 05 Bonin Islands region                |        |         |             |      |         |            |     |     |     |     |              |        |
| 32                                     | 1           | 22-23-16.2                             | 6.86N  | 92.87E  | 64          | 5.4  | 5.1     |            |     | 5.2 | 4.8 |     | 4.9          | 1.6 48 |
|                                        | 2           | 06 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 33                                     | 1           | 22-28-12.8                             | 7.11N  | 92.61E  | 17          | 5.7  | 5.4     |            |     | 5.7 | 5.1 | 5.4 | 5.4          | 1.8 74 |
|                                        | 2           | 06 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 34                                     | 1           | 22-40-42.5                             | 8.05N  | 92.48E  | 30          | 5.5  | 5.4     |            |     | 5.7 | 4.7 |     | 5.0          | 1.4 31 |
|                                        | 2           | 06 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 35                                     | 1           | 22-50-04.0                             | 43.97N | 85.16E  | 13          |      |         |            | 3.3 |     |     |     |              | 1.3 7  |
|                                        | 2           | 06 Northern Xinjiang Province          |        |         |             |      |         |            |     |     |     |     |              |        |
| 36                                     | 1           | 22-57-32.1                             | 7.80N  | 93.23E  | 49          | 5.1  | 5.1     |            |     |     | 4.8 |     | 4.9          | 1.4 35 |
|                                        | 2           | 06 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 37                                     | 1           | 23-11-14.3                             | 4.87N  | 92.78E  | 30          | 4.8  | 4.6     |            |     | 5.4 | 4.7 |     | 4.8          | 1.3 27 |
|                                        | 2           | 07 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |
| 38                                     | 1           | 23-40-21.2                             | 2.39N  | 96.49E  | 30          | 4.7  | 4.6     |            |     | 5.4 | 5.0 |     | 5.0          | 1.1 49 |
|                                        | 2           | 07 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |
| 39                                     | 2           | 00-24-37.6                             | 56.61N | 118.11E | 10          | 5.4  | 5.3     |            |     | 5.3 | 5.0 | 4.9 | 5.2          | 1.5 68 |
|                                        | 2           | 08 East of Lake Baykal                 |        |         |             |      |         |            |     |     |     |     |              |        |
| 40                                     | 2           | 01-55-40.4                             | 6.72N  | 91.99E  | 38          | 4.1  | 4.0     |            |     | 5.1 | 4.7 |     | 4.6          | 0.9 26 |
|                                        | 2           | 09 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 41                                     | 2           | 04-01-30.8                             | 4.35N  | 95.11E  | 56          | 4.5  | 4.1     |            |     | 5.2 | 5.3 | 4.2 | 4.8          | 1.4 60 |
|                                        | 2           | 12 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |
| 42                                     | 2           | 04-11-47.9                             | 6.85N  | 92.80E  | 22          |      |         |            |     | 5.1 | 4.5 |     | 4.6          | 1.5 10 |
|                                        | 2           | 12 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 43                                     | 2           | 05-49-14.8                             | 6.90N  | 91.80E  | 30          |      |         |            |     |     | 4.4 |     | 4.4          | 1.8 7  |
|                                        | 2           | 13 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 44                                     | 2           | 07-12-13.7                             | 26.02N | 99.92E  | 10          |      |         |            | 3.6 |     |     |     |              | 4.2 8  |
|                                        | 2           | 15 Yunnan Province                     |        |         |             |      |         |            |     |     |     |     |              |        |
| 45                                     | 2           | 07-21-25.8                             | 11.46N | 92.09E  | 49          |      |         |            |     |     | 4.5 |     | 4.5          | 1.3 17 |
|                                        | 2           | 15 Andaman Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 46                                     | 2           | 08-27-40.0                             | 3.09N  | 95.35E  | 15          | 6.2  | 6.0     |            |     | 6.0 | 5.3 | 5.9 | 5.6          | 1.1 80 |
|                                        | 2           | 16 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |
| 47                                     | 2           | 09-16-19.6                             | 8.25N  | 92.05E  | 57          | 4.8  | 4.5     |            |     | 5.0 | 4.7 |     | 4.7          | 2.3 17 |
|                                        | 2           | 17 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 48                                     | 2           | 10-00-04.5                             | 26.13N | 99.79E  | 7           |      |         |            | 3.4 |     |     |     |              | 3.7 7  |
|                                        | 2           | 18 Yunnan Province                     |        |         |             |      |         |            |     |     |     |     |              |        |
| 49                                     | 2           | 10-36-55.2                             | 5.37N  | 92.99E  | 30          |      |         |            |     | 5.4 | 4.6 |     | 4.6          | 1.1 16 |
|                                        | 2           | 18 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |
| 50                                     | 2           | 11-01-32.3                             | 52.45N | 158.68E | 161         |      |         |            |     | 4.9 | 4.6 |     | 4.4          | 1.0 21 |
|                                        | 2           | 19 Near east coast of Kamchatka        |        |         |             |      |         |            |     |     |     |     |              |        |
| 51                                     | 2           | 12-12-09.4                             | 5.25N  | 94.29E  | 31          | 5.1  | 4.9     |            |     | 5.3 | 5.4 | 4.9 | 5.3          | 1.1 75 |
|                                        | 2           | 20 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |
| 52                                     | 2           | 15-04-21.3                             | 9.03N  | 93.52E  | 24          | 4.3  |         |            |     | 5.2 | 4.6 |     | 4.5          | 1.3 23 |
|                                        | 2           | 23 Nicobar Islands region              |        |         |             |      |         |            |     |     |     |     |              |        |
| 53                                     | 2           | 15-07-30.6                             | 40.57N | 111.34E | 15          | 3.6  | 3.1 3.4 |            |     |     |     |     |              | 1.9 10 |
|                                        | 2           | 23 Northern China                      |        |         |             |      |         |            |     |     |     |     |              |        |
| 54                                     | 2           | 15-16-22.5                             | 3.96N  | 95.14E  | 49          | 4.6  |         |            |     | 5.3 | 5.1 |     | 4.7          | 1.7 20 |
|                                        | 2           | 23 Off west coast of Northern Sumatera |        |         |             |      |         |            |     |     |     |     |              |        |