

B MELLÉKLET

A VILÁG JELENTŐS FÖLDRENGÉSEI

2008

Forrás:

*U.S. Geological Survey
National Earthquake Information Center
(USGS - NEIC)*

APPENDIX B

SIGNIFICANT EARTHQUAKES OF THE WORLD

2008

Source:

*U.S. Geological Survey
National Earthquake Information Center
(USGS - NEIC)*

Halálos áldozatot követelő földrengések a világon 2008-ban

Deaths from Earthquakes in 2008

| Dátum Date | Ország, terület Region | Magnitúdó Magnitude | Áldozatok száma Number killed |
|------------------|------------------------------|------------------------|----------------------------------|
| 2008 01 09 | Northern Algeria | 4.6 | 1 |
| 2008 01 22 | Nias region, Indonesia | 6.2 | 1 |
| 2008 02 03 | Dem. Rep. of the Congo | 5.9 | 44 |
| 2008 02 06 | West Bengal, India | 4.3 | 1 |
| 2008 02 14 | Rwanda | 5.3 | 1 |
| 2008 02 20 | Simeulue, Indonesia | 7.4 | 3 |
| 2008 05 12 | Eastern Sichuan, China | 7.9 | 87.587 |
| 2008 05 24 | Colombia | 5.9 | 6 |
| 2008 05 25 | Sichuan-Gansu region, China | 6.1 | 8 |
| 2008 06 06 | Northern Algeria | 5.5 | 1 |
| 2008 06 08 | Greece | 6.4 | 2 |
| 2008 06 13 | Eastern Honshu, Japan | 6.9 | 13 |
| 2008 06 17 | Sichuan-Gansu region, China | 4.8 | 2 |
| 2008 07 08 | Southern Peru | 6.2 | 1 |
| 2008 07 15 | Dodecanese Islands, Greece | 6.4 | 1 |
| 2008 07 23 | Eastern Honshu, Japan | 6.8 | 1 |
| 2008 07 24 | Sichuan-Gansu region, China | 5.7 | 1 |
| 2008 08 05 | Sichuan-Gansu region, China | 6.0 | 4 |
| 2008 08 21 | Myanmar-China border region | 6.0 | 5 |
| 2008 08 30 | Sichuan-Yunnan region, China | 5.9 | 43 |
| 2008 08 31 | Sichuan-Yunnan region, China | 5.5 | 2 |
| 2008 09 09 | Southern Sumatra, Indonesia | 5.4 | 2 |
| 2008 09 10 | Southern Iran | 6.1 | 7 |
| 2008 09 16 | Maharashtra, India | 5.0 | 1 |
| 2008 10 05 | Kyrgyzstan | 6.6 | 74 |
| 2008 10 06 | Eastern Xizang | 6.3 | 10 |
| 2008 10 11 | Caucasus region, Russia | 5.8 | 13 |
| 2008 10 28 | Pakistan | 6.4 | 166 |
| 2008 11 16 | Minahasa, Indonesia | 7.3 | 6 |
| 2008 11 22 | Czech Republic | 4.1 | 2 |
| 2008 12 09 | Sichuan-Gansu region, China | 5.5 | 2 |
| Összesen / Total | | | 88.011 |

A 7.0 vagy annál nagyobb magnitúdójú földrengések a világon 2008-ban

Earthquakes of magnitude 7.0 and greater in 2008

| | Év Year | Hónap Month | Nap Day | Idő Time (UTC) | Szélesség Latitude | Hosszúság Longitude | Mélység Depth (km) | Magnitúdó Magnitude | Ország, terület Region |
|-----|------------|----------------|------------|----------------------|-----------------------|------------------------|--------------------------|------------------------|---------------------------------|
| 1. | 2008 | 02 | 20 | 08:08:30.5 | 2.768 | 95.964 | 26 | 7.4 | Simeulue, Indonesia |
| 2. | 2008 | 02 | 25 | 08:36:33.0 | -2.486 | 99.972 | 25 | 7.2 | Kepulauan region, Indonesia |
| 3. | 2008 | 03 | 20 | 22:32:57.9 | 35.490 | 81.467 | 10 | 7.2 | Xinjiang-Xizang border region |
| 4. | 2008 | 04 | 09 | 12:46:12.7 | -20.071 | 168.892 | 33 | 7.3 | Loyalty Islands |
| 5. | 2008 | 04 | 12 | 00:30:12.6 | -55.664 | 158.453 | 16 | 7.1 | Macquarie Island |
| 6. | 2008 | 05 | 12 | 06:28:01.5 | 31.002 | 103.322 | 19 | 7.9 | Eastern Sichuan, China |
| 7. | 2008 | 06 | 30 | 06:17:43.0 | -58.227 | -22.099 | 8 | 7.0 | South Sandwich Islands region |
| 8. | 2008 | 07 | 05 | 02:12:04.4 | 53.882 | 152.886 | 633 | 7.7 | Sea of Okhotsk |
| 9. | 2008 | 07 | 19 | 02:39:28.7 | 37.552 | 142.214 | 22 | 7.0 | Off East Coast of Honshu, Japan |
| 10. | 2008 | 09 | 29 | 15:19:31.5 | -29.756 | -177.683 | 36 | 7.0 | Kermadec Islands, New Zealand |
| 11. | 2008 | 11 | 16 | 17:02:32.7 | 1.271 | 122.091 | 30 | 7.3 | Minahasa, Sulawesi, Indonesia |
| 12. | 2008 | 11 | 24 | 09:02:58.7 | 54.203 | 154.322 | 492 | 7.3 | Sea of Okhotsk |

**A 6.5 vagy annál nagyobb magnitúdójú,
és a jelentősebb károkat okozó földrengések a világon 2008-ban**

**Earthquakes of magnitude 6.5 or greater
or ones that caused fatalities, injuries or substantial damage in 2008**

| DÁTUM | IDŐ Ó M S | KOORDINÁTA SZÉL HOSSZ | MÉLYSÉG MAG KM | ÁLLOMÁS SZÁM | RÉGIÓ, TOVÁBBI MAGNITÚDÓK, MEGJEGYZÉSEK |
|-------------|---------------------------------|---------------------------------------|-------------------|--------------------|--|
| DATE UTC | ORIGIN TIME UTC HR MN SEC | GEOGRAPHIC COORDINATES LAT LONG | DEPTH MAG SD | NO. STA USED | REGION, ADDITIONAL MAGNITUDES AND COMMENTS |
| JAN 01 | 06 32 27.9 | 40.288 N 72.985 E | 6 G 5.6 0.9 | 489 | KYRGYZSTAN. MW 5.6 (GCMT), 5.5 (GS). mb 5.8 (GS). MS 5.4 (GS). Mo 2.9*10**17 Nm (GCMT), 2.0*10**17 Nm (GS). At least 5,385 buildings damaged or destroyed (V) and about 5,300 people homeless in the Osh area. Felt at Jalal-Abad. Also felt at Kashi, China and at Almaty, Kazakhstan. |
| JAN 05 | 11 01 06.1 | 51.254 N 130.746 W | 15 G 6.6 1.3 | 422 | QUEEN CHARLOTTE ISLANDS REGION. MW 6.6 (UCMT), 6.6 (GCMT), 6.5 (GS), 6.5 (PGC). mb 6.0 (GS), MS 6.5 (GS), ME 6.9 (GS), Mo 9.8*10**18 Nm (UCMT), 9.6*10**18 Nm (GCMT), 7.5*10**18 Nm (GS), 7.4*10**18 Nm (PGC), 1.6*10**19 Nm (PPT), Es 5.5*10**14 Nm (GS). Felt (III) at Port Hardy, Sandspit and Skidegate, British Columbia. Also felt at Winter Harbour. |
| JAN 07 | 03 12 26.8 | 0.795 S 134.012 E | 12 G 5.9 0.9 | 253 | NEAR THE NORTH COAST OF PAPUA, INDONESIA. MW 5.9 (GCMT), 5.8 (GS), 5.8 (UCMT). mb 6.0 (GS), MS 5.6 (GS), ME 5.6 (GS), Mo 8.1*10**17 Nm (GCMT), 6.5*10**17 Nm (UCMT), 5.8*10**17 Nm (GS), Es 5.7*10**12 Nm (GS). Six people injured and more than 22 buildings damaged or destroyed (V) at Manokwari. Felt (III) at Nabire, Serui and Sorong. |
| JAN 09 | 22 24 03.8 | 35.616 N 0.570 W | 10 G 4.6 1.2 | 286 | NORTHERN ALGERIA. mb 4.6 (GS), ML 5.3 (ALG). One person killed and several buildings damaged (V) at Oran. |
| JAN 15 | 17 52 15.6 | 21.984 S 179.535 W | 598 D 6.5 1.0 | 484 | FIJI REGION. MW 6.5 (GS), 6.5 (UCMT), 6.5 (GCMT), mb 5.8 (GS), ME 5.7 (GS), Mo 7.3*10**18 Nm (GCMT), 6.4*10**18 Nm (GS), 6.3*10**18 Nm (UCMT), Es 7.9*10**12 Nm (GS). Felt at Lami. |
| JAN 22 | 17 14 57.9 | 1.011 N 97.442 E | 20 G 6.2 1.1 | 157 | NIAS REGION, INDONESIA. MW 6.2 (GS), 6.2 (GCMT), 6.1 (UCMT), mb 5.9 (GS), ME 6.1 (GS), Mo 2.5*10**18 Nm (GCMT), 2.4*10**18 Nm (GS), 1.6*10**18 Nm (UCMT), Es 3.6*10**13 Nm (GS). One person killed and five people injured on Nias. Several buildings damaged (V) at Gunungsitoli. Felt (IV) at Sibolga and Singkil and (II) at Padang, Sumatra. |
| FEB 01 | 07 33 40.5 | 36.825 N 3.473 E | 10 G 4.6 1.0 | 176 | NORTHERN ALGERIA. mb 4.6 (GS). Three people slightly injured at Boumerdas. Felt (III) at Algiers. Also felt at Bab Ezzouar and Birkhadem. |
| FEB 03 | 07 34 12.1 | 2.296 S 28.900 E | 10 G 5.9 0.8 | 415 | LAC KIVU REGION, DEM. REP. OF THE CONGO. MW 5.9 (GS), 5.9 (GCMT), mb 6.1 (GS), MS 5.8 (GS), ME 5.8 (GS), Mo 9.9*10**17 Nm (GCMT), 9.0*10**17 Nm (GS), Es 1.1*10**13 Nm (GS). Seven people killed, 447 injured, 1,087 houses destroyed and 2,378 buildings damaged at Bukavu. Power outages occurred in about 50 percent of the city. Thirty-seven people killed, 643 injured, 1,201 houses destroyed and 24 buildings damaged in the Cyangugu-Nyamasheke area, Rwanda. Felt (IV) at Butare and Kigali. Also felt at Bujumbura and Kirundo, Burundi; Kabanga and Rulenge, Tanzania; and Kabale, Uganda. |
| FEB 06 | 06 09 40.4 | 23.433 N 87.111 E | 10 G 4.3 1.1 | 34 | WEST BENGAL, INDIA. mb 4.3 (GS). One person killed and at least 50 injured in the Bankura area. Many buildings damaged at Andal, Durgapur and Panagarh. Felt strongly at Asansol, Bankura, Barjora, Gangajalghati, Mejia, Puruliya, Raniganj and Siuri. Also felt at Dhanbad, Govindpur, Jharia, Nirsra and Ranchi. |
| FEB 08 | 09 38 14.1 | 10.671 N 41.899 W | 9 G 6.9 0.9 | 600 | NORTHERN MID-ATLANTIC RIDGE. MW 6.9 (UCMT), 6.9 (GCMT), 6.8 (GS), mb 6.4 (GS), MS 6.9 (GS), ME 7.2 (GS), Mo 3.2*10**19 Nm (GCMT), 2.6*10**19 Nm (UCMT), 2.0*10**19 Nm (GS), Es 1.5*10**15 Nm (GS). |
| FEB 10 | 12 22 02.6 | 60.797 S 25.586 W | 8 G 6.6 1.1 | 264 | SOUTH SANDWICH ISLANDS REGION. MW 6.6 (UCMT), 6.5 (GS), 6.5 (GCMT), mb 6.4 (GS), MS 6.5 (GS), Mo 8.3*10**18 Nm (GCMT), 6.8*10**18 Nm (GS), 1.1*10**19 Nm (UCMT). |

A világ jelentős földrengései

Significant Earthquakes of the World

| | | | | | | | | |
|--------|-------------|----------|----------|------|-----|-----|-----|---|
| FEB 12 | 12 50 18.4 | 16.357 N | 94.304 W | 83 G | 6.5 | 1.0 | 521 | OAXACA, MEXICO. MW 6.5 (GCMT), 6.4 (GS), 6.4 (UCMT), mb 6.0 (GS), ME 6.2 (GS), MD 6.6 (UNM), Mo 6.3*10**18 Nm (GCMT), 5.9*10**18 Nm (UCMT), 5.1*10**18 Nm (GS), 4.2*10**18 Nm (PPT). Es 4.5*10**13 Nm (GS). Power outages occurred in the Tuxtla Gutierrez area. Felt (V) at Huatulco; (IV) at Jalapa, Oaxaca, San Cristobal de las Casas and Villahermosa; (III) at Huajuapán, Mexico, Puerto Escondido and Tuxtla Gutierrez. Also felt at Arriaga, Cancun, Cintalapa, Coatepec, Comitán, Cozumel, El Espinal, Etla, Mitla, Paraiso, Pochutla, Tapachula, Tehuacan, Tehuantepec, Tierra Blanca, Tuxpan, Tuxtepec, Veracruz and Xico. Felt (II) at Belize City and San Pedro, Belize. Also felt at Orange Walk and San Ignacio. Felt (II) at Guatemala, Guatemala. Also felt at Flores and Quetzaltenango. |
| FEB 13 | 20 55 31.5& | 31.730 N | 51.200 E | 14 | 4.5 | | 101 | CENTRAL IRAN. <THR>. mb 4.5 (GS), mbLg 4.3 (TEH), ML 4.2 (THR). Ten people injured and 70 buildings damaged at Nasirabad. |
| FEB 14 | 02 07 46.7 | 2.404 S | 28.918 E | 10 G | 5.3 | 0.8 | 274 | RWANDA. MW 5.3 (GCMT), mb 5.4 (GS), MS 4.9 (GS), Mo 9.5*10**16 Nm (GCMT). One person killed, 21 injured and homes damaged at Kigali and 5 buildings severely damaged at Ibanda. Felt at Butare and Ruhengeri. Forty-four people injured at Bukavu, Congo. Also felt at Rulenge, Tanzania. |
| FEB 14 | 10 09 22.7 | 36.501 N | 21.670 E | 29 G | 6.9 | 1.3 | 645 | SOUTHERN GREECE. MW 6.9 (GCMT), 6.7 (UCMT), 6.6 (GS), mb 6.2 (GS), MS 6.6 (GS), ME 6.6 (GS), ML 6.7 (THE), 6.2 (ATH), Mo 8.5*10**18 Nm (GS), 2.4*10**19 Nm (GCMT), 1.5*10**19 Nm (UCMT), 1.2*10**19 Nm (PPT). Es 1.9*10**14 Nm (GS). Felt (IV) at Amarousion, Iraklion, Kalamata, Palaion Faliron, Patrai and Piraeus; (III) at Agia Paraskevi, Athens, Chania, Kallithea, Khalandrión and Krionerion; (II) at Kifisia, Nea Ionia, Patania and Zografos. Also felt at Agios Dimitrios, Aigaleo, Aigion, Akharnai, Ayios Ioannis, Ayios Stefanos, Corinth, Ekali, Epidavros, Galatsion, Gazion, Glifadha, Itea, Kalivai, Kapandrition, Kato Achaia, Kerkyra, Kissamos, Koroni, Kounoupidhiana, Lefkimi, Markopoulon, Megara, Melissa, Metamorfosis, Methoni, Moskhaton, Nea Liosia, Nea Makri, Nea Smirni, Panteleimon, Peristerion, Pirgos, Psikhikon, Rafina, Skaramangas, Spata, Tripolis, Viron, Voula, Vouliagmeni and Zakynthos. Felt (III) at Cairo, Egypt. Also felt at Alexandria. Felt at Brindisi, Catania and Reggio di Calabria, Italy and in the Valletta area, Malta. |
| FEB 14 | 12 08 55.7 | 36.345 N | 21.863 E | 28 G | 6.5 | 1.2 | 650 | SOUTHERN GREECE. MW 6.5 (GCMT), 6.0 (UCMT), mb 5.9 (GS), MS 6.0 (GS), ME 6.1 (GS), ML 6.0 (ATH), Mo 8.1*10**18 Nm (GCMT), 1.3*10**18 Nm (UCMT). Es 3.7*10**13 Nm (GS). Felt (III) at Amarousion, Athens and Iraklion. Also felt at Agrinion, Ayios Stefanos, Ilioupoli, Kalamakion, Kalamata, Kallithea, Khalandrión, Khania, Kissamos, Metamorfosis, Nea Ionia, Patrai, Pilos, Piraeus, Sparta, Spata, Vlakhiotis, Voula and Yithion. Felt at Brindisi, Italy. |
| FEB 15 | 10 36 19.0 | 33.327 N | 35.305 E | 10 G | 5.1 | 1.1 | 253 | LEBANON - SYRIA REGION. MW 5.1 (GCMT), mb 5.0 (GS), ML 5.3 (GII), 5.1 (HLW), 4.6 (NIC), MD 5.0 (BHL), Mo 6.6*10**16 Nm (GCMT). Ten people injured in Lebanon. Buildings damaged (IV) and power outages occurred in the Beirut area, Lebanon. Felt at Baabda, Jounie, Nabatiye et Tahta, Tripoli and Tyre. Felt (V) at Rishon LeZiyyon; (IV) at Haifa and Netanya; (III) at Qiryat Shemona, Ramat Gan, Rehovot, Tel Aviv-Yafo and Zefat, Israel. Also felt at 'Akko, Bat Yam, Beersheba, Bene Beraq, Bet She'an, Bet Shemesh, Ganne Tiqwa, Hadera, Hazor, Kafr Qasim, Karimi'el, Kefar Sava, Nahariyya, Nazareth, Petah Tiqwa, Qadima, Qiryat Bialik, Qiryat Motzkin, Qiryat Ono, Qiryat Tiv'on, Ra'ananna, Tiberias, Yamma, Yoqne'am `Illit and Zikhron Ya'aqov. Felt (III) at Jerusalem. Felt (III) at Amman and (II) at Al Jubayhah, Jordan. Also felt at Irbid, Tila` al `Ali and Wadi as Sir. Felt (II) at Larnaca, Cyprus. Felt at Darayya and Qatana, Syria and at Jericho, West Bank. |
| FEB 20 | 08 08 30.5 | 2.768 N | 95.964 E | 26 G | 7.4 | 1.0 | 607 | SIMEULUE, INDONESIA. MW 7.4 (UCMT), 7.3 (GCMT), mb 6.5 (GS), MS 7.5 (GS), ME 7.1 (GS), Mo 1.6*10**20 Nm (UCMT), 1.1*10**20 Nm (GCMT), 1.1*10**20 Nm (PPT). Es 9.9*10**14 Nm (GS). Three people killed and 25 seriously injured in western Aceh Province, Sumatra. Felt (V) at Meulaboh; (IV) at Banda Aceh, Medan and Tapaktuan; (III) at Padang and Sibolga; (II) at Bukittinggi and Payakumbuh. Also felt at Duri and Lhokseumawe. Felt (III) at Gunungsitoli, Nias. Felt (III) at Butterworth, George Town, Kampong Gelugor, Kampung Sungai Ara, Kuala Lumpur, Petaling Jaya and Tanjong Tokong and (II) at Perai, Malaysia. Also felt at Alor Setar, Ayer Itam, Johor Bahru, Juru, Kajang-Sungai Chua, |

| | | | | | | | | | | | |
|--------|-------------|----------|-----------|------|-----|-----|---|---|--|--|---|
| | | | | | | | | | | | Kampong Baharu Balakong, Kampung Tanjung Bongor, Kampung Tanjung Karang, Klang, Kuah, Kulim, Nibung Tebal and Shah Alam. Felt (III) in Singapore. Also felt at Kathu, Thailand. |
| FEB 21 | 14 16 02.7& | 41.153 N | 114.867 W | 7 | 6.0 | 518 | NEVADA. <REN>. MW 6.0 (UCMT), 6.0 (GCMT), 5.8 (GS), 5.9 (BRK), 5.9 (SLM), mb 5.7 (GS), MS 5.8 (GS), ME 5.7 (GS), Mo 6.8*10**17 Nm (GS), 1.4*10**18 Nm (GCMT), 1.3*10**18 Nm (UCMT), 8.3*10**17 Nm (SLM), 1.0*10**18 Nm (BRK). Es 8.9*10**12 Nm (GS). Three people injured, more than 20 buildings heavily damaged, almost 700 buildings slightly damaged and a water main broken at Wells. Felt (VI) at Wells, with maximum intensity VIII in the Historic District. Felt (V) at Jackpot; (IV) at Battle Mountain, Carlin, Elko, Mountain City and Spring Creek; (III) at Ely, Eureka, Golconda, Lovelock and Winnemucca. Also felt at Las Vegas and Reno. Felt (V) at Grand View and Rogerson; (IV) at Castleford, Filer, Hansen, Heyburn, Malad City, Malta, Paul, Rupert, Twin Falls and Wendell; (III) at American Falls, Bellevue, Boise, Buhl, Burley, Caldwell, Declo, Dietrich, Emmett, Fairfield, Garden Valley, Glens Ferry, Gooding, Hagerman, Hailley, Hazelton, Idaho City, Inkom, Jerome, Ketchum, Kimberly, Middleton, Murtaugh, Nampa, Oakley, Pocatello and Shoshone, Idaho. Also felt (V) at Wendover; (IV) at Farmington, Garland and Snowville; (III) at American Fork, Brigham City, Clearfield, Corinne, Draper, Dugway, Grantsville, Hill AFB, Honeyville, Hooper, Hyde Park, Hyrum, Layton, Lehi, Logan, Ogden, Plymouth, Provo, Richmond, Roy, Sandy, Salt Lake City, Stockton, Syracuse, Tooele, Tremonton, Vernon and West Jordan, Utah. The earthquake was felt in most of Idaho and Nevada, in southeastern Oregon and northwestern Utah, in parts of California and Wyoming, and at Spokane, Washington. Isolated felt reports were received from as far away as Phoenix and Tucson, Arizona; Oakland and Pasadena, California; Brighton, Colorado; Absarokee and Livingston, Montana; Corvallis and Portland, Oregon; and Albuquerque, New Mexico. | | | | |
| FEB 23 | 15 57 20.4 | 57.335 S | 23.433 W | 14 G | 6.8 | 1.1 | 338 | SOUTH SANDWICH ISLANDS REGION. MW 6.8 (GCMT), 6.7 (UCMT), mb 6.2 (GS), MS 6.7 (GS), ME 6.9 (GS), Mo 1.7*10**19 Nm (GCMT), 1.6*10**19 Nm (UCMT), 2.9*10**19 Nm (PPT). Es 5.7*10**14 Nm (GS). | | | |
| FEB 24 | 14 46 21.4 | 2.405 S | 99.931 E | 22 G | 6.5 | 1.0 | 429 | KEPULAUAN MENTAWAI REGION, INDONESIA. MW 6.5 (GCMT), 6.2 (GS), 6.2 (UCMT), mb 6.0 (GS), MS 6.4 (GS), ME 6.0 (GS), Mo 6.9*10**18 Nm (GCMT), 2.8*10**18 Nm (GS), 2.6*10**18 Nm (UCMT). Es 2.0*10**13 Nm (GS). Felt (III) at Padang and (II) at Bengkulu, Sumatra. Also felt (II) in Singapore. | | | |
| FEB 25 | 08 36 33.0 | 2.486 S | 99.972 E | 25 G | 7.2 | 1.2 | 505 | KEPULAUAN MENTAWAI REGION, INDONESIA. MW 7.2 (GCMT), 7.0 (UCMT), 6.9 (GS), mb 6.4 (GS), MS 7.3 (GS), ME 7.1 (GS), Mo 7.8*10**19 Nm (GCMT), 3.9*10**19 Nm (UCMT), 2.5*10**19 Nm (GS), 2.5*10**19 Nm (PPT). Es 8.5*10**14 Nm (GS). Felt (III) at Pekanbaru, Sumatra. Also felt at Curup, Duri and Padang. Felt (III) at Johor Bahru, Malaysia. Also felt at George Town, Kuala Lumpur and Petaling Jaya. Felt (III) in Singapore. | | | |
| FEB 25 | 18 06 03.9 | 2.332 S | 99.891 E | 25 G | 6.6 | 1.0 | 421 | KEPULAUAN MENTAWAI REGION, INDONESIA. MW 6.6 (GCMT), 6.3 (GS), 6.3 (UCMT), mb 6.0 (GS), MS 6.4 (GS), ME 6.4 (GS), Mo 4.0*10**18 Nm (UCMT), 3.2*10**18 Nm (GS), 1.0*10**19 Nm (GCMT). Es 8.9*10**13 Nm (GS). Felt (V) on Pulau Sipura and (IV) on Siberut. Also felt (IV) at Padang and Painan; (II) at Argamakmur, Batusangkar, Bukittinggi, Kapahiang, Mukomuko, Padangpanjang and Solok, Sumatra. Felt (II) in Singapore. | | | |
| FEB 25 | 21 02 18.4 | 2.245 S | 99.808 E | 25 G | 6.7 | 0.9 | 543 | KEPULAUAN MENTAWAI REGION, INDONESIA. MW 6.7 (GCMT), 6.6 (UCMT), 6.5 (GS), mb 6.2 (GS), MS 6.6 (GS), ME 6.7 (GS), Mo 6.5*10**18 Nm (GS), 1.5*10**19 Nm (GCMT), 1.0*10**19 Nm (UCMT). Es 2.6*10**14 Nm (GS). Several homes damaged at Sikakap. Felt (V) on Mentawai and at Painan; (IV) at Padang; (III) at Pari; (II) at Bukittinggi, Kapahiang, Padangpanjang and Payakumbuh, Sumatra. Felt (III) in Singapore. | | | |
| FEB 27 | 00 56 47.8& | 53.403 N | 0.332 W | 18 | 4.8 | 361 | ENGLAND, UNITED KINGDOM. <BGS>. mb 4.8 (GS), ML 5.3 (GRF), 5.3 (STR), 5.2 (BGS). One person injured and buildings damaged in Lincolnshire and South Yorkshire. Felt (V) at Barnsley, Bedworth, Beeston and Stapleford, Bentley, Beverley, Bicester, Boston, Brigg, Brighouse, Chesterfield, Chorley, Doncaster, Droitwich, East Retford, Eaton Socon, Failsworth, Grantham, Grimsby, Heywood, Hinckley, Ilkeston, Kingston upon Hull, Leicester, Lincoln, Long Eaton, Loughborough, Mablethorpe and Sutton, Mansfield, Matlock, Melton Mowbray, Mold, Morley, Newark, Rotherham, Scunthorpe, Sheffield, Skegness, Sleaford, | | | | |

A világ jelentős földrengései

Significant Earthquakes of the World

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|--------|-------------|----------|-----------|------|-----|-----|-----|---|--|---|
| | | | | | | | | | | Spalding-Pinchbeck, Stamford, Whitefield and Worksop. Felt widely in the United Kingdom, north to Arbroath, southwest to Falmouth-Penryn and east to Great Yarmouth. Also felt at Douglas, Isle of Man; Antwerp, Brussels and Gent, Belgium; Aniche, France; Letterkenny, Ireland and Haarlem, The Netherlands. |
| MAR 03 | 09 31 02.5 | 46.406 N | 153.175 E | 10 G | 6.5 | 1.1 | 556 | KURIL ISLANDS. MW 6.5 (UCMT). 6.5 (GCMT). 6.3 (GS). mb 6.2 (GS). MS 6.5 (GS). ME 6.4 (GS). Mo 6.5×10^{18} Nm (GCMT), 6.4×10^{18} Nm (UCMT), 3.5×10^{18} Nm (GS), 1.0×10^{19} Nm (PPT). Es 1.0×10^{14} Nm (GS). | | |
| MAR 03 | 14 11 14.6 | 13.351 N | 125.630 E | 24 G | 6.9 | 0.9 | 544 | PHILIPPINE ISLANDS REGION. MW 6.9 (UCMT). 6.9 (GCMT). 6.8 (GS). mb 6.4 (GS). ME 6.8 (GS). Mo 2.6×10^{19} Nm (UCMT), 2.6×10^{19} Nm (GCMT), 1.8×10^{19} Nm (GS), 1.1×10^{19} Nm (PPT). Es 3.4×10^{14} Nm (GS). Felt (V PIVS) at San Andres and Virac, Catanduanes. Felt (V PIVS) at Catarman and (III PIVS) at Borongan and Can-Avid, Samar. Felt (V PIVS) at Baao, Iriga and Naga; (IV PIVS) at Daet, Legaspi and Sorsogon; (II PIVS) at Baguio and Guinayangan; (I PIVS) at Manila and Taguig, Luzon. Felt (III PIVS) at Palo and Tacloban, Leyte. Felt (III PIVS) at Iloilo and Roxas City, Panay. Felt (II PIVS) at Cebu City, Cebu and at Masbate, Masbate. Felt at Solano, Luzon. | | |
| MAR 20 | 22 32 57.9 | 35.490 N | 81.467 E | 10 G | 7.2 | 1.0 | 532 | XINJIANG-XIZANG BORDER REGION. MW 7.2 (UCMT). 7.1 (GCMT). mb 6.3 (GS). MS 7.3 (GS). ME 6.7 (GS). Mo 8.3×10^{19} Nm (UCMT), 5.4×10^{19} Nm (GCMT), 1.4×10^{20} Nm (PPT). Es 2.6×10^{14} Nm (GS). Four houses collapsed at Pulu and about 2,200 houses destroyed or damaged in Lop, Qira and Yutian. A total of 46,594 people were displaced in Xinjiang. Felt at Aqqan and Bostan. | | |
| MAR 29 | 12 51 24.7 | 12.178 S | 77.164 W | 51 D | 5.3 | 0.9 | 283 | NEAR THE COAST OF CENTRAL PERU. MW 5.3 (GS). 5.3 (GCMT). mb 5.4 (GS). Mo 9.7×10^{16} Nm (GS), 1.1×10^{17} Nm (GCMT). Five houses collapsed in Lima and a rockslide caused an injury and vehicle damage along the coastal highway. Felt (V) at Lima; (IV) at Ancon, Callao, Chillca, Chosica, Huaral and Pachacamac; (III) at Calango, Huacho, Ica and San Vicente de Canete; (II) at Chinchá Alta. Also felt at Chaclacayo. | | |
| APR 09 | 12 46 12.7 | 20.071 S | 168.892 E | 33 G | 7.3 | 1.3 | 486 | LOYALTY ISLANDS. MW 7.3 (UCMT). 7.3 (GCMT). 7.2 (GS). mb 6.3 (GS). MS 7.3 (GS). ME 6.9 (GS). Mo 9.9×10^{19} Nm (UCMT), 7.6×10^{19} Nm (GS), 1.1×10^{20} Nm (GCMT), 1.3×10^{20} Nm (PPT). Es 5.2×10^{14} Nm (GS). | | |
| APR 12 | 00 30 12.6 | 55.664 S | 158.453 E | 16 G | 7.1 | 1.0 | 541 | MACQUARIE ISLAND REGION. MW 7.1 (UCMT). 7.1 (GCMT). 6.8 (GS). mb 6.8 (GS). MS 7.1 (GS). ME 6.9 (GS). Mo 6.3×10^{19} Nm (UCMT), 5.5×10^{19} Nm (GCMT), 1.9×10^{19} Nm (GS), 9.7×10^{19} Nm (PPT). Es 4.4×10^{14} Nm (GS). | | |
| APR 16 | 05 54 19.6 | 51.878 N | 179.165 W | 13 G | 6.6 | 0.9 | 676 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA. MW 6.6 (UCMT). 6.6 (GCMT). 6.5 (GS). mb 6.1 (GS). MS 6.5 (GS). ME 7.2 (GS). Mo 9.8×10^{18} Nm (GCMT), 8.5×10^{18} Nm (UCMT), 7.1×10^{18} Nm (GS), 1.0×10^{19} Nm (PPT). Es 1.5×10^{15} Nm (GS). Felt on Adak. | | |
| APR 24 | 12 14 49.9 | 1.182 S | 23.471 W | 10 G | 6.5 | 0.9 | 328 | CENTRAL MID-ATLANTIC RIDGE. MW 6.5 (UCMT). 6.5 (GCMT). 6.3 (GS). mb 5.4 (GS). MS 6.0 (GS). Mo 6.3×10^{18} Nm (GCMT), 6.1×10^{18} Nm (UCMT), 3.7×10^{18} Nm (GS). | | |
| MAY 01 | 00 15 27.48 | 33.860 N | 48.590 E | 16 | 4.5 | | 122 | WESTERN IRAN. <TEH>. mb 4.5 (GS). mbLg 4.7 (TEH). ML 4.7 (THR). More than 100 people injured in Lorestan, including at least 70 people injured at Boroujerd. | | |
| MAY 02 | 01 33 37.2 | 51.864 N | 177.528 W | 14 G | 6.6 | 1.2 | 661 | ANDREANOF ISLANDS, ALEUTIAN IS., ALASKA. MW 6.6 (UCMT). 6.6 (GCMT). 6.5 (GS). mb 6.3 (GS). MS 6.8 (GS). ME 7.1 (GS). Mo 9.7×10^{18} Nm (GCMT), 7.7×10^{18} Nm (GS), 1.1×10^{19} Nm (UCMT), 1.1×10^{19} Nm (PPT). Es 1.0×10^{15} Nm (GS). Felt on Adak. | | |
| MAY 07 | 16 45 18.7 | 36.164 N | 141.526 E | 27 G | 6.9 | 0.8 | 519 | NEAR THE EAST COAST OF HONSHU, JAPAN. MW 6.9 (GCMT). 6.8 (UCMT). 6.7 (GS). 6.8 (NIED). mb 6.1 (GS). MS 6.7 (GS). ME 6.6 (GS). Mo 2.4×10^{19} Nm (GCMT), 2.2×10^{19} Nm (UCMT), 1.2×10^{19} Nm (GS), 2.3×10^{19} Nm (PPT), 2.0×10^{19} Nm (NIED). Es 1.7×10^{14} Nm (GS). Six people slightly injured in Chiba, Ibaraki, Saitama and Tokyo. Power outages occurred at Tsukuba. Felt (V) at Tsukuba; (IV) at Tokyo and Zushi; (III) at Atsugi, Ayase-shi, Misawa, Narita, Yokohama and Yokosuka. Felt throughout northern and east-central Honshu. Recorded (5L JMA) in Ibaraki and Tochigi; (4 JMA) in Chiba, Fukushima, Miyagi and Saitama; (2 JMA) throughout northern Honshu. | | |

Significant Earthquakes of the World

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| MAY 09 | 21 51 29.7 | 12.516 N | 143.181 E | 76 G | 6.8 | 1.0 | 330 | GUAM REGION. MW 6.8 (GCMT), 6.7 (UCMT), 6.6 (GS), mb 6.1 (GS), ME 6.8 (GS), Mo 1.7*10**19 Nm (GCMT), 1.6*10**19 Nm (UCMT), 1.1*10**19 Nm (GS), 1.1*10**19 Nm (PPT), Es 3.0*10**14 Nm (GS). Felt (IV) at Barrigada, Hagatna, Santa Rita, Tamuning and Yigo. Felt at Agat. Felt (II) on Saipan and also felt on Tinian, Northern Mariana Islands. |
| MAY 12 | 06 28 01.5 | 31.002 N | 103.322 E | 19 G | 7.9 | 1.2 | 774 | EASTERN SICHUAN, CHINA. MW 7.9 (UCMT), 7.9 (GCMT), mb 6.9 (GS), MS 8.1 (GS), ME 7.7 (GS), Mo 9.0*10**20 Nm (GCMT), 7.6*10**20 Nm (UCMT), 1.3*10**21 Nm (PPT), Es 7.7*10**15 Nm (GS). At least 69,195 people killed, 374,177 injured and 18,392 missing and presumed dead in the Chengdu-Lixian-Guangyuan area. More than 45.5 million people in 10 provinces and regions were affected. At least 15 million people were evacuated from their homes and more than 5 million were left homeless. An estimated 5.36 million buildings collapsed and more than 21 million buildings were damaged in Sichuan and in parts of Chongqing, Gansu, Hubei, Shaanxi and Yunnan. The total economic loss was estimated at 86 billion US dollars. Beichuan, Dujiangyan, Wuolong and Yingxiu were almost completely destroyed. Landslides and rockfalls damaged or destroyed several mountain roads and railways and buried buildings in the Beichuan-Wenchuan area, cutting off access to the region for several days. At least 700 people were buried by a landslide at Qingchuan. Landslides also dammed several rivers, creating 34 barrier lakes which threatened about 700,000 people downstream. A train was buried by a landslide near Longnan, Gansu. At least 2,473 dams sustained some damage and more than 53,000 km of roads and 48,000 km of tap water pipelines were damaged. About 1.5 km of surface faulting was observed near Qingchuan, surface cracks and fractures occurred on three mountains in the area, and subsidence and street cracks were observed in the city itself. Maximum intensity XI was assigned in the Wenchuan area. Felt (VIII) at Deyang and Mianyang; (VII) at Chengdu; (VI) at Luzhou and Xi'an; (V) at Chongqing, Guozhen, Lanzhou, Leshan, Wu'an, Xichang and Ya'an. Felt in much of central, eastern and southern China, including Beijing, Guangzhou, Hefei, Nanjing, Shanghai, Tianjin, Wuhan and in Hong Kong. Also felt in parts of Bangladesh, Taiwan, Thailand and Vietnam. Seiches were observed at Kotalipara, Bangladesh. |
| MAY 23 | 19 35 34.7 | 7.313 N | 34.897 W | 8 G | 6.5 | 0.9 | 556 | CENTRAL MID-ATLANTIC RIDGE. MW 6.5 (UCMT), 6.5 (GCMT), 6.4 (GS), mb 6.0 (GS), MS 6.4 (GS), ME 7.0 (GS), Mo 6.6*10**18 Nm (UCMT), 6.4*10**18 Nm (GCMT), 4.5*10**18 Nm (GS), Es 6.7*10**14 Nm (GS). |
| MAY 24 | 19 20 42.4 | 4.330 N | 73.764 W | 9 | 5.9 | 1.0 | 466 | COLOMBIA. MW 5.9 (UCMT), 5.9 (GCMT), mb 5.6 (GS), MS 5.6 (GS), ML 5.7 (RSNC), Mo 8.3*10**17 Nm (UCMT), 8.0*10**17 Nm (GCMT). At least 6 people killed by a landslide in Meta. Several buildings damaged at Quetame. Felt (V) at Bogota, (IV) at Chia and (III) at Medellin. Felt widely in Colombia. |
| MAY 25 | 08 21 49.9 | 32.560 N | 105.423 E | 18 G | 6.1 | 0.7 | 397 | SICHUAN-GANSU BORDER REGION, CHINA. MW 6.1 (GCMT), 6.0 (GS), 6.0 (UCMT), mb 5.8 (GS), MS 6.0 (GS), Mo 1.6*10**18 Nm (GCMT), 1.1*10**18 Nm (GS), 1.1*10**18 Nm (UCMT). Eight people killed, 927 injured, at least 400,000 homes destroyed and a road blocked by a mudslide in Sichuan. Felt (IV) at Chengdu, Lanzhou and Xi'an; (III) at Chongqing. Also felt at Baoji, Dawan, Jiexiu, Xianyang, Yanan and Zigong. |
| MAY 27 | 08 37 51.5 | 32.710 N | 105.540 E | 10 G | 5.7 | 0.8 | 366 | SICHUAN-GANSU BORDER REGION, CHINA. MW 5.7 (UCMT), 5.5 (GCMT), mb 5.5 (GS), MS 5.2 (GS), Mo 4.3*10**17 Nm (UCMT), 2.1*10**17 Nm (GCMT). About 20,000 additional houses destroyed in Shaanxi and Sichuan. Felt (III) at Chengdu and Xi'an. Also felt at Baoji, Chongqing, Hanzhong, Lanzhou, Pingliang and Xianyang. |
| MAY 29 | 15 46 00.3 | 64.005 N | 21.013 W | 9 G | 6.3 | 1.0 | 591 | ICELAND. MW 6.3 (GCMT), 6.2 (GS), 6.2 (UCMT), mb 5.9 (GS), MS 6.2 (GS), ME 6.7 (GS), ML 6.1 (REY), Mo 3.4*10**18 Nm (GCMT), 2.7*10**18 Nm (UCMT), 2.3*10**18 Nm (GS), Es 2.2*10**14 Nm (GS). About 30 people injured at Selfoss. Some sheep were killed, buildings damaged and utilities cut off in the Hveragerdhi-Selfoss area. The road between Reykjavik and Selfoss was damaged and rockslides occurred in Vestmannaeyjum. A steaming fissure opened in an existing area of geothermal springs. Felt (VIII) at Hveragerdhi and Selfoss; (V) at Keflavik; (IV) at Hafnarfjordhur, Kopavogur and Reykjavik. Felt at Akranes, Akureyri, Alftanes, Borgarnes, Eyrarbakki, Hvammstangi, Isafjordhur, Laugaras, Reykholar, Reykholt, Saudharkrokur and in Mosfellsbaer. Also felt on Seltjarnarnes and Vestmannaeyjar. |
| JUN 01 | 14 31 03.0 | 59.384 S | 149.660 E | 10 G | 6.5 | 1.2 | 157 | WEST OF MACQUARIE ISLAND. MW 6.5 (GS), 6.5 (UCMT), 6.5 (GCMT), mb |

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| | | | | | | | | | | | 5.8 (GS). MS 6.3 (GS). Mo 7.7*10**18 Nm (UCMT). 6.9*10**18 Nm (GCMT). 6.5*10**18 Nm (GS). 3.6*10**18 Nm (PPT). |
| JUN 06 | 20 02 56.8 | 35.883 N | 0.658 W | 4 G | 5.5 | 1.1 | 476 | | | | NORTHERN ALGERIA. MW 5.5 (GS), 5.5 (UCMT), 5.5 (GCMT). mb 5.5 (GS). MS 5.3 (GS). ML 5.5 (ALG). Mo 2.5*10**17 Nm (UCMT), 2.2*10**17 Nm (GS), 2.2*10**17 Nm (GCMT). One person killed by a rockfall and more than 30 people injured in the Oran area. Several homes were destroyed at Gambetta. Felt (VI) at Mostaganem and Oran. Felt at Hassi Mameche and Sidi Bel Abbes. Also felt at HuercaI-Overa, Lumbreras, Mazarron and Torrevieja, Spain. |
| JUN 06 | 21 16 33.8 | 24.702 N | 84.964 E | 11 * | 3.8 | 0.8 | 27 | | | | BIHAR-JHARKHAND BORDER REGION, INDIA. mb 3.8 (GS). At least 2 people injured, minor damage and power outages occurred in the Manpur area. Felt at Atri, Gaya, Gararu, Paraiya and Tankuppa. |
| JUN 08 | 12 25 29.7 | 37.963 N | 21.525 E | 16 G | 6.4 | 1.5 | 706 | | | | SOUTHERN GREECE. MW 6.4 (GCMT), 6.3 (UCMT), 6.2 (GS). mb 6.2 (GS). MS 6.3 (GS). ME 7.0 (GS). ML 6.5 (ATH). Mo 4.6*10**18 Nm (GCMT), 3.1*10**18 Nm (UCMT), 2.5*10**18 Nm (GS). Es 6.3*10**14 Nm (GS). Two people killed, at least 240 injured and at least 1,156 buildings damaged or destroyed in Achaia and Ileia. Felt (VIII) at Kato Achaia; (VII) at Patrai and Rion; (VI) at Agrinion; (V) at Corinth, Tripolis and Zakynthos; (IV) at Agia Paraskevi, Aigina, Argostolion, Athens, Ioannina, Kallithea, Karditsa, Kifisia, Nydri, Preveza, Trikala and Volos; (III) at Amarousion, Galatsion, Glifadha, Kalamakion, Kalandrion, Larisa, Nea Erithraia, Nea Ionia, Nea Smirni, Nikaia, Palaion Faliron and Piraeus; (II) at Aigaleo, Chani, Korydallos and Voula. Felt in most parts of Greece. Also felt at Tirana, Albania; Barletta, Brindisi, Cosenza, Lecce, Matera, Naples and Taranto, Italy; Ohrid, Macedonia. |
| JUN 13 | 23 43 45.3& | 39.030 N | 140.881 E | 8 | 6.9 | | 654 | | | | EASTERN HONSHU, JAPAN. <JMA>. MW 6.9 (GCMT), 6.8 (GS), 6.8 (UCMT), 6.9 (NIED). mb 6.5 (GS). MS 7.0 (GS). ME 6.7 (GS). Mo 2.6*10**19 Nm (GCMT), 2.3*10**19 Nm (UCMT), 1.9*10**19 Nm (GS), 7.5*10**19 Nm (PPT), 2.7*10**19 Nm (NIED). Es 2.6*10**14 Nm (GS). At least 13 people killed, 357 injured, 614 buildings damaged and landslides occurred in the Furukawa-Kurihara-Morioka area. Felt (VII) at Furukawa; (VI) at Sendai; (IV) at Misawa and Tsukuba; (III) at Tokyo. Felt as far north as Hirosaki and as far south as Yokohama. Recorded (6U JMA) in Iwate and Miyagi; (5U JMA) in Akita; (5L JMA) in Fukushima and Yamagata; (4 JMA) throughout northern Honshu. Recorded (1 JMA) as far south as Aichi. Recorded (3 JMA) in southwestern Hokkaido, (2 JMA) in the Tomakomai-Shizunai area and (1 JMA) throughout southern Hokkaido. |
| JUN 17 | 05 51 43.2 | 32.761 N | 105.554 E | 10 G | 4.8 | 1.1 | 108 | | | | SICHUAN-GANSU BORDER REGION, CHINA. mb 4.8 (GS). Two people killed and one injured in Shaanxi. |
| JUN 27 | 11 40 13.9 | 11.005 N | 91.824 E | 17 G | 6.6 | 0.9 | 630 | | | | ANDAMAN ISLANDS, INDIA REGION. MW 6.6 (UCMT), 6.6 (GCMT), 6.4 (GS). mb 6.4 (GS). MS 6.7 (GS). ME 6.9 (GS). Mo 9.6*10**18 Nm (UCMT), 8.8*10**18 Nm (GCMT), 5.4*10**18 Nm (GS), 2.2*10**19 Nm (PPT). Es 5.3*10**14 Nm (GS). Felt (IV) at Port Blair and (II) at Chennai. Also felt at Bhubaneshwar and Tambaram. |
| JUN 30 | 06 17 43.0 | 58.227 S | 22.099 W | 8 G | 7.0 | 1.4 | 309 | | | | SOUTH SANDWICH ISLANDS REGION. MW 7.0 (UCMT), 7.0 (GCMT), 6.9 (GS). mb 6.1 (GS). MS 6.7 (GS). ME 7.6 (GS). Mo 3.4*10**19 Nm (UCMT), 3.4*10**19 Nm (GCMT), 2.4*10**19 Nm (GS), 9.2*10**18 Nm (PPT). Es 4.9*10**15 Nm (GS). |
| JUL 01 | 00 17 33.2 | 10.368 S | 75.512 W | 33 | 5.5 | 0.9 | 362 | | | | CENTRAL PERU. MW 5.5 (GCMT). mb 5.4 (GS). MS 5.0 (GS). ML 5.3 (LIM). Mo 1.9*10**17 Nm (GCMT). Forty-five people injured in Oxapampa. About 60 houses destroyed and 25 damaged in Huancabamba. Landslides destroyed roads between Huancabamba and Pozuzo. Felt (VI) at Espiritu Pata, Huancabamba, Jatunpata, Lanturache, Tingo and Torrebamba; (III) at Chotabanda, Oxapampa, Palcazu and Pozuzo; (II) at Puerto Bermudez and Villa Rica. |
| JUL 05 | 02 12 04.4 | 53.882 N | 152.886 E | 633 | 7.7 | 0.8 | 777 | | | | SEA OF OKHOTSK. MW 7.7 (GS), 7.7 (UCMT), 7.7 (GCMT). mb 6.8 (GS). Mo 4.3*10**20 Nm (GS), 4.2*10**20 Nm (GCMT), 4.0*10**20 Nm (UCMT), 2.0*10**20 Nm (PPT). Felt at Klyuchi, Petropavlovsk-Kamchatskiy and Yuzhno-Sakhalinsk, Russia. Recorded (2 JMA) in eastern and northern Hokkaido, Japan. Also recorded (2 JMA) in Miyagi and (1 JMA) in Akita, Aomori, Iwate and Yamagata, Honshu. |
| JUL 08 | 09 13 07.4 | 15.986 S | 71.748 W | 123 G | 6.2 | 0.9 | 467 | | | | SOUTHERN PERU. MW 6.2 (GS), 6.2 (UCMT), 6.2 (GCMT). mb 5.8 (GS). ME 6.0 (GS). Mo 2.5*10**18 Nm (GCMT), 2.2*10**18 Nm (GS), 2.2*10**18 Nm (UCMT). Es 2.2*10**13 Nm (GS). One person killed and several buildings damaged (V) at Arequipa. Felt (V) at Aplao |

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| | | | | | | | | | | | and Sihuas; (IV) at Chivay, Chuquibamba and Pampacolca. Felt at Ilo. Also felt (IV) at Arica and Putre; (III) at Alcerreca and Tacora; (II) at Alto Hospicio, Camina, Huara, Iquique, Pica and Pozo Almonte, Chile. |
| JUL 15 | 03 26 34.7 | 35.800 N | 27.860 E | 52 G | 6.4 | 1.4 | 774 | DODECANESE ISLANDS, GREECE. MW 6.4 (UCMT), 6.4 (GCMT), 6.3 (GS). mb 6.5 (GS). ME 6.5 (GS). Mo 4.5×10^{18} Nm (GCMT), 4.4×10^{18} Nm (UCMT), 3.2×10^{18} Nm (GS). Es 1.3×10^{14} Nm (GS). One person killed on Rhodes. Felt (VII) at Trianta, (VI) at Lardos, (V) at Rodos and (III) at Iraklion and Kos. Also felt at Afantou, Antimacheia, Ayios Nikolaos, Chania, Gazion, Ierapetra, Kallithea, Karpathos, Kissamos, Kolimvarion, Masari, Neapolis, Oia, Rethymnon, Soroni, Thira and on Simi. Felt (V) at Marmaris, (IV) at Alanya and Bodrum and (III) at Fethiye, Turkey. Also felt at Antalya, Aydin, Izmir, Kusadasi, Milas, Mugla, Soke and Urla. Felt (III) at Paphos and (II) at Limassol, Cyprus. Also felt at Kyrenia, Nicosia and Polis. Felt (III) at Alexandria, Al Jizah and Cairo, Egypt. Also felt at Az Zaqaqiy, Damanhur, Fa'id and Tanta. Felt at Kefar Sava and Haifa, Israel; at Beirut, Lebanon; at Ramallah, West Bank and at Damascus, Syria. | | | |
| JUL 19 | 02 39 28.7 | 37.552 N | 142.214 E | 22 G | 7.0 | 0.8 | 577 | OFF THE EAST COAST OF HONSHU, JAPAN. MW 7.0 (UCMT), 6.9 (GCMT), 6.8 (GS). mb 6.2 (GS). MS 7.0 (GS). ME 6.6 (GS). Mo 3.8×10^{19} Nm (UCMT), 3.1×10^{19} Nm (GCMT), 2.2×10^{19} Nm (GS), 2.9×10^{19} Nm (PPT). Es 1.9×10^{14} Nm (GS). Felt (III) at Misawa, Tokyo and Yokohama; (II) at Yamato. Felt as far west as Niigata and as far south as Mishima. A small tsunami was observed along the coast of Fukushima and Miyagi. Recorded (4 JMA) in Fukushima, Iwate, Miyagi and Tochigi; (3 JMA) in Akita, Aomori, Chiba, Gumma, Ibaraki, Kanagawa, Nagano, Niigata, Saitama, Tokyo, Yamagata and Yamanashi; (2 JMA) in Aichi and Shizuoka; (1 JMA) in Gifu, Ishikawa and Shiga. Also recorded (2 JMA) in southern Hokkaido and (1 JMA) on Nii-jima. | | | |
| JUL 19 | 09 27 01.4 | 11.041 S | 164.493 E | 11 G | 6.6 | 0.9 | 452 | SANTA CRUZ ISLANDS REGION. MW 6.6 (GS), 6.6 (UCMT), 6.6 (GCMT). mb 6.1 (GS). MS 6.4 (GS). ME 6.4 (GS). Mo 8.9×10^{18} Nm (GCMT), 8.8×10^{18} Nm (UCMT), 8.7×10^{18} Nm (GS), 2.4×10^{19} Nm (PPT). Es 7.9×10^{13} Nm (GS). | | | |
| JUL 23 | 15 26 19.9 | 39.802 N | 141.464 E | 108 G | 6.8 | 0.9 | 633 | EASTERN HONSHU, JAPAN. MW 6.8 (GS), 6.8 (UCMT), 6.8 (GCMT). mb 6.6 (GS). ME 6.7 (GS). Mo 2.0×10^{19} Nm (GS), 1.9×10^{19} Nm (UCMT), 1.8×10^{19} Nm (GCMT), 9.8×10^{18} Nm (PPT). Es 2.8×10^{14} Nm (GS). One person killed, about 200 injured, 90 buildings damaged, landslides occurred, roads closed, train service and power disrupted in northern Honshu. Felt (VII) at Misawa; (IV) in Ayase-shi and at Tsukuba; (III) at Narita, Ome, Tokyo, Yokohama and Yokosuka. Also felt (III) at Sapporo, Hokkaido. Felt widely in southwestern Hokkaido and in Honshu as far south as the Tokyo area. Recorded (6U JMA) in Iwate; (6L JMA) in Aomori; (5U JMA) in Miyagi; (4 JMA) in Akita, Fukushima, Ibaraki and Yamagata; (3 JMA) in Chiba, Gumma, Kanagawa, Niigata, Saitama, Tochigi and Tokyo; (2 JMA) in Ishikawa, Nagano, Shizuoka and Yamanashi; (1 JMA) in Aichi, Fukui and Shiga. Also recorded (4 JMA) in eastern and southern Hokkaido; (2 JMA) on Hachijo-jima, Miyake-jima and O-shima; (1 JMA) on Aogo-shima, Kozu-shima and Mikura-jima. | | | |
| JUL 23 | 19 54 45.1 | 32.748 N | 105.497 E | 10 G | 5.5 | 0.9 | 370 | SICHUAN-GANSU BORDER REGION, CHINA. MW 5.5 (UCMT), 5.5 (GCMT). mb 5.7 (GS). MS 5.2 (GS). Mo 2.5×10^{17} Nm (UCMT), 2.1×10^{17} Nm (GCMT). Casualties and damage are included with the event on July 24 at 07:09 UTC. Felt (IV) at Baoji and Hanzhong; (III) at Xi'an. Felt at Ankang, Chengdu, Deyang, Guangyuan, Leshan, Mianyang and Nanchong. | | | |
| JUL 24 | 07 09 30.0 | 32.747 N | 105.542 E | 10 G | 5.7 | 1.0 | 395 | SICHUAN-GANSU BORDER REGION, CHINA. MW 5.7 (UCMT), 5.6 (GCMT). mb 5.6 (GS). MS 5.4 (GS). Mo 5.1×10^{17} Nm (UCMT), 2.8×10^{17} Nm (GCMT). One person killed, 17 injured and 1,200 houses destroyed in Sichuan. Felt (IV) at Chengdu and (II) at Xi'an. Also felt at Baoji, Beidao, Chongqing, Deyang, Hanzhong, Mianyang, Nanchong, Xianyang and Yanliang. | | | |
| JUL 26 | 18 51 50.9 | 24.788 N | 90.536 E | 18 | 4.8 | 0.7 | 185 | BANGLADESH. mb 4.8 (GS). MS 4.1 (GS). At least 25 people injured at Dhaka. Felt (IV) at Dhaka. Felt at Maimansingh. Also felt at Agartala, India. | | | |
| JUL 29 | 18 42 15.7& | 33.953 N | 117.761 W | 15 | 5.4 | | 392 | GREATER LOS ANGELES AREA, CALIFORNIA. <PAS>. MW 5.4 (UCMT), 5.4 (GCMT), 5.3 (GS), 5.4 (PAS). mb 5.5 (GS). MS 5.5 (GS). ME 5.4 (GS). Mo 1.7×10^{17} Nm (GCMT), 1.6×10^{17} Nm (UCMT), 1.3×10^{17} Nm (GS), 1.5×10^{17} Nm (PAS). Es 2.7×10^{12} Nm (GS). Three | | | |

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people injured at Brea and five people injured in the Wilshire District of Los Angeles. Minor damage to windows and brick walls at Los Angeles and Topanga. Felt (VI) at Anaheim, Artesia, Brea, Chino, Chino Hills, Covina, Diamond Bar, Fullerton, La Puente, Los Alamitos, Montclair, Pomona, Placentia, San Dimas, Walnut, West Covina, Whittier and Yorba Linda; (V) at Alhambra, Azusa, Baldwin Park, Bell, Bellflower, Buena Park, Canoga Park, Cerritos, Claremont, Cypress, Downey, El Monte, Garden Grove, Glendora, Hacienda Heights, Hawaiian Gardens, Lakewood, La Mirada, La Palma, La Verne, Lynwood, May Wood, Mira Loma, Montrose, Mount Baldy, North Hollywood, Northridge, Norwalk, Ontario, Panorama City, Paramount, Pico Rivera, Rancho Cucamonga, Reseda, Rosemead, Rowland Heights, San Gabriel, Santa Fe Springs, Seal Beach, South El Monte, Southgate, South Pasadena, Stanton, Upland, Winnetka and Woodland Hills. Felt (IV) in much of the surrounding Los Angeles basin and in much of southern California. Felt (III) at Las Vegas and (II) at North Las Vegas and Pahrump, Nevada. Felt at Henderson, Nevada and at Bullhead City, Flagstaff, Kingman, Mesa, Phoenix and Yuma, Arizona. Also felt at Tijuana, Baja California.

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| AUG 01 | 08 32 43.0 | 32.036 N | 104.722 E | 7 G | 5.7 | 0.7 | 516 | SICHUAN-GANSU BORDER REGION, CHINA. MW 5.7 (GS), 5.7 (GCMT). mb 5.9 (GS). MS 5.6 (GS). Mo 4.9×10^{17} Nm (GS), 4.1×10^{17} Nm (GCMT). At least 231 people injured, 540 houses destroyed and 2,450 houses damaged in Beichuan and Pingwu. Several landslides and rockfalls blocked roads in Pingwu. Cellular phone service interrupted in Beichuan. Felt (V) at Mianyang; (III) at Chengdu and Chongqing; (II) at Xi'an. Also felt at Ankang, Baoji, Daxian, Deyang, Fuling, Guangyuan, Hanzhong, Jiangyou, Lanzhou, Leshan, Luzhou, Nanchong, Nanlong, Tianshui, Ya'an, Yanliang and Yibin. |
| AUG 05 | 09 49 17.2 | 32.756 N | 105.494 E | 6 G | 6.0 | 1.0 | 449 | SICHUAN-GANSU BORDER REGION, CHINA. MW 6.0 (GCMT), 5.9 (UCMT). mb 5.9 (GS). MS 6.0 (GS). ME 6.0 (GS). Mo 1.1×10^{18} Nm (GCMT), 1.0×10^{18} Nm (UCMT). Es 2.3×10^{13} Nm (GS). Four people killed, 29 injured, and several buildings and roads damaged in the Qingchuan area. Felt (III) at Chengdu and Xi'an. Also felt at Beibei, Chongqing, Daxian, Guangyuan, Luoyang, Mianyang, Nanchong and Xianyang. |
| AUG 09 | 06 01 48.5* | 60.648 S | 153.771 E | 10 G | 6.5 | 1.6 | 99 | WEST OF MACQUARIE ISLAND. MW 6.5 (UCMT), 6.4 (GCMT). mb 5.6 (GS). MS 5.9 (GS). Mo 6.1×10^{18} Nm (UCMT), 5.1×10^{18} Nm (GCMT). |
| AUG 21 | 12 24 29.5 | 25.044 N | 97.684 E | 1 G | 6.0 | 0.9 | 234 | MYANMAR-CHINA BORDER REGION. MW 6.0 (GS), 6.0 (UCMT), 6.0 (GCMT). mb 5.6 (GS). MS 5.9 (GS). Mo 1.3×10^{18} Nm (UCMT), 1.2×10^{18} Nm (GCMT), 1.1×10^{18} Nm (GS). Five people killed, 127 injured and severe damage at Yingjiang, China. Felt (II) at Bangkok, Thailand. |
| AUG 25 | 13 21 58.8 | 30.901 N | 83.520 E | 12 G | 6.7 | 1.1 | 325 | WESTERN XIZANG. MW 6.7 (UCMT), 6.7 (GCMT), 6.6 (GS). mb 6.2 (GS). MS 6.5 (GS). ME 6.2 (GS). Mo 8.6×10^{18} Nm (GS), 1.4×10^{19} Nm (GCMT), 1.2×10^{19} Nm (UCMT), 2.5×10^{19} Nm (PPT). Es 4.5×10^{13} Nm (GS). About 700 rooms damaged (VIII) in Zhongba County. Ten km of surface faulting with sandblows along 4.2 km of the fracture zone observed in the epicentral area. Felt strongly at Bahraich and Lucknow and (III) at Delhi, India. Felt in parts of Haryana, Himachal Pradesh, Uttar Pradesh and Uttarakhand. Also felt at Kathmandu, Nepalganj and in the Tarai region, Nepal. |
| AUG 30 | 08 30 54.0 | 26.272 N | 101.937 E | 17 G | 5.9 | 0.9 | 363 | SICHUAN-YUNNAN BORDER REGION, CHINA. MW 5.9 (GCMT), 5.8 (GS). mb 5.7 (GS). MS 5.8 (GS). Mo 9.4×10^{17} Nm (GCMT), 6.7×10^{17} Nm (GS). At least 32 people killed and 321 injured at Huili; 6 people killed and 132 injured at Chuxiong; 5 people killed and 132 injured at Panzhihua; 4 people injured at Kunming. At least 392,000 houses damaged or destroyed in the Sichuan-Yunnan area. At least 66 schools, 22 bridges, 131 roads and 19 reservoirs damaged at Panzhihua. Chengdu-Kunming railroad service interrupted. Strongly felt at Panzhihua and Xichang. Felt (III) at Kunming. Also felt at Chengdu, Dali and Yibin. |
| AUG 31 | 08 31 10.7 | 26.232 N | 101.970 E | 10 G | 5.5 | 0.8 | 306 | SICHUAN-YUNNAN BORDER REGION, CHINA. MW 5.5 (GCMT), 5.3 (GS). mb 5.5 (GS). MS 5.2 (GS). Mo 2.5×10^{17} Nm (GCMT), 1.3×10^{17} Nm (GS). Two people killed in the Panzhihua area. Felt (III) at Kunming. Also felt at Xichang. |
| SEP 08 | 18 52 06.9 | 13.501 S | 166.967 E | 110 G | 6.9 | 0.9 | 531 | VANUATU. MW 6.9 (GS), 6.9 (UCMT), 6.9 (GCMT). mb 6.4 (GS). ME 7.0 (GS). Mo 3.1×10^{19} Nm (GS), 3.0×10^{19} Nm (GCMT), 2.9×10^{19} Nm (UCMT), 3.5×10^{19} Nm (PPT). Es 8.2×10^{14} Nm (GS). Felt at Honiara, Solomon Islands. |

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| SEP 09 | 03 07 27.5 | 3.935 S | 103.058 E | 25 | 5.4 | 1.2 | 235 | SOUTHERN SUMATRA, INDONESIA. mb 5.4 (GS). Two people killed and 113 homes severely damaged (VI) at Lahat. Several buildings also damaged at Jarai. Felt (IV) at Kapahiang and Pagaram and (III) at Bengkulu. |
| SEP 10 | 11 00 34.0 | 26.743 N | 55.828 E | 12 G | 6.1 | 1.0 | 500 | SOUTHERN IRAN. MW 6.1 (GCMT), 6.0 (UCMT), 5.8 (GS). mb 6.1 (GS). MS 6.0 (GS). ME 6.5 (GS). mbLg 6.0 (TEH). Mo 7.1*10**17 Nm (GS). 1.5*10**18 Nm (GCMT), 1.1*10**18 Nm (UCMT). Es 1.2*10**14 Nm (GS). Seven people killed and at least 30 injured in the Bandar `Abbas area. Fifteen people injured on Jazireh-ye Qeshm. Many villages damaged in Hormozgan. Felt (IV) at Ajman and Ra's al Khaymah; (III) at Abu Dhabi, Dubai and Sharjah, United Arab Emirates. Also felt at Al `Ayn and Al Fujayrah. Felt (II) at Doha, Qatar. |
| SEP 10 | 13 08 14.9 | 8.092 N | 38.718 W | 10 G | 6.6 | 0.9 | 623 | CENTRAL MID-ATLANTIC RIDGE. MW 6.6 (UCMT), 6.6 (GCMT), 6.5 (GS). mb 6.3 (GS). MS 6.5 (GS). Mo 8.8*10**18 Nm (UCMT), 7.2*10**18 Nm (GS), 1.0*10**19 Nm (GCMT). |
| SEP 11 | 00 00 02.7 | 1.885 N | 127.363 E | 96 G | 6.6 | 1.0 | 463 | HALMAHERA, INDONESIA. MW 6.6 (UCMT), 6.6 (GCMT), 6.5 (GS). mb 6.2 (GS). ME 6.5 (GS). Mo 9.0*10**18 Nm (GCMT), 8.7*10**18 Nm (UCMT), 8.1*10**18 Nm (GS). Es 1.1*10**14 Nm (GS). Felt (V) at Galela and Loloda. Felt (IV) at Bitung and on Ternate; (III) at Gorontalo and Manado, Sulawesi. Felt (III PIVS) at Davao and Tagum; (II PIVS) at General Santos and Zamboanga, Philippines. |
| SEP 11 | 00 20 50.9 | 41.892 N | 143.754 E | 25 G | 6.8 | 1.1 | 500 | HOKKAIDO, JAPAN REGION. MW 6.8 (GS), 6.8 (UCMT), 6.8 (GCMT). mb 6.1 (GS). MS 7.0 (GS). ME 6.7 (GS). Mo 1.9*10**19 Nm (GS), 1.8*10**19 Nm (UCMT), 1.8*10**19 Nm (GCMT), 1.7*10**19 Nm (PPT). Es 2.3*10**14 Nm (GS). Felt (IV) at Sapporo. Felt at Hakodate and Otofuke. Also felt (IV) at Misawa, Honshu. Recorded (5L JMA) in southern Hokkaido. Recorded (3 JMA) in Aomori and Iwate; (2 JMA) in Akita, Miyagi and Yamagata; (1 JMA) in Fukushima, Gumma, Ibaraki and Tochigi, Honshu. A small tsunami was recorded at Hanasaki, Hokkaido. |
| SEP 16 | 21 47 14.5 | 17.438 N | 73.915 E | 10 G | 5.0 | 1.2 | 116 | MAHARASHTRA, INDIA. mb 5.0 (GS). One person killed in the Daund area. At least 20 people injured, over 1,500 buildings damaged and several roads damaged by rockfalls in Satara. Buildings also damaged at Bombay. Felt (V) at Dabhol and Pune; (IV) at Bombay, Candolim, Karad, Madgaon, Mahabaleshwar, Panchgani, Pilerne, Ratnagiri and Vasco da Gama. Felt (II) in Panaji. Felt in most of western Maharashtra. Also felt in Goa and northern Karnataka. |
| SEP 29 | 15 19 31.5 | 29.756 S | 177.683 W | 36 G | 7.0 | 1.2 | 524 | KERMADEC ISLANDS, NEW ZEALAND. MW 7.0 (UCMT), 7.0 (GCMT), 6.9 (GS). mb 6.5 (GS). MS 6.7 (GS). ME 6.7 (GS). Mo 4.6*10**19 Nm (UCMT), 4.4*10**19 Nm (GCMT), 2.7*10**19 Nm (GS), 4.3*10**19 Nm (PPT). Es 2.6*10**14 Nm (GS). Felt in parts of the North Island. |
| OCT 05 | 15 52 49.4 | 39.533 N | 73.824 E | 27 D | 6.6 | 0.8 | 529 | KYRGYZSTAN. MW 6.6 (UCMT), 6.6 (GCMT), 6.4 (GS). mb 6.4 (GS). MS 6.9 (GS). ME 6.4 (GS). Mo 4.7*10**18 Nm (GS), 1.1*10**19 Nm (GCMT), 1.0*10**19 Nm (UCMT). Es 9.7*10**13 Nm (GS). At least 74 people killed, 140 injured and dozens of buildings destroyed at Nura. Felt (II) at Bishkek. Also felt at Osh. Some buildings damaged in Wuqia Xian, China. Felt at Kashi. Felt (IV) at Dushanbe, Tajikistan. Also felt at Gharm and Khorugh. Felt (IV) at Taraz and (III) at Almaty, Kazakhstan. Also felt at Shymkent. Felt at Islamabad, Pakistan and Tashkent, Uzbekistan. |
| OCT 06 | 08 30 45.5 | 29.807 N | 90.350 E | 12 G | 6.3 | 1.0 | 434 | EASTERN XIZANG. MW 6.3 (UCMT), 6.3 (GCMT), 6.1 (GS). mb 6.0 (GS). MS 6.2 (GS). ME 6.0 (GS). Mo 4.2*10**18 Nm (GCMT), 3.4*10**18 Nm (UCMT), 1.9*10**18 Nm (GS). Es 2.3*10**13 Nm (GS). Ten people killed, at least 25 injured and many structures damaged in Damxung, Doilungdeqen and Nyemo. Felt (IV) at Lhasa. Also felt at Thimphu, Bhutan. |
| OCT 11 | 09 06 10.7 | 43.372 N | 46.254 E | 16 G | 5.8 | 1.0 | 472 | CAUCASUS REGION, RUSSIA. MW 5.8 (GCMT), 5.7 (UCMT), 5.6 (GS). mb 5.6 (GS). MS 5.5 (GS). ME 5.6 (GS). Mo 6.6*10**17 Nm (GCMT), 4.9*10**17 Nm (UCMT), 3.7*10**17 Nm (GS). Es 5.4*10**12 Nm (GS). Thirteen people killed, more than 100 injured and 1,027 buildings damaged in Chechnya. Felt in Dagestan, Ingushetiya, Severnaya Osetiya-Alaniya and Stavropol'skiy Kray. Also felt at Krasnodar. Felt (IV) at Tbilisi, Georgia. |
| OCT 16 | 19 41 25.7 | 14.423 N | 92.364 W | 24 G | 6.7 | 1.2 | 481 | OFFSHORE CHIAPAS, MEXICO. MW 6.7 (UCMT), 6.6 (GCMT), 6.4 (GS). mb 6.1 (GS). MS 6.6 (GS). ME 6.0 (GS). MD 6.6 (UNM). Mo 5.7*10**18 Nm (GS), 1.2*10**19 Nm (UCMT), 1.1*10**19 Nm (GCMT), 1.7*10**19 Nm (PPT). Es 1.9*10**13 Nm (GS). Felt (IV) at Antigua Guatemala, |

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| | | | | | | | | | | Guatemala, Mixco and Quetzaltenango: (III) at Panajachel, Guatemala. Felt at Ayutla, Chichicastenango, Ciudad Vieja, Huehuetenango, Mazatenango, Retalhuleu, Salcaja, San Marcos la Laguna, San Pedro la Laguna, Santa Catarina Pinula and Villa Nueva. Felt (III) at San Salvador, El Salvador. Felt at Antigua Cuscatlan and Ilopango. Felt (II) at Mexico and San Cristobal de las Casas, Mexico. Felt at Tapachula and Tuxtla Gutierrez. |
| OCT 19 | 05 10 33.9 | 21.863 S | 173.819 W | 29 G | 6.9 | 0.9 | 518 | TONGA. MW 6.9 (UCMT), 6.9 (GCMT), 6.8 (GS). mb 6.8 (GS). MS 7.0 (GS). ME 6.9 (GS). Mo 3.1×10^{19} Nm (UCMT), 2.8×10^{19} Nm (GCMT), 2.2×10^{19} Nm (GS), 4.3×10^{19} Nm (PPT). Es 5.9×10^{14} Nm (GS). Felt (IV) at Nuku'alofa. Also felt at Ohonua, Tofoa-Koloua and Vaini. | | |
| OCT 25 | 20 17 20.2& | 26.533 N | 54.985 E | 29 | 5.2 | | 210 | SOUTHERN IRAN. <TEH>. mb 5.2 (GS). MS 4.8 (GS). ML 5.1 (THR). mbLg 5.0 (TEH). Nine people injured in the Bandar-e Kong area. Felt at Dubai, United Arab Emirates. | | |
| OCT 28 | 23 09 57.6 | 30.639 N | 67.351 E | 15 G | 6.4 | 0.8 | 365 | PAKISTAN. MW 6.4 (UCMT), 6.4 (GCMT), 6.3 (GS). mb 6.3 (GS). MS 6.6 (GS). Mo 4.8×10^{18} Nm (GCMT), 4.3×10^{18} Nm (UCMT), 3.4×10^{18} Nm (GS). One hundred sixty-six people killed, 370 injured and several villages destroyed in Balochistan. Several villages destroyed by landslides in the Ziarat area. A total of 3,487 homes destroyed and an additional 4,125 homes damaged in the Harnai area, Pishin and Ziarat. Felt (VI) at Quetta. Felt strongly in Bolan, Kalat and Qila Saifullah; and at Loralai, Mach, Mastung, Muslimbagh, and Surab. Felt (III) at Kandahar, Afghanistan. | | |
| OCT 29 | 11 32 43.1 | 30.598 N | 67.455 E | 14 G | 6.4 | 1.4 | 277 | PAKISTAN. MW 6.4 (UCMT), 6.4 (GCMT), 6.2 (GS). mb 6.2 (GS). MS 6.6 (GS). Mo 5.1×10^{18} Nm (GCMT), 4.5×10^{18} Nm (UCMT), 2.6×10^{18} Nm (GS). Several buildings collapsed in the Ziarat district. Cracked plaster and building damage at Quetta. One injury from a wall collapse at Shehdadkot. Felt (V) at Quetta. Also felt at Chaman, Dadhar, Dadu, Jacobabad, Jafarabad, Kawas, Khairu, Larkana, Loralai, Nasirabad, Pishin, Qambar, Qila Abdullah, Shoran, Sibi and Zhob. Felt (IV) at Kandahar, Afghanistan. Also felt at Gurgaon and Jaipur, India. | | |
| NOV 10 | 01 22 02.5 | 37.565 N | 95.833 E | 19 G | 6.3 | 0.9 | 432 | NORTHERN QINGHAI, CHINA. MW 6.3 (UCMT), 6.3 (GCMT), 6.1 (GS). mb 6.4 (GS). MS 6.4 (GS). ME 6.4 (GS). Mo 4.0×10^{18} Nm (UCMT), 3.6×10^{18} Nm (GCMT), 1.6×10^{18} Nm (GS). Es 8.8×10^{13} Nm (GS). Three people injured, several buildings damaged and utilities disrupted at the Dameigou Coal Mine. Damage at the mine was estimated at 4 million US dollars. Several homes collapsed at Golmud. About 20 homes damaged and utilities disrupted at Da Qaidam. | | |
| NOV 16 | 17 02 32.7 | 1.271 N | 122.091 E | 30 G | 7.3 | 1.1 | 365 | MINAHASA, SULAWESI, INDONESIA. MW 7.3 (UCMT), 7.3 (GCMT). mb 6.5 (GS). MS 7.0 (GS). ME 7.2 (GS). Mo 1.2×10^{20} Nm (UCMT), 1.2×10^{20} Nm (GCMT), 4.3×10^{19} Nm (PPT). Es 1.2×10^{15} Nm (GS). At least six people killed, 77 injured, 10,000 people displaced, 1,000 buildings damaged and communications disrupted in the Buol area and in Gorontalo. Felt (VII) at Baolan; (VI) at Gorontalo and Tolitoli; (IV) at Manado and Poso; (III) at Luwuk. Also felt at Kolaka, Kuta, Makasar, Palu and Ujung Bulu. Felt (IV) at Bandar Seri Begawan, Brunei and (II) at Darwin, Australia. Felt at Kunak and Sandakan, Malaysia and at General Santos and Koronadal, Philippines. | | |
| NOV 22 | 22 27 55.1& | 49.914 N | 18.455 E | 2 G | 4.1 | | 56 | CZECH REPUBLIC. <CSEM>. ML 4.1 (GRF), 3.7 (CSEM). Two miners killed and 3 injured due to a mine collapse near Karvina. Felt at Orlova and Ostrava. | | |
| NOV 24 | 09 02 58.7 | 54.203 N | 154.322 E | 492 | 7.3 | 0.8 | 531 | SEA OF OKHOTSK. MW 7.3 (GS), 7.3 (UCMT), 7.3 (GCMT). mb 6.5 (GS). ME 7.0 (GS). Mo 1.1×10^{20} Nm (GS), 1.1×10^{20} Nm (GCMT), 1.0×10^{20} Nm (UCMT), 8.0×10^{19} Nm (PPT). Es 7.7×10^{14} Nm (GS). Felt at Petropavlovsk-Kamchatskiy. Recorded (1 JMA) in eastern and southwestern Hokkaido. Also recorded (1 JMA) in Aomori, Iwate and Miyagi, Honshu. | | |
| DEC 07 | 13 36 21.3& | 26.990 N | 55.800 E | 15 | 5.4 | | 219 | SOUTHERN IRAN. <THR>. MW 5.4 (GS), 5.4 (GCMT). mb 5.7 (GS). MS 5.2 (GS). ML 5.2 (THR). Mo 1.6×10^{17} Nm (GCMT), 1.5×10^{17} Nm (GS). Five people injured and buildings damaged on Jazireh-ye Qeshm. Felt at Dubai, United Arab Emirates. | | |
| DEC 09 | 06 23 59.7 | 31.232 S | 176.924 W | 18 G | 6.8 | 1.1 | 414 | KERMADEC ISLANDS REGION. MW 6.8 (UCMT), 6.7 (GCMT), 6.6 (GS). mb 6.2 (GS). MS 6.7 (GS). ME 6.6 (GS). Mo 9.1×10^{18} Nm (GS), 1.9×10^{19} Nm (UCMT), 1.5×10^{19} Nm (GCMT), 2.8×10^{19} Nm (PPT). | | |

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| | | | | | | | | | | | Es 1.5*10**14 Nm (GS). |
| DEC 09 | 18 53 11.1 | 32.518 N | 105.395 E | 25 | 5.5 | 0.8 | 207 | SICHUAN-GANSU BORDER REGION, CHINA. | mb 5.5 (GS). MS 4.5 (GS). At least two people killed at Guangyuan and three injured in Lizhou. | | |
| DEC 25 | 20 20 51.5 | 23.970 N | 97.569 E | 35 G | 4.7 | 1.1 | 67 | MYANMAR-CHINA BORDER REGION. | mb 4.7 (GS). Nineteen people injured, 30 houses collapsed and more than 5,400 buildings damaged in Ruili, China. | | |

Compiled by Pamela J. Benfield and NEIC Operations Staff.

