# Datos terremotos: serie II

## Parte 2: Leyes de escala en sismología

| Nro de evento | Lugar | Fecha | Área de fractura ($km^2$) | $M_o$ ($10^{26}$ dina cm) |
|---|---|---|---|---|
| 1 | San Francisco (CA, USA) | 18/04/1906 | 5184 | 790 |
| 2 | Long Beach (CA, USA) | 11/03/1933 | 300 | 4,1 |
| 3 | Kern Country (CA, USA) | 21/07/1952 | 1216 | 94 |
| 4 | Arroyo Salada (CA, USA) | 19/03/1954 | 180 | 2,89 |
| 5 | San Francisco (CA, USA) | 22/03/1957 | 35 | 0,074 |
| 6 | Lituya Bay (Alaska, USA) | 10/07/1958 | 4200 | 510 |
| 7 | Hebgen Lake (MT, USA) | 18/08/1959 | 765 | 95 |
| 8 | Cache Valley (Utah, USA) | 30/08/1962 | 56 | 0,52 |
| 9 | Wakasa-Bay (Japan) | 26/03/1963 | 160 | 3 |
| 10 | Skopje (Yugoslavia) | 26/07/1963 | 187 | 1,1 |
| 11 | Watsonville (CA, USA) | 14/09/1963 | 25 | 0,063 |
| 12 | Parkfield (CA, USA) | 28/06/1966 | 350 | 2,7 |
| 13 | Caliente-Clover Mtn (Nevada, USA) | 16/08/1966 | 66 | 0,26 |
| 14 | Truckee (CA, USA) | 12/09/1966 | 91 | 0,97 |
| 15 | Borrego Mountain (CA, USA) | 09/04/1968 | 400 | 10 |
| 16 | Dasht-e-Bayaz (Iran) | 31/08/1968 | 2200 | 78 |
| 17 | Rampart (Alaska, USA) | 29/10/1968 | 240 | 12 |
| 18 | Coyote Mountain (CA, USA) | 28/04/1969 | 30 | 0,38 |
| 19 | Gifu (Japan) | 09/09/1969 | 180 | 3,6 |
| 20 | Ceres (South Africa) | 29/09/1969 | 180 | 4 |
| 21 | Akita (Japan) | 16/10/1970 | 154 | 1,75 |
| 22 | San Fernando (CA, USA) | 09/02/1971 | 238 | 10,4 |
| 23 | Bear Valley (CA, USA) | 24/02/1972 | 18 | 0,078 |
| 24 | Bear Valley (CA, USA) | 27/02/1972 | 9,5 | 0,008 |
| 25 | San Juan Bautista (CA, USA) | 03/10/1972 | 11 | 0,016 |
| 26 | Point Mugu (CA, USA) | 21/02/1973 | 25 | 0,42 |
| 27 | Tibet (China) | 14/07/1973 | 600 | 29,6 |
| 28 | Izu-Oki (Japan) | 08/05/1974 | 198 | 7,2 |
| 29 | Tadzhikestan (USSR) | 11/08/1974 | 600 | 43,8 |
| 30 | Haicheng (China) | 04/02/1975 | 900 | 34,5 |
| 31 | Pocatello Valley (Idaho, USA) | 28/03/1975 | 150 | 1,4 |
| 32 | Oita Prefecture (Japan) | 20/04/1975 | 100 | 3,4 |
| 33 | Yellowstone (WY, USA) | 30/06/1975 | 50 | 0,75 |
| 34 | Oroville (CA, USA) | 01/08/1975 | 80 | 1,18 |
| 35 | Horse Canyon (CA, USA) | 02/08/1975 | 4 | 0,035 |
| 36 | Motagua (Guatemala) | 04/02/1976 | 3341 | 310 |
| 37 | Uzbekistan (USSR) | 08/04/1976 | 600 | 19,5 |
| 38 | Friuli (Italy) | 06/05/1976 | 190 | 6 |

| | | | | |
|---|---|---|---|---|
| 39 | Uzbekistan (USSR) | 17/05/1976 | 1152 | 20,7 |
| 40 | Tangshan (China) | 27/07/1976 | 1680 | 176 |
| 41 | Songpan, Huya (China) | 16/08/1976 | 360 | 13 |
| 42 | Songpan, Huya (China) | 21/08/1976 | 96 | 4 |
| 43 | Songpan, Huya (China) | 23/08/1976 | 242 | 8,4 |
| 44 | Mesa de Andrade (Mexico) | 07/12/1976 | 45 | 0,29 |
| 45 | Matata (New Zealand) | 31/05/1977 | 42 | 0,29 |
| 46 | Willits (CA, USA) | 22/11/1977 | 20 | 0,082 |
| 47 | Caucete (Argentina) | 23/11/1977 | 2400 | 189 |
| 48 | Bob-Tangol (Iran) | 19/12/1977 | 168 | 0,76 |
| 49 | Izu-Oshima (Japan) | 14/01/1978 | 500 | 13,2 |
| 50 | Thessaloniki (Greece) | 20/06/1978 | 392 | 5,02 |
| 51 | Santa Barbara (CA, USA) | 13/08/1978 | 50 | 0,75 |
| 52 | Swabian Jura (Germany) | 09/03/1978 | 27 | 0,074 |
| 53 | Tabas-e-Golshan (Iran) | 16/09/1978 | 1628 | 137 |
| 54 | Wheeler Crest (CA, USA) | 04/10/1978 | 38 | 0,18 |
| 55 | Homestead Valley (CA, USA) | 15/03/1979 | 24 | 0,241 |
| 56 | Montenegro (Yugoslavia) | 15/04/1979 | 1450 | 32,9 |
| 57 | Cadoux (Australia) | 02/06/1979 | 96 | 1,67 |
| 58 | Coyote Lake (CA, USA) | 06/08/1979 | 140 | 0,51 |
| 59 | Charlevoix, Quebee (Canada) | 19/08/1979 | 4 | 0,015 |
| 60 | Umbria, Norea (Italy) | 19/09/1979 | 110 | 0,63 |
| 61 | El Centro (CA, USA) | 15/10/1979 | 612 | 7,12 |
| 62 | Greenville (CA, USA) | 24/01/1980 | 138 | 0,6 |
| 63 | Anza (CA, USA) | 25/02/1980 | 6 | 0,041 |
| 64 | Arudy (France) | 29/02/1980 | 19 | 0,064 |
| 65 | Mammoth Lakes (CA, USA) | 27/05/1980 | 99 | 1,09 |
| 66 | Mexicali Valley (Mexico) | 09/06/1980 | 224 | 4,5 |
| 67 | Izu-Hanto-Tobo (Japan) | 29/06/1980 | 140 | 4,3 |
| 68 | Sharpsburg (KY, USA) | 27/07/1980 | 20 | 0,043 |
| 69 | El Asnam (Algeria) | 10/10/1980 | 825 | 50,8 |
| 70 | South Apennines (Italy) | 23/11/1980 | 900 | 26 |
| 71 | Daofu (China) | 23/01/1980 | 690 | 10,1 |
| 72 | Elk Lake (WA, USA) | 14/02/1981 | 42 | 0,1 |
| 73 | Corinth (Greece) | 24/02/1981 | 480 | 10 |

TABLA 1: Datos de terremotos registrados entre los años 1906 y 1981 en distintas partes del mundo [1].

# Referencias

[1] D. L. Wells, y K. J. Coppersmith, *New empirical relationships among magnitude, rupture length, rupture width, rupture area, and surface displacement*, Bulletin of the seismological Society of America **84** (4), 974-1002 (1994).