

Major earthquakes and tsunamis, 1900-2004

15 deadliest earthquakes, 1900-2004

Date	Event	Magnitude	Region	Fatilities	Economic losses* (US\$m)	Insured losses*
27/28.7.1976	Earthquake	7.8	China, Tangshan	242,800	5,600	
16.12.1920	Earthquake, landslide	8.5	China, Gansu	235,000	25	
1.9.1923	Earthquake	7.8	Japan, Tokyo	142,800	2,800	590
28.12.1908	Earthquake	7.2	Italy, Messina	85,900	116	
25.12.1932	Earthquake	7.6	China, Kansu	77,000		
31.5.1970	Earthquake, landslide	7.9	Peru, Chimbote	67,000	550	14
30.5.1935	Earthquake	7.5	Pakistan, Quetta	50,000	25	
20/21.6.1990	Earthquake	7.4	Iran, Gilan province	40,000	7,100	100
23.5.1927	Earthquake	8.0	China, Gansu	40,000	25	
26.12.1939	Earthquake	7.9	Turkey, Erzincan	32,900	20	
13.1.1915	Earthquake	7.5	Italy, Avezano	32,600	25	
25.1.1939	Earthquake	8.3	Chile, Concepción	28,000	100	
26.12.2003	Earthquake	6.6	Iran, Bam	26,200	500	18
7.12.1988	Earthquake	6.7	Armenia, Spitak	25,000	14,000	
4.2.1976	Earthquake	7.5	Guatemala	23,000	1,100	55

10 deadliest tsunamis, 1900-2004

Date	Event	Magnitude	Region	Fatilities
26.12.2004	Tsunami	9.0	Indonesia. Sri Lanka. India. Thailand. Maldives	>140,000
17.8.1976	Tsunami	8.0	Philippines	4,000
2.3.1933	Tsunami	8.3	Japan, Sanriku	3,060
21.5.1960	Tsunami	9.5	Chile. Hawaii. Japan	3,000
12.12.1992	Tsunami	7.5	Indonesia, Flores	2,500
17.7.1998	Tsunami	7.1	Papua New Guinea	2,400
20.12.1946	Tsunami	8.1	Japan, Nankaido	2,000
5.11.1952	Tsunami		Russia, Paramushir Island	1,300
7.12.1944	Tsunami	8.0	Japan, Honshu	1,000
31.1.1906	Tsunami	8.2	Ecuador. Colombia	500

Other historic tsunami disasters

1883	Volanic eruption: Krakatau, tsunami		Indonesia	36,400
1.11.1755	Earthquake, tsunami		Portugal. Morocco	>30,000
15.6.1896	Tsunami		Japan, Sanriku	27,000

10 costliest earthquakes/tsunamis, 1900-2004

Date	Event	Magnitude	Region	Fatilities	Economic losses* (US\$m)	Insured losses*
17.1.1995	Earthquake	6.8	Japan, Kobe	6,430	100,000	3,000
17.1.1994	Earthquake	6.8	USA, Northridge	61	44,000	15,300
23.10.2004	Earthquake	6.6	Japan, Niigata	39	28,000	450
7.12.1988	Earthquake	6.7	Armenia, Spitak	25,000	14,000	
21.9.1999	Earthquake	7.6	Taiwan, Nantou	2,370	14,000	750
17.8.1999	Earthquake	7.4	Turkey, Izmit	15,000	12,000	600
23.11.1980	Earthquake	6.8	Italy, Irpinia	2,900	11,800	40
26.12.2004	Earthquake, tsunami	9.0	Indonesia. Sri Lanka. India. Thailand. Maldives	>140,000	>10,000	

17.10.1989	Earthquake	7.1	USA, Loma Prieta	68	10,000	960
20/21.6.1990	Earthquake	7.4	Iran, Gilan province	40,000	7,100	100

Largest earthquakes, 1900-2004

Date		Moment magnitude Mw	Region
22.5.1960		9.5	Chile
28.3.1964		9.2	USA, Alaska
9.3.1957		9.1	USA, Aleutian
4.11.1952		9.0	Russia, Kamchatka
26.12.2004		9.0	Indonesia
31.1.1906		8.8	Ecuador
4.2.1965		8.7	USA, Aleutian
15.8.1950		8.6	India, Assam
3.2.1923		8.5	Russia, Kamchatka
1.2.1938		8.5	Indonesia, Banda Sea
13.10.1963		8.5	Russia, Kuril Islands

* Losses in original values

As at 28.12.2004, updated 3.1.2005

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