

List of ground motions used in the response-history analyses for the calculation of residual displacements by E. Liossadou & M.N. Fardis in “Residual displacements of RC structures of SDOF systems”.

List of records without velocity Pulse

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Northridge	USA	1994	LA - Wadsworth VA Hospital North	6.7	RV	23.6	P	0.25
Northridge	USA	1994	Newhall - Fire Sta	6.7	RV	5.92	P	0.59
Northridge	USA	1994	Pacoima Dam (downstr)	6.7	RV	7.01	P	0.43
Northridge	USA	1994	Pacoima Dam (upper left)	6.7	RV	7.01	P	1.59
Northridge	USA	1994	Sylmar - Converter Sta	6.7	RV	5.35	P	0.89
Northridge	USA	1994	Sylmar - Converter Sta East	6.7	RV	5.19	P	0.83
Northridge	USA	1994	Sylmar - Olive View Med FF	6.7	RV	5.3	P	0.84
Kobe	Japan	1995	KJMA	6.9	SS	0.96	P	0.82
Kobe	Japan	1995	Takarazuka	6.9	SS	0.27	P	0.69
Kobe	Japan	1995	Takatori	6.9	SS	1.47	P	0.61
Friuli	Italy	1976	Kobarid-Osn.Skola	5.3	thrust	33	E-W	0.09
Friuli	Italy	1976	Breginj-Fabrika IGLI	5.3	thrust	21	E-W	0.10
Kocaeli	Turkey	1999	Arcelik	7.5	SS	13.49	N	0.14
Friuli	Italy	1976	Buia	5.3	thrust	21	N-S	0.09
Friuli	Italy	1976	Kobarid-Osn.Skola	5.5	thrust	32	N-S	0.09
Chi-Chi	Taiwan	1999	CHY006	7.6	RV-OBL	9.77	P	0.35
Chi-Chi	Taiwan	1999	CHY024	7.6	RV-OBL	9.64	N	0.28
Chi-Chi	Taiwan	1999	CHY035	7.6	RV-OBL	12.65	P	0.25
Friuli	Italy	1976	San Rocco	5.5	thrust	15	E-W	0.09
Friuli	Italy	1976	San Rocco	5.5	thrust	15	N-S	0.09
Izmit	Turkey	1999	Duzce-Meteoroloji Mudurlugu	7.6	SS	100	E-W	0.30
Izmit	Turkey	1999	Duzce-Meteoroloji Mudurlugu	7.6	SS	100	N-S	0.35
Izmit	Turkey	1999	Eregli-Kaymakamik Binasi	7.6	SS	188	E-W	0.09
Izmit	Turkey	1999	Eregli-Kaymakamik Binasi	7.6	SS	188	N-S	0.10
Izmit	Turkey	1999	Gebze-Tubitak Marmara Arastirma Merkezi	7.6	SS	47	E-W	0.23
Izmit	Turkey	1999	Gebze-Tubitak Marmara Arastirma Merkezi	7.6	SS	47	N-S	0.13
Izmit	Turkey	1999	Goynuk-Devlet Hastanesi	7.6	SS	73	E-W	0.13
Izmit	Turkey	1999	Goynuk-Devlet Hastanesi	7.6	SS	73	N-S	0.12
Friuli	Italy	1976	Buia	5.5	thrust	9	E-W	0.23
Friuli	Italy	1976	Buia	5.5	thrust	9	N-S	0.10
Izmit	Turkey	1999	Izmit-Karayollari Sefligi Muracaati	7.6	SS	39	E-W	0.09
Izmit	Turkey	1999	Izmit-Karayollari Sefligi Muracaati	7.6	SS	39	N-S	0.13
Izmit	Turkey	1999	Izmit-Meteoroloji Istasyonu	7.6	SS	9	E-W	0.16
Izmit	Turkey	1999	Izmit-Meteoroloji Istasyonu	7.6	SS	9	N-S	0.22
Izmit	Turkey	1999	Sakarya-Bayindirlik ve Iskan Mudurlugu	7.6	SS	33	E-W	0.35
Izmit	Turkey	1999	Sakarya-Bayindirlik ve Iskan Mudurlugu	7.6	SS	33	N-S	
Friuli	Italy	1999	Forgaria-Cornio	5.5	thrust	15	E-W	0.13
Friuli	Italy	1999	Forgaria-Cornio	5.5	thrust	15	N-S	0.23
Manjil	Iran	1990	Abbar	7.4	OBL	39	E-W	0.59
Manjil	Iran	1990	Abbar	7.4	OBL	39	N-S	0.53
Firoozabad	Iran	2004	Chaboksar	6.3	thrust	121	E-W	0.09
Firoozabad	Iran	2004	Chaboksar	6.3	thrust	121	N-S	0.14
Firoozabad	Iran	2004	Deylaman	6.3	thrust	166	E-W	0.10
Firoozabad	Iran	2004	Deylaman	6.3	thrust	166	N-S	0.10
Firoozabad	Iran	2004	Baraqa	6.3	thrust	72	E-W	0.09
Firoozabad	Iran	2004	Baraqa	6.3	thrust	72	N-S	0.09
Izmit	Turkey	1999	Izmit-Meteoroloji Istasyonu	7.8	OBL	15	E-W	0.07
Izmit	Turkey	1999	Izmit-Meteoroloji Istasyonu	7.8	OBL	15	N-S	0.31

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Chi-Chi	Taiwan	1999	CHY101	7.6	RV-OBL	9.96	P	0.44
Izmit	Turkey	1999	Gebze-Arcelik	7.6	SS	55	E-W	0.20
Izmit	Turkey	1999	Gebze-Arcelik	7.6	SS	55	N-S	0.12
Izmit	Turkey	1999	Ambarli-Termik Santrali	7.6	SS	113	E-W	0.26
Izmit	Turkey	1999	Ambarli-Termik Santrali	7.6	SS	113	N-S	0.17
Izmit	Turkey	1999	Botas-Gas Terminal	7.6	SS	172	E-W	0.08
Izmit	Turkey	1999	Botas-Gas Terminal	7.6	SS	172	N-S	0.10
Izmit	Turkey	1999	Bursa-Tofa Fabrikasi	7.6	SS	92	E-W	0.09
Izmit	Turkey	1999	Bursa-Tofa Fabrikasi	7.6	SS	92	N-S	0.10
Izmit	Turkey	1999	Cekmece-Kucuk	7.6	SS	110	E-W	0.17
Izmit	Turkey	1999	Cekmece-Kucuk	7.6	SS	110	N-S	0.13
Izmit	Turkey	1999	Yesilkoy-Havaalani	7.6	SS	103	E-W	0.09
Izmit	Turkey	1999	Yesilkoy-Havaalani	7.6	SS	103	N-S	0.07
Sarein	Iran	1997	Ardebil	6.1	OBL	28	E-W	0.11
Sarein	Iran	1997	Ardebil	6.1	OBL	28	N-S	0.07
Sarein	Iran	1997	Ardebil 2	6.1	OBL	29	E-W	0.16
Sarein	Iran	1997	Ardebil 2	6.1	OBL	29	N-S	0.12
Sarein	Iran	1997	Namin	6.1	OBL	54	E-W	0.07
Sarein	Iran	1997	Namin	6.1	OBL	54	N-S	0.11
Izmit	Turkey	1999	Fatih-Tomb	7.6	SS	94	E-W	0.18
Izmit	Turkey	1999	Fatih-Tomb	7.6	SS	94	N-S	0.16
Sarein	Iran	1997	Kariq	6.1	OBL	24	E-W	0.51
Sarein	Iran	1997	Kariq	6.1	OBL	24	N-S	0.55
Izmit	Turkey	1999	Heybeliada-Senatoryum	7.6	SS	78	E-W	0.05
Izmit	Turkey	1999	Heybeliada-Senatoryum	7.6	SS	78	N-S	0.10
Ardakul	Iran	1997	Khaf	7.2	SS	81	E-W	0.10
Ardakul	Iran	1997	Khaf	7.2	SS	81	N-S	0.08
Ardakul	Iran	1997	Sangan	7.2	SS	68	E-W	0.12
Ardakul	Iran	1997	Sangan	7.2	SS	68	N-S	0.12
Izmit	Turkey	1999	Yarimca-Petkim	7.6	SS	20	E-W	0.29
Izmit	Turkey	1999	Yarimca-Petkim	7.6	SS	20	N-S	0.24
Karebas	Iran	1999	Khanzaynoo	6.2	SS	23	E-W	0.16
Karebas	Iran	1999	Khanzaynoo	6.2	SS	23	N-S	0.12
Karebas	Iran	1999	Dehbala	6.2	SS	28	E-W	0.32
Karebas	Iran	1999	Dehbala	6.2	SS	28	N-S	0.36
Liosia	Greece	1999	Athens 2 (Chalandri District)	6.0	N	20	E-W	0.11
Liosia	Greece	1999	Athens 2 (Chalandri District)	6.0	N	20	N-S	0.16
Liosia	Greece	1999	Athens 3 (Kallithea District)	6.0	N	16	E-W	0.26
Liosia	Greece	1999	Athens 3 (Kallithea District)	6.0	N	16	N-S	0.30
Liosia	Greece	1999	Athens 4 (Kipseli District)	6.0	N	17	E-W	0.12
Liosia	Greece	1999	Athens 4 (Kipseli District)	6.0	N	17	N-S	0.11
Friuli	Italy	1976	Buia	6.0	thrust	9	E-W	0.11
Friuli	Italy	1976	Buia	6.0	thrust	9	N-S	0.09
Friuli	Italy	1976	Forgaria-Cornio	6.0	thrust	14	E-W	0.26
Friuli	Italy	1976	Forgaria-Cornio	6.0	thrust	14	N-S	0.21
Chi-Chi	Taiwan	1999	TAP003	7.6	RV-OBL	102.39	P	0.11
Chi-Chi	Taiwan	1999	TAP005	7.6	RV-OBL	106.87	N	0.14
Pulumur	Turkey	1992	Erzincan-Eksisu	5.2	SS	26	E-W	0.11
Pulumur	Turkey	1992	Erzincan-Eksisu	5.2	SS	26	N-S	0.06
Chi-Chi	Taiwan	1999	TCU003	7.6	RV-OBL	86.57	N	0.06
Chi-Chi	Taiwan	1999	TCU006	7.6	RV-OBL	72.61	N	0.08
Chi-Chi	Taiwan	1999	TCU010	7.6	RV-OBL	82.27	N	0.09
Friuli	Italy	1976	Forgaria-Cornio	6.0	thrust	14	E-W	0.34
Friuli	Italy	1976	Forgaria-Cornio	6.0	thrust	14	N-S	0.33
Chi-Chi	Taiwan	1999	TCU015	7.6	RV-OBL	49.81	N	0.12
Chi-Chi	Taiwan	1999	TCU018	7.6	RV-OBL	66.25	N	0.05
Chi-Chi	Taiwan	1999	TCU026	7.6	RV-OBL	56.12	N	0.12
Chi-Chi	Taiwan	1999	TCU029	7.6	RV-OBL	28.05	P	0.20
Chi-Chi	Taiwan	1999	TCU034	7.6	RV-OBL	35.69	P	0.11
Friuli	Italy	1976	San Rocco	6.0	thrust	14	E-W	0.14
Friuli	Italy	1976	San Rocco	6.0	thrust	14	N-S	0.23
Chi-Chi	Taiwan	1999	TCU039	7.6	RV-OBL	19.9	N	0.21
Chi-Chi	Taiwan	1999	TCU042	7.6	RV-OBL	26.32	P	0.20
Chi-Chi	Taiwan	1999	TCU046	7.6	RV-OBL	16.74	P	0.12
Chi-Chi	Taiwan	1999	TCU049	7.6	RV-OBL	3.78	P	0.25
Chi-Chi	Taiwan	1999	TCU052	7.6	RV-OBL	0.66	P	0.42
Chi-Chi	Taiwan	1999	TCU053	7.6	RV-OBL	5.97	P	0.14
Chi-Chi	Taiwan	1999	TCU054	7.6	RV-OBL	5.3	P	0.19

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Chi-Chi	Taiwan	1999	TCU056	7.6	RV-OBL	10.5	P	0.14
Chi-Chi	Taiwan	1999	TCU059	7.6	RV-OBL	17.13	N	0.17
Chi-Chi	Taiwan	1999	TCU060	7.6	RV-OBL	8.53	P	0.11
Friuli	Italy	1976	Tarcento	6.0	thrust	12	E-W	0.13
Friuli	Italy	1976	Tarcento	6.0	thrust	12	N-S	0.11
Chi-Chi	Taiwan	1999	TCU063	7.6	RV-OBL	9.8	N	0.17
Chi-Chi	Taiwan	1999	TCU064	7.6	RV-OBL	16.62	N	0.11
Chi-Chi	Taiwan	1999	TCU065	7.6	RV-OBL	0.59	P	0.60
Coyote Lake	USA	1999	Gilroy Array #6	5.8	SS	3.11	P	0.32
Chi-Chi	Taiwan	1999	TCU075	7.6	RV-OBL	0.91	P	0.26
Chi-Chi	Taiwan	1999	TCU076	7.6	RV-OBL	2.76	P	0.42
Chi-Chi	Taiwan	1999	TCU082	7.6	RV-OBL	5.18	P	0.19
Chi-Chi	Taiwan	1999	TCU087	7.6	RV-OBL	7	P	0.12
Friuli	Italy	1976	Buia	6.0	thrust	11	E-W	0.08
Friuli	Italy	1976	Buia	6.0	thrust	11	N-S	0.09
Chi-Chi	Taiwan	1999	TCU094	7.6	RV-OBL	54.53	N	0.09
Chi-Chi	Taiwan	1999	TCU096	7.6	RV-OBL	54.46	N	0.06
Chi-Chi	Taiwan	1999	TCU103	7.6	RV-OBL	6.1	P	0.16
Caldiran	Turkey	1976	Maku	7.0	SS	52	N-S	0.10
Duzce	Turkey	1999	Bolu-Bayindirlik ve Iskan Mudurlugu	7.2	OBL	39	E-W	0.73
Duzce	Turkey	1999	Bolu-Bayindirlik ve Iskan Mudurlugu	7.2	OBL	39	N-S	0.78
Imperial Valley	USA	1979	Aeropuerto Mexicali	6.5	SS	0.34	P	0.26
Ardal	Iran	1977	Naghan 1	6.0	OBL	7	E-W	0.89
Ardal	Iran	1977	Naghan 1	6.0	OBL	7	N-S	
Imperial Valley	USA	1979	Agrarias	6.5	SS	0.65	P	0.37
Duzce	Turkey	1999	Bolu	7.2	SS	12.04	N	0.73
Duzce	Turkey	1999	Duzce	7.2	SS	6.58	N	0.54
Friuli	Italy	1977	San Rocco	5.4	thrust	7	E-W	0.10
Friuli	Italy	1977	San Rocco	5.4	thrust	7	N-S	0.09
Imperial Valley	USA	1979	Brawley Airport	6.5	SS	10.42	P	0.22
Duzce	Turkey	1999	Duzce-Meteoroloji Mudurlugu	7.2	OBL	8	E-W	0.37
Duzce	Turkey	1999	Duzce-Meteoroloji Mudurlugu	7.2	OBL	8	N-S	0.50
Duzce	Turkey	1999	Mudurnu-Kaymakamlik Binasi	7.2	OBL	34	E-W	0.12
Duzce	Turkey	1999	Mudurnu-Kaymakamlik Binasi	7.2	OBL	34	N-S	0.05
Basso Tirreno	Italy	1978	Patti-Cabina Prima	6.0	OBL	18	E-W	0.07
Basso Tirreno	Italy	1978	Patti-Cabina Prima	6.0	OBL	18	N-S	
Imperial Valley	USA	1979	EC County Center FF	6.5	SS	7.31	P	0.22
Liosia	Greece	1999	Athens-Sygrou-Fix	6.0	N	19	E-W	0.08
Liosia	Greece	1999	Athens-Sygrou-Fix	6.0	N	19	N-S	0.12
Liosia	Greece	1999	Athens-Papagos	6.0	N	20	E-W	0.09
Liosia	Greece	1999	Athens-Papagos	6.0	N	20	N-S	0.08
Liosia	Greece	1999	Athens-Syntagma (3rd lower level)	6.0	N	18	E-W	0.11
Liosia	Greece	1999	Athens-Syntagma (3rd lower level)	6.0	N	18	N-S	0.08
Liosia	Greece	1999	Athens-Sepolia (Metro Station)	6.0	N	14	E-W	0.24
Liosia	Greece	1999	Athens-Sepolia (Metro Station)	6.0	N	14	N-S	0.22
Liosia	Greece	1999	Athens-Sepolia (Garage)	6.0	N	14	E-W	0.32
Liosia	Greece	1999	Athens-Sepolia (Garage)	6.0	N	14	N-S	0.30
Basso Tirreno	Italy	1978	Naso	6.0	OBL	18	E-W	0.15
Basso Tirreno	Italy	1978	Naso	6.0	OBL	18	N-S	0.13
Imperial Valley	USA	1979	EC Meloland Overpass FF	6.5	SS	0.07	P	0.32
Adana	Turkey	1998	Ceyhan-Tarim Ilce Mudurlugu	6.3	SS	4	E-W	0.22
Adana	Turkey	1998	Ceyhan-Tarim Ilce Mudurlugu	6.3	SS	4	N-S	0.26

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Imperial Valley	USA	1979	El Centro Array #11	6.5	SS	12.45	P	0.36
Volvi	Greece	1978	Thessaloniki-City Hotel	6.2	N	29	E-W	0.14
Volvi	Greece	1978	Thessaloniki-City Hotel	6.2	N	29	N-S	0.14
Harbiye	Turkey	1997	Hatay-Bayindirlik ve Iskan Mudurlugu	5.7	OBL	19	E-W	0.13
Harbiye	Turkey	1997	Hatay-Bayindirlik ve Iskan Mudurlugu	5.7	OBL	19	N-S	0.15
Volvi	Greece	1978	Thessaloniki-City Hotel	6.2	N	16	E-W	0.11
Volvi	Greece	1978	Thessaloniki-City Hotel	6.2	N	16	N-S	0.10
Imperial Valley	USA	1979	El Centro Array #4	6.5	SS	7.05	P	0.49
Imperial Valley	USA	1979	El Centro Array #5	6.5	SS	3.95	P	0.52
Imperial Valley	USA	1979	El Centro Array #8	6.5	SS	3.86	P	0.60
Skydra-Edessa	Greece	1986	Edessa-Prefecture	5.3	?	2	E-W	0.09
Skydra-Edessa	Greece	1986	Edessa-Prefecture	5.3	?	2	N-S	0.04
Griva	Greece	1990	Edessa-Prefecture	6.1	N	36	E-W	0.10
Griva	Greece	1990	Edessa-Prefecture	6.1	N	36	N-S	0.09
Ierissos	Greece	1983	Ierissos-Police Station	5.1	SS	8	E-W	0.12
Ierissos	Greece	1983	Ierissos-Police Station	5.1	SS	8	N-S	0.18
Komilio	Greece	1994	Lefkada-Hospital	5.4	OBL	15	E-W	0.13
Komilio	Greece	1994	Lefkada-Hospital	5.4	OBL	15	N-S	0.13
Ierissos	Greece	1983	Ouranoupolis-Seismograph Station	5.1	SS	15	E-W	0.08
Ierissos	Greece	1983	Ouranoupolis-Seismograph Station	5.1	SS	15	N-S	0.13
Patras	Greece	1993	Patra-National Bank	5.6	SS	10	E-W	0.14
Patras	Greece	1993	Patra-National Bank	5.6	SS	10	N-S	0.19
Montenegro	Serbia & Montenegro	1979	Petrovac-Hotel Oliva	6.9	thrust	25	E-W	0.45
Montenegro	Serbia & Montenegro	1979	Petrovac-Hotel Oliva	6.9	thrust	25	N-S	0.30
Montenegro	Serbia & Montenegro	1979	Ulcinj-Hotel Olympic	6.9	thrust	24	E-W	0.29
Montenegro	Serbia & Montenegro	1979	Ulcinj-Hotel Olympic	6.9	thrust	24	N-S	0.24
Montenegro	Serbia & Montenegro	1979	Ulcinj-Hotel Albatros	6.9	thrust	21	E-W	0.18
Montenegro	Serbia & Montenegro	1979	Ulcinj-Hotel Albatros	6.9	thrust	21	N-S	0.22
Montenegro	Serbia & Montenegro	1979	Bar-Skupstina Opstine	6.9	thrust	16	E-W	0.37
Montenegro	Serbia & Montenegro	1979	Bar-Skupstina Opstine	6.9	thrust	16	N-S	0.36
Almiros	Greece	1980	Almiros Volos-Town Hall	5.0	N	3	E-W	0.12
Almiros	Greece	1980	Almiros Volos-Town Hall	5.0	N	3	N-S	0.10
Montenegro	Serbia & Montenegro	1979	Hercegnovi Novi-O.S.D. Pavicic School	6.9	thrust	65	E-W	0.22
Montenegro	Serbia & Montenegro	1979	Hercegnovi Novi-O.S.D. Pavicic School	6.9	thrust	65	N-S	0.25
Montenegro	Serbia & Montenegro	1979	Bar-Skupstina Opstine	5.8	OBL	41	E-W	0.05
Montenegro	Serbia & Montenegro	1979	Bar-Skupstina Opstine	5.8	OBL	41	N-S	0.08
Montenegro	Serbia & Montenegro	1979	Hercegnovi Novi-O.S.D. Pavicic School	5.8	OBL	22	E-W	0.09
Montenegro	Serbia & Montenegro	1979	Hercegnovi Novi-O.S.D. Pavicic School	5.8	OBL	22	N-S	0.08
Montenegro	Serbia & Montenegro	1979	Bar-Skupstina Opstine	6.2	thrust	33	E-W	0.20
Montenegro	Serbia & Montenegro	1979	Bar-Skupstina Opstine	6.2	thrust	33	N-S	0.27
Montenegro	Serbia & Montenegro	1979	Petrovac-Hotel Rivijera	6.2	thrust	17	E-W	0.17
Montenegro	Serbia & Montenegro	1979	Petrovac-Hotel Rivijera	6.2	thrust	17	N-S	0.27

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Montenegro	Serbia & Montenegro	1979	Budva-PTT	6.2	thrust	8	E-W	0.12
Montenegro	Serbia & Montenegro	1979	Budva-PTT	6.2	thrust	8	N-S	0.26
Montenegro	Serbia & Montenegro	1979	Tivat-Aerodrom	6.2	thrust	21	E-W	0.16
Montenegro	Serbia & Montenegro	1979	Tivat-Aerodrom	6.2	thrust	21	N-S	0.13
Montenegro	Serbia & Montenegro	1979	Kotor-Zovod za Biologiju Mora	6.2	thrust	22	E-W	0.12
Montenegro	Serbia & Montenegro	1979	Kotor-Zovod za Biologiju Mora	6.2	thrust	22	N-S	0.15
Valnerina	Italy	1979	Cascia	5.8	N	5	E-W	0.15
Valnerina	Italy	1979	Cascia	5.8	N	5	N-S	0.20
Chi-Chi	Taiwan	1999	CHY024	6.2	RV	19.65	P	0.09
Valnerina	Italy	1979	Nocera Umbra	5.8	N	44	E-W	0.08
Valnerina	Italy	1979	Nocera Umbra	5.8	N	44	N-S	0.07
Valnerina	Italy	1979	Arquata del Tronto	5.8	N	22	E-W	0.06
Valnerina	Italy	1979	Arquata del Tronto	5.8	N	22	N-S	0.09
Chi-Chi	Taiwan	1999	CHY080	6.2	RV	22.37	P	0.22
Mammoth Lakes	USA	1980	Long Valley Dam (Upr L Abut)	5.9	SS	16.23	P	0.92
Chi-Chi	Taiwan	1999	TCU076	6.2	RV	14.66	P	0.16
Vrancea	Romania	1990	Istrita	6.9	thrust	80	E-W	0.01
Vrancea	Romania	1990	Istrita	6.9	thrust	80	N-S	0.02
Campano	Italy	1980	Bagnoli-Irpino	6.9	N	23	E-W	0.09
Campano	Italy	1980	Bagnoli-Irpino	6.9	N	23	N-S	0.14
Campano	Italy	1980	Brienza	6.9	N	43	E-W	0.18
Campano	Italy	1980	Brienza	6.9	N	43	N-S	0.22
Campano	Italy	1980	Mercato San Severino	6.9	N	48	E-W	0.17
Campano	Italy	1980	Mercato San Severino	6.9	N	48	N-S	0.21
Campano	Italy	1980	Calitri	6.9	N	16	E-W	0.15
Campano	Italy	1980	Calitri	6.9	N	16	N-S	0.17
Campano	Italy	1980	Bisaccia	6.9	N	26	E-W	0.09
Campano	Italy	1980	Bisaccia	6.9	N	26	N-S	0.08
Campano	Italy	1981	Conza-Base	5.2	N	5	E-W	0.07
Campano	Italy	1981	Conza-Base	5.2	N	5	N-S	0.10
Campano	Italy	1981	Cairano 2	5.2	N	5	E-W	0.13
Campano	Italy	1981	Cairano 2	5.2	N	5	N-S	0.17
Campano	Italy	1981	Conza-Vetta	5.2	N	5	E-W	0.07
Campano	Italy	1981	Conza-Vetta	5.2	N	5	N-S	0.09
Campano	Italy	1981	Cairano 1	5.2	N	5	E-W	0.15
Campano	Italy	1981	Cairano 1	5.2	N	5	N-S	0.15
Westmorland	USA	1981	Westmorland Fire Sta	5.9	SS	6.5	N	0.37
Campano	Italy	1981	Procisa Nuova	5.2	N	8	E-W	0.07
Campano	Italy	1981	Procisa Nuova	5.2	N	8	N-S	0.11
Chi-Chi	Taiwan	1999	CHY101	6.3	RV	35.97	P	0.15
Alkion	Greece	1981	Korinthos-OTE Building	6.6	N	20	E-W	0.23
Alkion	Greece	1981	Korinthos-OTE Building	6.6	N	20	N-S	0.30
Alkion	Greece	1981	Xilokastro-OTE Building	6.6	N	19	E-W	0.28
Alkion	Greece	1981	Xilokastro-OTE Building	6.6	N	19	N-S	0.17
Alkion	Greece	1981	Korinthos-OTE Building	6.3	N	25	E-W	0.11
Alkion	Greece	1981	Korinthos-OTE Building	6.3	N	25	N-S	0.12
Chi-Chi	Taiwan	1999	TCU080	6.3	RV	10.2	N	0.47
Panisler	Turkey	1983	Horasan-Meteoroloji Mudurlugu	6.6	SS	33	E-W	0.05
Panisler	Turkey	1983	Horasan-Meteoroloji Mudurlugu	6.6	SS	33	N-S	0.10
Umbria	Italy	1984	Nocera Umbra	5.6	N	19	E-W	0.20
Umbria	Italy	1984	Nocera Umbra	5.6	N	19	N-S	0.16
Umbria	Italy	1984	Pietralunga	5.6	N	27	E-W	0.17
Umbria	Italy	1984	Pietralunga	5.6	N	27	N-S	0.18
Lazio	Italy	1984	Atina	5.9	N	5	E-W	0.10
Lazio	Italy	1984	Atina	5.9	N	5	N-S	0.11
Lazio	Italy	1984	Ortucchio	5.9	N	16	E-W	0.06
Lazio	Italy	1984	Ortucchio	5.9	N	16	N-S	0.09
Lazio	Italy	1984	Cassino-Sant' Elia	5.9	N	16	E-W	0.14
Lazio	Italy	1984	Cassino-Sant' Elia	5.9	N	16	N-S	0.11
Tirana	Albania	1988	Tirana-Hotel Tirana (Roof)	5.9	thrust	7	E-W	0.12

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Tirana	Albania	1988	Tirana-Hotel Tirana (Roof)	5.9	thrust	7	N-S	0.16
Tirana	Albania	1988	Tirana-Seismological Observatory	5.9	thrust	7	E-W	0.11
Tirana	Albania	1988	Tirana-Seismological Observatory	5.9	thrust	7	N-S	0.40
Lazio	Italy	1984	Villetta-Barrea	5.5	N	6	E-W	0.14
Lazio	Italy	1984	Villetta-Barrea	5.5	N	6	N-S	0.21
Coalinga	USA	1983	Oil City	5.8	RV	8.46	P	0.44
Kalamata	Greece	1986	Kalamata-Prefecture	5.9	N	10	E-W	0.21
Kalamata	Greece	1986	Kalamata-Prefecture	5.9	N	10	N-S	0.29
Kalamata	Greece	1986	Kalamata-OTE Building	5.9	N	11	E-W	0.24
Kalamata	Greece	1986	Kalamata-OTE Building	5.9	N	11	N-S	0.27
Coalinga	USA	1983	Transmitter Hill	5.8	RV	9.51	P	1.08
Etolia	Greece	1988	Valsamata-Seismograph Station	5.3	thrust	23	E-W	0.16
Etolia	Greece	1988	Valsamata-Seismograph Station	5.3	thrust	23	N-S	0.17
Ionian	Greece	1973	Lefkada-OTE Building	5.8	thrust	15	E-W	0.51
Ionian	Greece	1973	Lefkada-OTE Building	5.8	thrust	15	N-S	0.25
Izmit	Turkey	1999	Istanbul-Atakoy	7.6	SS	101	E-W	0.10
Izmit	Turkey	1999	Istanbul-Atakoy	7.6	SS	101	N-S	0.16
Izmit	Turkey	1999	Istanbul-Zeytinburnu	7.6	SS	96	E-W	0.11
Izmit	Turkey	1999	Istanbul-Zeytinburnu	7.6	SS	96	N-S	0.11
Kyllini	Greece	1988	Amaliada-OTE Building	5.9	SS	36	E-W	0.08
Kyllini	Greece	1988	Amaliada-OTE Building	5.9	SS	36	N-S	0.15
Spitak	Armenia	1988	Gukasian	6.7	thrust	36	E-W	0.18
Spitak	Armenia	1988	Gukasian	6.7	thrust	36	N-S	0.18
Azores	Portugal	1973	San Mateus	5.4	SS	5	E-W	0.27
Azores	Portugal	1973	San Mateus	5.4	SS	5	N-S	0.20
Morgan Hill	USA	1984	Gilroy Array #6	6.1	SS	9.86	P	0.22
Iceland	Iceland	2000	Hella	6.5	SS	15	E-W	0.20
Iceland	Iceland	2000	Hella	6.5	SS	15	N-S	0.47
Iceland	Iceland	2000	Flagbjarnarholt	6.5	SS	5	E-W	0.31
Iceland	Iceland	2000	Flagbjarnarholt	6.5	SS	5	N-S	0.33
Iceland	Iceland	2000	Minni-Nupur	6.5	SS	13	E-W	0.13
Iceland	Iceland	2000	Minni-Nupur	6.5	SS	13	N-S	0.15
Iceland	Iceland	2000	Solheimar	6.5	SS	17	E-W	0.39
Iceland	Iceland	2000	Solheimar	6.5	SS	17	N-S	0.24
Iceland	Iceland	2000	Selsund	6.5	SS	21	E-W	0.27
Iceland	Iceland	2000	Selsund	6.5	SS	21	N-S	0.22
Iceland	Iceland	2000	Hveragerdi-Retirement House	6.5	SS	41	E-W	0.09
Iceland	Iceland	2000	Hveragerdi-Retirement House	6.5	SS	41	N-S	0.11
Manjil	Iran	1990	Abhar	7.4	OBL	91	E-W	0.13
Manjil	Iran	1990	Abhar	7.4	OBL	91	N-S	0.20
Javakheti	Armenia	1990	Bavra	5.4	SS	29	E-W	0.08
Javakheti	Armenia	1990	Bavra	5.4	SS	29	N-S	0.12
Nahanni	Canada	1985	Site 2	6.7	RV	4.93	N	0.49
Friuli	Italy	1976	Codroipo	6.5	thrust	42	E-W	0.06
Friuli	Italy	1976	Codroipo	6.5	thrust	42	N-S	0.09
Racha	Georgia	1991	Ambrolauri	5.6	thrust	11	E-W	0.35
Racha	Georgia	1991	Ambrolauri	5.6	thrust	11	N-S	0.50
Oelfus	Iceland	1998	Thorlakshofn	5.1	OBL	11	E-W	0.14
Oelfus	Iceland	1998	Thorlakshofn	5.1	OBL	11	N-S	0.09
Hengill	Iceland	1998	Hveragerdi-Church	5.4	SS	6	E-W	0.17
Hengill	Iceland	1998	Hveragerdi-Church	5.4	SS	6	N-S	0.13
N. Palm Springs	USA	1986	North Palm Springs	6.1	RV-OBL	4.04	P	0.69
Racha	Georgia	1991	Iri	6.0	thrust	40	E-W	0.11
Racha	Georgia	1991	Iri	6.0	thrust	40	N-S	0.10
Chenoua	Algeria	1989	Cherchell	5.9	thrust	29	E-W	0.28
Chenoua	Algeria	1989	Cherchell	5.9	thrust	29	N-S	0.23
Pyrgos	Greece	1993	Pyrgos-Agriculture Bank	5.4	OBL	10	E-W	0.14
Pyrgos	Greece	1993	Pyrgos-Agriculture Bank	5.4	OBL	10	N-S	0.43
Friuli	Italy	1976	Tolmezzo-Diga Ambiesta	6.5	thrust	23	E-W	0.35
Friuli	Italy	1976	Tolmezzo-Diga Ambiesta	6.5	thrust	23	N-S	0.31
Banja	Bosnia and Herzegovina	1981	Banja Luka-Borik 2	5.7	OBL	7	E-W	0.26

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Banja	Bosnia and Herzegovina	1981	Banja Luka-Borik 2	5.7	OBL	7	N-S	
Banja	Bosnia and Herzegovina	1981	Banja Luka-Borik 9	5.7	OBL	7	E-W	0.36
Banja	Bosnia and Herzegovina	1981	Banja Luka-Borik 9	5.7	OBL	7	N-S	0.22
Banja	Bosnia and Herzegovina	1981	Banja Luka-Institut za Ispitivanje Materijala	5.7	OBL	7	E-W	0.43
Banja	Bosnia and Herzegovina	1981	Banja Luka-Institut za Ispitivanje Materijala	5.7	OBL	7	N-S	0.40
San Salvador	El Salvador	1986	National Geographical Inst	5.8	SS	6.99	N	0.61
Patras	Greece	1993	Patra-OTE Building	5.6	SS	10	E-W	0.11
Patras	Greece	1993	Patra-OTE Building	5.6	SS	10	N-S	0.18
Corinth	Greece	1993	Nafpaktos-OTE Building	5.3	N	10	E-W	0.07
Corinth	Greece	1993	Nafpaktos-OTE Building	5.3	N	10	N-S	0.10
Akaba	Egypt	1995	Eilat	7.1	OBL	93	E-W	0.08
Akaba	Egypt	1995	Eilat	7.1	OBL	93	N-S	0.09
Kalamata	Greece	1997	Koroni-Town Hall (Library)	6.4	thrust	48	E-W	0.12
Kalamata	Greece	1997	Koroni-Town Hall (Library)	6.4	thrust	48	N-S	0.11
Magion	Greece	1983	Ouranoupolis-Seismograph Station	6.6	SS	76	E-W	0.11
Magion	Greece	1983	Ouranoupolis-Seismograph Station	6.6	SS	76	N-S	0.08
Kozani	Greece	1995	Chromio-Community Building	5.3	N	16	E-W	0.13
Kozani	Greece	1995	Chromio-Community Building	5.3	N	16	N-S	0.12
Kozani	Greece	1995	Kozani-Prefecture	6.5	N	17	E-W	0.20
Kozani	Greece	1995	Kozani-Prefecture	6.5	N	17	N-S	0.14
Arnaia	Greece	1995	Poligiros-Prefecture	5.3	N	28	E-W	0.14
Arnaia	Greece	1995	Poligiros-Prefecture	5.3	N	28	N-S	0.10
Whittier Narrows	USA	1987	Downey - Co Maint Bldg	6.0	RV-OBL	20.82	P	0.22
Levkas	Greece	1994	Vasiliki-Town Hall	5.1	SS	15	E-W	0.09
Levkas	Greece	1994	Vasiliki-Town Hall	5.1	SS	15	N-S	0.10
Umbria	Italy	1997	Colfiorito	5.5	N	7	E-W	0.13
Umbria	Italy	1997	Colfiorito	5.5	N	7	N-S	0.11
Umbria	Italy	1997	Nocera Umbra	5.5	N	11	E-W	0.51
Umbria	Italy	1997	Nocera Umbra	5.5	N	11	N-S	0.30
Umbria	Italy	1997	Nocera Umbra-Salmata	5.5	N	15	E-W	0.15
Umbria	Italy	1997	Nocera Umbra-Salmata	5.5	N	15	N-S	0.18
Iceland	Iceland	2000	Kaldarholt	6.5	SS	7	E-W	0.61
Iceland	Iceland	2000	Kaldarholt	6.5	SS	7	N-S	0.50
Iceland	Iceland	2000	Burfell-Hydroelectric Power Station	6.5	SS	29	E-W	0.09
Iceland	Iceland	2000	Burfell-Hydroelectric Power Station	6.5	SS	29	N-S	0.06
Iceland	Iceland	2000	Thjorsarbru	6.5	SS	15	E-W	0.35
Iceland	Iceland	2000	Thjorsarbru	6.5	SS	15	N-S	0.51
Iceland	Iceland	2000	Hveragerdi-Church	6.5	SS	41	E-W	0.11
Iceland	Iceland	2000	Hveragerdi-Church	6.5	SS	41	N-S	0.11
Iceland	Iceland	2000	Kaldarholt	6.5	?	6	E-W	0.21
Iceland	Iceland	2000	Kaldarholt	6.5	?	6	N-S	0.22
Iceland	Iceland	2000	Flagbjarnarholt	6.5	?	11	E-W	0.07
Iceland	Iceland	2000	Flagbjarnarholt	6.5	?	11	N-S	0.09
Iceland	Iceland	2000	Thjorsarbru	6.5	?	10	E-W	0.21
Iceland	Iceland	2000	Thjorsarbru	6.5	?	10	N-S	0.24
Iceland	Iceland	2000	Selfoss-Hospital	6.4	SS	14	E-W	0.17
Iceland	Iceland	2000	Selfoss-Hospital	6.4	SS	14	N-S	0.11
Iceland	Iceland	2000	Hveragerdi-Church	6.4	SS	24	E-W	0.12
Iceland	Iceland	2000	Hveragerdi-Church	6.4	SS	24	N-S	0.06
Iceland	Iceland	2000	Kaldarholt	6.4	SS	12	E-W	0.33
Iceland	Iceland	2000	Kaldarholt	6.4	SS	12	N-S	0.38
Iceland	Iceland	2000	Thorlakshofn	6.4	SS	35	E-W	0.10
Iceland	Iceland	2000	Thorlakshofn	6.4	SS	35	N-S	0.03
Iceland	Iceland	2000	Hella	6.4	SS	21	E-W	0.11
Iceland	Iceland	2000	Hella	6.4	SS	21	N-S	0.16
Iceland	Iceland	2000	Thjorsartun	6.4	SS	6	E-W	0.52
Iceland	Iceland	2000	Thjorsartun	6.4	SS	6	N-S	0.56

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Iceland	Iceland	2000	Solheimar	6.4	SS	11	E-W	0.41
Iceland	Iceland	2000	Solheimar	6.4	SS	11	N-S	0.71
Iceland	Iceland	2000	Selfoss-City Hall	6.4	SS	15	E-W	0.12
Iceland	Iceland	2000	Selfoss-City Hall	6.4	SS	15	N-S	0.11
Iceland	Iceland	2000	Hveragerdi-Retirement House	6.4	SS	24	E-W	0.11
Iceland	Iceland	2000	Hveragerdi-Retirement House	6.4	SS	24	N-S	0.05
Iceland	Iceland	2000	Irafoss-Hydroelectric Power Station	6.4	SS	20	E-W	0.05
Iceland	Iceland	2000	Irafoss-Hydroelectric Power Station	6.4	SS	20	N-S	0.10
Iceland	Iceland	2000	Ljosafoss-Hydroelectric Power Station	6.4	SS	20	E-W	0.10
Iceland	Iceland	2000	Ljosafoss-Hydroelectric Power Station	6.4	SS	20	N-S	0.08
Iceland	Iceland	2000	Thjorsarbru	6.4	SS	5	E-W	0.73
Iceland	Iceland	2000	Thjorsarbru	6.4	SS	5	N-S	0.82
Izmit	Turkey	1999	Karamursel	5.8	OBL	41	E-W	0.09
Izmit	Turkey	1999	Karamursel	5.8	OBL	41	N-S	0.10
Duzce	Turkey	1999	IRIGM Station No. 487	7.2	OBL	22	E-W	0.29
Duzce	Turkey	1999	IRIGM Station No. 487	7.2	OBL	22	N-S	0.29
Duzce	Turkey	1999	IRIGM Station No. 498	7.2	OBL	23	E-W	0.33
Duzce	Turkey	1999	IRIGM Station No. 498	7.2	OBL	23	N-S	0.38
Umbria	Italy	1997	Nocera Umbra	5.6	N	24	E-W	0.13
Umbria	Italy	1997	Nocera Umbra	5.6	N	24	N-S	0.14
Izmit	Turkey	1999	Bahcecik-Seymen Kislasi	5.1	OBL	6	E-W	0.18
Izmit	Turkey	1999	Bahcecik-Seymen Kislasi	5.1	OBL	6	N-S	0.19
Izmit	Turkey	1999	Bahcecik-Seymen Kislasi	5.8	OBL	16	E-W	0.30
Izmit	Turkey	1999	Bahcecik-Seymen Kislasi	5.8	OBL	16	N-S	0.38
Izmit	Turkey	1999	Gebze-Eskihisar Karakolu	5.8	OBL	56	E-W	0.05
Izmit	Turkey	1999	Gebze-Eskihisar Karakolu	5.8	OBL	56	N-S	0.08
Izmit	Turkey	1999	Tepetarla Koyu Muhtar Evi	5.8	OBL	5	E-W	0.60
Izmit	Turkey	1999	Tepetarla Koyu Muhtar Evi	5.8	OBL	5	N-S	0.33
Izmit	Turkey	1999	Bahcecik-Seymen Kislasi	5.2	OBL	49	E-W	0.07
Izmit	Turkey	1999	Bahcecik-Seymen Kislasi	5.2	OBL	49	N-S	0.09
Izmit	Turkey	1999	Yarimca (ERI)	5.8	OBL	27	E-W	0.08
Izmit	Turkey	1999	Yarimca (ERI)	5.8	OBL	27	N-S	0.12
Izmit	Turkey	1999	Golcuk-Ford instrument 1 on the subsided part	5.2	OBL	44	E-W	0.15
Izmit	Turkey	1999	Golcuk-Ford instrument 1 on the subsided part	5.2	OBL	44	N-S	0.15
Umbria	Italy	1997	Norcia	5.6	N	20	E-W	0.10
Umbria	Italy	1997	Norcia	5.6	N	20	N-S	0.13
Izmit	Turkey	1999	Golcuk-Ford instrument 2 on the subsided part	5.2	OBL	43	E-W	0.11
Izmit	Turkey	1999	Golcuk-Ford instrument 2 on the subsided part	5.2	OBL	43	N-S	0.15
Whittier Narrows	USA	1987	LB - Orange Ave	6.0	RV-OBL	24.54	P	0.15
Duzce	Turkey	1999	LDEO Station No. C1058 BV	7.2	OBL	11	E-W	0.11
Duzce	Turkey	1999	LDEO Station No. C1058 BV	7.2	OBL	11	N-S	0.07
Duzce	Turkey	1999	LDEO Station No. C1059 FP	7.2	OBL	23	E-W	0.13
Duzce	Turkey	1999	LDEO Station No. C1059 FP	7.2	OBL	23	N-S	0.15
Duzce	Turkey	1999	LDEO Station No. C1059 FP	7.2	OBL	23	E-W	0.12
Duzce	Turkey	1999	LDEO Station No. C1061	7.2	OBL	31	N-S	0.10
Duzce	Turkey	1999	LDEO Station No. C1062 FI	7.2	OBL	28	E-W	0.25
Duzce	Turkey	1999	LDEO Station No. C1062 FI	7.2	OBL	28	N-S	0.11
Umbria	Italy	1997	Nocera Umbra-Biscontini	5.5	N	10	E-W	0.29
Umbria	Italy	1997	Nocera Umbra-Biscontini	5.5	N	10	N-S	0.35
Izmit	Turkey	1999	USGS Golden Station KOR	5.8	OBL	25	E-W	0.09
Izmit	Turkey	1999	USGS Golden Station KOR	5.8	OBL	25	N-S	0.11
Izmit	Turkey	1999	USGS Golden Station OIL	5.8	OBL	26	E-W	0.16
Izmit	Turkey	1999	USGS Golden Station OIL	5.8	OBL	26	N-S	0.15
Izmit	Turkey	1999	USGS Golden Station TUW	5.8	OBL	25	E-W	0.11
Izmit	Turkey	1999	USGS Golden Station TUW	5.8	OBL	25	N-S	0.11
Izmit	Turkey	1999	USGS Golden Station DOR	5.2	OBL	16	E-W	0.18

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Izmit	Turkey	1999	USGS Golden Station DOR	5.2	OBL	16	N-S	0.20
Izmit	Turkey	1999	USGS Golden Station KOR	5.2	OBL	39	E-W	0.11
Izmit	Turkey	1999	USGS Golden Station KOR	5.2	OBL	39	N-S	0.06
Izmit	Turkey	1999	USGS Golden Station OIL	5.2	OBL	38	E-W	0.21
Izmit	Turkey	1999	USGS Golden Station OIL	5.2	OBL	38	N-S	0.22
Izmit	Turkey	1999	USGS Golden Station SUB	5.2	OBL	15	E-W	0.11
Izmit	Turkey	1999	USGS Golden Station SUB	5.2	OBL	15	N-S	0.10
Izmit	Turkey	1999	USGS Golden Station TUW	5.2	OBL	39	E-W	0.12
Izmit	Turkey	1999	USGS Golden Station TUW	5.2	OBL	39	N-S	0.09
Umbria	Italy	1997	Assisi-Stallone	5.5	N	20	E-W	0.10
Umbria	Italy	1997	Assisi-Stallone	5.5	N	20	N-S	0.18
Vrancea	Romania	1986	Bacau	7.2	thrust	123	E-W	0.09
Vrancea	Romania	1986	Bacau	7.2	thrust	123	N-S	0.07
Vrancea	Romania	1986	Bucharest-Magurele	7.2	thrust	134	E-W	0.14
Vrancea	Romania	1986	Bucharest-Magurele	7.2	thrust	134	N-S	0.11
Vrancea	Romania	1986	Petresti-Focsani	7.2	thrust	75	E-W	0.27
Vrancea	Romania	1986	Petresti-Focsani	7.2	thrust	75	N-S	0.30
Vrancea	Romania	1990	Bacau	6.9	thrust	82	E-W	0.13
Vrancea	Romania	1990	Bacau	6.9	thrust	82	N-S	0.12
Vrancea	Romania	1990	Carcaliu	6.9	thrust	137	E-W	0.16
Vrancea	Romania	1990	Carcaliu	6.9	thrust	137	N-S	0.09
Vrancea	Romania	1990	Surduc	6.9	thrust	46	E-W	0.09
Vrancea	Romania	1990	Surduc	6.9	thrust	46	N-S	0.10
Vrancea	Romania	1990	Istrita	6.3	thrust	77	E-W	0.09
Vrancea	Romania	1990	Istrita	6.3	thrust	77	N-S	0.06
Izmit	Turkey	1999	Istanbul-K.M.Pasa	7.6	SS	95	E-W	0.13
Izmit	Turkey	1999	Istanbul-K.M.Pasa	7.6	SS	95	N-S	0.09
Izmit	Turkey	1999	Adapazari Bahtiyat Topcu Evi	5.8	OBL	23	E-W	0.19
Izmit	Turkey	1999	Adapazari Bahtiyat Topcu Evi	5.8	OBL	23	N-S	0.13
Izmit	Turkey	1999	Adapazari Seker Fb.	5.8	OBL	25	E-W	0.14
Izmit	Turkey	1999	Adapazari Seker Fb.	5.8	OBL	25	N-S	0.07
Izmit	Turkey	1999	Yarimca-Petkim	5.8	OBL	27	E-W	0.09
Izmit	Turkey	1999	Yarimca-Petkim	5.8	OBL	27	N-S	0.09
Friuli	Italy	1976	Tarcento	7.2	thrust	8	E-W	0.19
Friuli	Italy	1976	Tarcento	7.2	thrust	8	N-S	0.09
Ishakli	Turkey	2002	Afyon-Bayindirlik ve Iskan Mudurlugu	6.5	N	66	E-W	0.11
Ishakli	Turkey	2002	Afyon-Bayindirlik ve Iskan Mudurlugu	6.5	N	66	N-S	0.09
Bingol	Turkey	2003	Bingol-Bayindirlik Murlugu	6.3	SS	14	E-W	0.51
Bingol	Turkey	2003	Bingol-Bayindirlik Murlugu	6.3	SS	14	N-S	0.29
Firuzabad	Iran	1994	Zarrat	5.9	SS	21	E-W	0.30
Firuzabad	Iran	1994	Zarrat	5.9	SS	21	N-S	0.25
Firuzabad	Iran	1994	Firoozabad	5.9	SS	22	E-W	0.25
Firuzabad	Iran	1994	Firoozabad	5.9	SS	22	N-S	0.27
Firuzabad	Iran	1994	Zanjiran	5.9	SS	7	E-W	0.98
Firuzabad	Iran	1994	Zanjiran	5.9	SS	7	N-S	1.04
Bonjurd	Iran	1997	Ashkhaneh	6.5	SS	39	E-W	0.10
Bonjurd	Iran	1997	Ashkhaneh	6.5	SS	39	N-S	0.10
Avej	Iran	2002	Abgarm (Mokhaberat)	6.5	thrust	33	E-W	0.11
Avej	Iran	2002	Abgarm (Mokhaberat)	6.5	thrust	33	N-S	0.12
Avej	Iran	2002	Avaj (Bakhshdari)	6.5	thrust	28	E-W	0.44
Avej	Iran	2002	Avaj (Bakhshdari)	6.5	thrust	28	N-S	0.42
Avej	Iran	2002	Kabudarahang (Farmandari)	6.5	thrust	56	E-W	0.08
Avej	Iran	2002	Kabudarahang (Farmandari)	6.5	thrust	56	N-S	0.15
Avej	Iran	2002	Razan (Farmandari)	6.5	thrust	33	E-W	0.17
Avej	Iran	2002	Razan (Farmandari)	6.5	thrust	33	N-S	0.19
Avej	Iran	2002	Ghohord-S (Dehdadri)	6.5	thrust	81	E-W	0.05
Avej	Iran	2002	Ghohord-S (Dehdadri)	6.5	thrust	81	N-S	0.08
Avej	Iran	2002	Shirinsu (Bakhshdari)	6.5	thrust	47	E-W	0.17
Avej	Iran	2002	Shirinsu (Bakhshdari)	6.5	thrust	47	N-S	0.12
Superstition Hills	USA	1987	El Centro Imp. Co. Cent	6.5	SS	18.2	P	0.36
Superstition Hills	USA	1987	Kornbloom Road (temp)	6.5	SS	18.48	N	0.12
Superstition Hills	USA	1987	Parachute Test Site	6.5	SS	0.95	P	0.38

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Sahneh	Iran	2002	Sahneh (Shahrdari)	5.2	thrust	25	E-W	0.09
Sahneh	Iran	2002	Sahneh (Shahrdari)	5.2	thrust	25	N-S	0.05
Umbria	Italy	1997	Norcia-Zona Industriale	5.6	N	21	E-W	0.11
Umbria	Italy	1997	Norcia-Zona Industriale	5.6	N	21	N-S	0.08
Loma Prieta	USA	1989	Gilroy - Gavilan Coll.	6.9	RV-OBL	9.96	P	0.33
Loma Prieta	USA	1989	Gilroy - Historic Bldg.	6.9	RV-OBL	10.97	N	0.24
Loma Prieta	USA	1989	Gilroy Array #1	6.9	RV-OBL	9.64	P	0.41
Umbria	Italy	1997	Borgo-Cerreto Torre	5.2	OBL	11	E-W	0.15
Umbria	Italy	1997	Borgo-Cerreto Torre	5.2	OBL	11	N-S	0.15
Loma Prieta	USA	1989	Gilroy Array #2	6.9	RV-OBL	11.07	P	0.37
Umbria	Italy	1997	Borgo-Cerreto Torre	5.6	N	12	E-W	0.32
Umbria	Italy	1997	Borgo-Cerreto Torre	5.6	N	12	N-S	0.33
San Fernando	USA	1971	Pacoima Dam (upper left abut)	6.6	RV	1.81	P	1.16
Loma Prieta	USA	1989	Oakland - Title & Trust	6.9	RV-OBL	72.2	N	0.20
Duzce	Turkey	1999	IRIGM Station No. 487	7.2	?	16	E-W	0.29
Duzce	Turkey	1999	IRIGM Station No. 492	7.2	?	18	N-S	0.21
Duzce	Turkey	1999	IRIGM Station No. 498	7.2	?	17	E-W	0.21
Duzce	Turkey	1999	IRIGM Station No. 498	7.2	?	17	N-S	0.18
Bam	Iran	2003	Mohammad Abad-e-Maskoon	6.6	OBL	42	E-W	0.12
Bam	Iran	2003	Mohammad Abad-e-Maskoon	6.6	OBL	42	N-S	0.07
Bam	Iran	2003	Bam-Governor's Office	6.6	OBL	11	E-W	0.79
Bam	Iran	2003	Bam-Governor's Office	6.6	OBL	11	N-S	0.62
Bam	Iran	2003	Abaragh	6.3	OBL	53	E-W	0.17
Bam	Iran	2003	Abaragh	6.3	OBL	53	N-S	0.10
Loma Prieta	USA	1989	Saratoga - Aloha Ave	6.9	RV-OBL	8.5	P	0.51
Umbria	Italy	1997	Nocera Umbra-Biscontini	5.3	N	8	E-W	0.20
Umbria	Italy	1997	Nocera Umbra-Biscontini	5.3	N	8	N-S	0.28
Umbria	Italy	1997	Colfiorito-Casermette	5.3	N	5	E-W	0.15
Umbria	Italy	1997	Colfiorito-Casermette	5.3	N	5	N-S	0.18
Cape Mendocino	USA	1992	Cape Mendocino	7.0	RV	6.96	N	1.04
Landers	USA	1992	Barstow	7.3	SS	34.86	P	0.13
Umbria	Italy	1998	Nocera Umbra-Biscontini	5.1	N	11	E-W	0.15
Umbria	Italy	1998	Nocera Umbra-Biscontini	5.1	N	11	N-S	0.31
Dinar	Turkey	1995	Dinar-Meteoroloji Mudurlugu	6.4	N	8	E-W	0.27
Dinar	Turkey	1995	Dinar-Meteoroloji Mudurlugu	6.4	N	8	N-S	0.31
Landers	USA	1992	Lucerne	7.3	SS	2.19	P	0.79
Landers	USA	1992	Yermo Fire Station	7.3	SS	23.62	P	0.15
Potenza	Italy	1990	Rionero in Vulture	5.8	SS	36	E-W	0.08
Potenza	Italy	1990	Rionero in Vulture	5.8	SS	36	N-S	0.09
Potenza	Italy	1990	Brienza	5.8	SS	28	E-W	0.09
Potenza	Italy	1990	Brienza	5.8	SS	28	N-S	0.08
Sicilia	Italy	1990	Noto	5.6	SS	51	E-W	0.06
Sicilia	Italy	1990	Noto	5.6	SS	51	N-S	0.09
Campano	Italy	1981	Contrada Fiumicella-Teora	5.2	N	4	E-W	0.11
Campano	Italy	1981	Contrada Fiumicella-Teora	5.2	N	4	N-S	0.08
Northridge	USA	1994	Jensen Filter Plant Generator	6.7	RV	5.43	P	1.02
Lazio	Italy	1984	Atina-Pretura Terrazza	5.5	N	15	E-W	0.14
Lazio	Italy	1984	Atina-Pretura Terrazza	5.5	N	15	N-S	0.08
Morgan Hill	USA	1984	Anderson Dam (Downstream)	6.1		2.6	250	0.42
Loma Prieta	USA	1989	Anderson Dam (Downstream)	7.1		21.4	270	0.24
Morgan Hill	USA	1984	Anderson Dam (Downstream)	6.1		2.6	340	0.29
Loma Prieta	USA	1989	Anderson Dam (Downstream)	7.1		21.4	360	0.24
Northridge	USA	1994	Arieta; Nordhoff Fire Station	6.7	RV	8	N	0.23
Northridge	USA	1994	Arieta; Nordhoff Fire Station	6.7	RV	8	P	0.33
Loma Prieta	USA	1989	Branciforte Drive	6.8	OBL	11.5	N	0.62
Loma Prieta	USA	1989	Branciforte Drive	6.8	OBL	11.5	P	0.41
Romania	Iran	1977	Boucharest research Institute	7.3	RV	190	TRANS	0.17
Palm Spings	USA	1986	Cabazon Post Office	6.1	OBL	6	N	0.23

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Palm Spings	USA	1986	Cabazon Post Office	6.1	OBL	6	P	0.20
Michoacan	Mexico	1985	Caleta de campos	8.0	RV	11.2	N	0.12
Michoacan	Mexico	1985	Caleta de campos	8.0	RV	11.2	P	0.13
Imperial Valley	USA	1979	Calexico Fire Station	6.4	SS	11	N	0.26
Imperial Valley	USA	1979	Calexico Fire Station	6.4	SS	11	P	0.21
Northridge	USA	1994	Canoga Park Epiphany Church	6.7	RV	13.7	N	0.35
Northridge	USA	1994	Canoga Park Epiphany Church	6.7	RV	13.7	P	0.35
Northridge	USA	1994	Canyon Country	6.7	RV	12.9	N	0.48
Northridge	USA	1994	Canyon Country	6.7	RV	12.9	P	0.37
Loma Prieta	USA	1989	Capitola Fire Station	6.9	OBL	15.6	N	0.34
Loma Prieta	USA	1989	Capitola Fire Station	6.9	OBL	15.6	P	0.51
Mexicali Valey	Mexico	1980	Cerro Pietro	6.4	SS	6.5	N	0.61
Mexicali Valey	Mexico	1980	Cerro Pietro	6.4	SS	6.5	P	0.58
Sierra Madre	USA	1991	Cogswell Dam	5.6	RV	9.4	P	0.26
Northridge	USA	1994	N. HollywoodColdwater Canyon	6.7	RV	11.8	N	0.31
Northridge	USA	1994	N. HollywoodColdwater Canyon	6.7	RV	11.8	P	0.21
Imperial Valley	USA	1979	Compuertas	6.7	SS	15.5	N	0.12
Imperial Valley	USA	1979	Compuertas	6.7	SS	15.5	P	0.19
Loma Prieta	USA	1989	Corralitos	6.9	OBL	5.1	000	0.64
Loma Prieta	USA	1989	Corralitos	6.9	OBL	5.1	090	0.47
Coyote Lake	USA	1979	San Martin Coyot Creek	5.6	SS	0.2	N	0.25
Coyote Lake	USA	1979	San Martin Coyot Creek	5.6	SS	0.2	P	0.14
Tabas	Iran	1978	Dayhook	7.4	?		LONG	0.03
Tabas	Iran	1979	Dayhook	7.4	?		TRANS	0.04
Sierra Madre	USA	1991	Eaton Canyon Park-Altadena	5.6	RV	9.6	N	0.35
Sierra Madre	USA	1991	Eaton Canyon Park-Altadena	5.6	RV	9.6	P	0.31
Imperial Valley	USA	1940	El Centro Array #9	7.2		8.3	180	0.31
Imperial Valley	USA	1941	El Centro Array #10	7.2		8.3	270	0.21
Superstition Hills	USA	1987	El Centro	6.6	SS	13.6	N	0.20
Superstition Hills	USA	1987	El Centro	6.6	SS	13.6	P	0.28
Elmore Ranch	USA	1979	Parchute Test Site	6.2	SS	17.1	N	0.10
Elmore Ranch	USA	1979	Parchute Test Site	6.2	SS	17.1	P	0.13
Elmore Ranch	USA	1979	Superstition Mountain	6.2	SS	9.2	N	0.15
Elmore Ranch	USA	1979	Superstition Mountain	6.2	SS	9.2	P	0.13
Elmore Ranch	USA	1979	Westmorland Firestation	6.2	SS	15.2	N	0.14
Elmore Ranch	USA	1979	Westmorland Firestation	6.2	SS	15.2	P	0.18
Petrolia	USA	1992	Fortuna	6.9	RV	13.5	N	0.12
Petrolia	USA	1992	Fortuna	6.9	RV	13.5	P	0.11
Kobe	Japan	1995	Fukiai	6.9		157.2	000	0.80
Loma Prieta	USA	1989	Gavilan College Physics	6.9	OBL	10.5	N	0.29
Loma Prieta	USA	1989	Gavilan College Physics	6.9	OBL	10.5	P	0.38
Coyote Lake	USA	1979	Gilroy Array 1	5.6	SS	9	N	0.09
Coyote Lake	USA	1979	Gilroy Array 1	5.6	SS	9	P	0.11
Coyote Lake	USA	1979	Gilroy Array 2	5.6	SS	7.2	N	0.16
Coyote Lake	USA	1979	Gilroy Array 2	5.6	SS	7.2	P	0.25
Coyote Lake	USA	1979	Gilroy Array 3	5.6	SS	5.1	N	0.24
Coyote Lake	USA	1979	Gilroy Array 3	5.6	SS	5.1	P	0.25
Coyote Lake	USA	1979	Gilroy Array 4	5.6	SS	3.5	N	0.29
Coyote Lake	USA	1979	Gilroy Array 4	5.6	SS	3.5	P	0.21
Loma Prieta	USA	1989	Gilroy Array #3	7.1		14.4	000	0.56
Loma Prieta	USA	1989	Gilroy Array #3	7.1		14.4	090	0.37
Morgan Hill	USA	1984	Halls Valley	6.2	SS	2	P	0.15
Loma Prieta	USA	1989	Hollister City Hall	7.1		28.2	090	0.25
Loma Prieta	USA	1989	Hollister City Hall	7.1		28.2	180	0.21

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Loma Prieta	USA	1989	Hollister - South & Pine	7.1		28.8	000	0.37
Loma Prieta	USA	1989	Hollister - South & Pine	7.1		28.8	090	0.18
Palm Spings	USA	1986	Desert Hot Springs	6.1	OBL	6.4	P	0.28
Imperial Valley	USA	1979	Bonds Corner	5.2			140	0.58
Imperial Valley	USA	1979	Bonds Corner	5.2			230	0.76
Imperial Valley	USA	1979	El Centro Diff Array	5.2			270	0.33
Imperial Valley	USA	1979	El Centro Diff Array	5.2			360	0.46
Izmit	Turkey	1999	Duzce	7.5	SS	12.7	N	0.36
Izmit	Turkey	1999	Duzce	7.5	SS	12.7	P	0.16
Landers	USA	1992	Joshua Tree	7.4		11.6	000	0.03
Landers	USA	1992	Joshua Tree	7.4		11.6	090	0.03
Kobe	Japan	1995	Kakogawa	6.9		26.4	000	0.25
Kobe	Japan	1995	Kakogawa	6.9		26.4	090	0.34
Gazli	USSR	1976	Karakyr Point	6.8	thrust	3	Trans	
Kobe	Japan	1995	Kobe Port Island	6.8	SS	3.2	N	0.84
Kobe	Japan	1995	Kobe Port Island	6.8	SS	3.2	P	0.54
Kobe	Japan	1995	Kobe university	6.8	SS	0.7	N	0.32
Kobe	Japan	1995	Kobe university	6.8	SS	0.7	P	0.23
Northridge	USA	1994	LA Fire Station 5	6.7	RV	19.2	N	0.56
Northridge	USA	1994	LA Fire Station 5	6.7	RV	19.2	P	0.46
Northridge	USA	1994	LA Fire Station 6	6.7	RV	17.3	N	0.39
Northridge	USA	1994	LA Fire Station 6	6.7	RV	17.3	P	0.40
Loma Prieta	USA	1989	Lexington Dam	6.8	OBL	6.7	N	0.44
Loma Prieta	USA	1989	Lexington Dam	6.8	OBL	6.7	P	0.39
Imperial Valley	USA	1979	Mexically Casa Flores	6.5	SS	10.4	N	0.45
Imperial Valley	USA	1979	Mexically Casa Flores	6.5	SS	10.4	P	0.30
Nahanni	Canada	1985	Site 1	6.9		6	010	0.92
Nahanni	Canada	1985	Site 1	6.9		6	280	1.07
Northridge	USA	1994	Newhall - Fire Sta	6.7		7.1	090	0.06
Northridge	USA	1994	Newhall - Fire Sta	6.7		7.1	360	0.06
Kobe	Japan	1995	Nishi-Akashi	6.9		11.1	000	0.50
Kobe	Japan	1995	Nishi-Akashi	6.9		11.1	090	0.49
San Fernando	USA	1971	Pacoima Dam	6.6	RV	2.8	164	0.03
San Fernando	USA	1971	Pacoima Dam	6.6	RV	2.8	254	0.04
Palm Spings	USA	1986	Ralm Springs Airport	6.1	OBL	10.8	N	0.52
Palm Spings	USA	1986	Ralm Springs Airport	6.1	OBL	10.8	P	0.23
Superstition Hills	USA	1987	Poe Road	6.6	SS	10.7	N	0.30
Superstition Hills	USA	1987	Poe Road	6.6	SS	10.7	P	0.36
Petrolia	USA	1992	Rio Dell	7.0	RV	13.1	N	0.41
Petrolia	USA	1992	Rio Dell	7.0	RV	13.1	P	0.53
Izmit	Turkey	1999	Sakarya	7.4	SS	3.1	N	
San Salvador	El Salvador	1986	Salvador-ivu	5.4			090	0.68
San Salvador	El Salvador	1986	Salvador-ivu	5.4			180	0.41
Sierra Madre	USA	1991	San Marino-SW Academy	6.0	RV	15.6	N	0.14
Sierra Madre	USA	1991	San Marino-SW Academy	6.0	RV	15.6	P	0.12
Northridge	USA	1994	Santa Monica City Hall	6.7		27.6	090	0.09
Northridge	USA	1994	Santa Monica City Hall	6.7		27.6	360	0.04
Northridge	USA	1994	Sepulveda Veterans Hospital	6.7	RV	8.4	N	0.71
Northridge	USA	1994	Sepulveda Veterans Hospital	6.7	RV	8.4	P	0.74
Parkfield	USA	1966	Cholame Shandon Array 2	6.0	SS	0.1	P	0.47
Parkfield	USA	1966	Cholame Shandon Array 5	6.4	SS	5.2	N	0.34
Parkfield	USA	1966	Cholame Shandon Array 5	6.4	SS	5.2	P	0.36
Parkfield	USA	1966	Cholame Shandon Array 8	6.2	SS	9.2	N	0.24
Parkfield	USA	1966	Cholame Shandon Array 8	6.2	SS	9.2	P	0.26
Northridge	USA	1994	Simi Valley	6.7	RV	13.4	N	0.79
Northridge	USA	1994	Simi Valley	6.7	RV	13.4	P	0.60
Northridge	USA	1994	Sun Valley Grace Church	6.0	RV	9.3	N	0.29
Northridge	USA	1994	Sun Valley Grace Church	6.0	RV	9.3	P	0.40
Superstition Hills	USA	1987	Superstition Mountain	6.6	SS	5.7	N	0.71
Superstition	USA	1987	Superstition Mountain	6.6	SS	5.7	P	0.89

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA m/sec²</i>
Hills								
Northridge	USA	1994	Sylmar County Hospital	5.1	RV	5.5	N	0.72
Northridge	USA	1994	Sylmar County Hospital	5.1	RV	5.5	P	0.58
Northridge	USA	1994	Sylmar - Olive View Med FF	6.7		6.4	090	0.06
Northridge	USA	1994	Sylmar - Olive View Med FF	6.7		6.4	360	0.08
Tabas	Iran	1978	Tabas	7.1	RV	1.2	N	0.83
Northridge	USA	1994	Tarzana Nursery	6.7	RV	14.6	N	1.31
Northridge	USA	1994	Tarzana Nursery	6.7	RV	14.6	P	1.96
Chi-Chi	Taiwan	1999	TCU067	7.6		0.33	E-W	0.05
Chi-Chi	Taiwan	1999	TCU067	7.6		0.33	N-S	0.03
Chi-Chi	Taiwan	1999	TCU084	7.6		10.39	E-W	0.03
Chi-Chi	Taiwan	1999	TCU084	7.6		10.39	N-S	0.10
Chi-Chi	Taiwan	1999	TCU129	6.2	RV	1.5	N-S	0.06
Parkfield	USA	1966	Temblor Station	6.4	SS	6.5	N	0.36
Parkfield	USA	1966	Temblor Station	6.4	SS	6.5	P	0.23
Loma Prieta	USA	1989	Treasure Island	7.1		82.9	000	0.10
Loma Prieta	USA	1989	Treasure Island	7.1		82.9	090	0.16
Northridge	USA	1994	LA UCLS Ground	6.7	RV	19.9	N	0.33
Northridge	USA	1994	LA UCLS Ground	6.7	RV	19.9	P	0.44
Michoacan	Mexico	1985	La Union	8.1	RV	20.1	N	0.14
Michoacan	Mexico	1985	La Union	8.1	RV	20.1	P	0.17
Mexicali Valey	Mexico	1980	Victoria	6.4	SS	3	P	0.86
Michoacan	Mexico	1985	La Vilita	8.0	RV	17.5	N	0.12
Michoacan	Mexico	1985	La Vilita	8.0	RV	17.5	P	0.10
Northridge	USA	1994	LA Westlake School	6.7	RV	19	N	0.20
Northridge	USA	1994	LA Westlake School	6.7	RV	19	P	0.27
Superstition Hills	USA	1987	Westmorland Firestation	6.5	SS	13.2	N	0.21
Superstition Hills	USA	1987	Westmorland Firestation	6.5	SS	13.2	P	0.23
Northridge	USA	1994	White Oak Cov. Church	6.7	RV	11.5	N	0.36
Northridge	USA	1994	White Oak Cov. Church	6.7	RV	11.5	P	0.38
Palm Spings	USA	1986	Whitewater Trout Farm	6.1	RV	6.5	N	0.52
Palm Spings	USA	1986	Whitewater Trout Farm	6.1	RV	6.5	P	0.59
Sierra Madre	USA	1991	Mt. Wilson- Caltech Station	5.6	RV	11.9	N	0.22
Sierra Madre	USA	1991	Mt. Wilson- Caltech Station	5.6	RV	11.9	P	0.23
Loma Prieta	USA	1989	Yerba Buena Island	7.1		80.6	000	0.03
Loma Prieta	USA	1989	Yerba Buena Island	7.1		80.6	090	0.07
Michoacan	Mexico	1985	Zihuatanejo	8.1	RV	16.6	N	0.13
Michoacan	Mexico	1985	Zihuatanejo	8.1	RV	16.6	P	0.16

List of records with velocity Pulse

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (Mw)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Comp onent</i>	<i>PGA (g)</i>	<i>Tp sec</i>
Northridge	USA	1994	LA - Wadsworth VA Hospital North	6.7	RV	23.6	N	0.25	2.4
Northridge	USA	1994	LA Dam	6.7	RV	5.92	N	0.35	1.7
Northridge	USA	1994	LA Dam	6.7	RV	5.92	P	0.51	2.8
Northridge	USA	1994	Newhall - Fire Sta	6.7	RV	5.92	N	0.58	2.2
Northridge	USA	1994	Newhall - W Pico Canyon Rd.	6.7	RV	5.48	N	0.45	7.1
Northridge	USA	1994	Newhall - W Pico Canyon Rd.	6.7	RV	5.48	P	0.33	9
Northridge	USA	1994	Pacoima Dam (downstr)	6.7	RV	7.01	N	0.42	0.5
Northridge	USA	1994	Pacoima Dam (upper left)	6.7	RV	7.01	N	1.29	0.9
Northridge	USA	1994	Rinaldi Receiving Sta	6.7	RV	6.5	N	0.83	1.2
Northridge	USA	1994	Rinaldi Receiving Sta	6.7	RV	6.5	P	0.49	3
Northridge	USA	1994	Sylmar - Converter Sta	6.7	RV	5.35	N	0.61	3.5
Northridge	USA	1994	Sylmar - Converter Sta East	6.7	RV	5.19	N	0.49	3.5
Northridge	USA	1994	Sylmar - Olive View Med FF	6.7	RV	5.3	N	0.60	3.1
Kobe	Japan	1995	KJMA	6.9	SS	0.96	N	0.60	1
Kobe	Japan	1995	Takarazuka	6.9	SS	0.27	N	0.69	1.4
Kobe	Japan	1995	Takatori	6.9	SS	1.47	N	0.62	1.6
Kocaeli	Turkey	1999	Arcelik	7.5	SS	13.49	P	0.22	6.7
Kocaeli	Turkey	1999	Yarimca	7.5	SS	4.83	N	0.27	4.5
Kocaeli	Turkey	1999	Yarimca	7.5	SS	4.83	P	0.35	4.6
Chi-Chi	Taiwan	1999	CHY006	7.6	RV-OBL	9.77	N	0.36	2.6
Chi-Chi	Taiwan	1999	CHY024	7.6	RV-OBL	9.64	P	0.18	6.2
Chi-Chi	Taiwan	1999	CHY035	7.6	RV-OBL	12.65	N	0.25	1.4
Chi-Chi	Taiwan	1999	CHY101	7.6	RV-OBL	9.96	N	0.35	4.8
Izmit	Turkey	1999	Gebze	7.4	SS	11	N	0.13	4.8
Izmit	Turkey	1999	Gebze	7.4	SS	11	P	0.08	6.1
Bucharest	Romania	1977	Bucharest Research Institute	7.3	RV	190	N	0.08	2.1
Sierra Madre	USA	1991	Cogswell Dam	5.6	RV	9.4	N	0.08	0.9
Chi-Chi	Taiwan	1999	TCU010	7.6	RV-OBL	82.27	P	0.07	11
Morgan Hill	USA	1984	Halls Valley	6.2	SS	2	P	0.11	0.9
Palm Spings	USA	1986	Desert Hot Springs	6.1	OBL	6.4	N	0.06	1.7
Chi-Chi	Taiwan	1999	TCU026	7.6	RV-OBL	56.12	P	0.09	9.3
Chi-Chi	Taiwan	1999	TCU029	7.6	RV-OBL	28.05	N	0.17	6.4
Gazli	USSR	1976	Karakyr Point	6.8	thrust	3	Rad	0.11	4.4
Izmit	Turkey	1999	Sakarya	7.4	?	3.1	P	0.12	9.5
Chi-Chi	Taiwan	1999	TCU034	7.6	RV-OBL	35.69	N	0.25	8.6
Chi-Chi	Taiwan	1999	TCU036	7.6	RV-OBL	19.84	N	0.14	5.4
Chi-Chi	Taiwan	1999	TCU036	7.6	RV-OBL	19.84	P	0.13	6.4
Chi-Chi	Taiwan	1999	TCU038	7.6	RV-OBL	25.44	N	0.14	7
Chi-Chi	Taiwan	1999	TCU038	7.6	RV-OBL	25.44	P	0.17	7.8
Chi-Chi	Taiwan	1999	TCU039	7.6	RV-OBL	19.9	P	0.14	8.1
Chi-Chi	Taiwan	1999	TCU040	7.6	RV-OBL	22.08	N	0.15	6.3
Chi-Chi	Taiwan	1999	TCU040	7.6	RV-OBL	22.08	P	0.12	7.9
Chi-Chi	Taiwan	1999	TCU042	7.6	RV-OBL	26.32	N	0.25	9.1
Chi-Chi	Taiwan	1999	TCU046	7.6	RV-OBL	16.74	N	0.13	8.6
Chi-Chi	Taiwan	1999	TCU049	7.6	RV-OBL	3.78	N	0.29	12
Chi-Chi	Taiwan	1999	TCU052	7.6	RV-OBL	0.66	N	0.35	8.5
Chi-Chi	Taiwan	1999	TCU053	7.6	RV-OBL	5.97	N	0.22	13
Chi-Chi	Taiwan	1999	TCU054	7.6	RV-OBL	5.3	N	0.15	10
Chi-Chi	Taiwan	1999	TCU056	7.6	RV-OBL	10.5	N	0.13	13
Chi-Chi	Taiwan	1999	TCU059	7.6	RV-OBL	17.13	P	0.17	7.6
Chi-Chi	Taiwan	1999	TCU060	7.6	RV-OBL	8.53	N	0.20	12
Chi-Chi	Taiwan	1999	TCU063	7.6	RV-OBL	9.8	P	0.13	5.1
Chi-Chi	Taiwan	1999	TCU064	7.6	RV-OBL	16.62	P	0.12	8.7
Chi-Chi	Taiwan	1999	TCU065	7.6	RV-OBL	0.59	N	0.81	5.7
Chi-Chi	Taiwan	1999	TCU068	7.6	RV-OBL	0.32	N	0.57	12
Chi-Chi	Taiwan	1999	TCU068	7.6	RV-OBL	0.32	P	0.46	11
Coyote Lake	USA	1979	Gilroy Array #6	5.7	SS	3.11	N	0.43	1.2
Chi-Chi	Taiwan	1999	TCU075	7.6	RV-OBL	0.91	N	0.33	5.1
Chi-Chi	Taiwan	1999	TCU076	7.6	RV-OBL	2.76	N	0.30	4
Chi-Chi	Taiwan	1999	TCU082	7.6	RV-OBL	5.18	N	0.22	9.2
Chi-Chi	Taiwan	1999	TCU087	7.6	RV-OBL	7	N	0.13	9
Chi-Chi	Taiwan	1999	TCU094	7.6	RV-OBL	54.53	P	0.10	9.1
Chi-Chi	Taiwan	1999	TCU096	7.6	RV-OBL	54.46	P	0.11	8.3
Parkfield	USA	1966	Cholame Shandon Array 2	6.0	SS	0.1	N	0.10	2
Tabas	Iran	1978	Tabas	7.1	RV	1.2	P	0.11	5.3

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (M_w)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Component</i>	<i>PGA (g)</i>	<i>Tp sec</i>
Chi-Chi	Taiwan	1999	TCU101	7.6	RV-OBL	2.13	N	0.20	10
Chi-Chi	Taiwan	1999	TCU101	7.6	RV-OBL	2.13	P	0.25	6.6
Chi-Chi	Taiwan	1999	TCU102	7.6	RV-OBL	1.51	N	0.30	9.7
Chi-Chi	Taiwan	1999	TCU102	7.6	RV-OBL	1.51	P	0.17	3.8
Chi-Chi	Taiwan	1999	TCU103	7.6	RV-OBL	6.1	N	0.13	8.3
Chi-Chi	Taiwan	1999	TCU104	7.6	RV-OBL	12.89	N	0.11	12
Chi-Chi	Taiwan	1999	TCU104	7.6	RV-OBL	12.89	P	0.09	7.3
Imperial Valley	USA	1979	Aeropuerto Mexicali	6.5	SS	0.34	N	0.33	2.4
Imperial Valley	USA	1979	Agrarias	6.5	SS	0.65	N	0.22	2.3
Duzce	Turkey	1999	Bolu	7.1	SS	12.0	P	0.73	0.9 1
Duzce	Turkey	1999	Duzce	7.1	SS	6.58	P	0.35	5.6
Imperial Valley	USA	1979	Brawley Airport	6.5	SS	10.42	N	0.33	4
Imperial Valley	USA	1979	EC County Center FF	6.5	SS	7.31	N	0.23	4.5
Imperial Valley	USA	1979	EC Meloland Overpass FF	6.5	SS	0.07	N	0.30	3.3
Imperial Valley	USA	1979	El Centro Array #10	6.5	SS	6.17	N	0.17	4.5
Imperial Valley	USA	1979	El Centro Array #10	6.5	SS	6.17	P	0.22	2
Imperial Valley	USA	1979	El Centro Array #11	6.5	SS	12.45	N	0.38	7.4
Imperial Valley	USA	1979	El Centro Array #3	6.5	SS	12.85	N	0.22	14. 2
Imperial Valley	USA	1979	El Centro Array #3	6.5	SS	12.85	P	0.27	11. 9
Imperial Valley	USA	1979	El Centro Array #4	6.5	SS	7.05	N	0.36	4.6
Imperial Valley	USA	1979	El Centro Array #5	6.5	SS	3.95	N	0.38	4
Imperial Valley	USA	1979	El Centro Array #6	6.5	SS	1.35	N	0.44	3.8
Imperial Valley	USA	1979	El Centro Array #6	6.5	SS	1.35	P	0.41	2.6
Imperial Valley	USA	1979	El Centro Array #7	6.5	SS	0.56	N	0.46	4.2
Imperial Valley	USA	1979	El Centro Array #7	6.5	SS	0.56	P	0.34	4.5
Imperial Valley	USA	1979	El Centro Array #8	6.5	SS	3.86	N	0.45	5.4
Imperial Valley	USA	1979	El Centro Differential Array	6.5	SS	5.09	N	0.35	5.9
Imperial Valley	USA	1979	El Centro Differential Array	6.5	SS	5.09	P	0.48	2
Imperial Valley	USA	1979	Holtville Post Office	6.5	SS	7.65	N	0.25	4.8
Imperial Valley	USA	1979	Holtville Post Office	6.5	SS	7.65	P	0.22	3.6
Chi-Chi	Taiwan	1999	CHY024	6.2	RV	19.65	N	0.19	3.2
Chi-Chi	Taiwan	1999	CHY080	6.2	RV	22.37	N	0.47	1.4
Mammoth Lakes	USA	1980	Long Valley Dam (Upr L Abut)	5.9	SS	16.23	N	0.41	1.1
Chi-Chi, Taiwan	Taiwan	1999	TCU076	6.2	RV	14.66	N	0.52	0.9 1
Irpinia	Italy	1980	Sturno	6.9	N	10.84	N	0.36	3.1
Irpinia	Italy	1980	Sturno	6.9	N	10.84	P	0.25	3.5
Westmorland	USA	1981	Parachute Test Site	5.9	SS	16.66	N	0.16	3.6
Westmorland	USA	1981	Parachute Test Site	5.9	SS	16.66	P	0.24	4.2
Westmorland	Italy	1981	Westmorland Fire Sta	5.9	SS	6.5	P	0.50	1.4
Chi-Chi	Taiwan	1999	CHY101	6.3	RV	35.97	N	0.13	2.8
Chi-Chi	Taiwan	1999	TCU080	6.3	RV	10.2	P	0.54	1
Coalinga	USA	1983	Oil City	5.8	RV	8.46	N	0.87	0.6 9
Coalinga	USA	1983	Transmitter Hill	5.8	RV	9.51	N	0.84	0.9 2
Morgan Hill	USA	1984	Coyote Lake Dam (SW Abut)	6.2	SS	0.53	N	1.30	0.9

<i>Earthquake Name</i>	<i>Country</i>	<i>Year</i>	<i>Station Name</i>	<i>Earthquake Magnitude (Mw)</i>	<i>Fault Type</i>	<i>Closest Distance</i>	<i>Comp onent</i>	<i>PGA (g)</i>	<i>Tp sec</i>
									5
Morgan Hill	USA	1984	Coyote Lake Dam (SW Abut)	6.2	SS	0.53	P	0.71	1.1
Morgan Hill	USA	1984	Gilroy Array #6	6.2	SS	9.86	N	0.29	1.2
Nahanni	Canada	1985	Site 2	6.8	RV	4.93	P	0.32	0.8 1
N. Palm Springs	USA	1986	North Palm Springs	6.1	RV-OBL	4.04	N	0.59	1.4
San Salvador	El Salvador	1986	Geotech Investig Center	5.8	SS	6.3	N	0.87	0.8 6
San Salvador	El Salvador	1986	Geotech Investig Center	5.8	SS	6.3	P	0.48	1.8
San Salvador	El Salvador	1986	National Geografical Inst	5.8	SS	6.99	P	0.41	1
Whittier Narrows	USA	1987	Downey - Co Maint Bldg	6.0	RV-OBL	20.82	N	0.14	0.7 9
Whittier Narrows	USA	1987	LB - Orange Ave	6.0	RV-OBL	24.54	N	0.26	0.9 5
Superstition Hills	USA	1987	El Centro Imp. Co. Cent	6.5	SS	18.2	N	0.26	2.4
Superstition Hills	USA	1987	Kornbloom Road (temp)	6.5	SS	18.48	P	0.14	2.1
Superstition Hills	USA	1987	Parachute Test Site	6.5	SS	0.95	N	0.45	2.3
Chi-Chi	Taiwan	1999	TCU129	6.2	RV	1.5	EW	0.21	7.7
Mexicali Valey	Mexico	1980	Victoria	6.4	SS	3	N	0.27	3.7
Loma Prieta	USA	1989	Gilroy - Gavilan Coll.	6.9	RV-OBL	9.96	N	0.36	1.8
Loma Prieta	USA	1989	Gilroy - Historic Bldg.	6.9	RV-OBL	10.97	P	0.28	1.8
Loma Prieta	USA	1989	Gilroy Array #1	6.9	RV-OBL	9.64	N	0.47	1.2
Loma Prieta	USA	1989	Gilroy Array #2	6.9	RV-OBL	11.07	N	0.32	1.7
Loma Prieta	USA	1989	Gilroy Array #3	6.9	RV-OBL	12.82	N	0.37	1.5
Loma Prieta	USA	1989	Gilroy Array #3	6.9	RV-OBL	12.82	P	0.56	3
Loma Prieta	USA	1989	LGPC	6.9	RV-OBL	3.88	N	0.59	3
Loma Prieta	USA	1989	LGPC	6.9	RV-OBL	3.88	P	0.97	4.1
San Fernando	USA	1971	Pacoima Dam (upper left abut)	6.6	RV	1.81	N	1.23	1.6
Loma Prieta	USA	1989	Oakland - Title & Trust	6.9	RV-OBL	72.2	P	0.24	1.7
Loma Prieta	USA	1989	Saratoga - Aloha Ave	6.9	RV-OBL	8.5	N	0.32	4.5
Loma Prieta	USA	1989	Saratoga - W Valley Coll.	6.9	RV-OBL	9.31	N	0.33	1.9
Loma Prieta	USA	1989	Saratoga - W Valley Coll.	6.9	RV-OBL	9.31	P	0.26	5
Erzican	Turkey	1992	Erzincan	6.7	SS	4.38	N	0.50	2.7
Erzican	Turkey	1992	Erzincan	6.7	SS	4.38	P	0.52	2.2
Cape Mendocino	USA	1992	Cape Mendocino	7.0	RV	6.96	P	1.50	4.9
Cape Mendocino	USA	1992	Petrolia	7.0	RV	8.18	N	0.66	3
Cape Mendocino	USA	1992	Petrolia	7.0	RV	8.18	P	0.59	0.9 5
Landers	USA	1992	Barstow	7.3	SS	34.86	N	0.14	8.9
Landers	USA	1992	Lucerne	7.3	SS	2.19	N	0.73	5.1
Landers	USA	1992	Yermo Fire Station	7.3	SS	23.62	N	0.24	7.5
Northridge	USA	1994	Jensen Filter Plant Generator	6.7	RV	5.43	N	0.57	3.5