

**Table 1: Geological Observations**

Date Location	#	Type <sup>*</sup>	# Length(km)	S <sup>++</sup> Average Net Slip (m)	S <sup>max</sup> Max Slip (m)	Depth (km)	Rigidity $\mu$ 10 <sup>11</sup> dyn/cm <sup>2</sup>	Mo <sup>g</sup> 10 <sup>26</sup> dyn-cm	Po <sup>g</sup> 10 <sup>15</sup> cm <sup>3</sup>	M <sub>w</sub> <sup>g</sup>	Reference &	Notes <sup>+</sup>
1857-1-9 San Andreas, CA	1	ssr	360	4.7	9.1 (12)	15	3	76	25.4	7.9	1	a
1887-5-3 Sonora, MX	2	n/60	70	2.2	4.1	15	3	8.0	2.7	7.2	2,3,48	b
1891-10-28 Neo-Dani, JPN	3	ssl	80	3.1	7.9	15	3	11.3	3.8	7.3	4	c
1896-8-31 Rikuu, JPN	4	r/45	37	2.5 [3.5]	6.2 [8.8]	15	3.0	8.2	2.7	7.2	5	d
1915-10-2 Pleasant Val, NV	5	n/45	61	1.8[2.6]	5.8[8.2]	15	3.1	10.3	3.4	7.3	6	e
1930-11-2 Kita-Izu, JPN	6	ssl	35	1.1	3.5	12	3.3	1.6	0.48	6.7	7	f
1939-12-25 Erzincan, TUR	7	ssr	300	4.2	7.4	13	3.2	52.5	16.4	7.7	8	g
1940-5-19 Imperial, CA	8	ssr	60	1.6	3.3	13	2.5	3.0	1.2	6.9	9	h
1942-12-20 Erbaa-Niksar, TUR	9	ssr	28	1.66	1.9	13	3.2	1.8	0.6	6.8	8	i
1943-11-26 Tosya, TUR	10	ssr	275	2.5	4.4	13	3.2	28.7	9.0	7.6	8	j
1943-9-10 Tottori, JPN	11	ssl	10.5	0.6	1.5	15	3.3	0.3	.09	6.3	10	k
1944-2-01 Gerede-Bolu, TUR	12	ssr	155	2.1	3.5	13	3.2	13.3	4.2	7.35	8	l
1945-1-31 Mikawa, JPN	13	r/30	4.0	1.3	2.1	8	3.0	0.24	.08	6.2	11	m
1954-12-16 Fairview Peak, NV	15	nssr /60	62	1.1	5.2	15	3.0	3.5	1.2	7.0	13	n
1954-12-16 Dixie Valley, NV	16	n/60	47	0.8[0.9]	3.1[3.5]	12	3.0	1.76	0.6	6.8	13	t
1959-8-18 Hebgen Lake, MT	14	n/50	25	2.5	5.4	15	3.0	3.7	1.25	7.0	12	s
1967-7-22 Mudurnu, TUR	17	ssr	60	0.9	2.0	12	2.4	1.6	0.65	6.7	8	u
1968-4-8 Borrego Mtn, CA	18	ssr	31	.13	0.4	12	3.3	.16	0.05	6.1	14	v
1971-02-09 San Fernando, CA	19	r/45	15	0.95	2.5	15	3.4	1.0	0.30	6.7	59	ap
1979-6-02 Cadoux, AUS	20	r/35	10	0.6	1.2	6	3.2	0.20	.06	6.1	49	x
1979-10-15 Imperial V., CA	21	ssr	36	0.28-.41	0.6-.78	13	2.5	.33-.48	0.13-0.19	6.3-6.4	15,16	w
1980-10-10 El Asnam, Algeria	22	r/50	27.3	1.2	6.5	12	3.0	1.55	0.5	6.7	60	aq
1981-7-29 Sirch Iran	23	ss/69	64	.13	.50	15	3.3	0..4 3	.13	6.4	50	aj
1983-10-28 Borah Peak, ID	24	n/45	34	.94[1.3]	2.8[4.0]	14	3.2	2.9	0.89	6.9	17	y
1986-03-03 Marryat, AUS	25	r/35	13	.24(s)[.42] 0.26u[0.46]	1.70(s) [1.2] 0.8u[1.4]	3	3.2	.09(s) .10(u)	.03(s) 03(u)	5.9(s) 5.9(u)	46	z
1987-03-02 Edgumbe, NZ	27	n/60	15.5	.06[0.7]	2.6[3.0]	10	2.6	0.33	.13	6.3	19	ao

1987-11-23 Super. Hills, CA.	26	ssr	25	0.3 - 0.6	.5 - 1.1	12	2.5	.22 - .47	.09-.19	6.2- 6.4	18	aa
1988-01-22 Tennant Crk, AUS	28	r/45	30	0.7 [1.0]	1.8[2.5]	8	3.3	1.1	.34	6.6	43	ab
1990-07-16 Luzon, PHL	29	ssl	112	3.5	6.2	20	3.5	27.4	7.84	7.6	20,21	am
1992-06-28 Landers, CA	30	ssr	77	2.3	6.7	15	3.0	8.1	2.7	7.2	22	ac
1998-03-14 Fandoqa, IRN	31	ssn /54	25	1.1	3.1	10	3.3	1.2	.36	6.6	50	ag
1999-09-21 Chi-Chi, Taiwan	32	r/70	72	3.5 [ 4.0]	12.7 [16.4]	20	3.0	18.4	6.1	7.4	23	ad
1999-08-17 Izmit, TUR	34	ssr	107 (145)	1.1	5.1	13	3.2	4.9	1.5	7.1	47	ae
1999-10-16 Hector Mine, CA.	33	ssr	44	1.56	5.2	12	3.0	2.5	0.82	6.9	57	an
1999-11-12 Duzce, TUR	35	ssr	40	2.1	5.0	13	3.2	3.5	1.1	7.0	24	af
2001-11-14 Kunlun, China	36	ssl	421	3.3	8.7	15	3.0	62.5	20.8	7.8	53	am
2001-11-14 (spot) Kunlun, China	36a	ssl	428	2.4	8.3	15	3.0	46.8	15.6.	7.8	61	al
2002-11-03 Denali, AK	37	ssr	302	3.6	8.9	15	3.2	51.6	16.1	7.7	52	ak

\* Type of earthquake mechanism and dip. Right and left-lateral strike slip are ssr and ssl, respectively. Reverse and normal are r and n, respectively. Right-lateral normal oblique motion is nssr.

++ See Notes column for explanation of calculation for each event. When two values are given, value in square brackets is calculated net slip and other is for type of slip provided in original slip distribution.

# Digitized distance along fault rupture trace.

& See Table 3 for key to references.

+ See **electronic supplement** for notes bearing on basis for assigning column values and location of epicenter when plotted.