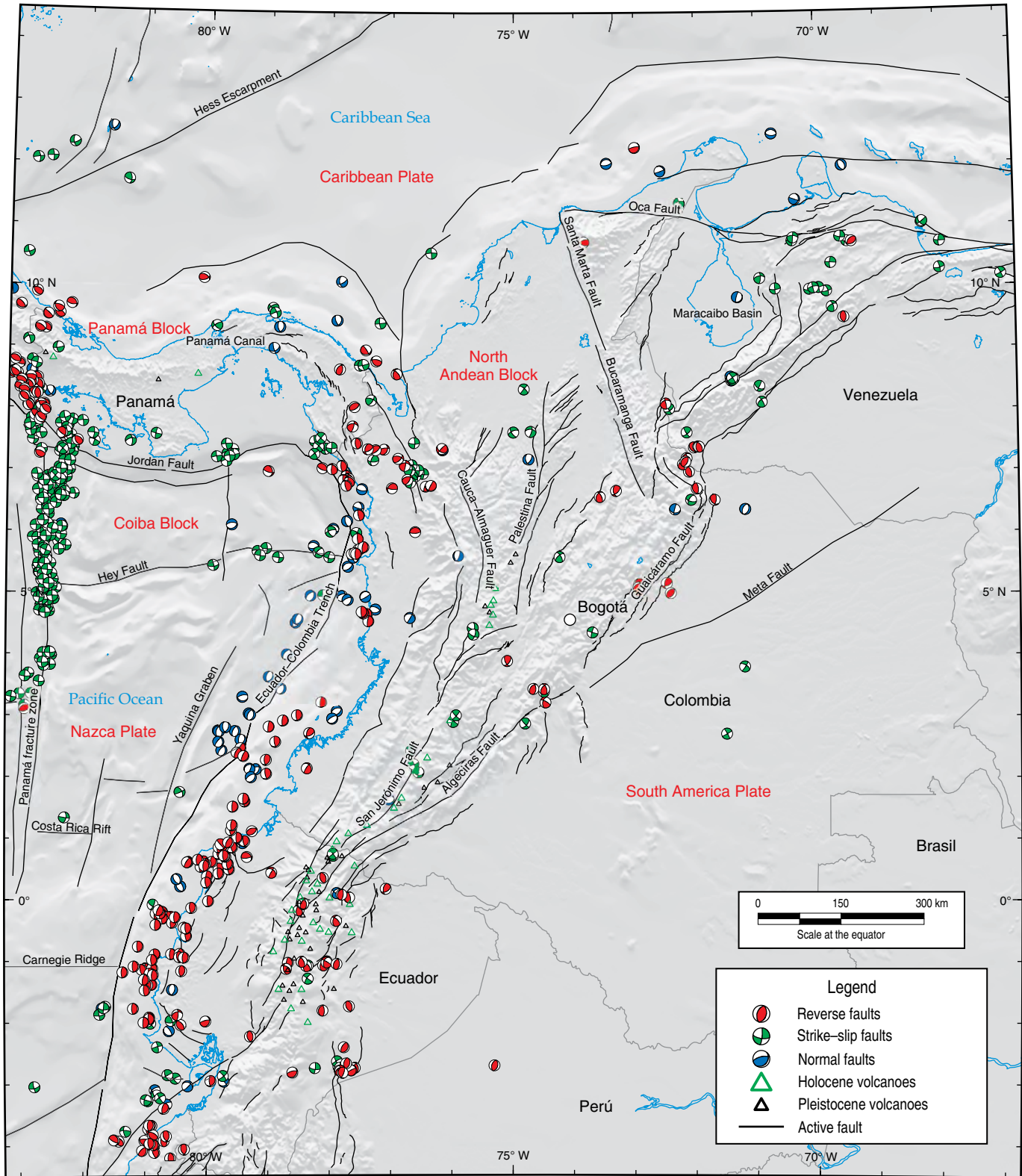


## Supplementary Information



**Figure 1.** Map of focal mechanisms analyzed with the results of the slip model for each individual mechanism.

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal.

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
1	1976/04/09 07:08:47.0	0.85	-79.567	17	6.6	32	22	136	164	75	74	R	-1.078299	78
2	1976/07/11 16:54:31.8	7.495	-78.248	15	6.7	74	63	171	167	82	27	SS_R	-4.433882	93
3	1976/07/11 20:41:47.5	7.371	-78.074	17.6	7.3	78	67	161	176	72	24	SS_R	-4.12399	119
4	1977/05/08 16:45:16.0	-1.119	-80.973	29	5.5	336	16	63	184	76	97	R	-1.015908	92
5	1977/08/07 07:08:05.6	8.489	-82.788	22.4	6	325	33	115	116	61	75	R	-1.055944	34
6	1977/08/08 07:00:06.3	6.937	-77.729	18.8	5.4	287	19	25	173	82	108	R	-1.095366	81
7	1977/08/31 00:42:05.4	7.352	-76.157	21.6	6.5	101	17	-175	7	89	-74	N	0.0822	7
8	1977/12/11 16:22:08.6	9.506	-69.564	10.1	5.4	170	38	83	359	52	95	R	-1.005661	86
9	1978/01/21 08:19:30.7	6.381	-72.354	39.4	5.4	94	35	-12	194	83	-124	N_SS	0.4452	19
10	1978/02/16 03:47:24.6	5.443	-77.7	16.4	5.6	249	36	-77	53	55	-100	N	0.0207	59
11	1978/04/04 21:11:41.8	10.098	-77.824	8.8	6.3	171	52	-151	62	68	-42	N_SS	0.9039	39
12	1978/04/28 04:28:34.2	11.907	-72.569	45.7	5.1	325	23	-16	70	84	-112	N_SS	0.1612	72
13	1978/06/15 08:18:31.3	5.693	-82.731	15	6.1	357	74	169	90	80	17	SS_R	-9.122559	32
14	1978/08/02 23:59:21.5	7.358	-77.117	30.9	5.5	21	40	38	260	67	123	R_SS	-1.345107	155
15	1978/08/08 02:58:36.6	6.997	-72.121	19.1	5.1	161	35	90	341	55	90	R_SS	-1	71
16	1979/03/01 14:33:15.2	0.626	-80.029	10.8	5.7	23	24	116	175	69	79	R	-1.032835	89
17	1979/05/05 20:04:57.7	8.389	-70.959	16.3	5.4	119	53	4	26	87	143	SS_R	-2.737582	112
18	1979/05/21 20:21:40.4	6.686	-73.318	42.7	5.5	170	48	45	47	59	128	R_SS	-1.381465	114
19	1979/06/27 09:50:03.5	7.136	-82.276	2.5	6.3	5	76	173	96	83	14	SS	-13.79128	32
20	1979/06/30 08:32:59.5	7.035	-82.411	4.7	5.5	4	64	-173	271	84	-26	SS_N	3.9752	79
21	1979/07/01 20:38:04.0	8.374	-82.846	27	6.2	146	32	-106	345	59	-80	N	0.0227	160
22	1979/07/02 06:18:08.9	8.368	-82.93	47.1	5.5	283	32	40	157	70	115	R_SS	-1.197301	58
23	1979/12/12 07:59:03.3	1.604	-79.364	24.8	8.1	30	16	118	181	76	83	R	-1.017031	93
24	1979/12/13 05:37:47.8	2.473	-79.435	28.8	6.3	45	19	107	207	72	84	R	-1.009143	119
25	1979/12/31 23:07:23.4	2.056	-79.016	34.3	6	31	21	129	170	74	76	R	-1.053589	84
26	1980/01/07 00:33:35.6	2.926	-78.746	27.3	5.3	30	15	114	185	77	84	R	-1.011206	97
27	1980/01/26 15:27:15.0	2.401	-79.494	23.7	5.6	12	22	76	207	69	95	R	-1.008281	115
28	1980/02/04 00:56:07.2	5.415	-82.744	18.4	5.9	1	77	173	93	83	13	SS	-15.455	30
29	1980/03/22 00:58:01.0	5.638	-82.689	11.7	5.4	2	77	179	92	89	13	SS	-19.6492	6
30	1980/05/02 01:47:06.9	7.217	-72.16	18.8	5.3	226	28	147	345	75	66	R_SS	-1.183467	82
31	1980/05/11 09:25:59.2	1.757	-80.419	31	5.5	330	56	172	65	83	34	SS_R	-3.067392	164
32	1980/07/30 06:56:16.7	5.2	-82.676	22.2	6.3	4	72	-171	272	81	-19	SS_N	6.8203	68
33	1980/08/18 15:07:52.6	-1.985	-80.003	56	5.9	19	27	36	256	75	112	R_SS	-1.155934	160
34	1980/09/03 22:12:39.1	3.236	-78.125	30.5	6.1	1	20	85	186	70	92	R	-1.000889	96
35	1980/10/28 23:20:00.0	7.202	-74.75	59.3	5	163	46	-132	36	58	-55	N_SS	0.3099	16
36	1980/11/26 17:35:39.1	8.023	-72.442	9.7	5.2	57	64	170	151	81	26	SS_R	-4.618319	79
37	1981/01/02 07:37:01.3	2.13	-79.187	15	5.9	26	42	-128	252	58	-61	N_SS	0.2034	56
38	1981/01/03 01:23:40.0	2.137	-79.287	18	5.4	253	24	-39	20	75	-109	N_SS	0.1097	25
39	1981/01/07 07:01:39.8	2.001	-79.265	26.8	5.5	32	33	-114	240	60	-75	N	0.0529	52
40	1981/04/27 22:53:15.5	6.966	-76.477	23	5.4	5	75	-11	98	79	-165	SS_N	8.9051	133

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
41	1981/05/06 21:36:06.8	-1.915	-80.911	11	6.4	339	17	81	168	73	93	R	-1.002096	78
42	1981/05/16 09:04:15.3	7.35	-77.253	27.1	5.3	236	22	94	51	68	88	R	-1.000683	142
43	1981/06/05 23:34:54.5	-3.932	-80.69	39.8	5.2	338	44	74	180	48	105	R	-1.038057	80
44	1981/06/27 21:54:14.6	-3.039	-80.295	52	5.3	298	30	-20	45	80	-119	N_SS	0.2953	50
45	1981/07/07 10:25:46.7	2.76	-79.8	17.5	5.3	16	43	-78	180	48	-101	N	0.0205	7
46	1981/08/19 14:29:43.5	-3.9	-80.937	42.8	5.1	93	38	84	280	53	94	R	-1.004159	8
47	1981/08/25 16:54:38.8	6.926	-76.601	4.1	5.5	183	76	7	92	83	166	SS	-13.79118	156
48	1981/08/25 17:29:07.2	7.026	-76.556	23	5.3	358	71	-9	91	82	-161	SS_N	7.1095	113
49	1981/08/27 13:52:40.8	6.92	-76.652	9.3	5.2	3	76	-14	96	76	-166	SS_R	-8.800599	50
50	1981/10/18 04:31:02.7	8.111	-72.5	39.1	5.9	251	43	173	347	85	47	R_SS	-1.845744	81
51	1982/01/17 14:52:13.7	5.608	-74.244	26.1	5.3	329	68	23	230	68	157	SS_R	-3.682176	100
52	1982/03/16 08:04:57.9	5.778	-78.256	31.9	5.3	289	38	-62	75	57	-110	N	0.0897	86
53	1982/04/11 12:21:29.9	-2.823	-78.594	15	5.1	39	26	56	256	68	106	R	-1.063932	160
54	1982/07/04 06:16:08.4	7.637	-72.156	15	5.3	52	69	169	146	80	21	SS_R	-6.24374	80
55	1982/08/01 20:38:16.8	2.579	-78.871	26.3	5.3	41	22	138	171	76	73	R	-1.08401	85
56	1982/08/14 03:10:55.8	6.882	-77.694	18.7	5.2	319	33	49	184	66	113	R_SS	-1.14636	85
57	1982/08/19 15:59:05.5	6.688	-82.669	15	6.8	86	53	0	176	90	-143	SS_N	1.7596	177
58	1982/10/29 15:33:40.0	-4.212	-80.585	42.5	5	357	30	89	178	60	91	R	-1.000076	88
59	1983/01/23 14:29:28.5	6.411	-77.53	13.4	5.5	358	39	-20	104	78	-127	N_SS	0.5303	113
60	1983/02/09 21:05:35.4	7.987	-82.774	27.9	5.4	358	52	-164	257	77	-39	SS_N	1.3441	61
61	1983/03/31 13:12:52.3	2.437	-76.661	30.3	5.6	26	76	175	117	85	14	SS	-15.22574	46
62	1983/04/03 02:50:00.7	8.717	-83.083	25	7.4	310	25	110	108	67	81	R	-1.021339	22
63	1983/04/07 19:29:14.9	7.981	-82.711	20	5.9	311	22	113	106	69	81	R	-1.021893	20
64	1983/04/07 20:46:41.7	8.009	-82.683	15	5.5	293	15	96	107	75	88	R	-1.000732	17
65	1983/05/05 07:33:46.3	5.352	-82.68	25	5.8	94	76	8	2	83	166	SS	-13.02713	64
66	1983/05/09 15:53:02.7	8.25	-82.937	40.1	6.2	332	31	142	96	71	64	R_SS	-1.197201	14
67	1983/05/19 19:07:18.6	0.178	-77.073	24.9	5.2	60	49	129	189	54	54	R_SS	-1.291292	122
68	1983/10/12 03:39:39.0	8.06	-82.673	29.7	6	296	24	92	114	66	89	R	-1.000202	24
69	1983/11/22 14:20:58.8	0.506	-79.784	35	6.7	33	24	133	167	72	73	R	-1.083362	83
70	1983/11/26 09:22:32.3	3.951	-82.606	30.1	5.6	174	83	173	265	83	8	SS	-33.9168	39
71	1983/11/26 20:18:23.5	7.374	-82.307	10.6	6.3	357	72	-177	266	87	-18	SS_N	9.2073	77
72	1984/01/17 16:19:05.4	-3.933	-81.416	38.6	5.5	303	45	78	139	47	101	R	-1.022091	42
73	1984/04/09 12:49:34.1	8.443	-82.909	28.9	5.2	312	25	115	104	68	79	R	-1.032951	19
74	1984/04/16 14:18:45.8	6.688	-82.393	10	5.7	357	57	-173	263	84	-33	SS_N	2.2861	74
75	1984/04/28 20:12:06.4	-1.811	-78.099	46.5	5.6	199	26	109	358	65	81	R	-1.020792	92
76	1984/05/13 23:53:29.5	-4.019	-80.848	35	5	108	28	81	298	62	95	R	-1.005423	26
77	1984/06/14 10:04:27.3	9.933	-69.841	5.5	5.3	340	65	-11	75	80	-155	SS_N	3.9170	95
78	1984/07/30 04:27:27.4	2.283	-79.019	28	5.1	35	33	121	179	62	71	R	-1.085406	98
79	1985/01/05 11:11:31.1	10.151	-80.087	48.1	6.1	301	48	128	72	54	56	R_SS	-1.26475	3
80	1985/04/10 20:15:42.4	1.639	-77.02	46.7	5.2	81	38	-76	244	53	-100	N	0.0196	70

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
81	1985/04/20 18:23:48.2	8.981	-77.42	32.2	6.3	75	26	20	327	82	115	R_SS	-1.204368	53
82	1985/06/10 03:23:31.8	3.013	-78.517	32.8	5.5	32	19	125	176	74	79	R	-1.036131	88
83	1985/06/26 20:28:24.6	6.072	-82.352	20	5.4	118	64	7	25	83	154	SS_R	-4.897917	102
84	1986/01/19 08:03:26.6	0.617	-79.897	54.7	5	31	22	116	184	70	80	R	-1.027715	97
85	1986/01/29 13:34:09.6	6.87	-76.659	15	5.7	273	82	-172	182	82	-9	SS	22.0589	141
86	1986/04/23 20:27:12.4	-3.924	-81	47.1	5.3	128	29	118	277	64	75	R	-1.054634	13
87	1986/07/18 17:22:41.6	10.743	-69.425	7.5	5.4	64	41	106	223	51	76	R	-1.033807	142
88	1986/08/07 22:32:50.9	7.482	-81.256	17.7	5.7	253	62	-27	356	67	-150	SS_N	1.7434	30
89	1986/08/12 04:07:17.0	5.893	-82.826	15	5.8	358	70	175	90	86	20	SS_R	-8.084992	12
90	1986/08/13 04:11:41.1	5.829	-82.415	4.3	5.7	122	73	10	29	81	163	SS_R	-8.844969	91
91	1986/08/13 15:27:24.9	7.654	-74.716	55.9	5.2	274	51	-18	16	76	-140	SS_N	1.2345	32
92	1987/01/04 17:52:36.6	5.853	-82.636	14.3	6.3	90	83	5	359	85	173	SS	-44.77052	54
93	1987/01/13 13:23:59.7	5.74	-79.033	12.3	6	0	72	170	94	80	18	SS_R	-8.145557	30
94	1987/01/13 19:30:10.9	5.593	-78.838	14.5	5.8	3	74	177	94	87	16	SS	-12.73765	14
95	1987/01/25 10:31:24.8	3.041	-79.299	15.8	5.7	19	32	-109	221	60	-79	N	0.0281	35
96	1987/03/06 01:54:50.7	0.039	-77.667	12.9	6.4	198	20	118	348	73	81	R	-1.026465	81
97	1987/03/06 04:10:41.9	0.084	-77.791	20.2	7.1	195	27	98	7	64	86	R	-1.004008	98
98	1987/03/06 08:14:48.5	0.109	-77.869	6	6	226	40	-166	125	81	-51	N_SS	0.6296	118
99	1987/03/10 22:20:31.3	6.013	-76.604	50.9	5	258	19	83	86	71	93	R	-1.001577	175
100	1987/03/12 11:02:28.3	-3.913	-81.494	39.5	5.1	347	25	135	119	72	72	R	-1.09806	35
101	1987/03/19 01:28:55.0	6.759	-76.431	22.9	5.4	38	17	106	201	74	85	R	-1.006537	113
102	1987/06/19 12:56:51.6	7.369	-82.187	3.3	5.3	0	71	176	91	87	19	SS_R	-9.062451	12
103	1987/06/22 19:23:32.0	7.096	-82.288	12.3	5.7	1	74	168	95	79	17	SS_R	-8.626678	39
104	1987/09/08 02:58:52.8	6.594	-82.503	21.9	6	100	67	6	8	85	157	SS_R	-6.175507	85
105	1987/09/22 13:43:39.7	-1.009	-78.031	4.3	6.3	218	42	147	334	68	53	R_SS	-1.45969	79
106	1987/09/22 16:21:38.5	-1.072	-78.086	47.8	6	197	42	129	330	59	61	R_SS	-1.215544	76
107	1987/11/11 15:04:52.5	6.769	-76.348	11.5	5.3	92	13	154	207	84	79	R	-1.042621	119
108	1988/03/11 03:44:56.7	9.112	-82.941	15.5	6	248	55	-9	343	82	-145	SS_N	1.9241	174
109	1988/04/12 15:26:21.2	-2.748	-77.577	18.8	5.2	346	37	54	208	60	114	R_SS	-1.143027	106
110	1988/07/12 09:55:54.3	9.838	-71.312	22.9	5.2	59	16	-47	194	78	-101	N	0.0361	16
111	1988/09/20 17:56:18.4	4.67	-77.386	40	5.8	14	18	104	179	73	85	R	-1.00562	91
112	1988/11/26 18:40:14.0	6.71	-77.474	11.8	5.4	316	29	-56	98	67	-107	N	0.0781	105
113	1988/12/09 20:29:30.4	-2.788	-77.636	36	5.4	2	11	29	243	85	100	R	-1.028648	153
114	1989/02/04 19:24:08.6	5.76	-82.661	15	6.3	93	76	10	0	80	166	SS	-11.50531	57
115	1989/02/12 20:03:16.3	2.747	-79.787	2.8	5.1	340	46	-116	195	50	-66	N_SS	0.1075	179
116	1989/04/30 08:22:53.1	11.029	-68.267	20	5.9	166	62	-168	70	79	-29	SS_N	2.8039	51
117	1989/05/04 00:22:06.2	11.045	-68.258	9.9	5.5	145	51	-174	51	85	-39	SS_N	1.4961	45
118	1989/06/15 19:32:45.7	6.879	-82.293	19.9	5.5	0	76	171	92	81	14	SS	-12.25999	33
119	1989/06/25 20:37:33.0	1.135	-79.584	15	6.3	27	25	120	174	69	77	R	-1.046739	89
120	1989/09/09 01:40:40.3	2.437	-79.744	14	5.7	1	29	-123	218	66	-73	N	0.0768	31

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
121	1989/10/09 10:03:19.4	-4.262	-77.674	34.7	5.4	338	82	-6	69	84	-172	SS	32.2396	106
122	1990/02/10 17:12:10.8	-3.187	-80.796	53.5	5.5	138	58	167	235	79	32	SS_R	-3.152506	162
123	1990/05/08 00:01:39.6	6.891	-82.589	10	6.4	265	68	8	172	83	158	SS_R	-6.37014	64
124	1990/08/11 02:59:54.9	-0.174	-78.487	15	5.3	323	45	53	190	55	122	R_SS	-1.221135	81
125	1990/08/25 11:43:23.9	5.719	-77.532	35.1	5.3	350	36	79	183	54	98	R	-1.012739	89
126	1990/08/25 11:47:35.9	5.76	-77.464	34	5.6	40	20	134	174	76	76	R	-1.059825	88
127	1990/08/30 18:33:00.5	6.168	-82.672	6.1	5.5	358	78	-169	266	79	-12	SS	11.8104	44
128	1990/09/02 04:26:49.7	-0.133	-80.23	14	6.2	22	27	115	174	65	78	R	-1.038219	89
129	1990/11/25 12:32:45.3	-2.673	-77.719	25.1	5.3	20	35	98	190	55	84	R	-1.006413	103
130	1990/12/17 11:00:19.6	6.61	-82.177	20.9	6.2	354	63	171	88	82	27	SS_R	-4.433882	13
131	1991/03/29 20:13:47.7	-3.987	-80.916	37.6	5.6	55	27	151	171	77	66	R_SS	-1.187174	87
132	1991/04/04 03:22:58.4	7.053	-78.123	33	6.1	316	28	110	113	64	80	R	-1.026465	28
133	1991/04/22 21:56:51.9	9.674	-83.074	13	7.6	103	25	58	318	69	104	R	-1.052803	43
134	1991/04/23 18:56:40.9	9.911	-83.228	15	5.1	246	7	-17	354	88	-97	N	0.0151	174
135	1991/04/30 02:16:34.0	5.887	-82.702	15	5.9	86	76	10	353	80	166	SS	-11.50531	50
136	1991/05/02 07:01:58.1	9.421	-77.185	34.8	5.9	173	75	-178	83	88	-15	SS	13.6792	76
137	1991/05/04 03:42:54.9	9.548	-82.441	6.2	6.1	138	21	105	302	70	84	R	-1.008678	34
138	1991/05/27 18:40:27.7	9.525	-82.629	37.4	5.7	151	9	108	312	81	87	R	-1.002342	43
139	1991/08/04 07:45:32.8	-0.892	-80.818	32.1	5.4	33	17	137	164	78	77	R	-1.047913	77
140	1991/08/17 06:18:33.7	9.989	-69.972	11.8	5.5	344	86	-3	74	87	-176	SS	130.7151	111
141	1991/11/19 22:28:50.8	4.553	-77.362	21	7.2	13	13	95	188	77	89	R	-1.000385	98
142	1991/12/10 23:19:57.6	4.68	-77.441	27.6	5.2	45	22	127	186	72	76	R	-1.053546	100
143	1991/12/21 22:02:10.8	8.23	-82.884	27.5	5.1	188	61	176	279	87	29	SS_R	-4.188248	16
144	1992/05/18 23:19:20.0	7.347	-82.336	18	6.3	93	79	10	1	80	169	SS	-15.27532	50
145	1992/06/26 11:32:30.6	6.106	-82.373	29.4	5.8	61	36	-94	246	54	-87	N	0.0018	64
146	1992/08/18 12:53:55.6	-2.956	-79.923	32	5.2	39	25	130	177	71	73	R	-1.079676	92
147	1992/09/08 05:41:42.2	3.97	-82.57	14	5.2	94	71	4	3	87	161	SS_R	-9.062427	82
148	1992/09/08 14:40:21.7	4.033	-82.545	10.7	5.6	90	79	-2	180	88	-169	SS	25.6080	10
149	1992/10/17 08:32:39.9	6.869	-76.73	14	6.6	262	45	135	28	60	55	R_SS	-1.333333	137
150	1992/10/18 15:11:59.3	7.095	-76.776	5	7.1	270	45	167	9	81	46	R_SS	-1.903667	108
151	1992/10/19 10:11:10.9	3.109	-82.929	10	5.6	243	39	86	68	51	93	R	-1.001931	156
152	1992/10/23 09:28:02.6	6.728	-76.984	3	5.5	217	29	34	97	74	115	R_SS	-1.192667	179
153	1992/12/26 14:57:38.6	-1.023	-78.034	12	5.8	200	46	166	300	80	45	R_SS	-1.949944	40
154	1993/01/10 22:58:19.7	5.477	-82.593	33.2	5.5	266	63	-17	3	75	-152	SS_N	2.6680	29
155	1993/01/11 22:22:59.0	5.355	-82.606	20	5.6	2	77	-170	269	80	-13	SS	11.6213	52
156	1993/07/22 04:57:06.9	6.381	-71.207	20	6	21	39	-92	204	51	-88	N	0.0007	23
157	1993/12/13 16:34:34.3	5.506	-82.674	15	5.6	359	75	179	89	89	15	SS	-14.86502	3
158	1994/05/31 17:41:55.8	7.393	-72.04	12	6	133	32	54	354	65	110	R_SS	-1.107442	75
159	1994/05/31 20:45:55.0	7.408	-71.969	18.2	5.4	137	45	54	2	55	120	R_SS	-1.208817	74
160	1994/06/03 11:25:09.8	3.46	-78.786	9	5.8	10	42	-123	231	56	-63	N_SS	0.1650	35

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
161	1994/06/06 20:47:39.8	2.91	-75.978	12	6.8	206	76	170	299	80	14	SS	-11.50542	62
162	1994/07/04 14:55:56.9	7.722	-82.274	23.2	5.5	87	60	6	354	85	150	SS_R	-3.87303	75
163	1994/09/13 10:01:34.8	7.105	-76.665	14	6	4	64	9	270	82	153	SS_R	-4.718326	164
164	1994/09/27 23:04:51.7	5.693	-79.17	16.3	6.1	7	69	-167	273	78	-21	SS_N	5.0203	65
165	1994/11/09 03:56:58.3	7.402	-71.956	8.3	5.4	178	42	113	329	52	71	R	-1.073372	70
166	1994/11/26 04:48:03.2	2.754	-79.524	14.3	5.2	357	37	-114	206	57	-73	N	0.0640	17
167	1995/01/19 15:05:03.6	5.046	-72.939	17	6.5	38	33	95	212	57	87	R	-1.002258	124
168	1995/01/20 13:59:20.2	5.166	-72.94	54.1	5.2	170	24	50	33	72	106	R	-1.073368	117
169	1995/01/22 10:41:27.7	5.114	-72.954	21.7	5.6	243	36	136	10	66	62	R_SS	-1.217692	113
170	1995/02/05 20:37:10.9	6.723	-82.687	12	6	352	82	174	83	84	8	SS	-33.24025	29
171	1995/02/11 22:45:33.2	12.602	-81.623	28.3	5.7	48	51	-43	169	58	-132	N_SS	0.4749	15
172	1995/02/28 21:12:09.0	6.848	-82.691	9	6	2	73	173	94	83	17	SS_R	-10.09445	25
173	1995/03/23 02:08:34.5	7.468	-76.626	2.7	5.4	92	74	-167	358	78	-17	SS_N	6.9991	144
174	1995/04/12 18:22:32.6	2.722	-78.317	49.3	5	193	50	51	65	53	127	R_SS	-1.302774	130
175	1995/04/13 15:00:28.4	5.459	-79.896	10.7	5.4	82	68	11	348	80	158	SS_R	-5.826472	55
176	1995/04/23 23:55:40.6	5.184	-72.493	43.2	5.2	68	52	133	191	55	48	R_SS	-1.406119	128
177	1995/10/03 01:51:24.1	-2.789	-77.823	24	7	234	39	120	18	57	68	R_SS	-1.109892	120
178	1995/10/03 12:45:00.1	-2.795	-77.815	17	6.4	243	45	157	349	74	47	R_SS	-1.7351	94
179	1995/10/04 08:38:08.5	-2.711	-77.802	15	5.3	262	65	-163	164	75	-26	SS_N	3.0604	136
180	1995/10/05 01:36:54.6	-2.724	-77.845	54.1	5.2	69	59	167	166	79	32	SS_R	-3.30639	93
181	1995/10/07 21:28:06.1	-2.826	-77.775	12	5.7	161	22	53	20	73	104	R	-1.053546	106
182	1995/10/08 10:27:39.0	-2.641	-77.867	39	5.4	240	80	-170	148	80	-10	SS	-16.83545	13
183	1995/10/10 17:29:23.3	1.119	-79.246	55.9	5.1	253	46	104	53	46	76	N	0.0312	63
184	1995/10/29 05:28:48.3	-2.743	-77.816	46.1	5	89	48	178	181	88	42	SS_R	-2.230106	92
185	1995/11/07 04:04:26.6	-2.412	-77.754	43.7	5.1	30	31	90	210	59	90	R	-1	120
186	1995/12/29 13:01:40.9	9.962	-70.122	10.1	5.7	88	70	-167	354	78	-21	SS_N	5.0203	146
187	1995/12/31 15:12:33.3	9.984	-70.058	35.4	5.4	257	74	-175	166	86	-16	SS	11.4267	152
188	1996/03/28 23:03:49.8	-1.032	-78.663	9	5.9	8	21	96	182	69	88	R	-1.001405	92
189	1996/04/27 08:40:41.8	2.346	-79.387	15	6.1	44	15	110	203	76	85	R	-1.007898	115
190	1996/05/13 04:53:47.7	7.211	-76.884	23.7	5.2	287	52	139	45	59	46	R_SS	-1.547247	162
191	1996/05/23 01:57:22.9	5.897	-77.538	23.8	5.7	349	8	82	176	82	91	R	-1.000375	87
192	1996/06/19 03:20:23.5	4.895	-82.48	23.7	5.4	274	70	-4	5	86	-160	SS_N	7.2456	16
193	1996/08/05 21:39:16.2	-1.942	-80.912	16	6.3	353	16	88	175	74	91	R	-1.000093	85
194	1996/08/20 17:19:56.7	5.324	-82.724	15	5.8	92	75	13	359	78	164	SS_R	-8.756416	50
195	1996/08/25 14:09:03.2	-1.128	-78.69	9.1	5.4	172	48	130	300	55	54	R_SS	-1.295643	53
196	1996/11/04 17:24:57.4	7.364	-77.38	14	6.3	188	43	42	64	63	124	R_SS	-1.345658	137
197	1996/12/16 01:46:38.3	-0.198	-80.7	20	5.5	28	18	123	174	75	80	R	-1.029152	86
198	1997/03/27 10:02:16.2	3.983	-82.51	15	5.2	90	54	12	353	80	143	SS_R	-2.675332	70
199	1997/04/01 15:11:49.0	7.751	-82.399	24.7	6.1	85	78	9	353	81	168	SS	-15.00548	48
200	1997/04/15 20:27:58.2	10.743	-69.497	7.7	5.2	109	65	163	206	75	26	SS_R	-4.018962	145

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
201	1997/05/19 02:25:49.6	7.489	-82.849	15	5.8	2	69	172	95	82	21	SS_R	-6.881848	23
202	1997/06/26 06:12:10.3	4.847	-82.638	15	5.8	2	76	175	93	85	14	SS	-15.22574	22
203	1997/06/30 18:56:27.4	-4.122	-80.841	44.5	5.8	0	22	110	159	70	82	R	-1.01669	71
204	1997/09/09 05:45:47.4	5.736	-77.498	20.8	5.1	338	28	40	211	73	112	R_SS	-1.148551	114
205	1997/10/05 00:54:57.9	2.578	-79.794	15	5.3	345	25	-140	218	74	-71	N_SS	0.1086	33
206	1998/05/11 22:08:42.0	4.695	-82.553	15	5.2	94	76	4	3	87	166	SS	-15.8458	78
207	1998/06/23 01:36:31.8	10.569	-76.353	28.1	5.7	267	82	0	357	90	-172	SS	49.8425	4
208	1998/07/01 14:57:15.6	-1.151	-80.884	39.3	5.1	333	27	58	188	68	105	R	-1.061433	92
209	1998/08/04 00:48:36.0	8.379	-82.77	24.5	5.2	325	32	94	140	58	87	R	-1.001368	52
210	1998/08/04 18:59:20.1	-0.59	-80.313	20	7.1	27	15	124	172	78	82	R	-1.021395	84
211	1998/10/01 20:44:06.7	9.643	-82.465	28.8	5.3	155	34	135	285	66	64	R_SS	-1.185323	25
212	1998/11/17 03:57:59.0	7.709	-82.781	21.6	5.7	355	61	-170	260	81	-29	SS_N	2.9407	64
213	1999/01/04 08:43:44.3	7.387	-77.975	35.4	5.4	91	78	-179	1	89	-12	SS	21.9787	176
214	1999/01/25 18:19:16.9	4.445	-75.659	17	6.1	8	65	-21	107	71	-153	SS_N	2.4452	140
215	1999/01/25 22:40:16.5	4.337	-75.648	25.7	5.5	17	67	-23	116	69	-155	SS_N	2.5199	154
216	1999/01/27 10:13:53.8	6.592	-82.682	10	5.7	354	79	178	84	88	11	SS	-26.60841	4
217	1999/03/11 16:56:34.7	2.814	-79.684	16.2	4.9	27	43	-61	170	53	-115	N_SS	0.1286	6
218	1999/03/30 09:59:08.0	10.758	-70.401	6.2	5.7	92	78	-172	0	82	-12	SS	15.1919	147
219	1999/03/31 05:54:42.1	5.886	-82.752	7	6.3	1	85	-176	270	86	-5	SS	79.4809	51
220	1999/06/03 14:17:32.4	7.005	-82.241	15	5.2	189	66	179	279	89	24	SS_R	-6.035382	11
221	1999/07/31 07:11:35.3	5.209	-82.562	28	5.5	3	71	179	94	89	19	SS_R	-9.410213	6
222	1999/12/02 01:33:00.4	10.804	-70.385	15	5.4	274	62	-180	184	90	-28	SS_N	3.5323	2
223	1999/12/28 12:46:58.3	5.631	-82.717	15	6.1	1	74	-177	270	87	-16	SS	11.7377	80
224	2000/01/17 12:20:05.2	6.721	-71.998	43.3	5.6	154	26	71	355	65	99	R	-1.020792	81
225	2000/02/27 16:10:41.8	7.878	-82.822	15	5.4	326	27	99	137	63	86	R	-1.005069	48
226	2000/03/19 12:23:40.9	5.593	-77.612	15	5.2	337	15	-89	156	75	-90	N	0.0000	156
227	2000/05/22 13:15:09.0	-4.089	-81.036	38.4	5.8	7	28	55	225	68	107	R	-1.078179	129
228	2000/05/23 16:36:46.1	2.147	-78.354	40.9	5.2	327	27	27	213	78	115	R_SS	-1.195638	117
229	2000/07/12 22:12:19.8	6.191	-77.714	10	5.2	319	34	-114	167	59	-75	N	0.0518	159
230	2000/07/31 01:29:45.2	7.323	-79.632	10	5.2	258	47	-2	350	89	-137	SS_N	1.1492	171
231	2000/08/13 06:28:02.7	12.093	-82.622	10	5.2	356	76	177	87	87	14	SS	-16.36516	8
232	2000/08/13 07:04:06.9	12.059	-82.857	10.7	5.4	353	68	-177	262	88	-22	SS_N	6.0733	77
233	2000/08/22 01:17:25.2	1.338	-82.288	15	5.1	8	59	-2	99	88	-148	SS_N	2.5500	102
234	2000/09/20 08:37:16.3	-1.972	-80.563	35	5.5	81	59	23	339	70	147	SS_R	-2.649437	42
235	2000/09/28 23:23:43.3	-0.28	-80.56	16	6.4	34	15	133	170	79	80	R	-1.032159	82
236	2000/10/08 20:12:32.3	0.359	-78.096	10	5.1	342	42	90	162	48	90	R_SS	-1	72
237	2000/11/08 06:59:58.9	7.091	-77.802	17	6.5	321	22	56	177	72	103	R	-1.045894	83
238	2000/12/12 05:26:45.9	5.786	-82.702	9.6	6.1	1	82	-178	270	88	-8	SS	47.6296	76
239	2000/12/16 09:12:20.4	7.037	-77.96	20.2	5.4	307	29	35	184	74	114	R_SS	-1.187245	88
240	2001/02/02 14:47:55.1	5.311	-82.702	15	5.3	358	56	169	94	81	34	SS_R	-2.961026	17

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
241	2001/06/28 15:48:34.1	11.429	-70.349	31.4	5.3	14	24	-6	109	88	-114	N_SS	0.1979	110
242	2001/06/29 03:11:28.3	-3.994	-80.852	39.4	5.3	0	18	92	178	72	89	R	-1.000116	88
243	2001/07/14 14:38:24.7	7.232	-79.849	15	5.3	260	84	4	170	86	174	SS	-63.53418	46
244	2001/08/25 02:02:02.5	7.604	-82.764	16	6	351	76	-179	261	89	-14	SS	16.0031	77
245	2001/09/08 22:45:09.9	8.35	-74.827	24.6	5.1	310	75	2	220	88	165	SS	-14.67904	122
246	2001/11/09 00:47:55.0	9.705	-82.249	10	6	320	32	126	100	64	70	R_SS	-1.107443	18
247	2001/12/21 20:51:52.5	8.13	-70.922	10	5.6	230	60	164	328	76	31	SS_R	-3.257514	80
248	2002/02/03 20:59:29.3	9.295	-82.665	25	5	313	26	94	129	64	88	R	-1.000936	39
249	2002/03/16 21:52:30.3	9.009	-78.927	15	5.2	65	46	-16	166	79	-135	N_SS	0.9297	177
250	2002/04/26 01:36:25.6	6.588	-73.583	24.9	5.1	207	38	136	334	65	61	R_SS	-1.243988	78
251	2002/06/07 00:05:48.2	8.732	-77.52	57.1	5.6	181	65	177	272	88	25	SS_R	-5.529239	8
252	2002/06/25 04:06:46.1	4.025	-82.568	15	5.3	274	82	2	184	88	172	SS	-48.62862	80
253	2002/07/02 16:24:29.1	4.953	-77.413	15	5.2	226	11	-102	59	80	-88	N	0.0012	59
254	2002/07/31 00:16:44.6	7.946	-82.794	26.6	6.5	260	73	-1	350	89	-163	SS	10.6603	173
255	2002/07/31 04:45:14.3	8.049	-82.727	25	5.2	261	45	28	150	71	131	R_SS	-1.638798	44
256	2002/08/03 02:39:01.8	8.235	-82.878	16	5.8	113	77	10	21	81	167	SS	-12.62116	75
257	2002/08/07 23:59:14.5	7.828	-82.873	17.2	5.9	351	63	-168	256	79	-27	SS_N	3.2551	55
258	2002/08/08 13:39:58.3	4.964	-77.794	22.3	5.7	12	45	-140	251	63	-52	N_SS	0.4304	51
259	2002/11/19 21:08:50.5	7.295	-82.405	10	5.1	107	58	8	13	83	148	SS_R	-3.392756	92
260	2002/11/21 02:53:15.0	12.331	-82.259	27	5.7	173	64	-155	71	67	-28	SS_N	1.9462	35
261	2002/11/23 23:56:43.0	3.229	-74.474	26.3	5.1	195	48	159	299	75	44	R_SS	-1.928037	45
262	2002/12/21 00:46:07.6	3.648	-78.98	10	5.2	36	40	-70	191	53	-106	N	0.0509	21
263	2003/01/08 14:29:10.3	5.997	-77.565	10	5.7	299	76	172	31	82	14	SS	-13.02725	149
264	2003/02/01 13:47:46.8	7.471	-81.846	23.5	5.5	293	78	1	202	89	168	SS	-22.97836	108
265	2003/04/11 06:12:54.6	6.993	-82.36	20	6.1	6	82	177	97	87	8	SS	-45.34027	27
266	2003/05/23 11:05:11.9	5.595	-82.648	15	5.9	91	73	9	358	81	163	SS_R	-9.27108	63
267	2003/08/13 08:29:27.3	9.373	-79.871	41.7	5.3	136	61	156	238	70	31	SS_R	-2.765551	179
268	2003/08/22 05:29:13.1	3.084	-77.87	31.4	5	253	45	-73	50	47	-106	N	0.0424	61
269	2003/09/04 21:13:36.4	7.674	-82.301	10	5.1	110	60	6	17	85	150	SS_R	-3.87303	98
270	2003/09/04 23:40:11.8	7.813	-82.205	10	5.7	283	75	-11	15	80	-165	SS_N	9.5128	48
271	2003/09/13 18:33:13.3	-1.077	-78.337	10	5.3	233	70	-163	137	74	-21	SS_N	4.1375	101
272	2003/11/05 00:58:51.1	4.902	-77.701	28	5.9	15	38	-137	248	65	-60	N_SS	0.2584	54
273	2003/12/25 07:11:11.6	8.348	-82.835	29.3	6.5	12	85	176	103	86	5	SS	-80.48093	51
274	2004/01/07 10:42:38.7	8.307	-82.73	35	5.5	36	59	177	128	87	31	SS_R	-3.741431	42
275	2004/01/12 14:14:30.1	5.625	-79.131	15	5.3	98	84	3	7	87	174	SS	-73.33629	71
276	2004/02/04 11:59:47.7	8.4	-82.899	32.2	6.1	88	72	-8	180	82	-162	SS_N	7.8486	23
277	2004/02/16 10:04:40.0	6.0724	-82.4941	0	5.4	357	78	171	89	81	12	SS	-15.00565	34
278	2004/02/20 11:15:59.8	10.746	-73.845	39.7	4.8	120	51	133	244	56	50	R_SS	-1.390652	180
279	2004/03/28 08:41:14.4	-1.085	-78.364	5	5.2	193	50	135	316	57	50	R_SS	-1.415252	70
280	2004/04/15 19:06:31.1	-1.014	-78.437	5	4.9	198	41	128	332	59	62	R_SS	-1.194948	77



**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
281	2004/06/01 15:52:39.3	0.749	-79.79	23.6	5.3	33	28	133	167	70	70	R_SS	-1.114224	84
282	2004/06/10 15:03:40.3	9.893	-82.818	22	5	143	46	112	292	49	69	R	-1.0783	37
283	2004/06/20 01:37:35.6	5.317	-82.576	10	5.8	359	80	179	89	89	10	SS	-32.84132	5
284	2004/07/04 17:07:15.9	4.843	-82.627	10	5.3	358	81	174	88	84	9	SS	-28.46495	32
285	2004/08/11 23:02:24.6	-3.103	-80.825	42.4	5.2	124	57	-36	236	60	-141	N_SS	0.8280	88
286	2004/08/18 07:06:52.4	2.221	-76.623	22.9	5.1	69	79	8	338	82	169	SS	-18.15769	33
287	2004/10/05 04:02:29.5	5.468	-82.732	10	5.4	359	81	177	90	87	9	SS	-36.84037	18
288	2004/11/15 09:06:56.6	4.707	-77.471	15	7.2	21	11	114	177	79	85	R	-1.00606	87
289	2004/11/24 16:19:50.8	-0.886	-80.556	25	5.1	10	23	95	185	67	88	R	-1.001161	95
290	2004/12/19 08:23:48.2	9.354	-78.835	58.7	5.3	21	36	-63	169	58	-108	N	0.0737	179
291	2005/01/15 11:40:37.2	-3.681	-80.886	29.9	5	12	28	102	179	62	84	R	-1.009619	91
292	2005/01/15 14:02:14.7	-3.735	-80.936	33.5	4.9	344	33	74	182	58	100	R	-1.023056	88
293	2005/01/21 04:30:29.0	-1.203	-80.945	15	5.4	356	18	83	183	72	92	R	-1.00142	93
294	2005/01/21 13:45:14.1	-1.118	-80.862	20	6	3	18	96	177	72	88	R	-1.001045	87
295	2005/01/21 16:47:00.6	-1.139	-81.029	20	5	345	26	84	171	64	93	R	-1.002104	80
296	2005/01/22 01:12:14.5	-1.202	-80.904	18.5	5.1	14	15	111	172	76	84	R	-1.008678	84
297	2005/01/23 10:06:07.7	-1.286	-80.902	17.2	5	306	58	3	215	87	148	SS_R	-3.536252	120
298	2005/01/24 06:11:52.3	-2.402	-80.786	26.7	5.6	347	76	8	255	82	166	SS	-13.02713	137
299	2005/01/24 23:23:26.1	-1.385	-80.872	16	6.1	6	15	100	177	75	87	R	-1.002024	86
300	2005/01/24 23:26:50.3	-1.394	-80.943	31.4	5.8	8	31	100	177	60	84	R	-1.008063	89
301	2005/01/24 23:59:32.1	-1.474	-80.984	26	5.1	335	20	69	177	72	97	R	-1.015252	85
302	2005/01/28 09:26:18.8	-1.182	-81.341	10	6	11	20	98	182	70	87	R	-1.002271	93
303	2005/01/28 15:46:45.3	-1.088	-81.163	9.4	5.9	10	19	100	179	71	87	R	-1.003206	91
304	2005/01/30 07:06:49.2	-0.763	-81.093	20.1	5.7	32	19	123	178	74	80	R	-1.032462	90
305	2005/02/10 02:32:14.6	5.189	-82.657	15.3	5.7	0	78	175	91	85	12	SS	-19.80377	23
306	2005/02/17 20:42:57.6	-1.775	-81.173	14	5.5	3	21	93	179	69	89	R	-1.000352	90
307	2005/03/27 08:03:36.2	-1.222	-80.848	19.8	5.1	340	26	65	187	67	102	R	-1.035542	93
308	2005/05/05 19:12:20.2	6.046	-82.704	18	6.5	8	85	179	98	89	5	SS	-126.6043	19
309	2005/05/05 23:41:53.2	5.077	-82.444	15	5.7	123	59	-20	223	73	-147	SS_N	1.8030	67
310	2005/05/13 19:17:59.6	-3.852	-80.649	41.3	5	7	43	112	158	51	71	R	-1.069829	81
311	2005/05/21 05:11:35.4	-3.278	-80.945	38.4	6.3	289	71	18	193	73	160	SS_R	-5.22558	64
312	2005/05/29 17:52:17.7	-3.263	-80.973	33.7	5	196	69	179	286	89	21	SS_R	-7.770388	19
313	2005/06/30 21:26:36.0	8.428	-82.872	41.7	5.9	334	38	111	128	55	74	R	-1.05117	47
314	2005/07/15 21:02:15.7	8.543	-71.433	5	4.8	239	46	-127	106	55	-58	N_SS	0.2322	86
315	2005/08/03 21:20:50.5	2.612	-79.433	16.1	4.9	34	35	-64	183	59	-107	N	0.0670	12
316	2005/08/27 18:38:20.9	6.769	-82.483	10	6.1	5	82	178	95	88	8	SS	-48.62905	19
317	2005/09/17 16:51:58.9	3.971	-82.642	15.9	5.2	89	71	-2	180	88	-161	SS_N	8.3384	6
318	2005/09/18 01:24:52.3	3.923	-82.634	10	5.4	91	78	4	0	86	168	SS	-20.88394	72
319	2005/09/18 06:14:01.2	3.917	-82.69	10	5.5	93	78	-2	183	88	-168	SS	21.5257	12
320	2005/10/03 14:06:20.0	9.462	-77.893	32.5	5.2	24	34	-50	158	65	-113	N_SS	0.1434	168

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
321	2005/11/05 09:10:57.4	-2.14	-80.595	35	5.1	112	25	-123	327	69	-76	N	0.0538	142
322	2005/12/20 16:34:50.6	-1.999	-81.004	14.6	5.3	355	10	81	183	80	92	R	-1.000739	94
323	2005/12/21 14:32:39.3	6.666	-82.754	10	5.8	352	72	180	82	90	18	SS_R	-10.44194	175
324	2005/12/30 18:26:43.9	7.546	-82.266	10	6.1	0	78	178	91	88	12	SS	-22.52604	10
325	2006/01/06 03:39:58.5	6.61	-82.397	10	6	4	76	-179	274	89	-14	SS	16.0031	90
326	2006/01/23 20:50:45.0	6.861	-77.776	23.4	6.2	316	14	53	174	79	98	R	-1.021656	82
327	2006/01/24 02:15:44.8	6.834	-77.68	25	5.4	307	29	50	170	68	110	R_SS	-1.107558	73
328	2006/01/29 17:49:14.2	6.769	-77.73	15.6	5.2	313	23	58	167	71	103	R	-1.044792	73
329	2006/05/01 07:47:59.9	8.078	-82.917	15	5.9	326	39	121	108	57	67	R_SS	-1.117389	31
330	2006/05/01 09:13:32.0	8.038	-82.923	10	5.5	317	33	80	149	58	96	R	-1.009025	55
331	2006/05/02 02:50:59.0	8.047	-82.935	24.8	5.2	317	28	78	151	62	96	R	-1.009619	58
332	2006/05/02 06:40:52.0	8.036	-82.928	23.6	5.3	314	34	71	156	58	102	R	-1.03428	60
333	2006/05/26 11:30:56.7	5.264	-82.599	18.1	5.2	0	72	177	91	87	18	SS_R	-10.20725	10
334	2006/06/09 04:21:01.2	6.2729	-82.5751	10	4.7	88	82	7	357	84	172	SS	-29.46851	47
335	2006/06/26 19:37:49.8	-2.875	-79.722	15	4.9	320	79	-10	52	80	-169	SS	14.2753	94
336	2006/08/04 13:41:39.8	9.973	-70.687	15.7	5.2	85	74	179	175	89	16	SS	-13.11339	89
337	2006/08/12 12:07:02.3	5.107	-82.596	20.8	5.1	1	82	175	92	85	8	SS	-37.28776	33
338	2006/09/03 10:23:30.6	7.406	-78.191	10	5.2	312	80	1	222	89	170	SS	-32.84119	126
339	2006/09/20 21:25:23.0	5.467	-82.652	23.7	4.8	92	76	-1	182	89	-166	SS	16.0027	6
340	2006/09/30 22:36:40.0	6.3505	-82.6889	10	4.9	83	84	0	353	90	174	SS	-89.06475	74
341	2006/10/14 17:55:15.8	7.545	-78.15	15	4.8	133	85	-2	223	88	-175	SS	112.5675	65
342	2006/10/18 21:15:49.3	4.862	-82.686	24.7	5.7	91	81	8	359	82	171	SS	-23.05852	49
343	2006/11/17 18:28:47.3	7.161	-79.69	19.2	5.4	258	70	-10	351	80	-160	SS_N	5.9635	17
344	2006/12/30 14:33:10.0	5.526	-82.602	19.7	5.5	1	79	173	93	83	11	SS	-19.71614	34
345	2007/02/18 21:37:44.8	6.085	-82.784	17.7	5.6	359	78	-176	269	87	-12	SS	20.8112	75
346	2007/03/06 13:05:12.1	2.088	-76.542	15	5.2	102	47	1	11	89	137	SS_R	-2.149219	101
347	2007/03/17 22:43:09.6	4.531	-78.549	13.1	6	55	37	-67	206	56	-107	N	0.0624	36
348	2007/03/18 02:11:05.5	4.583	-78.515	15	6.2	38	36	-69	193	57	-104	N	0.0429	21
349	2007/03/19 08:02:19.4	6.0601	-82.5798	7.3	5	1	81	-180	271	90	-9	SS	39.3732	85
350	2007/03/29 16:19:46.1	5.035	-82.61	23.8	5	4	85	-176	274	86	-5	SS	79.4809	55
351	2007/04/22 11:57:41.2	-3.773	-81.308	42.5	5.4	173	65	159	272	71	26	SS_R	-3.519934	35
352	2007/04/24 08:53:34.0	5.621	-75.895	50.6	5.1	154	23	-132	18	73	-75	N	0.0653	14
353	2007/06/09 18:33:46.2	3.351	-83.015	21	4.8	90	82	-7	180	83	-172	SS	28.4685	41
354	2007/06/20 19:04:07.0	7.117	-72.221	24.3	5.2	237	42	155	346	74	51	R_SS	-1.581695	89
355	2007/07/16 22:58:23.4	7.16	-72.177	30.6	5.2	227	29	108	26	62	80	R	-1.02296	121
356	2007/07/27 00:22:57.3	4.753	-82.577	21.9	5.3	182	87	177	272	87	3	SS	-182.7902	47
357	2007/09/10 01:49:14.2	2.959	-77.947	29.3	6.7	54	23	-95	239	67	-88	N	0.0010	58
358	2007/09/22 11:44:39.3	5.764	-77.445	20.8	5	8	20	90	188	70	90	R	-1	98
359	2007/10/13 03:58:22.9	4.914	-82.605	20.1	5.4	2	80	171	94	81	10	SS	-18.55706	44
360	2007/12/08 10:11:29.1	7.626	-82.883	22.4	4.9	171	84	175	261	85	6	SS	-54.23131	31

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
361	2007/12/10 18:19:07.4	0.585	-79.994	27.6	5.1	354	28	77	188	63	97	R	-1.011279	96
362	2007/12/21 05:13:56.9	5.7677	-82.7462	0.7	5	0	82	175	91	85	8	SS	-37.28776	32
363	2008/01/24 04:12:14.2	6.988	-82.29	18.2	5.9	5	80	175	96	85	10	SS	-26.65165	32
364	2008/01/26 17:59:50.9	-2.913	-80.495	42.7	5.2	149	68	-6	241	84	-158	SS_N	5.6789	76
365	2008/01/30 12:44:54.6	6.123	-79.595	13.4	4.9	63	32	-109	265	60	-79	N	0.0281	79
366	2008/02/10 07:36:05.8	5.598	-78.004	23.7	5	100	72	-12	194	79	-161	SS_N	6.2179	43
367	2008/02/23 03:23:06.6	4.014	-78.69	15	5.1	31	38	-98	221	52	-84	N	0.0068	37
368	2008/02/25 07:59:50.9	10.147	-70.942	15.2	5	261	60	160	1	73	32	SS_R	-2.960911	117
369	2008/05/24 19:20:42.5	4.374	-73.708	14.7	5.9	196	82	-179	106	89	-8	SS	49.8444	99
370	2008/05/25 23:15:57.7	4.788	-82.689	23	5.1	274	81	-1	4	89	-171	SS	39.3720	10
371	2008/05/26 15:01:33.6	8.401	-82.978	15	5.6	302	42	82	132	48	97	R	-1.008748	38
372	2008/05/26 15:38:01.5	8.471	-82.92	15	5.1	106	31	82	296	59	95	R	-1.005164	23
373	2008/05/26 16:01:10.8	8.499	-82.9	18.5	4.9	133	34	126	272	63	68	R_SS	-1.121119	12
374	2008/05/30 05:35:41.2	8.372	-82.919	15	5.1	114	43	70	320	50	108	R	-1.057539	39
375	2008/06/17 17:42:09.7	5.074	-82.606	20	5.9	4	83	178	94	88	7	SS	-62.29634	20
376	2008/07/18 05:41:55.5	-2.042	-80.406	48.2	5	147	33	97	319	58	86	R	-1.004425	51
377	2008/08/14 22:55:47.2	7.325	-82.703	21.6	5.5	263	87	2	173	88	177	SS	-252.9089	49
378	2008/08/21 22:51:42.2	5.195	-82.681	20	5.2	3	80	176	94	86	10	SS	-28.67523	25
379	2008/08/22 11:04:56.5	8.234	-82.832	27.5	5	120	44	73	323	49	106	R	-1.043023	42
380	2008/10/22 09:52:17.3	6.7988	-82.3808	10	5	4	89	-179	274	89	-1	SS	-1641.767	139
381	2008/11/05 15:33:02.4	5.946	-82.371	17.4	5.1	185	85	-179	95	89	-5	SS	125.6071	84
382	2008/11/19 06:11:20.8	8.291	-82.951	40	6.3	16	66	-156	275	68	-26	SS_N	2.2730	57
383	2009/02/21 22:47:33.5	-2.75	-78.228	24.8	5	99	69	-171	6	82	-21	SS_N	5.8819	166
384	2009/03/11 17:24:36.6	8.581	-83.185	24.5	5.9	291	25	86	115	65	92	R	-1.00087	25
385	2009/03/11 21:03:59.0	8.551	-83.213	17.7	5.9	150	44	115	297	51	68	R	-1.094315	41
386	2009/03/12 23:23:34.8	5.749	-82.646	23.4	6.3	2	85	180	92	90	5	SS	-126.6043	13
387	2009/03/13 16:54:31.3	8.549	-83.116	23.5	4.9	307	46	113	96	48	68	R	-1.085776	21
388	2009/03/13 17:33:12.6	8.586	-83.157	28.1	5.1	171	32	134	303	68	67	R_SS	-1.156747	42
389	2009/03/14 14:29:11.0	7.82	-82.739	23.1	4.9	266	44	45	140	60	124	R_SS	-1.317999	32
390	2009/03/28 12:49:06.7	7.56	-82.226	10	4.8	6	74	-179	276	89	-16	SS	12.1135	93
391	2009/04/18 17:04:56.0	3.827	-82.527	14	4.8	181	85	-175	90	85	-5	SS	-66.0731	135
392	2009/05/04 09:10:20.9	10.174	-66.983	14.8	5.4	62	85	-176	331	86	-5	SS	79.4809	112
393	2009/05/08 08:33:53.1	8.774	-82.876	29.8	5	93	63	20	354	73	151	SS_R	-3.344739	54
394	2009/07/04 06:49:35.5	9.662	-78.949	49.3	6	237	50	21	133	74	138	SS_R	-2.046908	26
395	2009/07/06 04:10:38.3	9.586	-78.911	51.7	5.3	340	75	-174	248	84	-15	SS	11.9564	47
396	2009/07/19 08:35:45.4	-1.877	-80.461	28.4	5.4	254	44	153	4	72	49	R_SS	-1.620989	109
397	2009/09/06 05:02:45.0	8.612	-82.881	49	5.1	332	32	-127	194	65	-70	N_SS	0.1063	5
398	2009/09/12 20:06:24.7	10.725	-67.973	10	6.4	184	73	8	91	83	163	SS_R	-9.690312	158
399	2009/09/21 21:58:37.1	5.214	-82.495	21	5	273	85	-2	3	88	-175	SS	112.5675	25
400	2009/09/27 11:18:35.3	6.472	-82.616	10	5	262	81	-6	353	84	-171	SS	27.4645	26

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
401	2009/10/09 18:11:39.9	-1.049	-77.87	17.5	5.2	204	46	105	2	47	75	N	0.0359	13
402	2009/10/22 00:51:39.2	6.73	-82.597	22.5	5.9	354	82	179	84	89	8	SS	-50.84359	1
403	2009/10/22 01:50:40.1	6.934	-82.499	22.1	5.1	172	82	174	262	84	8	SS	-33.24025	29
404	2009/11/15 17:36:48.9	3.168	-82.929	18.9	5.2	272	88	1	182	89	178	SS	-656.8739	65
405	2009/11/20 17:22:28.6	10.53	-82.969	33.5	5.2	72	75	-11	165	80	-164	SS_N	8.6302	16
406	2009/11/27 08:15:53.4	10.394	-69.766	5	5.4	184	74	-1	274	89	-164	SS	12.1133	97
407	2010/01/23 09:08:55.5	8.387	-83.026	15	5.3	299	39	98	109	52	84	R	-1.00773	23
408	2010/01/23 14:36:25.3	8.4417	-83.0463	13	4.8	104	42	79	299	49	100	R	-1.016571	22
409	2010/01/23 14:43:34.6	8.331	-83.071	15.3	5	93	46	60	313	51	118	R_SS	-1.148582	25
410	2010/01/23 20:22:23.1	8.287	-83.003	15	5	287	38	96	100	52	85	R	-1.004159	12
411	2010/02/07 09:49:14.2	5.765	-82.296	19.8	5.1	93	83	0	183	90	-173	SS	64.9944	11
412	2010/02/28 10:26:51.8	-1.162	-80.392	54.3	5.2	14	35	101	180	56	82	R	-1.012123	95
413	2010/03/01 08:43:33.5	5.3209	-82.7078	15	5	180	87	-178	90	88	-3	SS	251.9241	56
414	2010/03/22 06:57:20.7	7.2883	-82.201	10	4.8	184	80	174	275	85	11	SS	-24.53939	35
415	2010/03/26 01:56:37.4	-1.288	-78.339	15	5	215	74	-180	125	90	-16	SS	12.1135	122
416	2010/06/04 22:01:45.1	6.6708	-82.3396	10	5	194	81	175	284	85	9	SS	-31.36538	43
417	2010/06/05 01:20:00.1	5.022	-72.431	18.1	4.8	227	41	97	38	49	84	R	-1.006434	132
418	2010/07/29 19:34:46.6	3.907	-75.097	33.1	5.1	37	54	138	155	57	45	R_SS	-1.566077	94
419	2010/08/21 20:20:15.0	6.015	-77.982	19	5.4	149	58	-24	252	70	-146	SS_N	1.5439	99
420	2010/09/11 18:55:25.7	-4.347	-80.591	50.1	5.2	13	26	113	168	66	79	R	-1.030226	82
421	2010/10/14 10:47:19.6	5.594	-82.606	18.9	5	0	84	180	90	90	6	SS	-89.06522	9
422	2010/11/10 23:48:39.0	6.144	-82.622	10	5.7	360	85	-178	270	88	-5	SS	112.5729	68
423	2010/11/25 04:19:41.4	0.381	-79.974	26.1	5.4	54	23	138	184	75	72	R	-1.092078	98
424	2011/03/02 18:50:49.4	8.591	-76.917	33.6	5.8	191	36	137	318	66	62	R_SS	-1.226687	60
425	2011/04/10 21:33:10.2	4.017	-82.644	17.4	5	182	84	-178	91	88	-6	SS	81.4340	73
426	2011/04/12 07:44:02.4	5.304	-82.519	10	5.2	276	85	0	6	90	-175	SS	125.6004	17
427	2011/04/13 11:03:45.2	4.883	-82.588	10	5	2	85	177	92	87	5	SS	-96.9501	33
428	2011/04/30 08:19:16.3	6.837	-82.395	10	6.2	5	83	-180	275	90	-7	SS	64.9970	87
429	2011/05/01 09:22:48.0	6.8917	-82.4729	10	4.9	133	87	-2	223	88	-177	SS	251.9051	77
430	2011/05/12 02:36:01.5	-1.871	-81.719	22.7	5	82	75	-4	172	86	-165	SS	12.9804	7
431	2011/06/08 06:35:20.7	5.102	-82.515	10	5.2	1	85	178	91	88	5	SS	-113.5714	23
432	2011/06/19 16:34:43.0	7.332	-82.253	10	5.1	6	87	-179	276	89	-3	SS	327.6428	78
433	2011/06/20 11:25:52.6	4.7073	-82.7099	35	5	95	76	0	185	90	-166	SS	16.0027	9
434	2011/07/20 15:51:30.1	7.144	-82.333	10	5.3	6	77	-176	275	86	-13	SS	17.1085	78
435	2011/07/23 12:53:03.0	3.812	-82.631	10	5	88	79	0	358	90	169	SS	-27.2464	83
436	2011/08/04 05:12:36.8	8.398	-82.854	44.1	5	119	86	0	209	90	-176	SS	192.4441	43
437	2011/08/17 08:02:07.8	5.651	-77.638	21	5	343	25	90	164	65	90	R	-1	73
438	2011/09/05 11:21:36.9	6.506	-82.468	10	5.8	6	85	180	96	90	5	SS	-126.6043	17
439	2011/09/05 16:11:16.9	6.635	-82.319	10	5.1	9	79	180	99	90	11	SS	-27.24649	14
440	2011/09/13 04:38:48.7	5.667	-77.592	15	5.2	13	14	100	182	76	88	R	-1.001768	93

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
441	2011/09/13 04:49:35.0	5.654	-77.564	12.8	5.5	360	18	89	181	72	90	R	-1.000029	91
442	2011/11/15 01:49:00.2	5.696	-82.405	14.1	5	177	87	-180	87	90	-3	SS	327.6428	69
443	2011/11/17 01:57:05.7	-1.741	-81.626	15.5	6	87	81	1	356	89	171	SS	-40.37255	81
444	2011/12/02 06:57:47.7	8.487	-82.813	42	5.2	122	68	23	23	69	156	SS_R	-3.682176	73
445	2011/12/13 07:28:11.1	4.791	-82.606	10	5.5	92	84	2	2	88	174	SS	-82.43157	74
446	2011/12/18 20:14:08.1	6.1329	-82.6224	14	4.9	87	82	2	356	88	172	SS	-48.62862	73
447	2011/12/21 16:36:01.0	7.417	-82.226	10	4.8	93	80	1	3	89	170	SS	-32.84119	87
448	2012/01/10 18:07:13.0	-0.884	-80.417	36.8	5.1	16	30	99	186	61	85	R	-1.006156	98
449	2012/01/19 10:18:02.8	-3.039	-82.773	10	4.9	73	68	-9	167	81	-158	SS_N	5.1970	8
450	2012/01/25 14:55:52.1	6.88	-82.7618	10	4.9	264	83	-4	354	86	-173	SS	49.8994	24
451	2012/02/08 10:54:42.3	0.698	-79.328	55	5.2	314	28	139	81	72	68	R_SS	-1.143561	179
452	2012/02/14 21:46:24.4	5.478	-82.563	15	4.8	118	78	8	26	82	167	SS	-16.19165	84
453	2012/03/12 05:03:39.9	5.474	-82.538	15	5	91	81	7	0	83	171	SS	-25.66646	53
454	2012/04/18 01:43:21.9	7.6005	-80.8412	11.1	4.8	193	82	-178	103	88	-8	SS	47.6296	89
455	2012/06/04 00:45:15.3	5.378	-82.669	10	6.3	5	84	-179	275	89	-6	SS	88.0671	86
456	2012/06/04 03:15:24.8	5.531	-82.604	10	6.3	122	79	2	32	88	169	SS	-26.60829	112
457	2012/06/08 04:19:03.4	-1.764	-81.65	18.4	5	95	64	0	4	90	154	SS_R	-5.197071	93
458	2012/07/30 05:19:46.9	-2.017	-80.895	24.1	5	51	61	-177	319	87	-29	SS_N	3.2170	134
459	2012/08/24 21:14:16.0	4.9867	-82.7517	35	4.7	1	78	-177	270	87	-12	SS	20.8112	76
460	2012/09/11 19:24:57.9	6.041	-82.549	14	5	89	36	-88	267	54	-91	N	0.0002	88
461	2012/11/13 01:56:46.8	-1.768	-81.677	15	5.1	360	37	-108	202	55	-77	N	0.0351	14
462	2012/11/27 13:37:11.0	5.71	-82.65	15	4.8	272	78	-7	3	83	-168	SS	16.4099	33
463	2013/03/14 03:45:46.6	7.583	-82.712	28.4	5.2	172	71	174	264	84	19	SS_R	-8.638315	10
464	2013/05/16 16:29:17.6	12.036	-73.46	33.4	4.8	259	26	-89	78	64	-91	N	0.0002	78
465	2013/05/18 08:00:43.3	6.605	-82.397	10	5.1	6	82	-174	275	84	-8	SS	32.2403	58
466	2013/05/21 15:05:23.3	5.9179	-82.5415	14	5	6	80	-178	276	88	-10	SS	30.9132	85
467	2013/05/25 14:13:11.0	4.873	-82.572	10	5.2	91	86	-2	181	88	-176	SS	163.5164	28
468	2013/05/27 09:41:14.6	9.308	-82.759	19.7	5.8	125	25	92	303	65	89	R	-1.000218	33
469	2013/06/14 17:56:45.3	5.24	-82.609	18.8	5.1	2	80	175	93	86	10	SS	-26.65165	29
470	2013/06/22 12:05:00.4	7.479	-82.12	10	5.3	296	45	59	156	52	117	R_SS	-1.152912	49
471	2013/08/06 02:50:10.0	7.185	-77.293	31.3	4.9	198	59	31	91	64	145	SS_R	-2.173132	149
472	2013/08/13 15:43:15.2	5.677	-78.179	10	6.6	119	61	-25	222	68	-148	SS_N	1.6196	73
473	2013/08/25 23:35:55.0	7.644	-74.999	24.7	4.9	247	65	-154	145	67	-27	SS_N	2.0552	108
474	2013/10/24 14:44:33.6	4.977	-78.102	22.5	5	82	71	-9	175	82	-160	SS_N	6.4581	16
475	2013/10/27 15:28:20.1	8.26	-82.584	47.5	5.1	32	45	-31	145	69	-131	N_SS	0.6003	162
476	2013/11/29 09:18:56.2	4.883	-82.664	21.5	5.4	3	83	174	93	84	7	SS	-39.03757	44
477	2013/12/14 01:41:16.5	-2.857	-80.621	45	4.9	155	58	4	63	87	148	SS_R	-3.517226	147
478	2014/01/05 03:36:40.6	4.449	-76.692	27.5	5.5	288	27	-13	30	84	-117	N_SS	0.2561	33
479	2014/01/09 12:50:18.4	2.963	-75.958	24.7	5	43	82	173	134	83	8	SS	-29.46907	84
480	2014/01/26 05:10:27.2	-3.874	-80.862	35.9	5.3	135	33	103	300	58	82	R	-1.015239	34

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Norma (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
481	2014/02/17 09:41:36.2	6.4	-71.704	42.1	5.3	136	35	43	8	67	117	R_SS	-1.213546	87
482	2014/02/19 11:10:12.5	9.592	-69.699	15.6	5.3	240	63	153	343	66	29	SS_R	-2.704641	108
483	2014/02/21 11:43:26.5	12.403	-70.732	37.5	5.1	273	32	-92	95	58	-89	N	0.0002	94
484	2014/03/09 20:29:52.6	1.625	-79.323	15	5.6	38	12	126	182	80	83	R	-1.015161	93
485	2014/03/25 09:56:31.1	-2.312	-79.319	25	5.2	164	45	81	357	46	99	R	-1.012387	80
486	2014/04/02 16:13:26.7	7.835	-82.363	10	6	76	74	-6	168	84	-164	SS	10.6180	8
487	2014/04/30 05:43:15.4	0.662	-77.968	15	4.9	332	56	3	240	87	146	SS_R	-3.17884	147
488	2014/04/30 09:52:16.8	7.251	-82.708	20.3	4.9	142	29	120	289	65	75	R	-1.062428	25
489	2014/05/13 06:35:24.2	7.128	-82.309	10	6.5	359	77	172	91	83	13	SS	-14.49434	31
490	2014/05/13 21:59:04.9	7.41	-82.335	10	4.8	2	64	178	93	88	26	SS_R	-5.17722	7
491	2014/05/14 05:28:24.5	7.63	-82.324	27.6	5.3	90	76	12	357	78	166	SS_R	-10.07811	49
492	2014/05/14 09:46:14.7	7.406	-82.326	17.2	5.3	221	87	178	311	88	3	SS	-252.9203	75
493	2014/05/14 18:47:03.1	5.046	-82.589	20	4.9	99	79	4	8	86	169	SS	-24.3323	79
494	2014/05/25 02:30:12.4	6.096	-82.391	10	5.1	1	80	178	92	88	10	SS	-31.9129	12
495	2014/06/16 06:39:32.3	1.697	-79.398	10	5.7	29	11	116	183	80	85	R	-1.007046	93
496	2014/06/16 13:26:46.6	11.677	-81.443	23	5.3	1	59	150	107	65	34	SS_R	-2.227427	49
497	2014/08/03 21:02:40.0	-3.908	-80.83	30.5	5.5	20	23	116	172	69	79	R	-1.030226	86
498	2014/08/12 19:58:00.1	-0.135	-78.451	12.5	5.1	197	44	109	351	49	72	R	-1.053905	93
499	2014/08/16 15:08:22.4	-0.155	-78.456	19.8	4.9	343	46	52	211	56	123	R_SS	-1.243986	101
500	2014/09/02 22:21:59.5	10.776	-69.693	14.7	4.8	100	75	-169	7	79	-15	SS_N	8.9052	152
501	2014/09/16 16:49:35.6	7.56	-82.4	10	5.1	11	33	150	127	74	61	R_SS	-1.28613	46
502	2014/09/20 06:50:01.3	2.981	-79.316	16.8	4.7	8	35	-106	206	57	-80	N	0.0217	21
503	2014/10/03 05:37:18.0	4.707	-82.644	18	5.3	90	83	3	360	87	173	SS	-56.9766	67
504	2014/10/08 10:26:06.6	3.513	-82.787	16	4.8	93	75	-5	184	85	-165	SS	12.4997	22
505	2014/10/08 14:05:24.1	3.675	-82.829	17	4.7	95	81	-1	185	89	-171	SS	39.3720	11
506	2014/10/09 10:33:35.3	7.244	-78.304	12.4	4.9	323	78	5	232	86	168	SS	-19.8036	120
507	2014/10/13 04:58:24.9	5.274	-82.626	20.6	5	359	74	176	90	86	16	SS	-12.42656	13
508	2014/10/20 19:33:21.8	0.715	-77.962	15	5.6	52	89	-179	322	89	-1	SS	-1641.767	7
509	2014/10/29 13:22:43.9	5.937	-82.656	21.5	5.1	359	81	179	89	89	9	SS	-40.37265	5
510	2014/11/09 13:53:17.2	6.383	-82.604	10	5	355	84	178	85	88	6	SS	-82.43279	13
511	2014/11/28 04:36:24.7	8.668	-77.489	50.2	5.1	168	71	-174	76	84	-19	SS_N	7.6384	59
512	2014/12/06 17:21:49.0	7.941	-82.727	24.7	6	302	30	80	134	61	96	R	-1.007596	41
513	2014/12/08 08:54:52.5	7.943	-82.704	18.8	6.6	307	29	86	132	61	92	R	-1.001145	40
514	2014/12/08 18:44:47.1	7.948	-82.669	20	5.4	305	28	80	137	62	95	R	-1.00669	44
515	2014/12/21 17:40:40.3	-0.411	-77.967	20	5	194	43	140	315	64	55	R_SS	-1.375411	63
516	2014/12/26 23:52:15.2	6.496	-82.415	10	6	5	77	177	96	87	13	SS	-18.79562	18
517	2015/01/24 02:02:12.1	3.3034	-83.1566	10	4.8	99	84	3	9	87	174	SS	-73.33629	72
518	2015/01/31 18:55:44.0	7.7336	-82.9026	9.1	5.2	352	75	-169	259	80	-15	SS_N	9.5129	46
519	2015/01/31 18:57:48.4	5.2945	-82.6554	15	5.3	0	86	177	90	87	4	SS	-131.7203	37
520	2015/02/05 04:21:50.9	8.3181	-72.0709	21.8	5.3	53	53	138	171	57	45	R_SS	-1.543792	109

**Table 1.** Origin and location of the considered events and information on the two nodal planes for the focal mechanisms analyzed in this study. Fault type: (R) Reverse; (R\_SS) Reverse strike-slip; (SS\_R) Strike-slip reverse; (SS) Strike-slip; (SS\_N) Strike-slip normal; (N\_SS) Normal strike-slip; (N) Normal (*continued*).

n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
521	2015/02/05 04:40:51.5	5.2496	-82.5919	10	5.7	2	86	177	92	87	4	SS	-131.7203	39
522	2015/02/05 07:42:53.6	5.2798	-82.6118	10	4.9	178	81	-179	88	89	-9	SS	39.3732	82
523	2015/02/12 22:21:36.2	7.5681	-81.8735	6.8	4.8	93	72	10	0	81	162	SS_R	-8.145506	63
524	2015/03/09 02:48:45.6	6.4992	-82.7064	14	5.8	353	81	179	83	89	9	SS	-40.37265	179
525	2015/03/19 11:52:00.7	-3.3364	-80.6389	53.8	4.9	128	42	-34	244	68	-126	N_SS	0.4225	79
526	2015/03/24 19:19:52.9	7.598	-81.8691	8.7	5.1	5	73	-177	274	87	-17	SS	10.3654	84
527	2015/05/01 17:16:03.8	5.4699	-82.6353	15	4.8	93	78	1	3	89	168	SS	-22.97836	88
528	2015/05/09 14:31:50.9	11.3747	-72.258	20.1	4.9	251	65	-7	344	84	-155	SS_N	4.3310	177
529	2015/05/30 06:26:05.0	1.2143	-79.5704	26.3	5.4	32	21	117	183	72	80	R	-1.02719	97
530	2015/06/06 21:56:47.0	6.5751	-82.3896	27.3	4.8	278	88	-1	8	89	-178	SS	655.8481	35
531	2015/06/25 02:53:13.1	8.2336	-82.7869	8.4	4.8	183	45	104	343	47	76	R	-1.030146	83
532	2015/07/19 11:16:21.5	2.8259	-78.978	13.1	5	17	10	101	186	81	88	R	-1.001099	96
533	2015/07/29 00:10:24.7	8.1627	-77.3327	13.4	5.9	291	65	155	32	67	27	SS_R	-3.073967	159
534	2015/07/30 20:54:34.6	3.3563	-82.8261	24	4.9	96	88	0	186	90	-178	SS	655.8481	33
535	2015/08/09 08:36:13.1	5.0721	-82.6418	12	5.4	2	83	175	93	85	7	SS	-44.77136	38
536	2015/08/26 12:00:09.5	7.0107	-82.3802	7.8	4.6	183	80	-172	92	82	-10	SS	19.4336	54
537	2015/09/07 05:51:17.4	8.6664	-77.8474	15.2	4.9	219	47	115	5	49	66	R_SS	-1.105623	111
538	2015/09/28 08:15:57.7	-3.4046	-80.6828	35	5	45	29	121	191	65	74	R	-1.066494	107
539	2015/10/12 04:35:40.8	7.4592	-77.5627	13.6	4.9	345	26	81	175	65	94	R	-1.004725	83
540	2015/11/07 06:58:30.3	8.5	-71.411	10.2	5.4	333	63	-4	65	87	-153	SS_N	3.8011	71
541	2015/11/07 15:53:45.8	8.5185	-71.3765	0.2	4.9	43	64	-161	304	73	-27	SS_N	2.6500	94
542	2015/11/14 12:20:22.9	8.4962	-71.3976	10.1	4.7	135	80	3	44	87	170	SS	-30.47776	118
543	2015/11/20 18:00:04.4	8.4801	-71.4206	4.4	4.7	283	56	-38	36	59	-139	N_SS	0.7197	67
544	2015/11/22 20:38:31.5	8.5231	-71.4016	5.2	5.1	325	86	3	235	87	176	SS	-131.7151	108
545	2015/11/28 10:59:11.4	3.8094	-71.2247	2.8	4.8	301	65	-8	34	83	-154	SS_N	3.8979	48
546	2015/12/29 02:54:06.0	6.8226	-76.6862	14.6	5.1	4	60	23	262	70	148	SS_R	-2.743447	144
547	2016/01/01 17:15:42.9	0.4413	-78.9319	16	5.1	305	38	6	210	86	128	R_SS	-1.599736	117
548	2016/01/22 02:41:15.2	4.9682	-78.3071	23.4	5	15	42	-121	234	55	-65	N_SS	0.1362	39
549	2016/01/31 11:38:36.2	8.7243	-82.8095	12.5	5.1	13	78	178	104	88	12	SS	-22.52604	23
550	2016/02/11 07:02:23.4	3.8648	-82.6472	14	4.8	183	73	-166	89	77	-18	SS_N	6.0790	54
551	2016/03/06 00:54:41.4	-1.467	-80.5403	40.7	5	179	39	-103	16	52	-80	N	0.0191	10
552	2016/04/11 09:29:28.5	7.0156	-76.6944	20.2	5.3	13	55	23	270	72	143	SS_R	-2.317845	156
553	2016/04/16 23:58:36.9	0.2792	-79.984	8.7	7.8	27	21	124	171	73	78	R	-1.041839	85
554	2016/04/17 07:14:00.8	-0.4541	-80.3478	16.6	6	8	33	95	182	57	87	R	-1.002258	94
555	2016/04/17 09:23:41.0	-0.244	-80.7068	9	5.7	11	19	92	190	71	89	R	-1.000129	99
556	2016/04/18 18:38:10.8	-0.9786	-80.8643	10	5.5	1	19	92	179	71	89	R	-1.000129	89
557	2016/04/18 21:15:52.8	-0.0793	-80.8531	10	5.3	123	68	20	25	71	157	SS_R	-4.1512	79
558	2016/04/19 02:03:14.7	-0.2241	-80.8016	10	4.9	14	21	91	193	69	90	R	-1.000039	103
559	2016/04/19 17:12:53.6	-1.2973	-80.9925	13.6	4.9	346	26	65	193	67	101	R	-1.035542	99
560	2016/04/19 22:22:25.5	0.5389	-80.0795	19.6	5.7	12	17	100	181	73	87	R	-1.002584	92

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n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
561	2016/04/20 08:33:47.3	0.6192	-80.2827	9.9	6	16	15	97	189	75	88	R	-1.000996	99
562	2016/04/20 08:35:10.6	0.6538	-80.1205	13	6.1	20	25	105	184	65	83	R	-1.012109	96
563	2016/04/20 21:30:04.1	0.5552	-80.0139	17	5	7	23	93	184	67	89	R	-1.000418	94
564	2016/04/22 03:03:41.7	-0.2809	-80.6118	15.3	6	23	16	114	178	75	83	R	-1.012729	90
565	2016/04/22 03:20:13.4	-0.3058	-80.6907	16.6	5.9	10	18	97	182	72	88	R	-1.00142	93
566	2016/04/22 04:31:34.2	-0.374	-80.5406	21	5	21	25	103	187	66	84	R	-1.00912	99
567	2016/04/22 08:52:20.0	-0.2218	-80.7322	32.3	5.1	345	10	73	182	80	93	R	-1.002584	92
568	2016/04/23 01:24:33.9	0.6107	-80.2957	11	5.7	4	17	63	212	75	98	R	-1.017934	120
569	2016/04/26 21:58:34.7	-0.1716	-80.7604	1.2	5.3	6	17	73	204	74	95	R	-1.007361	112
570	2016/04/29 17:37:54.0	6.8179	-82.6578	10	4.8	177	84	-177	87	87	-6	SS	72.3382	61
571	2016/05/18 07:57:02.7	0.4212	-79.8868	29.9	6.7	28	18	123	174	75	80	R	-1.029152	86
572	2016/05/18 16:46:43.9	0.4637	-79.7153	30.3	6.9	28	21	123	174	73	78	R	-1.039605	87
573	2016/06/01 10:05:18.8	0.2942	-80.5509	7	5.1	146	37	-98	335	54	-84	N	0.0072	151
574	2016/06/01 15:00:54.5	0.2566	-80.5501	2.2	4.9	336	39	-83	147	52	-95	N	0.0047	150
575	2016/06/06 16:16:27.4	5.2637	-82.6591	15	4.8	359	89	179	89	89	1	SS	-1641.767	44
576	2016/07/06 06:19:48.3	0.9195	-79.5427	24.5	4.9	103	42	-29	216	71	-129	N_SS	0.5481	51
577	2016/07/08 04:28:43.3	-0.3966	-80.9451	5.7	5.4	354	14	81	183	76	92	R	-1.001434	93
578	2016/07/09 11:37:35.9	6.8386	-82.7073	36.5	4.9	354	79	174	85	84	11	SS	-21.30521	23
579	2016/07/11 02:01:09.9	0.5408	-79.6789	22.6	5.9	22	22	115	176	70	80	R	-1.025708	89
580	2016/07/11 02:11:04.8	0.4951	-79.7704	23.7	6.3	28	21	121	175	72	79	R	-1.035269	89
581	2016/07/20 01:20:23.6	-0.9308	-80.5875	18.6	4.9	6	35	105	168	56	79	R	-1.022535	84
582	2016/08/09 13:21:03.7	4.958	-82.6732	12	4.8	3	81	176	94	86	9	SS	-34.22434	27
583	2016/08/17 16:22:05.1	7.5713	-82.1553	4.3	4.9	264	80	-5	354	86	-170	SS	27.6747	16
584	2016/08/26 04:25:28.0	-0.9527	-80.4952	16.5	4.8	11	22	97	183	68	87	R	-1.002089	95
585	2016/09/14 01:58:31.6	7.1963	-76.1983	14.6	5.9	122	43	165	223	80	48	R_SS	-1.766672	142
586	2016/09/25 18:24:00.9	-3.2325	-80.7274	53	4.9	238	75	-175	146	85	-15	SS	12.4999	128
587	2016/10/31 00:20:11.6	3.3838	-74.6272	40.9	5.6	213	51	131	339	54	52	R_SS	-1.351261	94
588	2016/10/31 02:05:58.0	3.3863	-74.5923	38	5	204	64	152	307	65	28	SS_R	-2.701109	74
589	2016/11/12 20:08:46.8	6.0437	-82.5796	10	5.7	359	82	178	89	88	8	SS	-48.62905	13
590	2016/12/06 04:51:01.9	4.687	-77.2548	33.3	4.9	78	41	-120	296	56	-67	N_SS	0.1172	103
591	2016/12/12 15:54:00.2	0.8551	-79.8705	19.4	5.1	21	23	105	185	68	84	R	-1.010333	97
592	2016/12/19 07:11:39.6	0.8395	-79.7997	6.4	5.5	36	25	61	247	68	103	R	-1.043819	153
593	2016/12/20 10:49:58.2	0.8815	-79.8144	13.1	5.3	358	4	131	138	87	87	R	-1.002099	47
594	2016/12/20 17:39:23.1	0.8665	-79.7916	5.6	4.9	16	26	79	208	65	95	R	-1.007046	116
595	2017/01/12 16:06:31.9	6.0601	-77.9396	5.96	5.2	274	30	-105	111	62	-81	N	0.0194	107
596	2017/01/31 14:22:38.7	0.702	-79.6769	10	5.4	35	20	130	173	75	77	R	-1.050787	87
597	2017/02/06 13:02:45.1	3.4493	-74.6715	37.95	5.5	217	43	118	1	53	67	R_SS	-1.114224	106
598	2017/02/12 09:32:26.5	12.2926	-72.9907	7.37	5.3	32	17	45	259	78	103	R	-1.044649	166
599	2017/03/10 13:46:39.6	11.9771	-69.5658	15	5.2	328	41	-93	152	49	-88	N	0.0007	151
600	2017/03/16 19:39:15.6	4.6692	-82.6173	0	5	89	83	2	359	88	173	SS	-62.29565	73



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n°	Origin time	Latitude	Longitude	Depth (km)	Moment magnitude	Nodal planes						Slip model		
						Strike	Dip	Rake	Strike	Dip	Rake	Fault type	k'	De <sub>y</sub>
601	2017/03/21 04:29:10.9	-3.6792	-80.9208	23.59	5	18	28	106	181	63	82	R	-1.017031	94
602	2017/03/21 08:31:21.0	6.2863	-77.5221	7.11	5	324	13	67	168	78	95	R	-1.007786	76
603	2017/03/24 09:00:56.0	3.3117	-79.4066	9.49	5.2	103	28	-65	255	65	-103	N	0.0434	81
604	2017/03/29 03:49:01.5	5.3636	-82.5942	10	5.4	3	80	177	93	87	10	SS	-30.47804	20
605	2017/04/02 23:54:33.4	8.9766	-82.4604	10	5.3	175	62	-169	80	80	-28	SS_N	3.0999	62
606	2017/04/09 03:09:45.6	5.6837	-82.6171	10	5.3	111	86	4	20	86	176	SS	-102.9997	66
607	2017/04/18 17:49:55.1	-2.7118	-75.3035	14	5.9	17	43	90	197	47	90	R	-1	107
608	2017/06/05 11:34:11.3	-4.072	-80.3583	49	5.6	157	45	64	12	50	114	R_SS	-1.106297	86
609	2017/06/23 04:02:53.7	6.5687	-82.3313	10	4.7	8	71	-176	276	86	-19	SS_N	8.0625	85
610	2017/06/24 00:48:14.9	6.5774	-82.3829	10	5.2	7	84	176	97	86	6	SS	-63.53538	41
611	2017/06/30 22:29:45.1	-0.2849	-80.4927	13	6	18	18	106	181	73	85	R	-1.007308	93
612	2017/07/11 12:09:15.6	0.7164	-79.7006	17	5.4	28	22	121	175	72	78	R	-1.038664	89
613	2017/08/08 20:43:42.2	6.5362	-72.0903	49.1	4.8	211	60	-151	105	65	-34	SS_N	1.2965	73
614	2017/08/26 08:12:51.5	6.1691	-82.6647	10	5.2	359	75	174	90	84	15	SS	-12.95637	21
615	2017/11/18 04:23:46.7	-2.9657	-79.707	35	5.5	56	30	-172	319	86	-60	N_SS	0.3312	137
616	2017/12/03 11:19:05.4	-0.47	-80.3101	17	6.2	23	19	118	174	73	81	R	-1.02392	86
617	2017/12/25 02:18:11.9	6.524	-82.6649	10	5.1	357	82	180	87	90	8	SS	-50.84359	4