



Supplement of

Analysis of seismic strain release related to the tidal stress preceding the 2008 Wenchuan earthquake

Xuezhong Chen et al.

Correspondence to: Yane Li (luckystarabcd@163.com) and Xuezhong Chen (cxz8675@163.com)

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Supplementary material

430 **PEQs ($\Delta\text{TCFS}>0$) and NEQs ($\Delta\text{TCFS}<0$) with seismic strain release ε and ΔTCFS**

No.	Date	Lat. (°N)	Lon. (°E)	ε ($\times 10^4$)	ΔTCFS (Pa/m)	No.	Date	Lat. (°N)	Lon. (°E)	ε ($\times 10^4$)	ΔTCFS (Pa/m)
1	1990-1-4	30.87	103.40	0.756	-0.16	110	2000-4-23	30.82	103.27	2.436	0.54
2	1990-1-9	30.72	103.22	3.600	-0.22	111	2000-6-22	31.02	103.33	0.918	0.71
3	1990-1-9	30.67	103.18	1.357	-0.22	112	2000-7-22	31.48	104.08	0.756	0.33
4	1990-1-9	30.70	103.22	2.004	-0.23	113	2000-10-14	31.60	103.78	0.918	-0.40
5	1990-4-6	30.58	103.32	1.116	0.30	114	2000-10-17	31.03	103.42	0.622	-0.28
6	1990-4-20	30.58	103.28	0.756	0.16	115	2000-11-10	30.87	103.30	0.918	-0.64
7	1990-4-23	30.63	103.28	2.004	-0.50	116	2000-12-5	31.52	104.05	0.511	-0.19
8	1990-5-28	30.57	103.23	3.600	0.28	117	2000-12-29	31.53	104.10	1.116	0.54
9	1990-6-13	31.48	104.07	1.357	-1.42	118	2001-1-21	31.12	103.77	0.918	0.90

10	1990-6-30	31.18	103.62	0.511	-0.24	119	2001-1-21	31.12	103.77	1.116	0.38
11	1990-7-16	30.92	103.12	0.511	0.12	120	2001-1-22	31.12	103.75	0.511	0.65
12	1990-9-7	31.53	103.98	0.918	0.31	121	2001-1-29	30.92	103.10	1.357	0.54
13	1990-9-19	31.32	103.82	0.511	0.27	122	2001-4-10	30.82	103.12	0.918	0.20
14	1990-10-7	30.70	103.22	2.004	0.42	123	2001-4-28	30.72	103.48	1.357	-0.48
15	1990-10-16	31.48	103.98	0.622	-0.48	124	2001-6-25	31.38	103.82	0.511	-0.34
16	1991-2-27	31.62	104.07	0.622	0.97	125	2001-7-18	31.52	103.97	1.649	1.10
17	1991-3-7	30.88	103.37	0.918	-0.93	126	2001-7-29	31.22	103.30	1.649	-0.14
18	1991-3-29	30.68	103.53	0.511	0.63	127	2001-8-9	31.50	104.07	0.622	0.60
19	1991-9-9	31.00	103.37	2.004	-0.32	128	2001-9-24	30.92	103.33	2.004	0.18
20	1991-10-9	31.43	103.97	0.756	0.83	129	2001-11-24	31.22	103.27	0.622	0.63
21	1991-10-31	31.42	103.97	0.622	0.63	130	2001-12-25	31.17	103.35	0.511	0.28
22	1991-12-1	31.03	103.42	3.600	0.94	131	2002-3-19	31.43	103.78	0.756	-0.88
23	1992-1-24	30.82	103.43	1.116	0.34	132	2002-5-12	31.33	103.43	0.511	-0.35
24	1992-8-24	31.32	103.62	2.004	0.73	133	2002-7-5	31.47	104.05	0.918	0.38
25	1992-9-16	31.18	104.18	1.116	0.03	134	2002-7-13	31.57	104.08	0.756	0.64
26	1992-10-5	31.12	104.02	0.918	0.28	135	2002-7-17	31.62	104.02	5.318	-0.37
27	1992-12-18	31.02	103.63	3.600	-0.75	136	2002-7-23	31.03	103.93	0.622	-1.95
28	1992-12-20	31.13	103.07	0.622	-0.43	137	2002-8-6	31.50	104.25	0.756	0.79
29	1992-12-22	31.33	103.88	0.511	0.72	138	2002-10-25	31.77	103.78	0.622	0.73
30	1993-1-16	31.20	103.92	0.511	0.98	139	2002-11-16	31.07	103.68	0.511	-0.48
31	1993-3-2	30.57	103.42	2.004	0.14	140	2002-11-17	31.07	103.62	2.436	0.32
32	1993-3-2	30.68	103.15	0.756	0.22	141	2002-11-27	30.97	103.37	7.857	-1.15
33	1993-3-30	31.25	103.87	1.357	-0.37	142	2003-1-21	31.45	103.93	0.622	0.96
34	1993-5-17	30.57	103.22	2.004	0.08	143	2003-2-2	31.47	103.92	5.318	-1.53
35	1993-6-22	31.18	103.57	0.756	0.70	144	2003-2-24	31.07	103.52	0.511	-0.88
36	1993-7-11	31.48	103.93	3.600	-0.13	145	2003-2-27	31.22	103.32	0.918	0.76
37	1993-8-31	31.38	104.02	1.116	0.31	146	2003-3-30	31.07	103.53	0.756	0.61

38	1993-9-30	31.67	103.73	3.600	-0.05	147	2003-3-31	31.07	103.57	0.622	-0.10
39	1994-3-5	31.50	103.93	1.116	0.81	148	2003-4-20	31.43	104.03	0.756	-0.78
40	1994-3-24	31.07	103.88	0.756	-0.27	149	2003-5-6	31.33	103.80	1.357	0.94
41	1994-3-24	31.07	103.88	1.116	-0.37	150	2003-8-31	30.82	103.42	0.622	0.75
42	1994-4-28	31.27	103.43	0.756	0.18	151	2003-9-3	31.10	103.47	2.004	0.14
43	1994-6-7	31.17	103.83	1.357	0.58	152	2003-9-15	31.13	103.42	2.436	0.47
44	1994-7-26	31.32	103.75	0.511	0.16	153	2003-9-19	30.88	103.68	0.918	0.80
45	1994-8-23	31.58	104.07	1.116	0.18	154	2003-10-8	30.98	103.42	0.622	-0.95
46	1994-9-26	31.58	104.12	2.961	-0.50	155	2004-1-1	31.23	103.80	0.622	0.78
47	1995-1-17	31.47	103.62	0.918	0.46	156	2004-1-10	31.00	103.53	0.511	0.68
48	1995-2-1	30.95	103.47	1.649	0.90	157	2004-1-31	31.25	103.43	0.756	0.26
49	1995-2-3	31.00	103.47	1.116	0.25	158	2004-2-27	31.55	104.03	1.116	0.57
50	1995-2-3	31.00	103.47	2.004	0.07	159	2004-4-1	31.00	103.67	0.511	0.73
51	1995-2-3	31.00	103.47	0.511	0.42	160	2004-4-17	30.77	103.28	0.511	-0.06
52	1995-2-7	31.07	103.90	0.511	-0.61	161	2004-4-30	31.07	103.50	1.357	0.41
53	1995-5-3	31.58	103.93	0.756	-0.08	162	2004-5-1	31.33	103.82	2.961	-0.15
54	1995-9-9	31.38	103.87	7.857	-0.67	163	2004-5-12	31.03	103.27	1.116	-0.96
55	1995-9-27	31.57	104.12	1.116	0.96	164	2004-8-18	31.27	103.87	5.318	0.67
56	1996-1-14	31.47	103.93	0.511	-0.80	165	2004-9-1	31.50	103.88	7.857	0.65
57	1996-2-3	30.82	103.13	0.622	0.04	166	2004-9-4	31.03	103.47	0.918	0.11
58	1996-5-9	31.23	103.53	2.004	0.58	167	2004-9-4	31.02	103.45	0.511	0.10
59	1997-1-24	30.85	103.50	0.511	-1.33	168	2004-9-6	31.25	103.92	0.622	0.14
60	1997-2-1	30.70	103.37	0.756	0.10	169	2004-9-17	31.23	103.53	0.756	-0.71
61	1997-6-13	31.17	104.22	0.622	0.65	170	2004-11-10	30.80	103.40	2.004	0.32
62	1997-10-5	30.57	103.28	0.511	0.16	171	2004-12-22	30.95	103.32	4.375	0.38
63	1997-10-7	31.45	103.92	1.116	-1.06	172	2005-1-5	31.27	103.85	0.756	-0.06
64	1997-10-11	31.27	103.72	1.116	0.14	173	2005-2-7	31.48	104.07	0.622	-0.27
65	1997-10-13	31.27	103.22	1.116	0.05	174	2005-3-12	31.17	103.77	1.649	0.87

66	1997-11-18	31.25	103.33	0.622	0.60	175	2005-3-17	31.18	103.77	0.756	-0.95
67	1997-12-14	31.58	104.12	0.622	-0.59	176	2005-3-17	31.22	103.78	0.511	-0.95
68	1998-5-11	31.28	103.73	0.511	-1.31	177	2005-4-4	31.23	104.05	0.622	0.58
69	1998-8-2	30.68	103.37	5.318	-0.87	178	2005-4-18	30.83	103.67	1.357	0.69
70	1998-9-3	31.50	104.00	1.116	0.35	179	2005-4-27	30.82	103.22	0.511	-0.46
71	1998-9-22	31.57	104.07	2.436	-0.36	180	2005-4-30	31.40	104.27	0.511	-0.04
72	1998-10-5	30.75	103.32	0.511	-0.91	181	2005-5-19	31.20	103.47	0.511	-0.51
73	1998-11-2	31.25	103.73	0.756	0.08	182	2005-7-20	31.18	103.70	3.600	1.44
74	1999-1-5	31.50	103.98	0.918	0.84	183	2005-9-8	30.62	103.48	0.511	-0.12
75	1999-3-6	31.18	103.35	2.961	0.43	184	2005-9-10	30.98	103.63	1.357	1.00
76	1999-3-13	31.33	104.30	0.511	0.58	185	2005-9-10	31.03	103.62	1.649	1.00
77	1999-3-23	31.28	104.33	1.116	-1.00	186	2005-9-10	30.60	103.47	0.622	-0.70
78	1999-6-13	31.32	103.27	1.357	-0.37	187	2005-10-12	31.57	103.98	0.918	0.53
79	1999-6-16	31.25	103.82	1.357	-1.97	188	2005-10-15	31.30	103.82	0.756	0.73
80	1999-6-16	31.23	103.37	0.622	-1.94	189	2006-2-23	31.57	103.97	0.756	-0.96
81	1999-7-7	30.80	103.25	1.116	-0.01	190	2006-3-28	31.23	103.60	0.511	0.22
82	1999-9-8	30.63	103.47	6.464	-0.95	191	2006-3-29	30.78	103.32	0.511	-0.97
83	1999-9-14	31.60	104.07	0.756	-0.74	192	2006-5-19	30.93	103.38	0.622	0.07
84	1999-9-14	31.58	104.07	0.511	-0.76	193	2006-5-27	30.95	103.38	1.116	0.07
85	1999-9-15	31.62	104.07	0.511	0.54	194	2006-6-9	31.53	103.52	0.622	-1.23
86	1999-9-23	31.32	103.78	2.004	0.23	195	2006-7-25	31.42	103.95	2.004	0.59
87	1999-10-12	30.85	103.47	1.116	0.49	196	2006-7-29	31.53	104.03	0.918	0.64
88	1999-10-20	31.60	104.08	1.357	-0.20	197	2006-8-20	31.25	103.52	0.918	0.73
89	1999-10-28	31.58	104.07	2.961	0.15	198	2006-9-2	30.63	103.23	3.600	0.56
90	1999-11-7	31.48	103.53	0.622	0.60	199	2006-9-27	31.62	104.08	1.649	0.26
91	1999-11-9	30.95	103.43	0.511	0.95	200	2006-10-23	30.85	103.37	0.622	-1.28
92	1999-11-10	30.73	103.55	2.004	0.98	201	2007-1-13	31.12	103.83	0.622	-1.07
93	1999-11-10	30.73	103.55	0.511	0.88	202	2007-2-10	31.57	104.02	0.918	-0.89

94	1999-11-12	30.73	103.55	2.436	0.92		203	2007-2-12	30.98	103.38	2.004	0.63
95	1999-11-16	30.58	103.52	5.318	-0.14		204	2007-6-28	30.62	103.23	0.918	1.03
96	1999-11-21	31.57	104.03	0.918	-0.81		205	2007-8-1	30.80	103.58	0.622	-1.55
97	1999-12-1	31.18	103.83	0.622	-0.01		206	2007-8-9	31.38	104.22	2.004	0.89
98	1999-12-3	30.75	103.57	0.511	-0.67		207	2007-8-10	31.43	104.13	0.622	-1.89
99	1999-12-20	31.22	103.32	0.511	0.82		208	2007-8-19	31.32	103.82	2.436	0.76
100	2000-1-5	31.63	104.05	0.511	1.08		209	2007-11-11	31.43	103.87	0.756	-0.91
101	2000-1-22	31.60	104.03	0.511	1.08		210	2007-12-30	30.93	103.12	0.756	-0.16
102	2000-2-2	31.62	104.07	0.511	0.41		211	2008-2-14	31.00	103.58	1.116	0.12
103	2000-2-5	31.33	103.92	0.756	0.06		212	2008-2-14	30.97	103.62	5.318	0.13
104	2000-3-18	30.83	103.52	0.622	0.17		213	2008-2-14	30.97	103.60	0.511	0.44
105	2000-3-18	30.85	103.53	0.756	0.19		214	2008-2-14	30.98	103.57	2.436	0.54
106	2000-3-18	30.83	103.53	0.511	0.19		215	2008-2-28	31.27	103.70	6.464	0.41
107	2000-4-5	31.27	103.58	0.622	-0.14		216	2008-3-4	30.57	103.27	0.918	-1.04
108	2000-4-9	30.93	103.60	1.116	0.64		217	2008-3-12	31.23	103.67	1.357	0.57
109	2000-4-22	31.63	104.03	0.918	0.97							

Note: Lat-Latitude; Lon-Longitude; ϵ - seismic strain release(measured in $J^{1/2}$). Δ TCFS is measured in Pa per minute.