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This supplementary information file contains 2 tables referred to in the text.

Supplementary Tables

Station Name	Splitting delay (s)	Fast Polarization Angle (°)	Original Polarization Angle (°)
KELB/KLNB	0.1	104	31
PGC	0.075	101	43
SILB	0.075	93	38
SSIB	0.25	112	66

Table S1: Splitting parameters determined from templates and applied to tremor S-waveforms.

Cluster /Patch	Dataset	Number of events	Area (km ²)	Area/event (km ²)	<d> between (m)	2003 total moment	2004 total moment	2005 total moment	2003-2005 cumulative moment	Azimuth (deg.)	Dip (deg.)	Std. Dev. (m)
1	4S	2468	10.23	4.25e-3	64	3.74e14	3.16e14	2.23e14	9.13e14	N/A	N/A	N/A
2	4S	5234	16.83	3.21e-3	57	5.73e14	6.19e14	6.03e14	1.79e15	N/A	N/A	N/A
3	4S	1219	8.34	6.84e-3	83	8.35e13	1.47e14	2.15e14	4.45e14	N/A	N/A	N/A
4	4S	571	2.92	5.11e-3	72	5.46e13	6.51e13	9.24e13	2.12e14	N/A	N/A	N/A
1	4S+1P	567	4.55	6.46e-3	80	N/A	N/A	N/A	N/A	46.5	10.5	306
2	4S+1P	2236	11.99	5.36e-3	73	N/A	N/A	N/A	N/A	69.6	10.5	251
3	4S+1P	1005	7.50	7.46e-3	86	N/A	N/A	N/A	N/A	156.0	6.8	202
4	4S+1P	215	1.73	8.05e-3	90	N/A	N/A	N/A	N/A	40.0	333.9	145
North (1&2)	4S+1P	3231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	65.6	10.5	294
South (3&4)	4S+1P	1442	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120.6	0.5	265

Table S2: Miscellaneous detection and cluster information. Moment calculations were carried out for the larger 4S data set only. Dip orientations for clusters and patches were only determined using the 4S+1P data set which had measured depths. Cluster areas in the larger 4S data set are slightly larger than those in the smaller 4S+1P data set due to different numbers of events and slightly modified locations.