

Slicing up the San Francisco Bay Area: Block kinematics and fault slip rates from GPS-derived surface velocities

d'Alessio et al.

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ELECTRONIC SUPPLEMENT

d'Alessio, M. A., I. A. Johanson, R. Bürgmann, D. A. Schmidt, and M. H. Murray, Slicing up the San Francisco Bay Area: Block kinematics and fault slip rates from GPS-derived surface velocities, *J. Geophysical Research*, 110, doi:10.1029/2004JB003496, 2005.

Table ES 1: Horizontal velocities from the Bay Area Velocity Unification (BÄVÜ). Table ES1a is the data exactly as modeled in a stable North America reference frame defined as in the text. Additional reference frames, ITRF2000-NNR and a local reference frame, are included in electronic form as Tables ES1b and ES1c, respectively. These data are shown in Figures 1 and 3. Note that this table includes select velocities from the SCEC CMM 3.0 velocity field. Data are listed from east to west. Columns are Longitude (Lon), Latitude (Lat), east and north vector components of velocity (Vel_E , Vel_N), 1σ uncertainty in the east and north components of velocity (σ_E , σ_N), and the correlation coefficient between the east and north components ($Corr_{EN} = (\sigma_N^2 - \sigma_E^2) * \tan(2 * \theta) / 2$), where θ is the angle that the major axis of the error ellipse makes with North.

Name	Lon °E	Lat °N	Vel_E mm·yr ⁻¹	Vel_N mm·yr ⁻¹	σ_E mm·yr ⁻¹	σ_N mm·yr ⁻¹	Corr_{EN} dimensionless
KELY	-50.945	66.987	0.376	-0.664	0.500	0.500	0.001
STJO	-52.678	47.595	-0.325	0.057	0.400	0.300	0.001
BRMU	-64.696	32.370	0.182	0.524	0.300	0.300	-0.001
SCH2	-66.833	54.832	-0.077	1.075	0.500	0.500	-0.002
THU1	-68.788	76.537	-1.061	-0.740	0.400	0.400	-0.002
BARN	-71.160	44.099	0.083	0.221	0.900	0.800	-0.002
WES2	-71.493	42.613	0.857	-1.844	0.400	0.400	-0.013
NRC1	-75.624	45.454	-0.531	-0.552	0.400	0.400	-0.002
GODE	-76.827	39.022	0.228	0.444	0.300	0.300	-0.001
USNO	-77.066	38.919	-1.000	0.443	0.500	0.500	-0.001
ALGO	-78.071	45.956	0.878	-0.443	0.300	0.300	-0.000
MIA3	-80.160	25.733	19.835	-12.879	0.400	0.400	-0.006
AOML	-80.162	25.735	-3.464	2.322	0.400	0.400	-0.006
RCM5	-80.384	25.614	-0.808	1.814	0.400	0.400	-0.006
RCM6	-80.384	25.614	-2.208	0.314	0.400	0.400	-0.006
NLIB	-91.575	41.772	0.527	0.527	0.300	0.300	-0.002
CHUR	-94.089	58.759	0.019	0.048	0.500	0.500	0.001
DUBO	-95.866	50.259	-0.931	-0.336	0.500	0.500	-0.001
FLIN	-101.978	54.726	-0.232	-0.919	0.500	0.500	0.002
MDO1	-104.015	30.681	0.050	0.367	0.300	0.300	-0.007
AMC2	-104.525	38.803	-2.136	0.662	0.600	0.500	0.001
PIE1	-108.119	34.302	0.132	0.116	0.300	0.300	-0.005
PRDS	-114.293	50.871	0.205	-0.359	0.500	0.500	0.002
YELL	-114.481	62.481	0.426	0.507	0.300	0.300	-0.000
GOL2	-116.889	35.425	-6.894	6.534	0.400	0.400	0.000
GOLD	-116.889	35.425	-6.694	6.234	0.500	0.400	-0.001
JPLM	-118.173	34.205	-25.608	24.065	0.400	0.400	1.000
0614	-118.588	35.745	-11.700	9.850	0.880	0.910	-0.048
0611	-118.727	36.185	-12.080	10.880	1.760	1.120	-0.013

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel _E mm·yr ⁻¹	Vel _N mm·yr ⁻¹	σ _E mm·yr ⁻¹	σ _N mm·yr ⁻¹	Corr _{EN} dimensionless
HOTK	-118.821	37.659	-3.969	7.481	1.700	1.700	0.006
KRAC	-118.880	37.713	-6.564	12.500	1.700	1.800	0.007
RDOM	-118.898	37.677	-7.376	8.806	0.600	0.600	0.002
MWTP	-118.945	37.641	-10.493	7.622	0.600	0.600	0.000
KNOL	-118.979	37.659	-9.993	8.633	0.600	0.600	0.001
DDMN	-118.981	37.744	-12.971	12.633	1.900	1.900	0.006
LINC	-119.017	37.637	-10.505	9.745	0.600	0.600	0.002
MINS	-119.061	37.654	-10.907	8.760	0.500	0.400	0.001
JNPR	-119.085	37.772	-10.280	9.768	0.500	0.500	-0.004
0605	-119.118	36.738	-9.510	11.140	1.100	1.030	-0.058
0613	-119.259	35.819	-11.670	13.540	2.270	2.180	0.072
0609	-119.288	36.289	-10.850	11.320	1.000	1.020	-0.032
MUSB	-119.309	37.170	-11.372	9.841	0.500	0.500	0.002
FIBR	-119.394	35.398	-13.350	12.660	0.880	0.880	-0.050
DRAO	-119.625	49.323	1.093	2.145	0.300	0.300	-0.003
P807	-119.853	35.603	-12.460	15.030	0.920	0.890	-0.049
C616	-120.001	35.575	-16.190	18.810	0.960	0.920	-0.052
TWR2	-120.018	35.488	-20.680	23.710	0.890	0.910	-0.034
TAR0	-120.047	35.889	-8.600	15.510	0.940	0.930	-0.047
POSO	-120.113	35.520	-20.630	24.980	0.950	0.920	-0.038
HTR1	-120.178	35.686	-17.230	20.910	0.850	0.870	-0.060
COTT	-120.222	35.788	-14.310	19.240	0.830	0.860	-0.054
REDH	-120.261	35.605	-23.240	26.890	0.830	0.860	-0.057
CBAR	-120.265	35.756	-17.710	21.460	0.880	0.910	-0.050
WATH	-120.273	35.708	-21.210	26.160	0.880	0.920	-0.053
L623	-120.293	35.583	-23.990	29.030	1.420	1.030	-0.037
PK59	-120.306	35.896	-12.570	18.180	0.840	0.880	-0.052
H623	-120.346	35.607	-24.680	30.070	1.090	1.010	-0.037
KNGR	-120.347	35.914	-12.690	17.800	0.860	0.910	-0.056
GO42	-120.350	35.831	-14.530	21.550	0.870	0.910	-0.051
BENH	-120.351	35.746	-21.980	28.210	0.830	0.870	-0.056
0607	-120.354	36.501	-7.750	9.920	1.240	1.050	0.042
PPER	-120.382	35.674	-23.660	29.820	1.230	1.150	-0.036
CMBB	-120.386	38.034	-11.115	9.192	0.400	0.400	-0.003
CAND	-120.434	35.939	-12.190	19.290	1.110	1.140	-0.029
JOAQ	-120.435	35.909	-14.160	19.860	0.870	0.920	-0.054
MNMT	-120.435	35.969	-10.870	19.080	0.880	0.900	-0.052
MASO	-120.443	35.833	-22.610	30.410	0.840	0.890	-0.053
ALMO	-120.453	35.552	-25.240	31.560	0.840	0.870	-0.055
BREK	-120.463	35.888	-22.650	30.230	0.870	0.910	-0.052
33JD	-120.465	35.943	-12.510	19.210	0.890	0.930	-0.058
WD42	-120.469	35.763	-24.120	31.100	0.870	0.900	-0.052
LAND	-120.473	35.900	-22.840	29.940	1.100	1.130	-0.030
BUCK	-120.537	35.925	-24.080	32.350	0.880	0.920	-0.052

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel _E mm·yr ⁻¹	Vel _N mm·yr ⁻¹	σ _E mm·yr ⁻¹	σ _N mm·yr ⁻¹	Corr _{EN} dimensionless
JD84	-120.540	35.957	-24.650	32.790	0.870	0.910	-0.053
PKDB	-120.542	35.945	-24.281	31.943	0.500	0.500	-0.005
BARR	-120.573	35.456	-27.250	33.170	0.870	0.910	-0.059
CHEC	-120.584	35.970	-24.390	32.710	0.870	0.910	-0.053
MITH	-120.596	36.079	-9.590	14.610	0.870	0.910	-0.050
VNDP	-120.616	34.556	-32.860	34.867	0.400	0.400	0.001
SHR2	-120.682	36.030	-26.250	33.740	0.870	0.910	-0.051
TESS	-120.698	35.386	-27.240	34.390	0.920	0.960	-0.045
TOSA	-120.708	35.949	-25.170	33.710	0.880	0.920	-0.052
JAST	-120.721	38.340	-12.090	8.201	0.600	0.600	-0.022
0510	-120.816	36.188	-28.870	30.750	1.130	1.040	-0.050
BLHL	-120.832	35.359	-28.660	35.700	0.820	0.860	-0.062
QUIN	-120.944	39.975	-9.816	7.772	0.400	0.400	0.001
05UH	-120.996	36.410	-11.429	14.689	1.000	0.700	-0.118
ONIE	-121.060	37.080	-12.666	9.109	0.500	0.500	0.010
H104	-121.178	37.464	-12.086	8.847	0.500	0.500	-0.014
05WG	-121.184	36.571	-30.317	36.049	0.900	0.900	-0.005
OSI2	-121.201	36.294	-28.491	36.855	1.100	0.900	-0.035
05WF	-121.270	36.696	-18.098	20.977	0.900	0.900	0.005
CNDR	-121.278	37.896	-13.692	8.779	0.600	0.600	0.002
BLAN	-121.284	35.665	-29.420	37.330	1.000	1.010	-0.035
PACH	-121.288	37.008	-14.820	13.882	0.600	0.600	0.006
TURK	-121.299	36.900	-12.650	10.786	0.600	0.600	0.011
0512	-121.323	36.420	-27.077	37.794	0.800	0.700	-0.005
05YF	-121.325	36.793	-12.981	13.694	0.600	0.600	-0.003
FV30	-121.357	36.926	-13.552	10.804	0.600	0.600	0.014
OSR1	-121.375	37.508	-13.806	9.510	0.500	0.600	-0.013
HOLL	-121.402	36.893	-15.668	13.119	0.500	0.500	0.006
HOLI	-121.407	36.856	-17.878	13.220	0.600	0.600	-0.001
05VE	-121.429	36.493	-30.075	36.027	0.700	0.600	-0.003
SAOB	-121.447	36.765	-31.108	36.933	0.500	0.500	0.001
KNOB	-121.453	36.872	-18.081	23.035	0.500	0.500	0.004
RAIL	-121.462	36.909	-18.073	21.738	0.700	0.700	0.010
0509	-121.484	35.992	-29.540	35.750	1.040	1.020	-0.025
MORS	-121.494	36.841	-18.396	24.048	0.600	0.600	0.016
ORVB	-121.500	39.555	-11.513	7.850	0.400	0.400	0.002
CROS	-121.518	36.823	-31.304	37.156	0.600	0.600	0.007
PGN1	-121.543	36.838	-30.204	35.764	0.500	0.500	0.010
C20_	-121.548	36.921	-20.184	24.365	0.800	0.800	0.024
S138	-121.548	36.921	-22.384	26.265	2.300	1.900	-0.038
MOCH	-121.556	37.477	-14.743	10.368	0.500	0.500	-0.011
05ZD	-121.557	36.905	-21.189	24.668	1.300	1.000	0.060
S300	-121.558	37.667	-12.395	10.069	0.600	0.600	0.002
HIWA	-121.560	36.820	-31.711	35.069	0.600	0.600	0.005

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel _E mm·yr ⁻¹	Vel _N mm·yr ⁻¹	σ _E mm·yr ⁻¹	σ _N mm·yr ⁻¹	Corr _{EN} dimensionless
DGA3	-121.564	36.861	-30.302	32.670	0.600	0.600	0.004
MEDA	-121.566	37.755	-13.274	9.371	0.700	0.800	0.065
77RT	-121.568	36.873	-25.399	28.772	0.600	0.600	0.005
GAMB	-121.577	36.055	-26.211	34.475	1.800	1.800	0.003
PGN4	-121.585	36.887	-23.898	29.577	0.600	0.600	0.003
PGN6	-121.587	36.921	-22.390	25.278	1.700	1.700	0.025
GILR	-121.616	36.980	-20.879	23.787	0.500	0.500	0.007
PGN5	-121.621	36.892	-28.003	33.589	0.600	0.600	0.004
TORO	-121.628	36.540	-27.194	33.791	1.800	1.800	-0.003
HAML	-121.643	37.342	-17.392	12.296	0.500	0.500	-0.015
MHCB	-121.643	37.342	-13.392	11.796	0.400	0.400	0.001
BORO	-121.659	36.722	-30.952	35.901	1.600	0.800	-0.201
CHO1	-121.665	39.433	-11.571	8.003	0.600	0.600	0.003
SALI	-121.666	36.698	-29.159	34.703	1.400	0.800	-0.087
05YC	-121.668	36.791	-29.736	34.303	0.600	0.500	-0.006
04AL	-121.673	36.914	-27.305	32.805	0.700	0.600	0.018
B112	-121.675	37.694	-11.608	9.706	1.000	1.100	0.050
USG7	-121.703	37.622	-12.930	12.615	0.800	0.900	0.046
PERR	-121.706	37.184	-20.142	22.316	1.500	1.600	0.023
METC	-121.714	37.229	-21.732	22.818	0.600	0.500	0.004
MINN	-121.722	37.954	-14.850	7.221	1.200	1.300	0.057
COY_	-121.738	37.219	-22.138	23.126	0.500	0.500	-0.011
0513	-121.750	36.763	-28.956	34.630	0.600	0.500	0.003
UCD1	-121.751	38.536	-12.008	8.830	0.400	0.400	0.002
PAJ3	-121.754	36.879	-23.427	32.731	3.500	2.400	-0.031
05ZB	-121.771	36.846	-29.338	33.636	0.700	0.600	-0.013
FORD	-121.772	36.589	-27.604	38.537	1.200	1.100	0.008
BRU2	-121.773	36.590	-30.104	36.637	0.500	0.500	-0.006
CAAA	-121.783	37.186	-22.854	23.840	0.500	0.500	-0.004
MAZZ	-121.788	37.137	-23.067	25.742	0.500	0.600	-0.004
JOBE	-121.792	37.922	-12.669	10.443	0.700	0.700	0.037
FRAN	-121.795	36.439	-29.246	33.544	2.100	2.000	-0.148
MULL	-121.799	36.749	-32.667	36.745	0.700	0.700	0.009
NDDD	-121.809	37.069	-23.388	29.448	0.500	0.500	-0.012
SARE	-121.810	37.594	-14.255	13.049	0.600	0.600	0.006
FEIF	-121.814	36.235	-28.602	37.450	1.800	1.700	0.001
SUTB	-121.821	39.206	-11.954	8.052	0.500	0.500	0.002
CORR	-121.833	37.012	-26.006	32.656	0.500	0.500	0.002
LP4_	-121.839	37.050	-25.897	30.758	0.700	0.700	0.013
LOMA	-121.844	37.111	-22.482	27.559	0.600	0.600	0.010
LP1_	-121.845	37.110	-23.183	27.360	0.400	0.400	-0.007
MOLR	-121.851	36.288	-28.594	35.962	1.700	1.700	0.003
LUTZ	-121.865	37.287	-21.141	23.966	0.500	0.500	0.001
MONB	-121.867	37.485	-16.991	17.467	0.500	0.500	0.001

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel _E mm·yr ⁻¹	Vel _N mm·yr ⁻¹	σ _E mm·yr ⁻¹	σ _N mm·yr ⁻¹	Corr _{EN} dimensionless
SHER	-121.870	37.541	-15.178	19.368	0.600	0.600	0.013
ALLI	-121.871	37.499	-16.188	17.768	0.600	0.600	0.007
LEON	-121.874	36.946	-28.729	34.169	0.600	0.600	0.060
MILS	-121.888	37.540	-16.581	18.173	0.600	0.600	0.050
LP2_	-121.909	37.104	-24.995	29.880	0.600	0.600	0.007
DIAB	-121.916	37.879	-13.000	12.482	0.500	0.500	0.001
1582	-121.919	37.507	-17.094	18.083	1.000	1.100	0.026
PORT	-121.920	37.004	-27.022	33.883	0.500	0.500	0.003
GREG	-121.924	36.982	-29.528	33.685	0.500	0.500	-0.010
COME	-121.926	37.167	-22.681	26.685	1.100	1.100	0.003
SODB	-121.926	37.166	-22.682	26.785	0.600	0.600	0.004
SOBR	-121.929	36.449	-30.265	37.886	1.800	1.700	0.001
CAIS	-121.935	37.513	-17.395	18.888	1.000	0.800	-0.058
CAOS	-121.935	37.513	-17.295	19.788	1.800	1.500	-0.051
POTB	-121.935	38.203	-12.022	9.788	0.500	0.500	0.001
CAES	-121.936	37.512	-19.896	23.388	1.000	0.800	-0.065
FIRE	-121.938	37.047	-27.314	32.589	0.600	0.600	-0.019
SUNS	-121.940	37.643	-17.363	17.690	0.600	0.600	0.066
BURD	-121.947	37.110	-26.199	29.392	0.500	0.400	0.001
3814	-121.952	37.806	-14.624	13.994	1.000	1.000	0.013
WINE	-121.952	37.532	-15.293	17.694	1.400	1.400	0.023
WINW	-121.953	37.532	-20.693	22.394	1.200	1.200	0.005
BRUC	-121.961	37.073	-25.811	33.196	0.500	0.500	0.002
ROIS	-121.961	37.543	-16.292	19.496	1.100	1.000	0.012
ROES	-121.962	37.542	-15.192	23.397	8.100	3.000	0.326
ROOS	-121.962	37.544	-16.692	17.897	0.900	1.000	-0.024
VASO	-121.966	37.247	-21.668	25.898	0.800	0.800	-0.016
ODAM	-121.973	37.180	-23.086	27.500	1.100	1.100	0.002
Z137	-121.974	37.480	-20.610	24.300	0.600	0.700	0.014
SNJO	-121.977	37.206	-22.380	27.601	0.500	0.500	0.006
TRAL	-121.994	37.059	-27.020	34.707	0.500	0.500	0.006
CAML	-121.995	38.417	-8.878	10.307	0.600	0.600	0.001
WED2	-121.995	37.738	-15.748	17.607	0.600	0.600	0.004
BRIG	-121.996	37.185	-22.988	28.807	0.400	0.400	0.005
AWIS	-122.002	37.589	-16.886	17.309	1.200	1.100	0.016
AWOS	-122.002	37.589	-18.986	18.209	1.500	1.500	0.001
AWES	-122.003	37.588	-20.386	23.510	1.100	1.300	-0.077
GARS	-122.011	37.645	-18.274	18.412	0.600	0.600	0.039
ELSE	-122.023	37.217	-22.984	28.916	0.500	0.500	-0.000
AR34	-122.035	37.426	-21.433	22.520	1.100	1.100	0.003
BEND	-122.035	37.426	-22.333	24.520	1.000	1.000	0.014
CLIF	-122.052	36.950	-30.357	35.125	0.500	0.500	-0.009
CRO3	-122.052	36.993	-27.146	35.125	1.200	1.200	-0.010
SCAZ	-122.056	36.978	-30.550	34.326	1.200	1.200	-0.007

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel _E mm·yr ⁻¹	Vel _N mm·yr ⁻¹	σ _E mm·yr ⁻¹	σ _N mm·yr ⁻¹	Corr _{EN} dimensionless
LOMP	-122.059	37.099	-24.420	34.927	1.100	1.200	-0.010
ROC2	-122.061	37.815	-16.340	16.528	0.500	0.500	0.016
CAS2	-122.069	37.732	-17.062	17.831	0.600	0.600	0.018
RDHL	-122.095	37.551	-21.812	23.839	0.500	0.600	0.051
COYS	-122.097	37.563	-21.809	23.839	0.500	0.600	0.051
VAC3	-122.103	38.398	-12.101	9.541	0.500	0.500	-0.002
GORR	-122.115	38.331	-12.720	10.445	0.700	0.700	0.004
CHAB	-122.119	37.724	-16.972	19.246	0.400	0.400	0.003
FTHL	-122.123	37.363	-22.964	27.448	0.800	0.900	0.017
HILL	-122.128	37.937	-14.820	17.049	0.600	0.600	0.059
WINT	-122.141	37.653	-20.693	22.853	0.400	0.400	0.002
EBBB	-122.151	37.710	-20.081	23.856	2.200	2.500	0.115
ENES	-122.151	37.760	-20.869	22.756	8.300	2.500	0.203
MSLL	-122.151	37.711	-20.481	22.756	1.000	1.000	0.035
ENIS	-122.152	37.757	-19.970	22.657	1.700	1.000	0.025
BM1R	-122.153	37.290	-24.487	30.657	0.700	0.700	0.015
BRIB	-122.153	37.919	-15.529	17.157	0.400	0.400	0.004
PAWT	-122.167	37.324	-24.680	30.361	0.600	0.600	0.020
WILL	-122.168	52.237	-1.120	1.562	0.600	0.600	0.004
SUAA	-122.173	37.427	-22.856	26.863	0.400	0.400	0.002
GAME	-122.175	38.351	-13.425	12.164	0.500	0.500	0.004
SLBB	-122.184	37.691	-19.691	23.967	0.700	0.700	0.020
EAUN	-122.195	37.147	-28.930	35.070	0.500	0.500	-0.009
MADI	-122.203	38.313	-14.539	15.173	0.500	0.500	0.012
LSES	-122.211	37.825	-23.562	22.675	4.600	1.900	0.357
0402	-122.216	37.028	-29.063	35.977	0.600	0.600	0.000
TRUE	-122.216	37.312	-25.691	32.177	0.600	0.700	0.015
BAPK	-122.222	37.884	-16.949	19.279	0.500	0.600	0.034
CROC	-122.229	38.043	-16.510	17.381	1.100	1.100	0.008
04GG	-122.247	37.879	-17.354	18.487	0.800	0.800	-0.016
STAA	-122.250	37.871	-17.557	20.088	2.600	1.900	0.069
STAB	-122.251	37.872	-17.557	20.088	2.300	1.500	0.105
STAD	-122.251	37.870	-18.957	24.088	0.900	0.900	-0.016
STAC	-122.252	37.871	-18.657	23.488	0.900	0.900	-0.014
0410	-122.255	38.030	-17.318	18.789	1.000	1.200	0.044
HAGG	-122.259	38.324	-13.845	16.290	0.500	0.500	0.021
UCBK	-122.265	37.872	-20.059	23.992	0.500	0.600	0.042
FLE2	-122.273	37.898	-14.453	18.395	3.700	2.600	-0.056
FLIS	-122.273	37.898	-16.453	18.695	1.700	1.300	0.072
OHLN	-122.273	38.006	-16.927	18.895	1.700	1.700	0.007
FLES	-122.274	37.896	-19.153	20.195	1.900	1.300	0.084
FLI2	-122.274	37.895	-21.053	21.495	2.300	2.600	-0.013
HAUL	-122.284	37.274	-25.712	35.098	0.900	1.000	0.100
MALO	-122.298	37.998	-17.833	17.303	1.400	1.600	0.084

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel _E mm·yr ⁻¹	Vel _N mm·yr ⁻¹	σ _E mm·yr ⁻¹	σ _N mm·yr ⁻¹	Corr _{EN} dimensionless
MARE	-122.304	37.930	-20.350	24.105	0.900	0.600	0.086
MARX	-122.304	37.932	-18.549	21.605	8.500	3.300	0.410
MRA_	-122.305	37.932	-20.449	24.205	1.000	0.800	0.063
DEAL	-122.338	38.258	-15.075	17.915	0.700	0.800	0.027
CCES	-122.340	37.971	-24.547	24.016	4.300	1.800	0.112
RMD1	-122.340	37.934	-20.156	24.316	1.400	1.700	-0.002
04HG	-122.356	37.992	-17.044	18.921	0.900	1.000	-0.002
SP12	-122.356	37.991	-18.945	21.421	0.800	0.700	0.053
SPA1	-122.356	37.992	-16.644	20.021	0.900	0.900	-0.001
SPA5	-122.356	37.988	-19.045	24.021	0.900	0.700	0.064
SPA6	-122.356	37.989	-19.045	25.221	1.000	1.000	-0.016
HALM	-122.359	37.228	-30.436	35.622	0.600	0.700	0.021
HENN	-122.362	38.283	-14.772	19.823	1.700	1.900	0.048
NAVY	-122.366	37.810	-21.391	26.224	0.500	0.600	0.028
PEEE	-122.382	37.592	-22.648	30.029	0.700	0.700	0.038
PPT1	-122.390	37.187	-29.751	36.532	0.400	0.400	0.002
PIGE	-122.395	37.183	-29.353	36.833	0.600	0.600	-0.020
HIL4	-122.402	37.942	-21.164	25.635	1.100	1.100	0.005
SNPR	-122.416	37.959	-20.862	24.240	0.800	0.900	-0.003
PBL1	-122.419	37.853	-23.889	22.941	0.400	0.400	0.002
MOLA	-122.420	37.947	-19.666	24.541	0.400	0.400	0.000
TIBB	-122.448	37.891	-20.584	25.450	0.500	0.500	0.003
PRSD	-122.455	37.805	-23.307	27.552	0.800	0.800	0.029
AIRR	-122.456	38.223	-17.103	20.052	0.500	0.500	0.019
PALO	-122.456	37.527	-26.977	33.052	0.600	0.600	0.024
SWEE	-122.458	37.609	-25.656	32.053	0.600	0.600	0.015
WHAL	-122.504	37.509	-27.289	34.467	0.700	0.700	0.026
ADOO	-122.527	38.236	-17.812	23.075	0.500	0.500	0.014
COR_	-122.595	38.186	-19.935	24.896	0.500	0.500	0.010
T3R2	-122.599	37.923	-23.501	27.597	0.600	0.600	0.056
YBHB	-122.711	41.732	-4.199	7.932	0.400	0.400	0.001
NICC	-122.737	38.093	-21.982	29.340	0.500	0.500	0.014
1395	-122.813	38.087	-24.596	30.564	0.600	0.600	0.042
PRH2	-122.869	38.080	-25.407	33.482	0.500	0.500	0.012
PRNC	-122.937	38.104	-28.813	34.803	1.600	1.500	0.070
FARB	-123.001	37.697	-28.724	38.123	0.400	0.400	0.002
PRH3	-123.015	37.996	-28.552	38.027	0.600	0.600	0.004
PTRB	-123.019	37.996	-26.853	37.328	0.800	0.800	0.004
HOPB	-123.075	38.995	-19.718	22.146	0.400	0.400	0.002
ALBH	-123.487	48.390	4.428	5.474	0.400	0.400	0.003
CME1	-124.396	40.442	-10.005	31.853	0.500	0.500	0.002
WHIT	-135.222	60.751	-0.244	3.746	0.400	0.400	0.002
FAIR	-147.499	64.978	0.085	-0.784	0.300	0.300	-0.000
THTI	-149.606	-17.577	-68.697	49.160	0.700	0.600	0.016

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Table ES 1 – continued from previous page

Name	Lon °E	Lat °N	Vel_E mm·yr ⁻¹	Vel_N mm·yr ⁻¹	σ_E mm·yr ⁻¹	σ_N mm·yr ⁻¹	Corr_{EN} dimensionless
TAHI	-149.609	-17.577	-70.697	54.361	4.900	3.000	0.054
MKEA	-155.456	19.801	-61.460	52.059	0.500	0.400	0.009
KOKB	-159.665	22.126	-60.438	52.788	0.400	0.400	0.013
CHAT	-176.566	-43.956	-39.819	51.736	0.500	0.500	0.018
KWJ1	-192.270	8.722	-71.462	46.220	0.600	0.500	0.007

Table ES 2: Definition of model geometry. Fault systems are listed from west to east, with individual fault segments listed from north to south. Columns 2 - 5 show longitude (Lon) and latitude (Lat) of starting and ending points of each segment. LD = Locking depth, based on D_{95} . LD of zero indicates only block motion across a segment with no strain accumulation. Such faults are either known to be creeping (central San Andreas) or are short connecting segments with unknown geometry. Creep column indicates the *a priori* constraint and 1σ bounds placed on the shallow slip rate (uniform rate from the surface to the locking depth). If no rate is given, we assume the fault is locked above LD and do not solve for shallow slip on that segment. Last column indicates model geometries in which the segment appears: S = Simple; P= Preferred; C=Complex.

Name	Lon _{start} °E	Lat _{start} °N	Lon _{end} °E	Lat _{end} °N	L.D. km	Creep mm-yr ⁻¹	Models
SanGregorio_GoldenGate	-122.673	37.905	-122.000	36.501	13	–	SPC
SanGregorio_CarmelSouth	-122.000	36.501	-121.375	35.750	14	–	SPC
SanAndreas_Mendocino	-124.241	40.264	-123.690	38.999	15	–	SPC
SanAndreas_Marin	-123.690	38.999	-122.673	37.905	15	–	SPC
SanAndreas_SF	-122.673	37.905	-122.174	37.324	12	–	SPC
SanAndreas_Peninsula	-122.174	37.324	-121.926	37.120	14	–	SPC
SanAndreas_SantaCruzMountains1	-121.926	37.120	-121.729	36.985	15	–	SPC
SanAndreas_SantaCruzMountains2	-121.729	36.985	-121.533	36.850	15	^a	SPC
SanAndreas_SanJuanBautista	-121.533	36.850	-121.409	36.765	10	14.0 ± 2.0	SPC
SanAndreas_Creep1	-121.409	36.765	-121.286	36.679	0	–	SPC
SanAndreas_Creep2	-121.286	36.679	-121.042	36.448	0	–	SPC
SanAndreas_Creep3	-121.042	36.448	-120.614	36.052	0	–	SPC
SanAndreas_ParkfieldTransition	-120.614	36.052	-120.359	35.814	10	–	SPC
RodgersCreek_North	-123.551	39.756	-122.979	38.810	10	–	SPC
RodgersCreek_South	-122.979	38.810	-122.450	38.147	10	–	SPC
HaywardRodgersCreekStepover	-122.450	38.147	-122.368	38.004	0	–	SPC
Hayward_North	-122.368	38.004	-122.247	37.867	10	4.6 ± 0.5	SPC
Hayward_2	-122.247	37.867	-122.070	37.666	12	3.6 ± 0.5	SPC
Hayward_3	-122.070	37.666	-121.980	37.563	11	5.2 ± 0.3	SPC
Hayward_4	-121.980	37.563	-121.909	37.482	11	4.4 ± 0.5	SPC
Hayward_South	-121.909	37.482	-121.725	37.355	10	–	SPC
WestNapa	-122.389	38.501	-122.188	38.074	11	–	SPC
Calaveras_CarquinezStepover	-122.188	38.074	-122.164	38.030	11	–	PC
SouthHampton	-122.164	38.030	-122.149	37.939	12	–	PC
BrionesSouthHamptonThrust	-122.149	37.939	-122.102	37.914	12	–	PC
Briones	-122.102	37.914	-122.095	37.862	12	–	PC
LasTrampas	-122.095	37.862	-121.982	37.785	12	–	PC
Calaveras_Northern	-121.982	37.785	-121.725	37.355	12	3.0 ± 0.8	SPC
Calaveras_Central1	-121.725	37.355	-121.677	37.290	9	9.4 ± 2.0	SPC
Calaveras_Central2	-121.677	37.290	-121.510	37.062	9	14.0 ± 0.2 ^b	SPC
Calaveras_Southern1	-121.510	37.062	-121.449	36.933	9	10.6 ± 2.0	SPC
Calaveras_Southern2	-121.449	36.933	-121.407	36.843	9	10.6 ± 2.0	SPC
GreenValley_HowellMtns	-122.389	38.501	-122.215	38.380	0	–	SPC
GreenValley	-122.215	38.380	-122.102	38.098	11	4.4 ± 0.4	SPC
Concord_North	-122.102	38.098	-122.003	37.925	16	3.6 ± 0.3	SPC
Concord_South	-122.003	37.925	-121.944	37.851	16	2.7 ± 0.3	SPC
Calavaras_ConcordStep	-121.944	37.851	-121.944	37.851	15	–	SPC
MtDiabloThrust	-121.944	37.851	-121.749	37.797	17	–	SPC
Greenville_North	-121.749	37.797	-121.678	37.684	18	–	SPC
Greenville_South	-121.678	37.684	-121.516	37.460	18	–	PC
MtOsoAnticline	-121.516	37.460	-121.445	37.467	18	–	PC
ValleyMargin_North	-121.445	37.467	-120.398	36.202	18	–	PC
ValleyMargin_South	-120.398	36.202	-119.385	34.929	18	–	PC
Sargent_North	-121.926	37.120	-121.720	37.069	12	–	C
Sargent_South	-121.720	37.069	-121.471	36.919	10	2.9 ± 0.7	C
SargentClosure	-121.471	36.919	-121.449	36.933	0	–	C
MtLewisTrend	-121.678	37.684	-121.677	37.290	9	–	SC ^c
CalaverasSanAndreasPaicinesConnector	-121.407	36.843	-121.286	36.679	0	–	C
Paicines_North	-121.407	36.843	-121.064	36.523	9	6.0 ± 2.0	SPC
Paicines_South	-121.064	36.523	-121.042	36.448	0	–	SPC
ECSZ	-119.420	39.000	-116.249	33.804	15	–	SPC

Table ES 3: Vectors representing axes of relative rotation from various studies.

Reference	Lon $^{\circ}E$	Lat $^{\circ}N$	Rate $^{\circ}Myr^{-1}$	σ_1^a $^{\circ}$	σ_2^a $^{\circ}$	θ^a $^{\circ}$	σ_{rate}^b $^{\circ}Myr^{-1}$
<i>North America - Pacific – Other Studies</i>							
NUVEL-1A ^c	-78.2	48.7	0.749	1.3	1.2	-61	0.012
<i>DeMets and Dixon</i> (1999) Geologic	-76.1	50.0	0.777	0.8	0.6	65	0.007
<i>Larson et al.</i> (1997)	-84.3	49.6	0.83	2.0	1.0	94	0.02
<i>DeMets and Dixon</i> (1999) GPS	-73.7	51.5	0.765	2.0	1.0	-85	0.016
<i>Murray and Segall</i> (2001)	-78.2	48.7	0.774	-	-	-	+0.007 -0.043
<i>Miller et al.</i> (2001)	-77.7	50.9	0.78	-	-	-	-
<i>Beavan et al.</i> (2002)	-75.0	50.3	0.773	0.4	0.2	94	0.005
<i>Sella et al.</i> (2002)	-72.1	50.4	0.755	0.6	0.4	-79	0.004
<i>Gonzalez-Garcia et al.</i> (2003)	-77.0	49.9	0.766	0.25	0.17	94	0.007
<i>Kreemer et al.</i> (2003)	-77.8	50.8	0.768	0.3	0.2	-87	0.005
<i>Steblov et al.</i> (2003) (Preferred)	-75.6	50.8	0.777	0.6	0.4	109	0.007
<i>Steblov et al.</i> (2003) 2	-75.1	50.1	0.780	0.6	0.4	109	0.007
<i>North America - Pacific – This Study</i>							
TWOPLATE (Global Sites Only)	-73.9	52.1	0.773	0.5	0.2	94	0.003
SIMPLE	-74.88	51.79	0.770	0.4	0.1	95	0.003
PREFERRED	-74.65	51.85	0.770	0.4	0.1	95	0.003
COMPLEX	-74.16	51.89	0.771	0.4	0.1	95	0.003
CalaverasEast	-74.69	51.85	0.770	0.4	0.1	95	0.003
CalaverasWest	-74.59	51.76	0.770	0.4	0.1	95	0.003
Preferred, Thrust	-74.65	51.84	0.770	0.4	0.1	95	0.003
Preferred, Unclamped	-74.65	51.85	0.771	0.4	0.1	95	0.003
Preferred, LD= $D_{95} - 8$	-76.28	51.80	0.761	0.3	0.1	91	0.003
Preferred, LD= $D_{95} - 5$	-75.61	51.80	0.764	0.3	0.1	93	0.003
Preferred, LD= $D_{95} + 5$	-73.98	51.86	0.776	0.4	0.1	97	0.003
Preferred, TD=5	-74.70	51.86	0.770	0.4	0.1	95	0.003

Table ES 3: [cont'd] Vectors representing axes of relative rotation from various studies.

Reference	Lon °E	Lat °N	Rate °Myr ⁻¹	σ_1^a °	σ_2^a °	θ^a °	σ_{rate}^b °Myr ⁻¹
<i>Sierra Nevada/Great Valley - North America – Other Studies</i>							
<i>Argus and Gordon</i> (1991)	-128	32	0.61	6	1	51	0.15
<i>Hearn and Humphreys</i> (1998) 1	-154.4	-13.0	0.13	-	-	-	-
<i>Hearn and Humphreys</i> (1998) 2	-131.8	25.4	0.40	-	-	-	-
<i>Dixon et al.</i> (2000)	-138.6	19.1	0.243	30.7	2.1	34	0.218
<i>Murray and Segall</i> (2001)	-90.1	53.9	0.208	~ 180	-	-	+280 -113
<i>Sierra Nevada/Great Valley - North America – This Study</i>							
SIMPLE	-139.61	10.71	0.242	5.2	2.9	28	0.040
PREFERRED	-137.41	9.54	0.231	7.6	3.6	25	0.054
COMPLEX	-138.11	8.51	0.224	8.2	3.9	25	0.054
CalaverasEast	-142.47	-0.01	0.176	12.0	5.6	25	0.044
CalaverasWest	-130.65	24.05	0.435	1.7	1.1	30	0.053
Preferred, Thrust	-137.65	9.24	0.228	7.8	3.7	25	0.054
Preferred, Unclamped	-137.52	8.54	0.226	8.1	3.7	24	0.054
Preferred, LD= $D_{95} - 8$	-174.17	-46.17	0.129	21.7	18.3	39	0.006
Preferred, LD= $D_{95} - 5$	-156.03	-25.06	0.133	20.7	12.4	28	0.019
Preferred, LD= $D_{95} + 5$	-129.42	24.32	0.450	2.1	1.2	26	0.067
Preferred, TD=5	-135.60	13.44	0.259	5.9	2.9	25	0.056
<i>Sierra Nevada/Great Valley - Pacific – Other Studies</i>							
<i>Dixon et al.</i> (2000)	-94.6	46.7	0.930	6.5	0.7	78	0.227
<i>Sierra Nevada/Great Valley - Pacific – This Study</i>							
SIMPLE	-95.32	46.50	0.896	1.5	0.3	74	0.044
PREFERRED	-93.86	46.36	0.890	2.2	0.4	76	0.059
COMPLEX	-93.28	46.54	0.882	2.2	0.4	76	0.060
CalaverasEast	-91.43	46.91	0.829	2.4	0.3	78	0.055
CalaverasWest	-99.85	45.36	1.099	1.2	0.3	70	0.053
Preferred, Thrust	-93.78	46.39	0.887	2.2	0.4	76	0.059
Preferred, Unclamped	-93.67	46.29	0.885	2.2	0.4	77	0.060
Preferred, LD= $D_{95} - 8$	-87.18	47.26	0.688	2.9	0.3	82	0.048
Preferred, LD= $D_{95} - 5$	-89.14	47.06	0.744	2.7	0.3	80	0.052
Preferred, LD= $D_{95} + 5$	-99.35	45.29	1.120	1.5	0.4	72	0.066
Preferred, TD=5	-94.92	46.24	0.922	2.0	0.4	75	0.059

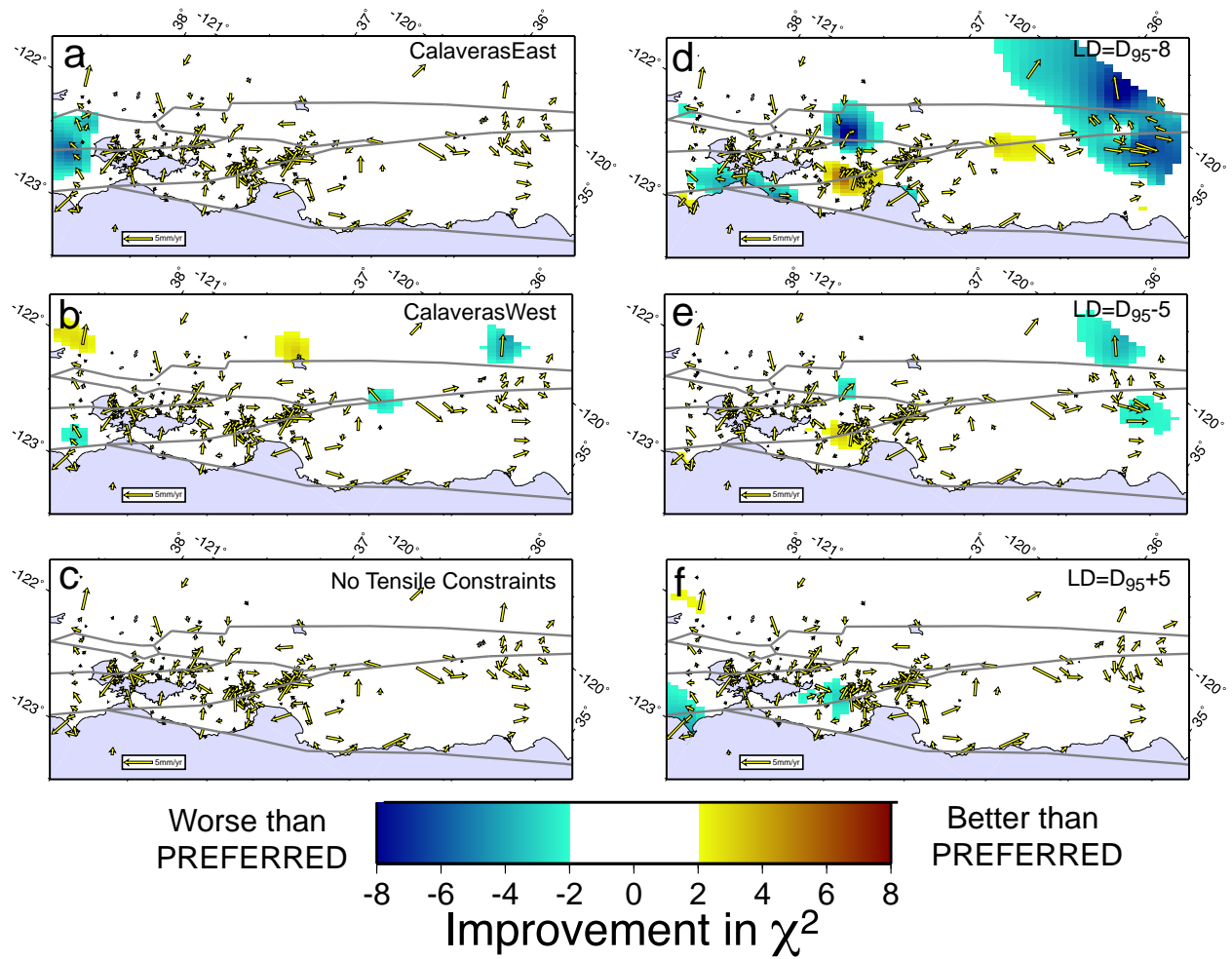


Figure ES 1: Residual velocity (difference between data and model) for multiple model variations. See caption to Fig. 8 for explanation.

Table ES 4: Comparison of strike-slip rates for geologic estimates (WG03) and this study. Fault system names from top row: SG, San Gregorio; SA, San Andreas; RC, Rodgers Creek; H, Hayward; C, Calaveras; GV, Green Valley; Gr, Greenville. Fault segments from second row: N, North; C, Central; S, South; Mr, Marin; SF, San Francisco; SCM, Santa Cruz Mountains; RC, Rodgers Creek; H, Hayward; WN, West Napa; Cn, Concord; Gr, Greenville. Total for the northern section includes the sum of SA-Mrn + RC + WN + GV. Southern total is sum of SG-S + SA-SCM + C-C + Gr. We show 95% confidence bounds ($\pm 2\sigma$) for the three main models. Bounds for other models are similar in magnitude.

Model	SG			SA			RC/H			C			GV/Gr			Total	
	N	S	Mr	SF	SCM	RC	H	WN	N	C	S	GV	Cn	Gr	N	S	
WG03	7	3	24	17	17	9	9	-	6	15	15	5	4	2	38	37	
±	3	2	3	4	4	2	2	-	2	3	3	3	2	1	4	5	
SIMPLE	1.9	2.6	19.6	16.7	15.6	7.2	7.1	0.0	10.0	17.1	16.2	9.0	8.8	-4.1	35.8	31.2	
±	1.0	0.8	1.4	1.2	0.8	1.4	0.8	0.0	1.6	2.6	0.2	0.6	0.4	1.6	2.1	3.3	
PREFERRED	2.4	3.0	20.2	17.1	16.4	6.6	6.5	4.0	6.2	12.9	12.7	7.0	6.7	5.4	37.8	37.7	
±	1.0	0.8	1.4	1.4	1.0	2.4	1.4	3.0	0.8	0.6	0.4	1.8	1.4	0.6	4.5	1.5	
COMPLEX	4.9	5.1	20.6	16.0	13.0	7.8	7.6	3.6	4.2	12.4	20.6	6.9	6.5	6.2	38.9	36.7	
±	1.2	0.8	1.4	1.8	3.8	2.4	1.4	3.2	1.0	1.8	2.2	1.8	1.4	0.6	4.6	4.3	
Variations on models																	
CalaverasWest	2.4	3.0	20.3	17.1	16.1	5.2	5.2	7.4	7.0	12.3	12.0	5.3	5.3	5.3	38.2	36.7	
CalaverasEast	2.6	3.1	19.9	16.7	16.2	7.6	7.5	0.0	5.8	13.2	13.0	10.6	10.6	5.3	38.1	37.8	
Preferred, Thrust	2.4	3.0	20.1	17.1	16.4	6.6	6.6	4.1	6.4	13.1	12.9	6.9	6.5	5.2	37.7	37.7	
Preferred, Unclamped	2.5	3.1	20.1	17.0	16.4	7.0	6.9	2.4	5.7	13.2	12.9	8.3	7.1	5.1	37.8	37.8	
Preferred, LD= $D_{95} - 8$	2.5	3.0	17.5	14.5	13.7	6.5	6.5	3.6	6.7	13.2	12.8	7.3	7.0	4.7	34.9	34.6	
Preferred, LD= $D_{95} - 5$	2.4	2.9	18.5	15.6	14.7	6.5	6.5	3.7	7.0	13.5	13.1	7.2	6.8	4.6	35.9	35.7	
Preferred, LD= $D_{95} + 5$	2.5	3.1	21.1	17.8	17.5	6.9	6.8	5.1	5.0	12.3	12.3	6.2	5.9	6.4	39.3	39.3	
Preferred, LD=5	2.7	3.2	16.9	13.8	12.9	7.5	7.5	3.4	6.8	14.2	13.8	6.7	6.4	3.9	34.5	34.2	
Preferred, LD=8	2.5	3.1	18.2	15.2	14.3	6.8	6.8	4.2	7.3	14.0	13.6	6.4	6.0	4.1	35.6	35.5	
Preferred, LD=13	2.6	3.1	20.1	16.9	16.1	6.3	6.3	5.1	7.0	13.4	13.1	6.1	5.8	4.8	37.6	37.4	
Preferred, LD=18	2.8	3.3	21.2	17.7	17.3	6.5	6.4	6.1	6.1	12.8	12.7	5.5	5.2	5.7	39.3	39.1	
Preferred, TD=5	1.8	2.3	19.6	17.3	16.6	6.9	6.9	4.9	7.9	15.0	14.7	6.7	6.4	4.2	38.1	38.1	
Preferred, TD= $D_{95}/2$	1.8	2.3	19.5	17.2	16.5	7.1	7.1	4.5	7.7	15.0	14.7	6.8	6.5	4.1	37.9	37.9	
Preferred, WG03	5.7	7.0	23.8	16.5	16.3	9.2	9.2	1.6	5.1	14.0	14.4	4.2	3.2	3.2	38.8	40.5	

Table ES 5: Shallow strike-slip (“creep”) rates from model. Fault system names from top row: SA, San Andreas; H, Hayward; C, Calaveras; GV, Green Valley. Fault segments from second row: SCM, Santa Cruz Mountains; SJB, San Juan Bautista; Pk, Parkfield; H1-H4, 4 segments from North - South; N, North; Ctl, Central; S1-S2, Southern 1 - 2; nCn, northern Concord; sCn, southern Concord.

Model	SA				H				C				GV		
	SCM	SJB	Pk		H1	H2	H3	H4	N	Ctl	S1	S2	nCn	sCn	GV
SIMPLE	9.1	20.6	14.1		4.6	3.9	5.1	4.9	1.5	5.4	14.0	7.8	3.7	3.5	2.7
±	2.0	3.0	4.4		1.4	1.4	1.2	1.6	1.8	6.4	0.8	3.6	1.4	1.2	1.2
PREFERRED	9.0	20.3	13.5		4.5	3.7	5.2	5.2	2.0	8.9	14.0	8.4	3.7	3.5	2.6
±	2.0	3.0	4.2		1.4	1.4	1.2	1.6	1.6	6.2	0.8	3.4	1.4	1.2	1.2
COMPLEX	7.5	20.4	14.3		4.6	3.9	5.3	5.3	1.7	8.9	14.1	6.2	3.8	3.5	2.6
±	2.0	2.8	4.2		1.2	1.4	1.0	1.4	1.8	6.0	0.8	3.4	1.4	1.0	1.0
Variations on models															
CalaverasWest	9.3	20.6	14.0		4.4	3.7	5.2	5.2	2.0	8.9	14.0	8.5	3.8	3.4	2.6
CalaverasEast	9.0	20.3	13.6		4.7	3.8	5.2	5.1	2.2	8.5	14.0	8.4	3.5	3.5	2.7
Preferred, Thrust	9.0	20.3	13.5		4.6	3.7	5.2	5.2	1.8	8.9	14.0	8.3	3.8	3.5	2.6
Preferred, Unclamped	8.9	20.3	13.6		4.6	3.9	5.2	5.3	1.6	8.4	14.0	8.4	3.7	3.5	2.6
Preferred, LD= $D_{95} - 8$	8.9	22.3	-2.3		4.5	3.9	5.2	4.9	1.6	8.6	14.0	6.2	3.9	3.5	2.6
Preferred, LD= $D_{95} - 5$	8.9	20.9	10.0		4.6	3.8	5.2	5.0	1.6	7.7	14.0	7.6	3.8	3.5	2.6
Preferred, LD= $D_{95} + 5$	9.3	20.0	14.7		4.5	3.8	5.3	5.5	2.2	10.3	14.0	8.6	3.7	3.4	2.6
Preferred, LD=5	7.9	21.7	9.9		4.5	3.8	5.2	5.0	1.4	7.7	14.0	7.9	3.9	3.5	2.6
Preferred, LD=8	8.2	21.0	12.4		4.6	3.8	5.2	5.1	1.6	8.2	14.0	8.3	3.9	3.5	2.6
Preferred, LD=13	8.6	20.4	14.0		4.6	3.8	5.2	5.3	2.0	9.4	14.0	8.6	3.8	3.5	2.6
Preferred, LD=18	9.1	20.1	14.7		4.5	3.9	5.3	5.5	2.2	10.7	14.0	8.7	3.8	3.5	2.6
Preferred, TD=5	9.9	22.8	16.5		4.6	3.9	5.3	5.2	2.3	10.2	14.1	8.8	4.0	3.6	2.7
Preferred, TD= $D_{95}/2$	9.9	22.5	16.6		4.6	3.9	5.3	5.2	2.2	10.6	14.1	9.1	4.0	3.5	2.7
Preferred, WG03	7.3	21.3	14.3		5.1	4.0	5.2	6.5	4.0	13.8	12.3	8.3	3.2	4.5	3.7

Table ES 6: Comparison of tensile-slip rates for calculated from models. Note that positive “tensile-slip” represents contraction and negative values represent extension. See caption of Table 4 for abbreviations.

Model	SG		SA			RC/H		C			GV/Gr			
	N	S	Mr	SF	SCM	RC	H	WN	N	C	S	GV	Cn	Gr
SIMPLE	-3.5	-2.2	-3.2	1.5	6.8	0.3	1.3	0.0	-2.3	4.0	-4.5	0.8	1.4	3.0
±	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.0	2.0	2.4	0.4	0.6	0.6	2.2
PREFERRED	-2.9	-2.1	-1.9	0.2	4.9	-1.6	0.1	-0.5	1.0	1.1	-3.0	2.4	1.2	-0.4
±	0.6	0.6	0.6	0.6	0.6	1.2	1.0	2.4	0.8	0.8	0.8	1.8	1.8	0.6
COMPLEX	0.0	-0.7	0.2	-4.9	-8.9	-3.3	0.6	-0.5	0.5	4.5	4.7	2.5	1.2	0.3
±	0.8	0.8	0.8	0.8	2.0	1.2	1.0	2.6	1.2	2.2	1.8	1.8	1.8	0.8
Variations on models														
CalaverasWest	-3.2	-1.8	-2.3	1.3	6.3	-2.4	-1.0	3.6	0.7	0.1	-3.3	-0.4	0.8	0.1
CalaverasEast	-2.5	-2.0	-2.3	-0.5	4.4	3.2	2.5	0.0	0.4	1.0	-3.2	-1.2	1.5	-0.3
Preferred, Thrust	-2.9	-2.1	-1.9	0.2	4.9	-1.6	0.0	-0.5	1.0	1.1	-3.1	2.4	1.2	-0.3
Preferred, Unclamped	-2.7	-2.1	-2.0	-0.3	4.5	-1.5	1.1	-2.8	-2.0	0.1	-3.6	4.7	4.7	1.4
Preferred, LD= $D_{95} - 8$	-2.3	-2.0	0.4	1.3	5.1	-0.4	-0.1	-2.4	0.4	-0.3	-3.7	1.5	1.2	-0.2
Preferred, LD= $D_{95} - 5$	-2.7	-2.1	0.2	1.4	5.4	-0.8	-0.2	-3.1	0.6	-0.0	-3.7	2.6	1.2	-0.3
Preferred, LD= $D_{95} + 5$	-3.1	-2.0	-5.8	-2.0	3.8	-1.6	1.0	3.0	1.6	2.7	-2.1	2.3	1.1	-0.3
Preferred, LD=5	-2.2	-1.8	0.6	1.4	5.0	-0.5	-0.3	-3.1	0.3	-0.7	-4.2	2.0	1.1	-0.2
Preferred, LD=8	-2.5	-1.9	0.4	1.5	5.3	-0.6	-0.3	-3.9	0.4	-0.4	-4.0	2.9	1.1	-0.2
Preferred, LD=13	-2.7	-1.8	-1.1	0.7	5.1	-1.0	-0.0	-1.8	0.7	0.5	-3.4	2.6	1.1	-0.3
Preferred, LD=18	-2.8	-1.6	-4.2	-1.2	4.1	-1.4	0.6	1.4	1.3	1.9	-2.7	2.3	0.9	-0.3
Preferred, TD=5	-2.4	-2.0	-1.2	0.1	4.7	-1.9	-0.3	-0.3	1.0	0.8	-3.7	2.0	1.1	-0.4
Preferred, TD= $D_{95}/2$	-2.3	-2.0	-1.3	0.1	4.8	-1.8	-0.2	-0.4	1.0	0.8	-3.7	2.1	1.1	-0.4
Preferred, WG03	-6.6	-4.2	0.7	0.8	1.4	-0.2	1.2	-1.7	8.1	6.8	-0.8	5.4	3.5	-2.6

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