

Supplementary Materials: Fault Slip Model of the 2018 Mw 6.6 Hokkaido Eastern Iburi, Japan, Earthquake Estimated from Satellite Radar and GPS Measurements

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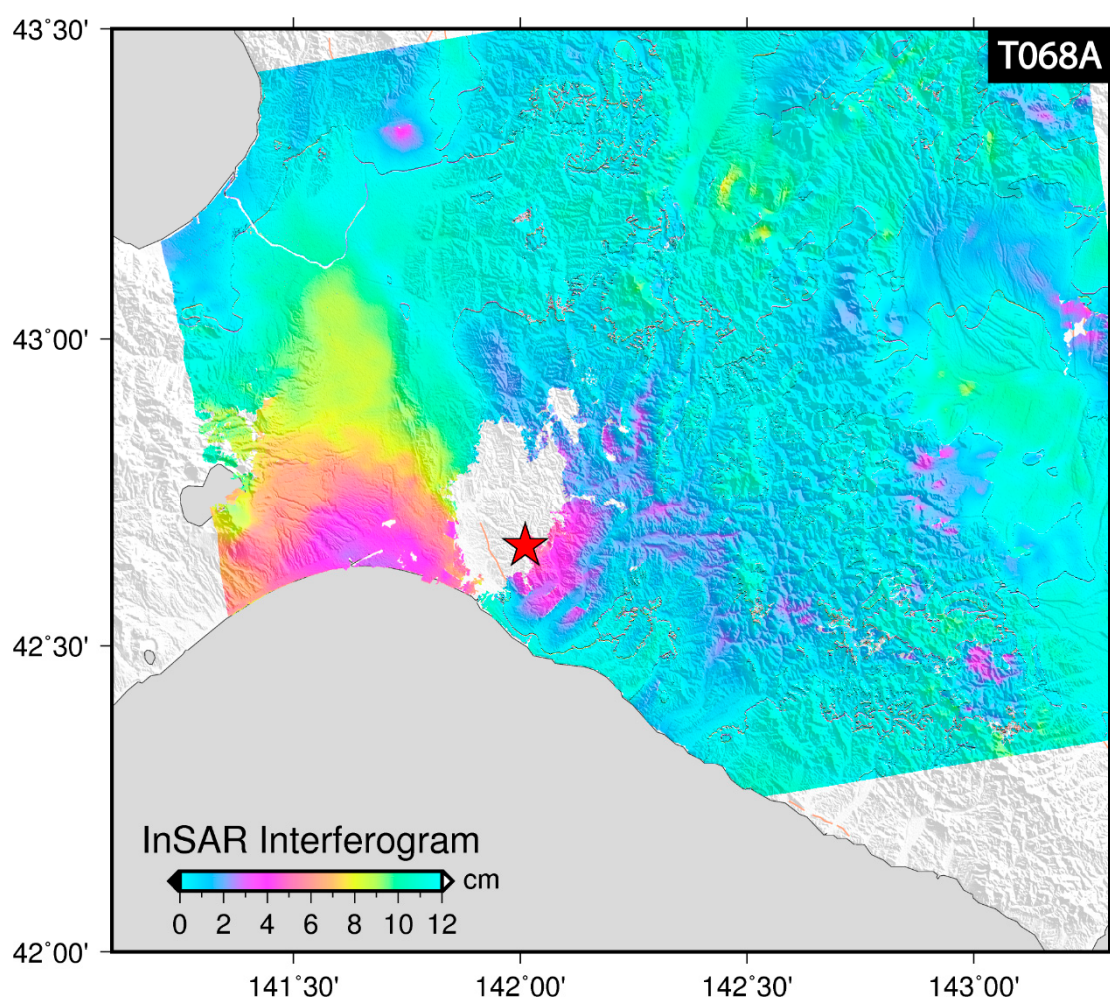


Figure 1. The coseismic interferogram obtained from ascending Sentinel-1A T068A track. The interferogram is unwrapped with an interval of 12 cm.

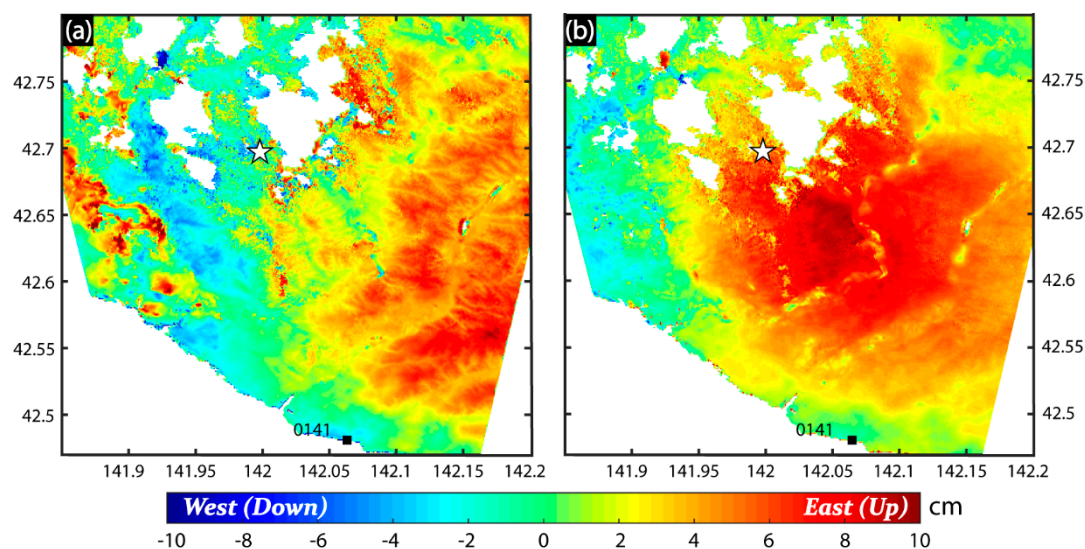


Figure 2. The 2.5D (quasi-eastward (a) and quasi-upward (b)) surface deformation field derived from decomposing ALOS-2 ascending and descending interferograms. The white star represents the main shock and the black square indicates the 0141 GPS Station.

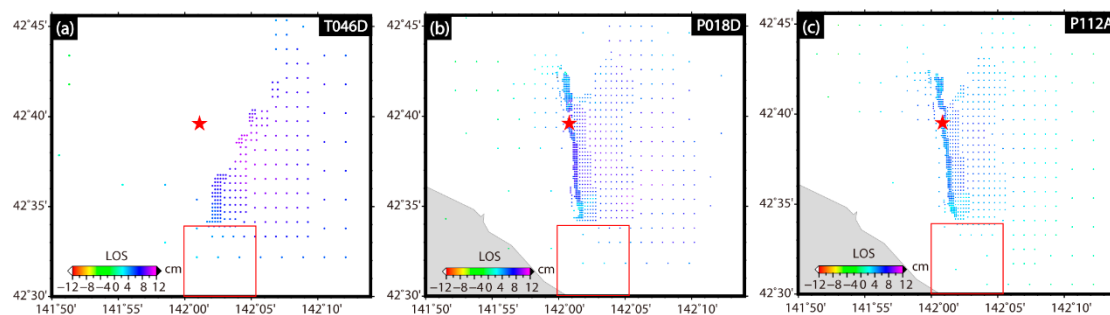


Figure 3. The downsampling results from the T046D (a), P018D (b) and P112A (c) track images based on the resolution-based quadtree sampling approach. The red rectangles indicate the regions corresponding to the maximum slip uncertainties produced during the inversion. The red star denotes the epicenter of the main shock.

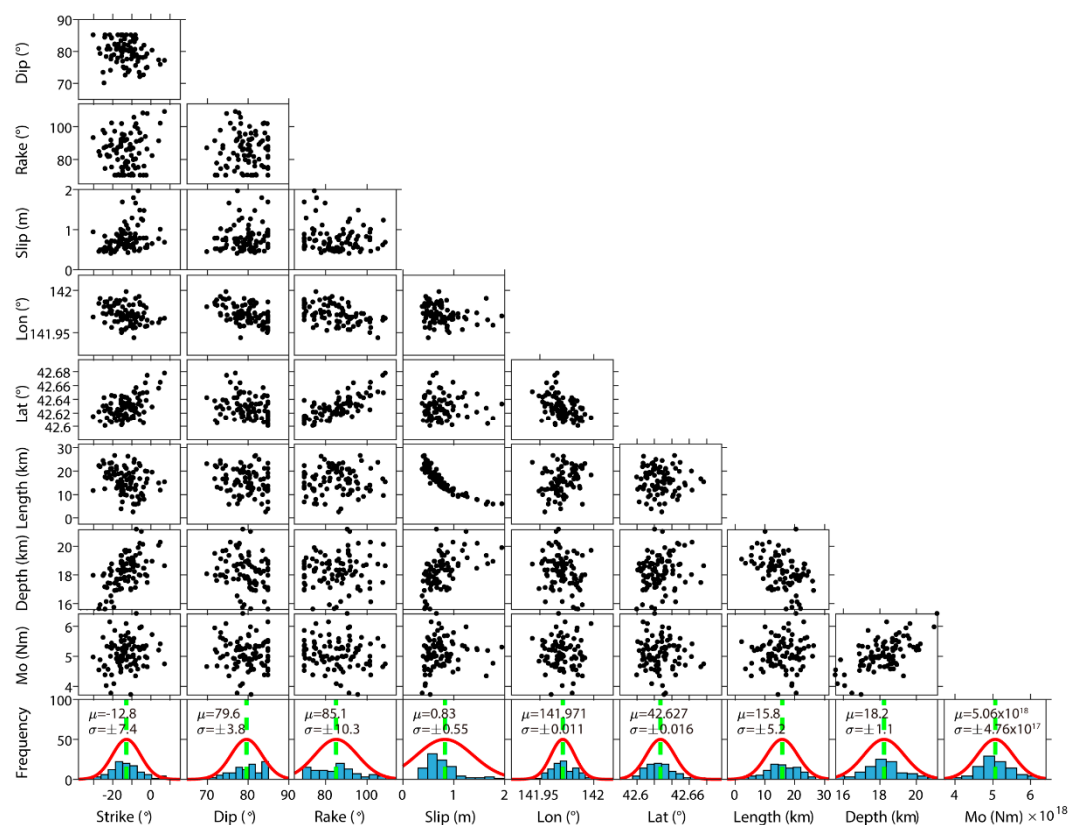


Figure 4. The mean values (μ) and standard deviations (σ) of the fault parameters calculated by the Monte Carlo method.

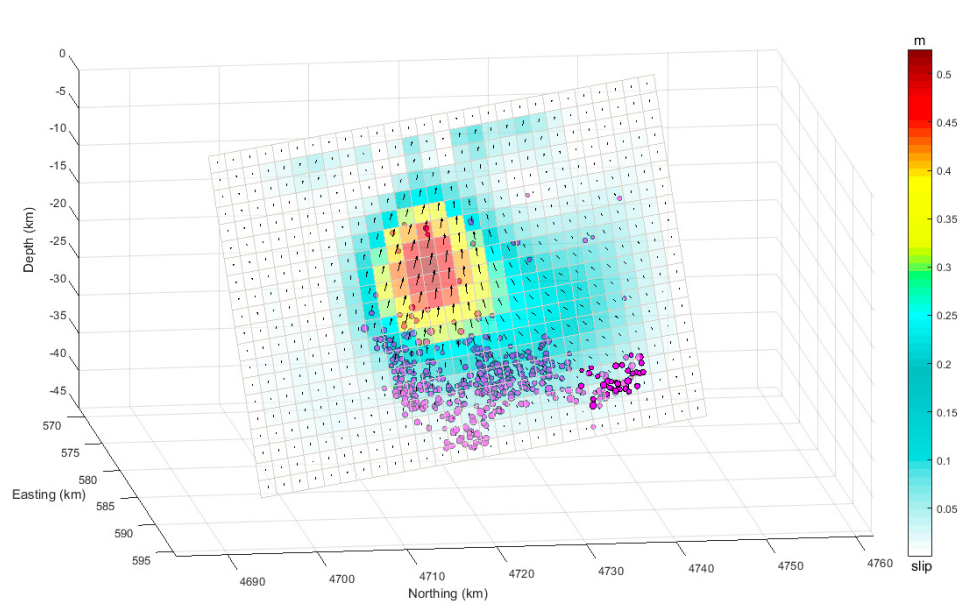


Figure 5. The 3D distributed slip model. The magenta dots indicate the relocated aftershocks within ~2 days after the main shock.

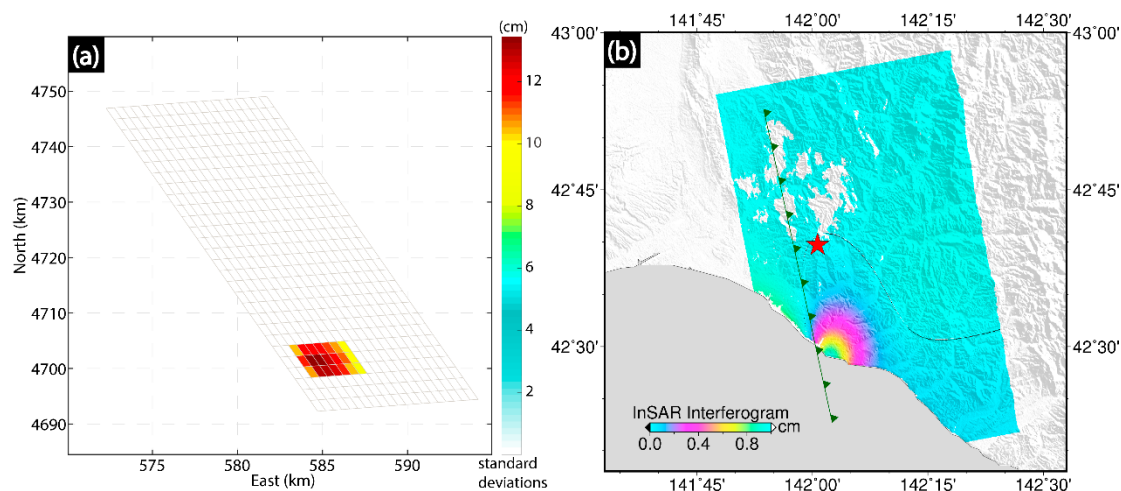


Figure 6. (a) The maximum slip uncertainty corresponding to Figure 6 that was used for forward modeling. (b) The forward modeling interferogram. The maximum slip uncertainty of the fault plane corresponds to the observations from ($\sim 42.50^{\circ}\text{N}$, 142.05°E). The red star denotes the epicenter of the main shock. The surface trace of the fault is from the distributed slip model of this study.

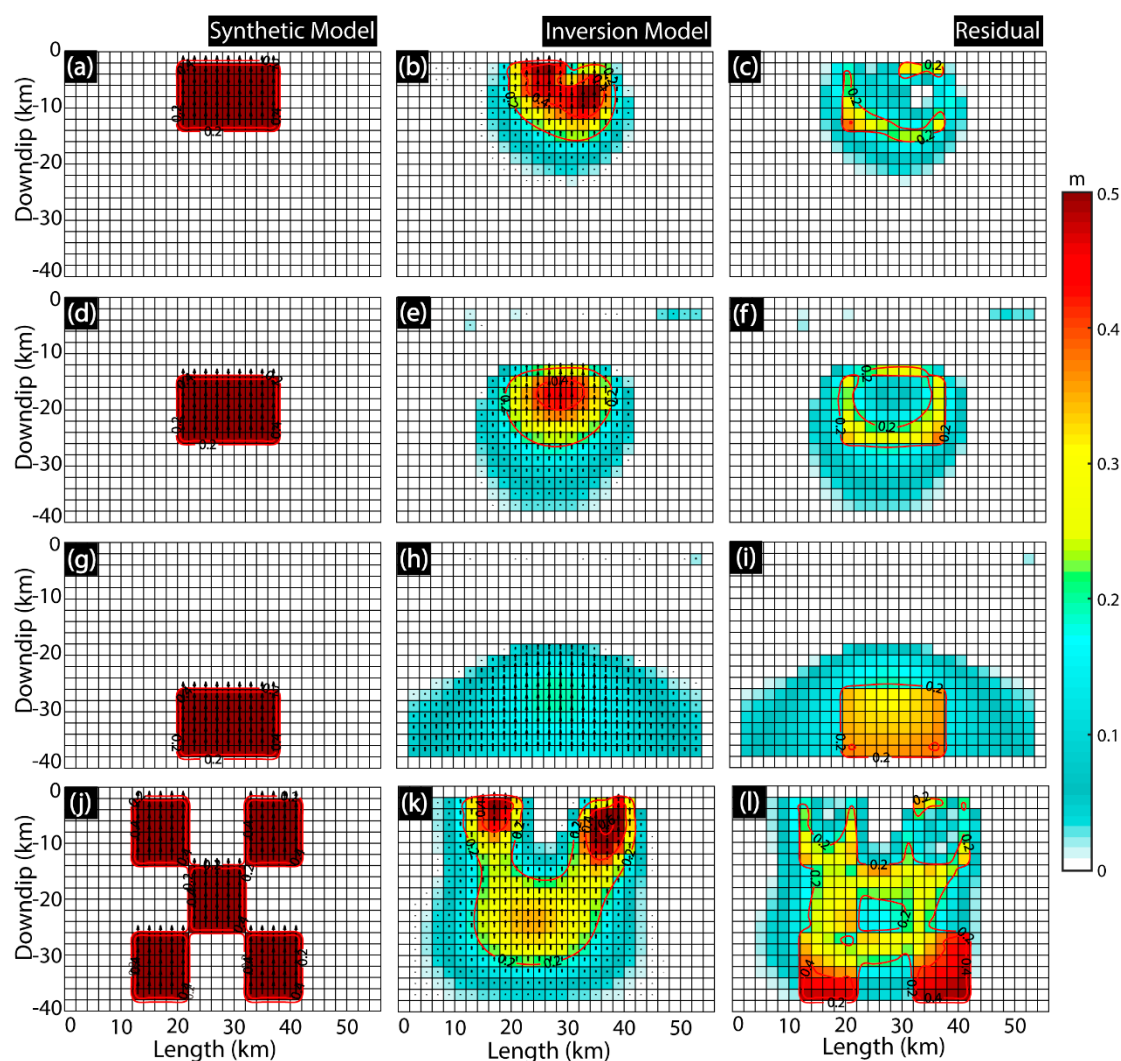


Figure 7. Results of the resolution tests. The resolution tests were carried out assuming a coseismic synthetic slip distribution characterized by slip only on shallow (a–c), middle (d–f), deep (g–i) and classical checkerboard distribution (j–l). The input slip models are (a), (d), (g) and (j), the corresponding inversion models are (b), (e), (h) and (k), and the residuals are (c), (f), (i) and (l).

Table S1. The coseismic displacements of 20 GPS stations derived from static GPS solutions.

Site	Latitude (°)	Longitude (°)	E (mm)	N (mm)	σ_E (mm)	σ_N (mm)	U (mm)	σ_U (mm)
0139	42.550	141.362	11.6	2.5	1.3	1.2	-2.8	13.2
0136	42.665	141.602	32.0	1.7	0.5	0.7	-10.9	5.6
0523	42.773	141.407	11.5	2.3	1.1	2.8	-1.5	7.9
0522	42.884	141.577	7.5	-2.2	2.2	2.3	-6.4	10.0
0014	42.983	141.731	-0.7	0.7	0.9	1.8	-2.1	7.2
0520	43.078	141.540	0.3	-0.6	1.8	1.3	2.7	4.4
0128	42.971	141.290	1.2	-0.4	2.0	6.5	8.8	8.3
0877	43.221	141.650	-2.5	1.0	0.9	1.4	-3.4	5.3
0516	43.248	141.891	-2.0	0.8	1.2	2.0	-4.0	3.3
0790	42.934	142.084	-6.3	4.2	1.2	1.7	3.4	6.6
0012	42.980	142.402	-1.7	0.2	1.0	1.1	-3.7	6.7
0880	43.165	142.567	-2.1	-3.3	1.7	2.9	-3.3	4.7
0885	42.891	142.532	-2.1	-1.3	1.5	1.5	-1.9	3.2
0133	42.727	142.296	18.4	0.9	0.9	1.4	16.8	2.4
0890	42.554	142.390	12.6	-7.4	1.3	1.9	5.2	3.3
0016	42.357	142.364	6.5	-10.0	1.0	1.7	2.4	5.4
0142	42.246	142.567	2.4	-4.5	1.0	1.7	-0.4	3.4
0891	42.272	142.768	0.1	-2.9	1.1	1.5	-2.8	3.8
0132	42.729	141.864	37.5	-20.2	1.9	1.7	-8.0	14.6
0141	42.481	142.060	11.5	-64.2	1.3	1.3	-37.1	4.0

Table S2. Constraints on the fault geometry for the nonlinear inversion.

	Latitude (°)	Longitude (°)	Strike (°)	Dip (°)	Depth (km)	length (km)	rake. (°)
Maximum	42.186	140.747	-30	50	0	0	70
Minimum	43.384	142.995	20	85	40	40	160

Table S3. The slip distribution on each patch of the inferred fault plane.

Easting (km)	Northing (km)	strike (°)	Dip (°)	Depth (km)	Len. (km)	Wid. (km)	SS. (m)	DS. (m)
593.454	4695.305	347.2	76	36.871	2	2	0.000	0.000
592.982	4695.198	347.2	76	34.931	2	2	0.000	0.000
592.511	4695.091	347.2	76	32.990	2	2	0.000	0.000
592.039	4694.983	347.2	76	31.049	2	2	0.000	0.000
591.567	4694.876	347.2	76	29.109	2	2	0.000	0.000
591.095	4694.768	347.2	76	27.168	2	2	0.000	0.000
590.624	4694.661	347.2	76	25.228	2	2	0.000	0.000
590.152	4694.553	347.2	76	23.287	2	2	0.000	0.000
589.680	4694.446	347.2	76	21.347	2	2	0.000	0.000
589.208	4694.339	347.2	76	19.406	2	2	0.000	0.000
588.736	4694.231	347.2	76	17.465	2	2	0.000	0.000
588.265	4694.124	347.2	76	15.525	2	2	0.000	0.000
587.793	4694.016	347.2	76	13.584	2	2	0.000	0.000
587.321	4693.909	347.2	76	11.644	2	2	0.000	0.000
586.849	4693.801	347.2	76	9.703	2	2	0.000	0.000
586.378	4693.694	347.2	76	7.762	2	2	0.000	0.000
585.906	4693.586	347.2	76	5.822	2	2	0.000	0.000
585.434	4693.479	347.2	76	3.881	2	2	0.000	0.000

584.962	4693.372	347.2	76	1.941	2	2	0.000	0.000
584.491	4693.264	347.2	76	0.000	2	2	0.000	0.000
593.010	4697.256	347.2	76	36.871	2	2	0.000	0.000
592.538	4697.148	347.2	76	34.931	2	2	-0.003	0.001
592.067	4697.041	347.2	76	32.990	2	2	-0.005	0.001
591.595	4696.933	347.2	76	31.049	2	2	-0.007	0.001
591.123	4696.826	347.2	76	29.109	2	2	-0.008	0.001
590.651	4696.718	347.2	76	27.168	2	2	-0.009	0.002
590.179	4696.611	347.2	76	25.228	2	2	-0.009	0.002
589.708	4696.503	347.2	76	23.287	2	2	-0.009	0.002
589.236	4696.396	347.2	76	21.347	2	2	-0.008	0.001
588.764	4696.289	347.2	76	19.406	2	2	-0.007	0.001
588.292	4696.181	347.2	76	17.465	2	2	-0.007	0.001
587.821	4696.074	347.2	76	15.525	2	2	-0.007	0.001
587.349	4695.966	347.2	76	13.584	2	2	-0.007	0.001
586.877	4695.859	347.2	76	11.644	2	2	-0.007	0.001
586.405	4695.751	347.2	76	9.703	2	2	-0.007	0.001
585.934	4695.644	347.2	76	7.762	2	2	-0.005	0.001
585.462	4695.537	347.2	76	5.822	2	2	-0.003	0.001
584.990	4695.429	347.2	76	3.881	2	2	0.000	0.001
584.518	4695.322	347.2	76	1.941	2	2	0.002	0.004
584.047	4695.214	347.2	76	0.000	2	2	0.000	0.000
592.566	4699.206	347.2	76	36.871	2	2	0.000	0.000
592.094	4699.098	347.2	76	34.931	2	2	-0.005	0.001
591.622	4698.991	347.2	76	32.990	2	2	-0.008	0.001
591.151	4698.883	347.2	76	31.049	2	2	-0.011	0.002
590.679	4698.776	347.2	76	29.109	2	2	-0.014	0.002
590.207	4698.668	347.2	76	27.168	2	2	-0.015	0.003
589.735	4698.561	347.2	76	25.228	2	2	-0.015	0.003
589.264	4698.454	347.2	76	23.287	2	2	-0.014	0.002
588.792	4698.346	347.2	76	21.347	2	2	-0.012	0.002
588.320	4698.239	347.2	76	19.406	2	2	-0.010	0.002
587.848	4698.131	347.2	76	17.465	2	2	-0.009	0.002
587.377	4698.024	347.2	76	15.525	2	2	-0.008	0.001
586.905	4697.916	347.2	76	13.584	2	2	-0.008	0.001
586.433	4697.809	347.2	76	11.644	2	2	-0.008	0.001
585.961	4697.702	347.2	76	9.703	2	2	-0.007	0.001
585.489	4697.594	347.2	76	7.762	2	2	-0.005	0.001
585.018	4697.487	347.2	76	5.822	2	2	-0.003	0.000
584.546	4697.379	347.2	76	3.881	2	2	0.002	0.003
584.074	4697.272	347.2	76	1.941	2	2	0.004	0.006
583.602	4697.164	347.2	76	0.000	2	2	0.000	0.000
592.122	4701.156	347.2	76	36.871	2	2	0.000	0.000
591.650	4701.048	347.2	76	34.931	2	2	-0.006	0.001
591.178	4700.941	347.2	76	32.990	2	2	-0.010	0.002
590.707	4700.833	347.2	76	31.049	2	2	-0.016	0.003
590.235	4700.726	347.2	76	29.109	2	2	-0.019	0.003
589.763	4700.618	347.2	76	27.168	2	2	-0.020	0.004
589.291	4700.511	347.2	76	25.228	2	2	-0.019	0.003
588.820	4700.404	347.2	76	23.287	2	2	-0.016	0.003
588.348	4700.296	347.2	76	21.347	2	2	-0.013	0.002
587.876	4700.189	347.2	76	19.406	2	2	-0.010	0.002
587.404	4700.081	347.2	76	17.465	2	2	-0.007	0.001
586.932	4699.974	347.2	76	15.525	2	2	-0.006	0.001
586.461	4699.866	347.2	76	13.584	2	2	-0.004	0.001
585.989	4699.759	347.2	76	11.644	2	2	-0.004	0.001
585.517	4699.652	347.2	76	9.703	2	2	-0.003	0.001
585.045	4699.544	347.2	76	7.762	2	2	-0.002	0.000

584.574	4699.437	347.2	76	5.822	2	2	0.000	0.002
584.102	4699.329	347.2	76	3.881	2	2	0.005	0.009
583.630	4699.222	347.2	76	1.941	2	2	0.008	0.014
583.158	4699.114	347.2	76	0.000	2	2	0.000	0.000
591.678	4703.106	347.2	76	36.871	2	2	0.000	0.000
591.206	4702.998	347.2	76	34.931	2	2	-0.007	0.001
590.734	4702.891	347.2	76	32.990	2	2	-0.012	0.002
590.262	4702.783	347.2	76	31.049	2	2	-0.017	0.003
589.791	4702.676	347.2	76	29.109	2	2	-0.020	0.004
589.319	4702.569	347.2	76	27.168	2	2	-0.021	0.004
588.847	4702.461	347.2	76	25.228	2	2	-0.019	0.003
588.375	4702.354	347.2	76	23.287	2	2	-0.015	0.003
587.904	4702.246	347.2	76	21.347	2	2	-0.010	0.002
587.432	4702.139	347.2	76	19.406	2	2	-0.006	0.001
586.960	4702.031	347.2	76	17.465	2	2	-0.003	0.001
586.488	4701.924	347.2	76	15.525	2	2	-0.001	0.000
586.017	4701.817	347.2	76	13.584	2	2	0.000	0.000
585.545	4701.709	347.2	76	11.644	2	2	0.000	0.000
585.073	4701.602	347.2	76	9.703	2	2	0.000	0.000
584.601	4701.494	347.2	76	7.762	2	2	0.000	0.000
584.130	4701.387	347.2	76	5.822	2	2	0.004	0.007
583.658	4701.279	347.2	76	3.881	2	2	0.011	0.019
583.186	4701.172	347.2	76	1.941	2	2	0.015	0.027
582.714	4701.064	347.2	76	0.000	2	2	0.000	0.000
591.234	4705.056	347.2	76	36.871	2	2	0.000	0.000
590.762	4704.948	347.2	76	34.931	2	2	-0.007	0.001
590.290	4704.841	347.2	76	32.990	2	2	-0.012	0.002
589.818	4704.734	347.2	76	31.049	2	2	-0.017	0.003
589.347	4704.626	347.2	76	29.109	2	2	-0.020	0.003
588.875	4704.519	347.2	76	27.168	2	2	-0.019	0.003
588.403	4704.411	347.2	76	25.228	2	2	-0.016	0.003
587.931	4704.304	347.2	76	23.287	2	2	-0.009	0.005
587.460	4704.196	347.2	76	21.347	2	2	-0.003	0.007
586.988	4704.089	347.2	76	19.406	2	2	0.002	0.008
586.516	4703.981	347.2	76	17.465	2	2	0.004	0.007
586.044	4703.874	347.2	76	15.525	2	2	0.002	0.003
585.573	4703.767	347.2	76	13.584	2	2	0.000	0.000
585.101	4703.659	347.2	76	11.644	2	2	0.000	0.000
584.629	4703.552	347.2	76	9.703	2	2	0.000	0.000
584.157	4703.444	347.2	76	7.762	2	2	0.000	0.000
583.685	4703.337	347.2	76	5.822	2	2	0.006	0.011
583.214	4703.229	347.2	76	3.881	2	2	0.018	0.030
582.742	4703.122	347.2	76	1.941	2	2	0.027	0.047
582.270	4703.015	347.2	76	0.000	2	2	0.000	0.000
590.790	4707.006	347.2	76	36.871	2	2	0.000	0.000
590.318	4706.898	347.2	76	34.931	2	2	-0.007	0.001
589.846	4706.791	347.2	76	32.990	2	2	-0.011	0.002
589.374	4706.684	347.2	76	31.049	2	2	-0.016	0.003
588.903	4706.576	347.2	76	29.109	2	2	-0.018	0.003
588.431	4706.469	347.2	76	27.168	2	2	-0.014	0.008
587.959	4706.361	347.2	76	25.228	2	2	-0.005	0.016
587.487	4706.254	347.2	76	23.287	2	2	0.006	0.025
587.015	4706.146	347.2	76	21.347	2	2	0.016	0.033
586.544	4706.039	347.2	76	19.406	2	2	0.022	0.038
586.072	4705.932	347.2	76	17.465	2	2	0.022	0.039
585.600	4705.824	347.2	76	15.525	2	2	0.019	0.033
585.128	4705.717	347.2	76	13.584	2	2	0.013	0.022
584.657	4705.609	347.2	76	11.644	2	2	0.005	0.008

584.185	4705.502	347.2	76	9.703	2	2	0.000	0.000
583.713	4705.394	347.2	76	7.762	2	2	0.000	0.000
583.241	4705.287	347.2	76	5.822	2	2	0.006	0.010
582.770	4705.180	347.2	76	3.881	2	2	0.018	0.031
582.298	4705.072	347.2	76	1.941	2	2	0.033	0.057
581.826	4704.965	347.2	76	0.000	2	2	0.000	0.000
590.346	4708.956	347.2	76	36.871	2	2	0.000	0.000
589.874	4708.849	347.2	76	34.931	2	2	-0.006	0.001
589.402	4708.741	347.2	76	32.990	2	2	-0.010	0.002
588.930	4708.634	347.2	76	31.049	2	2	-0.014	0.004
588.458	4708.526	347.2	76	29.109	2	2	-0.012	0.012
587.987	4708.419	347.2	76	27.168	2	2	-0.002	0.026
587.515	4708.311	347.2	76	25.228	2	2	0.012	0.043
587.043	4708.204	347.2	76	23.287	2	2	0.030	0.063
586.571	4708.096	347.2	76	21.347	2	2	0.046	0.082
586.100	4707.989	347.2	76	19.406	2	2	0.055	0.095
585.628	4707.882	347.2	76	17.465	2	2	0.058	0.100
585.156	4707.774	347.2	76	15.525	2	2	0.053	0.092
584.684	4707.667	347.2	76	13.584	2	2	0.042	0.073
584.213	4707.559	347.2	76	11.644	2	2	0.027	0.046
583.741	4707.452	347.2	76	9.703	2	2	0.011	0.018
583.269	4707.344	347.2	76	7.762	2	2	0.000	0.000
582.797	4707.237	347.2	76	5.822	2	2	0.001	0.003
582.326	4707.130	347.2	76	3.881	2	2	0.011	0.019
581.854	4707.022	347.2	76	1.941	2	2	0.024	0.041
581.382	4706.915	347.2	76	0.000	2	2	0.000	0.000
589.901	4710.906	347.2	76	36.871	2	2	0.000	0.000
589.430	4710.799	347.2	76	34.931	2	2	-0.006	0.001
588.958	4710.691	347.2	76	32.990	2	2	-0.010	0.002
588.486	4710.584	347.2	76	31.049	2	2	-0.011	0.012
588.014	4710.476	347.2	76	29.109	2	2	-0.004	0.029
587.543	4710.369	347.2	76	27.168	2	2	0.011	0.054
587.071	4710.261	347.2	76	25.228	2	2	0.033	0.084
586.599	4710.154	347.2	76	23.287	2	2	0.059	0.117
586.127	4710.047	347.2	76	21.347	2	2	0.083	0.148
585.656	4709.939	347.2	76	19.406	2	2	0.100	0.173
585.184	4709.832	347.2	76	17.465	2	2	0.106	0.184
584.712	4709.724	347.2	76	15.525	2	2	0.103	0.178
584.240	4709.617	347.2	76	13.584	2	2	0.088	0.152
583.768	4709.509	347.2	76	11.644	2	2	0.063	0.109
583.297	4709.402	347.2	76	9.703	2	2	0.034	0.059
582.825	4709.295	347.2	76	7.762	2	2	0.008	0.015
582.353	4709.187	347.2	76	5.822	2	2	0.000	0.000
581.881	4709.080	347.2	76	3.881	2	2	-0.001	0.000
581.410	4708.972	347.2	76	1.941	2	2	0.014	0.024
580.938	4708.865	347.2	76	0.000	2	2	0.000	0.000
589.457	4712.856	347.2	76	36.871	2	2	0.000	0.000
588.986	4712.749	347.2	76	34.931	2	2	-0.007	0.001
588.514	4712.641	347.2	76	32.990	2	2	-0.010	0.006
588.042	4712.534	347.2	76	31.049	2	2	-0.009	0.023
587.570	4712.426	347.2	76	29.109	2	2	0.001	0.051
587.099	4712.319	347.2	76	27.168	2	2	0.021	0.088
586.627	4712.212	347.2	76	25.228	2	2	0.050	0.132
586.155	4712.104	347.2	76	23.287	2	2	0.084	0.179
585.683	4711.997	347.2	76	21.347	2	2	0.118	0.224
585.211	4711.889	347.2	76	19.406	2	2	0.147	0.259
584.740	4711.782	347.2	76	17.465	2	2	0.161	0.279
584.268	4711.674	347.2	76	15.525	2	2	0.160	0.277

583.796	4711.567	347.2	76	13.584	2	2	0.143	0.248
583.324	4711.459	347.2	76	11.644	2	2	0.111	0.192
582.853	4711.352	347.2	76	9.703	2	2	0.068	0.117
582.381	4711.245	347.2	76	7.762	2	2	0.024	0.041
581.909	4711.137	347.2	76	5.822	2	2	0.000	0.000
581.437	4711.030	347.2	76	3.881	2	2	-0.020	0.003
580.966	4710.922	347.2	76	1.941	2	2	-0.057	0.010
580.494	4710.815	347.2	76	0.000	2	2	0.000	0.000
589.013	4714.806	347.2	76	36.871	2	2	0.000	0.000
588.541	4714.699	347.2	76	34.931	2	2	-0.008	0.001
588.070	4714.591	347.2	76	32.990	2	2	-0.011	0.012
587.598	4714.484	347.2	76	31.049	2	2	-0.009	0.037
587.126	4714.376	347.2	76	29.109	2	2	0.002	0.074
586.654	4714.269	347.2	76	27.168	2	2	0.025	0.122
586.183	4714.162	347.2	76	25.228	2	2	0.057	0.179
585.711	4714.054	347.2	76	23.287	2	2	0.097	0.238
585.239	4713.947	347.2	76	21.347	2	2	0.139	0.295
584.767	4713.839	347.2	76	19.406	2	2	0.178	0.341
584.296	4713.732	347.2	76	17.465	2	2	0.205	0.369
583.824	4713.624	347.2	76	15.525	2	2	0.215	0.372
583.352	4713.517	347.2	76	13.584	2	2	0.198	0.344
582.880	4713.410	347.2	76	11.644	2	2	0.163	0.282
582.409	4713.302	347.2	76	9.703	2	2	0.111	0.192
581.937	4713.195	347.2	76	7.762	2	2	0.052	0.089
581.465	4713.087	347.2	76	5.822	2	2	0.000	0.000
580.993	4712.980	347.2	76	3.881	2	2	0.000	0.000
580.521	4712.872	347.2	76	1.941	2	2	0.000	0.000
580.050	4712.765	347.2	76	0.000	2	2	0.000	0.000
588.569	4716.756	347.2	76	36.871	2	2	0.000	0.000
588.097	4716.649	347.2	76	34.931	2	2	-0.010	0.003
587.626	4716.541	347.2	76	32.990	2	2	-0.013	0.018
587.154	4716.434	347.2	76	31.049	2	2	-0.014	0.048
586.682	4716.327	347.2	76	29.109	2	2	-0.004	0.093
586.210	4716.219	347.2	76	27.168	2	2	0.017	0.150
585.739	4716.112	347.2	76	25.228	2	2	0.050	0.216
585.267	4716.004	347.2	76	23.287	2	2	0.091	0.284
584.795	4715.897	347.2	76	21.347	2	2	0.137	0.349
584.323	4715.789	347.2	76	19.406	2	2	0.182	0.403
583.852	4715.682	347.2	76	17.465	2	2	0.217	0.437
583.380	4715.574	347.2	76	15.525	2	2	0.237	0.445
582.908	4715.467	347.2	76	13.584	2	2	0.237	0.418
582.436	4715.360	347.2	76	11.644	2	2	0.206	0.357
581.964	4715.252	347.2	76	9.703	2	2	0.153	0.266
581.493	4715.145	347.2	76	7.762	2	2	0.092	0.159
581.021	4715.037	347.2	76	5.822	2	2	0.037	0.063
580.549	4714.930	347.2	76	3.881	2	2	0.000	0.000
580.077	4714.822	347.2	76	1.941	2	2	0.014	0.025
579.606	4714.715	347.2	76	0.000	2	2	0.000	0.000
588.125	4718.706	347.2	76	36.871	2	2	0.000	0.000
587.653	4718.599	347.2	76	34.931	2	2	-0.012	0.005
587.182	4718.491	347.2	76	32.990	2	2	-0.019	0.022
586.710	4718.384	347.2	76	31.049	2	2	-0.024	0.056
586.238	4718.277	347.2	76	29.109	2	2	-0.019	0.106
585.766	4718.169	347.2	76	27.168	2	2	-0.003	0.167
585.294	4718.062	347.2	76	25.228	2	2	0.026	0.237
584.823	4717.954	347.2	76	23.287	2	2	0.064	0.310
584.351	4717.847	347.2	76	21.347	2	2	0.108	0.378
583.879	4717.739	347.2	76	19.406	2	2	0.152	0.434

583.407	4717.632	347.2	76	17.465	2	2	0.190	0.470
582.936	4717.525	347.2	76	15.525	2	2	0.216	0.479
582.464	4717.417	347.2	76	13.584	2	2	0.223	0.454
581.992	4717.310	347.2	76	11.644	2	2	0.209	0.395
581.520	4717.202	347.2	76	9.703	2	2	0.177	0.306
581.049	4717.095	347.2	76	7.762	2	2	0.118	0.204
580.577	4716.987	347.2	76	5.822	2	2	0.067	0.116
580.105	4716.880	347.2	76	3.881	2	2	0.040	0.070
579.633	4716.773	347.2	76	1.941	2	2	0.054	0.094
579.162	4716.665	347.2	76	0.000	2	2	0.000	0.000
587.681	4720.656	347.2	76	36.871	2	2	0.000	0.000
587.209	4720.549	347.2	76	34.931	2	2	-0.016	0.006
586.737	4720.442	347.2	76	32.990	2	2	-0.026	0.023
586.266	4720.334	347.2	76	31.049	2	2	-0.038	0.059
585.794	4720.227	347.2	76	29.109	2	2	-0.040	0.109
585.322	4720.119	347.2	76	27.168	2	2	-0.032	0.171
584.850	4720.012	347.2	76	25.228	2	2	-0.012	0.240
584.379	4719.904	347.2	76	23.287	2	2	0.018	0.311
583.907	4719.797	347.2	76	21.347	2	2	0.055	0.377
583.435	4719.689	347.2	76	19.406	2	2	0.094	0.429
582.963	4719.582	347.2	76	17.465	2	2	0.128	0.461
582.492	4719.475	347.2	76	15.525	2	2	0.152	0.466
582.020	4719.367	347.2	76	13.584	2	2	0.162	0.439
581.548	4719.260	347.2	76	11.644	2	2	0.154	0.380
581.076	4719.152	347.2	76	9.703	2	2	0.130	0.293
580.605	4719.045	347.2	76	7.762	2	2	0.095	0.192
580.133	4718.937	347.2	76	5.822	2	2	0.054	0.096
579.661	4718.830	347.2	76	3.881	2	2	0.002	0.018
579.189	4718.723	347.2	76	1.941	2	2	-0.041	0.007
578.717	4718.615	347.2	76	0.000	2	2	0.000	0.000
587.237	4722.606	347.2	76	36.871	2	2	0.000	0.000
586.765	4722.499	347.2	76	34.931	2	2	-0.020	0.006
586.293	4722.392	347.2	76	32.990	2	2	-0.035	0.023
585.822	4722.284	347.2	76	31.049	2	2	-0.054	0.057
585.350	4722.177	347.2	76	29.109	2	2	-0.065	0.104
584.878	4722.069	347.2	76	27.168	2	2	-0.067	0.162
584.406	4721.962	347.2	76	25.228	2	2	-0.057	0.226
583.935	4721.854	347.2	76	23.287	2	2	-0.037	0.291
583.463	4721.747	347.2	76	21.347	2	2	-0.010	0.348
582.991	4721.640	347.2	76	19.406	2	2	0.020	0.391
582.519	4721.532	347.2	76	17.465	2	2	0.047	0.414
582.047	4721.425	347.2	76	15.525	2	2	0.066	0.410
581.576	4721.317	347.2	76	13.584	2	2	0.074	0.377
581.104	4721.210	347.2	76	11.644	2	2	0.070	0.317
580.632	4721.102	347.2	76	9.703	2	2	0.056	0.235
580.160	4720.995	347.2	76	7.762	2	2	0.035	0.144
579.689	4720.888	347.2	76	5.822	2	2	0.017	0.062
579.217	4720.780	347.2	76	3.881	2	2	0.000	0.000
578.745	4720.673	347.2	76	1.941	2	2	0.000	0.000
578.273	4720.565	347.2	76	0.000	2	2	0.000	0.000
586.793	4724.557	347.2	76	36.871	2	2	0.000	0.000
586.321	4724.449	347.2	76	34.931	2	2	-0.024	0.005
585.849	4724.342	347.2	76	32.990	2	2	-0.043	0.020
585.378	4724.234	347.2	76	31.049	2	2	-0.070	0.051
584.906	4724.127	347.2	76	29.109	2	2	-0.090	0.093
584.434	4724.019	347.2	76	27.168	2	2	-0.101	0.144
583.962	4723.912	347.2	76	25.228	2	2	-0.102	0.200
583.490	4723.805	347.2	76	23.287	2	2	-0.092	0.254

583.019	4723.697	347.2	76	21.347	2	2	-0.074	0.300
582.547	4723.590	347.2	76	19.406	2	2	-0.053	0.331
582.075	4723.482	347.2	76	17.465	2	2	-0.031	0.341
581.603	4723.375	347.2	76	15.525	2	2	-0.015	0.327
581.132	4723.267	347.2	76	13.584	2	2	-0.006	0.288
580.660	4723.160	347.2	76	11.644	2	2	-0.005	0.229
580.188	4723.052	347.2	76	9.703	2	2	-0.006	0.160
579.716	4722.945	347.2	76	7.762	2	2	-0.002	0.098
579.245	4722.838	347.2	76	5.822	2	2	0.023	0.064
578.773	4722.730	347.2	76	3.881	2	2	0.036	0.063
578.301	4722.623	347.2	76	1.941	2	2	0.058	0.100
577.829	4722.515	347.2	76	0.000	2	2	0.000	0.000
586.349	4726.507	347.2	76	36.871	2	2	0.000	0.000
585.877	4726.399	347.2	76	34.931	2	2	-0.026	0.005
585.405	4726.292	347.2	76	32.990	2	2	-0.049	0.016
584.933	4726.184	347.2	76	31.049	2	2	-0.083	0.042
584.462	4726.077	347.2	76	29.109	2	2	-0.111	0.078
583.990	4725.969	347.2	76	27.168	2	2	-0.131	0.121
583.518	4725.862	347.2	76	25.228	2	2	-0.141	0.166
583.046	4725.755	347.2	76	23.287	2	2	-0.139	0.209
582.575	4725.647	347.2	76	21.347	2	2	-0.128	0.243
582.103	4725.540	347.2	76	19.406	2	2	-0.110	0.262
581.631	4725.432	347.2	76	17.465	2	2	-0.091	0.261
581.159	4725.325	347.2	76	15.525	2	2	-0.072	0.239
580.688	4725.217	347.2	76	13.584	2	2	-0.058	0.196
580.216	4725.110	347.2	76	11.644	2	2	-0.046	0.141
579.744	4725.003	347.2	76	9.703	2	2	-0.033	0.087
579.272	4724.895	347.2	76	7.762	2	2	-0.014	0.054
578.800	4724.788	347.2	76	5.822	2	2	0.018	0.061
578.329	4724.680	347.2	76	3.881	2	2	0.054	0.094
577.857	4724.573	347.2	76	1.941	2	2	0.072	0.124
577.385	4724.465	347.2	76	0.000	2	2	0.000	0.000
585.905	4728.457	347.2	76	36.871	2	2	0.000	0.000
585.433	4728.349	347.2	76	34.931	2	2	-0.025	0.004
584.961	4728.242	347.2	76	32.990	2	2	-0.054	0.013
584.489	4728.134	347.2	76	31.049	2	2	-0.092	0.034
584.018	4728.027	347.2	76	29.109	2	2	-0.127	0.062
583.546	4727.920	347.2	76	27.168	2	2	-0.153	0.097
583.074	4727.812	347.2	76	25.228	2	2	-0.168	0.132
582.602	4727.705	347.2	76	23.287	2	2	-0.172	0.165
582.131	4727.597	347.2	76	21.347	2	2	-0.164	0.188
581.659	4727.490	347.2	76	19.406	2	2	-0.147	0.198
581.187	4727.382	347.2	76	17.465	2	2	-0.125	0.190
580.715	4727.275	347.2	76	15.525	2	2	-0.100	0.163
580.243	4727.167	347.2	76	13.584	2	2	-0.076	0.122
579.772	4727.060	347.2	76	11.644	2	2	-0.053	0.074
579.300	4726.953	347.2	76	9.703	2	2	-0.030	0.033
578.828	4726.845	347.2	76	7.762	2	2	-0.008	0.015
578.356	4726.738	347.2	76	5.822	2	2	0.017	0.030
577.885	4726.630	347.2	76	3.881	2	2	0.024	0.060
577.413	4726.523	347.2	76	1.941	2	2	0.017	0.080
576.941	4726.415	347.2	76	0.000	2	2	0.000	0.000
585.461	4730.407	347.2	76	36.871	2	2	0.000	0.000
584.989	4730.299	347.2	76	34.931	2	2	-0.027	0.005
584.517	4730.192	347.2	76	32.990	2	2	-0.055	0.010
584.045	4730.084	347.2	76	31.049	2	2	-0.097	0.026
583.574	4729.977	347.2	76	29.109	2	2	-0.135	0.048
583.102	4729.870	347.2	76	27.168	2	2	-0.165	0.075

582.630	4729.762	347.2	76	25.228	2	2	-0.184	0.103
582.158	4729.655	347.2	76	23.287	2	2	-0.190	0.127
581.686	4729.547	347.2	76	21.347	2	2	-0.183	0.143
581.215	4729.440	347.2	76	19.406	2	2	-0.164	0.146
580.743	4729.332	347.2	76	17.465	2	2	-0.137	0.136
580.271	4729.225	347.2	76	15.525	2	2	-0.105	0.110
579.799	4729.118	347.2	76	13.584	2	2	-0.071	0.074
579.328	4729.010	347.2	76	11.644	2	2	-0.040	0.036
578.856	4728.903	347.2	76	9.703	2	2	-0.013	0.007
578.384	4728.795	347.2	76	7.762	2	2	0.000	0.000
577.912	4728.688	347.2	76	5.822	2	2	0.010	0.017
577.441	4728.580	347.2	76	3.881	2	2	0.022	0.039
576.969	4728.473	347.2	76	1.941	2	2	0.041	0.072
576.497	4728.366	347.2	76	0.000	2	2	0.000	0.000
585.016	4732.357	347.2	76	36.871	2	2	0.000	0.000
584.545	4732.249	347.2	76	34.931	2	2	-0.024	0.004
584.073	4732.142	347.2	76	32.990	2	2	-0.054	0.010
583.601	4732.035	347.2	76	31.049	2	2	-0.096	0.021
583.129	4731.927	347.2	76	29.109	2	2	-0.136	0.038
582.658	4731.820	347.2	76	27.168	2	2	-0.168	0.058
582.186	4731.712	347.2	76	25.228	2	2	-0.188	0.080
581.714	4731.605	347.2	76	23.287	2	2	-0.194	0.098
581.242	4731.497	347.2	76	21.347	2	2	-0.187	0.109
580.771	4731.390	347.2	76	19.406	2	2	-0.167	0.111
580.299	4731.282	347.2	76	17.465	2	2	-0.136	0.101
579.827	4731.175	347.2	76	15.525	2	2	-0.099	0.080
579.355	4731.068	347.2	76	13.584	2	2	-0.059	0.052
578.884	4730.960	347.2	76	11.644	2	2	-0.024	0.024
578.412	4730.853	347.2	76	9.703	2	2	0.003	0.005
577.940	4730.745	347.2	76	7.762	2	2	0.004	0.006
577.468	4730.638	347.2	76	5.822	2	2	0.016	0.028
576.996	4730.530	347.2	76	3.881	2	2	0.029	0.050
576.525	4730.423	347.2	76	1.941	2	2	0.057	0.099
576.053	4730.316	347.2	76	0.000	2	2	0.000	0.000
584.572	4734.307	347.2	76	36.871	2	2	0.000	0.000
584.101	4734.199	347.2	76	34.931	2	2	-0.025	0.004
583.629	4734.092	347.2	76	32.990	2	2	-0.051	0.009
583.157	4733.985	347.2	76	31.049	2	2	-0.092	0.017
582.685	4733.877	347.2	76	29.109	2	2	-0.130	0.030
582.214	4733.770	347.2	76	27.168	2	2	-0.161	0.046
581.742	4733.662	347.2	76	25.228	2	2	-0.181	0.063
581.270	4733.555	347.2	76	23.287	2	2	-0.188	0.077
580.798	4733.447	347.2	76	21.347	2	2	-0.181	0.086
580.326	4733.340	347.2	76	19.406	2	2	-0.161	0.088
579.855	4733.233	347.2	76	17.465	2	2	-0.130	0.081
579.383	4733.125	347.2	76	15.525	2	2	-0.092	0.065
578.911	4733.018	347.2	76	13.584	2	2	-0.051	0.045
578.439	4732.910	347.2	76	11.644	2	2	-0.017	0.025
577.968	4732.803	347.2	76	9.703	2	2	0.008	0.013
577.496	4732.695	347.2	76	7.762	2	2	0.009	0.016
577.024	4732.588	347.2	76	5.822	2	2	0.019	0.032
576.552	4732.481	347.2	76	3.881	2	2	0.028	0.048
576.081	4732.373	347.2	76	1.941	2	2	0.041	0.071
575.609	4732.266	347.2	76	0.000	2	2	0.000	0.000
584.128	4736.257	347.2	76	36.871	2	2	0.000	0.000
583.657	4736.150	347.2	76	34.931	2	2	-0.022	0.004
583.185	4736.042	347.2	76	32.990	2	2	-0.046	0.008
582.713	4735.935	347.2	76	31.049	2	2	-0.083	0.015

582.241	4735.827	347.2	76	29.109	2	2	-0.118	0.025
581.769	4735.720	347.2	76	27.168	2	2	-0.147	0.037
581.298	4735.612	347.2	76	25.228	2	2	-0.166	0.051
580.826	4735.505	347.2	76	23.287	2	2	-0.173	0.063
580.354	4735.398	347.2	76	21.347	2	2	-0.167	0.071
579.882	4735.290	347.2	76	19.406	2	2	-0.149	0.074
579.411	4735.183	347.2	76	17.465	2	2	-0.121	0.069
578.939	4735.075	347.2	76	15.525	2	2	-0.087	0.059
578.467	4734.968	347.2	76	13.584	2	2	-0.050	0.044
577.995	4734.860	347.2	76	11.644	2	2	-0.019	0.029
577.524	4734.753	347.2	76	9.703	2	2	0.005	0.017
577.052	4734.645	347.2	76	7.762	2	2	0.008	0.014
576.580	4734.538	347.2	76	5.822	2	2	0.011	0.020
576.108	4734.431	347.2	76	3.881	2	2	0.013	0.023
575.637	4734.323	347.2	76	1.941	2	2	0.018	0.030
575.165	4734.216	347.2	76	0.000	2	2	0.000	0.000
583.684	4738.207	347.2	76	36.871	2	2	0.000	0.000
583.212	4738.100	347.2	76	34.931	2	2	-0.019	0.003
582.741	4737.992	347.2	76	32.990	2	2	-0.039	0.007
582.269	4737.885	347.2	76	31.049	2	2	-0.070	0.012
581.797	4737.777	347.2	76	29.109	2	2	-0.101	0.020
581.325	4737.670	347.2	76	27.168	2	2	-0.126	0.030
580.854	4737.562	347.2	76	25.228	2	2	-0.143	0.041
580.382	4737.455	347.2	76	23.287	2	2	-0.150	0.051
579.910	4737.348	347.2	76	21.347	2	2	-0.146	0.059
579.438	4737.240	347.2	76	19.406	2	2	-0.132	0.062
578.967	4737.133	347.2	76	17.465	2	2	-0.110	0.061
578.495	4737.025	347.2	76	15.525	2	2	-0.083	0.053
578.023	4736.918	347.2	76	13.584	2	2	-0.053	0.042
577.551	4736.810	347.2	76	11.644	2	2	-0.026	0.028
577.079	4736.703	347.2	76	9.703	2	2	-0.006	0.016
576.608	4736.596	347.2	76	7.762	2	2	0.004	0.008
576.136	4736.488	347.2	76	5.822	2	2	0.003	0.005
575.664	4736.381	347.2	76	3.881	2	2	0.002	0.004
575.192	4736.273	347.2	76	1.941	2	2	0.005	0.009
574.721	4736.166	347.2	76	0.000	2	2	0.000	0.000
583.240	4740.157	347.2	76	36.871	2	2	0.000	0.000
582.768	4740.050	347.2	76	34.931	2	2	-0.014	0.003
582.297	4739.942	347.2	76	32.990	2	2	-0.029	0.005
581.825	4739.835	347.2	76	31.049	2	2	-0.054	0.010
581.353	4739.727	347.2	76	29.109	2	2	-0.079	0.015
580.881	4739.620	347.2	76	27.168	2	2	-0.099	0.023
580.410	4739.513	347.2	76	25.228	2	2	-0.114	0.032
579.938	4739.405	347.2	76	23.287	2	2	-0.120	0.041
579.466	4739.298	347.2	76	21.347	2	2	-0.118	0.047
578.994	4739.190	347.2	76	19.406	2	2	-0.109	0.051
578.522	4739.083	347.2	76	17.465	2	2	-0.095	0.050
578.051	4738.975	347.2	76	15.525	2	2	-0.075	0.045
577.579	4738.868	347.2	76	13.584	2	2	-0.055	0.037
577.107	4738.760	347.2	76	11.644	2	2	-0.034	0.025
576.635	4738.653	347.2	76	9.703	2	2	-0.017	0.013
576.164	4738.546	347.2	76	7.762	2	2	-0.006	0.004
575.692	4738.438	347.2	76	5.822	2	2	0.000	0.000
575.220	4738.331	347.2	76	3.881	2	2	0.000	0.000
574.748	4738.223	347.2	76	1.941	2	2	0.000	0.000
574.277	4738.116	347.2	76	0.000	2	2	0.000	0.000
582.796	4742.107	347.2	76	36.871	2	2	0.000	0.000
582.324	4742.000	347.2	76	34.931	2	2	-0.007	0.001

581.853	4741.892	347.2	76	32.990	2	2	-0.019	0.003
581.381	4741.785	347.2	76	31.049	2	2	-0.036	0.006
580.909	4741.677	347.2	76	29.109	2	2	-0.054	0.010
580.437	4741.570	347.2	76	27.168	2	2	-0.069	0.016
579.965	4741.463	347.2	76	25.228	2	2	-0.079	0.022
579.494	4741.355	347.2	76	23.287	2	2	-0.084	0.029
579.022	4741.248	347.2	76	21.347	2	2	-0.084	0.034
578.550	4741.140	347.2	76	19.406	2	2	-0.080	0.038
578.078	4741.033	347.2	76	17.465	2	2	-0.072	0.038
577.607	4740.925	347.2	76	15.525	2	2	-0.061	0.035
577.135	4740.818	347.2	76	13.584	2	2	-0.049	0.028
576.663	4740.711	347.2	76	11.644	2	2	-0.036	0.019
576.191	4740.603	347.2	76	9.703	2	2	-0.024	0.010
575.720	4740.496	347.2	76	7.762	2	2	-0.013	0.003
575.248	4740.388	347.2	76	5.822	2	2	-0.003	0.001
574.776	4740.281	347.2	76	3.881	2	2	0.000	0.000
574.304	4740.173	347.2	76	1.941	2	2	0.001	0.001
573.832	4740.066	347.2	76	0.000	2	2	0.000	0.000
582.352	4744.057	347.2	76	36.871	2	2	0.000	0.000
581.880	4743.950	347.2	76	34.931	2	2	-0.004	0.001
581.408	4743.842	347.2	76	32.990	2	2	-0.009	0.002
580.937	4743.735	347.2	76	31.049	2	2	-0.019	0.003
580.465	4743.628	347.2	76	29.109	2	2	-0.029	0.005
579.993	4743.520	347.2	76	27.168	2	2	-0.038	0.009
579.521	4743.413	347.2	76	25.228	2	2	-0.044	0.013
579.050	4743.305	347.2	76	23.287	2	2	-0.048	0.017
578.578	4743.198	347.2	76	21.347	2	2	-0.049	0.020
578.106	4743.090	347.2	76	19.406	2	2	-0.047	0.023
577.634	4742.983	347.2	76	17.465	2	2	-0.044	0.023
577.163	4742.876	347.2	76	15.525	2	2	-0.040	0.021
576.691	4742.768	347.2	76	13.584	2	2	-0.035	0.017
576.219	4742.661	347.2	76	11.644	2	2	-0.029	0.012
575.747	4742.553	347.2	76	9.703	2	2	-0.022	0.007
575.275	4742.446	347.2	76	7.762	2	2	-0.015	0.003
574.804	4742.338	347.2	76	5.822	2	2	-0.008	0.001
574.332	4742.231	347.2	76	3.881	2	2	-0.003	0.001
573.860	4742.123	347.2	76	1.941	2	2	-0.001	0.003
573.388	4742.016	347.2	76	0.000	2	2	0.000	0.000
581.908	4746.007	347.2	76	36.871	2	2	0.000	0.000
581.436	4745.900	347.2	76	34.931	2	2	-0.002	0.000
580.964	4745.792	347.2	76	32.990	2	2	-0.003	0.000
580.493	4745.685	347.2	76	31.049	2	2	-0.007	0.001
580.021	4745.578	347.2	76	29.109	2	2	-0.012	0.002
579.549	4745.470	347.2	76	27.168	2	2	-0.017	0.004
579.077	4745.363	347.2	76	25.228	2	2	-0.021	0.006
578.606	4745.255	347.2	76	23.287	2	2	-0.022	0.008
578.134	4745.148	347.2	76	21.347	2	2	-0.023	0.010
577.662	4745.040	347.2	76	19.406	2	2	-0.023	0.011
577.190	4744.933	347.2	76	17.465	2	2	-0.023	0.012
576.718	4744.826	347.2	76	15.525	2	2	-0.021	0.011
576.247	4744.718	347.2	76	13.584	2	2	-0.019	0.009
575.775	4744.611	347.2	76	11.644	2	2	-0.017	0.006
575.303	4744.503	347.2	76	9.703	2	2	-0.016	0.004
574.831	4744.396	347.2	76	7.762	2	2	-0.012	0.003
574.360	4744.288	347.2	76	5.822	2	2	-0.009	0.003
573.888	4744.181	347.2	76	3.881	2	2	-0.006	0.003
573.416	4744.074	347.2	76	1.941	2	2	-0.005	0.004
572.944	4743.966	347.2	76	0.000	2	2	0.000	0.000

581.464	4747.957	347.2	76	36.871	2	2	0.000	0.000
580.992	4747.850	347.2	76	34.931	2	2	0.000	0.000
580.520	4747.743	347.2	76	32.990	2	2	0.000	0.000
580.048	4747.635	347.2	76	31.049	2	2	0.000	0.000
579.577	4747.528	347.2	76	29.109	2	2	0.000	0.000
579.105	4747.420	347.2	76	27.168	2	2	0.000	0.000
578.633	4747.313	347.2	76	25.228	2	2	0.000	0.000
578.161	4747.205	347.2	76	23.287	2	2	0.000	0.000
577.690	4747.098	347.2	76	21.347	2	2	0.000	0.000
577.218	4746.991	347.2	76	19.406	2	2	0.000	0.000
576.746	4746.883	347.2	76	17.465	2	2	0.000	0.000
576.274	4746.776	347.2	76	15.525	2	2	0.000	0.000
575.803	4746.668	347.2	76	13.584	2	2	0.000	0.000
575.331	4746.561	347.2	76	11.644	2	2	0.000	0.000
574.859	4746.453	347.2	76	9.703	2	2	0.000	0.000
574.387	4746.346	347.2	76	7.762	2	2	0.000	0.000
573.916	4746.238	347.2	76	5.822	2	2	0.000	0.000
573.444	4746.131	347.2	76	3.881	2	2	0.000	0.000
572.972	4746.024	347.2	76	1.941	2	2	0.000	0.000
572.500	4745.916	347.2	76	0.000	2	2	0.000	0.000

Len.: length of patch; Wid.: width of patch; SS.: strike-slip component; DS.: dip-slip component.



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