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Supplemental Material

Table S1. GPS velocity data in a Eurasian-fixed Reference Frame (velocity in mm/yr).

Table S2. GPS velocity data in a South China Block-fixed Reference Frame (velocity in mm/yr).

Table S3. GPS stations in the South China Block used to define the Euler Vector for transformation of reference frame (velocity in mm/yr).

Table S4. Interpolated velocities of the points on current fault trace and extension line of undeflected fault segment, and the averages of each pair of corresponding points (velocity in mm/yr).

Table S5. Position and backward velocity of points on current fault trace (velocity in mm/yr).

Table S6. Points inferred from the best estimate of duration time.

Table S7. Points on smoothed original fault trace.

Table S1. GPS velocity data in a Eurasian-fixed Reference Frame (velocity in mm/yr)									Table S2. GPS velocity data in a South China Block-fixed Reference Frame (velocity in mm/yr)							
Site	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Cne	Source	Site	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Cne
DIAN	99.89	26.461	-15.98	2.3	2.45	2.3	0.188	Cmonoc_C	DIAN	99.89	26.461	-13.98	2.3	-5.04	2.3	0.188
GSMA	102.058	34.02	0.85	1.08	14.43	1.08	0	Cmonoc_C	GSMA	102.058	34.02	2.98	1.08	7.03	1.08	0
GSWD	104.815	33.423	-1.78	1.08	9.33	1.08	0	Cmonoc_C	GSWD	104.815	33.423	0.51	1.08	1.98	1.08	0
GXBS	106.671	23.917	-2.78	1.11	8.17	1.21	0	Cmonoc_C	GXBS	106.671	23.917	-0.38	1.11	0.8	1.21	0
GYAO	102.27	27.8	-11.027	1.38	8.714	1.49	0.006	Cmonoc_C	GYAO	102.27	27.8	-8.887	1.38	1.264	1.49	0.006
GYX1	97.217	29.153	-5.535	1.17	11.493	1.31	0	Cmonoc_C	GYX1	97.217	29.153	-3.695	1.17	3.963	1.31	0
GZGY	106.669	26.473	-2.45	1.05	8.27	1.14	0	Cmonoc_C	GZGY	106.669	26.473	-0.05	1.05	0.9	1.14	0
GZSC	104.863	26.586	-2.09	1.09	8.23	1.09	0	Cmonoc_C	GZSC	104.863	26.586	0.2	1.09	0.82	1.09	0
KAIY	102.11	27.88	-11.627	1.3	10.216	1.32	0.009	Cmonoc_C	KAIY	102.11	27.88	-9.497	1.3	2.766	1.32	0.009
LESH	103.76	29.56	-2.639	1.3	6.34	1.32	0.009	Cmonoc_C	LESH	103.76	29.56	-0.409	1.3	-1.08	1.32	0.009
LUZH	105.414	28.872	-2.39	1.09	7.87	1.09	0	Cmonoc_C	LUZH	105.414	28.872	-0.06	1.09	0.48	1.09	0
MMMZ	97.45	25.435	-1.65	1.08	-2.51	1.16	0	Cmonoc_C	MMMZ	97.45	25.435	0.2	1.08	-10.03	1.16	0
MMNS	97.771	20.896	-1.28	1.04	2.42	1.13	0	Cmonoc_C	MMNS	97.771	20.896	0.59	1.04	-5.05	1.13	0
NEIJ	105.12	29.62	-2.951	1.3	6.226	1.32	0.009	Cmonoc_C	NEIJ	105.12	29.62	-0.641	1.3	-1.164	1.32	0.009
PIXI	103.76	30.91	-3.239	1.26	6.753	1.29	0.01	Cmonoc_C	PIXI	103.76	30.91	-1.009	1.26	-0.657	1.29	0.01
QHBM	100.741	32.932	-0.09	1.08	17.76	1.08	0	Cmonoc_C	QHBM	100.741	32.932	1.96	1.08	10.32	1.08	0
QIME	101.19	31.02	-4.216	1.3	13.37	1.31	0.008	Cmonoc_C	QIME	101.19	31.02	-2.136	1.3	5.92	1.31	0.008
QLAI	103.31	30.35	-2.738	1.3	6.248	1.32	0.009	Cmonoc_C	QLAI	103.31	30.35	-0.538	1.3	-1.172	1.32	0.009
RENS	104.1	30.2	-3.24	1.27	7.445	1.29	0.01	Cmonoc_C	RENS	104.1	30.2	-0.99	1.27	0.035	1.29	0.01
ROXI	104.43	29.46	-2.35	1.33	6.926	1.43	0.008	Cmonoc_C	ROXI	104.43	29.46	-0.08	1.33	-0.474	1.43	0.008
SCBZ	106.745	31.841	-2.26	1.09	8.26	1.09	0	Cmonoc_C	SCBZ	106.745	31.841	0.14	1.09	0.93	1.09	0
SCDF	101.123	30.978	-7.83	1.1	15.05	1.1	0	Cmonoc_C	SCDF	101.123	30.978	-5.76	1.1	7.59	1.1	0
SCGY	105.853	32.439	-2.14	1.05	7.41	1.14	0	Cmonoc_C	SCGY	105.853	32.439	0.21	1.05	0.07	1.14	0
SCGZ	100.019	31.61	-4.45	1.07	20.29	1.07	0	Cmonoc_C	SCGZ	100.019	31.61	-2.44	1.07	12.82	1.07	0
SCJL	101.5	29.008	-11.78	1.07	14.14	1.07	0	Cmonoc_C	SCJL	101.5	29.008	-9.68	1.07	6.68	1.07	0
SCJU	104.516	28.179	-2.39	1.09	7.94	1.09	0	Cmonoc_C	SCJU	104.516	28.179	-0.12	1.09	0.53	1.09	0
SCLH	100.672	31.388	-5.89	1.07	19.58	1.07	0	Cmonoc_C	SCLH	100.672	31.388	-3.84	1.07	12.12	1.07	0
SCLT	100.218	29.992	-10.19	1.1	17.02	1.1	0	Cmonoc_C	SCLT	100.218	29.992	-8.17	1.1	9.54	1.1	0

SCMB	103.534	28.84	-2.12	1.07	7.13	1.07	0	Cmonoc_C	SCMB	103.534	28.84	0.1	1.07	-0.3	1.07	0
SCMN	102.174	28.333	-10.77	1.07	11.66	1.07	0	Cmonoc_C	SCMN	102.174	28.333	-8.63	1.07	4.21	1.07	0
SCNC	105.882	30.979	-3.02	1.08	8.03	1.08	0	Cmonoc_C	SCNC	105.882	30.979	-0.67	1.08	0.67	1.08	0
SCNN	102.716	27.057	-11.55	1.1	10.38	1.1	0	Cmonoc_C	SCNN	102.716	27.057	-9.38	1.1	2.94	1.1	0
SCPZ	101.744	26.503	-12.36	1.04	8.95	1.13	0	Cmonoc_C	SCPZ	101.744	26.503	-10.25	1.04	1.49	1.13	0
SCSM	102.354	29.229	-6.22	1.1	11.37	1.1	0	Cmonoc_C	SCSM	102.354	29.229	-4.07	1.1	3.92	1.1	0
SCSN	105.562	30.508	-2	1.08	8.34	1.08	0	Cmonoc_C	SCSN	105.562	30.508	0.33	1.08	0.97	1.08	0
SCTQ	102.765	30.074	-4	1.07	9.82	1.16	0	Cmonoc_C	SCTQ	102.765	30.074	-1.83	1.07	2.39	1.16	0
SCXC	99.803	28.937	-11.89	1.07	14.69	1.07	0	Cmonoc_C	SCXC	99.803	28.937	-9.9	1.07	7.2	1.07	0
SCXD	102.437	28.3	-8.65	1.07	11.53	1.07	0	Cmonoc_C	SCXD	102.437	28.3	-6.5	1.07	4.08	1.07	0
SCXJ	102.372	31	-5.046	1.19	6.677	1.27	0	Cmonoc_C	SCXJ	102.372	31	-2.896	1.19	-0.753	1.27	0
SCYX	102.512	28.651	-6.85	1.04	11.26	1.13	0	Cmonoc_C	SCYX	102.512	28.651	-4.69	1.04	3.81	1.13	0
SCYY	101.542	27.483	-11.97	1.07	12.04	1.07	0	Cmonoc_C	SCYY	101.542	27.483	-9.87	1.07	4.58	1.07	0
WARI	101.13	30.88	-8.816	1.29	16.169	1.37	0.008	Cmonoc_C	WARI	101.13	30.88	-6.746	1.29	8.709	1.37	0.008
XIAG	100.255	25.608	-11.66	0.99	2.49	0.99	0	Cmonoc_C	XIAG	100.255	25.608	-9.64	0.99	-4.99	0.99	0
XICH	102.35	27.81	-10.128	1.34	7.514	1.36	0.007	Cmonoc_C	XICH	102.35	27.81	-7.978	1.34	0.064	1.36	0.007
XZCD	97.174	31.135	-0.54	1.06	22.95	1.06	0	Cmonoc_C	XZCD	97.174	31.135	1.29	1.06	15.43	1.06	0
XZCY	97.466	28.661	-5.42	1.09	15.2	1.1	0	Cmonoc_C	XZCY	97.466	28.661	-3.57	1.09	7.67	1.1	0
YANG	96.172	21.989	5.774	1.22	-1.038	1.25	0.001	Cmonoc_C	YANG	96.172	21.989	7.544	1.22	-8.538	1.25	0.001
YBIN	104.6	28.8	-1.851	1.3	7.22	1.32	0.01	Cmonoc_C	YBIN	104.6	28.8	0.429	1.3	-0.19	1.32	0.01
YNCX	101.493	25.05	-11.01	1.04	5.34	1.13	0	Cmonoc_C	YNCX	101.493	25.05	-8.91	1.04	-2.12	1.13	0
YNDC	103.181	26.108	-6.36	1.04	7.94	1.13	0	Cmonoc_C	YNDC	103.181	26.108	-4.16	1.04	0.5	1.13	0
YNGM	99.392	23.546	-6.5	1.02	-0.6	1.17	0	Cmonoc_C	YNGM	99.392	23.546	-4.53	1.02	-8.08	1.17	0
YNHZ	103.292	26.408	-5.73	1.04	9.31	1.13	0	Cmonoc_C	YNHZ	103.292	26.408	-3.53	1.04	1.88	1.13	0
YNJD	100.881	24.437	-10.62	1.04	2.79	1.13	0	Cmonoc_C	YNJD	100.881	24.437	-8.56	1.04	-4.68	1.13	0
YNJP	103.23	22.79	-2.79	1	6.5	1.08	0	Cmonoc_C	YNJP	103.23	22.79	-0.46	1	-0.99	1.08	0
YNLA	99.954	22.56	-4.76	1.09	2.78	1.09	0	Cmonoc_C	YNLA	99.954	22.56	-2.76	1.09	-4.68	1.09	0
YNLC	100.076	23.868	-8.09	1.04	3.21	1.12	0	Cmonoc_C	YNLC	100.076	23.868	-6.08	1.04	-4.26	1.12	0
YNMJ	101.675	23.416	-9.32	1.03	4.23	1.12	0	Cmonoc_C	YNMJ	101.675	23.416	-7.21	1.03	-3.22	1.12	0
YNML	103.382	24.396	-2.68	1.06	8.61	1.06	0	Cmonoc_C	YNML	103.382	24.396	-0.47	1.06	1.18	1.06	0
YNMZ	103.4	23.36	-2.69	1.55	6.71	1.65	0.151	Cmonoc_C	YNMZ	103.4	23.36	-0.36	1.55	-0.77	1.65	0.151

YNRL	97.845	24.001	-3.78	1.03	-3.35	1.12	0	Cmonoc_C	YNRL	97.845	24.001	-1.9	1.03	-10.85	1.12	0
YNSD	99.19	24.713	-9.15	1.03	-0.5	1.12	0	Cmonoc_C	YNSD	99.19	24.713	-7.19	1.03	-7.99	1.12	0
YNSM	101.049	22.741	-8.59	1.09	2.11	1.09	0	Cmonoc_C	YNSM	101.049	22.741	-6.52	1.09	-5.34	1.09	0
YNTC	98.438	24.955	-6	1.03	-1.77	1.12	0	Cmonoc_C	YNTC	98.438	24.955	-4.09	1.03	-9.27	1.12	0
YNTH	102.751	24.118	-7.74	1.03	6.11	1.12	0	Cmonoc_C	YNTH	102.751	24.118	-5.57	1.03	-1.32	1.12	0
YNXP	101.906	24.102	-10.14	1.09	4.3	1.09	0	Cmonoc_C	YNXP	101.906	24.102	-8.02	1.09	-3.15	1.09	0
YNYA	101.327	25.724	-11.33	1.03	6.22	1.12	0	Cmonoc_C	YNYA	101.327	25.724	-9.24	1.03	-1.25	1.12	0
YNYL	99.372	25.885	-11.11	1.03	0.79	1.12	0	Cmonoc_C	YNYL	99.372	25.885	-9.14	1.03	-6.71	1.12	0
YNYM	101.861	25.689	-11.8	1.03	7.26	1.12	0	Cmonoc_C	YNYM	101.861	25.689	-9.68	1.03	-0.2	1.12	0
YNYS	100.754	26.683	-11.61	1.06	9.35	1.06	0	Cmonoc_C	YNYS	100.754	26.683	-9.56	1.06	1.87	1.06	0
ZHJI	104.55	31.01	-2.85	1.27	6.851	1.29	0.01	Cmonoc_C	ZHJI	104.55	31.01	-0.57	1.27	-0.539	1.29	0.01
DS11	98.56	31.77	-5.092	1.5	22.594	3	-0.037	Cmonoc_I	DS11	98.56	31.77	-3.172	1.5	15.094	3	-0.037
DS39	97.27	33.9	2.18	2.2	19.34	2.3	0	Cmonoc_I	DS39	97.27	33.9	4.02	2.2	11.84	2.3	0
F074	105.767	24.99	-2.35	1.06	7.77	1.3	0	Cmonoc_I	F074	105.767	24.99	0	1.06	0.38	1.3	0
F075	106.581	24.406	-2.53	1.35	7.61	1.31	0	Cmonoc_I	F075	106.581	24.406	-0.14	1.35	0.24	1.31	0
F076	104.311	24.879	-3.54	1.2	6.49	1.15	0	Cmonoc_I	F076	104.311	24.879	-1.28	1.2	-0.92	1.15	0
F077	105.837	23.366	-3.09	1.16	5.73	1.23	0	Cmonoc_I	F077	105.837	23.366	-0.74	1.16	-1.65	1.23	0
F078	107.14	22.862	-1.66	1.1	6.94	1.3	0	Cmonoc_I	F078	107.14	22.862	0.76	1.1	-0.42	1.3	0
F081	104.272	23.353	-4.05	1.17	6.14	1.25	0	Cmonoc_I	F081	104.272	23.353	-1.79	1.17	-1.27	1.25	0
H001	106.509	33.915	-2.11	1.15	6.17	1.23	0	Cmonoc_I	H001	106.509	33.915	0.28	1.15	-1.14	1.23	0
H002	105.814	33.891	-3.36	1.18	7.05	1.21	0	Cmonoc_I	H002	105.814	33.891	-1.01	1.18	-0.27	1.21	0
H004	106.924	33.617	-4.03	1.13	6.4	1.29	0	Cmonoc_I	H004	106.924	33.617	-1.62	1.13	-0.9	1.29	0
H005	105.595	33.697	-3.02	1.31	6.62	1.22	0	Cmonoc_I	H005	105.595	33.697	-0.68	1.31	-0.71	1.22	0
H006	105.285	33.781	-2.452	1.15	7.391	1.23	0	Cmonoc_I	H006	105.285	33.781	-0.132	1.15	0.051	1.23	0
H007	106.155	33.34	-2.92	1.17	6.88	1.31	0	Cmonoc_I	H007	106.155	33.34	-0.55	1.17	-0.44	1.31	0
H009	106.023	32.962	-3.23	1.21	6.83	1.3	0	Cmonoc_I	H009	106.023	32.962	-0.87	1.21	-0.5	1.3	0
H010	105.226	32.571	-2.64	1.16	8	1.39	0	Cmonoc_I	H010	105.226	32.571	-0.33	1.16	0.64	1.39	0
H012	105.457	32.018	-2.72	1.53	7.67	1.23	0	Cmonoc_I	H012	105.457	32.018	-0.39	1.53	0.31	1.23	0
H019	104.401	33.787	-1.66	1.22	9.5	1.13	0	Cmonoc_I	H019	104.401	33.787	0.61	1.22	2.14	1.13	0
H020	103.727	33.937	-0.18	1.18	9.38	1.21	0	Cmonoc_I	H020	103.727	33.937	2.05	1.18	2.01	1.21	0
H022	104.625	33.001	-3.24	1.19	8.42	1.7	0	Cmonoc_I	H022	104.625	33.001	-0.96	1.19	1.06	1.7	0

H025	103.435	32.931	-2.33	1.36	10.29	2.6	0	Cmonoc_I	H025	103.435	32.931	-0.12	1.36	2.9	2.6	0
H026	102.991	33.571	-1.41	1.12	12.55	1.29	0	Cmonoc_I	H026	102.991	33.571	0.77	1.12	5.16	1.29	0
H027	101.482	33.429	0.63	1.2	13.58	1.12	0	Cmonoc_I	H027	101.482	33.429	2.73	1.2	6.16	1.12	0
H028	101.706	32.902	-1.22	1.24	15.17	1.19	0	Cmonoc_I	H028	101.706	32.902	0.89	1.24	7.74	1.19	0
H029	100.595	33.093	-0.6	1.17	16.2	1.19	0	Cmonoc_I	H029	100.595	33.093	1.44	1.17	8.76	1.19	0
H030	103.613	32.591	-2.839	1.15	9.681	1.23	0	Cmonoc_I	H030	103.613	32.591	-0.619	1.15	2.291	1.23	0
H031	102.501	32.786	-0.92	1.35	12.35	1.37	0	Cmonoc_I	H031	102.501	32.786	1.24	1.35	4.94	1.37	0
H032	104.571	32.405	-3.11	1.11	6.59	1.7	0	Cmonoc_I	H032	104.571	32.405	-0.83	1.11	-0.78	1.7	0
H033	104.832	32.182	-3.14	1.12	7.86	1.35	0	Cmonoc_I	H033	104.832	32.182	-0.85	1.12	0.49	1.35	0
H034	103.732	32.362	-3.89	1.16	9.04	1.44	0	Cmonoc_I	H034	103.732	32.362	-1.66	1.16	1.65	1.44	0
H035	104.444	31.802	-2.16	1.34	8.55	1.37	0	Cmonoc_I	H035	104.444	31.802	0.11	1.34	1.17	1.37	0
H037	103.166	32.075	-4.438	1.15	9.477	1.23	0	Cmonoc_I	H037	103.166	32.075	-2.238	1.15	2.067	1.23	0
H039	100.728	31.862	-1.92	1.8	13.75	1.35	0	Cmonoc_I	H039	100.728	31.862	0.13	1.8	6.29	1.35	0
H040	101.615	31.77	-1.77	1.33	11.57	1.56	0	Cmonoc_I	H040	101.615	31.77	0.33	1.33	4.13	1.56	0
H041	101.071	32.319	-0.55	1.27	13.87	1.29	0	Cmonoc_I	H041	101.071	32.319	1.52	1.27	6.43	1.29	0
H042	100.334	32.275	0.16	1.13	17.16	1.21	0	Cmonoc_I	H042	100.334	32.275	2.19	1.13	9.7	1.21	0
H043	104.782	31.487	-2.6	1.21	6.44	1.24	0	Cmonoc_I	H043	104.782	31.487	-0.31	1.21	-0.94	1.24	0
H044	104.187	31.353	-4.16	1.27	5.89	1.29	0	Cmonoc_I	H044	104.187	31.353	-1.91	1.27	-1.5	1.29	0
H045	103.612	31.474	-3.42	1.15	9.09	1.29	0	Cmonoc_I	H045	103.612	31.474	-1.2	1.15	1.69	1.29	0
H046	102.67	31.85	-4.128	1.15	9.875	1.22	0	Cmonoc_I	H046	102.67	31.85	-1.958	1.15	2.455	1.22	0
H047	102.096	31.466	-3.21	1.22	9.81	1.13	0	Cmonoc_I	H047	102.096	31.466	-1.08	1.22	2.38	1.13	0
H048	104.441	31.157	-3.28	1.27	7.17	1.29	0	Cmonoc_I	H048	104.441	31.157	-1.01	1.27	-0.22	1.29	0
H049	103.692	31.06	-4.96	1.22	7.22	3	0	Cmonoc_I	H049	103.692	31.06	-2.73	1.22	-0.19	3	0
H050	103.145	31.008	-3.6	1.11	8.38	1.51	0	Cmonoc_I	H050	103.145	31.008	-1.41	1.11	0.96	1.51	0
H051	102.775	30.992	-3.28	1.25	7.03	1.34	0	Cmonoc_I	H051	102.775	30.992	-1.11	1.25	-0.4	1.34	0
H052	101.866	30.949	-3.22	1.15	14.97	2.5	0	Cmonoc_I	H052	101.866	30.949	-1.1	1.15	7.53	2.5	0
H054	100.75	31.297	-6.41	1.13	15.79	1.21	0	Cmonoc_I	H054	100.75	31.297	-4.36	1.13	8.33	1.21	0
H056	100.297	31.647	-4.59	1.14	16.59	1.21	0	Cmonoc_I	H056	100.297	31.647	-2.57	1.14	9.12	1.21	0
H057	100.241	31.32	-9.21	1.36	19.38	1.18	0	Cmonoc_I	H057	100.241	31.32	-7.19	1.36	11.91	1.18	0
H058	104.077	30.732	-3.22	1.17	6.22	1.25	0	Cmonoc_I	H058	104.077	30.732	-0.97	1.17	-1.18	1.25	0
H059	103.865	30.693	-3.71	2.4	8.76	1.9	0	Cmonoc_I	H059	103.865	30.693	-1.47	2.4	1.35	1.9	0

H060	103.41	30.415	-4	1.7	5.65	1.21	0	Cmonoc_I	H060	103.41	30.415	-1.79	1.7	-1.77	1.21	0
H061	102.841	30.253	-4.39	1.53	7.95	1.3	0	Cmonoc_I	H061	102.841	30.253	-2.21	1.53	0.52	1.3	0
H062	100.929	31.143	-7.94	1.39	15.06	1.36	0	Cmonoc_I	H062	100.929	31.143	-5.88	1.39	7.6	1.36	0
H063	100.307	30.925	-9.15	1.12	17.77	1.32	0	Cmonoc_I	H063	100.307	30.925	-7.12	1.12	10.3	1.32	0
H065	103.003	29.975	-4.39	1.24	8.15	1.19	0	Cmonoc_I	H065	103.003	29.975	-2.2	1.24	0.72	1.19	0
H066	101.788	30.074	-10.22	1.31	9.84	1.21	0	Cmonoc_I	H066	101.788	30.074	-8.11	1.31	2.39	1.21	0
H067	101.486	30.075	-12.16	1.4	12.8	1.27	0	Cmonoc_I	H067	101.486	30.075	-10.06	1.4	5.34	1.27	0
H068	101.023	30.106	-9.87	3	10.04	2.8	0	Cmonoc_I	H068	101.023	30.106	-7.8	3	2.58	2.8	0
H069	99.168	30.094	-7.02	1.19	16.98	1.07	0	Cmonoc_I	H069	99.168	30.094	-5.06	1.19	9.48	1.07	0
H070	104.073	29.652	-3.42	1.32	7.7	1.13	0	Cmonoc_I	H070	104.073	29.652	-1.17	1.32	0.29	1.13	0
H071	104.536	30.374	-2.65	1.16	7.246	1.23	0	Cmonoc_I	H071	104.536	30.374	-0.37	1.16	-0.154	1.23	0
H072	102.817	29.789	-4.18	1.22	7.45	1.16	0	Cmonoc_I	H072	102.817	29.789	-2	1.22	0.02	1.16	0
H073	102.29	29.848	-4.07	1.36	7.88	1.15	0	Cmonoc_I	H073	102.29	29.848	-1.93	1.36	0.44	1.15	0
H074	101.558	29.846	-14.46	1.4	12.35	1.27	0	Cmonoc_I	H074	101.558	29.846	-12.36	1.4	4.89	1.27	0
H075	100.39	29.696	-11.99	1.19	15.74	1.14	0	Cmonoc_I	H075	100.39	29.696	-9.96	1.19	8.26	1.14	0
H076	103.468	29.602	-4.15	1.46	5.63	1.27	0	Cmonoc_I	H076	103.468	29.602	-1.94	1.46	-1.79	1.27	0
H077	102.655	29.348	-5.14	1.15	8.16	2	0	Cmonoc_I	H077	102.655	29.348	-2.97	1.15	0.72	2	0
H078	102.08	29.688	-6.42	1.28	10.9	1.24	0	Cmonoc_I	H078	102.08	29.688	-4.29	1.28	3.45	1.24	0
H079	101.524	30.326	-12.62	1.4	12.91	1.21	0	Cmonoc_I	H079	101.524	30.326	-10.52	1.4	5.46	1.21	0
H080	100.121	29.175	-12.23	1.13	13.86	1.24	0	Cmonoc_I	H080	100.121	29.175	-10.22	1.13	6.37	1.24	0
H081	103.262	29.228	-2.539	1.15	7.337	1.22	0	Cmonoc_I	H081	103.262	29.228	-0.339	1.15	-0.093	1.22	0
H082	102.439	29.263	-6.87	1.32	8.34	1.63	0	Cmonoc_I	H082	102.439	29.263	-4.72	1.32	0.9	1.63	0
H086	103.043	28.847	-4.49	1.23	5.66	1.44	0	Cmonoc_I	H086	103.043	28.847	-2.3	1.23	-1.77	1.44	0
H087	102.767	28.955	-3.93	1.14	10.21	1.44	0	Cmonoc_I	H087	102.767	28.955	-1.76	1.14	2.77	1.44	0
H088	103.978	28.605	-3.59	1.33	5.69	1.5	0	Cmonoc_I	H088	103.978	28.605	-1.35	1.33	-1.73	1.5	0
H089	103.121	28.312	-4.88	1.26	5.08	1.29	0	Cmonoc_I	H089	103.121	28.312	-2.69	1.26	-2.36	1.29	0
H092	102.126	28.515	-11.98	1.13	10	1.21	0	Cmonoc_I	H092	102.126	28.515	-9.85	1.13	2.55	1.21	0
H093	103.64	28.251	-2.43	1.4	5.89	1.27	0	Cmonoc_I	H093	103.64	28.251	-0.21	1.4	-1.54	1.27	0
H094	102.833	27.999	-5.85	1.1	9.81	1.51	0	Cmonoc_I	H094	102.833	27.999	-3.67	1.1	2.37	1.51	0
H095	102.232	27.875	-11.49	2.4	11.74	2.3	0	Cmonoc_I	H095	102.232	27.875	-9.35	2.4	4.29	2.3	0
H096	101.238	27.656	-13.24	1.33	10.07	1.43	0	Cmonoc_I	H096	101.238	27.656	-11.16	1.33	2.6	1.43	0

H097	100.653	27.748	-15.19	1.18	9.55	1.19	0	Cmonoc_I	H097	100.653	27.748	-13.14	1.18	2.07	1.19	0
H098	103.892	27.769	-3.92	1.17	6.89	1.19	0	Cmonoc_I	H098	103.892	27.769	-1.68	1.17	-0.53	1.19	0
H099	103.269	27.684	-4.2	1.12	6.4	1.39	0	Cmonoc_I	H099	103.269	27.684	-2	1.12	-1.03	1.39	0
H100	102.79	27.693	-7.61	1.11	7.89	1.21	0	Cmonoc_I	H100	102.79	27.693	-5.44	1.11	0.45	1.21	0
H101	103.687	27.356	-2.11	1.36	6.58	2.7	0	Cmonoc_I	H101	103.687	27.356	0.12	1.36	-0.85	2.7	0
H102	102.549	27.371	-10.65	1.17	9.25	1.19	0	Cmonoc_I	H102	102.549	27.371	-8.49	1.17	1.8	1.19	0
H103	102.188	27.454	-13.38	1.18	9.03	1.19	0	Cmonoc_I	H103	102.188	27.454	-11.24	1.18	1.58	1.19	0
H104	101.71	27.539	-13.42	1.2	10.01	1.14	0	Cmonoc_I	H104	101.71	27.539	-11.31	1.2	2.55	1.14	0
H106	100.934	27.138	-13.23	1.17	8.82	1.25	0	Cmonoc_I	H106	100.934	27.138	-11.17	1.17	1.35	1.25	0
H107	100.065	27.109	-15.87	1.13	5.58	1.24	0	Cmonoc_I	H107	100.065	27.109	-13.86	1.13	-1.91	1.24	0
H108	102.907	26.931	-8.81	1.12	7.64	1.29	0	Cmonoc_I	H108	102.907	26.931	-6.63	1.12	0.2	1.29	0
H109	102.611	26.62	-12.92	1.17	8.71	1.18	0	Cmonoc_I	H109	102.611	26.62	-10.76	1.17	1.26	1.18	0
H110	102.263	26.69	-12.89	1.2	8.84	1.14	0	Cmonoc_I	H110	102.263	26.69	-10.75	1.2	1.39	1.14	0
H111	102.1	26.826	-11.05	1.22	9.09	1.16	0	Cmonoc_I	H111	102.1	26.826	-8.92	1.22	1.64	1.16	0
H112	101.959	27.049	-12.56	2.1	9.91	2.5	0	Cmonoc_I	H112	101.959	27.049	-10.44	2.1	2.45	2.5	0
H113	101.855	26.69	-13.29	1.15	8.33	1.29	0	Cmonoc_I	H113	101.855	26.69	-11.17	1.15	0.87	1.29	0
H114	101.245	26.677	-11.71	1.1	12.84	1.32	0	Cmonoc_I	H114	101.245	26.677	-9.63	1.1	5.37	1.32	0
H119	103.227	26.405	-6.96	1.11	7.42	1.29	0	Cmonoc_I	H119	103.227	26.405	-4.76	1.11	-0.02	1.29	0
H121	102.532	26.002	-12.72	1.11	7.3	1.21	0	Cmonoc_I	H121	102.532	26.002	-10.56	1.11	-0.15	1.21	0
H122	101.683	26.05	-14.17	1.18	7.72	1.19	0	Cmonoc_I	H122	101.683	26.05	-12.06	1.18	0.26	1.19	0
H123	100.597	26.212	-12.16	1.2	5.16	1.16	0	Cmonoc_I	H123	100.597	26.212	-10.12	1.2	-2.32	1.16	0
H124	100.094	25.979	-12.95	1.35	2.62	1.28	0	Cmonoc_I	H124	100.094	25.979	-10.94	1.35	-4.87	1.28	0
H125	103.769	25.495	-3.439	1.16	6.179	1.25	0	Cmonoc_I	H125	103.769	25.495	-1.209	1.16	-1.241	1.25	0
H126	103.241	25.608	-7.42	1.18	6.04	1.19	0	Cmonoc_I	H126	103.241	25.608	-5.22	1.18	-1.39	1.19	0
H127	102.941	25.798	-11.69	1.14	6.53	1.21	0	Cmonoc_I	H127	102.941	25.798	-9.51	1.14	-0.91	1.21	0
H128	102.505	25.577	-12.78	1.17	5.71	1.18	0	Cmonoc_I	H128	102.505	25.577	-10.62	1.17	-1.74	1.18	0
H131	100.56	25.798	-11.6	1.19	4.31	1.16	0	Cmonoc_I	H131	100.56	25.798	-9.56	1.19	-3.17	1.16	0
H132	103.656	25.022	-5.82	1.1	5.88	1.39	0	Cmonoc_I	H132	103.656	25.022	-3.6	1.1	-1.55	1.39	0
H134	102.517	25.237	-12.15	1.12	5.98	1.27	0	Cmonoc_I	H134	102.517	25.237	-9.99	1.12	-1.46	1.27	0
H135	102.071	25.155	-12.16	1.21	3.73	1.3	0	Cmonoc_I	H135	102.071	25.155	-10.03	1.21	-3.72	1.3	0
H136	101.573	24.985	-10.19	1.23	2.44	1.5	0	Cmonoc_I	H136	101.573	24.985	-8.09	1.23	-5.02	1.5	0

H137	101.265	25.213	-10.14	1.18	3.38	1.18	0	Cmonoc_I	H137	101.265	25.213	-8.06	1.18	-4.08	1.18	0
H138	100.548	25.482	-9.86	1.19	2.55	1.14	0	Cmonoc_I	H138	100.548	25.482	-7.82	1.19	-4.93	1.14	0
H140	100.496	25.341	-9.29	1.11	1.44	1.29	0	Cmonoc_I	H140	100.496	25.341	-7.25	1.11	-6.04	1.29	0
H141	100.522	25.037	-10.45	1.12	2.56	1.35	0	Cmonoc_I	H141	100.522	25.037	-8.41	1.12	-4.91	1.35	0
H143	103.261	24.769	-5.7	1.18	6.77	1.16	0	Cmonoc_I	H143	103.261	24.769	-3.5	1.18	-0.66	1.16	0
H144	102.923	24.679	-9.88	1.19	5.62	1.14	0	Cmonoc_I	H144	102.923	24.679	-7.7	1.19	-1.82	1.14	0
H145	102.154	24.676	-11.63	1.16	3.01	1.25	0	Cmonoc_I	H145	102.154	24.676	-9.49	1.16	-4.44	1.25	0
H146	101.634	24.688	-6.67	1.3	2.04	2.6	0	Cmonoc_I	H146	101.634	24.688	-4.56	1.3	-5.42	2.6	0
H147	100.314	24.837	-10.61	1.14	1	1.2	0	Cmonoc_I	H147	100.314	24.837	-8.58	1.14	-6.48	1.2	0
H148	100.136	24.445	-9.92	1.13	0.61	1.21	0	Cmonoc_I	H148	100.136	24.445	-7.9	1.13	-6.87	1.21	0
H149	102.577	24.375	-11.11	1.31	2.16	1.21	0	Cmonoc_I	H149	102.577	24.375	-8.95	1.31	-5.28	1.21	0
H150	102.439	24.188	-12.87	1.24	2.23	1.19	0	Cmonoc_I	H150	102.439	24.188	-10.72	1.24	-5.21	1.19	0
H151	101.975	24.07	-11.5	1.13	1.71	1.2	0	Cmonoc_I	H151	101.975	24.07	-9.37	1.13	-5.74	1.2	0
H152	101.093	24.023	-10.81	1.18	0.95	1.18	0	Cmonoc_I	H152	101.093	24.023	-8.74	1.18	-6.51	1.18	0
H154	103.42	24.108	-5.17	1.15	5.2	1.29	0	Cmonoc_I	H154	103.42	24.108	-2.96	1.15	-2.22	1.29	0
H156	102.496	23.719	-8.12	1.44	5.13	1.7	0	Cmonoc_I	H156	102.496	23.719	-5.96	1.44	-2.31	1.7	0
H157	101.994	23.597	-10.45	1.13	3.1	1.24	0	Cmonoc_I	H157	101.994	23.597	-8.32	1.13	-4.34	1.24	0
H160	100.895	23.868	-8.03	1.15	1.76	1.15	0	Cmonoc_I	H160	100.895	23.868	-5.97	1.15	-5.7	1.15	0
H163	100.111	23.598	-8.84	1.24	-1.68	1.16	0	Cmonoc_I	H163	100.111	23.598	-6.83	1.24	-9.15	1.16	0
H164	103.4	23.47	-2.81	0.64	6.12	0.67	0	Cmonoc_I	H164	103.4	23.47	-0.48	0.64	-1.36	0.67	0
H165	103.28	23.71	-3.61	0.71	6.9	0.77	0	Cmonoc_I	H165	103.28	23.71	-1.28	0.71	-0.58	0.77	0
H166	102.84	23.22	-5.43	1.11	4.71	1.23	0	Cmonoc_I	H166	102.84	23.22	-3.12	1.11	-2.78	1.23	0
H167	102.401	22.996	-5.42	1.16	6.43	1.25	0	Cmonoc_I	H167	102.401	22.996	-3.27	1.16	-1	1.25	0
H170	103.69	22.98	-1.81	0.2	5.81	0.3	-0.046	Cmonoc_I	H170	103.69	22.98	0.53	0.2	-1.67	0.3	-0.046
H172	103.93	22.53	-2.24	1.27	6.633	1.8	0	Cmonoc_I	H172	103.93	22.53	0	1.27	-0.767	1.8	0
H175	101.063	22.507	-7.14	1.19	2.17	1.57	0	Cmonoc_I	H175	101.063	22.507	-5.07	1.19	-5.28	1.57	0
H176	101.35	21.89	-5.215	1.13	3.533	1.26	0	Cmonoc_I	H176	101.35	21.89	-3.125	1.13	-3.897	1.26	0
H177	100.786	22.013	-6.03	1.19	3.07	1.28	0	Cmonoc_I	H177	100.786	22.013	-3.98	1.19	-4.37	1.28	0
H178	100.109	22.222	-7.18	1.14	1.62	1.2	0	Cmonoc_I	H178	100.109	22.222	-5.17	1.14	-5.84	1.2	0
H184	99.667	30.294	-8.84	2.7	16.4	1.29	0	Cmonoc_I	H184	99.667	30.294	-6.85	2.7	8.91	1.29	0
H186	98.599	29.671	-7.67	1.25	16.53	1.13	0	Cmonoc_I	H186	98.599	29.671	-5.75	1.25	9.02	1.13	0

H187	98.687	29.244	-8.73	1.17	14.93	1.18	0	Cmonoc_I	H187	98.687	29.244	-6.8	1.17	7.42	1.18	0
H188	99.254	28.844	-11.32	1.19	13.37	1.16	0	Cmonoc_I	H188	99.254	28.844	-9.36	1.19	5.87	1.16	0
H190	99.757	28.32	-13.47	1.2	11.54	1.12	0	Cmonoc_I	H190	99.757	28.32	-11.48	1.2	4.05	1.12	0
H191	98.915	28.442	-10.81	1.16	11.48	1.18	0	Cmonoc_I	H191	98.915	28.442	-8.87	1.16	3.97	1.18	0
H192	99.708	27.829	-14.01	1.16	7.49	1.18	0	Cmonoc_I	H192	99.708	27.829	-12.02	1.16	0	1.18	0
H193	99.027	27.611	-11.41	1.14	7.66	1.15	0	Cmonoc_I	H193	99.027	27.611	-9.46	1.14	0.15	1.15	0
H194	98.669	27.759	-9.58	1.1	7.93	1.3	0	Cmonoc_I	H194	98.669	27.759	-7.65	1.1	0.42	1.3	0
H195	99.645	27.313	-13.62	1.13	6.23	1.2	0	Cmonoc_I	H195	99.645	27.313	-11.63	1.13	-1.27	1.2	0
H196	99.293	27.18	-12.23	1.15	5.27	1.28	0	Cmonoc_I	H196	99.293	27.18	-10.27	1.15	-2.23	1.28	0
H197	98.878	26.909	-10.53	1.11	3.99	1.25	0	Cmonoc_I	H197	98.878	26.909	-8.59	1.11	-3.52	1.25	0
H198	99.933	26.45	-13.59	1.19	3.11	1.14	0	Cmonoc_I	H198	99.933	26.45	-11.59	1.19	-4.38	1.14	0
H199	99.436	26.468	-12.24	1.15	1.58	2.6	0	Cmonoc_I	H199	99.436	26.468	-10.27	1.15	-5.92	2.6	0
H200	98.923	26.548	-10.97	1.12	1.3	1.24	0	Cmonoc_I	H200	98.923	26.548	-9.03	1.12	-6.21	1.24	0
H201	99.987	26.144	-13.14	1.23	2.31	1.22	0	Cmonoc_I	H201	99.987	26.144	-11.13	1.23	-5.18	1.22	0
H203	98.815	25.987	-9.56	1.18	2.76	1.16	0	Cmonoc_I	H203	98.815	25.987	-7.63	1.18	-4.74	1.16	0
H204	99.924	25.716	-11.62	1.25	1.05	1.13	0	Cmonoc_I	H204	99.924	25.716	-9.62	1.25	-6.44	1.13	0
H205	99.535	25.463	-8.31	1.3	-0.9	1.32	0	Cmonoc_I	H205	99.535	25.463	-6.33	1.3	-8.39	1.32	0
H206	99.11	25.652	-10.63	1.16	-0.97	1.18	0	Cmonoc_I	H206	99.11	25.652	-8.68	1.16	-8.47	1.18	0
H207	99.148	25.07	-10.09	1.12	-0.85	1.24	0	Cmonoc_I	H207	99.148	25.07	-8.13	1.12	-8.34	1.24	0
H209	99.907	24.629	-9.81	1.14	0.95	1.2	0	Cmonoc_I	H209	99.907	24.629	-7.81	1.14	-6.53	1.2	0
H210	99.643	24.838	-9.73	1.16	0.93	1.18	0	Cmonoc_I	H210	99.643	24.838	-7.74	1.16	-6.56	1.18	0
H211	98.675	24.577	-6.33	2.2	-0.82	1.61	0	Cmonoc_I	H211	98.675	24.577	-4.4	2.2	-8.32	1.61	0
H212	98.303	24.808	-6.09	1.22	-3.15	1.13	0	Cmonoc_I	H212	98.303	24.808	-4.19	1.22	-10.66	1.13	0
H213	97.943	24.712	-4.51	1.22	-4.43	1.19	0	Cmonoc_I	H213	97.943	24.712	-2.63	1.22	-11.94	1.19	0
H214	99.618	24.241	-8.36	1.19	-0.29	1.16	0	Cmonoc_I	H214	99.618	24.241	-6.38	1.19	-7.77	1.16	0
H215	99.249	24.002	-7.81	1.24	-1.16	1.15	0	Cmonoc_I	H215	99.249	24.002	-5.85	1.24	-8.65	1.15	0
H216	98.84	23.801	-5.85	1.13	-1.4	1.2	0	Cmonoc_I	H216	98.84	23.801	-3.91	1.13	-8.89	1.2	0
H217	98.287	24.256	-4.46	1.2	-3.41	1.12	0	Cmonoc_I	H217	98.287	24.256	-2.56	1.2	-10.91	1.12	0
H219	99.827	23.47	-8.65	1.19	-0.83	1.16	0	Cmonoc_I	H219	99.827	23.47	-6.65	1.19	-8.3	1.16	0
H222	99.834	23.045	-8.65	1.29	1.92	1.38	0	Cmonoc_I	H222	99.834	23.045	-6.65	1.29	-5.55	1.38	0
H223	99.26	23.135	-5.44	1.17	-1.63	1.18	0	Cmonoc_I	H223	99.26	23.135	-3.48	1.17	-9.11	1.18	0

H224	99.813	22.712	-5.09	1.19	0.13	1.16	0	Cmonoc_I	H224	99.813	22.712	-3.09	1.19	-7.33	1.16	0
H225	99.454	22.738	-7.67	1.32	0.84	1.18	0	Cmonoc_I	H225	99.454	22.738	-5.7	1.32	-6.63	1.18	0
H227	99.592	22.312	-4.95	1.19	-0.17	1.14	0	Cmonoc_I	H227	99.592	22.312	-2.97	1.19	-7.63	1.14	0
J006	99.688	33.804	1.31	1.16	17.94	1.18	0	Cmonoc_I	J006	99.688	33.804	3.3	1.16	10.49	1.18	0
J009	99.193	31.938	-3.37	1.14	21.09	1.2	0	Cmonoc_I	J009	99.193	31.938	-1.41	1.14	13.61	1.2	0
J011	95.601	29.939	2.84	1.11	18.88	1.51	0	Cmonoc_I	J011	95.601	29.939	4.57	1.11	11.32	1.51	0
J012	97.997	29.709	-2.6	1.14	15.03	1.9	0	Cmonoc_I	J012	97.997	29.709	-0.72	1.14	7.51	1.9	0
JB23	106.681	33.116	-3.19	1.11	6.27	1.21	0	Cmonoc_I	JB23	106.681	33.116	-0.79	1.11	-1.05	1.21	0
JB24	106.034	30.804	-2.85	1.19	7.32	1.16	0	Cmonoc_I	JB24	106.034	30.804	-0.49	1.19	-0.04	1.16	0
JB25	106.665	26.415	-2.21	1.19	7.47	1.16	0	Cmonoc_I	JB25	106.665	26.415	0.19	1.19	0.1	1.16	0
JB26	106.831	22.107	-2.471	1.16	6.515	1.23	0	Cmonoc_I	JB26	106.831	22.107	-0.061	1.16	-0.845	1.23	0
JB33	103.889	33.276	1.38	1.17	12.23	1.18	0	Cmonoc_I	JB33	103.889	33.276	3.62	1.17	4.86	1.18	0
JB34	102.306	31.706	-1.98	1.15	10.09	1.22	0	Cmonoc_I	JB34	102.306	31.706	0.16	1.15	2.66	1.22	0
JB35	101.497	30.495	-10.06	1.15	13.84	1.22	0	Cmonoc_I	JB35	101.497	30.495	-7.96	1.15	6.39	1.22	0
JB37	101.514	27.42	-13.21	1.19	9.55	1.14	0	Cmonoc_I	JB37	101.514	27.42	-11.11	1.19	2.09	1.14	0
JB38	100.17	26.883	-15.27	1.16	4.8	1.17	0	Cmonoc_I	JB38	100.17	26.883	-13.25	1.16	-2.69	1.17	0
JB41	98.498	25.018	-6.7	1.12	-2.08	1.24	0	Cmonoc_I	JB41	98.498	25.018	-4.78	1.12	-9.58	1.24	0
JB42	99.918	22.554	-4.52	1.27	-0.07	1.9	0	Cmonoc_I	JB42	99.918	22.554	-2.52	1.27	-7.53	1.9	0
Y222	99.66	33.96	2.596	1.22	16.027	1.26	0.011	Cmonoc_I	Y222	99.66	33.96	4.586	1.22	8.577	1.26	0.011
Y225	100.51	33.37	2.395	1.22	15.508	1.26	0.011	Cmonoc_I	Y225	100.51	33.37	4.435	1.22	8.068	1.26	0.011
Y226	96.5	32.27	4.031	1.9	23.714	1.7	0.001	Cmonoc_I	Y226	96.5	32.27	5.821	1.9	16.184	1.7	0.001
Y273	99.11	30.01	-8.093	1.22	16.164	1.25	0.011	Cmonoc_I	Y273	99.11	30.01	-6.143	1.22	8.664	1.25	0.011
Y285	102.3	28.9	-8.428	1.19	10.535	1.27	0.015	Cmonoc_I	Y285	102.3	28.9	-6.288	1.19	3.085	1.27	0.015
Y293	99.14	27.31	-11.394	1.2	5.826	1.3	0.013	Cmonoc_I	Y293	99.14	27.31	-9.444	1.2	-1.674	1.3	0.013
Y295	99.94	26.62	-13.404	1.22	2.508	1.25	0.015	Cmonoc_I	Y295	99.94	26.62	-11.404	1.22	-4.982	1.25	0.015
BTX4	97.076	32.858	3.73	1.16	22.47	1.23	-0.001	Cmonoc_II	BTX4	97.076	32.858	5.56	1.16	14.96	1.23	-0.001
F356	103.933	26.706	-2.53	1.27	8.57	1.29	0	Cmonoc_II	F356	103.933	26.706	-0.29	1.27	1.15	1.29	0
F357	104.088	26.251	-2.57	1.44	8.85	1.62	0	Cmonoc_II	F357	104.088	26.251	-0.32	1.44	1.43	1.62	0
F359	104.529	30.914	-1.14	1.8	7.53	1.7	0	Cmonoc_II	F359	104.529	30.914	1.13	1.8	0.14	1.7	0
F362	104.934	25.073	-2.84	1.7	7.91	1.61	0	Cmonoc_II	F362	104.934	25.073	-0.54	1.7	0.51	1.61	0
F363	105.046	25.739	-2.28	1.9	7.96	1.7	0	Cmonoc_II	F363	105.046	25.739	0.02	1.9	0.56	1.7	0

F364	105.034	27.85	-1.91	1.31	8.16	1.28	0	Cmonoc_II	F364	105.034	27.85	0.39	1.31	0.76	1.28	0
F365	105.137	31.767	-3.8	1.8	7.99	2.2	0	Cmonoc_II	F365	105.137	31.767	-1.49	1.8	0.62	2.2	0
F367	105.412	29.902	-1.76	1.31	6.57	1.9	0	Cmonoc_II	F367	105.412	29.902	0.57	1.31	-0.81	1.9	0
F368	105.426	24.354	-2.41	1.46	8.16	1.3	0	Cmonoc_II	F368	105.426	24.354	-0.08	1.46	0.77	1.3	0
F369	105.615	27.155	-2.41	1.7	8.1	1.54	0	Cmonoc_II	F369	105.615	27.155	-0.07	1.7	0.71	1.54	0
F370	105.929	26.261	-2.43	1.43	8.06	2.6	0	Cmonoc_II	F370	105.929	26.261	-0.07	1.43	0.67	2.6	0
F373	106.355	29.415	-2.63	1.8	7.65	1.48	0	Cmonoc_II	F373	106.355	29.415	-0.25	1.8	0.28	1.48	0
F374	106.539	27.556	-1.93	1.52	6.87	1.49	0	Cmonoc_II	F374	106.539	27.556	0.46	1.52	-0.5	1.49	0
F377	106.73	25.442	-2.6	1.4	7.84	1.21	0	Cmonoc_II	F377	106.73	25.442	-0.2	1.4	0.47	1.21	0
F378	106.903	32.426	-1.89	2	6.97	1.9	0	Cmonoc_II	F378	106.903	32.426	0.52	2	-0.35	1.9	0
F379	107.081	29.15	-2.55	1.9	7.48	1.8	0	Cmonoc_II	F379	107.081	29.15	-0.13	1.9	0.13	1.8	0
H304	104.935	34.009	-0.38	1.37	8.9	2.2	0	Cmonoc_II	H304	104.935	34.009	1.92	1.37	1.56	2.2	0
H305	105.108	33.478	-2.39	1.5	8.82	2.7	0	Cmonoc_II	H305	105.108	33.478	-0.08	1.5	1.47	2.7	0
H308	97.928	25.151	-3.18	1.31	-4.59	2.1	0	Cmonoc_II	H308	97.928	25.151	-1.3	1.31	-12.1	2.1	0
H309	98.197	25.454	-4.78	1.32	-5.35	1.63	0	Cmonoc_II	H309	98.197	25.454	-2.88	1.32	-12.86	1.63	0
H311	98.808	31.208	-2.55	1.7	21.87	1.7	0	Cmonoc_II	H311	98.808	31.208	-0.62	1.7	14.37	1.7	0
H314	98.873	27.297	-10.77	1.7	6.84	2.7	0	Cmonoc_II	H314	98.873	27.297	-8.83	1.7	-0.67	2.7	0
H315	98.91	23.487	-5.49	2.6	-1.09	2	0	Cmonoc_II	H315	98.91	23.487	-3.55	2.6	-8.58	2	0
H316	99	29.715	-7.17	2.2	13.36	1.6	0	Cmonoc_II	H316	99	29.715	-5.22	2.2	5.86	1.6	0
H317	99.048	24.267	-7.93	1.37	1.18	1.9	0	Cmonoc_II	H317	99.048	24.267	-5.98	1.37	-6.31	1.9	0
H318	99.339	28.218	-10.36	2.8	11.87	1.54	0	Cmonoc_II	H318	99.339	28.218	-8.39	2.8	4.37	1.54	0
H319	99.433	27.764	-11.2	1.52	10.9	1.7	0	Cmonoc_II	H319	99.433	27.764	-9.23	1.52	3.4	1.7	0
H320	99.593	23.741	-7.19	1.14	-0.69	2.2	0	Cmonoc_II	H320	99.593	23.741	-5.21	1.14	-8.17	2.2	0
H321	99.578	31.038	-5.81	1.45	19.45	1.49	0	Cmonoc_II	H321	99.578	31.038	-3.83	1.45	11.97	1.49	0
H323	99.789	26.017	-6.49	2.5	0.84	2.5	0	Cmonoc_II	H323	99.789	26.017	-4.5	2.5	-6.65	2.5	0
H324	99.862	26.807	-13.27	1.8	8.58	1.61	0	Cmonoc_II	H324	99.862	26.807	-11.27	1.8	1.09	1.61	0
H325	99.998	26.759	-12.78	1.7	7.56	1.7	0	Cmonoc_II	H325	99.998	26.759	-10.77	1.7	0.07	1.7	0
H327	100.046	27.511	-12.85	1.44	8.95	1.8	0	Cmonoc_II	H327	100.046	27.511	-10.84	1.44	1.46	1.8	0
H328	100.177	26.268	-10.44	1.9	8.55	2	0	Cmonoc_II	H328	100.177	26.268	-8.42	1.9	1.06	2	0
H329	100.323	30.465	-9.5	1.7	16.42	1.48	0	Cmonoc_II	H329	100.323	30.465	-7.47	1.7	8.95	1.48	0
H330	100.343	28.559	-12.53	2.3	10.75	1.9	0	Cmonoc_II	H330	100.343	28.559	-10.5	2.3	3.27	1.9	0

H331	100.346	22.656	-9.12	1.37	3.41	2.1	0	Cmonoc_II	H331	100.346	22.656	-7.09	1.37	-4.05	2.1	0
H333	100.455	26.999	-10.65	1.31	7.12	1.9	0	Cmonoc_II	H333	100.455	26.999	-8.62	1.31	-0.36	1.9	0
H334	100.68	26.448	-12.26	1.31	6.06	2.1	0	Cmonoc_II	H334	100.68	26.448	-10.21	1.31	-1.42	2.1	0
H335	100.729	24.643	-9.89	1.51	1.61	2	0	Cmonoc_II	H335	100.729	24.643	-7.84	1.51	-5.86	2	0
H336	100.831	25.4	-8.83	1.22	3.29	2.1	0	Cmonoc_II	H336	100.831	25.4	-6.77	1.22	-4.18	2.1	0
H337	100.923	28.126	-12.64	1.28	11.58	1.44	0	Cmonoc_II	H337	100.923	28.126	-10.58	1.28	4.11	1.44	0
H339	100.952	22.775	-7.34	1.7	1.74	1.8	0	Cmonoc_II	H339	100.952	22.775	-5.28	1.7	-5.71	1.8	0
H340	100.936	26.143	-8.99	1.31	9.14	2.2	0	Cmonoc_II	H340	100.936	26.143	-6.93	1.31	1.67	2.2	0
H341	100.946	23.405	-8.41	1.43	1.14	2.1	0	Cmonoc_II	H341	100.946	23.405	-6.35	1.43	-6.32	2.1	0
H342	101	27.623	-13.63	1.31	11.58	2.1	0	Cmonoc_II	H342	101	27.623	-11.56	1.31	4.11	2.1	0
H343	101.065	30.572	-7.44	1.26	20	1.29	0	Cmonoc_II	H343	101.065	30.572	-5.37	1.26	12.54	1.29	0
H344	101.354	22.707	-5.91	1.19	1.49	2.5	0	Cmonoc_II	H344	101.354	22.707	-3.82	1.19	-5.95	2.5	0
H345	101.404	30.612	-8.77	1.14	17.15	1.8	0	Cmonoc_II	H345	101.404	30.612	-6.68	1.14	9.7	1.8	0
H346	101.388	27.047	-11.24	1.9	10.18	1.3	0	Cmonoc_II	H346	101.388	27.047	-9.15	1.9	2.71	1.3	0
H347	101.5	29.334	-13.04	1.19	13.74	2.1	0	Cmonoc_II	H347	101.5	29.334	-10.94	1.19	6.28	2.1	0
H349	101.455	27.668	-11.49	1.45	12.14	1.49	0	Cmonoc_II	H349	101.455	27.668	-9.4	1.45	4.67	1.49	0
H350	101.558	22.372	-5.07	1.6	3.82	2.7	0	Cmonoc_II	H350	101.558	22.372	-2.97	1.6	-3.62	2.7	0
H351	101.568	25.349	-10.29	1.22	4.65	1.8	0	Cmonoc_II	H351	101.568	25.349	-8.19	1.22	-2.81	1.8	0
H352	101.663	24.428	-9	1.52	1.07	1.42	0	Cmonoc_II	H352	101.663	24.428	-6.89	1.52	-6.38	1.42	0
H353	102.191	24.391	-10.19	1.51	1.8	1.8	0	Cmonoc_II	H353	102.191	24.391	-8.05	1.51	-5.65	1.8	0
H354	101.674	22.965	-7.35	1.6	1.59	1.62	0	Cmonoc_II	H354	101.674	22.965	-5.24	1.6	-5.85	1.62	0
H356	101.878	24.978	-11.01	1.7	1.33	2.4	0	Cmonoc_II	H356	101.878	24.978	-8.89	1.7	-6.12	2.4	0
H357	101.865	28.23	-12.55	1.39	12.24	1.36	0	Cmonoc_II	H357	101.865	28.23	-10.43	1.39	4.78	1.36	0
H358	101.953	28.632	-9.27	1.51	12.92	1.9	0	Cmonoc_II	H358	101.953	28.632	-7.15	1.51	5.46	1.9	0
H359	102.152	27.759	-10.32	2.4	12.4	1.7	0	Cmonoc_II	H359	102.152	27.759	-8.18	2.4	4.95	1.7	0
H361	102.186	30.101	-2.37	1.8	12.78	1.35	0	Cmonoc_II	H361	102.186	30.101	-0.23	1.8	5.34	1.35	0
H362	102.2	25.618	-10.59	1.8	6.67	1.9	0	Cmonoc_II	H362	102.2	25.618	-8.45	1.8	-0.78	1.9	0
H363	102.228	29.449	-5.62	1.8	11.69	2.6	0	Cmonoc_II	H363	102.228	29.449	-3.48	1.8	4.24	2.6	0
H364	102.225	23.948	-9.7	1.15	1.14	1.28	0	Cmonoc_II	H364	102.225	23.948	-7.56	1.15	-6.3	1.28	0
H365	102.25	28.746	-8.24	1.8	11.57	1.54	0	Cmonoc_II	H365	102.25	28.746	-6.1	1.8	4.12	1.54	0
H366	102.339	29.135	-5.6	2.8	7.25	1.47	0	Cmonoc_II	H366	102.339	29.135	-3.45	2.8	-0.2	1.47	0

H367	102.415	27.873	-8.48	1.8	8.67	3.1	0	Cmonoc_II	H367	102.415	27.873	-6.33	1.8	1.22	3.1	0
H368	102.39	29.941	-3.77	1.23	9.57	1.44	0	Cmonoc_II	H368	102.39	29.941	-1.62	1.23	2.13	1.44	0
H369	102.416	27.629	-9.32	2.3	11.27	2.5	0	Cmonoc_II	H369	102.416	27.629	-7.17	2.3	3.82	2.5	0
H370	102.458	23.366	-5.32	1.22	4.49	2	0	Cmonoc_II	H370	102.458	23.366	-3.17	1.22	-2.94	2	0
H371	102.463	24.939	-9.36	2.1	5.38	2	0	Cmonoc_II	H371	102.463	24.939	-7.21	2.1	-2.06	2	0
H372	102.578	30.05	-3.93	1.9	8.64	2.3	0	Cmonoc_II	H372	102.578	30.05	-1.77	1.9	1.2	2.3	0
H373	102.559	27.883	-7.36	1.45	9	1.42	0	Cmonoc_II	H373	102.559	27.883	-5.2	1.45	1.55	1.42	0
H374	102.569	24.677	-10.52	1.16	4.14	1.63	0	Cmonoc_II	H374	102.569	24.677	-8.36	1.16	-3.3	1.63	0
H375	102.615	28.626	-5.38	1.44	10.95	1.62	0	Cmonoc_II	H375	102.615	28.626	-3.22	1.44	3.51	1.62	0
H376	102.71	27.949	-6.49	1.26	9.7	2.7	0	Cmonoc_II	H376	102.71	27.949	-4.32	1.26	2.26	2.7	0
H377	102.755	30.044	-2.61	1.7	6.49	3.1	0	Cmonoc_II	H377	102.755	30.044	-0.44	1.7	-0.94	3.1	0
H378	102.655	28.46	-4.54	1.7	11.32	1.8	0	Cmonoc_II	H378	102.655	28.46	-2.37	1.7	3.88	1.8	0
H379	102.814	24.976	-10.11	1.51	4.01	2.1	0	Cmonoc_II	H379	102.814	24.976	-7.93	1.51	-3.43	2.1	0
H380	102.829	24.468	-9.23	1.43	5.43	2.3	0	Cmonoc_II	H380	102.829	24.468	-7.05	1.43	-2.01	2.3	0
H381	102.829	23.916	-5.4	1.7	5.51	1.35	0	Cmonoc_II	H381	102.829	23.916	-3.22	1.7	-1.92	1.35	0
H382	102.86	23.569	-5.53	1.7	2.24	1.54	0	Cmonoc_II	H382	102.86	23.569	-3.35	1.7	-5.19	1.54	0
H385	102.98	24.15	-5.88	0.71	5.44	0.82	0	Cmonoc_II	H385	102.98	24.15	-3.56	0.71	-2.03	0.82	0
H386	103.016	28.121	-4.13	1.7	10.41	1.54	0	Cmonoc_II	H386	103.016	28.121	-1.94	1.7	2.97	1.54	0
H387	103.036	26.642	-5.01	1.53	10.09	1.35	0	Cmonoc_II	H387	103.036	26.642	-2.82	1.53	2.65	1.35	0
H388	103.036	25.353	-6.59	1.28	7.78	1.5	0	Cmonoc_II	H388	103.036	25.353	-4.4	1.28	0.34	1.5	0
H389	103.035	24.936	-7.07	1.16	6.44	1.8	0	Cmonoc_II	H389	103.035	24.936	-4.88	1.16	-0.99	1.8	0
H390	103.143	24.896	-6.13	2.8	4.55	2.1	0	Cmonoc_II	H390	103.143	24.896	-3.94	2.8	-2.88	2.1	0
H391	103.215	30.146	-3.04	2.6	5.69	1.7	0	Cmonoc_II	H391	103.215	30.146	-0.84	2.6	-1.73	1.7	0
H392	103.261	25.133	-3.24	1.7	7.89	2.7	0	Cmonoc_II	H392	103.261	25.133	-1.04	1.7	0.46	2.7	0
H394	103.435	28.096	-3.05	1.6	8.73	1.7	0	Cmonoc_II	H394	103.435	28.096	-0.84	1.6	1.3	1.7	0
H396	103.37	26.875	-2.13	1.37	8.7	2.1	0	Cmonoc_II	H396	103.37	26.875	0.08	1.37	1.27	2.1	0
H397	103.39	24.56	-3.76	0.84	7.59	0.9	0	Cmonoc_II	H397	103.39	24.56	-1.43	0.84	0.13	0.9	0
H398	103.444	25.889	-3.05	1.32	7.02	1.56	0	Cmonoc_II	H398	103.444	25.889	-0.84	1.32	-0.41	1.56	0
H402	104.092	30.43	-1.63	1.6	6.08	1.8	0	Cmonoc_II	H402	104.092	30.43	0.62	1.6	-1.32	1.8	0
HB04	103.896	28.955	-2.9	1.8	6.96	2.2	0	Cmonoc_II	HB04	103.896	28.955	-0.66	1.8	-0.46	2.2	0
HB06	102.83	24.11	-7.08	0.86	5.52	0.95	0	Cmonoc_II	HB06	102.83	24.11	-4.77	0.86	-1.96	0.95	0

HB08	101.368	23.291	-9.5	1.6	3.32	1.55	0	Cmonoc_II	HB08	101.368	23.291	-7.41	1.6	-4.13	1.55	0
HB10	103.13	23.14	-3	0.77	6.91	0.84	0	Cmonoc_II	HB10	103.13	23.14	-0.68	0.77	-0.58	0.84	0
HB12	101.86	22.59	-5.76	0.7	4.15	0.85	-0.017	Cmonoc_II	HB12	101.86	22.59	-3.49	0.7	-3.36	0.85	-0.017
HB14	100.43	21.984	-6.11	1.9	2.54	1.9	0	Cmonoc_II	HB14	100.43	21.984	-4.08	1.9	-4.91	1.9	0
HB15	100.682	21.594	-6.51	2.5	3.28	1.54	0	Cmonoc_II	HB15	100.682	21.594	-4.46	2.5	-4.16	1.54	0
HB16	99.7	31.694	-3.58	2.7	22.98	2.6	0	Cmonoc_II	HB16	99.7	31.694	-1.59	2.7	15.5	2.6	0
J319	95.79	29.819	1.84	1.23	20.48	1.63	0	Cmonoc_II	J319	95.79	29.819	3.59	1.23	12.93	1.63	0
J388	95.813	30.754	1.68	1.26	19.64	2.7	0	Cmonoc_II	J388	95.813	30.754	3.43	1.26	12.09	2.7	0
J389	96.095	29.75	0.13	1.46	19.24	1.3	0	Cmonoc_II	J389	96.095	29.75	1.9	1.46	11.69	1.3	0
J390	96.407	31.495	0.41	1.32	22.26	1.63	0	Cmonoc_II	J390	96.407	31.495	2.19	1.32	14.73	1.63	0
J392	96.633	32.742	1.18	1.19	24.56	2.4	0	Cmonoc_II	J392	96.633	32.742	2.98	1.19	17.04	2.4	0
J394	97.055	28.451	1.08	1.27	15.62	1.9	0	Cmonoc_II	J394	97.055	28.451	2.91	1.27	8.08	1.9	0
J395	97.181	29.282	-4.32	1.4	15.24	1.21	0	Cmonoc_II	J395	97.181	29.282	-2.49	1.4	7.71	1.21	0
J396	97.176	33.712	4.39	2.2	20.32	1.48	0	Cmonoc_II	J396	97.176	33.712	6.22	2.2	12.82	1.48	0
J397	97.288	33.06	2.01	1.32	16.67	1.63	0	Cmonoc_II	J397	97.288	33.06	3.85	1.32	9.16	1.63	0
J399	97.502	34.022	4.71	1.6	19.17	2	0	Cmonoc_II	J399	97.502	34.022	6.56	1.6	11.68	2	0
J402	98.23	31.514	-1.44	1.46	23.32	1.26	0	Cmonoc_II	J402	98.23	31.514	0.46	1.46	15.82	1.26	0
J403	98.62	32.38	0.6	1.45	23.25	1.56	0	Cmonoc_II	J403	98.62	32.38	2.52	1.45	15.76	1.56	0
J408	99.68	32.72	-0.07	1.31	17.15	1.23	0	Cmonoc_II	J408	99.68	32.72	1.92	1.31	9.68	1.23	0
J410	101.171	31.306	-3.26	1.33	15.55	1.43	0	Cmonoc_II	J410	101.171	31.306	-1.18	1.33	8.1	1.43	0
J419	105.346	33.197	-1.24	2.5	8.6	1.6	0	Cmonoc_II	J419	105.346	33.197	1.08	2.5	1.26	1.6	0
J420	98.323	33.053	0.95	1.34	20.2	1.37	0	Cmonoc_II	J420	98.323	33.053	2.85	1.34	12.71	1.37	0
J421	98.592	31.871	-2.23	1.27	24.48	1.56	0	Cmonoc_II	J421	98.592	31.871	-0.31	1.27	16.99	1.56	0
J422	97.403	28.992	-3.74	3	12.42	1.54	0	Cmonoc_II	J422	97.403	28.992	-1.89	3	4.89	1.54	0
J423	97.513	29.959	-3.05	1.15	14.79	1.31	0	Cmonoc_II	J423	97.513	29.959	-1.2	1.15	7.26	1.31	0
J424	97.097	30.554	-2.67	1.23	20.02	1.26	0	Cmonoc_II	J424	97.097	30.554	-0.84	1.23	12.49	1.26	0
J425	97.337	30.808	-0.75	2	27.19	2.2	0	Cmonoc_II	J425	97.337	30.808	1.09	2	19.67	2.2	0
J426	97.782	31.371	-1.16	1.46	23.93	1.23	0	Cmonoc_II	J426	97.782	31.371	0.71	1.46	16.42	1.23	0
NR01	100.66	30.14	-10.606	1.29	12.261	1.37	0.013	Cmonoc_II	NR01	100.66	30.14	-8.556	1.29	4.791	1.37	0.013
NR03	100.1	29.91	-9.805	1.3	17.36	1.32	0.009	Cmonoc_II	NR03	100.1	29.91	-7.795	1.3	9.88	1.32	0.009
NR09	103.17	31.45	-4.738	1.34	6.57	1.36	0.023	Cmonoc_II	NR09	103.17	31.45	-2.538	1.34	-0.84	1.36	0.023

XC11	102.29	27.89	-9.727	1.26	11.316	1.28	0.012	Cmonoc_II	XC11	102.29	27.89	-7.587	1.26	3.866	1.28	0.012
XUMU	95.523	30.101	1.39	2.2	19.36	2.3	-0.113	Cmonoc_II	XUMU	95.523	30.101	3.12	2.2	11.8	2.3	-0.113
Y302	100.37	25.44	-12.205	1.22	0.885	1.25	0.015	Cmonoc_II	Y302	100.37	25.44	-10.175	1.22	-6.595	1.25	0.015
Y313	100.58	24.79	-11.205	1.22	1.279	1.25	0.012	Cmonoc_II	Y313	100.58	24.79	-9.165	1.22	-6.191	1.25	0.012
ZG02	103.802	25.633	-2.66	1.27	8.65	1.7	0	Cmonoc_II	ZG02	103.802	25.633	-0.43	1.27	1.23	1.7	0
HH01	102.018	24.671	-10.84	1.23	0.01	1.29	-0.026	CMONOC_II_Honghe	HH01	102.018	24.671	-8.71	1.23	-7.44	1.29	-0.026
HH02	102.229	24.867	-9.12	1.21	-0.33	1.33	-0.009	CMONOC_II_Honghe	HH02	102.229	24.867	-6.98	1.21	-7.78	1.33	-0.009
HH05	100.821	24.482	-11.44	1.17	1.16	1.19	-0.019	CMONOC_II_Honghe	HH05	100.821	24.482	-9.38	1.17	-6.31	1.19	-0.019
HH20	102.676	25.456	-12.7	1.23	2.94	1.31	-0.006	CMONOC_II_Honghe	HH20	102.676	25.456	-10.53	1.23	-4.5	1.31	-0.006
HH28	102.423	25.121	-12.97	1.2	1.41	1.31	0.042	CMONOC_II_Honghe	HH28	102.423	25.121	-10.82	1.2	-6.04	1.31	0.042
HH51	102.097	24.518	-10.35	1.21	1.68	1.27	-0.01	CMONOC_II_Honghe	HH51	102.097	24.518	-8.22	1.21	-5.77	1.27	-0.01
HH66	101.539	25.277	-12.03	1.16	4.24	1.21	-0.01	CMONOC_II_Honghe	HH66	101.539	25.277	-9.93	1.16	-3.22	1.21	-0.01
HH96	101.287	25.086	-10.28	1.16	4.36	1.18	-0.039	CMONOC_II_Honghe	HH96	101.287	25.086	-8.2	1.16	-3.1	1.18	-0.039
HHGM	101.056	25.041	-11.82	1.16	1.72	1.22	-0.008	CMONOC_II_Honghe	HHGM	101.056	25.041	-9.75	1.16	-5.75	1.22	-0.008
HHHW	101.385	24.702	-11.33	1.17	-0.01	1.23	0.082	CMONOC_II_Honghe	HHHW	101.385	24.702	-9.24	1.17	-7.47	1.23	0.082
HHLY	101.488	24.891	-11.55	1.17	2.55	1.21	-0.01	CMONOC_II_Honghe	HHLY	101.488	24.891	-9.45	1.17	-4.91	1.21	-0.01
HHNC	101.845	23.658	-9.35	1.17	5.32	1.25	0.023	CMONOC_II_Honghe	HHNC	101.845	23.658	-7.23	1.17	-2.13	1.25	0.023
HHPJ	101.699	23.969	-10.08	1.18	0.63	1.29	-0.013	CMONOC_II_Honghe	HHPJ	101.699	23.969	-7.97	1.18	-6.82	1.29	-0.013
HHSB	100.97	24.445	-9.87	1.15	0.4	1.19	-0.026	CMONOC_II_Honghe	HHSB	100.97	24.445	-7.8	1.15	-7.06	1.19	-0.026
HHWP	101.332	23.956	-9.88	1.14	2.92	1.21	-0.039	CMONOC_II_Honghe	HHWP	101.332	23.956	-7.79	1.14	-4.54	1.21	-0.039
HHXG	101.979	23.702	-10.3	1.18	1.56	1.26	-0.009	CMONOC_II_Honghe	HHXG	101.979	23.702	-8.17	1.18	-5.88	1.26	-0.009
HHXS	100.922	24.584	-9.69	1.11	1.2	1.19	-0.029	CMONOC_II_Honghe	HHXS	100.922	24.584	-7.63	1.11	-6.27	1.19	-0.029
HHYZ	101.191	24.798	-9.56	1.23	4.39	1.3	-0.01	CMONOC_II_Honghe	HHYZ	101.191	24.798	-7.48	1.23	-3.07	1.3	-0.01
ANIN	95.902	28.801	18.19	1.11	19.07	1.11	0	Devachandra et al(2014)	ANIN	95.902	28.801	19.94	1.11	11.52	1.11	0
HAYU	96.52	28.082	15.4	1.23	19.12	1.26	0	Devachandra et al(2014)	HAYU	96.52	28.082	17.19	1.23	11.58	1.26	0
KNGR	96.359	27.756	22.76	1.17	15.74	1.18	0	Devachandra et al(2014)	KNGR	96.359	27.756	24.54	1.17	8.19	1.18	0
RALI	95.855	28.449	21.25	1.18	17.41	1.21	0	Devachandra et al(2014)	RALI	95.855	28.449	23	1.18	9.86	1.21	0
TDNG	96.396	27.973	21.4	1.1	17.09	1.1	0	Devachandra et al(2014)	TDNG	96.396	27.973	23.18	1.1	9.54	1.1	0
TWGN	95.834	28.224	23.74	1.14	19.67	1.22	0	Devachandra et al(2014)	TWGN	95.834	28.224	25.49	1.14	12.12	1.22	0
CMA1	103.588	21.314	-4.83	1.18	6.644	1.2	0	Duong et al(2013)	CMA1	103.588	21.314	-2.61	1.18	-0.756	1.2	0
CUT1	103.66	21.754	-4.211	1.11	7.416	1.29	0	Duong et al(2013)	CUT1	103.66	21.754	-1.981	1.11	0.016	1.29	0

DON1	103.051	22.131	-5.655	0.99	7.158	1.09	0	Duong et al(2013)	DON1	103.051	22.131	-3.465	0.99	-0.252	1.09	0
DTB1	103.942	21.312	-3.74	1.13	7.058	1.2	0	Duong et al(2013)	DTB1	103.942	21.312	-1.5	1.13	-0.332	1.2	0
HAM1	103.236	21.931	-4.818	1.02	7.383	1.22	0	Duong et al(2013)	HAM1	103.236	21.931	-2.618	1.02	-0.027	1.22	0
LEM1	103.029	21.792	-5.761	1.06	7.188	1.05	0	Duong et al(2013)	LEM1	103.029	21.792	-3.571	1.06	-0.222	1.05	0
MHA1	105.045	20.624	-4.973	1.16	8.469	1.24	0	Duong et al(2013)	MHA1	105.045	20.624	-2.663	1.16	1.099	1.24	0
MON1	104.245	21.189	-4.673	1.11	7.782	1.05	0	Duong et al(2013)	MON1	104.245	21.189	-2.413	1.11	0.392	1.05	0
NAD1	104.166	20.983	-3.884	1.09	6.899	1.09	0	Duong et al(2013)	NAD1	104.166	20.983	-1.634	1.09	-0.481	1.09	0
NAH2	104.005	21.059	-4.324	1.14	6.286	1.14	0	Duong et al(2013)	NAH2	104.005	21.059	-2.074	1.14	-1.104	1.14	0
NAN1	103.108	21.497	-4.451	1.12	6.918	1.32	0	Duong et al(2013)	NAN1	103.108	21.497	-2.261	1.12	-0.492	1.32	0
NGA1	103.242	22.268	-5.117	1.1	7.153	1.1	0	Duong et al(2013)	NGA1	103.242	22.268	-2.917	1.1	-0.257	1.1	0
NOI1	104.172	21.131	-4.182	1.11	7.584	1.05	0	Duong et al(2013)	NOI1	104.172	21.131	-1.922	1.11	0.194	1.05	0
NSA1	104.044	21.204	-3.614	1.12	6.972	1.19	0	Duong et al(2013)	NSA1	104.044	21.204	-1.364	1.12	-0.418	1.19	0
PLA1	103.631	21.542	-4.719	1.16	6.924	1.17	0	Duong et al(2013)	PLA1	103.631	21.542	-2.499	1.16	-0.476	1.17	0
TCO1	104.011	21.113	-3.923	1.08	6.28	1.09	0	Duong et al(2013)	TCO1	104.011	21.113	-1.673	1.08	-1.11	1.09	0
TGA1	103.405	21.582	-4.476	1.19	6.822	1.14	0	Duong et al(2013)	TGA1	103.405	21.582	-2.266	1.19	-0.578	1.14	0
TPU1	104.031	21.473	-5.318	1.08	8.047	1.08	0	Duong et al(2013)	TPU1	104.031	21.473	-3.068	1.08	0.657	1.08	0
TSN1	105.269	20.872	-4.918	1.2	8.154	1.22	0	Duong et al(2013)	TSN1	105.269	20.872	-2.598	1.2	0.784	1.22	0
AGLN	95.845	28.567	21.63	2.9	21.46	2.1	-0.035	Gupta et al(2015)	AGLN	95.845	28.567	23.38	2.9	13.91	2.1	-0.035
BALK	95.847	28.091	26.73	2.6	16.22	1.8	-0.072	Gupta et al(2015)	BALK	95.847	28.091	28.48	2.6	8.67	1.8	-0.072
BMJR	95.665	28.159	26.05	2.7	22.3	1.9	-0.054	Gupta et al(2015)	BMJR	95.665	28.159	27.79	2.7	14.74	1.9	-0.054
CPKW	95.766	27.912	24.19	2.3	20.09	1.35	-0.127	Gupta et al(2015)	CPKW	95.766	27.912	25.93	2.3	12.54	1.35	-0.127
DMBK	95.616	28.27	22.81	2.5	22.28	1.7	-0.041	Gupta et al(2015)	DMBK	95.616	28.27	24.55	2.5	14.72	1.7	-0.041
MY65	95.913	28.28	22.82	2.5	19.39	1.54	-0.097	Gupta et al(2015)	MY65	95.913	28.28	24.57	2.5	11.84	1.54	-0.097
PTCM	95.745	28.316	23.88	2.7	22.94	2	-0.14	Gupta et al(2015)	PTCM	95.745	28.316	25.62	2.7	15.38	2	-0.14
RON1	95.845	28.147	23.21	3	18	2.3	0.01	Gupta et al(2015)	RON1	95.845	28.147	24.96	3	10.45	2.3	0.01
THGM	96.332	27.913	22.22	2.8	15.99	2.1	-0.036	Gupta et al(2015)	THGM	96.332	27.913	24	2.8	8.44	2.1	-0.036
WALG	97.016	28.131	11.01	1.16	16.23	1.17	0	Gupta et al(2015)	WALG	97.016	28.131	12.83	1.16	8.69	1.17	0
BAV1	105.373	21.097	-2.617	1.21	5.845	1.23	0	Tran et al(2012)	BAV1	105.373	21.097	-0.297	1.21	-1.525	1.23	0
DOI0	105.202	21.677	-3.41	1.3	7.307	1.31	0	Tran et al(2012)	DOI0	105.202	21.677	-1.1	1.3	-0.073	1.31	0
HOA1	105.178	20.864	-2.926	1.18	7.615	1.27	0	Tran et al(2012)	HOA1	105.178	20.864	-0.616	1.18	0.245	1.27	0
HUN1	105.33	21.361	-3.238	1.2	6.821	1.23	0	Tran et al(2012)	HUN1	105.33	21.361	-0.918	1.2	-0.549	1.23	0

LAP1	105.033	21.384	-4.092	1.2	6.581	1.23	0	Tran et al(2012)	LAP1	105.033	21.384	-1.792	1.2	-0.799	1.23	0
NAM0	104.458	21.691	-3.805	1.24	8.695	1.33	0	Tran et al(2012)	NAM0	104.458	21.691	-1.535	1.24	1.305	1.33	0
NTH0	105.186	21.475	-3.814	1.2	6.932	1.23	0	Tran et al(2012)	NTH0	105.186	21.475	-1.504	1.2	-0.448	1.23	0
OAN0	105.336	21.853	-3.397	1.29	7.131	1.31	0	Tran et al(2012)	OAN0	105.336	21.853	-1.077	1.29	-0.249	1.31	0
QT02	106.791	20.696	-4.409	1.16	8.668	1.38	0	Tran et al(2012)	QT02	106.791	20.696	-2.009	1.16	1.328	1.38	0
SOC1	105.826	21.308	-3.375	1.2	6.593	1.22	0	Tran et al(2012)	SOC1	105.826	21.308	-1.025	1.2	-0.767	1.22	0
SON1	105.181	21.191	-3.715	1.2	6.487	1.22	0	Tran et al(2012)	SON1	105.181	21.191	-1.405	1.2	-0.883	1.22	0
TAM2	105.638	21.455	-3.722	1.26	6.11	1.28	0	Tran et al(2012)	TAM2	105.638	21.455	-1.382	1.26	-1.26	1.28	0
XUY0	105.738	21.849	-3.918	1.24	8.614	1.32	0	Tran et al(2012)	XUY0	105.738	21.849	-1.578	1.24	1.244	1.32	0
BHAB	97.408	24.331	-4.55	1.39	-0.37	1.43	0.06	Vernant et al(2014)	BHAB	97.408	24.331	-2.7	1.39	-7.88	1.43	0.06
BMZ1	96.886	30.055	-4.42	1.11	19.44	1.21	0	Vernant et al(2014)	BMZ1	96.886	30.055	-2.61	1.11	11.9	1.21	0
BODA	96.111	22.36	6.363	1.8	-0.737	1.8	-0.012	Vernant et al(2014)	BODA	96.111	22.36	8.133	1.8	-8.247	1.8	-0.012
CHAU	95.919	21.672	14.392	1.6	-2.054	1.7	-0.011	Vernant et al(2014)	CHAU	95.919	21.672	16.142	1.6	-9.554	1.7	-0.011
HTIS	95.595	21.962	17.91	1.6	-0.41	1.7	0.032	Vernant et al(2014)	HTIS	95.595	21.962	19.64	1.6	-7.92	1.7	0.032
INND	95.872	23.799	16.591	1.34	-0.082	1.37	0.007	Vernant et al(2014)	INND	95.872	23.799	18.341	1.34	-7.612	1.37	0.007
KATH	96.329	24.177	0.53	1.39	1.79	1.42	0.055	Vernant et al(2014)	KATH	96.329	24.177	2.31	1.39	-5.74	1.42	0.055
KINV	96.323	21.473	0.695	1.8	-0.354	1.9	0.014	Vernant et al(2014)	KINV	96.323	21.473	2.475	1.8	-7.844	1.9	0.014
KUNT	96.317	22.324	3.83	1.7	-2.58	1.8	0.031	Vernant et al(2014)	KUNT	96.317	22.324	5.61	1.7	-10.08	1.8	0.031
LEGY	95.757	21.986	14.96	1.7	-0.58	1.7	0.029	Vernant et al(2014)	LEGY	95.757	21.986	16.7	1.7	-8.09	1.7	0.029
MOGA	96.806	25.325	-0.13	1.38	-0.6	1.42	0.056	Vernant et al(2014)	MOGA	96.806	25.325	1.68	1.38	-8.13	1.42	0.056
MYOT	95.716	21.691	16.85	1.7	-0.86	1.7	0.028	Vernant et al(2014)	MYOT	95.716	21.691	18.59	1.7	-8.36	1.7	0.028
NAMT	97.024	25.359	-0.66	1.38	-0.95	1.42	0.061	Vernant et al(2014)	NAMT	97.024	25.359	1.16	1.38	-8.48	1.42	0.061
NAMY	96.562	25.626	14.387	1.34	7.056	1.37	0.006	Vernant et al(2014)	NAMY	96.562	25.626	16.177	1.34	-0.474	1.37	0.006
NYAN	96.081	21.636	12.694	2	2.418	2.1	-0.035	Vernant et al(2014)	NYAN	96.081	21.636	14.464	2	-5.082	2.1	-0.035
PEIN	96.043	23.929	15.25	1.38	2.91	1.42	0.057	Vernant et al(2014)	PEIN	96.043	23.929	17.01	1.38	-4.62	1.42	0.057
PHAK	96.318	25.615	14.995	1.34	7.573	1.36	0.005	Vernant et al(2014)	PHAK	96.318	25.615	16.775	1.34	0.033	1.36	0.005
PUTA	97.4	27.35	-4.427	1.34	9.549	1.36	0.004	Vernant et al(2014)	PUTA	97.4	27.35	-2.577	1.34	2.019	1.36	0.004
RWZ1	96.763	29.505	-3.45	1.19	16.06	1.27	-0.009	Vernant et al(2014)	RWZ1	96.763	29.505	-1.64	1.19	8.52	1.27	-0.009
SAYE	95.919	21.991	14.692	1.23	2.019	1.26	0.005	Vernant et al(2014)	SAYE	95.919	21.991	16.442	1.23	-5.481	1.26	0.005
TANA	96.73	26.332	12.389	1.34	9.221	1.36	0.005	Vernant et al(2014)	TANA	96.73	26.332	14.199	1.34	1.681	1.36	0.005
TAUN	97.094	20.75	-1.708	1.6	3.01	1.7	0.027	Vernant et al(2014)	TAUN	97.094	20.75	0.122	1.6	-4.46	1.7	0.027

THIT	95.809	22.162	16.47	1.8	-1.35	1.8	0.025	Vernant et al(2014)	THIT	95.809	22.162	18.22	1.8	-8.86	1.8	0.025
TNYO	95.981	21.934	11.13	1.8	-1.2	1.9	0.025	Vernant et al(2014)	TNYO	95.981	21.934	12.89	1.8	-8.7	1.9	0.025
WETL	95.778	22.367	12.671	1.6	-1.371	1.62	0	Vernant et al(2014)	WETL	95.778	22.367	14.421	1.6	-8.881	1.62	0
WUNT	95.75	23.848	17.45	1.38	3.37	1.42	0.058	Vernant et al(2014)	WUNT	95.75	23.848	19.19	1.38	-4.16	1.42	0.058
YWEN	96.535	22.06	-0.433	1.52	-1.704	1.55	0	Vernant et al(2014)	YWEN	96.535	22.06	1.357	1.52	-9.204	1.55	0
ZIBI	96.321	21.89	2.216	1.6	-0.974	1.7	-0.004	Vernant et al(2014)	ZIBI	96.321	21.89	3.996	1.6	-8.474	1.7	-0.004
ZMZ1	95.738	29.87	1.04	1.19	20.33	1.44	-0.006	Vernant et al(2014)	ZMZ1	95.738	29.87	2.78	1.19	12.78	1.44	-0.006
ZUG1	97.778	29.727	-5.26	1.33	15.1	1.43	0.002	Vernant et al(2014)	ZUG1	97.778	29.727	-3.39	1.33	7.58	1.43	0.002

Table S3. GPS stations in the South China Block used to define the Euler Vector for transformation of reference frame (velocity in mm/yr)															
In Eurasia-Fixed Reference Frame								In South China Block-Fixed Reference Frame							
Site	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Cne	Site	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Cne
CQCS	107.232	29.905	-2.46	1.05	8.01	1.14	0	CQCS	107.232	29.905	-0.03	1.05	0.67	1.14	0
CQWZ	108.49	30.77	-2.01	1.11	7.67	1.11	0	CQWZ	108.49	30.77	0.49	1.11	0.36	1.11	0
F031	110.367	31.017	-3.08	1.28	5.97	1.18	0	F031	110.367	31.017	-0.48	1.28	-1.29	1.18	0
F033	113.168	29.386	-2.81	1.35	6.09	1.31	0	F033	113.168	29.386	-0.06	1.35	-1.13	1.31	0
F034	112.563	26.911	-3.01	2	6.32	3.2	0	F034	112.563	26.911	-0.3	2	-0.93	3.2	0
F037	113.563	24.814	-3.13	1.19	6.12	1.17	0	F037	113.563	24.814	-0.36	1.19	-1.12	1.17	0
F038	111.346	23.542	-2.23	1.36	6.71	1.21	0	F038	111.346	23.542	0.42	1.36	-0.58	1.21	0
F042	113.896	22.588	-2.89	1.23	6.09	1.14	0	F042	113.896	22.588	-0.11	1.23	-1.15	1.14	0
F044	112.688	22.338	-2.65	1.12	6.8	1.22	0	F044	112.688	22.338	0.07	1.12	-0.46	1.22	0
F047	111.563	22.786	-2.02	1.18	7.65	1.19	0	F047	111.563	22.786	0.64	1.18	0.37	1.19	0
F049	110.141	22.688	-1.75	1.02	6.71	1.22	0	F049	110.141	22.688	0.84	1.02	-0.6	1.22	0
F055	109.049	32.694	-2.6	1.14	7.76	1.39	0	F055	109.049	32.694	-0.07	1.14	0.49	1.39	0
F056	109.48	30.232	-2.51	1.15	7.1	1.15	0	F056	109.48	30.232	0.04	1.15	-0.19	1.15	0
F057	110.555	27.911	-2.27	1.11	7.42	1.25	0	F057	110.555	27.911	0.34	1.11	0.13	1.25	0
F058	108.295	27.875	-2.32	1.15	7.05	1.15	0	F058	108.295	27.875	0.17	1.15	-0.29	1.15	0

F059	108.169	23.751	-2.34	1.12	7.55	1.27	0	F059	108.169	23.751	0.14	1.12	0.21	1.27	0
F060	108.297	23.149	-2.3	1.15	7.31	1.32	0	F060	108.297	23.149	0.19	1.15	-0.03	1.32	0
F062	107.82	22.326	-2.05	1.11	6.96	1.22	0	F062	107.82	22.326	0.41	1.11	-0.38	1.22	0
F074	105.767	24.99	-2.35	1.06	7.77	1.3	0	F074	105.767	24.99	0	1.06	0.38	1.3	0
F075	106.581	24.406	-2.53	1.35	7.61	1.31	0	F075	106.581	24.406	-0.14	1.35	0.24	1.31	0
F078	107.14	22.862	-1.66	1.1	6.94	1.3	0	F078	107.14	22.862	0.76	1.1	-0.42	1.3	0
F080	104.921	26.567	-2.22	1.17	7.77	1.19	0	F080	104.921	26.567	0.08	1.17	0.36	1.19	0
F362	104.934	25.073	-2.84	1.7	7.91	1.61	0	F362	104.934	25.073	-0.54	1.7	0.51	1.61	0
F363	105.046	25.739	-2.28	1.9	7.96	1.7	0	F363	105.046	25.739	0.02	1.9	0.56	1.7	0
F364	105.034	27.85	-1.91	1.31	8.16	1.28	0	F364	105.034	27.85	0.39	1.31	0.76	1.28	0
F367	105.412	29.902	-1.76	1.31	6.57	1.9	0	F367	105.412	29.902	0.57	1.31	-0.81	1.9	0
F368	105.426	24.354	-2.41	1.46	8.16	1.3	0	F368	105.426	24.354	-0.08	1.46	0.77	1.3	0
F369	105.615	27.155	-2.41	1.7	8.1	1.54	0	F369	105.615	27.155	-0.07	1.7	0.71	1.54	0
F370	105.929	26.261	-2.43	1.43	8.06	2.6	0	F370	105.929	26.261	-0.07	1.43	0.67	2.6	0
F373	106.355	29.415	-2.63	1.8	7.65	1.48	0	F373	106.355	29.415	-0.25	1.8	0.28	1.48	0
F374	106.539	27.556	-1.93	1.52	6.87	1.49	0	F374	106.539	27.556	0.46	1.52	-0.5	1.49	0
F377	106.73	25.442	-2.6	1.4	7.84	1.21	0	F377	106.73	25.442	-0.2	1.4	0.47	1.21	0
F378	106.903	32.426	-1.89	2	6.97	1.9	0	F378	106.903	32.426	0.52	2	-0.35	1.9	0
F379	107.081	29.15	-2.55	1.9	7.48	1.8	0	F379	107.081	29.15	-0.13	1.9	0.13	1.8	0
F381	107.402	24.196	-2.72	1.22	7.86	1.8	0	F381	107.402	24.196	-0.28	1.22	0.5	1.8	0
F382	107.414	27.168	-2.21	1.37	7.42	2.3	0	F382	107.414	27.168	0.23	1.37	0.06	2.3	0
F383	107.529	31.305	-2.28	1.16	7.48	1.57	0	F383	107.529	31.305	0.16	1.16	0.16	1.57	0
F385	107.565	32.964	-2.73	1.32	7.99	1.22	0	F385	107.565	32.964	-0.28	1.32	0.69	1.22	0
F386	107.565	25.975	-2.21	1.31	7.47	2.3	0	F386	107.565	25.975	0.24	1.31	0.11	2.3	0
F391	108.146	25.211	-2.13	1.7	7.57	2.1	0	F391	108.146	25.211	0.35	1.7	0.22	2.1	0
F394	108.699	24.353	-2.22	1.6	7.78	1.62	0	F394	108.699	24.353	0.29	1.6	0.44	1.62	0
F395	108.855	31.526	-2.41	1.9	7.47	1.61	0	F395	108.855	31.526	0.11	1.9	0.18	1.61	0
F397	108.94	27.215	-2.26	1.32	7.52	1.7	0	F397	108.94	27.215	0.26	1.32	0.19	1.7	0

F399	109.263	25.059	-2.18	1.45	7.8	1.56	0	F399	109.263	25.059	0.36	1.45	0.47	1.56	0
F400	109.377	23.862	-1.8	1.7	7.49	1.3	0	F400	109.377	23.862	0.75	1.7	0.17	1.3	0
F404	109.868	27.242	-2.34	1.43	7.07	2.3	0	F404	109.868	27.242	0.23	1.43	-0.24	2.3	0
F405	109.929	29.019	-2.33	1.24	7.12	1.19	0	F405	109.929	29.019	0.25	1.24	-0.18	1.19	0
FB01	109.142	33.091	-2.48	1.9	7.95	3.2	0	FB01	109.142	33.091	0.05	1.9	0.69	3.2	0
FN01	114.7	23.72	-2.937	1.7	6.203	1.54	0.006	FN01	114.7	23.72	-0.117	1.7	-1.017	1.54	0.006
GUAN	113.34	23.185	-2.98	1	6.08	1	0	GUAN	113.34	23.185	-0.22	1	-1.17	1	0
GXBS	106.671	23.917	-2.78	1.11	8.17	1.21	0	GXBS	106.671	23.917	-0.38	1.11	0.8	1.21	0
GXHC	108.039	24.695	-2.26	1.05	8.58	1.14	0	GXHC	108.039	24.695	0.21	1.05	1.23	1.14	0
GXNN	108.147	22.568	-1.88	1.11	7.8	1.11	0	GXNN	108.147	22.568	0.6	1.11	0.46	1.11	0
GZFG	107.726	27.981	-2.26	1.09	7.04	1.09	0	GZFG	107.726	27.981	0.2	1.09	-0.31	1.09	0
GZGY	106.669	26.473	-2.45	1.05	8.27	1.14	0	GZGY	106.669	26.473	-0.05	1.05	0.9	1.14	0
GZSC	104.863	26.586	-2.09	1.09	8.23	1.09	0	GZSC	104.863	26.586	0.2	1.09	0.82	1.09	0
H012	105.457	32.018	-2.72	1.53	7.67	1.23	0	H012	105.457	32.018	-0.39	1.53	0.31	1.23	0
H043	104.782	31.487	-2.6	1.21	6.44	1.24	0	H043	104.782	31.487	-0.31	1.21	-0.94	1.24	0
H048	104.441	31.157	-3.28	1.27	7.17	1.29	0	H048	104.441	31.157	-1.01	1.27	-0.22	1.29	0
H058	104.077	30.732	-3.22	1.17	6.22	1.25	0	H058	104.077	30.732	-0.97	1.17	-1.18	1.25	0
H070	104.073	29.652	-3.42	1.32	7.7	1.13	0	H070	104.073	29.652	-1.17	1.32	0.29	1.13	0
H071	104.536	30.374	-2.65	1.16	7.246	1.23	0	H071	104.536	30.374	-0.37	1.16	-0.154	1.23	0
H402	104.092	30.43	-1.63	1.6	6.08	1.8	0	H402	104.092	30.43	0.62	1.6	-1.32	1.8	0
HNMY	109.797	27.878	-2.29	1.09	7.8	1.09	0	HNMY	109.797	27.878	0.28	1.09	0.49	1.09	0
JB20	111.312	30.786	-2.88	1.17	6.58	1.19	0	JB20	111.312	30.786	-0.23	1.17	-0.66	1.19	0
JB24	106.034	30.804	-2.85	1.19	7.32	1.16	0	JB24	106.034	30.804	-0.49	1.19	-0.04	1.16	0
JB25	106.665	26.415	-2.21	1.19	7.47	1.16	0	JB25	106.665	26.415	0.19	1.19	0.1	1.16	0
JB26	106.831	22.107	-2.471	1.16	6.515	1.23	0	JB26	106.831	22.107	-0.061	1.16	-0.845	1.23	0
LESH	103.76	29.56	-2.639	1.3	6.34	1.32	0.009	LESH	103.76	29.56	-0.409	1.3	-1.08	1.32	0.009
LUZH	105.414	28.872	-2.39	1.09	7.87	1.09	0	LUZH	105.414	28.872	-0.06	1.09	0.48	1.09	0
NEIJ	105.12	29.62	-2.951	1.3	6.226	1.32	0.009	NEIJ	105.12	29.62	-0.641	1.3	-1.164	1.32	0.009

QLAI	103.31	30.35	-2.738	1.3	6.248	1.32	0.009	QLAI	103.31	30.35	-0.538	1.3	-1.172	1.32	0.009
RENS	104.1	30.2	-3.24	1.27	7.445	1.29	0.01	RENS	104.1	30.2	-0.99	1.27	0.035	1.29	0.01
ROXI	104.43	29.46	-2.35	1.33	6.926	1.43	0.008	ROXI	104.43	29.46	-0.08	1.33	-0.474	1.43	0.008
SCBZ	106.745	31.841	-2.26	1.09	8.26	1.09	0	SCBZ	106.745	31.841	0.14	1.09	0.93	1.09	0
SCGY	105.853	32.439	-2.14	1.05	7.41	1.14	0	SCGY	105.853	32.439	0.21	1.05	0.07	1.14	0
SCJU	104.516	28.179	-2.39	1.09	7.94	1.09	0	SCJU	104.516	28.179	-0.12	1.09	0.53	1.09	0
SCNC	105.882	30.979	-3.02	1.08	8.03	1.08	0	SCNC	105.882	30.979	-0.67	1.08	0.67	1.08	0
SCSN	105.562	30.508	-2	1.08	8.34	1.08	0	SCSN	105.562	30.508	0.33	1.08	0.97	1.08	0
SNAK	108.773	32.794	-3.23	1.05	7.77	1.14	0	SNAK	108.773	32.794	-0.72	1.05	0.5	1.14	0
WUHN	114.357	30.5317	-2.9	1.08	6.79	1.09	0	WUHN	114.357	30.5317	-0.09	1.08	-0.38	1.09	0
YBIN	104.6	28.8	-1.851	1.3	7.22	1.32	0.01	YBIN	104.6	28.8	0.429	1.3	-0.19	1.32	0.01
ZHJI	104.55	31.01	-2.85	1.27	6.851	1.29	0.01	ZHJI	104.55	31.01	-0.57	1.27	-0.539	1.29	0.01

Table S4. Interpolated velocities of the points on current fault trace and extension line of undeflected fault segment, and the averages of each pair of corresponding points (velocity in mm/yr)

Points on current fault trace (Yalong-Yulong-Longmen Shan Thrust Belt)							Points on extension line of undeflected fault segment (Yalong-Yulong-Longmen Shan Thrust Belt)							Average of corresponding points (Yalong-Yulong-Longmen Shan Thrust Belt)						
Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E
LF01	104.5735	31.8104	-0.23	1.32	0.66	1.41	LL01	104.578	31.803	-0.24	1.32	0.64	1.41	LM01	104.5758	31.8067	-0.23	1.32	0.65	1.41
LF02	104.4759	31.7328	-0.12	1.32	0.77	1.36	LL02	104.4796	31.7256	-0.15	1.32	0.72	1.36	LM02	104.4778	31.7292	-0.13	1.32	0.75	1.36
LF03	104.3762	31.666	-0.50	1.30	0.42	1.35	LL03	104.3867	31.6548	-0.51	1.30	0.37	1.35	LM03	104.3815	31.6604	-0.50	1.30	0.39	1.35
LF04	104.289	31.5955	-0.91	1.28	0.01	1.35	LL04	104.2988	31.5837	-0.92	1.28	-0.03	1.34	LM04	104.2939	31.5896	-0.91	1.28	-0.01	1.35
LF05	104.1817	31.5316	-1.30	1.26	-0.34	1.35	LL05	104.1996	31.5128	-1.33	1.26	-0.45	1.34	LM05	104.1907	31.5222	-1.32	1.26	-0.39	1.35
LF06	104.0937	31.4525	-1.59	1.25	-0.58	1.39	LL06	104.1061	31.4369	-1.63	1.26	-0.71	1.38	LM06	104.0999	31.4447	-1.61	1.26	-0.64	1.38
LF07	104.0022	31.3554	-1.66	1.25	-0.43	1.51	LL07	104.0055	31.3477	-1.67	1.25	-0.46	1.51	LM07	104.0039	31.3516	-1.66	1.25	-0.45	1.51
LF08	103.8825	31.2602	-1.74	1.24	-0.11	1.78	LL08	103.8882	31.258	-1.74	1.24	-0.13	1.77	LM08	103.8853	31.2591	-1.74	1.24	-0.12	1.77
LF09	103.793	31.187	-2.01	1.23	-0.03	2.15	LL09	103.7933	31.1821	-2.02	1.23	-0.04	2.16	LM09	103.7932	31.1846	-2.02	1.23	-0.04	2.15

LF10	103.695	31.1156	-2.56	1.22	-0.04	2.78	LL10	103.6922	31.1143	-2.57	1.22	-0.04	2.79	LM10	103.6936	31.115	-2.57	1.22	-0.04	2.78
LF11	103.6012	31.0441	-2.33	1.25	-0.05	2.51	LL11	103.6019	31.0444	-2.33	1.25	-0.05	2.51	LM11	103.6016	31.0442	-2.33	1.25	-0.05	2.51
LF12	103.5117	30.9597	-1.87	1.32	-0.01	1.98	LL12	103.5085	30.9545	-1.85	1.32	-0.01	1.96	LM12	103.5101	30.9571	-1.86	1.32	-0.01	1.97
LF13	103.4158	30.89	-1.68	1.35	0.05	1.73	LL13	103.415	30.8887	-1.67	1.35	0.05	1.73	LM13	103.4154	30.8894	-1.68	1.35	0.05	1.73
LF14	103.3178	30.8146	-1.56	1.36	0.04	1.59	LL14	103.3163	30.8155	-1.56	1.36	0.05	1.59	LM14	103.317	30.815	-1.56	1.36	0.05	1.59
LF15	103.2262	30.7356	-1.50	1.38	-0.05	1.50	LL15	103.2267	30.7363	-1.50	1.38	-0.04	1.50	LM15	103.2265	30.736	-1.50	1.38	-0.04	1.50
LF16	103.1281	30.6601	-1.46	1.40	-0.09	1.45	LL16	103.1303	30.661	-1.46	1.40	-0.09	1.45	LM16	103.1292	30.6606	-1.46	1.40	-0.09	1.45
LF17	103.0322	30.5994	-1.51	1.43	-0.01	1.43	LL17	103.0337	30.5966	-1.51	1.43	-0.02	1.43	LM17	103.033	30.598	-1.51	1.43	-0.01	1.43
LF18	102.947	30.5035	-1.63	1.48	0.12	1.42	LL18	102.9465	30.504	-1.64	1.48	0.12	1.42	LM18	102.9468	30.5038	-1.64	1.48	0.12	1.42
LF19	102.8447	30.4279	-1.86	1.51	0.43	1.41	LL19	102.8424	30.4288	-1.86	1.51	0.44	1.41	LM19	102.8435	30.4284	-1.86	1.51	0.43	1.41
LF20	102.7509	30.3522	-2.05	1.50	0.96	1.38	LL20	102.7497	30.353	-2.05	1.50	0.97	1.38	LM20	102.7503	30.3526	-2.05	1.50	0.97	1.38
LF21	102.6465	30.2709	-2.05	1.49	1.76	1.41	LL21	102.6455	30.2717	-2.05	1.49	1.76	1.42	LM21	102.646	30.2713	-2.05	1.49	1.76	1.42
LF22	102.5592	30.2062	-1.90	1.60	2.06	1.64	LL22	102.5575	30.2039	-1.90	1.60	2.07	1.64	LM22	102.5584	30.2051	-1.90	1.60	2.07	1.64
LF23	102.4675	30.1248	-1.67	1.65	2.39	1.74	LL23	102.4687	30.1246	-1.67	1.65	2.38	1.74	LM23	102.4681	30.1247	-1.67	1.65	2.39	1.74
LF24	102.3674	30.047	-1.32	1.49	2.93	1.52	LL24	102.366	30.0475	-1.32	1.50	2.94	1.51	LM24	102.3667	30.0472	-1.32	1.49	2.93	1.51
LF25	102.3013	29.945	-1.53	1.37	2.12	1.27	LL25	102.2742	29.9682	-1.42	1.45	2.64	1.28	LM25	102.2877	29.9566	-1.47	1.41	2.38	1.27
LF26	102.2374	29.8263	-2.38	1.38	1.15	1.18	LL26	102.1792	29.8923	-2.48	1.44	2.37	1.20	LM26	102.2083	29.8593	-2.43	1.41	1.76	1.19
LF27	102.1928	29.6903	-3.37	1.39	2.56	1.46	LL27	102.0843	29.8165	-3.93	1.37	2.99	1.22	LM27	102.1386	29.7534	-3.65	1.38	2.78	1.34
LF28	102.201	29.5005	-3.64	1.71	3.95	2.35	LL28	101.9894	29.7406	-5.35	1.33	3.62	1.27	LM28	102.0952	29.6206	-4.50	1.52	3.79	1.81
LF29	102.2239	29.2941	-4.33	1.57	3.95	1.79	LL29	101.8944	29.6647	-6.74	1.37	4.08	1.43	LM29	102.0592	29.4794	-5.53	1.47	4.02	1.61
LF30	102.1959	29.1527	-4.82	1.95	2.71	1.55	LL30	101.7995	29.5888	-7.93	1.38	4.53	1.56	LM30	101.9977	29.3708	-6.38	1.67	3.62	1.56
LF31	102.1276	29.0334	-5.92	1.74	3.28	1.54	LL31	101.7045	29.513	-8.90	1.36	4.99	1.68	LM31	101.9161	29.2732	-7.41	1.55	4.13	1.61
LF32	102.0862	28.9028	-6.60	1.59	4.01	1.56	LL32	101.6096	29.4371	-9.79	1.31	5.51	1.83	LM32	101.8479	29.17	-8.20	1.45	4.76	1.70
LF33	102.0463	28.7817	-6.98	1.57	4.52	1.65	LL33	101.5146	29.3612	-10.79	1.21	6.15	2.07	LM33	101.7805	29.0714	-8.88	1.39	5.33	1.86
LF34	101.9768	28.67	-7.13	1.52	5.22	1.84	LL34	101.4197	29.2854	-10.65	1.23	6.20	1.87	LM34	101.6983	28.9777	-8.89	1.37	5.71	1.86
LF35	101.918	28.5657	-7.99	1.43	5.12	1.74	LL35	101.3247	29.2095	-10.29	1.27	6.08	1.64	LM35	101.6214	28.8876	-9.14	1.35	5.60	1.69
LF36	101.8494	28.4607	-9.04	1.37	4.85	1.53	LL36	101.2298	29.1336	-10.13	1.31	5.92	1.53	LM36	101.5396	28.7972	-9.58	1.34	5.39	1.53
LF37	101.7724	28.3584	-9.71	1.38	4.82	1.45	LL37	101.1349	29.0577	-10.07	1.35	5.74	1.50	LM37	101.4537	28.7081	-9.89	1.36	5.28	1.48

LF38	101.721	28.2413	-10.08	1.38	4.68	1.41	LL38	101.0399	28.9819	-10.07	1.39	5.54	1.49	LM38	101.3805	28.6116	-10.07	1.39	5.11	1.45
LF39	101.6407	28.1214	-10.09	1.37	4.41	1.40	LL39	100.945	28.906	-10.11	1.44	5.33	1.50	LM39	101.2928	28.5137	-10.10	1.41	4.87	1.45
LF40	101.5853	28.0183	-10.09	1.37	4.24	1.41	LL40	100.85	28.8301	-10.18	1.49	5.11	1.51	LM40	101.2176	28.4242	-10.13	1.43	4.67	1.46
LF41	101.5031	27.9261	-10.08	1.38	4.17	1.43	LL41	100.7551	28.7542	-10.26	1.56	4.84	1.54	LM41	101.1291	28.3402	-10.17	1.47	4.51	1.48
LF42	101.4179	27.848	-10.10	1.39	4.09	1.46	LL42	100.6601	28.6784	-10.35	1.65	4.53	1.58	LM42	101.039	28.2632	-10.23	1.52	4.31	1.52
LF43	101.2955	27.7772	-10.56	1.37	3.55	1.48	LL43	100.5652	28.6025	-10.45	1.79	4.13	1.64	LM43	100.9304	28.1899	-10.50	1.58	3.84	1.56
LF44	101.2187	27.6939	-11.13	1.33	2.84	1.48	LL44	100.4702	28.5266	-10.55	1.97	3.65	1.74	LM44	100.8444	28.1103	-10.84	1.65	3.24	1.61
LF45	101.1292	27.6116	-11.31	1.32	3.20	1.71	LL45	100.3753	28.4508	-10.68	2.01	3.35	1.74	LM45	100.7523	28.0312	-11.00	1.66	3.27	1.73
LF46	101.0355	27.5421	-11.39	1.31	3.45	1.87	LL46	100.2804	28.3749	-10.85	1.81	3.35	1.62	LM46	100.658	27.9585	-11.12	1.56	3.40	1.74
LF47	100.9588	27.4586	-11.37	1.29	2.83	1.70	LL47	100.1848	28.2956	-11.01	1.63	3.29	1.50	LM47	100.5718	27.8771	-11.19	1.46	3.06	1.60
LF48	100.8685	27.3832	-11.32	1.26	2.19	1.56	LL48	100.0932	28.2181	-11.16	1.51	3.11	1.42	LM48	100.4809	27.8006	-11.24	1.38	2.65	1.49
LF49	100.7877	27.3018	-11.14	1.24	1.65	1.49	LL49	99.994	28.1461	-11.27	1.42	2.85	1.36	LM49	100.3909	27.724	-11.21	1.33	2.25	1.42
LF50	100.6926	27.1879	-10.62	1.23	1.11	1.51	LL50	99.8991	28.0671	-11.35	1.38	2.42	1.32	LM50	100.2959	27.6275	-10.98	1.30	1.76	1.41
Points on current fault trace (Red River Fault)							Points on extension line of undeflected fault segment (Red River Fault)							Average of corresponding points (Red River Fault)						
Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E
RF01	104.5714	21.9559	-1.35	1.21	0.35	1.33	RL01	104.5722	21.9572	-1.35	1.21	0.35	1.33	RM01	104.5718	21.9566	-1.35	1.21	0.35	1.33
RF02	104.4386	22.0814	-1.29	1.19	0.16	1.34	RL02	104.46	22.0995	-1.27	1.19	0.13	1.34	RM02	104.4493	22.0904	-1.28	1.19	0.14	1.34
RF03	104.3045	22.2059	-1.16	1.18	-0.08	1.38	RL03	104.3401	22.2347	-1.13	1.18	-0.11	1.38	RM03	104.3223	22.2203	-1.14	1.18	-0.09	1.38
RF04	104.168	22.3276	-0.92	1.18	-0.31	1.45	RL04	104.2201	22.37	-0.89	1.18	-0.34	1.44	RM04	104.1941	22.3488	-0.91	1.18	-0.33	1.44
RF05	104.045	22.4587	-0.48	1.21	-0.57	1.60	RL05	104.1002	22.5053	-0.52	1.19	-0.59	1.54	RM05	104.0726	22.482	-0.50	1.20	-0.58	1.57
RF06	103.9194	22.5903	-0.07	1.18	-0.83	1.64	RL06	103.9802	22.6405	-0.21	1.12	-0.84	1.51	RM06	103.9498	22.6154	-0.14	1.15	-0.84	1.58
RF07	103.7926	22.714	-0.21	0.89	-1.02	1.16	RL07	103.8603	22.7758	-0.18	0.85	-1.08	1.11	RM07	103.8264	22.7449	-0.19	0.87	-1.05	1.14
RF08	103.6382	22.8168	-0.08	0.64	-1.22	0.81	RL08	103.7403	22.9111	0.24	0.43	-1.46	0.57	RM08	103.6893	22.864	0.08	0.53	-1.34	0.69
RF09	103.4849	22.9296	-0.15	0.71	-1.16	0.83	RL09	103.6204	23.0463	0.19	0.48	-1.44	0.58	RM09	103.5527	22.9879	0.02	0.60	-1.30	0.70
RF10	103.3352	23.0323	-0.39	0.89	-0.93	0.98	RL10	103.5004	23.1816	-0.25	0.98	-1.05	1.08	RM10	103.4178	23.1069	-0.32	0.93	-0.99	1.03
RF11	103.1477	23.1022	-0.65	0.79	-0.61	0.87	RL11	103.3805	23.3169	-0.41	1.49	-0.79	1.59	RM11	103.2641	23.2096	-0.53	1.14	-0.70	1.23
RF12	102.951	23.1716	-2.18	1.00	-1.95	1.09	RL12	103.2605	23.4521	-0.99	0.98	-1.42	1.02	RM12	103.1058	23.3119	-1.58	0.99	-1.68	1.05

RF13	102.7649	23.2508	-3.21	1.18	-2.89	1.36	RL13	103.1406	23.5874	-1.79	1.05	-1.97	1.04	RM13	102.9528	23.4191	-2.50	1.11	-2.43	1.20
RF14	102.5691	23.314	-3.22	1.24	-2.83	1.72	RL14	103.0206	23.7227	-2.56	1.30	-2.59	1.19	RM14	102.7949	23.5183	-2.89	1.27	-2.71	1.46
RF15	102.369	23.3785	-4.02	1.22	-3.03	1.82	RL15	102.9007	23.858	-3.00	1.54	-2.27	1.29	RM15	102.6349	23.6183	-3.51	1.38	-2.65	1.56
RF16	102.1811	23.4545	-5.96	1.20	-3.60	1.50	RL16	102.7807	23.9932	-4.32	1.38	-1.86	1.22	RM16	102.4809	23.7238	-5.14	1.29	-2.73	1.36
RF17	102.0253	23.5564	-7.85	1.14	-4.14	1.28	RL17	102.6608	24.1285	-6.85	1.17	-2.46	1.21	RM17	102.3431	23.8424	-7.35	1.15	-3.30	1.25
RF18	101.8749	23.6657	-7.45	1.17	-2.80	1.25	RL18	102.5408	24.2638	-9.27	1.26	-4.76	1.20	RM18	102.2079	23.9648	-8.36	1.21	-3.78	1.23
RF19	101.7495	23.7972	-7.66	1.17	-4.57	1.26	RL19	102.4208	24.399	-9.14	1.33	-5.21	1.39	RM19	102.0852	24.0981	-8.40	1.25	-4.89	1.33
RF20	101.639	23.9407	-7.86	1.18	-6.31	1.29	RL20	102.3009	24.5343	-8.63	1.32	-4.90	1.49	RM20	101.97	24.2375	-8.25	1.25	-5.60	1.39
RF21	101.5294	24.0855	-7.75	1.22	-5.76	1.27	RL21	102.1809	24.6696	-9.33	1.18	-4.39	1.28	RM21	101.8551	24.3775	-8.54	1.20	-5.08	1.27
RF22	101.4197	24.2295	-7.74	1.25	-5.94	1.29	RL22	102.061	24.8048	-8.48	1.28	-6.71	1.50	RM22	101.7404	24.5172	-8.11	1.26	-6.32	1.39
RF23	101.3059	24.371	-7.83	1.24	-6.32	1.30	RL23	101.941	24.9401	-8.75	1.57	-6.25	2.12	RM23	101.6234	24.6555	-8.29	1.40	-6.28	1.71
RF24	101.1929	24.5116	-7.89	1.20	-6.34	1.26	RL24	101.8211	25.0754	-8.96	1.50	-4.96	2.00	RM24	101.507	24.7935	-8.43	1.35	-5.65	1.63
RF25	101.0775	24.6489	-7.69	1.18	-5.49	1.26	RL25	101.7011	25.2106	-9.07	1.28	-3.57	1.59	RM25	101.3893	24.9297	-8.38	1.23	-4.53	1.43
RF26	100.9554	24.7839	-8.07	1.22	-5.26	1.37	RL26	101.5812	25.3459	-8.24	1.22	-2.82	1.79	RM26	101.2683	25.0649	-8.15	1.22	-4.04	1.58
RF27	100.8332	24.9172	-8.51	1.22	-5.44	1.43	RL27	101.4612	25.4812	-8.67	1.15	-2.32	1.47	RM27	101.1472	25.1992	-8.59	1.19	-3.88	1.45
RF28	100.7103	25.0496	-8.32	1.17	-5.21	1.44	RL28	101.3413	25.6164	-8.96	1.08	-1.83	1.26	RM28	101.0258	25.333	-8.64	1.13	-3.52	1.35
RF29	100.5923	25.1871	-7.78	1.14	-5.26	1.42	RL29	101.2213	25.7517	-8.91	1.09	-1.28	1.30	RM29	100.9068	25.4694	-8.35	1.11	-3.27	1.36
RF30	100.4744	25.326	-7.50	1.12	-6.12	1.29	RL30	101.1014	25.887	-8.53	1.17	-0.61	1.55	RM30	100.7879	25.6065	-8.01	1.14	-3.37	1.42
RF31	100.3581	25.4617	-10.20	1.20	-6.42	1.22	RL31	100.9814	26.0223	-7.79	1.25	0.41	1.86	RM31	100.6697	25.742	-8.99	1.22	-3.01	1.54
RF32	100.2435	25.601	-9.64	1.00	-5.07	1.00	RL32	100.8615	26.1575	-7.69	1.29	0.73	1.99	RM32	100.5525	25.8792	-8.66	1.14	-2.17	1.50
RF33	100.1288	25.7409	-9.84	1.18	-5.26	1.13	RL33	100.7415	26.2928	-9.39	1.26	-0.81	1.74	RM33	100.4351	26.0168	-9.61	1.22	-3.03	1.44
RF34	100.0125	25.8822	-9.69	1.43	-5.67	1.35	RL34	100.6216	26.4281	-10.18	1.31	-1.51	1.93	RM34	100.317	26.1551	-9.93	1.37	-3.59	1.64
RF35	99.8971	26.021	-7.68	1.89	-6.12	1.87	RL35	100.5016	26.5633	-10.05	1.29	-0.78	1.62	RM35	100.1994	26.2921	-8.87	1.59	-3.45	1.74
RF36	99.8024	26.1799	-8.66	1.90	-5.78	2.02	RL36	100.3817	26.6986	-10.39	1.27	-1.02	1.51	RM36	100.0921	26.4393	-9.53	1.59	-3.40	1.76
RF37	99.7143	26.3438	-10.81	1.88	-5.41	2.24	RL37	100.2617	26.8339	-11.76	1.21	-1.94	1.36	RM37	99.988	26.5889	-11.29	1.55	-3.68	1.80
RF38	99.6379	26.5157	-11.32	1.68	-4.77	2.27	RL38	100.1418	26.9691	-13.14	1.19	-2.12	1.25	RM38	99.8898	26.7424	-12.23	1.43	-3.44	1.76
RF39	99.5523	26.6821	-10.92	1.45	-3.66	2.00	RL39	100.0218	27.1044	-13.58	1.18	-1.68	1.27	RM39	99.787	26.8932	-12.25	1.31	-2.67	1.63
RF40	99.4576	26.8408	-10.62	1.33	-3.00	1.71	RL40	99.9019	27.2397	-12.22	1.25	-0.76	1.39	RM40	99.6797	27.0403	-11.42	1.29	-1.88	1.55

RF41	99.3588	26.9963	-10.38	1.24	-2.65	1.50	RL41	99.7819	27.3749	-11.62	1.23	-0.44	1.36	RM41	99.5703	27.1856	-11.00	1.23	-1.54	1.43
RF42	99.2591	27.1486	-10.12	1.17	-2.36	1.33	RL42	99.6619	27.5102	-11.14	1.24	0.08	1.36	RM42	99.4605	27.3294	-10.63	1.20	-1.14	1.34
RF43	99.1603	27.3067	-9.52	1.19	-1.69	1.27	RL43	99.542	27.6455	-10.42	1.33	1.28	1.46	RM43	99.3512	27.4761	-9.97	1.26	-0.20	1.37
RF44	99.0689	27.4586	-9.37	1.26	-0.54	1.45	RL44	99.422	27.7807	-9.20	1.54	3.41	1.69	RM44	99.2455	27.6197	-9.29	1.40	1.44	1.57
RF45	98.9783	27.6273	-9.19	1.17	0.24	1.23	RL45	99.3021	27.916	-9.09	1.73	2.95	1.49	RM45	99.1402	27.7717	-9.14	1.45	1.60	1.36
RF46	98.9418	27.837	-8.51	1.34	1.48	1.31	RL46	99.1821	28.0513	-8.67	1.89	3.16	1.43	RM46	99.0619	27.9442	-8.59	1.61	2.32	1.37
RF47	98.8928	28.0368	-8.09	1.42	2.49	1.32	RL47	99.0622	28.1866	-8.48	1.73	3.44	1.35	RM47	98.9775	28.1117	-8.28	1.57	2.97	1.33
RF48	98.838	28.2244	-7.95	1.36	3.29	1.28	RL48	98.9422	28.3218	-8.53	1.38	3.69	1.25	RM48	98.8901	28.2731	-8.24	1.37	3.49	1.27
RF49	98.8102	28.4458	-8.11	1.20	4.08	1.21	RL49	98.8223	28.4571	-8.19	1.19	4.11	1.21	RM49	98.8162	28.4515	-8.15	1.20	4.09	1.21
RF50	98.7042	28.5951	-7.24	1.25	4.78	1.24	RL50	98.7023	28.5924	-7.23	1.25	4.77	1.24	RM50	98.7032	28.5938	-7.23	1.25	4.78	1.24

Table S5. Position and backward velocity of points on current fault trace (velocity in mm/yr)															
Yalong-Yulong-Longmen Shan Thrust Belt								Red River Fault							
Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Weight [*]	Point	Long.	Lat.	Vel.N	Sig.N	Vel.E	Sig.E	Weight [*]
LF01	104.5735	31.8104	0.23	1.32	-0.65	1.41	0.268	RF01	104.5714	21.9559	1.35	1.21	-0.35	1.33	0.31
LF02	104.4759	31.7328	0.13	1.32	-0.75	1.36	0.278	RF02	104.4386	22.0814	1.28	1.19	-0.14	1.34	0.31
LF03	104.3762	31.666	0.50	1.30	-0.39	1.35	0.285	RF03	104.3045	22.2059	1.14	1.18	0.09	1.38	0.30
LF04	104.289	31.5955	0.91	1.28	0.01	1.35	0.289	RF04	104.168	22.3276	0.91	1.18	0.33	1.44	0.29
LF05	104.1817	31.5316	1.32	1.26	0.39	1.35	0.293	RF05	104.045	22.4587	0.50	1.20	0.58	1.57	0.26
LF06	104.0937	31.4525	1.61	1.26	0.64	1.38	0.286	RF06	103.9194	22.5903	0.14	1.15	0.84	1.58	0.26
LF07	104.0022	31.3554	1.66	1.25	0.45	1.51	0.260	RF07	103.7926	22.714	0.19	0.87	1.05	1.14	0.49
LF08	103.8825	31.2602	1.74	1.24	0.12	1.77	0.214	RF08	103.6382	22.8168	-0.08	0.53	1.34	0.69	1.32
LF09	103.793	31.187	2.02	1.23	0.04	2.15	0.163	RF09	103.4849	22.9296	-0.02	0.60	1.30	0.70	1.18
LF10	103.695	31.1156	2.57	1.22	0.04	2.78	0.109	RF10	103.3352	23.0323	0.32	0.93	0.99	1.03	0.52
LF11	103.6012	31.0441	2.33	1.25	0.05	2.51	0.127	RF11	103.1477	23.1022	0.53	1.14	0.70	1.23	0.36
LF12	103.5117	30.9597	1.86	1.32	0.01	1.97	0.178	RF12	102.951	23.1716	1.58	0.99	1.68	1.05	0.48

LF13	103.4158	30.89	1.68	1.35	-0.05	1.73	0.208	RF13	102.7649	23.2508	2.50	1.11	2.43	1.20	0.37
LF14	103.3178	30.8146	1.56	1.36	-0.05	1.59	0.228	RF14	102.5691	23.314	2.89	1.27	2.71	1.46	0.27
LF15	103.2262	30.7356	1.50	1.38	0.04	1.50	0.241	RF15	102.369	23.3785	3.51	1.38	2.65	1.56	0.23
LF16	103.1281	30.6601	1.46	1.40	0.09	1.45	0.246	RF16	102.1811	23.4545	5.14	1.29	2.73	1.36	0.28
LF17	103.0322	30.5994	1.51	1.43	0.01	1.43	0.245	RF17	102.0253	23.5564	7.35	1.15	3.30	1.25	0.35
LF18	102.947	30.5035	1.64	1.48	-0.12	1.42	0.238	RF18	101.8749	23.6657	8.36	1.21	3.78	1.23	0.34
LF19	102.8447	30.4279	1.86	1.51	-0.43	1.41	0.234	RF19	101.7495	23.7972	8.40	1.25	4.89	1.33	0.30
LF20	102.7509	30.3522	2.05	1.50	-0.97	1.38	0.241	RF20	101.639	23.9407	8.25	1.25	5.60	1.39	0.29
LF21	102.6465	30.2709	2.05	1.49	-1.76	1.42	0.236	RF21	101.5294	24.0855	8.54	1.20	5.08	1.27	0.33
LF22	102.5592	30.2062	1.90	1.60	-2.07	1.64	0.191	RF22	101.4197	24.2295	8.11	1.26	6.32	1.39	0.28
LF23	102.4675	30.1248	1.67	1.65	-2.39	1.74	0.174	RF23	101.3059	24.371	8.29	1.40	6.28	1.71	0.20
LF24	102.3674	30.047	1.32	1.49	-2.93	1.51	0.222	RF24	101.1929	24.5116	8.43	1.35	5.65	1.63	0.22
LF25	102.3013	29.945	1.47	1.41	-2.38	1.27	0.278	RF25	101.0775	24.6489	8.38	1.23	4.53	1.43	0.28
LF26	102.2374	29.8263	2.43	1.41	-1.76	1.19	0.294	RF26	100.9554	24.7839	8.15	1.22	4.04	1.58	0.25
LF27	102.1928	29.6903	3.65	1.38	-2.78	1.34	0.270	RF27	100.8332	24.9172	8.59	1.19	3.88	1.45	0.28
LF28	102.201	29.5005	4.50	1.52	-3.79	1.81	0.179	RF28	100.7103	25.0496	8.64	1.13	3.52	1.35	0.32
LF29	102.2239	29.2941	5.53	1.47	-4.02	1.61	0.210	RF29	100.5923	25.1871	8.35	1.11	3.27	1.36	0.32
LF30	102.1959	29.1527	6.38	1.67	-3.62	1.56	0.192	RF30	100.4744	25.326	8.01	1.14	3.37	1.42	0.30
LF31	102.1276	29.0334	7.41	1.55	-4.13	1.61	0.200	RF31	100.3581	25.4617	8.99	1.22	3.01	1.54	0.26
LF32	102.0862	28.9028	8.20	1.45	-4.76	1.70	0.200	RF32	100.2435	25.601	8.66	1.14	2.17	1.50	0.28
LF33	102.0463	28.7817	8.88	1.39	-5.33	1.86	0.186	RF33	100.1288	25.7409	9.61	1.22	3.03	1.44	0.28
LF34	101.9768	28.67	8.89	1.37	-5.71	1.86	0.187	RF34	100.0125	25.8822	9.93	1.37	3.59	1.64	0.22
LF35	101.918	28.5657	9.14	1.35	-5.60	1.69	0.214	RF35	99.8971	26.021	8.87	1.59	3.45	1.74	0.18
LF36	101.8494	28.4607	9.58	1.34	-5.39	1.53	0.242	RF36	99.8024	26.1799	9.53	1.59	3.40	1.76	0.18
LF37	101.7724	28.3584	9.89	1.36	-5.28	1.48	0.248	RF37	99.7143	26.3438	11.29	1.55	3.68	1.80	0.18
LF38	101.721	28.2413	10.07	1.39	-5.11	1.45	0.248	RF38	99.6379	26.5157	12.23	1.43	3.44	1.76	0.19
LF39	101.6407	28.1214	10.10	1.41	-4.87	1.45	0.245	RF39	99.5523	26.6821	12.25	1.31	2.67	1.63	0.23
LF40	101.5853	28.0183	10.13	1.43	-4.67	1.46	0.239	RF40	99.4576	26.8408	11.42	1.29	1.88	1.55	0.25

LF41	101.5031	27.9261	10.17	1.47	-4.51	1.48	0.230	RF41	99.3588	26.9963	11.00	1.23	1.54	1.43	0.28
LF42	101.4179	27.848	10.23	1.52	-4.31	1.52	0.216	RF42	99.2591	27.1486	10.63	1.20	1.14	1.34	0.31
LF43	101.2955	27.7772	10.50	1.58	-3.84	1.56	0.203	RF43	99.1603	27.3067	9.97	1.26	0.20	1.37	0.29
LF44	101.2187	27.6939	10.84	1.65	-3.24	1.61	0.188	RF44	99.0689	27.4586	9.29	1.40	-1.44	1.57	0.23
LF45	101.1292	27.6116	11.00	1.66	-3.27	1.73	0.174	RF45	98.9783	27.6273	9.14	1.45	-1.60	1.36	0.25
LF46	101.0355	27.5421	11.12	1.56	-3.40	1.74	0.183	RF46	98.9418	27.837	8.59	1.61	-2.32	1.37	0.22
LF47	100.9588	27.4586	11.19	1.46	-3.06	1.60	0.213	RF47	98.8928	28.0368	8.28	1.57	-2.97	1.33	0.24
LF48	100.8685	27.3832	11.24	1.38	-2.65	1.49	0.243	RF48	98.838	28.2244	8.24	1.37	-3.49	1.27	0.29
LF49	100.7877	27.3018	11.21	1.33	-2.25	1.42	0.264	RF49	98.8102	28.4458	8.15	1.20	-4.09	1.21	0.34
LF50	100.6926	27.1879	10.98	1.30	-1.76	1.41	0.272	RF50	98.7042	28.5951	7.23	1.25	-4.78	1.24	0.32
* $Weight = 1/(Sig.N \times Sig.N + Sig.E \times Sig.E)$															

Table S6. Points inferred from the best estimate of duration time								Table S7. Points on smoothed original fault trace							
Yalong-Yulong-Longmen Shan Thrust Belt				Red River Fault				Yalong-Yulong-Longmen Shan Thrust Belt				Red River Fault			
Point	Long.	Lat.	Weight	Point	Long.	Lat.	Weight	Point	Long.	Lat.		Point	Long.	Lat.	
LF01	104.5048	31.8311	0.268	RF01	104.5378	22.0766	0.31	LF01	104.4545	31.888		RF01	104.4761	22.0243	
LF02	104.3967	31.7445	0.278	RF02	104.4252	22.1958	0.31	LF02	104.3487	31.7989		RF02	104.3668	22.1464	
LF03	104.3351	31.7111	0.285	RF03	104.3131	22.3078	0.30	LF03	104.2922	31.7595		RF03	104.2598	22.2627	
LF04	104.2901	31.6776	0.289	RF04	104.1997	22.409	0.29	LF04	104.2488	31.7242		RF04	104.1545	22.3706	
LF05	104.2228	31.6506	0.293	RF05	104.1008	22.5034	0.26	LF05	104.1896	31.6882		RF05	104.0611	22.4698	
LF06	104.1611	31.5977	0.286	RF06	104.0003	22.6028	0.26	LF06	104.1283	31.6348		RF06	103.9653	22.5732	
LF07	104.0496	31.5051	0.260	RF07	103.8938	22.731	0.49	LF07	104.0183	31.5405		RF07	103.8582	22.7008	
LF08	103.8951	31.4171	0.214	RF08	103.7674	22.8096	1.32	LF08	103.8759	31.4389		RF08	103.7493	22.7942	
LF09	103.7972	31.3692	0.163	RF09	103.6104	22.9278	1.18	LF09	103.7876	31.3801		RF09	103.6088	22.9264	
LF10	103.6992	31.3474	0.109	RF10	103.4308	23.0609	0.52	LF10	103.7057	31.3401		RF10	103.4487	23.076	
LF11	103.6064	31.2543	0.127	RF11	103.2154	23.1496	0.36	LF11	103.6101	31.2501		RF11	103.2741	23.1993	

LF12	103.5127	31.1275	0.178	RF12	103.1136	23.3128	0.48	LF12	103.5055	31.1356		RF12	103.1617	23.3535
LF13	103.4106	31.0415	0.208	RF13	103.0004	23.4741	0.37	LF13	103.4045	31.0484		RF13	103.0417	23.5091
LF14	103.3126	30.9553	0.228	RF14	102.8319	23.5721	0.27	LF14	103.3066	30.9621		RF14	102.8981	23.6282
LF15	103.2304	30.8709	0.241	RF15	102.6262	23.692	0.23	LF15	103.2215	30.881		RF15	102.7227	23.7738
LF16	103.1375	30.7918	0.246	RF16	102.4465	23.9137	0.28	LF16	103.1293	30.801		RF16	102.5407	23.9935
LF17	103.0332	30.7356	0.245	RF17	102.3469	24.213	0.35	LF17	103.034	30.7347		RF17	102.3963	24.2549
LF18	102.9345	30.6514	0.238	RF18	102.2439	24.4125	0.34	LF18	102.936	30.6497		RF18	102.274	24.4381
LF19	102.7999	30.5957	0.234	RF19	102.2273	24.5473	0.30	LF19	102.8171	30.5761		RF19	102.2291	24.5488
LF20	102.6498	30.5371	0.241	RF20	102.1867	24.6771	0.29	LF20	102.6855	30.4968		RF20	102.1683	24.6615
LF21	102.4632	30.4557	0.236	RF21	102.027	24.848	0.33	LF21	102.5196	30.3919		RF21	102.0129	24.8361
LF22	102.3438	30.3774	0.191	RF22	102.0392	24.9531	0.28	LF22	102.407	30.306		RF22	101.9957	24.9162
LF23	102.2191	30.2752	0.174	RF23	101.9223	25.1107	0.20	LF23	102.2843	30.2015		RF23	101.874	25.0697
LF24	102.0632	30.1657	0.222	RF24	101.7482	25.264	0.22	LF24	102.1355	30.084		RF24	101.7127	25.234
LF25	102.0544	30.0774	0.278	RF25	101.5232	25.3972	0.28	LF25	102.1067	30.0183		RF25	101.5204	25.3948
LF26	102.0549	30.0454	0.294	RF26	101.3532	25.5117	0.25	LF26	102.0991	29.9954		RF26	101.3717	25.5274
LF27	101.9046	30.0193	0.270	RF27	101.2158	25.6844	0.28	LF27	101.9753	29.9393		RF27	101.2317	25.6978
LF28	101.8086	29.9059	0.179	RF28	101.0578	25.8213	0.32	LF28	101.8722	29.8339		RF28	101.086	25.8451
LF29	101.8081	29.7923	0.210	RF29	100.9155	25.9329	0.32	LF29	101.8437	29.7521		RF29	100.9575	25.9686
LF30	101.8217	29.7278	0.192	RF30	100.8077	26.0414	0.30	LF30	101.8383	29.7091		RF30	100.8544	26.0809
LF31	101.7008	29.7012	0.200	RF31	100.6564	26.2648	0.26	LF31	101.7373	29.66		RF31	100.6921	26.295
LF32	101.5946	29.6417	0.200	RF32	100.4588	26.3747	0.28	LF32	101.6397	29.5908		RF32	100.5248	26.4307
LF33	101.4962	29.5817	0.186	RF33	100.43	26.5993	0.28	LF33	101.548	29.5232		RF33	100.449	26.6155
LF34	101.3881	29.4708	0.187	RF34	100.3698	26.7691	0.22	LF34	101.4361	29.4166		RF34	100.3646	26.7646
LF35	101.3411	29.3891	0.214	RF35	100.2406	26.8132	0.18	LF35	101.3791	29.3462		RF35	100.2621	26.8314
LF36	101.2945	29.3239	0.242	RF36	100.1416	27.031	0.18	LF36	101.3265	29.2877		RF36	100.1382	27.0281
LF37	101.2292	29.2497	0.248	RF37	100.0825	27.3521	0.18	LF37	101.2572	29.2181		RF37	100.0171	27.2967
LF38	101.1958	29.1489	0.248	RF38	99.9829	27.608	0.19	LF38	101.2061	29.1373		RF38	99.8834	27.5238
LF39	101.1408	29.0318	0.245	RF39	99.8205	27.7763	0.23	LF39	101.1341	29.0394		RF39	99.7268	27.697

LF40	101.1064	28.9315	0.239	RF40	99.6466	27.861	0.25	LF40	101.0823	28.9587	RF40	99.5826	27.8068
LF41	101.041	28.843	0.230	RF41	99.5138	27.979	0.28	LF41	101.0093	28.8788	RF41	99.4594	27.9329
LF42	100.9766	28.7704	0.216	RF42	99.3739	28.0982	0.31	LF42	100.941	28.8106	RF42	99.3309	28.0618
LF43	100.9025	28.7241	0.203	RF43	99.1805	28.1974	0.29	LF43	100.8717	28.7589	RF43	99.1693	28.1879
LF44	100.8872	28.6716	0.188	RF44	98.9236	28.2885	0.23	LF44	100.8468	28.7174	RF44	98.9647	28.3233
LF45	100.7949	28.6038	0.174	RF45	98.8166	28.4437	0.25	LF45	100.7579	28.6456	RF45	98.8506	28.4725
LF46	100.6881	28.5451	0.183	RF46	98.707	28.6042	0.22	LF46	100.6599	28.5769	RF46	98.7334	28.6265
LF47	100.6464	28.468	0.213	RF47	98.5917	28.7761	0.24	LF47	100.6082	28.5111	RF47	98.6092	28.791
LF48	100.5981	28.3972	0.243	RF48	98.4836	28.96	0.29	LF48	100.553	28.4482	RF48	98.4872	28.9631
LF49	100.5583	28.3132	0.264	RF49	98.394	29.1732	0.34	LF49	100.5011	28.3779	RF49	98.3712	29.1539
LF50	100.5134	28.1786	0.272	RF50	98.2174	29.24	0.32	LF50	100.4326	28.2699	RF50	98.2295	29.2503