

DR2004137

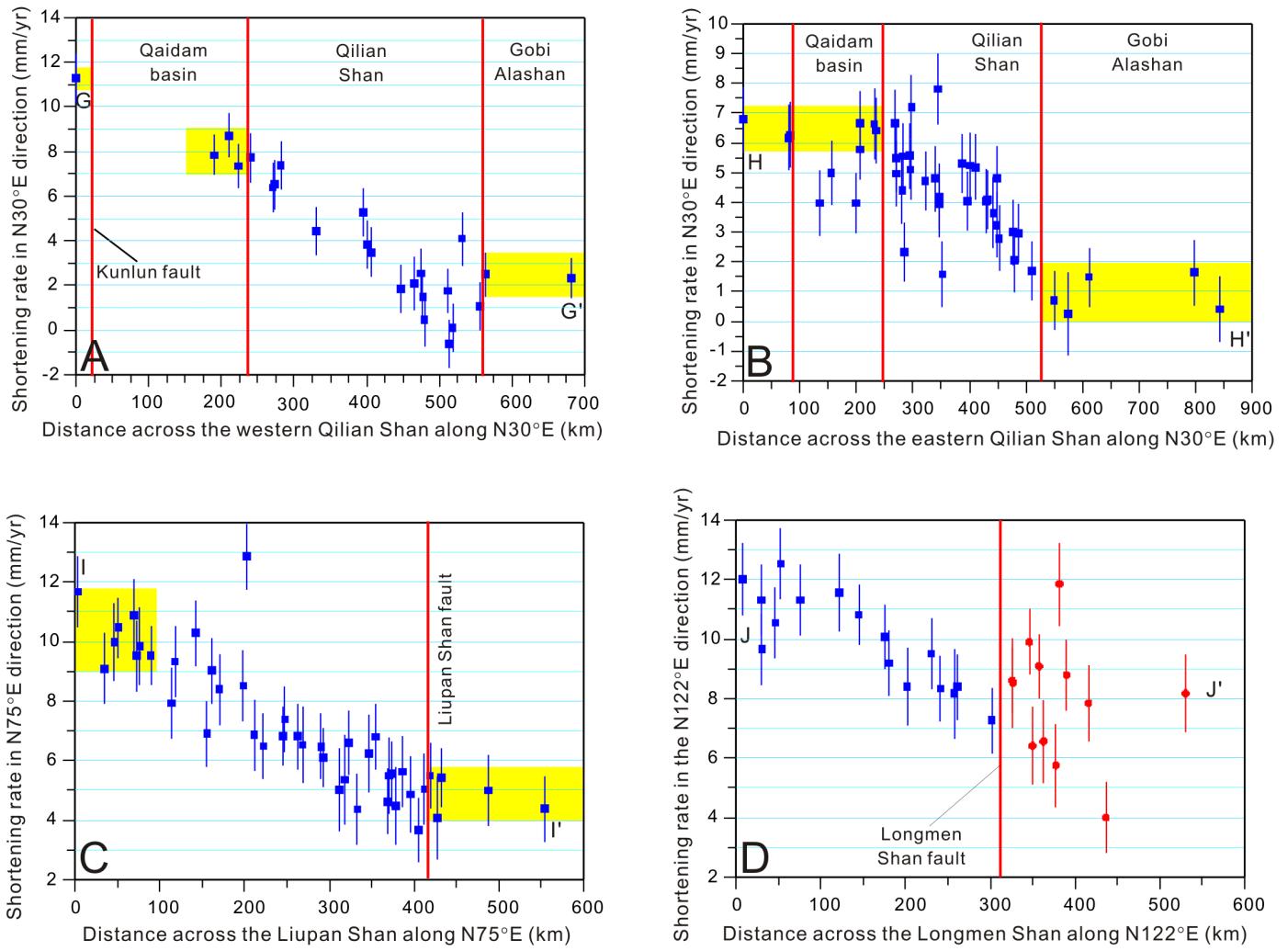


Fig. DR-1. Velocity profiles across the northern, northeastern, and eastern margins of the Tibetan Plateau. The yellow bars denote the ranges of velocity measurements. Locations of profile are shown in Fig. 1. (A) The N30°E components across the western Qaidam basin, Qilian Shan and Gobi Alashan (Profile G-G'). Shortening parallel to N30°E across the Qilian Shan is 5.5 ± 1.5 mm/yr and reaches 8.7 ± 1.8 mm/yr across the entire northeastern margin of the plateau including the Qaidam basin. (B) Components of velocity perpendicular to the northeastern margin of Tibetan Plateau across the eastern Qaidam basin, Qilian Shan, and Gobi Alashan (Profile H-H'). Shortening parallel to N30°E across the Qilian Shan is 5.5 ± 1.8 mm/yr. (C) Components of velocity across the eastern margin normal through the Liupan Shan (Profile I-I'). Thick red line represents approximate location of the Liupan Shan fault. (D) Components of velocity across the Longmen Shan (Profile J-J'). Blue diamonds are stations located within the plateau, and red dots are stations located on the Sichuan basin.

**TABLE DR-1 METHOD DESCRIPTIONS OF GPS DATA
PROCESSING AND SYNTHESIS**

The principal data used for this study come from the Crustal Movement Observation Network of China (CMONOC) collected during 1998 and 2002, including 25 continuously recording stations, 56 annually observed stations with an occupation of at least 7 days (~168 hours of data collection) in each survey, and 961 regional stations observed in 1999 and 2001 with an occupation of at least 3 days (~72 hours of data collection) in each survey.

The data were processed in four steps (Shen et al., 2000, 2001). First, we put the observation data together to solve for the daily, loosely-constrained station coordinates and satellite orbits using the GAMIT software. Second, we combined the regional daily solution with the loosely constrained global solutions of ~80 IGS tracking stations produced at the Scripps Orbital and Position Analysis Center (<http://sopac.ucsd.edu>, SOPAC) using the GLOBK software. The merged daily solution includes the loosely constrained station coordinates, polar motion and satellite orbit parameters, and the variance-covariance matrix. Third, we estimated station positions and velocities in the ITRF2000 reference frame using the QOCA software (<http://gipsy.jpl.nasa.gov/qoca>). The QOCA modeling of the data was done through sequential Kalman filtering, allowing adjustment for global translation and rotation of each daily solution. In the last step, we transformed the velocity solution to a Eurasia-fixed reference frame using the angular velocity of Eurasia with respect to the ITRF deduced from 11 IGS stations (NYAL, ONSA, HERS, WSRT, KOSG, WTZR, VILL, GLSV, IRKT, TIXI) on the stable Eurasian plate (Shen et al., 2000, 2001).

Besides the CMONOC data set, we added three additional data sets of station velocities from Paul et al., (2001), Wang et al. (2001), and Banerjee and Bürgmann (2002) to increase the coverage and station density of the India, Himalayan and central Tibetan regions. The velocity data of Paul et al. (2001) (13 stations in India and the Himalaya) are in an India-fixed reference frame, whereas those of Wang et al., (2001) (37 stations distributed in Nepal, the Himalaya, and central Tibet) are in a Eurasia-fixed reference frame. Those of Banerjee and Bürgmann (2002) (24 stations

in the western Himalaya) are in a Eurasia-fixed reference frame, which differs slightly from the Eurasia-fixed reference frame we employed. As each of the additional velocity data sets has some common stations with the CMONOC data set, we chose 6, 15 and 3 common stations for the three respective data sets to transform them to the Eurasia-fixed reference frame of the CMONOC data set, by minimizing the velocity differences of the common stations in the corresponding reference frames. After the transformation, the maximum differences of the velocities for each common station in different data sets are less than 2.9 mm/yr and 2.6 mm/yr for the east and north components, respectively, which are within the 2 standard deviations of the velocity components. Thus, we calculated the weighted average of the velocity components for the common stations and estimated their standard deviations. We finally obtain velocities for 554 stations in the Tibetan Plateau and its margins (Fig. 1 and Table DR-2).

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Table DR-2 GPS station velocities relative to the stable Eurasia

Site	Long.	Lat.	NS_rate (cm)	NS_error (cm)	EW_rate (cm)	EW_error (cm)	CVNE
CG06	102.81	24.81	-1.23	0.23	0.43	0.35	-0.05
D053	107.00	40.32	-0.17	0.11	0.43	0.11	0.00
D055	108.72	39.85	-0.34	0.11	0.52	0.11	0.01
D057	108.00	39.09	-0.27	0.10	0.47	0.10	0.00
D059	107.23	38.48	-0.42	0.10	0.63	0.11	0.00
D062	107.19	36.77	-1.12	0.12	0.10	0.14	0.01
D065	107.39	35.29	-0.31	0.10	0.60	0.12	-0.00
D073	107.58	34.43	-0.42	0.11	0.49	0.12	0.01
D074	107.38	34.47	-0.52	0.10	0.70	0.11	0.01
D081	107.64	34.07	-0.52	0.11	0.61	0.12	0.01
D082	107.29	34.09	-0.32	0.10	0.77	0.11	0.01
D083	106.75	39.92	-0.34	0.11	0.24	0.11	0.00
D084	106.81	39.68	-0.29	0.11	0.33	0.12	0.00
D085	105.76	39.75	-0.31	0.11	0.44	0.13	-0.02
D086	106.72	39.49	-0.38	0.13	0.54	0.14	0.00
D087	106.35	39.20	-0.07	0.11	0.38	0.11	0.00
D088	106.12	39.03	-0.19	0.11	0.60	0.11	0.00
D089	106.48	39.07	-0.18	0.11	0.39	0.11	0.00
D090	106.69	38.79	-0.38	0.11	0.56	0.12	0.00
D091	106.20	38.74	-0.25	0.11	0.42	0.11	0.00
D093	106.56	38.55	-0.32	0.11	0.38	0.12	0.01
D094	106.21	38.48	-0.58	0.11	0.61	0.11	0.00
D095	105.70	38.44	-0.05	0.11	0.50	0.11	0.00
D096	106.35	37.81	-0.25	0.11	0.42	0.11	0.01
D097	105.92	37.89	-0.23	0.11	0.26	0.11	0.00
D098	106.68	37.45	-0.54	0.10	0.50	0.11	0.01
DLHA	97.38	37.38	0.42	0.09	0.84	0.09	-0.00
DXIN	100.20	40.98	0.08	0.09	0.33	0.09	-0.00
F076	104.31	24.88	-0.60	0.20	0.22	0.35	0.03
F081	104.27	23.35	-0.33	0.17	-0.04	0.28	0.02
G001	105.13	38.05	-0.07	0.10	0.47	0.10	0.00
G002	105.89	37.54	-0.14	0.12	0.32	0.13	0.01
G003	105.55	37.52	-0.03	0.12	0.39	0.13	0.01
G004	105.18	37.58	-0.14	0.11	0.34	0.12	0.01
G005	105.67	37.36	-0.01	0.11	0.45	0.13	0.01

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G006	105.22	37.24	-0.14	0.11	0.48	0.13	0.01
G007	105.88	36.97	-0.07	0.11	0.72	0.12	0.01
G008	105.27	36.93	-0.26	0.10	0.54	0.11	0.01
G009	106.36	36.84	-0.22	0.11	0.53	0.14	0.00
G010	106.10	36.63	-0.27	0.12	0.50	0.13	0.01
G011	105.25	36.66	-0.31	0.11	0.64	0.12	0.00
G012	105.62	36.51	-0.49	0.12	0.78	0.14	0.02
G013	105.98	36.28	-0.26	0.11	0.53	0.13	0.01
G014	105.29	36.50	-0.32	0.10	1.00	0.11	0.01
G015	105.62	36.28	-0.30	0.11	0.82	0.13	0.01
G016	106.65	36.10	-0.33	0.12	0.51	0.14	0.03
G017	106.22	36.02	-0.40	0.11	0.69	0.12	0.02
G018	105.80	35.96	-0.50	0.11	0.78	0.13	0.01
G019	104.96	36.09	-0.24	0.12	0.74	0.13	0.01
G020	106.20	35.67	-0.21	0.12	0.52	0.13	0.03
G021	105.01	35.73	0.10	0.12	0.65	0.13	0.01
G022	106.12	35.60	-0.68	0.11	0.75	0.13	0.02
G023	105.50	35.61	-0.23	0.11	0.58	0.14	0.02
G024	106.58	35.46	-0.59	0.11	0.68	0.12	0.01
G025	106.40	35.46	-0.36	0.11	0.60	0.13	0.01
G026	105.02	35.41	-0.39	0.10	0.81	0.11	0.01
G027	106.53	35.24	-0.30	0.10	0.46	0.11	0.01
G028	106.01	35.17	-0.36	0.10	0.80	0.11	0.00
G030	105.79	35.08	-0.44	0.10	0.57	0.12	-0.01
G031	106.21	35.01	-0.47	0.10	0.70	0.11	0.01
G032	106.82	34.89	-0.40	0.10	0.67	0.10	0.00
G033	105.65	34.87	-0.62	0.13	0.72	0.15	0.02
G034	106.16	34.75	-0.49	0.10	0.61	0.11	0.01
G035	105.37	34.79	-0.37	0.10	0.77	0.11	0.00
G036	106.40	34.52	-0.35	0.10	0.67	0.10	0.00
G037	105.70	34.59	-0.51	0.10	0.82	0.11	-0.00
G038	107.14	34.43	-0.33	0.10	0.69	0.11	0.01
G039	105.81	34.25	-0.44	0.10	0.75	0.10	0.01
G040	101.06	41.96	-0.09	0.11	0.41	0.12	-0.01
G041	99.07	40.28	0.15	0.10	0.24	0.10	-0.00
G042	104.51	40.74	-0.16	0.11	0.36	0.11	-0.00
G043	104.81	40.16	-0.03	0.11	0.38	0.12	-0.00
G044	100.15	39.72	-0.09	0.11	0.37	0.12	-0.00
G045	100.79	39.61	-0.04	0.11	0.28	0.12	0.00

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G046	102.78	39.41	-0.17	0.11	0.30	0.11	0.01
G047	101.66	39.22	-0.02	0.12	0.17	0.13	0.00
G048	100.32	39.24	-0.25	0.11	0.31	0.12	0.00
G049	102.57	39.13	-0.09	0.10	0.31	0.10	0.00
G050	103.36	38.85	-0.10	0.10	0.47	0.10	0.00
G051	100.73	38.88	-0.04	0.11	0.28	0.11	-
G052	101.19	38.72	-0.08	0.11	0.32	0.11	-0.01
G053	103.19	38.54	-0.18	0.14	0.36	0.15	0.02
G054	100.35	38.61	0.09	0.10	0.44	0.10	-0.00
G055	101.35	38.16	0.06	0.11	0.59	0.13	-0.01
G056	102.89	38.42	-0.19	0.10	0.47	0.11	0.01
G057	102.15	38.43	0.03	0.12	0.42	0.12	0.00
G058	101.74	38.30	-	0.11	0.57	0.11	0.00
G059	100.83	38.35	0.08	0.11	0.42	0.11	-0.00
G060	102.11	38.28	-0.01	0.11	0.54	0.12	-0.01
G061	102.26	38.14	-0.06	0.11	0.41	0.12	0.00
G062	100.24	38.18	0.10	0.10	0.41	0.10	-0.00
G063	102.64	37.78	-0.03	0.11	0.65	0.11	0.01
G064	102.32	37.96	0.15	0.11	0.38	0.12	-0.01
G065	100.94	37.97	-0.07	0.11	0.49	0.11	0.00
G066	102.62	37.51	0.07	0.11	0.84	0.12	0.00
G067	104.33	37.45	-0.11	0.10	0.53	0.10	0.01
G068	103.38	37.56	0.04	0.10	0.52	0.10	0.01
G069	102.85	37.44	-0.03	0.11	0.61	0.12	0.00
G070	101.40	37.46	0.08	0.10	0.93	0.11	0.00
G071	100.43	37.61	0.13	0.11	0.83	0.11	0.01
G072	104.09	37.24	-0.08	0.11	0.55	0.11	0.02
G073	102.98	37.15	-0.03	0.11	0.86	0.12	0.01
G074	102.01	37.32	0.15	0.11	0.94	0.12	0.00
G075	100.16	37.31	0.04	0.11	0.97	0.12	0.01
G076	100.48	37.22	0.13	0.10	1.05	0.11	-0.01
G077	104.63	36.91	-0.04	0.11	0.79	0.12	0.01
G078	104.13	36.85	-0.15	0.12	0.99	0.13	0.00
G079	103.16	36.89	0.05	0.11	0.95	0.11	0.01
G080	101.63	36.98	0.08	0.10	1.19	0.11	0.00
G081	102.56	36.89	0.04	0.10	0.99	0.11	0.00
G082	101.01	36.88	0.18	0.11	1.16	0.12	-0.00
G083	103.25	36.71	-0.06	0.10	0.91	0.11	0.00
G084	101.24	36.70	0.20	0.11	0.86	0.11	0.01

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G085	104.74	36.43	-0.25	0.11	1.05	0.12	-0.00
G086	104.36	36.66	-0.14	0.10	1.06	0.11	0.00
G087	102.38	36.50	-0.11	0.11	1.15	0.11	0.00
G089	101.54	36.49	0.10	0.11	0.93	0.11	0.01
G090	100.27	36.62	0.14	0.10	1.00	0.11	-0.00
G091	103.44	37.15	-0.07	0.11	0.77	0.12	0.01
G092	103.99	36.49	0.05	0.11	0.96	0.12	-0.01
G093	102.89	36.33	0.25	0.12	1.13	0.13	0.01
G094	100.96	36.40	0.25	0.11	1.00	0.12	-0.00
G095	103.42	36.15	-0.10	0.11	0.96	0.11	0.01
G096	101.99	36.21	0.06	0.11	1.01	0.12	0.01
G097	100.55	36.22	0.22	0.11	1.16	0.11	0.00
G098	102.26	36.12	0.33	0.11	0.87	0.11	0.01
G099	103.99	36.00	-0.25	0.11	0.75	0.12	0.00
G100	101.11	36.45	0.22	0.11	0.88	0.12	-0.00
G101	103.33	35.93	0.02	0.10	0.91	0.11	-
G102	102.03	35.92	0.17	0.11	1.04	0.12	0.01
G103	101.44	36.08	0.10	0.10	0.98	0.11	-0.00
G104	104.16	35.88	-0.03	0.11	0.89	0.12	0.01
G105	102.79	35.88	0.03	0.10	0.97	0.11	0.01
G106	102.54	35.84	0.14	0.11	0.87	0.11	0.01
G107	104.55	35.54	-0.07	0.10	0.69	0.11	-0.01
G108	103.21	35.57	0.04	0.11	0.81	0.12	0.01
G109	102.05	35.54	0.20	0.12	0.98	0.13	-0.00
G110	106.68	34.95	-0.34	0.11	0.66	0.11	0.01
G111	103.84	35.38	-0.17	0.10	0.76	0.11	0.00
G112	103.34	35.41	0.02	0.11	0.96	0.12	0.01
G113	102.81	35.26	0.18	0.11	0.97	0.13	0.01
G114	104.10	35.04	0.07	0.11	0.85	0.12	0.01
G115	102.44	35.12	0.05	0.10	1.07	0.10	0.00
G116	104.54	35.05	-0.26	0.11	0.78	0.12	0.00
G117	103.71	35.29	0.02	0.11	1.06	0.11	0.02
G118	102.89	34.95	0.14	0.11	1.09	0.12	0.01
G119	104.48	34.85	0.23	0.10	1.27	0.11	0.01
G120	104.94	34.71	-0.28	0.10	0.84	0.11	0.00
G121	104.91	34.47	-0.28	0.10	0.78	0.10	0.00
G122	97.05	41.85	0.14	0.10	0.37	0.10	-0.00
G123	95.46	41.07	0.41	0.11	0.39	0.12	0.01
G125	96.71	40.64	0.11	0.12	0.16	0.12	0.00

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G127	97.68	40.27	0.02	0.11	0.18	0.11	0.01
G128	97.08	40.29	0.17	0.12	0.31	0.13	-0.01
G129	97.44	40.03	0.24	0.12	0.36	0.12	0.01
G130	96.75	40.04	0.20	0.12	0.33	0.12	0.01
G131	95.71	40.08	0.25	0.12	0.23	0.14	0.01
G132	98.89	39.91	-0.19	0.11	0.35	0.12	0.00
G133	99.60	39.70	0.19	0.12	0.49	0.12	0.00
G134	102.32	38.70	-0.03	0.11	0.29	0.11	0.00
G135	98.50	39.71	-0.09	0.12	0.25	0.12	0.00
G136	98.19	39.84	0.12	0.11	0.30	0.12	-0.00
G137	97.92	39.85	0.03	0.11	0.33	0.11	-0.00
G138	97.70	39.57	0.29	0.12	0.39	0.12	0.00
G139	96.75	39.90	0.25	0.11	0.19	0.11	0.00
G141	101.14	38.93	0.04	0.12	0.33	0.12	-0.01
G142	98.80	39.41	-	0.12	0.42	0.12	0.00
G143	99.61	39.15	-	0.11	0.30	0.11	0.00
G144	98.00	39.19	0.16	0.11	0.49	0.12	0.00
G145	95.61	39.71	0.38	0.12	0.19	0.14	0.01
G146	99.62	38.83	-0.07	0.11	0.49	0.12	0.01
G147	98.27	38.97	0.28	0.11	0.57	0.12	0.00
G148	99.56	38.44	0.05	0.11	0.61	0.12	-0.01
G149	98.85	37.98	0.17	0.11	0.59	0.11	0.00
G150	98.66	37.58	0.31	0.11	0.94	0.12	0.00
G151	95.80	37.51	0.51	0.12	0.79	0.14	0.01
G152	99.49	37.13	0.21	0.11	0.94	0.11	0.01
G153	99.01	37.30	0.23	0.11	0.88	0.12	-0.00
G154	98.34	37.31	0.47	0.11	0.73	0.12	0.00
G156	96.70	37.36	0.76	0.12	0.68	0.16	0.00
G157	99.90	36.69	0.27	0.11	0.99	0.12	-0.00
G158	99.07	36.80	0.33	0.10	0.90	0.11	-0.01
G159	98.46	36.94	0.47	0.10	0.93	0.11	-0.01
G160	95.00	40.55	0.25	0.11	0.26	0.12	0.01
G161	94.81	40.17	0.42	0.11	0.35	0.12	0.01
G162	94.55	39.72	0.51	0.12	0.39	0.14	0.01
G163	93.49	39.64	0.30	0.11	0.25	0.12	0.01
G164	94.86	39.51	0.32	0.12	0.49	0.14	0.01
G165	93.00	39.29	0.40	0.11	0.38	0.12	0.00
G167	94.36	38.81	0.58	0.12	0.59	0.14	0.01
G169	95.00	38.06	0.54	0.12	0.67	0.14	0.01

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G170	93.50	37.90	0.61	0.12	0.89	0.15	0.02
G171	90.80	38.29	0.72	0.11	0.87	0.12	-0.00
G172	89.20	38.72	0.46	0.12	0.16	0.12	0.01
H001	106.51	33.91	-0.28	0.10	0.76	0.12	0.01
H002	105.81	33.89	-0.51	0.10	0.80	0.11	0.02
H003	105.31	34.11	-0.29	0.10	0.73	0.11	0.01
H004	106.92	33.62	-0.48	0.11	0.72	0.12	0.01
H005	105.59	33.70	-0.44	0.10	0.79	0.11	0.02
H006	105.29	33.78	-0.39	0.10	0.59	0.11	0.01
H007	106.15	33.34	-0.43	0.10	0.94	0.12	0.01
H008	105.63	33.40	-0.66	0.11	1.14	0.13	0.01
H009	106.02	32.96	-0.61	0.10	0.86	0.11	0.01
H010	105.23	32.57	-0.41	0.11	0.59	0.12	0.01
H011	105.83	32.45	-0.43	0.11	0.62	0.13	0.00
H012	105.46	32.02	-0.36	0.11	0.70	0.13	0.01
H013	103.25	34.75	-0.13	0.10	1.02	0.10	0.00
H014	104.07	34.40	-0.32	0.10	1.02	0.11	0.02
H015	102.50	34.59	0.04	0.11	0.93	0.12	0.00
H016	104.38	34.05	-0.06	0.10	0.90	0.11	0.02
H017	103.15	34.11	-0.13	0.11	1.02	0.12	0.01
H018	102.13	34.00	0.03	0.11	1.20	0.12	0.01
H019	104.40	33.79	-0.33	0.10	0.74	0.11	0.02
H020	103.73	33.94	-0.09	0.10	0.89	0.10	0.00
H021	104.82	33.42	-0.39	0.10	0.77	0.10	0.01
H022	104.62	33.00	-0.25	0.10	0.70	0.11	0.01
H024	104.23	33.23	-0.46	0.10	1.31	0.11	0.00
H025	103.43	32.93	-0.09	0.10	1.04	0.11	0.01
H026	102.99	33.57	0.02	0.11	1.20	0.12	0.01
H027	101.48	33.43	0.01	0.11	1.34	0.12	0.01
H028	101.71	32.90	-0.20	0.11	1.21	0.12	0.01
H029	100.59	33.09	0.13	0.11	1.22	0.12	0.01
H030	103.61	32.59	-0.42	0.10	0.72	0.11	0.01
H031	102.50	32.79	-0.17	0.10	1.17	0.10	0.00
H032	104.57	32.41	-0.12	0.10	0.94	0.11	0.01
H033	104.83	32.18	-0.53	0.10	0.74	0.11	0.00
H034	103.73	32.36	-0.48	0.10	0.69	0.11	0.00
H035	104.44	31.80	-0.46	0.10	0.88	0.11	0.01
H037	103.17	32.08	-0.37	0.10	0.89	0.12	0.01
H039	100.73	31.86	-0.31	0.11	1.05	0.12	0.01

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H040	101.61	31.77	-0.55	0.11	1.02	0.13	0.00
H041	101.07	32.32	-0.27	0.11	1.31	0.12	-0.00
H042	100.33	32.27	-0.01	0.11	1.41	0.12	0.01
H043	104.78	31.49	-0.33	0.10	0.83	0.12	0.00
H044	104.19	31.35	-0.33	0.11	0.55	0.13	-0.01
H045	103.61	31.47	-0.47	0.11	0.72	0.13	0.01
H046	102.67	31.85	-0.26	0.11	0.83	0.13	0.01
H047	102.10	31.47	-0.46	0.10	0.90	0.11	0.00
H048	104.44	31.16	-0.46	0.11	1.11	0.14	0.00
H049	103.69	31.06	-0.68	0.11	0.58	0.15	-0.01
H050	103.15	31.01	-0.42	0.11	0.79	0.15	-0.01
H051	102.77	30.99	-0.34	0.11	0.75	0.15	-0.00
H052	101.87	30.95	-0.40	0.11	1.06	0.13	0.00
H053	101.16	30.96	-0.72	0.10	1.39	0.11	0.00
H054	100.75	31.30	-1.00	0.11	1.54	0.12	0.01
H056	100.30	31.65	-0.67	0.11	1.74	0.13	-0.00
H057	100.24	31.32	-0.82	0.11	1.86	0.12	0.01
H058	104.08	30.73	-0.19	0.11	0.56	0.14	-0.00
H059	103.87	30.69	-0.39	0.11	0.53	0.14	0.00
H060	103.41	30.42	-0.19	0.11	0.62	0.13	0.00
H061	102.84	30.25	-0.62	0.11	0.81	0.14	-0.00
H062	100.93	31.14	-0.86	0.12	2.03	0.13	0.01
H063	100.31	30.92	-1.17	0.11	1.56	0.12	0.00
H064	103.85	30.04	-0.32	0.12	0.64	0.16	0.00
H065	103.00	29.98	-0.57	0.12	1.00	0.15	0.00
H066	101.79	30.07	-1.39	0.11	1.17	0.15	-0.01
H067	101.49	30.08	-1.42	0.12	1.46	0.14	-0.00
H068	101.02	30.11	-1.20	0.12	0.66	0.15	-0.00
H069	99.17	30.09	-0.85	0.11	1.67	0.13	-
H070	104.07	29.65	-0.32	0.11	0.84	0.13	0.00
H071	104.54	30.37	-0.29	0.10	0.29	0.12	-0.00
H072	102.82	29.79	-0.75	0.11	0.83	0.13	-0.00
H073	102.29	29.85	-0.55	0.11	0.82	0.14	0.00
H074	101.56	29.85	-1.30	0.12	0.69	0.15	0.00
H075	100.39	29.70	-1.39	0.10	1.41	0.11	0.00
H076	103.47	29.60	-0.56	0.11	0.57	0.14	0.00
H077	102.66	29.35	-0.42	0.12	0.93	0.16	0.00
H078	102.08	29.69	-1.02	0.12	0.77	0.17	-0.01
H079	101.52	30.33	-1.59	0.12	1.28	0.16	-0.02

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H080	100.12	29.18	-1.32	0.12	1.21	0.16	0.01
H081	103.26	29.23	-0.60	0.12	0.52	0.17	0.00
H082	102.44	29.26	-0.81	0.12	0.53	0.16	-0.01
H083	101.52	28.96	-1.46	0.10	1.17	0.11	-0.00
H084	103.89	28.96	-0.44	0.12	0.99	0.17	-0.00
H086	103.04	28.85	-0.51	0.13	0.01	0.16	0.00
H087	102.77	28.96	-0.61	0.13	1.20	0.15	-0.00
H088	103.98	28.61	-0.44	0.12	0.97	0.17	0.01
H089	103.12	28.31	-0.60	0.11	0.43	0.14	-0.00
H090	102.53	28.67	-0.98	0.12	1.12	0.14	0.00
H091	102.44	28.30	-1.06	0.13	0.90	0.17	-0.00
H092	102.13	28.51	-1.58	0.13	0.73	0.17	-0.01
H093	103.64	28.25	-0.27	0.12	0.64	0.17	0.01
H095	102.23	27.87	-0.59	0.13	0.60	0.19	-0.04
H096	101.24	27.66	-1.29	0.12	1.10	0.14	0.00
H097	100.65	27.75	-1.47	0.11	0.72	0.14	-0.00
H098	103.89	27.77	-0.57	0.11	0.54	0.14	0.00
H099	103.27	27.68	-0.41	0.12	0.25	0.16	-0.01
H100	102.79	27.69	-0.66	0.12	0.78	0.19	-0.01
H101	103.69	27.36	-0.69	0.12	0.95	0.19	-0.00
H102	102.55	27.37	-1.33	0.14	0.68	0.23	-0.01
H103	102.19	27.45	-1.11	0.12	0.57	0.15	0.00
H104	101.71	27.54	-1.08	0.12	0.84	0.16	-0.00
H106	100.93	27.14	-1.23	0.12	0.68	0.16	0.01
H107	100.06	27.11	-1.64	0.10	0.45	0.12	0.00
H108	102.91	26.93	-1.04	0.12	0.48	0.16	0.01
H109	102.61	26.62	-1.37	0.11	0.87	0.15	0.00
H110	102.26	26.69	-1.23	0.12	0.67	0.16	0.00
H111	102.10	26.83	-1.31	0.13	1.16	0.19	0.01
H112	101.96	27.05	-1.37	0.11	0.89	0.15	-0.00
H113	101.85	26.69	-1.47	0.12	0.76	0.16	0.00
H114	101.24	26.68	-1.36	0.12	0.78	0.15	0.00
H116	101.75	26.50	-1.49	0.10	0.63	0.12	-0.01
H117	100.76	26.67	-1.31	0.10	0.47	0.11	0.00
H118	100.16	26.51	-1.45	0.11	-0.03	0.13	0.01
H119	103.23	26.41	-0.79	0.11	0.79	0.13	-0.00
H120	103.17	26.11	-0.96	0.11	0.84	0.13	-0.01
H121	102.53	26.00	-1.31	0.11	0.99	0.13	-0.01
H122	101.68	26.05	-1.53	0.11	0.94	0.12	-0.01

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H123	100.60	26.21	-1.27	0.11	0.44	0.14	-0.01
H124	100.09	25.98	-1.17	0.11	0.66	0.13	-0.00
H125	103.77	25.50	-0.56	0.11	0.72	0.14	-0.01
H126	103.24	25.61	-0.76	0.11	0.63	0.13	-0.01
H127	102.94	25.80	-1.18	0.11	0.80	0.13	-0.00
H128	102.51	25.58	-1.48	0.11	0.71	0.14	-0.01
H129	101.90	25.64	-1.23	0.11	0.72	0.14	0.00
H130	101.32	25.73	-1.13	0.11	0.79	0.14	-0.00
H131	100.56	25.80	-1.19	0.10	0.42	0.11	-0.00
H132	103.66	25.02	-0.80	0.11	0.72	0.14	-0.01
H134	102.52	25.24	-1.28	0.11	0.60	0.14	-0.01
H135	102.07	25.16	-1.35	0.11	0.75	0.14	-0.01
H136	101.57	24.99	-1.35	0.10	0.50	0.11	-0.00
H138	100.55	25.48	-1.23	0.11	0.33	0.12	-0.00
H140	100.50	25.34	-1.58	0.11	-0.20	0.14	0.00
H141	100.52	25.04	-1.17	0.11	0.02	0.14	-0.00
H143	103.26	24.77	-0.40	0.11	0.82	0.15	-0.01
H144	102.92	24.68	-1.11	0.11	0.52	0.12	0.00
H145	102.15	24.68	-1.13	0.11	0.51	0.13	0.00
H146	101.63	24.69	-1.09	0.13	0.69	0.18	-0.03
H147	100.31	24.84	-1.43	0.11	0.20	0.13	0.00
H148	100.14	24.45	-1.16	0.11	0.06	0.13	-0.00
H149	102.58	24.38	-1.37	0.12	-0.19	0.15	-
H150	102.44	24.19	-1.13	0.11	0.34	0.13	-0.00
H151	101.98	24.07	-1.22	0.10	0.10	0.11	-0.00
H152	101.09	24.02	-0.97	0.12	0.40	0.14	-0.00
H153	100.88	24.42	-1.01	0.11	0.07	0.13	-0.01
H154	103.42	24.11	-1.03	0.11	0.98	0.13	0.00
H155	102.75	24.12	-0.85	0.11	0.73	0.13	-0.00
H156	102.50	23.72	-0.58	0.10	0.33	0.12	0.00
H157	101.99	23.60	-0.86	0.12	0.49	0.17	0.01
H158	101.68	23.43	-1.32	0.13	0.41	0.23	-0.01
H159	101.39	23.29	-1.12	0.13	0.22	0.24	-0.00
H160	100.90	23.87	-0.60	0.11	0.37	0.13	-0.00
H162	100.09	23.88	-0.83	0.10	-0.17	0.12	0.00
H163	100.11	23.60	-0.74	0.12	-0.08	0.19	-0.04
H164	103.40	23.47	-0.41	0.12	1.04	0.17	0.00
H165	103.28	23.71	-0.80	0.10	0.85	0.13	0.01
H166	102.84	23.22	-0.61	0.13	0.77	0.24	-0.03

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H167	102.40	23.00	-0.65	0.11	0.71	0.15	0.00
H168	101.06	23.07	-1.15	0.11	0.24	0.17	-0.03
H170	103.69	22.98	-0.71	0.12	0.70	0.16	0.01
H171	103.16	23.14	-0.24	0.12	0.58	0.18	0.01
H172	103.93	22.53	-0.45	0.12	0.67	0.18	0.00
H173	103.22	22.77	-0.55	0.11	0.84	0.16	-
H174	101.86	22.59	-0.93	0.11	0.27	0.16	0.01
H175	101.06	22.51	-1.03	0.10	0.25	0.14	-0.00
H176	101.35	21.89	-0.70	0.12	0.52	0.18	0.02
H177	100.79	22.01	-0.87	0.11	0.44	0.14	-0.00
H178	100.11	22.22	-0.70	0.10	-0.06	0.13	-0.00
H179	100.45	21.95	-0.77	0.11	0.18	0.15	0.01
H181	100.67	21.59	-0.39	0.11	0.44	0.14	0.00
H182	100.01	31.62	-0.60	0.11	1.68	0.13	-0.01
H184	99.67	30.29	-0.84	0.11	1.65	0.12	0.00
H186	98.60	29.67	-0.93	0.11	1.64	0.13	0.00
H187	98.69	29.24	-1.08	0.10	1.32	0.12	0.00
H188	99.25	28.84	-1.19	0.11	0.96	0.15	0.01
H189	99.74	29.00	-1.50	0.11	0.94	0.15	0.01
H190	99.76	28.32	-1.58	0.11	0.90	0.15	0.01
H191	98.91	28.44	-1.23	0.11	0.85	0.14	0.02
H192	99.71	27.83	-1.53	0.12	0.64	0.17	0.00
H193	99.03	27.61	-1.23	0.11	0.75	0.14	0.01
H194	98.67	27.76	-1.11	0.11	0.61	0.14	0.00
H195	99.64	27.31	-1.41	0.11	0.61	0.14	0.01
H196	99.29	27.18	-1.17	0.12	0.23	0.17	0.01
H197	98.88	26.91	-1.23	0.11	-0.24	0.16	-0.01
H198	99.93	26.45	-1.40	0.10	0.17	0.11	-0.00
H199	99.41	26.44	-1.55	0.15	-0.16	0.25	-0.02
H200	98.92	26.55	-1.04	0.11	0.08	0.15	0.01
H201	99.99	26.14	-1.12	0.11	-0.05	0.13	0.00
H203	98.81	25.99	-0.90	0.12	-0.12	0.18	0.01
H204	99.92	25.72	-1.35	0.11	-0.13	0.13	0.01
H205	99.53	25.46	-1.49	0.12	-0.19	0.16	-0.00
H206	99.11	25.65	-1.21	0.10	-0.21	0.11	0.00
H207	99.15	25.07	-1.15	0.11	0.06	0.13	-0.01
H209	99.91	24.63	-1.04	0.12	0.25	0.14	-0.00
H210	99.64	24.84	-1.18	0.11	0.13	0.12	-0.01
H211	98.68	24.58	-0.67	0.12	0.15	0.16	-0.02

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H212	98.30	24.81	-0.89	0.11	-0.60	0.13	0.00
H213	97.94	24.71	-0.65	0.11	-0.64	0.15	-0.02
H214	99.62	24.24	-1.02	0.10	-0.12	0.13	-0.02
H215	99.25	24.00	-0.78	0.12	-0.59	0.15	-0.01
H216	98.84	23.80	-0.69	0.11	-0.44	0.16	-0.03
H217	98.29	24.26	-0.41	0.12	-0.17	0.17	-0.03
H218	97.86	24.01	-0.18	0.12	-0.56	0.17	-0.02
H219	99.83	23.47	-0.71	0.11	0.02	0.16	-0.03
H220	99.40	23.54	-0.69	0.13	0.05	0.21	-0.06
H221	99.17	23.62	-0.41	0.11	-0.40	0.16	-0.02
H222	99.83	23.04	-1.01	0.14	0.66	0.29	-0.02
H223	99.26	23.14	-0.62	0.10	-0.19	0.13	-0.01
H224	99.81	22.71	-0.56	0.11	-0.09	0.14	-0.01
H225	99.45	22.74	-0.63	0.11	0.13	0.14	-0.01
H227	99.59	22.31	-0.60	0.11	0.12	0.16	-0.01
I032	87.19	40.83	0.81	0.11	0.38	0.12	0.00
I033	88.25	40.27	0.46	0.11	0.16	0.12	-0.00
I034	88.18	39.02	0.46	0.10	-0.02	0.11	-0.01
I035	86.98	38.51	0.48	0.12	-0.01	0.13	-0.00
I063	84.34	40.22	0.99	0.10	0.02	0.11	-0.00
I064	83.61	39.02	1.00	0.11	0.18	0.13	-0.00
I065	83.16	38.26	0.67	0.12	0.48	0.16	-0.01
I066	83.81	37.59	0.98	0.11	0.10	0.15	-0.02
I067	82.70	37.05	1.20	0.12	0.26	0.17	-0.01
I068	81.66	36.84	1.15	0.11	-0.11	0.13	-0.02
I069	82.99	36.74	1.34	0.11	0.01	0.14	-0.01
I070	81.48	36.46	1.35	0.11	-0.14	0.13	-0.01
I075	78.04	39.71	1.64	0.11	0.13	0.12	0.00
I076	78.54	39.78	1.33	0.12	0.14	0.16	-0.03
I077	76.51	39.81	1.55	0.12	0.47	0.13	-0.01
I078	75.25	39.72	1.17	0.12	0.08	0.14	-0.00
I079	76.73	39.50	1.71	0.12	0.41	0.13	-0.00
I081	75.90	39.20	1.93	0.12	0.29	0.13	-0.00
I082	77.62	38.90	1.84	0.12	0.23	0.13	-0.00
I083	76.17	38.94	1.89	0.12	0.17	0.17	-0.01
I084	77.28	38.17	1.66	0.11	-0.01	0.14	-0.01
I086	78.25	37.56	1.84	0.11	0.17	0.14	-0.01
I087	79.96	37.10	1.46	0.11	-0.11	0.12	-0.01
I088	75.45	36.85	2.08	0.12	-0.26	0.14	0.01

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I089	74.34	39.84	1.08	0.12	0.17	0.16	-0.01
I090	74.95	38.66	2.08	0.12	-0.23	0.14	0.00
J005	98.21	34.89	0.43	0.11	1.51	0.12	0.00
J010	97.17	31.16	-0.26	0.11	1.63	0.13	-
J019	94.10	31.92	0.58	0.11	2.15	0.14	0.01
J043	84.13	32.30	1.85	0.11	0.60	0.15	-0.01
JB08	108.09	35.06	-0.51	0.10	0.59	0.11	0.00
JB09	105.67	38.81	-0.10	0.10	0.42	0.10	-0.00
JB23	106.68	33.12	-0.42	0.10	0.69	0.11	0.00
JB24	106.03	30.80	-0.39	0.10	0.72	0.13	0.01
JB27	105.38	35.14	-0.26	0.10	0.70	0.10	-0.00
JB28	95.80	40.51	0.26	0.10	0.27	0.10	-0.00
JB29	99.81	39.41	0.03	0.10	0.30	0.10	0.00
JB30	94.87	36.43	0.72	0.10	1.10	0.10	-0.00
JB31	93.41	38.81	0.45	0.10	0.75	0.10	-0.00
JB32	90.98	38.59	0.59	0.10	0.71	0.11	-0.00
JB33	103.89	33.28	-0.01	0.10	1.10	0.10	0.00
JB34	102.31	31.71	-0.28	0.10	0.91	0.11	0.01
JB35	101.50	30.49	-1.18	0.10	1.30	0.12	0.00
JB36	103.53	28.84	-0.59	0.10	0.80	0.12	0.00
JB37	101.51	27.42	-1.22	0.10	0.84	0.11	0.00
JB38	100.17	26.88	-1.51	0.10	0.42	0.11	-0.00
JB39	101.05	22.74	-0.85	0.10	0.30	0.13	0.00
JB40	100.28	29.99	-1.15	0.10	1.45	0.11	-0.00
JB41	98.50	25.02	-0.85	0.10	-0.24	0.13	0.01
JB42	99.92	22.55	-0.54	0.11	0.05	0.14	-0.00
JB46	85.54	38.08	0.72	0.10	0.05	0.10	-0.00
JB48	75.92	39.52	1.41	0.10	0.38	0.10	0.00
JB49	96.99	33.00	0.18	0.10	1.93	0.11	-0.00
JB50	96.87	29.39	-0.70	0.10	1.34	0.11	0.00
JB51	93.05	35.09	0.71	0.10	1.58	0.10	-0.01
JB52	91.98	32.99	0.99	0.10	1.78	0.11	-0.00
JB53	87.77	31.89	1.77	0.10	1.31	0.11	-0.00
JB54	86.97	28.39	2.25	0.10	0.91	0.13	-0.01
JB55	79.58	35.46	1.38	0.10	-0.14	0.11	0.00
JB56	79.80	32.43	1.63	0.10	0.06	0.12	0.00
JC02	102.74	24.27	-0.85	0.24	0.76	0.34	-0.03
KMIN	102.80	25.03	-1.27	0.09	0.55	0.10	-0.00
KUNM	102.80	25.03	-1.44	0.09	0.31	0.10	-0.00

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LUZH	105.41	28.87	-0.39	0.09	0.74	0.09	-0.00
TASH	75.23	37.77	2.17	0.09	-0.21	0.10	-0.00
XIAG	100.25	25.61	-1.34	0.09	0.03	0.10	-0.00
XNIN	101.77	36.60	0.15	0.09	1.17	0.09	-0.00
YANC	107.44	37.78	-0.33	0.09	0.44	0.09	-0.00
MAHE	80.15	28.96	3.48	0.15	0.50	0.25	0.05
KHAN	87.21	27.38	3.18	0.20	1.07	0.45	0.08
LUKL	86.73	27.69	2.75	0.24	1.05	0.53	0.21
RONG	86.83	28.19	2.69	0.10	0.90	0.15	0.05
DAGZ	91.36	29.66	1.74	0.08	1.77	0.09	0.01
BALA	90.80	29.74	1.92	0.07	1.70	0.10	0.02
XIGA	88.86	29.25	2.43	0.08	1.26	0.11	0.03
TING	87.16	28.63	2.53	0.10	0.68	0.16	0.06
BUDO	93.91	35.52	0.60	0.27	1.54	0.37	0.07
ERDA	92.85	34.63	0.73	0.21	1.86	0.27	0.03
YANS	92.06	33.65	1.00	0.10	1.98	0.12	0.02
TANG	91.86	33.23	1.21	0.09	2.14	0.11	0.01
NAGQ	92.04	31.47	1.37	0.11	2.09	0.13	0.01
JIAN	89.57	28.91	2.31	0.12	1.36	0.14	0.01
SAGA	85.21	29.44	2.45	0.10	0.51	0.13	-0.03
YADO	88.91	27.49	2.75	0.22	1.20	0.28	-0.03
NYLM	86.02	28.29	2.51	0.12	1.06	0.16	-0.04
LAZE	87.58	29.12	2.52	0.10	1.38	0.14	0.01
GNGB	93.24	29.88	0.70	0.33	2.75	0.39	0.01
TCOQ	85.14	31.02	2.05	0.34	0.59	0.39	0.02
GUCO	86.34	28.78	2.35	0.34	1.43	0.40	0.02
SHOT	85.74	29.59	2.16	0.34	1.24	0.40	0.02
TUOT	92.45	34.21	0.59	0.14	2.11	0.19	0.07
ANDU	91.69	32.28	1.19	0.09	1.95	0.12	0.04
SHIQ	80.10	32.51	1.72	0.13	0.19	0.17	-0.02
AIRP	85.28	27.69	3.30	0.19	0.97	0.31	0.03
NAMC	86.72	27.80	2.58	0.12	1.32	0.18	0.03
BHAI	83.42	27.51	3.50	0.17	1.74	0.25	0.03
BHAR	84.43	27.68	3.52	0.17	1.04	0.27	0.05
JANK	85.92	26.71	3.62	0.23	1.15	0.46	0.07
BIRA	87.26	26.48	3.74	0.17	1.27	0.29	0.06
JIRI	86.23	27.64	2.97	0.20	0.74	0.34	0.11
NAGA	85.52	27.69	3.36	0.06	0.90	0.08	0.00
NEPA	81.57	28.13	3.57	0.10	0.94	0.14	0.02

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POKH	83.98	28.20	3.23	0.16	0.85	0.23	0.04
RANJ	82.57	28.06	3.26	0.18	0.87	0.28	0.04
JOMO	83.72	28.78	2.60	0.14	0.91	0.19	0.02
SIMA	84.98	27.16	3.73	0.14	1.08	0.24	0.04
SURK	81.64	28.59	3.18	0.16	0.60	0.22	0.02
TANS	83.55	27.87	3.18	0.18	0.90	0.27	0.04
SIMI	81.83	29.97	2.21	0.13	0.56	0.19	0.03
LHAS	91.10	29.66	1.88	0.07	1.81	0.07	0.00
SUKI	78.68	31.00	2.33	0.15	0.05	0.24	-0.06
AULI	79.56	30.53	2.87	0.24	0.32	0.42	-0.06
TUNG	79.21	30.49	2.70	0.22	-0.35	0.33	-0.04
CHAM	78.37	30.40	2.85	0.15	0.60	0.24	-0.09
BURF	80.19	30.36	2.25	0.77	-0.33	1.76	-0.19
MUNS	80.20	30.06	3.71	0.16	0.33	0.25	-0.06
LANS	78.68	29.85	3.12	0.21	0.79	0.29	-0.04
CHAU	80.04	29.84	2.75	0.16	0.70	0.27	-0.09
KTML	79.62	29.64	3.18	0.30	1.02	0.41	-0.03
JNUC	77.17	28.54	3.13	0.15	0.95	0.25	-0.04
DELO	88.50	27.09	3.33	0.42	1.04	0.85	-0.31
BHOP	77.36	23.28	2.51	0.35	0.97	0.48	-0.05
SHIL	91.85	25.53	3.34	0.38	1.53	0.76	-0.08
JB25	106.67	26.42	-0.38	0.10	0.74	0.13	0.01
UDAI	76.69	32.70	2.64	0.11	0.32	0.14	0.01
JIPA	77.18	32.63	2.07	0.10	-0.13	0.13	-0.01
DALH	75.99	32.54	3.15	0.09	0.43	0.15	-0.00
MANU	75.67	32.49	3.25	0.10	1.15	0.15	-0.00
KOTH	77.19	32.32	1.95	0.08	0.41	0.12	0.00
NADI	76.31	32.25	3.17	0.04	0.65	0.05	-0.01
REWL	76.82	31.63	2.88	0.09	0.25	0.14	-0.00
UNA0	76.31	31.54	3.15	0.08	0.49	0.12	-0.00
BOHA	75.94	31.48	3.15	0.08	0.62	0.13	-0.00
HARS	78.75	31.04	2.47	0.15	0.21	0.19	-0.00
BHAT	78.62	30.81	2.33	0.13	0.36	0.17	-0.00
BADR	79.49	30.74	2.55	0.14	0.33	0.18	-0.00
HATI	78.02	30.46	2.78	0.06	0.71	0.09	0.00
BATA	78.12	30.45	2.78	0.12	0.92	0.14	0.01
CHMB	78.37	30.39	3.27	0.10	0.09	0.14	-0.00
DHOU	78.16	30.34	3.07	0.09	0.91	0.11	0.00
POKH	79.19	30.33	2.99	0.10	0.50	0.14	-0.01

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WIH2	78.01	30.33	3.19	0.03	0.85	0.05	-0.01
WIHG	78.01	30.33	3.05	0.08	0.77	0.10	-
SABA	77.86	30.33	3.18	0.06	0.69	0.09	0.01
WILD	77.97	30.29	3.29	0.07	0.63	0.09	0.00
QASI	77.63	30.28	3.02	0.11	0.83	0.14	0.00
DOIW	78.19	30.19	3.36	0.07	0.59	0.09	0.00
MOND	77.87	30.15	3.54	0.12	0.83	0.15	-0.00
RAJA	77.98	30.10	3.43	0.09	0.78	0.13	-
LANS	78.68	29.85	3.28	0.09	0.71	0.15	0.00
JNUC	77.17	28.54	3.11	0.07	0.92	0.14	-0.00
NAGA	85.52	27.69	3.22	0.04	1.20	0.06	-0.01

G20554A_Zhang_Table DR_3

Table DR-3. GPS station velocities used to calculate east southeastward stretching in the interior Plateau

Site	Long.	Lat.	EW_rate (cm)	NS_rate (cm)	EW_error (cm)	NS_error (cm)
H184	99.67	30.29	1.65	-0.84	1.20	1.10
J005	98.21	34.89	1.51	0.43	1.20	1.10
J010	97.17	31.16	1.63	-0.26	1.30	1.10
J019	94.10	31.92	2.15	0.58	1.40	1.10
J043	84.13	32.30	0.60	1.85	1.50	1.10
JB49	96.99	33.00	1.93	0.18	1.10	1.00
JB52	91.98	32.99	1.78	0.99	1.10	1.00
JB53	87.77	31.89	1.31	1.77	1.10	1.00
JB56	79.80	32.43	0.06	1.63	1.20	1.00
ERDA	92.85	34.63	1.86	0.73	2.67	2.07
YANS	92.06	33.65	1.98	1.00	1.20	0.96
TANG	91.86	33.23	2.14	1.21	1.06	0.92
NAGQ	92.04	31.47	2.09	1.37	1.33	1.14
TCOQ	85.14	31.02	0.59	2.05	3.91	3.37
TUOT	92.45	34.21	2.11	0.59	1.90	1.35
ANDU	91.69	32.28	1.95	1.19	1.18	0.93
SHIQ	80.10	32.51	0.19	1.72	1.69	1.31

G20554A_Zhang_Table DR_3

or of Tibetan

Covariace
0.0039
0.0020
0.0000
0.0059
-0.0053
-0.0012
-0.0013
-0.0005
0.0012
0.0349
0.0180
0.0122
0.0126
0.0218
0.0708
0.0409
-0.0228