

Supplementary Table S1. Measurements of crustal thickness(H), Vp/Vs ratio(κ) and Poisson's ratio(δ) in the study area.

Station	Latitude	Longitude	$H(\text{km})$	κ	δ	harmonic corrections
ah201	31.84	117.18	33.1 $\pm$ 2.3	1.77 $\pm$ 0.04	0.27	yes
ah202	31.68	117.52	31.6 $\pm$ 1.9	1.78 $\pm$ 0.05	0.27	yes
ah203	31.47	118.23	28.6 $\pm$ 3.0	1.77 $\pm$ 0.07	0.27	yes
ah205	31.10	119.17	31.4 $\pm$ 2.7	1.75 $\pm$ 0.08	0.26	yes
ah206	31.58	116.45	35.1 $\pm$ 2.6	1.74 $\pm$ 0.04	0.25	yes
ah207	31.35	116.98	33.9 $\pm$ 2.0	1.76 $\pm$ 0.05	0.26	yes
ah208	31.21	117.83	34.0 $\pm$ 2.3	1.72 $\pm$ 0.04	0.24	yes
ah209	31.08	118.17	32.0 $\pm$ 2.4	1.77 $\pm$ 0.05	0.27	yes
ah210	30.97	118.94	30.5 $\pm$ 2.3	1.76 $\pm$ 0.08	0.26	yes
ah212	30.87	117.39	31.5 $\pm$ 3.3	1.73 $\pm$ 0.05	0.25	no
ah214	30.69	118.98	32.0 $\pm$ 3.3	1.75 $\pm$ 0.11	0.26	yes
ah215	30.80	119.28	32.5 $\pm$ 3.3	1.76 $\pm$ 0.09	0.26	yes
ah216	30.46	116.24	36.6 $\pm$ 2.2	1.66 $\pm$ 0.05	0.22	no
ah217	31.05	116.94	34.1 $\pm$ 2.4	1.72 $\pm$ 0.05	0.24	yes
ah219	30.34	118.55	30.5 $\pm$ 2.4	1.76 $\pm$ 0.06	0.26	yes
ah220	30.30	118.72	30.9 $\pm$ 2.5	1.69 $\pm$ 0.08	0.23	no
HJ07	26.80	113.51	32.1 $\pm$ 2.0	1.63 $\pm$ 0.06	0.20	yes
HJ12	27.50	113.44	30.9 $\pm$ 1.7	1.69 $\pm$ 0.06	0.23	yes
HJ14	28.06	113.39	30.0 $\pm$ 2.0	1.75 $\pm$ 0.07	0.26	no
HJ15	28.16	113.91	30.8 $\pm$ 2.5	1.70 $\pm$ 0.09	0.24	yes
HJ17	28.06	114.97	30.5 $\pm$ 3.3	1.63 $\pm$ 0.09	0.20	yes
HJ18	27.87	115.04	32.0 $\pm$ 3.3	1.63 $\pm$ 0.09	0.20	no
HJ21	27.53	113.94	31.0 $\pm$ 2.4	1.67 $\pm$ 0.05	0.22	yes
HJ23	27.30	114.87	29.0 $\pm$ 1.0	1.68 $\pm$ 0.07	0.23	yes
HJ25	27.01	113.97	31.0 $\pm$ 1.7	1.73 $\pm$ 0.08	0.25	yes
HJ28	26.76	115.45	31.0 $\pm$ 1.9	1.70 $\pm$ 0.05	0.24	yes
C001	29.17	115.38	32.4 $\pm$ 3.3	1.66 $\pm$ 0.05	0.22	no
C002	28.72	115.38	31.0 $\pm$ 2.2	1.69 $\pm$ 0.07	0.23	yes
C003	28.28	115.42	30.5 $\pm$ 1.8	1.69 $\pm$ 0.06	0.23	yes
C004	26.86	115.87	30.0 $\pm$ 2.1	1.76 $\pm$ 0.07	0.26	yes
C005	26.57	116.14	31.9 $\pm$ 2.6	1.66 $\pm$ 0.04	0.22	yes
C006	28.29	115.95	30.0 $\pm$ 1.8	1.75 $\pm$ 0.10	0.26	yes
C007	27.82	116.05	30.0 $\pm$ 2.0	1.75 $\pm$ 0.08	0.26	yes
C008	27.43	116.15	31.5 $\pm$ 1.7	1.74 $\pm$ 0.07	0.25	yes
C009	27.07	116.48	32.5 $\pm$ 2.4	1.71 $\pm$ 0.06	0.24	yes
C010	30.26	115.52	31.4 $\pm$ 1.8	1.78 $\pm$ 0.06	0.27	yes
C011	29.67	115.72	33.0 $\pm$ 1.7	1.72 $\pm$ 0.08	0.24	yes
C012	27.66	115.57	30.5 $\pm$ 1.5	1.75 $\pm$ 0.08	0.26	yes
C013	29.17	115.81	32.1 $\pm$ 3.3	1.63 $\pm$ 0.06	0.20	no

C014	28.76	116.17	29.5±1.7	1.69±0.05	0.23	yes
C015	28.24	116.65	32.0±1.8	1.70±0.08	0.24	yes
C016	27.89	116.72	30.6±1.6	1.75±0.08	0.26	yes
C017	27.47	116.90	32.0±2.0	1.74±0.10	0.25	yes
C018	28.42	117.15	31.6±1.5	1.74±0.05	0.25	yes
C019	30.28	116.09	36.6±1.9	1.73±0.08	0.25	yes
C021	29.66	116.64	33.9±1.7	1.72±0.05	0.24	yes
C022	27.92	117.22	30.6±2.2	1.77±0.10	0.27	yes
C024	29.26	117.41	32.0±2.0	1.74±0.07	0.25	yes
C025	29.35	117.33	32.0±2.2	1.63±0.05	0.20	yes
C026	29.47	117.24	32.6±1.7	1.69±0.05	0.23	yes
C027	29.59	117.16	34.9±1.7	1.67±0.05	0.22	no
C028	29.67	117.06	34.9±1.4	1.70±0.05	0.24	yes
C029	29.81	116.93	34.9±1.8	1.69±0.06	0.23	yes
C030	29.94	116.90	35.1±3.0	1.68±0.09	0.23	yes
C031	30.01	116.81	32.5±2.4	1.73±0.06	0.25	yes
C032	30.16	116.74	30.7±2.9	1.73±0.08	0.25	yes
C033	30.38	116.57	32.5±1.0	1.69±0.06	0.23	yes
C034	30.62	116.39	34.4±2.7	1.69±0.07	0.23	yes
C035	30.14	117.34	35.5±2.3	1.70±0.06	0.24	yes
C037	29.73	117.58	35.6±2.9	1.77±0.06	0.27	yes
C038	30.09	117.96	31.5±2.4	1.76±0.06	0.26	yes
C039	29.67	118.07	33.5±2.3	1.70±0.06	0.24	yes
C040	29.99	118.47	34.0±3.1	1.71±0.08	0.24	yes
C041	29.28	117.90	31.6±3.0	1.71±0.04	0.24	yes
C042	29.71	118.81	34.4±2.4	1.70±0.04	0.24	yes
C043	30.23	119.54	33.9±3.3	1.78±0.04	0.27	no
C044	29.92	119.77	32.5±3.3	1.77±0.07	0.27	no
C046	29.55	120.04	33.5±2.0	1.75±0.08	0.26	yes
C047	29.39	119.62	32.6±2.0	1.77±0.05	0.27	yes
C048	29.22	120.11	34.0±2.0	1.71±0.05	0.24	yes
C049	28.98	119.92	32.9±2.5	1.76±0.06	0.26	yes
C050	29.90	119.11	35.5±2.1	1.77±0.06	0.27	yes
C051	29.13	118.23	35.0±2.1	1.69±0.05	0.23	yes
C052	29.15	118.93	33.9±3.3	1.73±0.08	0.25	yes
C053	28.92	118.42	35.4±2.6	1.70±0.05	0.24	yes
C054	28.71	119.18	33.5±1.8	1.77±0.05	0.27	yes
C055	28.56	120.12	33.9±2.0	1.70±0.07	0.24	yes
C056	28.45	118.68	34.0±2.6	1.78±0.05	0.27	yes
C057	28.21	119.13	33.0±2.8	1.76±0.06	0.26	yes
C058	28.18	119.79	32.1±3.3	1.81±0.06	0.28	yes
C059	27.89	119.21	33.4±1.8	1.71±0.08	0.24	yes
C060	27.72	119.52	34.5±2.3	1.70±0.06	0.24	yes
C061	27.42	117.57	30.1±1.8	1.75±0.06	0.26	yes

C062	27.48	118.15	33.0±2.2	1.73±0.07	0.25	yes
C063	27.48	118.80	32.4±2.2	1.75±0.05	0.26	yes
C064	27.04	117.13	31.5±2.9	1.75±0.05	0.26	yes
C065	27.02	117.64	30.5±2.9	1.75±0.08	0.26	yes
C066	27.01	118.22	31.0±2.2	1.71±0.04	0.24	yes
C067	27.14	119.11	31.5±2.3	1.78±0.04	0.27	yes
C069	26.56	117.63	31.0±1.7	1.73±0.06	0.25	yes
C073	28.22	117.68	33.0±2.2	1.75±0.08	0.26	yes
C074	27.94	118.36	34.1±1.6	1.74±0.06	0.25	yes
C075	28.05	118.32	35.0±2.0	1.70±0.06	0.24	yes
C076	28.11	118.09	33.6±2.2	1.74±0.06	0.25	yes
C077	28.26	118.05	32.5±2.0	1.74±0.09	0.25	yes
C078	28.37	118.04	32.0±2.2	1.79±0.05	0.27	yes
C079	28.51	117.95	34.1±2.3	1.69±0.05	0.23	yes
C080	28.60	117.87	33.6±1.7	1.75±0.10	0.26	yes
C081	28.73	117.80	35.0±3.0	1.70±0.06	0.24	no
C082	28.84	117.69	33.4±2.8	1.71±0.08	0.24	yes
C083	28.95	117.65	33.5±2.0	1.72±0.05	0.24	yes
C084	29.10	117.56	32.0±2.2	1.75±0.04	0.26	yes
HN02	32.15	113.45	34.5±1.8	1.74±0.07	0.25	yes
HN04	32.07	115.13	32.5±1.9	1.79±0.11	0.27	yes
HN05	32.06	115.78	34.0±2.2	1.73±0.06	0.25	yes
HN08	31.59	113.75	37.6±1.6	1.69±0.08	0.23	yes
HN09	31.58	114.44	33.6±2.4	1.71±0.05	0.24	yes
HN10	31.64	115.02	33.5±2.8	1.77±0.06	0.27	yes
HN12	31.05	113.81	34.0±2.2	1.76±0.05	0.26	no
HN13	31.03	114.37	33.0±1.7	1.65±0.06	0.21	yes
HN14	31.01	114.87	32.1±2.5	1.73±0.06	0.25	yes
HN15	31.13	115.54	36.5±2.3	1.73±0.06	0.25	yes
HN19	30.62	113.64	36.0±2.7	1.72±0.06	0.24	yes
HN20	30.65	114.78	33.9±3.3	1.70±0.07	0.24	yes
HN21	30.60	115.24	34.4±3.3	1.70±0.07	0.24	yes
HN23	30.19	113.23	33.1±2.0	1.72±0.09	0.24	yes
HN25	30.10	114.65	31.9±2.8	1.70±0.06	0.24	yes
HN26	29.72	113.23	33.0±1.3	1.70±0.05	0.24	yes
HN29	29.69	115.24	34.0±2.3	1.76±0.04	0.26	yes
HN33	29.21	113.75	35.0±1.9	1.75±0.06	0.26	yes
HN34	29.26	114.38	35.1±2.0	1.67±0.06	0.22	yes
HN35	29.20	114.89	35.4±1.4	1.68±0.07	0.23	no
HN37	28.58	113.30	33.1±2.0	1.70±0.06	0.24	yes
HN38	28.72	113.72	35.5±3.3	1.67±0.11	0.22	yes
HN39	28.74	114.33	31.0±2.0	1.79±0.07	0.27	yes
HN40	28.75	114.96	35.4±1.7	1.65±0.05	0.21	yes
AH_ANQ	30.58	117.02	30.9±2.5	1.76±0.08	0.26	yes

AH_BAS	31.47	117.38	32.4±1.6	1.75±0.10	0.26	yes
AH_BEB	32.91	117.30	31.5±1.4	1.70±0.06	0.24	yes
AH_BZY	31.40	116.22	35.5±2.1	1.78±0.06	0.27	yes
AH_CHZ	32.29	118.28	28.4±3.2	1.72±0.04	0.24	yes
AH_DYN	32.64	117.47	32.5±1.6	1.77±0.07	0.27	yes
AH_FZL	31.35	116.27	36.5±2.3	1.78±0.04	0.27	yes
AH_HBE	33.98	116.79	35.4±2.2	1.77±0.06	0.27	yes
AH_HEF	31.82	117.14	33.5±1.9	1.76±0.07	0.26	yes
AH_HNA	32.63	116.80	33.4±1.6	1.75±0.07	0.26	yes
AH_HSH	31.77	118.06	30.9±2.1	1.78±0.09	0.27	yes
AH_HUS	29.71	118.38	34.0±2.3	1.71±0.05	0.24	yes
AH_JAS	32.81	118.26	29.9±2.0	1.77±0.05	0.27	yes
AH_JIX	30.70	118.38	34.1±2.3	1.71±0.06	0.24	yes
AH_JZA	31.69	115.88	36.4±2.0	1.70±0.07	0.24	yes
AH_LAN	31.72	116.50	34.9±2.0	1.73±0.07	0.25	yes
AH_MAS	31.69	118.57	29.6±2.2	1.76±0.04	0.26	yes
AH_MCG	33.35	116.48	33.9±1.9	1.68±0.08	0.23	yes
AH_SCH	31.35	116.98	34.4±1.7	1.76±0.05	0.26	yes
AH_SIX	33.56	117.86	32.6±1.8	1.75±0.07	0.26	yes
AH_SJH	31.44	116.09	36.4±1.9	1.79±0.10	0.27	yes
AH_TOL	30.93	117.82	31.9±1.8	1.76±0.07	0.26	yes
FJ_FDQY	27.12	120.26	30.0±2.4	1.82±0.07	0.28	yes
FJ_NDZW	26.68	119.56	32.0±1.3	1.76±0.07	0.26	yes
FJ_NPDK	26.62	118.19	31.5±1.9	1.68±0.05	0.23	yes
FJ_PCNP	27.91	118.52	33.5±1.7	1.75±0.06	0.26	yes
FJ_SNQY	27.40	119.48	33.6±1.7	1.71±0.06	0.24	yes
FJ_SWDT	27.33	117.48	32.0±1.7	1.70±0.05	0.24	yes
FJ_TNSC	26.91	117.18	33.0±1.9	1.68±0.04	0.23	yes
FJ_WYXF	27.75	118.01	32.9±3.3	1.76±0.05	0.26	yes
FJ_ZHNZ	27.36	118.86	32.5±1.7	1.74±0.05	0.25	yes
HA_PDS	33.71	113.30	32.0±3.2	1.70±0.07	0.24	yes
HA_SC	31.79	115.42	33.1±3.3	1.74±0.06	0.25	yes
HA_XY	32.13	114.01	32.0±2.0	1.74±0.06	0.25	yes
HA_ZMD	33.13	113.75	31.0±2.0	1.71±0.05	0.24	yes
HB_DWU	31.50	114.12	35.5±1.9	1.72±0.05	0.24	yes
HB_HME	30.14	115.89	35.0±2.1	1.71±0.03	0.24	yes
HB_JGS	29.40	114.66	36.4±2.2	1.68±0.06	0.23	yes
HB_MCH	31.13	115.16	32.0±1.5	1.76±0.09	0.26	yes
HB_SZH	31.63	113.39	36.6±2.1	1.69±0.06	0.23	yes
HB_WHA	30.51	114.51	35.5±1.9	1.65±0.11	0.21	yes
HB_WHN	30.54	114.35	35.5±2.3	1.69±0.10	0.23	yes
HB_XNI	29.72	114.41	36.1±2.0	1.76±0.07	0.26	yes
HB_YNX	30.02	115.11	32.9±2.5	1.79±0.09	0.27	yes
HN_LIY	28.19	113.59	32.0±1.5	1.68±0.04	0.23	yes

HN_MIL	28.80	113.08	31.1±1.9	1.76±0.06	0.26	yes
JS_CS	31.67	120.72	31.0±3.3	1.78±0.08	0.27	no
JS_CZ	31.77	120.10	32.9±3.3	1.79±0.04	0.27	yes
JS_GC	31.35	119.02	31.0±2.7	1.73±0.06	0.25	yes
JS_GY	32.75	119.45	28.9±2.5	1.79±0.05	0.27	no
JS_HUA	33.62	119.01	29.0±2.0	1.79±0.06	0.27	yes
JS_LIS	31.65	119.11	29.5±1.9	1.79±0.05	0.27	yes
JS_LY0	31.38	119.46	31.9±2.7	1.72±0.05	0.24	no
JS_NJ	32.05	118.85	28.0±2.5	1.78±0.06	0.27	no
JS_NT	31.95	120.89	32.0±3.3	1.76±0.05	0.26	no
JS_SH	33.54	118.16	31.9±1.5	1.78±0.07	0.27	yes
JS_WX	31.53	120.22	32.5±2.8	1.74±0.03	0.25	yes
JS_XH	32.89	119.85	29.0±2.5	1.79±0.05	0.27	yes
JS_XY	33.00	118.49	28.5±3.3	1.79±0.06	0.27	yes
JS_ZJ	32.15	119.45	29.5±2.0	1.77±0.04	0.27	yes
JX.XIS	29.04	114.56	32.0±2.0	1.73±0.07	0.25	yes
JX_DUC	29.26	116.19	30.4±1.8	1.70±0.08	0.24	yes
JX_FEC	27.93	115.73	30.0±1.6	1.76±0.07	0.26	yes
JX_JDZ	29.28	117.26	31.4±2.3	1.65±0.07	0.21	yes
JX_JGS	26.56	114.16	31.4±1.9	1.70±0.05	0.24	yes
JX_JIA	27.06	115.04	29.6±2.3	1.72±0.07	0.24	yes
JX_JIJ	29.65	116.01	34.4±2.0	1.68±0.05	0.23	yes
JX_JIX	28.21	116.25	30.5±1.5	1.68±0.07	0.23	yes
JX_LEA	27.41	115.85	29.5±1.6	1.78±0.05	0.27	no
JX_NAC	27.54	116.58	32.9±2.3	1.72±0.07	0.24	yes
JX_SHR	28.44	117.98	30.0±2.8	1.76±0.06	0.26	yes
JX_YIC	27.81	114.37	31.5±1.5	1.72±0.07	0.24	yes
JX_YOX	29.08	115.61	32.5±1.5	1.69±0.05	0.23	yes
JX_YUG	28.83	116.63	29.1±1.4	1.70±0.05	0.24	yes
SH_HUH	30.45	119.80	33.9±3.3	1.73±0.09	0.25	yes
SH_JIZ	31.08	120.90	30.6±2.3	1.70±0.06	0.24	yes
SH_TPS	31.29	120.49	32.4±2.3	1.72±0.06	0.24	yes
ZJ_CHA	29.47	118.41	34.0±2.6	1.73±0.08	0.25	yes
ZJ_CHX	31.09	119.66	32.5±3.2	1.76±0.08	0.26	yes
ZJ_HAY	30.38	120.85	31.5±2.4	1.68±0.04	0.23	yes
ZJ_HAZ	30.27	120.11	31.4±2.2	1.79±0.06	0.27	yes
ZJ_HUZ	30.84	120.10	31.0±1.5	1.76±0.05	0.26	yes
ZJ_JAX	30.78	120.89	32.5±1.6	1.68±0.11	0.23	yes
ZJ_JIN	27.98	119.63	33.0±1.6	1.74±0.07	0.25	yes
ZJ_LIA	30.14	118.96	36.5±1.9	1.68±0.06	0.23	yes
ZJ_QIY	27.62	119.06	35.0±2.0	1.69±0.05	0.23	yes
ZJ_SOY	28.45	119.51	33.0±1.7	1.76±0.05	0.26	yes
ZJ_WEZ	27.93	120.67	31.9±2.0	1.76±0.05	0.26	yes
ZJ_WXJ	28.70	118.83	33.1±2.0	1.75±0.07	0.26	yes

ZJ_XAJ	29.48	119.27	36.0±2.2	1.69±0.05	0.23	yes
ZJ_XIC	29.48	120.86	32.5±1.4	1.70±0.06	0.24	yes
ZJ_XJU	28.88	120.77	31.1±2.2	1.82±0.07	0.28	yes
ZJ_XSH	29.89	120.11	33.4±2.9	1.70±0.05	0.24	yes
ZJ_YOK	28.96	120.20	32.5±2.0	1.75±0.05	0.26	yes
