

APPENDIX TO

AZIMUTHAL ANISOTROPY OF RECEIVER FUNCTIONS IN THE CENTRAL SOUTH CHINA BLOCK AND ITS TECTONIC IMPLICATIONS

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Station	Lat. (°)	Lon. (°)	H (km)	κ
ANQ	30.6	117.0	30.3	1.79
BAS	31.5	117.4	31.5	1.77
BEB	32.9	117.3	32.0	1.75
BZY	31.4	116.2	36.1	1.76
CHZ	32.3	118.3	30.5	1.77
DYN	32.6	117.5	33.0	1.76
FYT	32.9	115.8	33.8	1.81
FZL	31.3	116.3	34.4	1.83
HBE	34.0	116.8	33.1	1.84
HEF	31.8	117.1	32.6	1.82
HSH	31.8	118.1	29.5	1.88
HUS	29.7	118.4	32.7	1.77
JAS	32.8	118.3	28.6	1.83
JIX	30.7	118.4	31.7	1.82
JZA	31.7	115.9	34.4	1.73
LAN	31.7	116.5	33.9	1.77
LNA	31.3	116.1	35.6	1.86
MAS	31.7	118.6	30.9	1.75
MCG	33.4	116.5	31.5	1.75

Station	Lat. (°)	Lon. (°)	H (km)	κ
SCH	31.3	117	32.1	1.82
SIX	33.6	117.9	31.3	1.78
SJH	31.4	116.1	34.5	1.80
CTTZ	25.8	116.4	31.0	1.78
DSXP	23.7	117.4	26.9	1.80
FDQY	27.1	120.3	29.1	1.86
FQDZ	25.7	119.3	28.6	1.85
FZCM	26.0	119.4	30.0	1.87
GTSK	26.4	118.7	29.9	1.79
HAHF	25.0	117.5	31.0	1.73
HAJF	25.0	119.0	27.2	1.79
LJTL	26.4	119.9	30.1	1.80
LYXP	25.1	117.0	30.4	1.80
MQDQ	26.4	118.9	30.9	1.81
MXXF	26.4	117.2	31.0	1.80
NDZW	26.7	119.6	30.7	1.81
NPDK	26.6	118.2	30.1	1.73
PCNP	27.9	118.5	32.2	1.78
PHSG	24.4	117.3	28.4	1.84

Station	Lat. (°)	Lon. (°)	H (km)	κ
PTAQ	25.5	119.9	28.6	1.82
PTLC	25.5	119.0	27.8	1.85
PTNR	25.2	119.5	27.8	1.82
PTTC	25.5	119.8	28.6	1.82
QZH	24.9	118.6	28.0	1.80
SHLC	25.0	116.5	30.6	1.74
SNQY	27.4	119.5	31.5	1.78
SWDT	27.3	117.5	30.3	1.74
DJI	32.6	111.5	33.7	1.74
DWU	31.5	114.1	34.3	1.74
HME	30.1	115.9	34.3	1.73
JGS	29.4	114.7	34.1	1.78
JME	31.1	112.2	32.5	1.80
JYU	29.8	113.8	36.0	1.74
MCH	31.1	115.2	32.6	1.76
NZH	31.4	111.6	34.0	1.78
SSH	29.6	112.7	28.8	1.74
SYA	32.6	110.7	34.1	1.83
SZH	31.6	113.4	35.3	1.72
WHA	30.5	114.5	35.0	1.73
WHN	30.5	114.4	30.6	1.78
XFA	32.0	112.0	33.1	1.70
XNI	29.7	114.4	36.3	1.74
YCH	30.8	111.3	36.9	1.69
YDU	30.2	111.2	32.7	1.77
YNX	30.0	115.1	33.6	1.73
YXI	33.0	110.4	37.3	1.69
ZHX	31.2	112.7	34.9	1.73
ZSH	32.2	110.2	35.9	1.79
CHL	26.8	113.5	31.0	1.65
CHZ	25.8	113.0	31.2	1.78
CNS	28.2	112.9	30.2	1.74
HEY	26.9	112.5	28.7	1.74
LIY	28.2	113.6	31.3	1.68
LOD	27.7	112.0	30.8	1.76
MIL	28.8	113.1	30.7	1.74
NIX	28.0	112.3	29.3	1.71
SHY	27.2	111.5	33.0	1.73
JGS	29.4	111.9	31.5	1.74

Station	Lat. (°)	Lon. (°)	H (km)	κ
JIS	28.1	109.7	33.8	1.80
YIY	28.6	112.3	30.9	1.74
YOZ	26.2	111.6	32.6	1.71
ah201	31.8	117.2	33.2	1.78
ah202	31.7	117.5	31.7	1.79
ah203	31.5	118.2	31.5	1.77
ah204	31.7	118.6	30.5	1.77
ah205	31.1	119.2	29.8	1.87
ah206	31.6	116.4	32.9	1.8
ah207	31.3	117.0	32.1	1.82
ah208	31.2	117.8	30.1	1.82
ah209	31.1	118.2	31.0	1.84
ah210	31.0	118.9	29.3	1.81
ah211	31.1	116.3	35.5	1.82
ah212	30.9	117.4	33.2	1.81
ah213	30.7	118.4	31.8	1.81
ah214	30.7	119.0	32.2	1.73
ah215	30.8	119.3	29.4	1.86
ah216	30.5	116.2	35.4	1.74
ah217	31.1	116.9	32.5	1.77
ah218	30.6	117.0	30.1	1.83
ah219	30.3	118.5	33.1	1.74
C001	29.2	115.4	30.4	1.73
C002	28.7	115.4	29.7	1.74
C003	28.3	115.4	29.1	1.74
C004	26.9	115.9	28.4	1.80
C005	26.6	116.1	30.9	1.70
C006	28.3	115.9	28.7	1.75
C007	27.8	116.0	28.7	1.83
C008	27.4	116.1	30.4	1.81
C009	27.1	116.5	31.8	1.76
C010	30.3	115.5	30.3	1.82
C011	29.7	115.7	31.6	1.76
C012	27.7	115.6	29.7	1.75
C013	29.2	115.8	28.1	1.71
C014	28.8	116.2	28.2	1.73
C015	28.2	116.6	29.3	1.8
C016	27.9	116.7	29.2	1.78
C017	27.5	116.9	31.7	1.74

Station	Lat. (°)	Lon. (°)	H (km)	κ
C019	30.3	116.1	33.7	1.85
C020	29.1	116.7	33.8	1.80
C022	27.9	117.2	32.1	1.77
C023	28.8	117.3	30.8	1.79
C029	29.8	116.9	33.6	1.74
C030	29.9	116.9	32.8	1.74
C031	30.0	116.8	33.0	1.72
C035	30.1	117.3	34.9	1.75
C036	30.4	117.9	33.0	1.75
C037	29.7	117.6	33.4	1.78
C038	30.1	118.0	32.4	1.82
C039	29.7	118.1	32.5	1.73
C040	30.0	118.5	31.6	1.78
C041	29.3	117.9	31.2	1.76
C042	29.7	118.8	34.3	1.77
C043	30.2	119.5	33.0	1.79
C044	29.9	119.8	30.4	1.84
C045	29.7	119.4	33.9	1.76
C046	29.6	120.0	32.0	1.80
C047	29.4	119.6	30.1	1.88
C048	29.2	120.1	32.7	1.75
C049	29.0	119.9	31.7	1.8
C050	29.9	119.1	32.4	1.83
C051	29.1	118.2	33.5	1.73
C052	29.2	118.9	31.8	1.81
C053	28.9	118.4	33.7	1.74
C054	28.7	119.2	32.7	1.76
C055	28.6	120.1	33.3	1.70
C056	28.4	118.7	32.2	1.86
C057	28.2	119.1	31.5	1.82
C058	28.2	119.8	30.3	1.84
C059	27.9	119.2	32.5	1.74
C060	27.7	119.5	33.3	1.75
C062	27.5	118.1	31.8	1.74
C063	27.5	118.8	31.2	1.78
C064	27.0	117.1	31.1	1.74
C065	27.0	117.6	29.0	1.78
C066	27.0	118.2	30.0	1.77
C067	27.1	119.1	30.7	1.81

Station	Lat. (°)	Lon. (°)	H (km)	κ
C069	26.6	117.6	29.5	1.77
C070	26.2	117.6	30.9	1.74
C071	25.9	116.7	31.2	1.74
C072	25.6	117.6	30.9	1.76
C073	28.2	117.7	30.6	1.81
C074	27.9	118.4	32.1	1.79
C075	28.0	118.3	32.6	1.79
C076	28.1	118.1	32.1	1.78
C077	28.3	118.1	32.4	1.76
C079	28.5	118	32.5	1.74
C080	28.6	117.9	31.9	1.79
C081	28.7	117.8	33.9	1.74
C082	28.8	117.7	34.4	1.73
C083	29.0	117.7	33.6	1.72
C084	29.1	117.6	32.4	1.74
C201	25.3	114.8	28.0	1.72
HA01	25.5	112.1	31.3	1.71
HA03	25.5	112.3	31.3	1.7
HA04	25.5	112.4	32.0	1.71
HA05	25.5	112.6	30.5	1.79
HA06	22.4	112.7	31.1	1.77
HA07	25.4	112.8	30.8	1.74
HA08	25.4	112.9	29.7	1.78
HJ01	26.0	112.6	29.7	1.72
HJ02	25.9	113.3	30.3	1.73
HJ03	25.9	113.8	29.6	1.76
HJ04	26.4	112.4	29.0	1.77
HJ05	26.4	113.2	29.7	1.74
HJ06	26.3	113.6	31.2	1.72
HJ07	26.8	113.5	30.8	1.65
HJ08	27.1	113.0	28.7	1.71
HJ09	27.2	113.4	31.3	1.77
HJ10	27.4	112.4	29.6	1.69
HJ11	27.5	112.9	28.5	1.75
HJ12	27.5	113.4	29.5	1.74
HJ13	27.9	112.8	29.2	1.74
HJ14	28.1	113.4	30.4	1.71
HJ15	28.2	113.9	30.6	1.72
HJ16	28.2	114.4	28.9	1.84

Station	Lat. (°)	Lon. (°)	H (km)	κ
HJ17	28.1	115.0	29.6	1.67
HJ18	27.9	115.0	28.8	1.74
HJ19	27.6	115.2	28.6	1.70
HJ20	27.4	115.3	30.0	1.67
HJ21	27.5	114.6	29.0	1.74
HJ22	27.5	113.9	32.4	1.72
HJ23	27.3	114.9	28.0	1.73
HJ24	27.1	114.5	28.3	1.75
HJ25	27.0	114.0	30.2	1.74
HJ26	26.6	114.5	27.1	1.77
HJ27	26.6	115.0	28.4	1.81
HJ28	26.8	115.4	30.1	1.73
HJ29	26.2	114.0	30.4	1.80
HJ30	26.2	114.4	31.2	1.79
HJ31	25.9	114.2	29.4	1.77
HJ32	26.3	115.7	30.6	1.72
HN01	32.0	112.8	34.0	1.81
HN02	32.1	113.4	33.8	1.75
HN04	32.1	115.1	32.7	1.76
HN05	32.1	115.8	31.7	1.79
HN06	31.5	112.2	32.3	1.77
HN07	31.6	112.9	34.4	1.76
HN08	31.6	113.7	36.2	1.74
HN09	31.6	114.4	32.7	1.73
HN10	31.6	115.0	32.6	1.79
HN11	31.5	113.3	32.6	1.80
HN12	31.1	113.8	35.2	1.80
HN14	31.0	114.9	32.9	1.80
HN15	31.1	115.5	35.0	1.75
HN16	30.9	112.2	32.2	1.80
HN17	30.8	113.0	34.7	1.72
HN18	30.4	112.2	29.7	1.84
HN19	30.6	113.6	31.0	1.78
HN20	30.7	114.8	32.1	1.77
HN21	30.6	115.2	32.8	1.72
HN22	29.8	112.2	30.9	1.70
HN23	30.2	113.2	31.3	1.70
HN24	30.1	114.1	32.8	1.75
HN25	30.1	114.7	35.0	1.75

Station	Lat. (°)	Lon. (°)	H (km)	κ
HN26	29.7	113.2	31.9	1.74
HN27	29.7	114.1	35.0	1.84
HN28	29.6	114.8	35.0	1.71
HN29	29.7	115.2	32.9	1.77
HN30	29.2	112.1	32.0	1.73
HN31	29.1	112.7	31.0	1.76
HN32	29.1	113.3	31.4	1.78
HN33	29.2	113.8	33.4	1.81
HN34	29.3	114.4	34.9	1.66
HN35	29.2	114.9	34.2	1.70
HN36	28.6	112.9	32.7	1.68
HN37	28.6	113.3	31.8	1.73
HN38	28.7	113.7	33.9	1.72
HN39	28.7	114.3	32.6	1.71
HN40	28.8	115.0	33.2	1.70
ANY	25.1	115.4	30.1	1.75
DAY	25.4	114.4	29.3	1.75
DUC	29.3	116.2	29.6	1.71
FEC	27.9	115.7	29.0	1.74
GAA	28.4	115.4	29.6	1.75
GAZ	25.8	115.0	27.7	1.73
HUC	25.6	115.8	29.5	1.72
JDZ	29.3	117.3	30.5	1.68
JGS	26.6	114.2	30.1	1.72
JIA	27.1	115.0	28.3	1.74
JIJ	29.6	116.0	33.2	1.72
JIX	28.2	116.2	28.7	1.74
LEA	27.4	115.8	28.5	1.79
LON	24.8	114.8	28.4	1.81
NAC	27.5	116.6	31.9	1.76
NNC	28.8	115.8	29.2	1.68
SHC	26.3	116.3	31.2	1.75
SHR	28.4	118.0	30.3	1.82
WAA	26.4	114.8	29.7	1.77
XIS	29.0	114.6	33.1	1.70
XUW	25.0	115.6	31.6	1.75
YIC	27.8	114.4	32.3	1.72
YOX	29.1	115.6	32.4	1.73
YUG	28.8	116.6	30.4	1.70

Station	Lat. (°)	Lon. (°)	H (km)	κ
DAX	31.6	121.5	30.6	1.77
DYS	30.6	122.1	30.4	1.77
HUH	30.4	119.8	32.8	1.76
JJZ	31.1	120.9	32.3	1.65
NAH	31.0	121.8	32.7	1.65
QHS	30.8	121.3	30.5	1.74
SHX	31.2	121.4	32.2	1.69
SSE	31.1	121.2	31.2	1.73
TMS	31.1	121.1	32.6	1.73
TPS	31.3	120.5	32.9	1.71
XKS	31.1	121.1	31.7	1.75
ZHY	31.2	121.5	32.8	1.69
BEL	29.9	121.8	31.3	1.83
CHA	29.5	118.4	31.4	1.82
CHX	31.1	119.7	31.7	1.79
HAY	30.4	120.8	28.5	1.78
HAZ	30.3	120.1	31.0	1.80
HUZ	30.8	120.1	30.5	1.78

Station	Lat. (°)	Lon. (°)	H (km)	κ
JAX	30.8	120.9	30.6	1.73
JIN	28.0	119.6	31.9	1.76
LIA	30.1	119.0	35.2	1.70
NIB	30.0	121.5	29.9	1.78
NIH	29.2	121.7	31.5	1.78
NJD	27.5	121.1	31.6	1.79
QIY	27.6	119.1	33.2	1.71
SHS	30.7	122.5	31.8	1.81
SOY	28.5	119.5	31.5	1.81
WEZ	27.9	120.7	31.7	1.79
WXJ	28.7	118.8	34.0	1.77
XAJ	29.5	119.3	35.3	1.74
XIC	29.5	120.9	31.6	1.75
YIX	29.8	121.3	31.2	1.79
YOK	29.0	120.2	32.4	1.75
YUQ	28.4	121.1	31.6	1.75
YUY	30.0	121.1	31.1	1.76
ZHS	30.0	122.1	32.0	1.73

Table S2. Estimated fast polarization direction and splitting time beneath each station in the study region. The first three columns are the station name, latitude, and longitude of the station; the fourth shows the event number; the fifth and sixth column indicates the fast polarization orientation (clockwise from north) and the standard deviation of the fast orientation; the seventh and eighth column indicates splitting time (s) and the standard deviation of the splitting time.

Station	Lat. (°)	Lon. (°)	No. RFs	Polarization (°)	SD of the Polarization	Splitting time (s)	SD of the Splitting Time
ANQ	30.6	117.0	159	70.2	6.37	0.25	0.08
ANY	25.1	115.4	127	48	6.73	0.36	0.06
BAS	31.5	117.4	122	-28.6	5.58	0.36	0.08
BZY	31.4	116.2	219	-42.7	5.31	0.35	0.06
CHA	29.5	118.4	143	34.2	6.87	0.31	0.07
CHZ	25.8	113.0	101	66	6.43	0.31	0.09
CHZ	32.3	118.3	101	44.5	13.47	0.27	0.06
CNS	28.2	112.9	156	64.7	4.7	0.37	0.08
DAY	25.4	114.4	133	77.6	6.44	0.29	0.08
DJI	32.6	111.5	250	-55.4	6.49	0.32	0.05
DSXP	23.7	117.4	115	69.5	4.72	0.4	0.12
DUC	29.3	116.2	112	-58.9	7.55	0.36	0.06

Station	Lat. (°)	Lon. (°)	No. RFs	Polarization (°)	SD of the Polarization	Splitting time (s)	SD of the Splitting Time
DWU	31.5	114.1	208	-29	6.91	0.26	0.07
DYN	32.6	117.5	184	-61.9	6.54	0.31	0.06
FDQY	27.1	120.3	117	13.5	7.2	0.3	0.07
FEC	27.9	115.7	130	85	3.9	0.47	0.09
FXI	31.9	110.7	215	74.6	2.13	0.6	0.08
FZL	31.3	116.3	202	88.6	3.45	0.5	0.07
GAA	28.4	115.4	108	65.7	4.28	0.19	0.07
GTSK	26.4	118.7	132	-17.1	4.61	0.38	0.09
HAHF	25.0	117.5	126	8.9	7.31	0.3	0.08
HAJF	25.0	119.0	133	63.7	4.44	0.43	0.1
HAY	30.4	120.8	122	37.8	14.11	0.17	0.06
HEF	31.8	117.1	79	-60.8	15.81	0.19	0.06
HEY	26.9	112.5	144	-24.9	7.49	0.27	0.09
HNA	32.6	116.8	224	-80.9	6.38	0.31	0.07
HSH	31.8	118.1	125	39.8	5.69	0.41	0.06
HUC	25.6	115.8	137	-88.6	6.43	0.29	0.08
HUH	30.4	119.8	164	-69.4	10.91	0.23	0.06
HUR	29.5	112.6	27	-19.8	5.47	0.39	0.11
HUS	29.7	118.4	130	64.6	3.87	0.46	0.08
HUZ	30.8	120.1	141	81.2	5.63	0.3	0.08
JDZ	29.3	117.3	136	88.4	7.4	0.25	0.09
JGS	29.4	114.7	93	76.9	5.85	0.3	0.09
JIA	27.1	115.0	141	47.3	5.09	0.44	0.07
JIJ	29.6	116.0	156	-88.4	4.7	0.35	0.08
JIN	28.0	119.6	67	-76.6	9.91	0.25	0.08
JIx	30.7	118.4	149	38.8	5.44	0.41	0.06
JIx	28.2	116.2	143	-24.9	8.38	0.21	0.08
JME	31.1	112.2	200	-43.1	8.83	0.21	0.07
JYU	29.8	113.8	175	-19.7	3.45	0.5	0.07
JZA	31.7	115.9	194	-21.2	7.01	0.24	0.08
LAN	31.7	116.5	167	-72.8	8.86	0.27	0.07
LEA	27.4	115.8	82	72.4	8.49	0.27	0.15
LIA	30.1	119.0	135	-89	2.84	0.56	0.08
LIY	28.2	113.6	45	32.3	6.91	0.41	0.08
LJTL	26.4	119.9	106	-17.9	3.65	0.45	0.08
LNA	31.3	116.1	208	-46.9	5.85	0.36	0.06
LON	24.8	114.8	116	55	7.12	0.4	0.1
LYXP	25.1	117.0	90	-6.7	4.75	0.35	0.1

Station	Lat. (°)	Lon. (°)	No. RFs	Polarization (°)	SD of the Polarization	Splitting time (s)	SD of the Splitting Time
MAS	31.7	118.6	141	6.1	4.78	0.4	0.07
MCG	33.4	116.5	231	-29.1	4.95	0.35	0.06
MCH	31.1	115.2	191	46.1	7.95	0.27	0.06
MQDQ	26.4	118.9	130	20.9	6.65	0.43	0.08
MF	26.4	117.2	119	1.8	4.62	0.39	0.09
NDZW	26.7	119.6	122	54.9	5.98	0.4	0.07
NIB	30.0	121.5	125	29.6	12.26	0.16	0.08
NNC	28.8	115.8	155	-7.9	3.56	0.47	0.08
PCNP	27.9	118.5	128	-88.4	7.3	0.27	0.09
PHSG	24.4	117.3	121	-65.6	13.56	0.2	0.07
QHS	30.8	121.3	132	65.1	9.08	0.25	0.06
QIY	27.6	119.1	115	-8.2	6.81	0.25	0.09
QZH	24.9	118.6	141	38	10.37	0.28	0.06
SHC	26.3	116.3	129	-87.5	7.72	0.27	0.11
SHR	28.4	118.0	128	-30.7	9.3	0.24	0.08
SHS	30.7	122.5	109	62.1	5.04	0.38	0.08
SHX	31.2	121.4	71	11.9	7.04	0.29	0.08
SHY	27.2	111.5	124	-23.8	6.57	0.3	0.08
SIX	33.6	117.9	175	-38.4	5.75	0.36	0.07
SJH	31.4	116.1	173	-84.7	3.28	0.62	0.07
SOY	28.5	119.5	59	68.9	8.36	0.24	0.09
SSH	29.6	112.7	174	-23.7	4.86	0.35	0.08
ah202	31.7	117.5	71	20.5	5.63	0.35	0.06
ah204	31.7	118.6	85	15.9	5.67	0.37	0.08
ah206	31.6	116.4	51	-83.5	13.71	0.16	0.1
ah207	31.3	117.0	119	-77.9	8.89	0.22	0.07
ah213	30.7	118.4	101	53.8	3.41	0.51	0.07
C005	26.6	116.1	23	68.7	5.41	0.41	0.12
C023	28.8	117.3	73	49	6.97	0.31	0.07
C030	29.9	116.9	58	-15.6	4.06	0.44	0.08
C031	30.0	116.8	30	3.7	2.59	0.42	0.14
C035	30.1	117.3	50	-13.9	2.21	0.45	0.12
C040	30.0	118.5	56	73.2	4.36	0.47	0.1
C041	29.3	117.9	67	69.2	6.16	0.35	0.11
C047	29.4	119.6	69	20.7	5.92	0.39	0.06
C049	29.0	119.9	90	86.8	8.84	0.19	0.08
C053	28.9	118.4	91	30.6	12.51	0.27	0.08
C059	27.9	119.2	77	-58.7	11.45	0.2	0.06

Station	Lat. (°)	Lon. (°)	No. RFs	Polarization (°)	SD of the Polarization	Splitting time (s)	SD of the Splitting Time
C065	27.0	117.6	69	-37.8	5.39	0.37	0.07
C070	26.2	117.6	85	75	9.85	0.3	0.08
C071	25.9	116.7	78	81	9.35	0.25	0.08
C073	28.2	117.7	64	-83.8	7.09	0.3	0.08
C077	28.3	118.1	47	-86.9	5.14	0.43	0.09
HJ06	26.3	113.6	76	66.6	5.66	0.42	0.07
HJ13	27.9	112.8	78	14.7	3.86	0.43	0.08
HJ14	28.1	113.4	74	57.8	4.15	0.42	0.09
HJ16	28.2	114.4	74	47.8	4.14	0.51	0.08
HJ28	26.8	115.4	64	76.8	4.52	0.41	0.09
HJ29	26.2	114.0	64	66.5	4.84	0.49	0.1
HN02	32.1	113.4	46	-67.7	4.98	0.51	0.07
HN05	32.1	115.8	52	-61.5	8.46	0.33	0.07
HN06	31.5	112.2	56	-17.2	5.72	0.32	0.11
HN10	31.6	115.0	65	-22.9	3.03	0.54	0.1
HN11	31.5	113.3	90	-40.7	4.11	0.54	0.07
HN34	29.3	114.4	49	77.9	4.05	0.46	0.12
ANQ	30.6	117.0	159	70.2	6.37	0.25	0.08