



Supplement of

Seismic anisotropy under Zagros foreland from SKS splitting observations

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Table S1. Splitting parameters (φ and δt) for selected events recorded at stations DHK1 and ANB1, obtained using both the minimum energy (min-T) and cross-correlation (correl) methods. Ev-Lat: event latitude; Ev-Lon: event longitude; Baz: back-azimuth; Dist: epicentral distance; H: event depth.

Station	Event	Ev-Lat	Ev-Lon	Baz (°)	Dist (°)	H (km)	Phase	φ (o) (min-T)	δt (s) (min-T)	φ (o) (correl)	δt (s) (correl)
DHK1	2014-121-06-36-36	-21.44	170.31	86	132	116	PKS	Null	0.0	Null	0.0
ANB1	2018-350-09-42-37	-3.92	140.23	89	98	62	SKSac	32	0.7	16	0.7
ANB1	2019-048-14-35-55	-3.34	152.13	82	108	368	SKSac	32	0.7	52	0.8
ANB1	2019-048-14-35-55	-3.34	152.13	82	108	368	SKKSac	16	0.5	9	0.6
ANB1	2019-053-10-17-22	-2.2	-77.02	286	116	132	SKSac	56	0.4	47	0.4
ANB1	2019-053-10-17-22	-2.2	-77.02	286	116	132	SKKSac	Null	0.0	56	0.1
ANB1	2019-060-08-50-42	-14.7	-70.14	270	117	267	SKSac	44	0.7	18	0.7
ANB1	2019-099-17-53-59	-58.61	-25.26	211	108	45	SKKSac	Null	0.0	Null	0.0
ANB1	2019-267-03-23-40	19.08	-67.27	297	96	10	SKSac	75	0.3	50	0.1
ANB1	2019-294-02-52-29	-19.02	169.49	87	130	231	SKKSac	47	0.9	27	0.6
ANB1	2019-308-21-53-25	-31.84	-71.38	252	126	53	SKKSac	57	1.1	48	0.8
ANB1	2019-359-03-36-01	50.61	-129.97	356	96	6	SKSac	29	0.7	33	0.7
ANB1	2020-127-13-53-56	-6.79	129.86	98	91	107	SKSac	69	0.6	40	0.5
ANB1	2020-136-11-03-27	38.17	-117.85	345	107	3	SKSac	8	0.8	36	0.7
ANB1	2020-152-05-09-38	-15.32	-70.76	270	118	186	SKSac	30	0.6	26	0.7
ANB1	2020-155-07-35-34	-23.3	-68.42	261	120	97	SKSac	42	0.9	24	0.8
ANB1	2020-335-22-55-03	-24.33	-67.02	259	119	189	SKSac	44	0.8	46	0.8
ANB1	2020-341-16-47-42	-20.37	-69.07	264	119	105	SKSac	32	0.7	32	0.7
DHK1	2020-362-21-39-14	-39.34	-74.99	247	132	10	PKS	29	0.8	24	0.8
ANB1	2021-010-03-54-14	-24.04	-66.57	259	119	217	SKSac	25	0.8	27	0.8
ANB1	2021-114-00-23-38	-18.88	-176.25	78	142	301	SKKSac	36	0.6	37	0.6
ANB1	2021-127-23-35-14	-18.74	-177.57	79	141	384	SKKSac	42	1.1	29	0.9

Table S2. Individual splitting measurements

This table is provided as a separate Excel file available online at <https://data.mendeley.com/datasets/t7zgvdwpm/1>

Figure S1

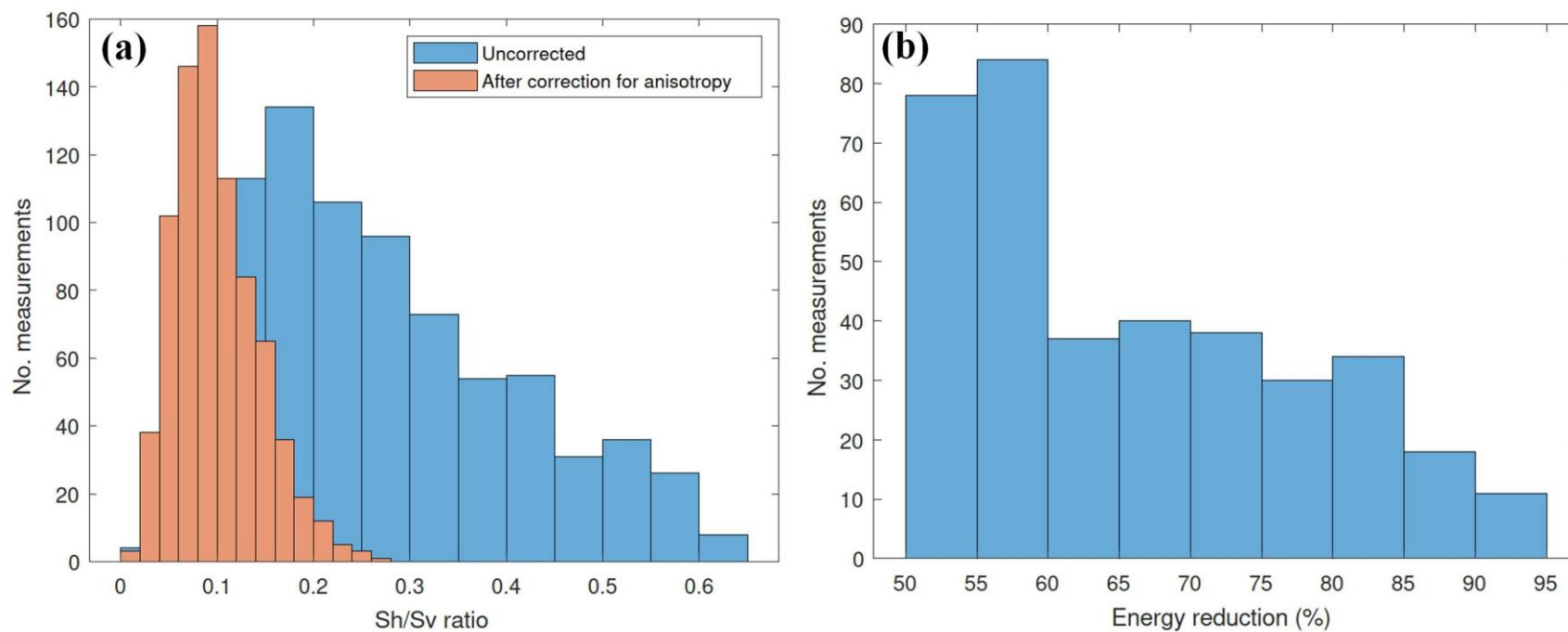


Figure S1. (a) Energy ratio of the Sh (T) component to the Sv (R) component before (blue) and after (orange) correction for splitting parameters. (b) Energy reduction of the Sh (T) component after correction for splitting parameters (only non-null splitting measurements).