

Table 2. Obtained average splitting parameter (ϕ_s and δt_s) estimated from direct-S wave splitting measurement.

stations	latitude(°)	longitude(°)	ϕ_s (°)	δt_s (sec)	number of event at a station	contributing reference stations
ES01	31.26	92.09	73.9	1.5	31	2,3,4,5,7,8,9,10,11,12,36,38,39,40,41
ES02	31.00	92.54	75.7	1.5	26	1,3,4,5,7,8,9,10,11,12,13,38,40,41
ES03	30.75	92.86	81.7	1.2	16	2, 4,5,7,8,10,11,12,38,39,43
ES04	30.65	93.25	91.5	1.2	11	1,3,5,7,8,10,11,12
ES05	31.68	92.40	71.2	1.1	14	1,2,3,4,7,8,10,11,12,13
ES07	31.48	93.70	93.8	1.0	15	1,2,3,4,5,8,9,10,11,12,14,38
ES08	31.28	93.84	106.3	0.9	12	1,2,4,5,7,10,11,12,13
ES09	31.91	93.06	81.5	1.1	15	1,3,5,8,10,11,12,13,14
ES10	31.84	93.79	103.1	1.0	19	1,2,3,4,5,7,8,9,11,12,14,38
ES11	31.91	94.14	96.2	1.2	25	1,2,3,4,5,7,8,9,10,12,14,36,38
ES12	31.59	94.71	101.3	1.2	28	1,2,3,4,5,7,8,9,10,11,13,14,15,23,25,38
ES13	31.54	95.28	88.5	1.4	15	2,4,9,11,12,13,14,15,26,30,36,38
ES14	31.25	95.90	102.9	1.2	24	3,4,7,9,10,11,12,13,15,17,23,25,31
ES15	31.19	96.50	104.2	1.0	09	11,12,14,16,25,36,38
ES16	31.18	97.02	117.0	1.4	01	13
ES17	31.27	97.55	135.4	1.0	11	18,23,25,31
ES18	31.30	97.96	122.0	0.8	02	17
ES19	30.81	95.71	106.6	1.5	09	3,4,7,8,11,12,38
ES20	30.73	96.10	108.0	0.9	01	11
ES22	30.81	96.70	110.0	0.9	01	14
ES23	30.69	97.26	96.2	1.0	16	12,15,25,31
ES24	30.50	97.14	106.0	1.1	03	13, 15
ES25	30.12	97.30	121.1	0.9	10	18,23,31
ES26	29.96	97.51	142.2	1.0	03	14,30,31
ES27	29.64	97.90	130.0	1.1	01	26
ES29	30.01	96.69	84.0	1.1	16	14,15,23,25,31
ES30	29.32	97.19	110.8	1.1	07	25,26,27,31
ES31	29.51	96.76	82.4	1.2	16	14,17,25,26,30,31
ES32	29.76	96.10	103.0	1.4	02	13,30
ES33	29.77	95.70	67.1	0.6	10	3,7,11,12,14,15,30,38
ES34	29.91	95.47	84.8	1.2	20	3,4,7,8,10,11,12,14,15,16,36,38
ES35	29.96	94.78	111.9	1.1	09	1,4,10,14,15,16,31,36,38
ES36	29.81	93.91	86.2	1.1	13	1,4,5,7,8,11,13,14,15,38,40,41
ES37	29.90	93.51	80.5	1.4	07	1,10,13,36,39,40,41
ES38	30.02	92.97	72.5	1.2	18	3,4,5,7,8,10,11,12,36,39,40,41
ES39	29.87	92.62	75.8	1.6	17	1,2,3,4,8,9,10,11,36,38,40,41
ES40	29.71	92.15	78.0	1.4	14	1,2,4,5,7,8,10,36,38,39,41,43
ES41	29.19	91.76	70.4	1.7	14	2,3,4,5,36,38,40
ES42	28.90	91.94	108.6	1.6	06	1,37,39
ES43	29.04	92.23	75.4	1.2	05	8,36,38,39
ES45	29.12	93.78	65.8	1.3	05	7,8,38
ES46	29.25	94.26	89.2	1.1	04	10,36