

APPENDIX TO

REFINING MICRO-SEISMIC CATALOGS AROUND SEYDİŞEHİR, TURKEY

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Appendix A. The information of 177 seismic events and the results of the analysis.

Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude Average (oN) FD	Longitude Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
3.06.2015	09:07:42	09:07:43	09:07:42	37.2763	31.9633	37.2648	31.8571	37.2706	31.9102	1.9	1.3	1.6	A	N	A	1.12512	3.64582	3.28223	0.5083	6.338	A	A	A	N	A	1.23052	3.04661	4.56581	0.10067	2.825	A	A	A	A	A	88.23
30.09.2015	03:52:18	03:52:17	03:52:17	37.3832	32.0752	37.4080	32.0856	37.3956	32.0804	2.4	2.2	2.3	N	N	N	0.90738	3.98056	2.34416	0.86654	8.13	N	N	N	N	N	1.34099	3.6	2.83854	0.54034	8.031	N	N	N	N	N	0.00
5.11.2015	09:57:11	09:57:12	09:57:11	37.2560	31.7965	37.2888	31.8906	37.2724	31.8436	2.3	1.6	2.0	N	A	A	2.7148	3.93438	12.4114	0.07773	3.047	A	A	A	A	A	1.66827	3.04379	6.39432	0.05752	3.518	A	A	A	A	A	100.00
11.11.2015	10:05:52	10:05:53	10:05:52	37.2713	31.9037	37.3146	31.9386	37.2930	31.9212	2.1	1.3	1.7	A	A	A	1.34659	3.83542	3.80405	0.49635	6.361	A	A	A	N	A	1.77799	3.26153	6.03569	0.13554	4.204	A	A	A	A	A	88.23
18.11.2015	10:12:03	10:12:04	10:12:03	37.2675	31.8890	37.3121	31.7776	37.2898	31.8333	2.0	1.4	1.7	A	A	A	0.75324	3.53238	3.45506	0.32006	4.663	A	A	A	A	A	2.02568	3.26748	6.21669	0.07194	2.708	A	A	A	A	A	100.00
2.05.2016	00:07:15	00:07:15	00:07:15	37.1993	31.8657	37.1933	31.8563	37.1963	31.8610	1.5	1.2	1.4	N	N	N	1.3984	2.97388	3.90556	0.82164	7.272	N	N	N	N	N	1.80669	2.50588	4.92677	0.52298	8.15	N	N	N	N	N	0.00
21.07.2016	13:23:20	13:23:21	13:23:20	37.1770	31.9870	37.1911	31.9538	37.1841	31.9704	2.1	1.7	1.9	N	N	N	3.76378	3.56955	8.96258	1.60072	7.372	N	N	N	A	N	2.00376	3.60056	4.64435	0.67017	11.098	N	N	N	N	N	88.23
25.09.2016	17:52:32	17:52:32	17:52:32	37.2252	31.9713	37.1990	31.9775	37.2121	31.9744	1.6	1.0	1.3	N	N	N	0.53013	2.96356	1.42715	0.85326	9.35	N	N	N	N	N	1.13385	2.55974	0.93923	1.18599	8.632	N	N	N	N	N	0.00
19.10.2016	13:15:48	13:15:49	13:15:48	37.3202	31.9910	37.2973	31.8420	37.3088	31.9165	2.1	1.3	1.7	A	A	A	2.1042	3.80013	8.72058	0.15434	4.596	A	A	A	A	A	1.31284	3.09505	5.83642	0.03708	2.709	A	A	A	A	A	100.00
19.10.2016	13:17:02	13:17:02	13:17:02	37.2825	31.9423	37.2885	31.8641	37.2855	31.9032	2.1	1.6	1.9	A	A	A	4.75693	3.83036	30.9523	0.02084	3.021	A	A	A	A	A	1.64956	3.22392	4.74512	0.03955	3.493	A	A	A	A	A	100.00

KOERI-RETMC: Bogazici University Kandilli Observatory and Earthquake Research Institute Regional Earthquake-Tsunami Monitoring Center; AFAD: Republic of Turkey Prime Ministry Disaster and Emergency Management Authority; FD: first determination; ST: source type; AR: amplitude ratio; C: complexity; STFT: Short Time Fourier Transform; LDF: Linear Discriminant Function; QDF: Quadratic Discriminant Function; CF-PS: corner frequency-power spectrum; fc: corner frequency; N: natural event; A: artificial event.

Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time-Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude-Average (oN) FD	Longitude-Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
21.10.2016	13:27:37	13:27:38	13:27:37	37.2747	31.7903	37.2556	31.9051	37.2652	31.8477	2.2	1.7	2.0	A	N	A	2.21906	3.98963	12.3923	0.14615	3.041	A	A	A	A	A	1.84986	3.45823	9.33878	0.03131	2.051	A	A	A	A	A	100.00
22.10.2016	09:41:02	09:41:03	09:41:02	37.2490	31.8660	37.2713	31.8983	37.2602	31.8822	2.1	1.4	1.8	A	N	A	4.83762	3.79531	19.1678	0.07098	3.412	A	A	A	A	A	1.5486	3.17518	9.77622	0.05248	2.472	A	A	A	A	A	100.00
26.10.2016	10:01:16	10:01:17	10:01:17	37.2887	31.8832	37.2875	31.9138	37.2881	31.8985	2.0	1.7	1.9	A	A	A	1.4457	3.74174	7.9877	0.11467	2.984	A	A	A	A	A	1.11844	3.16728	3.62875	0.08663	4.954	A	A	A	A	A	100.00
28.10.2016	09:30:00	09:30:01	09:30:00	37.2533	31.7287	37.2888	31.9485	37.2711	31.8386	2.0	1.5	1.8	N	N	A	1.64227	3.62018	9.50079	0.11859	3.656	A	A	A	A	A	2.26476	3.20933	8.03184	0.03937	2.956	A	A	A	A	A	100.00
30.10.2016	09:35:40	09:35:41	09:35:40	37.2575	31.7472	37.2856	31.8946	37.2716	31.8209	2.4	1.7	2.1	N	N	A	2.33088	3.67679	10.8898	0.29109	6.26	A	A	A	A	A	2.65725	3.25304	8.05503	0.06259	4.176	A	A	A	A	A	100.00
2.11.2016	08:03:25	08:03:28	08:03:26	37.2165	31.5958	37.2975	31.9008	37.2570	31.7483	2.4	1.5	2.0	N	N	A	3.99428	3.93174	23.0013	0.05146	3.37	A	A	A	A	A	2.87449	3.31392	13.3985	0.01727	2.162	A	A	A	A	A	100.00
3.11.2016	09:49:41	09:49:41	09:49:41	37.2817	31.8960	37.2928	31.8616	37.2873	31.8788	1.8	1.7	1.8	A	N	A	1.33516	3.59018	5.30936	0.31125	6.606	A	A	A	A	A	2.34693	3.1207	10.7103	0.04986	2.312	A	A	A	A	A	100.00
5.11.2016	09:29:48	09:29:48	09:29:48	37.2867	31.8710	37.2791	31.8831	37.2829	31.8771	2.0	1.7	1.9	A	N	A	2.39833	3.78169	9.7587	0.10773	3.144	A	A	A	A	A	2.98703	3.44125	18.0777	0.0217	2.241	A	A	A	A	A	100.00
5.11.2016	14:48:25	14:48:25	14:48:25	37.2838	31.8877	37.2760	31.8918	37.2799	31.8898	1.8	1.4	1.6	A	N	A	2.27353	3.78939	5.51692	0.30451	3.409	A	A	A	A	A	2.28572	3.0118	6.31506	0.09265	3.562	A	A	A	A	A	100.00
8.11.2016	09:45:37	09:45:38	09:45:37	37.2440	31.8750	37.2961	31.8950	37.2701	31.8850	1.6	1.3	1.5	A	A	A	0.72593	3.4276	1.42927	0.73718	6.464	N	A	N	N	A	1.87163	2.99296	4.12516	0.13125	9.111	A	A	A	A	N	57.11
9.11.2016	09:34:18	09:34:18	09:34:18	37.2615	31.9095	37.3081	31.9615	37.2848	31.9355	2.0	1.7	1.9	A	A	N	1.92868	3.47829	6.87501	0.79943	6.08	N	N	N	A	A	4.85281	3.08235	1.82952	0.39681	6.275	N	N	N	A	A	49.31
12.11.2016	09:35:13	09:35:12	09:35:13	37.3095	31.9390	37.2886	31.8753	37.2991	31.9072	1.9	1.8	1.9	A	N	A	1.7123	3.63207	10.2618	0.20657	6.071	A	A	A	A	A	2.82167	3.17569	15.7489	0.04559	3.968	A	A	A	A	A	100.00
13.11.2016	09:25:22	09:25:23	09:25:22	37.2422	31.8632	37.2933	31.8455	37.2678	31.8544	1.6	1.3	1.5	A	N	A	1.05339	3.43824	3.92907	0.21486	2.703	N	A	A	A	A	1.69992	2.94835	6.34117	0.05783	2.144	N	A	A	A	A	75.23
19.11.2016	09:33:14	09:33:16	09:33:15	37.2482	31.8607	37.3175	31.7750	37.2829	31.8179	1.7	1.3	1.5	A	N	A	1.2079	3.49492	5.58386	0.17147	3.673	N	A	A	A	A	1.01858	2.77551	2.96055	0.10185	6.349	N	A	A	A	A	75.23
19.11.2016	09:40:12	09:40:14	09:40:13	37.2770	31.8920	37.3085	31.7670	37.2928	31.8295	1.7	1.4	1.6	A	N	A	1.20804	3.49475	5.82374	0.17197	3.655	N	A	A	A	A	1.04471	2.83117	5.17228	0.04492	2.083	N	A	A	A	A	75.23
23.11.2016	09:53:01	09:53:01	09:53:01	37.3208	31.9700	37.2918	31.8756	37.3063	31.9228	2.1	1.6	1.9	A	N	A	0.87789	3.60257	6.8896	0.14748	6.402	A	A	A	A	A	2.42928	3.36106	11.1488	0.03946	2.236	A	A	A	A	A	100.00
24.11.2016	09:31:23	09:31:24	09:31:24	37.3527	31.9067	37.2930	31.8633	37.3229	31.8850	1.8	1.3	1.6	A	A	A	1.09416	3.40632	2.38588	0.35951	2.273	N	A	A	N	A	2.03019	2.92285	4.70959	0.10691	8.287	N	A	A	A	N	51.00
26.11.2016	09:29:44	09:29:46	09:29:45	37.2325	31.7032	37.2855	31.8598	37.2590	31.7815	2.1	1.5	1.8	N	N	A	1.00285	3.54579	5.39609	0.21386	6.174	A	A	A	A	A	3.54828	3.36413	12.3827	0.03792	2.081	A	A	A	A	A	100.00
6.12.2016	09:27:55	09:27:57	09:27:56	37.2765	31.7692	37.2956	31.7388	37.2861	31.7540	2.0	1.5	1.8	A	N	A	1.46927	3.52643	4.41561	0.20217	3.46	A	A	A	A	A	1.65097	2.96072	3.54379	0.12341	3.492	A	A	A	A	A	100.00
13.12.2016	09:32:45	09:32:47	09:32:46	37.2193	31.7363	37.2696	31.8751	37.2445	31.8057	2.0	1.3	1.7	N	N	A	1.22788	3.54439	5.68331	0.16772	3.699	A	A	A	A	A	2.94146	3.33072	8.09679	0.02823	2.081	A	A	A	A	A	100.00
25.03.2017	10:35:57	10:35:58	10:35:57	37.2612	31.8998	37.2831	31.8508	37.2722	31.8753	1.8	1.5	1.7	A	N	A	2.865	3.81021	16.7326	0.09332	3.005	A	A	A	A	A	4.1839	3.2152	18.7127	0.02427	3.523	A	A	A	A	A	100.00
29.03.2017	09:07:59	09:08:00	09:07:59	37.2873	31.9230	37.3581	31.9321	37.3227	31.9276	1.7	1.4	1.6	A	A	A	1.82762	3.52274	11.1996	0.17869	5.179	N	A	A	A	A	1.07151	2.9716	5.49925	0.08309	3.399	A	A	A	A	A	87.61
4.04.2017	09:24:34	09:24:35	09:24:34	37.3162	31.8985	37.2863	31.8581	37.3013	31.8783	1.7	1.2	1.5	A	A	A	2.09245	3.47594	9.99394	0.15616	3.145	N	A	A	A	A	2.1502	2.92082	9.85894	0.04445	2.267	N	A	A	A	A	75.23
11.04.2017	09:19:49	09:19:50	09:19:50	37.2737	31.8768	37.2885	31.8630	37.2811	31.8699	1.7	1.4	1.6	A	A	A	1.3912	3.42604	5.14431	0.13321	4.374	N	A	A	A	A	0.99145	2.85511	3.11871	0.06738	3.944	N	A	A	A	A	75.23
15.04.2017	09:19:40	09:19:39	09:19:39	37.2705	31.9037	37.2808	31.9306	37.2757	31.9172	1.8	1.7	1.8	A	N	A	1.97247	3.60445	9.47243	0.3624	6.317	A	A	A	A	A	1.11983	2.99692	3.51163	0.18671	4.167	A	A	N	A	A	93.50
22.04.2017	09:36:46	09:36:46	09:36:46	37.2865	31.9020	37.3100	31.9088	37.2983	31.9054	1.9	1.6	1.8	A	N	A	1.84389	3.61192	10.7935	0.08647	3.442	A	A	A	A	A	4.58541	3.20253	20.1882	0.0167	2.728	N	A	A	A	A	87.61
27.04.2017	09:30:05	09:30:05	09:30:05	37.2728	31.8805	37.2935	31.8793	37.2832	31.8799	2.0	1.5	1.8	A	A	A	3.65114	3.93531	15.2025	0.10478	3.437	A	A	A	A	A	2.30003	3.37083	17.613	0.02293	2.063	A	A	A	A	A	100.00
29.04.2017	09:30:23	09:30:24	09:30:23	37.2675	31.8818	37.2943	31.8761	37.2809	31.8790	1.7	1.4	1.6	A	A	A	1.95593	3.66885	5.92176	0.24252	5.583	A	A	A	A	A	2.03905	3.06243	6.14567	0.08045	2.746	A	A	A	A	A	100.00
16.05.2017	09:32:35	09:32:35	09:32:35	37.2998	31.8678	37.2466	31.8246	37.2732	31.8462	1.8	1.5	1.7	A	N	A	1.05764	3.56899	8.06098	0.15547	3.962	A	A	A	A	A	1.52959	3.12397	6.27666	0.05128	2.086	A	A	A	A	A	100.00

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Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time-Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude-Average (oN) FD	Longitude-Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
18.05.2017	09:29:03	09:29:05	09:29:04	37.2670	31.8592	37.2873	31.8351	37.2772	31.8472	1.9	1.3	1.6	A	A	A	1.14455	3.69521	3.93851	0.46761	6.13	A	A	A	A	A	1.39393	3.06766	5.57275	0.09733	2.046	A	A	A	A	A	100.00
25.05.2017	09:31:00	09:31:00	09:31:00	37.2865	31.9098	37.2808	31.8628	37.2837	31.8863	2.0	1.6	1.8	A	A	A	1.39609	3.8757	11.3404	0.08519	3.419	A	A	A	A	A	2.39984	3.50047	11.7097	0.03418	2.059	A	A	A	A	A	100.00
3.06.2017	10:22:15	10:22:15	10:22:15	37.2907	31.9305	37.2813	31.8878	37.2860	31.9092	2.2	2.0	2.1	A	N	A	2.63165	3.87421	24.3251	0.04983	3.422	A	A	A	A	A	2.59823	3.54424	16.9637	0.01811	2.068	A	A	A	A	A	100.00
8.06.2017	09:56:15	09:56:16	09:56:15	37.2595	31.8222	37.2818	31.8990	37.2707	31.8606	1.7	1.4	1.6	A	A	A	2.26867	3.83596	9.46319	0.17723	3.431	A	A	A	A	A	2.41076	3.30015	11.4904	0.04437	2.068	A	A	A	A	A	100.00
11.06.2017	09:47:03	09:47:03	09:47:03	37.2277	31.8165	37.2835	31.8978	37.2556	31.8572	1.9	1.8	1.9	A	N	A	2.97484	3.86839	17.7987	0.19668	3.403	A	A	A	A	A	2.09651	3.05372	8.66132	0.09736	4.172	A	A	A	A	A	100.00
21.10.2017	09:41:15	09:41:16	09:41:15	37.2717	31.9037	37.2946	31.8845	37.2832	31.8941	1.9	1.5	1.7	A	N	A	2.23104	3.919	9.50509	0.10469	2.957	A	A	A	A	A	1.31089	3.30209	5.69639	0.04643	2.938	A	A	A	A	A	100.00
23.10.2017	09:34:04	09:34:04	09:34:04	37.2827	31.9042	37.2445	31.8986	37.2636	31.9014	2.0	2.0	2.0	A	N	A	3.93814	3.9776	16.8997	0.04226	3.363	A	A	A	A	A	1.91678	3.43862	8.72158	0.03378	3.556	A	A	A	A	A	100.00
26.10.2017	12:47:39	12:47:39	12:47:39	37.2800	31.9093	37.2865	31.9186	37.2833	31.9140	2.1	1.7	1.9	A	N	A	1.43026	3.77575	9.96907	0.11089	4.554	A	A	A	A	A	2.31686	3.5584	11.4393	0.04198	2.077	A	A	A	A	A	100.00
1.11.2017	09:38:29	09:38:30	09:38:29	37.2532	31.8740	37.3085	31.8928	37.2809	31.8834	1.7	1.5	1.6	A	A	A	2.83751	3.85681	14.5629	0.08688	3.517	A	A	A	A	A	1.66753	3.18829	7.63897	0.03825	3.984	A	A	A	A	A	100.00
6.11.2017	13:27:53	13:27:53	13:27:53	37.2980	31.9265	37.2853	31.8973	37.2917	31.9119	2.1	1.7	1.9	A	N	A	2.82123	3.90507	10.1379	0.0645	3.59	A	A	A	A	A	1.75843	3.43736	9.47822	0.03958	3.486	A	A	A	A	A	100.00
9.11.2017	09:40:16	09:40:17	09:40:16	37.2593	31.8397	37.3065	31.8965	37.2829	31.8681	2.1	1.6	1.9	N	N	A	2.33428	3.91324	9.5187	0.13605	3.094	A	A	A	A	A	1.08053	3.17378	4.35975	0.09969	3.964	A	A	A	A	A	100.00
23.11.2017	09:37:19	09:37:20	09:37:19	37.2543	31.8630	37.2935	31.8940	37.2739	31.8785	1.7	1.3	1.5	A	A	A	2.2886	3.6127	9.85603	0.14455	6.042	A	A	A	A	A	1.4038	2.94451	5.3065	0.06034	6.318	A	A	A	A	A	100.00
9.12.2017	09:25:44	09:25:45	09:25:45	37.2488	31.8683	37.2720	31.9195	37.2604	31.8939	2.0	1.7	1.9	A	N	A	3.66938	3.83784	18.8447	0.02932	3.143	A	A	A	A	A	1.95205	3.22792	7.03822	0.03288	3.533	A	A	A	A	A	100.00
13.12.2017	11:49:40	14:43:03	13:16:21	37.2577	31.8953	37.2156	31.4655	37.2367	31.6804	2.1	1.5	1.8	A	N	A	1.59801	3.65631	8.40344	0.04606	3.629	A	A	A	A	A	2.03837	2.97696	2.59662	0.16521	6.356	N	A	N	A	A	81.12
18.12.2017	09:22:55	09:22:58	09:22:56	37.3172	31.8838	37.4211	31.9428	37.3692	31.9133	1.7	1.1	1.4	A	N	A	3.39476	3.50582	22.0118	0.04197	3.182	N	A	A	A	A	1.88431	3.00102	6.37016	0.04573	3.538	A	A	A	A	A	87.61
3.01.2018	09:24:24	09:24:26	09:24:25	37.3062	31.6443	37.2768	31.8650	37.2915	31.7547	2.0	1.5	1.8	N	A	A	2.06464	3.89661	14.3865	0.07004	3.095	A	A	A	A	A	3.19986	3.51079	13.2013	0.02835	2.683	A	A	A	A	A	100.00
12.01.2018	09:29:17	09:29:19	09:29:18	37.2537	31.7842	37.3283	31.8295	37.2910	31.8069	1.9	1.7	1.8	N	N	A	3.33116	3.88621	14.0208	0.03967	3.158	A	A	A	A	A	1.49707	3.32198	5.70419	0.03707	3.506	A	A	A	A	A	100.00
17.01.2018	11:13:35	11:13:36	11:13:35	37.2952	31.9410	37.2893	31.8860	37.2923	31.9135	1.8	1.8	1.8	A	N	A	2.13651	3.98737	13.6204	0.06396	3.097	A	A	A	A	A	3.42884	3.62914	10.6777	0.02099	2.286	A	A	A	A	A	100.00
30.01.2018	12:57:41	12:57:43	12:57:42	37.2845	31.9360	37.3010	31.9071	37.2928	31.9216	1.9	1.6	1.8	A	N	A	2.99252	3.93687	8.76723	0.10911	2.769	A	A	A	A	A	2.43746	3.35643	7.55238	0.02653	2.811	A	A	A	A	A	100.00
2.02.2018	09:46:22	09:46:23	09:46:22	37.2532	31.7665	37.2881	31.9400	37.2707	31.8533	2.1	1.7	1.9	N	A	A	3.20652	3.82697	12.7733	0.02749	2.886	A	A	A	A	A	2.65249	3.18368	7.85911	0.01209	2.828	A	A	A	A	A	100.00
4.02.2018	09:23:12	09:23:14	09:23:13	37.2462	31.8702	37.3043	31.8925	37.2753	31.8814	1.7	1.6	1.7	A	N	A	0.86954	3.67018	6.60584	0.15682	3.664	A	A	A	A	A	2.47594	3.36907	13.7057	0.03085	2.724	A	A	A	A	A	100.00
6.02.2018	09:23:44	09:23:44	09:23:44	37.2613	31.8628	37.2556	31.8336	37.2585	31.8482	1.9	1.8	1.9	A	N	A	1.8986	3.94208	13.1814	0.04503	3	A	A	A	A	A	4.83661	3.70975	21.1141	0.01334	2.783	A	A	A	A	A	100.00
18.02.2018	09:21:51	09:21:52	09:21:52	37.2238	31.8397	37.2830	31.8653	37.2534	31.8525	2.1	1.5	1.8	A	N	A	1.3425	3.80089	2.86101	0.26376	3.607	A	A	A	N	A	1.71365	3.15292	5.60029	0.06258	2.321	A	A	A	A	A	88.23
20.02.2018	09:23:59	09:24:00	09:23:59	37.2552	31.8202	37.2940	31.8903	37.2746	31.8553	1.8	1.5	1.7	A	N	A	1.06207	3.62246	5.02	0.14765	2.857	A	A	A	A	A	2.45634	3.23732	11.9169	0.0165	2.704	A	A	A	A	A	100.00
23.02.2018	09:24:07	09:24:07	09:24:07	37.3213	31.9827	37.3115	32.0051	37.3164	31.9939	1.7	1.5	1.6	N	N	A	1.92759	3.57293	7.55301	0.08686	3.396	A	A	A	A	A	1.82484	3.01434	6.86343	0.07117	2.457	A	A	A	A	A	100.00
1.03.2018	09:20:32	09:20:35	09:20:33	37.2287	31.6893	37.2905	31.8670	37.2596	31.7782	1.8	1.8	1.8	N	A	A	1.41726	3.55259	10.4506	0.06901	2.834	A	A	A	A	A	3.21388	3.21699	11.3704	0.01201	2.715	A	A	A	A	A	100.00
13.03.2018	09:31:02	09:31:05	09:31:03	37.2327	31.7658	37.2615	31.7870	37.2471	31.7764	2.0	1.6	1.8	N	A	A	3.27461	3.95401	16.6672	0.06365	2.77	A	A	A	A	A	2.40475	3.37038	7.7444	0.02186	2.809	A	A	A	A	A	100.00
17.03.2018	09:38:18	09:38:19	09:38:18	37.2840	31.8117	37.2941	31.8450	37.2891	31.8284	1.9	1.4	1.7	A	N	A	1.48614	3.62706	7.22017	0.10546	2.787	A	A	A	A	A	1.6176	3.14927	6.98499	0.02659	2.701	A	A	A	A	A	100.00
31.03.2018	09:35:25	09:35:26	09:35:25	37.2553	31.8675	37.2930	31.8696	37.2742	31.8686	2.1	2.1	2.1	A	N	A	2.1866	4.03793	7.97875	0.09565	3.114	A	A	A	A	A	2.22358	3.61183	7.04001	0.0222	2.656	N	A	A	A	A	87.61

KOERI-RETMC: Bogazici University Kandilli Observatory and Earthquake Research Institute Regional Earthquake-Tsunami Monitoring Center; AFAD: Republic of Turkey Prime Ministry Disaster and Emergency Management Authority; FD: first determination; ST: source type; AR: amplitude ratio; C: complexity; STFT: Short Time Fourier Transform; LDF: Linear Discriminant Function; QDF: Quadratic Discriminant Function; CF-PS: corner frequency-power spectrum; fc: corner frequency; N: natural event; A: artificial event.

Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude Average (oN) FD	Longitude Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
4.04.2018	09:23:42	09:23:44	09:23:43	37.2532	31.8813	37.2865	31.8775	37.2699	31.8794	2.1	2.0	2.1	A	N	A	1.75339	4.02324	4.80788	0.12779	6.372	A	A	A	A	A	1.11937	3.3801	4.36734	0.0636	2.557	N	A	A	A	A	87.61
11.04.2018	09:24:58	09:24:59	09:24:59	37.2605	31.8693	37.2906	31.8798	37.2756	31.8746	2.2	1.8	2.0	A	N	A	3.0327	3.88742	27.5356	0.06811	3.399	A	A	A	A	A	2.42109	3.47864	8.02528	0.01622	2.722	A	A	A	A	A	100.00
14.04.2018	09:36:53	09:36:54	09:36:54	37.2740	31.8475	37.2791	31.8941	37.2766	31.8708	2.1	1.8	2.0	A	N	A	1.63466	3.90933	6.49714	0.14545	7.483	A	A	A	A	N	1.61481	3.23878	5.55893	0.05887	2.41	A	A	A	A	A	88.30
18.04.2018	09:57:08	09:57:10	09:57:09	37.2633	31.7963	37.2796	31.8560	37.2715	31.8262	1.7	1.3	1.5	A	N	A	3.07953	3.42868	13.3011	0.06126	2.844	N	A	A	A	A	1.83791	2.83122	7.51059	0.02744	2.851	N	A	A	A	A	75.23
20.04.2018	09:25:10	09:25:13	09:25:11	37.2657	31.8397	37.2895	31.8411	37.2776	31.8404	1.8	1.3	1.6	A	N	A	2.33366	3.66459	11.7467	0.10205	3.707	A	A	A	A	A	1.65045	3.05243	5.04269	0.05113	3.485	A	A	A	A	A	100.00
24.04.2018	09:23:25	09:23:26	09:23:26	37.2692	31.7883	37.3066	31.9081	37.2879	31.8482	2.1	1.6	1.9	A	N	A	1.60608	3.84566	7.52677	0.15154	5.01	A	A	A	A	A	0.9506	3.07574	3.86213	0.07823	2.459	A	A	A	A	A	100.00
28.04.2018	09:26:33	09:26:33	09:26:33	37.2742	31.9550	37.2746	31.9061	37.2744	31.9306	1.9	1.9	1.9	A	N	A	1.27227	3.76544	5.07099	0.17232	3.343	A	A	A	A	A	1.0623	3.12735	4.84725	0.08019	2.065	A	A	A	A	A	100.00
13.05.2018	09:24:54	09:24:54	09:24:54	37.2602	31.8732	37.2570	31.8855	37.2586	31.8794	1.8	1.6	1.7	A	N	A	1.77008	3.75697	7.21831	0.17863	3.377	A	A	A	A	A	1.74332	3.0763	6.9184	0.07184	5.895	A	A	A	A	A	100.00
18.05.2018	09:57:45	09:57:45	09:57:45	37.3318	31.9288	37.2685	31.9200	37.3002	31.9244	1.9	1.6	1.8	A	N	A	2.31266	3.66376	5.58437	0.23511	5.221	A	A	A	A	A	1.44162	3.04276	5.74781	0.06954	2.83	A	A	A	A	A	100.00
19.05.2018	09:58:31	09:58:30	09:58:30	37.2895	31.9365	37.2275	31.7755	37.2585	31.8560	2.1	1.9	2.0	A	N	A	2.72849	4.01063	13.8711	0.08207	2.805	A	A	A	A	A	1.99093	3.42812	11.1908	0.03259	2.799	A	A	A	A	A	100.00
20.05.2018	09:58:59	09:58:59	09:58:59	37.2678	31.8623	37.2231	31.8426	37.2455	31.8525	2.0	1.5	1.8	A	N	A	1.30679	3.73962	2.92585	0.33096	4.478	A	A	A	A	A	1.02761	3.0707	3.36206	0.17742	5.898	A	A	N	N	A	80.12
6.06.2018	13:28:52	13:28:54	13:28:53	37.2998	31.7453	37.2775	31.8475	37.2887	31.7964	2.4	1.7	2.1	N	N	A	3.13759	4.0354	16.6874	0.06435	2.987	A	A	A	A	A	3.62403	3.64375	19.7504	0.01964	2.714	A	A	A	A	A	100.00
23.06.2018	09:55:40	09:55:42	09:55:41	37.2435	31.7653	37.2880	31.8291	37.2658	31.7972	2.1	1.7	1.9	N	N	A	1.13157	3.97907	3.79779	0.45201	2.709	A	A	A	A	A	2.1992	3.24152	9.0395	0.03657	3.29	A	A	A	A	A	100.00
20.09.2018	00:23:14	00:23:13	00:23:14	37.2792	31.9197	37.2556	31.8888	37.2674	31.9043	2.0	1.7	1.9	N	N	N	1.23536	4.04836	3.32231	1.02593	9.817	N	N	N	N	N	1.36026	3.47812	2.31665	0.81662	7.777	N	N	N	N	N	0.00
5.10.2018	08:33:48	08:33:50	08:33:49	37.2392	31.7843	37.2776	31.8900	37.2584	31.8372	1.7	1.5	1.6	A	N	A	1.48275	3.8222	4.37154	0.36783	5.993	A	A	A	A	A	1.4005	3.17606	5.43043	0.0881	3.571	A	A	A	A	A	100.00
18.10.2018	03:27:33	03:27:34	03:27:33	37.1597	31.9432	37.1501	31.9370	37.1549	31.9401	1.7	1.3	1.5	N	N	N	1.34314	3.11282	1.90373	1.64357	7.51	N	N	N	N	N	1.09785	2.55494	1.87516	0.79439	10.387	N	N	N	N	N	0.00
28.10.2018	12:04:27	12:04:28	12:04:28	37.2598	31.8673	37.3116	31.9125	37.2857	31.8899	1.8	1.2	1.5	A	N	A	1.69655	3.70718	7.65269	0.24253	4.565	A	A	A	A	A	1.3088	3.02462	4.62398	0.08266	3.549	A	A	A	A	A	100.00
31.10.2018	09:42:32	09:42:32	09:42:32	37.2485	31.8380	37.2400	31.8513	37.2443	31.8447	2.2	1.7	2.0	N	N	A	2.90703	3.94437	14.8914	0.08175	5.263	A	A	A	A	A	1.46556	3.26037	4.33386	0.04179	2.056	A	A	A	A	A	100.00
1.11.2018	09:41:49	09:41:47	09:41:48	37.2772	31.8805	37.1831	31.6651	37.2302	31.7728	1.8	1.5	1.7	A	N	A	1.403	3.50742	3.82968	0.16294	9.544	N	A	A	A	N	1.39079	2.93053	4.25222	0.0912	3.986	A	A	A	A	A	75.92
3.11.2018	09:37:05	09:37:05	09:37:05	37.2683	31.8310	37.2585	31.8675	37.2634	31.8493	2.1	1.8	2.0	A	N	A	1.90327	3.8287	8.66975	0.11169	6.399	A	A	A	A	A	1.19103	3.27308	4.36471	0.05004	2.368	A	A	A	A	A	100.00
4.11.2018	09:26:43	09:26:44	09:26:43	37.2650	31.8205	37.2540	31.8111	37.2595	31.8158	2.1	1.3	1.7	A	N	A	1.96169	3.95844	4.71334	0.47663	7.231	A	A	A	A	N	1.61731	3.15472	5.12929	0.13551	3.949	A	A	A	A	A	88.30
7.11.2018	09:37:44	09:37:44	09:37:44	37.2637	31.8002	37.2845	31.8871	37.2741	31.8437	1.8	1.3	1.6	A	A	A	1.10669	3.62013	2.47195	0.49842	7.556	A	A	A	N	N	1.67581	3.11876	4.01673	0.12217	8.344	A	A	A	A	N	64.07
10.11.2018	09:41:04	09:41:05	09:41:04	37.2280	31.7272	37.3545	31.9208	37.2913	31.8240	2.1	1.7	1.9	N	N	A	1.97899	3.81555	4.27816	0.18168	2.834	A	A	A	A	A	2.72268	3.22546	4.99698	0.04882	2.824	A	A	A	A	A	100.00
11.11.2018	09:29:05	09:29:06	09:29:05	37.2873	31.9092	37.3628	31.9208	37.3251	31.9150	1.5	1.5	1.5	A	N	A	0.83602	3.63839	1.84138	1.03215	7.903	A	N	N	N	N	3.24882	3.29264	9.40245	0.11429	6.317	A	A	A	A	A	63.88
14.11.2018	09:30:39	09:30:43	09:30:41	37.2612	31.6278	37.2941	31.8898	37.2777	31.7588	1.6	1.5	1.6	N	N	A	2.31833	3.66649	11.2412	0.13633	3.659	A	A	A	A	A	1.97859	3.07881	9.86971	0.04675	2.945	A	A	A	A	A	100.00
17.11.2018	09:32:23	09:32:22	09:32:22	37.2475	31.7443	37.1640	31.7688	37.2058	31.7566	1.7	1.4	1.6	N	N	A	1.18448	3.62488	1.26559	1.1401	9.155	A	N	N	N	N	1.92094	3.09468	2.95392	0.26793	8.921	A	A	N	A	N	44.92
20.11.2018	09:34:22	09:34:24	09:34:23	37.2387	31.7567	37.3025	31.8891	37.2706	31.8229	2.1	1.9	2.0	N	N	A	1.01351	3.83893	3.62893	0.3559	6.005	A	A	A	A	A	1.63172	3.29153	6.57769	0.09773	8.049	A	A	A	A	N	87.54
22.11.2018	12:06:23	12:06:22	12:06:22	37.2985	31.9415	37.2866	31.9218	37.2926	31.9317	1.7	1.5	1.6	A	N	A	0.52399	3.76747	1.08254	1.01901	6.796	A	N	N	N	A	0.95578	3.23298	2.28945	0.18842	2.068	A	A	N	A	A	69.07
26.11.2018	09:29:07	09:29:07	09:29:07	37.3463	31.9812	37.2300	31.7708	37.2882	31.8760	1.8	1.7	1.8	N	N	A	1.03294	3.54558	1.49775	0.61591	7.807	A	A	N	N	N	2.51428	3.19516	7.05368	0.06366	2.716	A	A	A	A	A	70.26

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Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time-Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude-Average (oN) FD	Longitude-Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
3.12.2018	09:32:49	09:32:49	09:32:49	37.2852	31.8478	37.2995	31.8945	37.2924	31.8712	1.7	1.3	1.5	A	N	A	1.30933	3.72458	2.57801	1.00306	5.587	A	N	N	A	A	1.4014	3.04002	3.88582	0.16008	2.27	A	A	N	A	A	80.85
10.12.2018	09:34:29	09:34:27	09:34:28	37.3095	31.9228	37.1518	31.7608	37.2307	31.8418	2.0	1.6	1.8	A	N	A	0.95802	3.94827	2.61367	0.41201	5.149	A	A	A	A	A	1.81614	3.39405	7.34144	0.06338	6.307	A	A	A	A	A	100.00
16.12.2018	09:30:36	09:30:36	09:30:36	37.2627	31.7718	37.2481	31.8573	37.2554	31.8146	2.0	1.7	1.9	N	N	A	1.74463	3.78054	6.90299	0.18094	6.675	A	A	A	A	A	2.43117	3.25255	6.0867	0.03752	2.235	A	A	A	A	A	100.00
18.12.2018	09:30:33	09:30:33	09:30:33	37.2788	31.9307	37.2825	31.8323	37.2807	31.8815	2.3	1.6	2.0	A	N	A	0.95167	3.93676	1.78874	0.91893	5.473	A	N	N	N	A	2.33397	3.48532	6.50985	0.10798	8.32	A	A	A	A	N	63.11
25.12.2018	09:29:05	09:29:06	09:29:05	37.2787	31.7753	37.3048	31.8856	37.2918	31.8305	2.2	1.5	1.9	A	N	A	1.02981	3.66223	1.7239	0.19395	3.514	A	A	A	A	A	3.20956	3.22734	11.6533	0.03091	2.629	A	A	A	A	A	100.00
29.12.2018	09:33:55	09:33:56	09:33:55	37.2612	31.8390	37.3233	31.9030	37.2923	31.8710	1.7	1.4	1.6	A	N	A	0.68563	3.53593	2.3032	0.76581	6.009	A	N	N	N	A	3.03156	3.26442	6.74715	0.12797	1.588	A	A	A	A	A	75.57
3.03.2019	09:26:01	09:26:01	09:26:01	37.2930	31.8972	37.2880	31.8971	37.2905	31.8972	2.1	1.8	2.0	A	N	A	1.49867	3.90359	3.89466	0.29179	7.843	A	A	A	A	N	3.88225	3.53088	9.41864	0.03912	2.72	A	A	A	A	A	88.30
9.03.2019	09:29:09	09:29:09	09:29:09	37.2640	31.8585	37.2826	31.8873	37.2733	31.8729	2.1	1.9	2.0	A	N	A	1.27317	3.74376	6.24863	0.14157	2.755	A	A	A	A	A	1.62627	3.21835	4.51601	0.05983	2.731	A	A	A	A	A	100.00
13.03.2019	09:47:29	09:47:29	09:47:29	37.2663	31.8608	37.2315	31.9038	37.2489	31.8823	2.1	1.9	2.0	A	N	A	1.74562	3.76702	8.42321	0.12633	3.178	A	A	A	A	A	3.43625	3.62832	13.0531	0.02114	2.731	A	A	A	A	A	100.00
14.03.2019	09:27:18	09:27:19	09:27:18	37.2808	31.9143	37.2931	31.8628	37.2870	31.8886	1.8	1.3	1.6	A	N	A	0.92095	3.75209	1.39438	0.78014	6.586	A	N	N	N	A	1.49819	3.14455	4.78695	0.13566	8.305	A	A	A	A	N	63.11
30.03.2019	09:29:10	09:29:11	09:29:11	37.2730	31.8397	37.3075	31.8855	37.2903	31.8626	2.2	1.7	2.0	N	N	A	1.72628	3.82718	10.7163	0.12586	3.317	A	A	A	A	A	3.52412	3.61407	14.8936	0.02203	2.313	A	A	A	A	A	100.00
8.04.2019	09:24:35	09:24:36	09:24:36	37.2697	31.9235	37.2790	31.8500	37.2744	31.8868	2.3	2.0	2.2	A	N	A	2.52895	4.04196	13.161	0.06057	2.695	A	A	A	A	A	3.54535	3.65014	23.3033	0.01774	2.089	A	A	A	A	A	100.00
10.04.2019	09:28:09	09:28:11	09:28:10	37.2818	31.9080	37.3028	31.8355	37.2923	31.8718	1.8	1.8	1.8	A	N	A	0.81623	3.90113	1.97051	0.40915	3.152	A	A	A	A	A	0.73089	3.16952	2.6154	0.13581	5.423	A	A	A	A	A	100.00
13.04.2019	09:30:18	09:30:18	09:30:18	37.2613	31.8868	37.2900	31.9110	37.2757	31.8989	2.1	1.8	2.0	A	N	A	2.34726	3.96457	6.12009	0.22797	8.648	A	A	A	A	N	3.66511	3.53281	12.3417	0.02842	3.533	A	A	A	A	A	88.30
18.04.2019	09:32:49	09:32:49	09:32:49	37.3065	31.9513	37.3075	31.8761	37.3070	31.9137	1.8	1.4	1.6	A	N	A	2.04025	3.7255	4.36943	0.11413	6.651	A	A	A	A	A	3.02528	3.35424	12.2987	0.02339	2.074	A	A	A	A	A	100.00
19.04.2019	09:34:19	09:34:19	09:34:19	37.2887	31.8693	37.2708	31.8705	37.2798	31.8699	1.8	1.4	1.6	A	N	A	1.97524	3.58858	5.323	0.14842	5.378	A	A	A	A	A	2.85201	3.14912	13.5427	0.02192	2.289	A	A	A	A	A	100.00
20.04.2019	09:32:59	09:32:59	09:32:59	37.2193	31.8687	37.2896	31.9036	37.2545	31.8862	2.1	2.0	2.1	N	N	A	1.77378	4.13887	9.27494	0.18459	3.211	N	A	A	A	A	3.67982	3.78869	16.091	0.02951	2.294	A	A	A	A	A	87.61
25.04.2019	09:27:17	09:27:20	09:27:19	37.2680	31.8897	37.3413	31.8586	37.3047	31.8742	2.1	1.6	1.9	N	N	A	1.86624	4.06741	5.50426	0.37397	5.168	A	A	A	A	A	2.79391	3.51213	8.88194	0.06232	2.73	A	A	A	A	A	100.00
4.05.2019	09:32:22	09:32:23	09:32:22	37.2840	31.8732	37.3233	31.8698	37.3037	31.8715	1.9	1.6	1.8	A	N	A	1.14322	3.94668	1.96867	0.666	7.261	A	A	N	N	N	3.09041	3.54792	11.3185	0.05668	2.259	A	A	A	A	A	70.26
6.05.2019	10:05:15	10:05:16	10:05:15	37.2703	31.8690	37.3091	31.8666	37.2897	31.8678	1.9	1.4	1.7	N	N	A	1.22514	3.76592	5.25729	0.35831	4.906	A	A	A	A	A	1.96819	3.26036	7.36148	0.10148	5.87	A	A	A	A	A	100.00
10.05.2019	09:33:55	09:33:56	09:33:55	37.2685	31.9013	37.2958	31.8210	37.2822	31.8612	2.2	1.9	2.1	A	N	A	1.20676	3.94251	7.70366	0.11754	4.907	A	A	A	A	A	2.334	3.61562	5.48348	0.03424	3.523	N	A	A	A	A	87.61
14.05.2019	10:25:26	10:25:26	10:25:26	37.2608	31.8820	37.2840	31.8720	37.2724	31.8770	2.1	1.7	1.9	N	N	A	2.87903	4.01532	12.7292	0.17777	5.473	A	A	A	A	A	2.43678	3.54227	9.97139	0.03849	2.745	A	A	A	A	A	100.00
18.05.2019	10:15:19	10:15:20	10:15:20	37.2425	31.8830	37.3105	31.9090	37.2765	31.8960	2.1	2.0	2.1	A	N	A	2.33132	4.11594	11.027	0.07413	3.152	A	A	A	A	A	2.63876	3.6111	16.2218	0.0142	2.062	A	A	A	A	A	100.00
23.05.2019	10:12:29	10:12:29	10:12:29	37.2885	31.9108	37.2550	31.8516	37.2718	31.8812	2.1	1.7	1.9	A	N	A	0.92842	3.82731	4.09318	0.24842	7.277	A	A	A	A	N	1.26518	3.28005	4.50816	0.07483	2.299	A	A	A	A	A	88.30
28.05.2019	12:11:43	12:11:44	12:11:43	37.2653	31.9350	37.3050	31.8941	37.2852	31.9146	1.8	1.5	1.7	A	A	A	1.84726	3.80597	6.65858	0.29985	8.434	A	A	A	A	N	2.41523	3.34425	10.9801	0.03782	2.104	A	A	A	A	A	88.30
25.06.2019	09:34:17	09:34:17	09:34:17	37.2488	31.7832	37.2448	31.8186	37.2468	31.8009	2.0	1.6	1.8	N	N	A	1.49063	3.6749	10.557	0.11049	3.328	A	A	A	A	A	2.62718	3.3771	12.0051	0.02145	2.294	A	A	A	A	A	100.00
9.07.2019	09:25:51	09:25:51	09:25:51	37.2828	31.8947	37.2576	31.7501	37.2702	31.8224	1.8	1.3	1.6	A	N	A	1.57894	3.58186	8.19523	0.15662	3.356	A	A	A	A	A	3.18329	3.20356	14.3862	0.02026	2.738	A	A	A	A	A	100.00
23.07.2019	10:02:18	10:02:18	10:02:18	37.1952	31.6455	37.2651	31.8765	37.2302	31.7610	1.8	1.4	1.6	N	N	A	2.1258	3.732	3.22617	0.17663	3.495	A	A	A	A	A	1.75788	3.0805	4.60628	0.04845	3.548	A	A	A	A	A	100.00
26.07.2019	09:38:43	09:38:43	09:38:43	37.2923	31.8927	37.2821	31.8883	37.2872	31.8905	2.0	1.8	1.9	A	N	A	1.69535	3.75701	11.88	0.13098	3.386	A	A	A	A	A	2.14204	3.2098	9.76092	0.03637	3.556	A	A	A	A	A	100.00

KOERI-RETMC: Bogazici University Kandilli Observatory and Earthquake Research Institute Regional Earthquake-Tsunami Monitoring Center; AFAD: Republic of Turkey Prime Ministry Disaster and Emergency Management Authority; FD: first determination; ST: source type; AR: amplitude ratio; C: complexity; STFT: Short Time Fourier Transform; LDF: Linear Discriminant Function; QDF: Quadratic Discriminant Function; CF-PS: corner frequency-power spectrum; fc: corner frequency; N: natural event; A: artificial event.

Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude Average (oN) FD	Longitude Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
3.08.2019	09:27:39	09:27:39	09:27:39	37.2635	31.7867	37.2803	31.8873	37.2719	31.8370	2.2	1.8	2.0	N	N	A	1.60984	3.82964	8.04978	0.12014	4.537	A	A	A	A	A	2.02206	3.41887	8.76595	0.04488	3.506	A	A	A	A	A	100.00
24.08.2019	09:37:08	09:37:11	09:37:09	37.2118	31.6657	37.2986	31.8788	37.2552	31.7723	1.8	1.6	1.7	N	N	A	1.36942	3.77068	8.24319	0.10322	7.22	A	A	A	A	N	1.48502	3.29146	8.18921	0.03038	2.073	A	A	A	A	A	88.30
2.09.2019	09:28:59	09:28:59	09:28:59	37.2795	31.8765	37.2128	31.8443	37.2462	31.8604	1.9	1.6	1.8	A	A	A	1.87961	3.87136	7.718	0.12247	7.261	A	A	A	A	N	1.9952	3.19631	7.78213	0.04867	2.051	A	A	A	A	A	88.30
12.09.2019	09:45:28	09:45:28	09:45:28	37.2590	31.7993	37.2655	31.8628	37.2623	31.8311	2.0	1.5	1.8	A	N	A	1.18275	3.73117	5.29418	0.17154	5.961	A	A	A	A	A	1.87946	3.36749	13.0821	0.02579	2.051	A	A	A	A	A	100.00
25.09.2019	09:48:00	09:47:57	09:47:58	37.2625	31.8162	37.0795	31.6695	37.1710	31.7429	2.0	1.5	1.8	A	N	A	0.62667	3.60043	2.85313	0.25338	8.667	A	A	A	A	N	1.51811	3.18641	3.92321	0.0508	2.101	A	A	A	A	A	88.30
18.10.2019	09:26:28	09:26:28	09:26:28	37.2900	31.8908	37.2901	31.8225	37.2901	31.8567	2.0	1.5	1.8	A	N	A	1.52801	3.69611	6.12959	0.21177	8.32	A	A	A	A	N	1.91549	3.12909	7.1124	0.04256	2.094	A	A	A	A	A	88.30
1.11.2019	09:31:28	09:31:29	09:31:28	37.2630	31.8573	37.2718	31.8391	37.2674	31.8482	2.0	1.6	1.8	A	N	A	0.85842	3.93832	2.75064	0.34917	8.041	A	A	A	A	N	2.21093	3.47256	8.24165	0.0684	8.062	A	A	A	A	N	75.84
7.11.2019	09:24:30	09:24:31	09:24:30	37.2973	31.9770	37.2728	31.8438	37.2851	31.9104	1.8	1.7	1.8	A	N	A	1.18916	3.85532	4.81439	0.31285	6.81	A	A	A	A	A	2.02866	3.24158	9.32482	0.07173	8.085	A	A	A	A	N	87.54
20.11.2019	09:25:36	09:25:34	09:25:35	37.2773	31.8867	37.1678	31.7105	37.2226	31.7986	2.1	1.7	1.9	A	N	A	1.25763	3.77526	3.46106	0.26181	5	A	A	A	A	A	1.59069	3.19878	6.71737	0.0733	8.333	A	A	A	A	N	87.54
23.11.2019	09:01:24	09:01:24	09:01:24	37.2762	31.8722	37.2831	31.8505	37.2797	31.8614	2.0	1.8	1.9	A	N	A	1.89736	4.04385	8.65049	0.19498	4.979	A	A	A	A	A	1.45135	3.34881	6.181	0.07105	2.094	A	A	A	A	A	100.00
30.11.2019	09:28:03	09:28:04	09:28:04	37.2703	31.9132	37.2830	31.8716	37.2767	31.8924	2.3	1.8	2.1	A	N	A	1.99564	3.96038	12.1005	0.08974	2.277	A	A	A	A	A	4.35252	3.71336	12.6571	0.00941	2.761	A	A	A	A	A	100.00
3.12.2019	09:32:06	09:32:06	09:32:06	37.2658	31.8618	37.2696	31.8318	37.2677	31.8468	1.9	1.5	1.7	A	N	A	1.27259	3.99118	4.95019	0.2767	3.185	A	A	A	A	A	2.28198	3.39382	9.13672	0.06518	9.308	A	A	A	A	N	87.54
13.12.2019	09:20:47	09:20:47	09:20:47	37.2670	31.8860	37.2315	31.9566	37.2493	31.9213	2.1	1.8	2.0	A	N	A	0.93553	3.90418	2.07015	0.48344	6.838	A	A	A	N	A	2.0812	3.38611	6.5074	0.073	9.239	A	A	A	A	N	75.76
18.12.2019	10:00:29	10:00:28	10:00:28	37.2800	31.9050	37.2265	31.7720	37.2533	31.8385	2.2	1.9	2.1	A	N	A	1.09411	3.99277	2.0029	0.60183	8.055	A	A	N	A	N	2.21607	3.48605	6.5754	0.11544	8.322	A	A	A	A	N	69.57
21.12.2019	09:28:19	09:28:19	09:28:19	37.2825	31.8788	37.2623	31.8216	37.2724	31.8502	2.2	2.0	2.1	A	N	A	1.14844	4.14551	4.2147	0.35733	4.595	N	A	A	A	A	2.88158	3.79346	9.04905	0.06358	3.562	N	A	A	A	A	75.23
26.12.2019	09:30:30	09:30:29	09:30:29	37.2700	31.8362	37.2111	31.7708	37.2406	31.8035	1.8	1.5	1.7	A	N	A	1.25134	3.63714	5.20034	0.23487	8.427	A	A	A	A	N	1.50096	3.10412	5.94684	0.11391	5.908	A	A	A	A	A	88.30
4.04.2020	09:32:32	09:32:31	09:32:31	37.3123	31.9393	37.2698	31.8711	37.2911	31.9052	1.9	1.7	1.8	A	N	A	1.44614	3.79854	8.57359	0.10669	3.143	A	A	A	A	A	1.58834	3.24321	8.2607	0.03463	2.743	A	A	A	A	A	100.00
16.04.2020	09:30:05	09:30:05	09:30:05	37.2798	31.8862	37.2856	31.9106	37.2827	31.8984	2.2	1.9	2.1	A	N	A	3.83713	4.09827	17.6403	0.04882	3.452	A	A	A	A	A	2.64407	3.51401	11.8898	0.01231	3.539	A	A	A	A	A	100.00
21.04.2020	09:29:34	09:29:34	09:29:34	37.2890	31.9115	37.2873	31.8705	37.2882	31.8910	2.2	1.9	2.1	N	N	A	1.84184	4.20424	8.51332	0.13998	3.471	N	A	A	A	A	0.88474	3.35607	4.17677	0.08674	3.959	N	A	A	A	A	75.23
2.05.2020	09:47:35	09:47:36	09:47:35	37.2732	31.8985	37.3000	31.9048	37.2866	31.9017	2.0	1.5	1.8	A	N	A	1.3058	3.85393	7.6929	0.18284	7.974	A	A	A	A	N	3.18183	3.48864	15.8196	0.03788	2.3	A	A	A	A	A	88.30
5.05.2020	09:31:47	09:31:44	09:31:45	37.2790	31.9282	37.0915	31.9108	37.1853	31.9195	2.2	1.8	2.0	A	N	A	1.64497	4.00349	6.42485	0.18435	3.419	A	A	A	A	A	4.20141	3.59527	17.2099	0.02419	2.307	A	A	A	A	A	100.00
7.05.2020	09:34:57	09:34:57	09:34:57	37.2952	31.9348	37.2998	31.8770	37.2975	31.9059	2.2	1.9	2.1	A	N	A	1.84412	4.0158	9.85393	0.11617	7.944	A	A	A	A	N	6.13841	3.82315	23.7479	0.01811	1.783	A	A	A	A	A	88.30
12.05.2020	09:49:03	09:49:03	09:49:03	37.2685	31.8450	37.2616	31.8031	37.2651	31.8241	2.3	2.0	2.2	A	N	A	1.8033	4.11574	8.41132	0.15228	3.494	N	A	A	A	A	1.36069	3.38195	5.00418	0.06103	3.545	A	A	A	A	A	87.61
13.05.2020	09:36:48	09:36:48	09:36:48	37.2665	31.8600	37.2788	31.8906	37.2727	31.8753	1.8	1.3	1.6	A	N	A	1.21273	3.61744	3.07258	0.24053	3.221	A	A	A	A	A	1.71941	3.05305	5.58783	0.05101	2.065	A	A	A	A	A	100.00
15.05.2020	09:34:21	09:34:22	09:34:22	37.2647	31.8303	37.2986	31.9105	37.2817	31.8704	2.1	1.6	1.9	A	N	A	1.25175	3.87868	7.7269	0.13937	4.66	A	A	A	A	A	2.45511	3.5455	11.2713	0.03257	3.504	A	A	A	A	A	100.00
16.05.2020	09:39:36	09:39:38	09:39:37	37.3275	32.0292	37.2921	31.9990	37.3098	32.0141	2.0	1.6	1.8	N	N	A	3.03124	3.90791	21.8324	0.08632	2.676	A	A	A	A	A	8.34248	3.44006	21.4537	0.01678	3.105	N	A	A	A	A	87.61
21.05.2020	09:30:14	09:30:15	09:30:14	37.2730	31.8847	37.2866	31.8663	37.2798	31.8755	2.0	1.7	1.9	A	N	A	1.01264	3.88153	2.85787	0.51309	5.338	A	A	A	A	A	1.70875	3.34558	7.1406	0.11158	6.268	A	A	A	A	A	100.00
28.05.2020	09:30:45	09:30:45	09:30:45	37.2928	31.9352	37.2613	31.8751	37.2771	31.9052	2.0	1.6	1.8	A	N	A	1.84632	4.01363	9.44607	0.25672	6.646	A	A	A	A	A	3.78952	3.59437	16.5559	0.02994	2.292	A	A	A	A	A	100.00
30.05.2020	09:32:49	09:32:49	09:32:49	37.2822	31.8847	37.2806	31.9143	37.2814	31.8995	2.0	1.7	1.9	N	N	A	1.06813	3.9163	5.19097	0.21782	3.458	A	A	A	A	A	1.00884	3.2263	3.52755	0.09052	2.089	A	A	A	A	A	100.00

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Date (KOERI-RETMC, AFAD and FD)	Time (UTC) KOERI-RETMC	Time (UTC) AFAD	Time Average (UTC) FD	Latitude (oN) KOERI-RETMC	Longitude (oE) KOERI-RETMC	Latitude (oN) AFAD	Longitude (oE) AFAD	Latitude Average (oN) FD	Longitude Average (oE) FD	MI KOERI-RETMC	MI AFAD	MI Average FD	ST KOERI-RETMC	ST AFAD	ST FD	SEYD (KOERI-RETMC)										SEDI (AFAD)										Overall Result
																As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	As/Ap	log(As)	C	Sr	fc (Hz)	AR QDF	C LDF	C QDF	STFT	CF-PS	
6.06.2020	09:25:41	09:25:42	09:25:41	37.2682	31.7997	37.2948	31.9281	37.2815	31.8639	2.1	1.5	1.8	A	N	A	0.63762	3.73676	1.05397	1.28907	6.844	A	N	N	N	A	1.29461	3.25669	2.48504	0.18032	2.08	A	A	N	A	A	69.07
8.06.2020	09:31:46	09:31:47	09:31:46	37.2893	31.8842	37.2995	31.8825	37.2944	31.8834	1.7	1.4	1.6	A	N	A	0.81229	3.65742	4.37353	0.24197	3.102	A	A	A	A	A	3.07063	3.39119	8.01403	0.06356	3.543	A	A	A	A	A	100.00
17.06.2020	09:46:32	09:46:33	09:46:32	37.2862	31.9135	37.3018	31.8628	37.2940	31.8882	2.0	1.4	1.7	A	A	A	0.67014	3.63025	1.26325	0.96179	4.984	A	N	N	N	A	1.72062	3.25455	4.27599	0.11615	2.099	A	A	A	A	A	75.57
24.06.2020	09:01:25	09:01:26	09:01:25	37.2670	31.8422	37.2906	31.8828	37.2788	31.8625	1.7	1.1	1.4	A	A	A	1.06088	3.54218	2.1585	0.41535	8.224	A	A	A	N	N	2.0902	3.05263	4.95016	0.0551	2.067	A	A	A	A	A	76.53
27.06.2020	08:33:07	08:33:07	08:33:07	37.2822	31.8993	37.2733	31.8521	37.2778	31.8757	2.1	1.8	2.0	A	N	A	3.91138	4.18204	21.9621	0.06372	2.363	A	A	A	A	A	3.13222	3.53455	11.6951	0.01964	1.694	A	A	A	A	A	100.00
2.07.2020	08:37:12	08:37:12	08:37:12	37.2808	31.8528	37.2895	31.8596	37.2852	31.8562	2.2	1.7	2.0	A	N	A	3.85935	4.11863	26.8937	0.05086	2.353	A	A	A	A	A	2.47197	3.49789	10.0487	0.01684	1.659	A	A	A	A	A	100.00
14.07.2020	09:13:05	09:13:06	09:13:06	37.2810	31.8565	37.3011	31.8320	37.2911	31.8443	2.0	1.4	1.7	A	N	A	2.05485	3.92967	10.2975	0.15188	5.906	A	A	A	A	A	2.5574	3.36791	7.70198	0.06161	6.785	A	A	A	A	A	100.00
21.07.2020	08:56:16	08:56:17	08:56:16	37.2802	31.8807	37.2951	31.8571	37.2877	31.8689	2.0	1.6	1.8	A	N	A	3.68401	3.92634	16.8692	0.10534	5.938	A	A	A	A	A	2.94392	3.35432	8.85938	0.05194	2.66	A	A	A	A	A	100.00
14.08.2020	08:16:51	08:16:51	08:16:51	37.2480	31.8117	37.2940	31.8980	37.2710	31.8549	2.2	1.6	1.9	A	N	A	2.01137	3.75052	10.3523	0.08923	5.008	A	A	A	A	A	1.4074	3.19096	4.92959	0.04465	2.849	A	A	A	A	A	100.00
17.08.2020	17:47:46	17:47:45	17:47:45	37.2667	32.0167	37.2660	32.0190	37.2664	32.0179	2.4	1.9	2.2	N	N	N	0.89971	4.04637	2.24042	1.64879	7.934	N	N	N	N	N	1.15112	3.51436	1.82874	0.46786	10.387	N	N	N	N	N	0.00
18.08.2020	09:37:03	09:37:03	09:37:03	37.2867	31.8450	37.2963	31.8906	37.2915	31.8678	2.2	1.5	1.9	A	N	A	5.00417	4.0618	22.3881	0.02986	2.602	A	A	A	A	A	2.64268	3.39755	13.8435	0.01393	1.647	A	A	A	A	A	100.00
8.09.2020	09:00:26	09:00:27	09:00:26	37.2718	31.8307	37.2796	31.8318	37.2757	31.8313	1.8	1.6	1.7	A	N	A	2.08737	3.94993	11.677	0.16948	3.672	A	A	A	A	A	2.66714	3.48351	9.605	0.04361	3.566	A	A	A	A	A	100.00
24.09.2020	09:27:26	09:27:26	09:27:26	37.2867	31.9445	37.2885	31.8613	37.2876	31.9029	2.2	1.8	2.0	A	N	A	3.78293	3.87832	30.691	0.02533	3.344	A	A	A	A	A	7.12311	3.67161	34.847	0.00452	2.36	A	A	A	A	A	100.00
1.10.2020	08:45:24	08:45:24	08:45:24	37.2768	31.8882	37.2905	31.8488	37.2837	31.8685	2.2	1.6	1.9	A	N	A	2.59497	3.85121	24.7934	0.0493	3.389	A	A	A	A	A	5.81692	3.64773	28.0137	0.00396	1.781	A	A	A	A	A	100.00
8.10.2020	08:48:25	08:48:27	08:48:26	37.2440	31.7612	37.2860	31.8703	37.2650	31.8158	1.8	1.3	1.6	N	N	A	1.32729	3.62214	7.35006	0.14922	2.72	A	A	A	A	A	3.02562	3.2559	10.3921	0.03902	2.104	A	A	A	A	A	100.00
15.10.2020	07:07:37	07:07:38	07:07:38	37.2927	31.7605	37.3155	31.8181	37.3041	31.7893	2.4	1.8	2.1	N	N	N	1.92682	4.48008	6.9858	0.60597	7.261	N	A	N	A	N	1.52314	3.90647	2.6281	0.44054	7.72	N	N	N	N	N	18.16
17.11.2020	09:48:45	09:48:45	09:48:45	37.3013	31.9255	37.2878	31.8980	37.2946	31.9118	1.8	1.4	1.6	A	N	A	1.10757	3.63695	4.54817	0.23499	6.634	A	A	A	A	A	3.23208	3.28904	16.9495	0.03162	2.083	A	A	A	A	A	100.00
19.11.2020	09:10:10	09:10:11	09:10:11	37.2737	31.8872	37.2810	31.8860	37.2774	31.8866	2.2	1.9	2.1	A	N	A	1.21212	3.8706	5.25285	0.12182	2.792	A	A	A	A	A	1.19434	3.30664	4.27618	0.05458	2.814	A	A	A	A	A	100.00
24.11.2020	09:15:37	09:15:38	09:15:37	37.2468	31.8675	37.2851	31.9288	37.2660	31.8982	2.2	2.0	2.1	A	N	A	3.64852	4.0653	15.1053	0.05323	3.084	A	A	A	A	A	2.05919	3.51763	9.34505	0.02595	2.083	A	A	A	A	A	100.00
18.12.2020	09:38:09	09:38:10	09:38:09	37.2637	31.8123	37.2863	31.8700	37.2750	31.8412	2.0	1.5	1.8	N	N	A	1.97739	3.8845	6.19256	0.37641	6.648	A	A	A	A	A	3.10351	3.46177	6.32754	0.06672	1.472	A	A	A	A	A	100.00
22.12.2020	09:29:17	09:29:18	09:29:17	37.2880	31.8972	37.3008	31.8826	37.2944	31.8899	2.2	2.0	2.1	A	N	A	1.35469	4.01447	3.2357	0.55084	7.88	A	A	A	N	N	3.28698	3.57199	4.83949	0.11304	3.108	A	A	A	A	A	76.53
24.12.2020	09:28:40	09:28:41	09:28:40	37.3212	31.9512	37.2903	31.8466	37.3058	31.8989	2.1	1.6	1.9	A	N	A	0.87995	3.77518	2.8171	0.5251	5.132	A	A	A	N	A	1.00295	3.16244	4.0193	0.11029	6.368	A	A	A	A	A	88.23

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