

Electronic Supplement 2. Earthquakes used for the receiver function analysis^{a,b}.

Date	Origin Time (HH:MM:SS)	Latitude (°)	Longitude (°)	Depth (km)	Magnitude (M _w)	Distance (°)	Azimuth (°)	Back- Azimuth (°)
28 April 2016	19:33:24.07	-16.0429	167.3786	24.00	7.0	87.94	236.82	56.82
16 April 2016	23:58:36.98	0.3819	-79.9218	20.59	7.8	46.35	133.32	313.32
15 April 2016	16:25:06.22	32.7906	130.7543	10.00	7.0	89.77	270.34	90.34
03 April 2016	08:23:52.32	-14.3235	166.8551	26.00	6.9	87.39	237.94	57.94
30 January 2016	03:25:12.22	53.9776	158.5463	177.00	7.2	62.12	289.45	109.45
24 January 2016	10:30:30.23	59.6363	-153.4051	129.00	7.1	37.04	317.12	137.12
14 January 2016	03:25:33.64	41.9723	142.7810	46.00	6.7	76.68	276.88	96.88
26 November 2015	05:45:18.40	-9.1825	-71.2574	602.75	6.7	59.22	134.28	314.28
24 November 2015	22:45:38.88	-10.5372	-70.9437	606.21	7.6	60.42	134.98	314.98
18 November 2015	18:31:04.57	-8.8994	158.4217	12.59	6.8	91.33	243.41	63.41
13 November 2015	20:51:31.03	31.0009	128.8729	12.00	6.7	92.14	269.29	89.29
11 November 2015	02:46:19.83	-29.5097	-72.0585	10.00	6.9	74.30	146.14	326.14
09 November 2015	16:03:46.07	51.6394	-173.0746	15.00	6.5	45.51	294.72	114.72
07 November 2015	07:31:43.87	-30.8796	-71.4519	46.00	6.8	75.71	146.42	326.42
20 October 2015	21:52:02.56	-14.8595	167.3028	135.00	7.1	87.33	237.49	57.49
21 September 2015	17:40:00.06	-31.7275	-71.3792	35.00	6.6	76.42	146.76	326.76
16 September 2015	22:54:32.86	-31.5729	-71.6744	22.44	8.3	76.14	146.87	326.87
12 August 2015	18:49:24.08	-9.3293	157.8772	6.43	6.5	92.01	243.33	63.33
10 August 2015	04:12:15.81	-9.3438	158.0525	22.00	6.6	91.87	243.27	63.27
27 July 2015	04:49:46.40	52.3760	-169.4458	29.00	6.9	43.33	297.18	117.18
18 July 2015	02:27:33.82	-10.4012	165.1409	11.00	7.0	86.59	240.66	60.66
16 July 2015	15:16:33.78	13.8672	-58.5479	20.00	6.5	54.98	109.36	289.36
10 July 2015	04:12:42.54	-9.3070	158.4030	12.00	6.7	91.56	243.20	63.20
3 June 2015	12:18:30.27	27.7375	139.7254	460.00	6.5	86.61	267.17	87.17
30 June 2015	11:23:02.11	27.8386	140.4931	664.00	7.8	86.00	267.21	87.21
29 June 2015	07:00:09.00	56.5940	-156.4300	72.60	6.7	37.08	310.56	130.56
22 June 2015	21:45:19.48	-11.0559	163.6959	11.19	6.9	88.13	240.74	60.74
20 June 2015	22:48:53.42	-10.8759	164.1694	11.00	6.8	87.65	240.69	60.69
19 June 2015	15:25:21.08	-54.3312	-132.1618	7.20	6.7	87.72	189.47	9.47
12 June 2015	21:12:58.89	38.9056	142.0317	35.00	6.8	78.79	274.60	94.60
07 June 2015	07:10:19.59	-7.2175	154.5567	10.00	7.1	93.67	245.30	65.30
05 June 2015	01:44:06.38	-5.4624	151.8751	55.00	7.5	95.00	246.85	66.85
01 June 2015	08:06:03.48	-5.2005	151.7773	44.00	6.8	94.94	247.01	67.01
17 June 2015	15:52:51.48	-15.8815	-178.6005	10.00	6.5	77.05	231.45	51.45
29 March 2015	23:48:31.01	-4.7294	152.5623	41.00	7.5	94.03	247.08	67.08
16 February 2015	23:06:28.27	39.8558	142.8808	23.00	6.7	77.73	275.32	95.32

13 February 2015	18:59:12.23	52.6487	-31.9016	16.68	7.1	61.33	71.47	251.47
11 February 2015	18:57:22.46	-23.1125	-66.6880	223.00	6.7	72.45	139.75	319.75
23 January 2015	03:47:27.05	-17.0309	168.5200	219.96	6.8	87.60	235.89	55.89
07 January 2015	05:07:07.51	5.9045	-82.6576	8.00	6.5	40.48	130.48	310.48
08 December 2014	08:54:52.52	7.9401	-82.6865	20.00	6.6	39.04	128.38	308.38
07 December 2014	01:22:02.18	-6.5108	154.4603	23.00	6.6	93.37	245.70	65.70
16 November 2014	22:33:20.45	-37.6478	179.6621	22.00	6.7	92.25	220.87	40.87
01 November 2014	18:57:22.38	-19.6903	-177.7587	434.00	7.1	78.88	228.91	48.91
14 October 2014	03:51:34.46	12.5262	-88.1225	40.00	7.3	32.00	127.92	307.92
09 October 2014	02:14:31.44	-32.1082	-110.8112	16.54	7.0	64.49	175.93	355.93
17 September 2014	06:14:45.41	13.7641	144.4294	130.00	6.7	90.84	258.59	78.59
20 August 2014	23:21:45.52	-14.5980	-73.5714	101.00	6.8	61.75	139.25	319.25
21 July 2014	14:54:41.00	-19.8015	-178.4001	615.42	6.9	79.41	229.14	49.14
11 July 2014	19:22:00.82	37.0052	142.4525	20.00	6.5	79.53	273.27	93.27
04 July 2014	15:00:27.86	-6.2304	152.8075	20.00	6.5	94.62	246.23	66.23
29 June 2014	17:15:09.34	-14.9831	-175.5096	18.00	6.7	74.19	230.57	50.57
23 June 2014	20:53:09.70	51.8486	178.7352	109.00	7.9	50.58	292.20	112.20
13 May 2014	06:35:24.24	7.2096	-82.3045	10.00	6.5	39.82	128.83	308.83
12 May 2014	18:38:36.70	-49.9403	-114.7995	10.47	6.5	82.17	179.47	359.47
04 May 2014	09:15:52.88	-24.6108	179.0856	527.00	6.6	84.28	227.66	47.66
01 May 2014	06:36:35.55	-21.4542	170.3546	106.00	6.6	88.74	232.86	52.86
13 April 2014	12:36:19.23	-11.4633	162.0511	39.00	7.4	89.71	241.01	61.01
12 April 2014	20:14:39.30	-11.2701	162.1481	22.56	7.6	89.52	241.08	61.08
11 April 2014	07:07:23.13	-6.5858	155.0485	60.53	7.1	92.92	245.51	65.51
01 April 2014	23:46:47.26	-19.6097	-70.7691	25.00	8.2	67.31	140.31	320.31
18 February 2014	09:27:13.12	14.6682	-58.9272	14.83	6.5	54.26	108.74	288.74
07 February 2014	08:40:13.55	-15.0691	167.3721	122.00	6.5	87.40	237.35	57.35
02 February 2014	09:26:37.82	-32.9076	-177.8806	44.26	6.5	87.64	222.07	42.07
01 January 2014	16:03:29.00	-13.8633	167.2490	187.00	6.5	86.81	238.06	58.06
30 August 2012	13:43:25.17	71.4410	-10.6050	14.00	6.8	64.18	56.42	236.42

^aOrigin time, location and magnitude provided by USGS (see Data and Resources).

^bDistance, Azimuth and Back-Azimuth, resulted from Matlab-based scripts, with computations relative to the central point of the array: 32.1°N, 115.7°W.