

Appendix Table: Non-repeating FRBs from the CHIME/FRB catalog (unfiltered sample used in the paper)

FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM ^{Y^{T20}_{halo}} (pc cm ⁻³)	DM ^{NE2001_{MW}} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20180907D	122.3	26.6	800.2	4.9	1447.1	34.51	55.94	1356.64	1.541 ± 0.097	(2.43 ± 0.293)e+41
20181115A	159.1	44.2	468.8	1.9	981.6	30.34	40.05	911.23	1.007 ± 0.066	(2.46 ± 0.328)e+40
20181122B	117.3	27.2	480.7	22.0	225.8	34.93	54.38	136.45	0.048 ± 0.011	(5.55 ± 2.81)e+38
20181124A	135.1	52.0	674.9	2.6	1108.5	30.84	34.47	1043.22	1.166 ± 0.075	(6.39 ± 0.823)e+40
20181130A	110.5	-14.7	412.1	1.3	220.1	40.21	95.10	84.78	0.099 ± 0.006	(1.2 ± 0.152)e+38
20181202B	116.0	51.9	590.1	4.1	825.9	31.85	33.65	760.39	0.825 ± 0.055	(4.43 ± 0.619)e+40
20181216A	89.4	9.0	634.0	1.7	542.7	50.42	146.71	345.61	0.315 ± 0.026	(2.7 ± 0.486)e+39
20181230B	124.4	16.9	450.2	9.7	1137.4	36.96	84.93	1015.47	1.133 ± 0.073	(1.5 ± 0.195)e+41
20181231B	161.7	36.5	657.7	2.3	197.2	30.78	46.86	119.53	0.026 ± 0.009	(2.31 ± 2.02)e+37
20190105A	93.2	31.4	800.2	3.5	383.6	37.23	46.31	300.01	0.258 ± 0.023	(4.62 ± 0.89)e+39
20190118A	30.1	31.4	474.9	18.0	225.1	55.02	53.46	116.64	0.022 ± 0.009	(9.29 ± 9.53)e+37
20190122B	113.5	-27.0	737.5	1.8	469.6	35.44	54.49	379.64	0.358 ± 0.028	(4.21 ± 0.729)e+39
20190206C	120.2	42.6	439.2	3.8	1043.0	32.30	38.28	972.42	1.081 ± 0.070	(5.24 ± 0.687)e+40
20190212C	205.0	72.0	498.1	12.2	1016.5	30.47	22.34	963.65	1.071 ± 0.070	(1.87 ± 0.246)e+41
20190224D	122.2	26.4	531.6	6.1	753.0	34.56	56.30	662.10	0.706 ± 0.048	(4.32 ± 0.627)e+40
20190228B	128.1	20.6	489.5	66.0	1115.2	35.35	71.38	1008.52	1.124 ± 0.073	(1.1 ± 0.142)e+42
20190304A	139.8	31.8	419.4	2.9	483.7	32.19	49.80	401.73	0.385 ± 0.030	(4.64 ± 0.785)e+39
20190308B	125.9	21.4	455.5	1.4	180.2	35.40	68.69	76.10	0.089 ± 0.005	(1.17 ± 0.148)e+38
20190320E	123.8	26.8	592.6	12.3	299.1	34.32	55.82	208.99	0.142 ± 0.016	(3.5 ± 0.869)e+39
20190322C	102.8	21.2	400.2	13.0	1192.1	38.87	65.83	1087.38	1.219 ± 0.078	(2.06 ± 0.263)e+41
20190323B	122.8	39.9	586.4	10.6	789.6	32.38	40.22	716.97	0.773 ± 0.052	(9.96 ± 1.41)e+40
20190329B	137.3	22.9	500.4	0.0	406.1	33.92	65.99	306.14	0.266 ± 0.023	—
20190410B	39.3	21.8	454.4	0.5	642.2	61.85	78.43	501.89	0.510 ± 0.037	(1.39 ± 0.219)e+39
20190425A	42.1	33.0	591.8	31.6	128.2	49.04	48.80	30.33	0.035 ± 0.002	(5.33 ± 0.666)e+38
20190425B	122.5	28.5	474.8	3.1	1031.7	34.11	52.73	944.88	1.048 ± 0.068	(4.35 ± 0.574)e+40
20180729A	115.3	61.2	525.6	17.0	109.6	31.48	30.78	47.33	0.055 ± 0.003	(6.27 ± 0.787)e+38
20181116B	100.5	44.6	400.2	1.9	409.9	33.75	36.34	339.79	0.308 ± 0.026	(1.84 ± 0.333)e+39
20181222E	125.0	24.7	492.8	5.5	328.0	34.65	59.93	233.41	0.173 ± 0.018	(1.96 ± 0.443)e+39
20181228A	113.9	-52.3	484.5	4.0	748.7	31.96	34.23	682.49	0.731 ± 0.050	(2.77 ± 0.399)e+40
20190122C	341.3	78.1	400.2	47.0	689.9	33.69	24.35	631.86	0.669 ± 0.046	(2.25 ± 0.33)e+41
20190125B	82.2	52.6	609.9	4.7	178.2	34.49	33.23	110.52	0.014 ± 0.009	(1.24 ± 2.07)e+37
20190218C	131.7	36.6	440.4	31.0	319.3	32.11	43.69	243.52	0.186 ± 0.019	(1.15 ± 0.251)e+40
20190219A	173.9	20.2	400.2	1.0	657.2	32.81	78.78	545.60	0.563 ± 0.040	(3.22 ± 0.493)e+39
20190220A	109.0	37.8	400.2	0.7	216.1	33.87	40.92	141.33	0.054 ± 0.011	(1.84 ± 0.843)e+37
20190221C	93.9	5.1	664.9	7.1	2042.3	52.82	220.44	1769.04	2.030 ± 0.126	(4.85 ± 0.547)e+41
20190223A	125.0	25.7	444.8	1.6	389.2	34.44	58.11	296.69	0.254 ± 0.023	(1.12 ± 0.217)e+39
20190301B	136.8	17.7	400.2	0.8	621.3	35.29	82.84	503.21	0.511 ± 0.037	(2.33 ± 0.366)e+39
20190325C	142.0	3.5	542.7	3.8	797.8	41.18	188.43	568.23	0.591 ± 0.042	(1.92 ± 0.291)e+40
20190326A	133.5	40.3	458.0	1.5	283.3	31.63	40.70	210.99	0.145 ± 0.016	(3.45 ± 0.848)e+38
20190327A	63.7	16.1	400.2	5.2	346.6	54.99	88.80	202.78	0.134 ± 0.016	(8.88 ± 2.27)e+38
20190405A	83.4	-30.7	460.0	2.5	424.9	39.19	47.26	338.43	0.306 ± 0.026	(2.72 ± 0.493)e+39
20190408A	102.5	32.1	576.6	1.5	863.4	35.68	45.94	781.76	0.851 ± 0.057	(1.7 ± 0.236)e+40
20190412B	51.4	6.3	400.2	12.8	375.8	83.39	264.90	27.46	0.032 ± 0.002	(1.2 ± 0.149)e+38
20190415C	169.6	-4.8	495.3	0.8	650.2	38.16	168.49	443.53	0.437 ± 0.033	(1.89 ± 0.309)e+39
20190422A	153.3	-19.2	582.8	9.1	452.3	33.69	79.47	339.14	0.307 ± 0.026	(1.26 ± 0.228)e+40
20190423A	138.1	60.3	400.2	55.4	242.6	30.57	31.66	180.42	0.105 ± 0.014	(5.75 ± 1.68)e+39
20190428A	218.8	69.7	696.0	7.4	969.4	30.61	26.99	911.80	1.008 ± 0.066	(1.41 ± 0.188)e+41
20190502C	128.0	32.6	473.2	8.3	396.8	32.90	47.46	316.47	0.279 ± 0.024	(7.62 ± 1.43)e+39
20190516B	247.5	58.8	419.4	9.9	1235.4	31.70	33.30	1170.41	1.318 ± 0.084	(1.92 ± 0.24)e+41
20180924A	142.1	-22.0	770.6	3.5	1116.5	33.75	69.29	1013.51	1.130 ± 0.073	(9.24 ± 1.2)e+40
20181118B	178.4	-31.9	534.8	3.2	422.3	30.99	53.06	338.22	0.306 ± 0.026	(4.03 ± 0.732)e+39
20181222B	173.2	7.5	415.1	0.8	619.2	36.76	148.29	434.20	0.426 ± 0.032	(1.62 ± 0.266)e+39
20181222C	146.5	35.4	400.2	2.9	1104.9	31.41	46.37	1027.11	1.147 ± 0.074	(4.09 ± 0.529)e+40
20181222D	128.2	60.8	443.0	1.2	1417.1	30.92	31.16	1355.03	1.539 ± 0.097	(3.37 ± 0.406)e+40
20181231A	143.4	-39.2	680.4	2.2	1376.7	31.20	43.06	1302.47	1.476 ± 0.093	(8.56 ± 1.04)e+40
20190110B	168.9	38.7	407.8	1.9	486.1	30.48	45.56	410.08	0.396 ± 0.031	(3.12 ± 0.524)e+39
20190114A	117.8	-43.5	425.8	2.3	887.4	32.38	38.05	816.96	0.894 ± 0.059	(2.11 ± 0.289)e+40

Appendix Table 1 — <i>continued</i>										
FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM _{halo} ^{Y120} (pc cm ⁻³)	DM _{MW} ^{NE2001} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20190121A	119.3	16.2	523.2	10.8	425.4	37.96	87.32	300.07	0.258 ± 0.023	(9.34 ± 1.8)e + 39
20190124E	58.0	-3.1	625.6	7.3	617.8	85.48	392.03	140.27	0.053 ± 0.011	(2.93 ± 1.37)e + 38
20190128D	48.8	7.5	419.5	3.6	430.2	82.97	232.80	114.46	0.019 ± 0.009	(1.24 ± 1.47)e + 37
20190210B	192.1	11.7	400.2	5.3	624.2	35.23	116.47	472.49	0.473 ± 0.035	(1.24 ± 0.198)e + 40
20190212D	131.4	49.5	400.2	5.7	1139.8	31.11	35.32	1073.33	1.202 ± 0.077	(8.81 ± 1.13)e + 40
20190307A	28.9	29.6	557.1	0.0	355.3	57.58	58.04	239.72	0.181 ± 0.018	—
20190317C	190.5	32.4	472.6	7.8	598.3	31.01	53.56	513.69	0.524 ± 0.038	(2.66 ± 0.415)e + 40
20190323D	151.4	-6.0	400.2	2.5	763.6	38.62	162.29	562.73	0.584 ± 0.041	(9.01 ± 1.37)e + 39
20190403A	126.9	27.9	513.6	3.2	518.8	33.78	54.20	430.85	0.422 ± 0.032	(7.53 ± 1.24)e + 39
20190409A	195.7	-17.3	524.7	8.7	1791.9	33.68	84.37	1673.84	1.918 ± 0.119	(4.23 ± 0.484)e + 41
20190411C	118.5	-42.2	640.1	9.3	233.7	32.46	38.90	162.31	0.082 ± 0.013	(9.22 ± 3.15)e + 38
20190420A	160.7	24.2	800.2	3.1	609.1	32.35	65.72	511.03	0.521 ± 0.038	(1.77 ± 0.277)e + 40
20190420B	144.3	22.7	478.4	15.1	846.8	33.44	67.41	745.99	0.808 ± 0.054	(1.27 ± 0.178)e + 41
20190420C	59.8	42.8	400.2	4.1	630.0	39.64	35.72	554.59	0.574 ± 0.041	(1.44 ± 0.22)e + 40
20190424A	139.6	50.1	487.9	2.0	758.7	30.72	35.48	692.46	0.743 ± 0.051	(1.44 ± 0.206)e + 40
20190515D	199.9	-33.9	530.2	8.8	426.1	31.06	47.79	347.21	0.317 ± 0.026	(1.19 ± 0.213)e + 40
20180810A	180.7	14.1	552.9	1.7	414.9	34.30	104.68	275.91	0.227 ± 0.021	(1.19 ± 0.241)e + 39
20180906B	130.9	60.3	449.3	1.5	3038.1	30.83	31.37	2975.87	3.454 ± 0.210	(1.71 ± 0.171)e + 41
20180911A	128.9	26.7	400.2	2.6	221.3	33.84	56.52	130.90	0.041 ± 0.010	(3.92 ± 2.27)e + 37
20180925A	134.3	21.1	800.2	8.7	237.7	34.61	70.63	132.49	0.043 ± 0.010	(2.9 ± 1.61)e + 38
20181012B	113.4	52.0	428.3	1.4	715.2	32.01	33.45	649.73	0.691 ± 0.048	(7.87 ± 1.15)e + 39
20181118A	144.0	-68.0	630.1	10.0	557.4	30.51	31.50	495.40	0.502 ± 0.037	(4.15 ± 0.655)e + 40
20181208A	91.9	32.3	400.3	4.0	562.8	37.21	45.16	480.41	0.483 ± 0.036	(9.76 ± 1.55)e + 39
20181209A	146.2	23.5	403.5	3.2	328.7	33.16	65.69	229.80	0.169 ± 0.018	(8.85 ± 2.02)e + 38
20181220B	117.2	27.5	419.5	3.8	257.8	34.88	53.64	169.28	0.091 ± 0.013	(3.06 ± 0.978)e + 38
20181224A	109.8	-16.5	549.5	3.3	310.2	39.47	84.97	185.76	0.112 ± 0.014	(5.36 ± 1.51)e + 38
20190103B	191.2	1.1	507.0	12.9	541.1	40.48	187.13	313.52	0.275 ± 0.024	(1.23 ± 0.232)e + 40
20190103D	99.8	51.7	400.2	1.2	1913.6	33.02	33.27	1847.26	2.123 ± 0.131	(5.21 ± 0.581)e + 40
20190122A	103.2	-21.8	694.2	5.7	1231.2	38.58	64.59	1128.04	1.268 ± 0.081	(1.69 ± 0.214)e + 41
20190206A	23.3	38.0	534.5	9.1	188.3	51.17	41.41	95.76	0.112 ± 0.110	(1.43 ± 4.45)e + 39
20190224B	114.7	28.8	472.7	4.5	839.4	34.88	51.41	753.07	0.816 ± 0.055	(3.81 ± 0.534)e + 40
20190224C	203.5	27.2	747.4	7.9	497.4	32.01	59.89	405.50	0.390 ± 0.030	(2.31 ± 0.389)e + 40
20190323A	184.4	22.3	542.7	2.7	857.5	32.38	72.75	752.37	0.816 ± 0.055	(2.63 ± 0.369)e + 40
20190403G	180.4	-5.2	506.6	1.6	865.3	37.78	165.33	662.21	0.706 ± 0.048	(1.07 ± 0.156)e + 40
20190429A	89.1	24.0	603.0	1.8	470.9	40.55	57.63	372.70	0.349 ± 0.028	(3.42 ± 0.597)e + 39
20190515B	100.3	-57.3	417.0	11.3	822.2	32.53	32.47	757.19	0.821 ± 0.055	(8.55 ± 1.2)e + 40
20180729B	156.9	15.7	657.5	1.2	317.2	34.42	94.00	188.81	0.116 ± 0.015	(2.5 ± 0.691)e + 38
20180814B	108.6	37.6	800.2	10.6	238.3	33.93	41.10	163.32	0.083 ± 0.013	(1.36 ± 0.459)e + 39
20180907E	160.8	62.0	400.2	6.9	383.4	30.07	30.50	322.79	0.287 ± 0.024	(5.68 ± 1.05)e + 39
20180916C	172.2	21.7	640.9	2.1	2252.9	32.53	73.87	2146.48	2.477 ± 0.152	(1.96 ± 0.211)e + 41
20180922A	112.6	9.3	400.2	7.7	555.7	42.81	141.20	371.68	0.348 ± 0.028	(9.49 ± 1.66)e + 39
20180923C	37.7	48.1	420.5	1.4	174.0	41.51	29.09	103.38	0.004 ± 0.109	(0.003 ± 1.75)e + 38
20181013C	191.2	49.5	400.2	1.6	1005.8	29.99	38.57	937.21	1.039 ± 0.068	(1.9 ± 0.252)e + 40
20181017B	113.0	34.9	593.2	6.5	307.4	33.90	43.64	229.83	0.169 ± 0.018	(2.64 ± 0.604)e + 39
20181030C	49.7	-21.8	500.9	5.5	668.8	55.96	73.04	539.76	0.556 ± 0.040	(2.25 ± 0.346)e + 40
20181030E	220.2	33.2	470.5	6.3	159.7	32.02	49.93	77.75	0.091 ± 0.005	(5.71 ± 0.722)e + 38
20181101A	127.9	-8.7	497.4	10.7	1472.7	40.13	144.78	1287.76	1.459 ± 0.092	(2.98 ± 0.363)e + 41
20181122A	147.5	1.9	400.2	1.4	662.8	41.63	196.06	425.13	0.415 ± 0.032	(2.52 ± 0.418)e + 39
20181201B	84.9	27.4	429.4	2.2	876.6	40.09	51.32	785.17	0.855 ± 0.057	(1.89 ± 0.262)e + 40
20181203B	159.1	-29.0	693.2	4.5	375.4	31.66	56.65	287.08	0.242 ± 0.022	(4.5 ± 0.886)e + 39
20181218A	120.4	8.6	448.4	1.6	1874.4	41.53	147.19	1685.69	1.932 ± 0.120	(6.7 ± 0.764)e + 40
20190116C	103.2	36.3	672.1	65.0	629.3	34.75	41.87	552.65	0.572 ± 0.041	(3.78 ± 0.577)e + 41
20190129A	158.9	-32.3	707.7	5.0	484.8	31.27	52.04	401.45	0.385 ± 0.030	(1.35 ± 0.228)e + 40
20190202B	187.1	23.2	536.2	2.7	464.9	32.24	70.14	362.53	0.336 ± 0.027	(4.16 ± 0.733)e + 39
20190208B	132.8	24.9	417.9	14.3	714.2	33.86	60.60	619.76	0.654 ± 0.045	(6.82 ± 1.01)e + 40
20190219B	88.0	41.9	612.2	14.4	1681.1	35.59	37.71	1607.81	1.839 ± 0.115	(7.58 ± 0.875)e + 41
20190227A	160.5	25.3	599.9	12.5	394.0	32.17	63.46	298.41	0.256 ± 0.023	(1.22 ± 0.235)e + 40
20190303C	211.1	72.5	449.8	3.5	1089.7	30.57	23.02	1036.06	1.158 ± 0.075	(5.58 ± 0.721)e + 40
20190309A	81.4	23.5	442.9	0.7	356.9	42.68	58.63	255.59	0.202 ± 0.020	(3.16 ± 0.668)e + 38
20190317A	166.9	8.8	582.6	1.2	1157.3	36.37	138.04	982.85	1.094 ± 0.071	(2.32 ± 0.303)e + 40
20190328A	158.2	31.9	400.2	2.7	1303.6	31.33	51.77	1220.47	1.378 ± 0.088	(5.35 ± 0.662)e + 40
20190409C	103.5	35.0	418.3	2.2	674.6	34.95	43.01	596.67	0.626 ± 0.044	(9.46 ± 1.41)e + 39

Appendix Table 1 — *continued*

FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM ^{YT20} _{halo} (pc cm ⁻³)	DM ^{NE2009} _{MW} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20190409D	87.2	-25.7	507.6	2.7	1300.1	40.28	54.68	1205.15	1.360 ± 0.086	(6.81 ± 0.845)e+40
20190418A	179.3	-22.9	400.2	2.2	184.5	32.25	70.11	82.15	0.096 ± 0.006	(1.9 ± 0.24)e + 38
20190518C	16.3	38.1	494.3	14.8	444.1	53.10	41.72	349.26	0.320 ± 0.026	(1.89 ± 0.338)e+40
20180915B	36.2	60.9	400.2	3.8	177.1	37.12	22.45	117.56	0.023 ± 0.009	(1.84 ± 1.79)e + 37
20181019B	132.0	7.1	460.1	2.7	725.2	40.37	159.70	525.11	0.538 ± 0.039	(9.47 ± 1.47)e + 39
20181022C	128.6	30.9	443.9	3.2	528.5	33.12	49.91	445.44	0.440 ± 0.033	(7.12 ± 1.16)e + 39
20181123A	89.7	12.9	488.5	2.5	798.7	46.78	103.88	648.06	0.689 ± 0.047	(1.55 ± 0.226)e+40
20181129C	64.6	54.2	560.6	3.6	502.2	36.01	26.48	439.72	0.433 ± 0.033	(9.78 ± 1.6)e + 39
20181202A	95.0	-40.7	505.7	13.7	668.0	34.94	38.80	594.21	0.623 ± 0.044	(7.15 ± 1.07)e + 40
20181203A	146.4	-35.5	800.2	3.6	635.9	31.41	46.69	557.83	0.578 ± 0.041	(2.55 ± 0.388)e+40
20181203C	120.6	44.1	400.2	4.8	2444.6	32.12	37.46	2374.99	2.747 ± 0.168	(3.34 ± 0.351)e+41
20181218C	88.6	21.2	472.7	1.7	384.2	41.93	64.34	277.89	0.230 ± 0.021	(1.06 ± 0.213)e+39
20181224B	145.2	-11.0	400.2	3.1	781.0	36.82	121.32	622.87	0.658 ± 0.046	(1.43 ± 0.211)e+40
20181227A	126.8	16.1	656.8	1.8	791.2	36.94	89.03	665.25	0.710 ± 0.049	(1.61 ± 0.233)e+40
20190102A	119.0	-36.0	495.2	4.2	699.2	33.17	43.57	622.43	0.657 ± 0.046	(2.4 ± 0.354)e + 40
20190103E	71.9	32.6	547.3	2.0	736.2	40.91	45.65	649.68	0.691 ± 0.048	(1.4 ± 0.203)e + 40
20190115A	141.4	-3.8	457.2	0.9	1021.7	41.05	186.33	794.30	0.866 ± 0.058	(8.77 ± 1.21)e + 39
20190124A	145.3	-4.6	529.5	13.4	1275.9	40.03	176.61	1059.22	1.185 ± 0.076	(2.67 ± 0.342)e+41
20190124C	41.9	68.5	431.9	13.7	303.6	34.94	21.41	247.30	0.191 ± 0.019	(5.24 ± 1.13)e + 39
20190128A	133.2	-37.5	400.2	2.0	696.1	31.92	43.59	620.60	0.655 ± 0.046	(9.16 ± 1.35)e + 39
20190130A	141.7	-47.8	467.7	4.4	1367.5	30.73	37.37	1299.36	1.472 ± 0.093	(1.17 ± 0.143)e+41
20190130B	238.6	67.8	487.1	3.0	989.0	31.14	29.76	928.13	1.028 ± 0.067	(4.08 ± 0.542)e+40
20190131E	122.4	36.2	476.5	5.1	279.8	32.85	43.32	203.63	0.135 ± 0.016	(1.05 ± 0.268)e+39
20190201A	127.3	23.8	476.6	3.1	242.0	34.61	62.35	145.04	0.059 ± 0.011	(1.19 ± 0.51)e + 38
20190203A	143.2	35.5	472.9	4.0	420.6	31.56	45.83	343.18	0.312 ± 0.026	(4.65 ± 0.839)e+39
20190208C	128.8	31.0	474.9	1.7	238.4	33.08	49.67	155.64	0.073 ± 0.012	(1.02 ± 0.376)e+38
20190224E	131.1	55.0	454.9	4.0	435.9	30.92	33.05	371.89	0.348 ± 0.028	(5.61 ± 0.979)e+39
20190226A	162.4	-16.5	527.9	1.4	601.6	33.95	91.24	476.38	0.478 ± 0.035	(4.47 ± 0.714)e+39
20190307B	64.5	26.6	656.8	0.0	294.0	45.85	54.86	193.30	0.122 ± 0.015	—
20190313B	140.6	25.8	400.2	2.7	1191.2	33.09	59.84	1098.32	1.232 ± 0.079	(4.44 ± 0.565)e+40
20190317E	41.1	13.4	800.2	7.3	800.9	75.59	134.30	590.99	0.619 ± 0.043	(5.95 ± 0.89)e + 40
20190409B	152.7	34.6	545.5	6.8	285.6	31.23	47.84	206.56	0.139 ± 0.016	(1.7 ± 0.427)e + 39
20190415B	120.6	-8.0	518.3	22.3	723.0	41.92	155.34	525.73	0.539 ± 0.039	(8.84 ± 1.37)e + 40
20180904A	113.2	26.2	519.7	6.0	361.1	35.67	55.45	270.01	0.220 ± 0.021	(3.7 ± 0.755)e + 39
20180915A	48.0	10.0	571.9	6.2	371.0	76.81	171.97	122.26	0.029 ± 0.010	(6.91 ± 5.35)e + 37
20180923A	109.8	13.8	468.9	1.2	219.4	40.77	100.06	78.62	0.092 ± 0.006	(1.11 ± 0.14)e + 38
20181013B	162.9	17.8	400.2	21.0	277.5	33.60	85.76	158.14	0.076 ± 0.012	(1.13 ± 0.405)e+39
20181014B	188.2	-13.8	487.5	1.9	888.0	34.44	102.57	750.96	0.814 ± 0.055	(1.63 ± 0.229)e+40
20181014D	343.2	52.5	624.3	18.0	377.1	42.26	30.05	304.82	0.264 ± 0.023	(1.95 ± 0.372)e+40
20181018C	163.4	-7.7	400.2	3.3	411.2	36.97	146.19	228.03	0.166 ± 0.018	(8.8 ± 2.02)e + 38
20181119B	67.8	1.1	536.4	94.0	609.1	80.27	442.23	86.60	0.101 ± 0.006	(1.21 ± 0.153)e+40
20181220A	105.2	-10.7	400.2	3.0	209.4	43.69	125.85	39.86	0.047 ± 0.003	(5.95 ± 0.745)e+37
20190104A	166.7	-7.0	400.2	3.9	549.4	37.14	151.52	360.78	0.334 ± 0.027	(4.42 ± 0.781)e+39
20190117D	54.8	75.3	419.2	3.5	1178.1	33.31	22.54	1122.21	1.261 ± 0.081	(6.21 ± 0.785)e+40
20190124D	115.6	33.2	402.1	1.9	340.1	33.93	45.67	260.52	0.208 ± 0.020	(8.06 ± 1.68)e + 38
20190128C	132.8	20.8	491.6	5.9	310.6	34.83	71.33	204.47	0.136 ± 0.016	(1.28 ± 0.324)e+39
20190131D	168.1	-24.1	585.1	6.8	642.1	32.17	67.54	542.42	0.559 ± 0.040	(3.29 ± 0.504)e+40
20190210E	119.8	25.4	472.2	1.4	580.6	35.06	57.86	487.65	0.492 ± 0.036	(4.34 ± 0.687)e+39
20190211B	94.4	16.1	440.1	1.4	260.7	43.19	84.43	133.07	0.044 ± 0.010	(2.57 ± 1.4)e + 37
20190320C	42.7	34.2	442.0	3.1	368.8	48.00	47.07	273.71	0.225 ± 0.021	(1.72 ± 0.348)e+39
20190403E	121.1	30.2	620.6	76.0	226.2	33.91	49.89	142.39	0.056 ± 0.011	(3.36 ± 1.51)e + 39
20190403F	150.4	-23.1	400.2	7.1	664.2	32.98	67.37	563.83	0.586 ± 0.042	(2.58 ± 0.392)e+40
20190411B	200.1	55.9	507.5	3.7	1229.6	30.04	35.31	1164.24	1.311 ± 0.084	(8.57 ± 1.07)e + 40
20190423B	63.2	-0.9	524.6	7.0	584.9	86.58	482.47	15.90	0.019 ± 0.001	(2.85 ± 0.355)e+37
20180730A	125.1	25.1	483.5	27.0	848.9	34.55	59.18	755.18	0.819 ± 0.055	(2.35 ± 0.33)e + 41
20180906A	217.2	40.6	800.2	2.7	383.5	31.12	43.43	308.91	0.269 ± 0.023	(3.9 ± 0.739)e + 39
20180918A	98.1	17.1	617.6	4.1	1454.0	41.70	80.01	1332.28	1.512 ± 0.095	(1.51 ± 0.183)e+41
20180925B	210.4	46.5	479.6	2.7	667.9	30.50	39.65	597.71	0.627 ± 0.044	(1.35 ± 0.202)e+40
20180928A	74.2	-8.6	400.2	2.5	252.8	58.58	158.13	36.06	0.042 ± 0.003	(4.05 ± 0.506)e+37
20181015A	125.2	33.2	403.2	3.4	568.8	33.04	46.56	489.23	0.494 ± 0.036	(8.75 ± 1.39)e + 39
20181124B	76.7	-12.9	800.2	4.8	801.6	52.00	104.95	644.70	0.685 ± 0.047	(4.81 ± 0.703)e+40
20181214B	179.3	43.9	400.2	1.2	1120.7	30.11	42.09	1048.55	1.173 ± 0.076	(1.81 ± 0.233)e+40

Appendix Table 1 — *continued*

FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM _{halo} ^{Y120} (pc cm ⁻³)	DM _{MW} ^{NE2009} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20190104B	359.7	37.5	800.2	9.5	530.1	57.20	49.86	423.07	0.412 ± 0.032	(3.33 ± 0.553)e+40
20190117C	140.3	29.3	648.6	0.8	865.9	32.51	53.30	780.09	0.849 ± 0.057	(9.94 ± 1.38)e+39
20190222B	220.3	59.6	400.2	4.4	497.6	30.52	33.18	433.91	0.425 ± 0.032	(8.24 ± 1.36)e+39
20190302A	133.3	0.2	400.2	35.0	1034.2	45.39	220.83	768.02	0.835 ± 0.056	(2.62 ± 0.366)e+41
20190304B	20.4	78.8	400.2	2.2	470.0	33.54	22.65	413.82	0.400 ± 0.031	(3.67 ± 0.614)e+39
20190304C	39.0	63.2	454.9	1.3	565.0	36.31	22.08	506.61	0.515 ± 0.038	(4.19 ± 0.656)e+39
20190317B	166.1	19.2	512.6	1.9	424.3	33.16	80.63	310.52	0.271 ± 0.024	(1.78 ± 0.336)e+39
20190414A	159.1	74.8	400.2	1.7	812.0	30.57	20.14	761.27	0.826 ± 0.055	(1.28 ± 0.179)e+40
20190421B	149.8	15.1	400.2	16.4	392.2	35.03	96.36	260.87	0.208 ± 0.020	(6.96 ± 1.45)e+39
20180812A	124.0	18.0	400.2	5.4	802.5	36.65	80.41	685.39	0.734 ± 0.050	(3.12 ± 0.449)e+40
20180907A	77.8	-14.7	400.2	2.8	877.2	49.84	92.05	735.35	0.795 ± 0.054	(1.9 ± 0.268)e+40
20180917B	112.0	35.4	456.2	8.3	857.0	33.94	43.15	779.94	0.849 ± 0.057	(7.34 ± 1.02)e+40
20180920B	124.3	53.6	421.1	1.7	463.4	31.29	33.16	398.95	0.382 ± 0.030	(2.68 ± 0.454)e+39
20181013A	63.2	31.5	443.7	3.5	309.3	43.53	48.14	217.63	0.153 ± 0.017	(8.71 ± 2.08)e+38
20181018A	125.6	-11.2	800.2	5.8	1129.4	39.16	120.91	969.37	1.077 ± 0.070	(1.45 ± 0.19)e+41
20181019C	98.7	39.7	800.2	2.1	501.6	34.68	39.19	427.76	0.418 ± 0.032	(7.58 ± 1.25)e+39
20181102A	191.8	-6.2	800.2	2.5	414.5	37.47	155.64	221.36	0.158 ± 0.017	(1.21 ± 0.284)e+39
20181214A	160.8	-2.4	435.0	0.4	468.1	40.03	184.27	243.85	0.187 ± 0.019	(1.51 ± 0.329)e+38
20181218B	124.8	6.6	400.2	1.8	753.4	41.98	169.63	541.79	0.559 ± 0.040	(5.94 ± 0.911)e+39
20181221B	113.9	23.2	492.2	3.3	1395.0	36.37	61.97	1296.68	1.469 ± 0.093	(9.21 ± 1.12)e+40
20181223C	207.8	79.5	479.2	2.8	112.5	30.93	19.93	61.65	0.072 ± 0.004	(1.63 ± 0.206)e+38
20181226E	106.6	20.4	400.2	1.4	308.8	38.46	68.89	201.41	0.132 ± 0.016	(2.24 ± 0.577)e+38
20181228B	94.6	38.3	435.2	1.7	568.7	35.43	39.99	493.24	0.499 ± 0.037	(4.74 ± 0.748)e+39
20181228C	82.1	31.9	400.2	0.7	510.7	39.06	45.60	426.04	0.416 ± 0.032	(1.32 ± 0.219)e+39
20181230C	78.2	43.9	699.9	2.1	1037.2	36.48	36.88	963.84	1.071 ± 0.070	(4.53 ± 0.595)e+40
20190106B	97.8	-9.3	452.1	3.8	316.6	46.97	141.75	127.87	0.037 ± 0.010	(5.26 ± 3.33)e+37
20190111A	37.5	68.5	400.2	17.0	172.0	35.15	21.43	115.38	0.020 ± 0.009	(6.32 ± 7.02)e+37
20190115B	130.7	23.4	457.5	5.2	748.3	34.37	63.76	650.16	0.691 ± 0.048	(3.04 ± 0.443)e+40
20190116F	106.5	31.6	637.5	1.5	316.9	35.28	46.83	234.81	0.175 ± 0.018	(7.26 ± 1.63)e+38
20190124B	43.0	70.7	434.2	11.7	441.4	34.47	21.58	385.33	0.365 ± 0.029	(1.73 ± 0.297)e+40
20190210D	91.5	9.4	611.8	2.5	359.1	49.20	141.29	168.65	0.090 ± 0.013	(2.88 ± 0.927)e+38
20190222C	63.8	49.8	436.3	0.8	524.0	37.07	29.47	457.47	0.455 ± 0.034	(1.95 ± 0.315)e+39
20190223B	96.9	10.8	638.6	0.8	536.5	46.10	124.71	365.71	0.340 ± 0.027	(1.58 ± 0.277)e+39
20190308C	133.6	72.4	449.0	4.8	500.5	30.86	23.13	446.52	0.441 ± 0.033	(1.09 ± 0.177)e+40
20190317F	75.2	50.8	434.8	26.0	1118.1	35.51	33.33	1049.27	1.173 ± 0.076	(4.17 ± 0.536)e+41
20190518B	232.0	72.4	478.4	2.1	913.8	31.00	26.06	856.71	0.942 ± 0.062	(2.4 ± 0.325)e+40
20180727A	24.8	85.6	493.3	2.3	642.1	32.43	21.44	588.26	0.616 ± 0.043	(1.15 ± 0.172)e+40
20180801A	109.2	15.5	595.6	7.9	655.7	40.08	90.11	525.54	0.539 ± 0.039	(3.6 ± 0.557)e+40
20180817A	68.3	54.0	501.1	29.0	1006.8	35.67	27.69	943.41	1.046 ± 0.068	(4.28 ± 0.565)e+41
20181014C	178.1	28.4	537.7	1.5	752.2	31.41	59.90	660.85	0.704 ± 0.048	(1.06 ± 0.153)e+40
20181129B	114.3	23.2	556.8	9.5	405.9	36.31	62.14	307.45	0.267 ± 0.023	(9.41 ± 1.79)e+39
20181202C	92.6	10.6	487.4	3.4	557.2	47.71	126.49	382.96	0.362 ± 0.029	(5.54 ± 0.956)e+39
20181217A	91.0	19.6	663.5	1.8	1177.2	42.18	69.73	1065.25	1.193 ± 0.077	(4.44 ± 0.569)e+40
20181224C	156.7	29.4	400.2	9.6	596.3	31.69	55.32	509.32	0.519 ± 0.038	(2.71 ± 0.424)e+40
20181224D	135.4	61.3	400.2	1.9	690.2	30.66	31.37	628.17	0.664 ± 0.046	(9.19 ± 1.35)e+39
20181230D	77.4	37.9	800.2	2.0	224.0	38.10	40.53	145.34	0.060 ± 0.011	(1.3 ± 0.557)e+38
20190116D	144.4	19.0	400.2	4.7	1164.0	34.29	78.57	1051.16	1.176 ± 0.076	(6.96 ± 0.894)e+40
20190203C	310.4	65.2	800.2	4.4	370.5	35.16	29.67	305.63	0.265 ± 0.023	(6.15 ± 1.17)e+39
20190205A	119.3	21.4	485.7	1.7	695.4	36.19	67.67	591.53	0.620 ± 0.044	(8.42 ± 1.26)e+39
20190218A	132.7	60.0	483.6	1.6	1285.1	30.76	31.42	1222.95	1.381 ± 0.088	(4.02 ± 0.498)e+40
20190320D	87.7	33.5	634.8	11.4	1141.3	37.56	43.89	1059.90	1.186 ± 0.076	(2.72 ± 0.349)e+41
20190323C	101.6	75.9	454.3	1.4	381.1	31.76	23.59	325.77	0.290 ± 0.025	(1.32 ± 0.245)e+39
20190402A	148.4	67.1	453.3	1.3	1291.7	30.39	26.36	1234.94	1.396 ± 0.089	(3.12 ± 0.385)e+40
20190412A	93.6	42.0	706.8	6.9	364.7	34.89	37.58	292.26	0.248 ± 0.022	(7.43 ± 1.45)e+39
20190422B	169.6	57.0	400.2	1.6	977.4	29.91	34.09	913.38	1.010 ± 0.066	(1.72 ± 0.23)e+40
20190427A	194.4	-17.2	400.2	9.5	455.8	33.66	84.94	337.18	0.305 ± 0.025	(8.88 ± 1.61)e+39
20190501B	82.0	34.0	400.2	3.2	784.1	38.39	43.56	702.12	0.755 ± 0.051	(1.96 ± 0.279)e+40
20190502B	110.0	50.7	498.1	10.1	918.6	32.33	33.81	852.47	0.937 ± 0.062	(1.19 ± 0.161)e+41
20180725A	147.3	21.3	607.4	4.1	715.8	33.55	71.57	610.68	0.643 ± 0.045	(2.74 ± 0.407)e+40
20180806A	112.3	38.4	665.3	7.6	739.9	33.45	40.63	665.87	0.710 ± 0.049	(6.83 ± 0.989)e+40
20181020A	113.8	19.7	400.2	4.9	1112.5	37.52	72.14	1002.81	1.118 ± 0.072	(6.57 ± 0.855)e+40
20181027A	231.1	23.4	800.2	22.0	727.7	34.56	64.05	629.14	0.666 ± 0.046	(2.08 ± 0.306)e+41

Appendix Table 1 — *continued*

FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM ^{YT20} _{halo} (pc cm ⁻³)	DM ^{NE2009} _{MW} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20181030D	188.7	-10.4	514.8	5.9	289.4	35.58	123.58	130.28	0.040 ± 0.010	(1.1 ± 0.647)e + 38
20181117A	163.1	48.1	800.2	3.1	959.3	30.11	38.09	891.08	0.983 ± 0.065	(6.45 ± 0.866)e + 40
20181125A	191.6	51.0	426.5	3.2	272.2	29.96	37.95	204.27	0.136 ± 0.016	(5.99 ± 1.52)e + 38
20181128D	103.8	53.7	400.2	7.0	146.5	32.55	32.74	81.21	0.095 ± 0.006	(5.9 ± 0.746)e + 38
20181215A	173.7	10.1	400.2	0.7	412.6	35.65	128.52	248.46	0.193 ± 0.019	(2.59 ± 0.559)e + 38
20181224E	17.5	41.8	400.2	10.3	581.9	49.40	36.56	495.89	0.502 ± 0.037	(2.72 ± 0.429)e + 40
20190102B	133.8	-40.7	428.8	3.9	367.2	31.57	41.04	294.55	0.251 ± 0.022	(2.61 ± 0.507)e + 39
20190124F	72.5	-43.9	425.6	6.4	254.8	37.30	37.64	179.85	0.104 ± 0.014	(6.97 ± 2.04)e + 38
20190203B	154.3	36.7	437.5	0.9	582.2	30.98	45.84	505.40	0.514 ± 0.037	(2.82 ± 0.442)e + 39
20190204B	107.9	32.7	571.7	4.4	1464.9	34.86	45.51	1384.57	1.574 ± 0.099	(1.62 ± 0.194)e + 41
20190206B	129.6	18.6	506.4	9.6	352.5	35.78	78.53	238.21	0.179 ± 0.018	(3.78 ± 0.841)e + 39
20190211A	140.6	13.6	656.0	5.8	1188.3	36.27	103.85	1048.13	1.172 ± 0.075	(1.4 ± 0.18)e + 41
20190213D	101.8	-4.1	671.4	2.2	1346.8	50.74	234.58	1061.53	1.188 ± 0.076	(5.58 ± 0.715)e + 40
20190214C	20.4	64.9	463.1	5.2	533.1	36.88	22.09	474.14	0.475 ± 0.035	(1.42 ± 0.227)e + 40
20190301D	105.7	27.2	425.4	1.5	1160.7	36.45	53.09	1071.16	1.200 ± 0.077	(2.45 ± 0.314)e + 40
20190319A	212.6	12.0	640.9	19.4	2039.9	36.25	107.68	1896.01	2.181 ± 0.135	(1.45 ± 0.161)e + 42
20190320A	142.8	8.3	400.2	4.4	614.1	38.28	143.96	431.91	0.423 ± 0.032	(8.14 ± 1.34)e + 39
20190322A	166.3	25.6	563.0	10.1	1060.1	31.96	63.60	964.56	1.072 ± 0.070	(1.75 ± 0.231)e + 41
20190325A	130.0	30.1	400.2	4.6	359.3	33.12	51.01	275.16	0.226 ± 0.021	(2.32 ± 0.468)e + 39
20190329A	136.5	16.6	432.3	2.2	188.6	35.67	87.83	65.11	0.076 ± 0.005	(1.3 ± 0.164)e + 38
20190404A	186.8	47.2	400.2	4.5	1353.9	30.01	40.25	1283.63	1.454 ± 0.092	(1 ± 0.122)e + 41
20190414B	87.3	41.7	400.2	3.8	506.5	35.71	37.75	433.03	0.424 ± 0.032	(7.08 ± 1.17)e + 39
20190416A	192.3	48.5	465.6	2.8	2287.3	30.03	39.20	2218.04	2.561 ± 0.157	(2.01 ± 0.215)e + 41
20190417C	133.2	11.0	586.6	10.8	320.2	38.16	122.00	160.08	0.079 ± 0.013	(9.12 ± 3.19)e + 38
20190423C	121.6	24.4	433.0	4.4	855.5	35.11	60.41	760.01	0.825 ± 0.055	(3.46 ± 0.484)e + 40
20190430A	125.9	25.8	433.8	7.7	339.2	34.30	57.84	247.11	0.191 ± 0.019	(2.95 ± 0.639)e + 39
20190430B	95.7	44.2	403.8	1.5	2619.4	34.30	36.43	2548.67	2.951 ± 0.180	(1.2 ± 0.124)e + 41
20190517C	182.5	-0.4	435.5	8.7	335.6	40.77	187.99	106.82	0.009 ± 0.008	(0.689 ± 1.92)e + 37
20181013E	103.0	17.1	400.2	2.0	345.3	40.59	80.80	223.91	0.161 ± 0.017	(5.06 ± 1.18)e + 38
20181022D	170.5	75.1	754.7	6.2	514.3	30.51	20.09	463.74	0.462 ± 0.034	(2.6 ± 0.42)e + 40
20181104C	185.0	-13.5	561.0	20.7	580.8	34.50	105.36	440.96	0.434 ± 0.033	(5.67 ± 0.929)e + 40
20181119C	123.4	35.0	400.2	3.5	285.0	32.94	44.63	207.39	0.140 ± 0.016	(6.53 ± 1.63)e + 38
20181119E	124.7	-2.3	425.3	2.2	1169.8	45.40	220.28	904.08	0.999 ± 0.065	(2.51 ± 0.336)e + 40
20181213A	140.4	32.8	400.2	3.2	678.7	32.02	48.55	598.10	0.628 ± 0.044	(1.34 ± 0.2)e + 40
20181213B	135.0	62.5	664.0	1.7	626.6	30.67	30.59	565.33	0.588 ± 0.042	(1.03 ± 0.156)e + 40
20181213C	87.0	62.6	400.2	1.9	380.7	33.01	30.49	317.24	0.280 ± 0.024	(1.45 ± 0.272)e + 39
20181214C	137.7	55.1	400.2	5.0	632.8	30.65	33.32	568.82	0.592 ± 0.042	(1.86 ± 0.281)e + 40
20181214D	149.1	67.4	700.7	9.0	1177.3	30.39	26.02	1120.91	1.259 ± 0.081	(2.66 ± 0.337)e + 41
20181221A	39.5	56.3	510.1	5.8	316.2	38.19	24.42	253.62	0.199 ± 0.019	(2.86 ± 0.607)e + 39
20181223B	227.7	72.7	600.6	4.1	565.7	30.91	25.41	509.34	0.519 ± 0.038	(1.74 ± 0.272)e + 40
20181226B	267.9	72.5	549.7	52.0	287.0	32.16	27.77	227.10	0.165 ± 0.017	(1.88 ± 0.433)e + 40
20190101A	205.3	70.6	400.2	11.3	854.6	30.41	24.30	799.90	0.873 ± 0.058	(9.28 ± 1.28)e + 40
20190109B	19.7	26.5	408.1	3.0	175.2	66.85	68.25	40.07	0.047 ± 0.003	(6.13 ± 0.768)e + 37
20190116E	127.0	-10.3	660.5	1.1	1491.0	39.39	128.42	1323.20	1.501 ± 0.095	(4.37 ± 0.529)e + 40
20190217A	170.8	12.8	521.5	1.2	798.1	34.78	110.75	652.58	0.694 ± 0.048	(8 ± 1.16)e + 39
20190227B	69.0	63.8	400.2	0.7	331.2	34.08	23.91	273.24	0.224 ± 0.021	(3.5 ± 0.71)e + 38
20190228A	237.3	80.5	664.7	35.8	419.1	31.37	20.16	367.55	0.343 ± 0.028	(7.1 ± 1.24)e + 40
20190322B	140.5	34.1	400.2	2.0	577.0	31.85	47.22	497.91	0.505 ± 0.037	(5.45 ± 0.858)e + 39
20190330A	85.8	75.3	400.2	1.1	509.0	32.27	24.83	451.86	0.448 ± 0.034	(2.37 ± 0.386)e + 39
20190401A	122.1	37.2	479.1	8.6	783.2	32.75	42.41	708.05	0.762 ± 0.052	(6.42 ± 0.914)e + 40
20190415A	127.7	45.5	481.7	3.7	633.7	31.56	36.98	565.14	0.587 ± 0.042	(1.63 ± 0.247)e + 40
20190416B	181.1	70.4	400.2	1.5	575.4	30.22	20.53	524.61	0.538 ± 0.039	(4.48 ± 0.694)e + 39
20190417B	134.9	50.7	545.5	9.9	1161.2	30.89	35.00	1095.31	1.229 ± 0.079	(2.18 ± 0.277)e + 41
20190423D	124.6	22.1	565.9	18.0	496.5	35.33	66.18	394.94	0.377 ± 0.030	(3.71 ± 0.632)e + 40
20190426A	158.0	29.2	483.0	2.0	340.7	31.67	55.91	253.08	0.198 ± 0.019	(9.3 ± 1.98)e + 38
20190429B	63.1	-38.2	422.4	5.0	295.6	40.66	42.16	212.84	0.147 ± 0.016	(1.09 ± 0.266)e + 39
20180923D	156.9	61.6	448.0	2.2	329.4	30.12	30.65	268.63	0.218 ± 0.020	(1.15 ± 0.235)e + 39
20181116A	161.8	-51.2	445.8	5.2	355.4	30.05	37.17	288.21	0.243 ± 0.022	(3.4 ± 0.669)e + 39
20181128B	183.3	58.2	400.2	1.9	456.5	29.88	33.58	393.09	0.375 ± 0.029	(2.8 ± 0.479)e + 39
20181225B	123.7	25.5	560.7	7.5	299.3	34.60	58.24	206.44	0.139 ± 0.016	(1.93 ± 0.484)e + 39
20181226C	105.8	-14.7	400.2	2.7	409.0	41.17	93.98	273.86	0.225 ± 0.021	(1.34 ± 0.272)e + 39
20181229B	33.0	47.8	445.5	4.9	389.0	42.41	29.35	317.29	0.280 ± 0.024	(4.27 ± 0.798)e + 39

Appendix Table 1 — <i>continued</i>										
FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM ^{YT20} _{halo} (pc cm ⁻³)	DM ^{NE2009} _{MW} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20190106A	129.7	-16.3	800.2	0.8	340.1	36.52	88.85	214.69	0.149 ± 0.017	(3.45 ± 0.836)e+38
20190110A	155.2	-1.9	411.0	3.8	472.8	40.76	188.59	243.40	0.186 ± 0.019	(1.31 ± 0.287)e+39
20190111B	35.2	26.3	422.5	0.8	1336.9	58.39	65.08	1213.45	1.370 ± 0.087	(1.64 ± 0.203)e+40
20190131C	241.7	60.0	501.4	2.1	507.8	31.37	32.95	443.45	0.437 ± 0.033	(5.22 ± 0.853)e+39
20190224A	128.2	22.6	408.9	8.5	818.4	34.82	65.48	718.10	0.774 ± 0.052	(5.59 ± 0.793)e+40
20190320B	63.2	41.2	400.2	1.9	489.5	39.58	37.58	412.33	0.399 ± 0.031	(3.11 ± 0.521)e+39
20190325B	188.7	81.5	476.9	3.8	1733.9	30.99	19.77	1683.16	1.929 ± 0.120	(1.7 ± 0.194)e+41
20190403B	227.8	29.4	453.2	23.8	292.5	33.07	54.11	205.30	0.137 ± 0.016	(4.83 ± 1.22)e+39
20190405B	122.3	27.7	620.7	17.5	1113.2	34.27	53.96	1024.99	1.144 ± 0.074	(3.81 ± 0.493)e+41
20190410A	21.6	16.0	515.7	5.8	284.0	89.26	128.53	66.22	0.077 ± 0.005	(4.15 ± 0.524)e+38
20190419B	119.6	28.6	487.6	7.9	165.1	34.37	52.24	78.46	0.092 ± 0.006	(7.56 ± 0.956)e+38
20180810B	124.7	33.8	400.2	7.9	169.1	32.99	45.81	90.33	0.106 ± 0.006	(8.28 ± 1.05)e+38
20180907C	129.4	15.7	670.0	1.5	638.2	36.77	91.40	510.03	0.520 ± 0.038	(7.03 ± 1.1)e+39
20180919B	109.4	-56.1	487.6	3.0	560.2	32.01	32.78	495.43	0.502 ± 0.037	(9.64 ± 1.52)e+39
20181018B	112.2	12.1	567.4	7.9	293.9	41.19	113.18	139.50	0.052 ± 0.011	(2.77 ± 1.31)e+38
20181025A	151.7	25.5	400.2	2.7	592.6	32.49	61.69	498.38	0.505 ± 0.037	(7.18 ± 1.13)e+39
20181226D	199.6	24.7	417.2	3.0	385.4	32.27	65.01	288.10	0.243 ± 0.022	(1.82 ± 0.359)e+39
20181230A	119.8	21.1	724.8	18.0	769.6	36.20	68.38	665.03	0.709 ± 0.049	(1.76 ± 0.255)e+41
20181230E	126.4	27.6	488.0	10.4	1041.7	33.88	54.57	953.26	1.058 ± 0.069	(1.53 ± 0.201)e+41
20190101B	70.7	-5.6	713.6	4.4	1323.9	66.06	234.04	1023.80	1.143 ± 0.074	(1.1 ± 0.142)e+41
20190103C	203.6	6.2	543.7	13.4	1349.1	38.11	155.51	1155.51	1.301 ± 0.083	(3.28 ± 0.411)e+41
20190112A	90.5	35.5	697.7	16.2	425.8	36.62	42.06	347.17	0.317 ± 0.026	(2.87 ± 0.515)e+40
20190201B	162.2	30.6	425.9	2.3	749.2	31.37	54.21	663.60	0.708 ± 0.049	(1.31 ± 0.19)e+40
20190202A	87.5	-37.8	492.3	95.0	307.4	36.52	40.72	230.12	0.169 ± 0.018	(3.22 ± 0.735)e+40
20190204A	145.6	49.7	418.2	1.5	449.6	30.51	36.12	383.01	0.362 ± 0.029	(2.1 ± 0.362)e+39
20190212B	165.5	43.6	400.2	3.7	600.2	30.24	41.19	528.75	0.543 ± 0.039	(1.15 ± 0.178)e+40
20190213C	156.6	-4.0	800.2	1.1	357.1	39.30	175.95	141.82	0.055 ± 0.011	(6.04 ± 2.74)e+37
20190226C	128.0	-35.9	433.3	1.4	827.8	32.45	44.48	750.84	0.814 ± 0.055	(1.09 ± 0.153)e+40
20190328B	122.5	30.3	559.5	2.1	565.0	33.76	50.07	481.17	0.484 ± 0.036	(7.33 ± 1.17)e+39
20190330B	80.6	29.2	435.9	5.3	668.1	40.32	48.90	578.87	0.604 ± 0.043	(2.24 ± 0.337)e+40
20190419A	150.9	25.3	407.1	0.8	440.0	32.57	62.24	345.17	0.315 ± 0.026	(7.83 ± 1.41)e+38
20180907B	112.1	-43.0	400.2	2.9	658.2	32.89	38.12	587.18	0.614 ± 0.043	(1.16 ± 0.174)e+40
20181014A	137.2	4.2	800.2	2.7	1314.9	41.42	186.62	1086.85	1.218 ± 0.078	(8.56 ± 1.09)e+40
20181022E	39.5	64.8	443.7	2.1	286.0	35.87	21.76	228.36	0.167 ± 0.018	(6.18 ± 1.42)e+38
20181117B	133.0	23.1	480.4	11.0	538.2	34.24	64.96	439.00	0.432 ± 0.033	(2.55 ± 0.418)e+40
20181126A	113.4	29.9	441.8	9.4	494.2	34.79	49.60	409.83	0.396 ± 0.031	(1.67 ± 0.281)e+40
20181127A	42.9	44.6	479.3	2.9	930.3	42.12	32.25	855.95	0.941 ± 0.062	(3.31 ± 0.449)e+40
20181129A	110.0	-16.1	518.2	3.1	386.0	39.62	86.76	259.59	0.207 ± 0.020	(1.68 ± 0.351)e+39
20181214F	54.2	38.5	425.7	2.2	2105.8	42.45	40.21	2023.10	2.331 ± 0.144	(1.23 ± 0.135)e+41
20181215B	73.6	38.2	590.2	2.9	494.0	38.63	40.59	414.79	0.402 ± 0.031	(7.11 ± 1.19)e+39
20181229A	179.5	42.7	538.1	4.0	955.6	30.17	42.99	882.41	0.973 ± 0.064	(5.48 ± 0.737)e+40
20190109A	210.6	6.9	523.6	6.4	324.6	38.33	147.72	138.56	0.051 ± 0.011	(1.97 ± 0.953)e+38
20190131B	96.2	-47.4	798.1	3.3	1805.7	33.82	35.64	1736.27	1.992 ± 0.124	(2.61 ± 0.296)e+41
20190218B	43.2	20.3	588.0	5.9	547.9	61.48	81.59	404.80	0.389 ± 0.030	(1.35 ± 0.228)e+40
20190221B	59.6	9.2	400.2	5.6	393.1	67.99	165.62	159.51	0.078 ± 0.012	(3.16 ± 1.12)e+38
20190301C	184.3	70.4	400.2	2.3	802.9	30.23	20.52	752.17	0.815 ± 0.055	(1.66 ± 0.233)e+40
20190303B	149.4	35.1	400.2	42.0	193.5	31.32	47.15	115.04	0.020 ± 0.009	(1.49 ± 1.7)e+38
20190318A	110.8	16.4	402.9	14.2	419.3	39.34	85.36	294.57	0.251 ± 0.022	(8.93 ± 1.73)e+39
20190329C	80.7	22.8	800.2	0.0	1256.4	43.22	60.32	1152.82	1.297 ± 0.083	—
20190403C	88.3	39.9	400.2	1.5	935.0	35.94	38.91	860.17	0.946 ± 0.062	(1.48 ± 0.2)e+40
20190404B	64.6	34.1	400.2	16.3	489.4	41.98	45.01	402.44	0.386 ± 0.030	(2.5 ± 0.423)e+40
20190411A	129.1	24.6	800.2	1.4	460.6	34.26	60.79	365.51	0.340 ± 0.027	(3.32 ± 0.582)e+39
20190517D	98.2	-14.6	406.8	5.8	1180.1	43.07	93.36	1043.73	1.167 ± 0.075	(8.6 ± 1.11)e+40
20190518G	138.7	24.2	456.4	1.8	524.9	33.53	63.01	428.41	0.419 ± 0.032	(3.64 ± 0.601)e+39
20180916A	118.8	18.2	464.7	4.5	296.0	37.28	78.43	180.31	0.105 ± 0.014	(5.41 ± 1.58)e+38
20180920A	176.9	-5.9	585.9	8.5	555.7	37.45	160.72	357.49	0.330 ± 0.027	(1.38 ± 0.244)e+40
20180921A	151.1	-54.3	419.9	2.3	394.4	30.24	35.13	329.00	0.294 ± 0.025	(2.1 ± 0.386)e+39
20181117C	162.8	-24.4	676.5	3.0	1773.7	32.25	66.12	1675.37	1.919 ± 0.119	(1.88 ± 0.215)e+41
20181128C	77.0	29.2	485.8	3.4	618.4	41.14	49.16	528.05	0.542 ± 0.039	(1.28 ± 0.198)e+40
20181201A	72.0	68.0	419.0	18.9	694.4	33.41	23.97	636.98	0.675 ± 0.047	(9.64 ± 1.41)e+40
20181219B	128.3	45.1	800.2	27.0	1952.2	31.55	37.31	1883.30	2.166 ± 0.134	(2.49 ± 0.276)e+42
20181219C	130.1	-48.5	400.2	0.6	647.9	31.23	36.15	580.51	0.606 ± 0.043	(2.22 ± 0.335)e+39

Appendix Table 1 — *continued*

FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM ^{YT20} _{halo} (pc cm ⁻³)	DM ^{NE2009} _{MW} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20181231C	120.7	47.9	408.8	1.2	556.1	31.82	35.50	488.77	0.493 ± 0.036	(3.12 ± 0.495)e+39
20190107A	108.4	-39.7	400.2	6.3	849.2	33.64	39.87	775.68	0.844 ± 0.056	(4.83 ± 0.672)e+40
20190118B	152.5	-33.1	645.0	3.6	670.9	31.40	50.15	589.33	0.617 ± 0.043	(2.36 ± 0.354)e+40
20190125A	155.4	-26.6	655.5	2.6	564.7	32.14	60.45	472.11	0.473 ± 0.035	(9.93 ± 1.59)e+39
20190128B	200.9	31.4	515.9	1.6	248.2	31.37	57.28	159.58	0.078 ± 0.012	(1.2 ± 0.422)e+38
20190214A	148.5	22.0	800.2	8.8	497.7	33.32	69.74	394.62	0.377 ± 0.030	(2.56 ± 0.436)e+40
20190215B	97.0	-9.8	400.2	5.6	274.6	46.87	136.20	91.56	0.107 ± 0.006	(6.03 ± 0.765)e+38
20190217B	133.5	-35.1	400.2	6.0	846.2	32.16	45.81	768.24	0.835 ± 0.056	(4.5 ± 0.627)e+40
20190219C	107.7	-10.9	613.5	2.0	806.7	42.93	124.01	639.74	0.679 ± 0.047	(1.48 ± 0.216)e+40
20190221A	217.6	30.9	444.8	2.3	223.8	32.16	52.87	138.78	0.051 ± 0.011	(6.17 ± 2.97)e+37
20190221D	128.7	-1.4	427.2	1.1	473.8	45.28	189.63	238.88	0.180 ± 0.018	(3.79 ± 0.841)e+38
20190222D	71.4	-11.9	583.6	0.9	895.3	55.74	115.57	723.99	0.781 ± 0.053	(8.22 ± 1.16)e+39
20190316A	113.3	-41.8	536.1	2.5	515.9	32.92	38.90	444.10	0.438 ± 0.033	(6.75 ± 1.1)e+39
20190403D	118.4	23.1	400.2	1.8	613.5	35.81	62.90	514.75	0.525 ± 0.038	(5.08 ± 0.792)e+39
20190502A	145.3	52.1	400.2	11.5	625.8	30.45	34.94	560.38	0.581 ± 0.041	(4.12 ± 0.626)e+40
20190515A	92.3	8.3	517.1	16.8	450.5	49.96	157.47	243.07	0.186 ± 0.019	(7.25 ± 1.59)e+39
20190518D	123.2	27.8	475.6	3.0	202.5	34.17	53.98	114.30	0.019 ± 0.009	(1.14 ± 1.37)e+37
20190605D	137.4	-32.7	643.9	2.2	1656.5	32.22	48.79	1575.52	1.801 ± 0.112	(1.15 ± 0.133)e+41
20190519E	170.8	65.2	800.2	1.5	693.8	30.04	27.54	636.25	0.674 ± 0.047	(1.42 ± 0.208)e+40
20190601D	134.1	23.6	400.2	5.7	668.5	34.04	63.89	570.54	0.594 ± 0.042	(2.13 ± 0.322)e+40
20190612A	140.8	39.9	497.1	20.0	432.3	31.27	41.66	359.36	0.333 ± 0.027	(2.79 ± 0.493)e+40
20190612C	150.0	13.0	618.3	12.1	1641.6	35.68	107.75	1498.14	1.709 ± 0.107	(5.62 ± 0.661)e+41
20190630D	224.6	39.9	400.2	2.6	323.5	31.55	43.69	248.27	0.192 ± 0.019	(9.34 ± 2.01)e+38
20190601C	181.3	1.4	502.2	5.8	424.1	40.06	186.34	197.66	0.127 ± 0.015	(1.12 ± 0.294)e+39
20190519F	130.3	38.3	453.9	4.0	797.8	32.02	42.10	723.64	0.781 ± 0.053	(2.97 ± 0.421)e+40
20190621C	336.2	64.5	485.4	2.4	570.3	36.86	25.70	507.71	0.517 ± 0.038	(8.1 ± 1.27)e+39
20190623A	50.4	21.3	469.8	0.9	1082.2	56.14	74.24	951.82	1.056 ± 0.069	(1.21 ± 0.16)e+40
20190701C	132.2	25.9	446.4	2.5	974.2	33.72	58.41	882.07	0.972 ± 0.064	(2.84 ± 0.382)e+40
20190520A	53.3	19.4	444.4	2.4	432.5	56.77	79.66	296.07	0.253 ± 0.022	(1.69 ± 0.328)e+39
20190519D	170.8	62.1	400.2	0.8	539.8	29.96	30.42	479.39	0.482 ± 0.036	(1.97 ± 0.313)e+39
20190624A	134.7	45.0	400.2	3.0	973.8	31.20	37.80	904.85	1.000 ± 0.065	(3.24 ± 0.433)e+40
20190604E	51.1	52.8	400.2	2.3	1218.6	37.93	26.02	1154.65	1.300 ± 0.083	(4.06 ± 0.51)e+40
20190609D	166.5	28.9	400.2	2.4	511.7	31.49	57.52	422.71	0.412 ± 0.032	(4.13 ± 0.686)e+39
20190619D	177.5	26.1	400.2	6.5	378.5	31.73	64.02	282.72	0.236 ± 0.022	(3.57 ± 0.71)e+39
20190618A	75.0	-17.6	419.3	4.3	228.9	48.42	77.23	103.30	0.004 ± 0.109	(0.008 ± 5.47)e+38
20190628B	113.3	32.4	400.2	1.4	408.0	34.32	46.48	327.21	0.292 ± 0.025	(1.19 ± 0.219)e+39
20190527C	158.6	21.1	434.3	20.0	535.4	33.01	73.82	428.61	0.419 ± 0.032	(3.94 ± 0.651)e+40
20190701B	112.9	23.4	471.5	1.9	749.1	36.47	61.50	651.14	0.692 ± 0.048	(1.15 ± 0.167)e+40
20190531A	121.0	35.2	482.8	0.0	324.7	33.10	44.01	247.58	0.191 ± 0.019	—
20190601A	125.1	54.4	638.9	2.7	2227.9	31.22	32.99	2163.68	2.497 ± 0.153	(2.55 ± 0.274)e+41
20190604D	334.3	76.8	622.6	2.5	1021.2	33.82	24.81	962.54	1.069 ± 0.070	(4.74 ± 0.624)e+40
20190605C	263.0	49.9	452.2	4.4	187.6	33.44	37.88	116.32	0.022 ± 0.009	(2.08 ± 2.18)e+37
20190614C	108.3	-25.1	400.2	2.9	589.2	36.64	57.44	495.08	0.501 ± 0.037	(7.66 ± 1.21)e+39
20190617A	124.7	33.1	409.9	21.0	195.8	33.10	46.64	116.02	0.021 ± 0.009	(8.67 ± 9.24)e+37
20190617B	186.1	-39.5	459.3	9.2	273.5	30.38	43.77	199.36	0.130 ± 0.015	(1.68 ± 0.438)e+39
20190627B	65.2	36.7	501.6	10.2	430.3	40.77	42.04	347.51	0.318 ± 0.026	(1.3 ± 0.234)e+40
20190619B	117.1	33.1	400.2	4.5	270.6	33.80	45.87	190.91	0.119 ± 0.015	(5.99 ± 1.63)e+38
20190627D	77.2	10.2	482.4	1.5	2002.2	54.72	132.05	1815.47	2.085 ± 0.129	(8 ± 0.897)e+40
20190531C	93.3	-10.1	453.0	1.2	478.2	47.90	132.36	297.95	0.255 ± 0.023	(8.79 ± 1.7)e+38
20190612B	358.9	53.9	491.3	3.8	187.6	42.57	27.72	117.31	0.023 ± 0.009	(2.18 ± 2.16)e+37
20190619A	137.1	45.6	552.9	3.3	899.9	31.05	37.57	831.29	0.911 ± 0.060	(4.11 ± 0.562)e+40
20190701E	153.3	40.4	410.3	2.0	890.5	30.73	42.36	817.39	0.894 ± 0.059	(1.77 ± 0.242)e+40
20190603B	132.4	14.1	400.2	6.2	504.3	36.97	100.25	367.09	0.342 ± 0.028	(7.38 ± 1.29)e+39
20190608A	105.5	-41.9	570.8	1.5	722.2	33.63	38.37	650.18	0.691 ± 0.048	(1.1 ± 0.16)e+40
20190617C	187.7	40.1	732.3	4.1	640.2	30.35	45.37	564.44	0.586 ± 0.042	(2.73 ± 0.415)e+40
20190625A	52.3	59.2	400.2	11.9	302.1	36.18	23.14	242.83	0.185 ± 0.019	(3.96 ± 0.868)e+39
20190625D	214.1	13.0	450.0	12.1	717.9	36.00	101.18	580.71	0.606 ± 0.043	(5.31 ± 0.799)e+40
20190630C	131.0	21.8	439.7	2.3	1660.3	34.75	68.07	1557.52	1.780 ± 0.111	(8.08 ± 0.94)e+40
20190530A	147.2	8.8	441.1	1.7	555.4	37.62	139.25	378.57	0.357 ± 0.028	(2.42 ± 0.418)e+39
20190519H	121.5	24.8	435.0	6.6	1170.9	35.00	59.40	1076.47	1.206 ± 0.077	(1.12 ± 0.143)e+41
20190519G	105.9	19.0	471.1	22.0	430.1	39.16	73.55	317.38	0.280 ± 0.024	(2.03 ± 0.379)e+40
20190604G	157.7	32.1	400.2	4.5	233.0	31.32	51.44	150.28	0.066 ± 0.012	(1.8 ± 0.715)e+38

Appendix Table 1 — <i>continued</i>										
FRB name	GL (deg)	GB (deg)	ν_c (MHz)	F (Jy ms)	DM (pc cm ⁻³)	DM ^{YT20} _{halo} (pc cm ⁻³)	DM ^{NE2009} _{MW} (pc cm ⁻³)	DM _{exc} (pc cm ⁻³)	z	E _{iso} (erg)
20190609B	122.4	28.7	487.1	22.2	292.2	34.07	52.29	205.83	0.138 ± 0.016	(4.89 ± 1.23)e+39
20190629A	113.1	-49.7	568.2	3.0	503.8	32.19	35.05	436.54	0.429 ± 0.033	(8.24 ± 1.35)e+39
20190630B	91.6	-8.7	526.8	14.7	652.1	49.79	150.53	451.83	0.448 ± 0.034	(4.03 ± 0.655)e+40
20190527A	122.2	-54.9	449.1	10.1	584.6	31.34	33.66	519.58	0.531 ± 0.038	(3.37 ± 0.524)e+40
20190531E	128.0	-62.2	800.2	5.3	328.2	30.92	32.04	265.25	0.214 ± 0.020	(4.75 ± 0.98)e+39
20190607B	141.6	-9.0	800.2	3.2	289.4	38.09	138.31	112.98	0.017 ± 0.009	(1.69 ± 2.24)e+37
20190616A	55.1	54.1	400.2	1.7	212.6	37.09	25.44	150.06	0.066 ± 0.012	(6.65 ± 2.64)e+37
20190622A	118.5	25.9	411.9	1.3	1122.8	35.10	56.86	1030.86	1.151 ± 0.074	(1.87 ± 0.242)e+40
20190623C	123.0	31.1	400.2	5.9	1049.8	33.57	48.86	967.39	1.075 ± 0.070	(7.33 ± 0.963)e+40
20190531B	75.9	34.9	474.6	0.0	168.0	39.26	43.07	85.62	0.100 ± 0.006	—
20190601B	128.8	-38.8	429.5	13.0	787.8	32.06	41.93	713.80	0.769 ± 0.052	(8.86 ± 1.26)e+40
20190609A	121.9	25.3	600.5	10.4	316.6	34.85	58.45	223.34	0.160 ± 0.017	(3.86 ± 0.902)e+39
20190613B	159.0	-4.9	466.6	1.3	285.1	38.61	168.79	77.74	0.091 ± 0.005	(1.13 ± 0.143)e+38
20190623B	97.5	-9.2	643.3	2.8	1556.8	47.18	143.71	1365.87	1.552 ± 0.098	(1.12 ± 0.135)e+41
20190701A	88.3	25.7	800.2	1.7	637.1	40.02	54.27	542.79	0.560 ± 0.040	(1.13 ± 0.173)e+40
20190606B	126.5	27.4	569.2	17.4	277.5	33.93	55.05	188.51	0.116 ± 0.015	(3.12 ± 0.864)e+39
20190607A	138.4	-37.6	400.2	21.3	562.5	31.60	43.92	486.93	0.491 ± 0.036	(5.38 ± 0.853)e+40
20190624B	106.7	20.1	598.8	20.0	213.9	38.55	69.75	105.62	0.007 ± 0.109	(0.015 ± 3.79)e+39
20190628C	122.0	-14.3	433.1	2.5	1748.4	38.34	98.81	1611.30	1.843 ± 0.115	(9.16 ± 1.06)e+40
20190701D	149.3	28.4	467.6	8.6	933.4	32.15	55.94	845.28	0.928 ± 0.061	(9.32 ± 1.27)e+40
20190519J	119.6	26.4	419.5	1.7	642.8	34.85	56.03	551.87	0.571 ± 0.041	(6.15 ± 0.939)e+39
20190529A	161.9	-5.3	453.4	1.4	704.5	38.23	165.46	500.77	0.508 ± 0.037	(4.45 ± 0.7)e+39
20190604C	159.2	5.5	451.6	26.2	515.6	38.27	163.92	313.45	0.275 ± 0.024	(2.23 ± 0.42)e+40
20190619C	144.9	-22.2	800.2	1.2	488.3	33.52	69.27	385.48	0.365 ± 0.029	(3.33 ± 0.572)e+39
20190614B	82.7	-25.4	463.9	8.4	581.9	41.44	54.94	485.54	0.489 ± 0.036	(2.44 ± 0.387)e+40
20190621B	122.6	61.5	400.2	1.2	1061.2	31.14	30.78	999.31	1.113 ± 0.072	(1.58 ± 0.206)e+40
20190627A	309.7	63.5	474.6	2.6	404.2	35.45	30.32	338.45	0.306 ± 0.026	(2.94 ± 0.533)e+39
20190627C	102.2	30.4	400.2	11.3	968.6	36.14	47.99	884.49	0.975 ± 0.064	(1.16 ± 0.156)e+41
20190613A	39.7	30.6	535.2	8.0	715.0	51.83	53.50	609.65	0.642 ± 0.045	(4.7 ± 0.697)e+40
20190614A	123.4	28.8	411.1	2.2	1064.0	33.96	52.32	977.76	1.088 ± 0.071	(2.89 ± 0.378)e+40
20190621D	110.5	28.9	472.1	4.3	647.5	35.36	50.74	561.41	0.583 ± 0.041	(1.82 ± 0.277)e+40
20190625C	188.2	-20.1	410.7	4.0	442.2	32.85	76.17	333.23	0.300 ± 0.025	(3.73 ± 0.681)e+39
20190628A	113.8	64.9	579.1	1.3	745.8	31.46	29.87	684.51	0.733 ± 0.050	(1.07 ± 0.153)e+40