

Online Material for “Inferring redshift and energy distributions of fast radio bursts from the first CHIME/FRB catalog”

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1 The First CHIME/FRB Catalog

The parameters of the first (non-repeating) CHIME/FRB catalog are listed in Table 1 [The CHIME/FRB Collaboration, ApJS 257:59 (2021)]. Column 1: FRB name; Columns 2 and 3: the right ascension and declination of FRB source on the sky; Column 4: the observed DM; Column 5: the DM of the Milky Way ISM calculated using the NE2001 model; Column 6: the extragalactic DM calculated by subtracting DM_{MW} and DM_{halo} from the observed DM_{obs} , assuming $DM_{halo} = 50 \text{ pc cm}^{-3}$ for the Milky Way halo; Column 7: the observed fluence; Column 8: the inferred redshift; Column 9: the isotropic energy; Column 10: the flag for Gold sample (flag=1) or not (flag=0). The redshift and energy are only calculated for FRBs with $DM_E > 100 \text{ pc cm}^{-3}$. Note that the fluence and energy are the lower limits, since the fluence is measured assuming each FRB is detected at the location of maximum sensitivity.

Table 1: The parameters of the first CHIME/FRB catalog.

FRBs	RA [°]	Dec [°]	DM_{obs} [pc/cm ³]	DM_{MW} [pc/cm ³]	DM_E [pc/cm ³]	Fluence [Jy ms]	z_{inf}	$\log(E/\text{erg})$	flag
20180725A	93.42	67.07	716.6	72.4	594.2	4.10 ± 2.30	$0.668^{+0.163}_{-0.315}$	$40.418^{+0.404}_{-0.973}$	0
20180727A	197.72	26.42	642.1	21.2	570.9	2.31 ± 0.76	$0.641^{+0.159}_{-0.340}$	$40.129^{+0.338}_{-0.900}$	0
20180729A	199.40	55.58	108.4	29.6	28.8	17.00 ± 10.00	—	—	0
20180729B	89.93	56.50	318.6	95.4	173.2	1.20 ± 0.74	$0.104^{+0.118}_{-0.081}$	$38.136^{+0.906}_{-1.737}$	0
20180730A	57.39	87.19	849.2	59.5	739.7	27.00 ± 12.00	$0.848^{+0.183}_{-0.332}$	$41.468^{+0.348}_{-0.737}$	0
20180801A	322.53	72.72	656.7	91.1	515.6	7.90 ± 4.80	$0.570^{+0.149}_{-0.313}$	$40.549^{+0.431}_{-1.171}$	0
20180806A	228.56	75.62	739.2	39.9	649.3	7.60 ± 6.60	$0.736^{+0.167}_{-0.306}$	$40.780^{+0.469}_{-1.401}$	0
20180810A	101.47	34.86	415.7	105.5	260.2	1.70 ± 1.00	$0.224^{+0.132}_{-0.166}$	$38.990^{+0.640}_{-1.617}$	0
20180810B	180.41	83.14	169.8	46.5	73.3	7.90 ± 2.10	—	—	0
20180812A	19.33	80.78	795.8	73.7	672.1	5.40 ± 2.80	$0.766^{+0.169}_{-0.317}$	$40.671^{+0.374}_{-0.834}$	0
20180814B	238.26	74.02	237.8	40.6	147.2	10.60 ± 8.30	$0.075^{+0.108}_{-0.061}$	$38.780^{+1.067}_{-2.179}$	0
20180817A	233.20	42.20	1002.8	23.7	929.1	29.00 ± 16.00	$1.095^{+0.198}_{-0.344}$	$41.745^{+0.349}_{-0.712}$	0
20180904A	286.58	81.22	360.7	55.0	255.7	6.00 ± 3.40	$0.218^{+0.130}_{-0.162}$	$39.513^{+0.638}_{-1.598}$	1
20180906A	141.48	14.29	383.3	43.3	290.0	2.70 ± 1.50	$0.261^{+0.142}_{-0.191}$	$39.336^{+0.606}_{-1.564}$	0
20180906B	185.75	56.42	3037.7	31.0	2956.7	1.50 ± 0.88	$3.935^{+0.463}_{-0.705}$	$41.622^{+0.295}_{-0.554}$	0
20180907A	320.87	29.46	875.1	89.9	735.2	2.80 ± 1.40	$0.843^{+0.182}_{-0.336}$	$40.478^{+0.364}_{-0.793}$	1
20180907B	4.49	19.17	658.3	38.2	570.1	2.90 ± 1.60	$0.640^{+0.159}_{-0.340}$	$40.227^{+0.405}_{-1.076}$	1
20180907C	41.72	77.07	638.9	92.1	496.8	1.48 ± 0.69	$0.541^{+0.151}_{-0.300}$	$39.773^{+0.404}_{-1.045}$	0
20180907D	328.95	89.22	1444.4	53.3	1341.1	4.90 ± 2.30	$1.594^{+0.285}_{-0.385}$	$41.327^{+0.319}_{-0.536}$	1
20180907E	167.88	47.09	381.7	28.8	302.9	6.90 ± 3.70	$0.277^{+0.144}_{-0.203}$	$39.800^{+0.585}_{-1.539}$	1
20180909A	123.63	56.76	407.6	48.8	308.8	1.02 ± 0.41	$0.285^{+0.144}_{-0.208}$	$38.995^{+0.538}_{-1.426}$	0
20180910A	352.77	88.21	684.2	57.9	576.3	5.60 ± 3.00	$0.647^{+0.160}_{-0.334}$	$40.523^{+0.400}_{-1.032}$	1
20180911A	99.55	84.62	221.6	56.9	114.7	2.60 ± 1.90	$0.038^{+0.091}_{-0.038}$	$37.576^{+1.333}_{-4.165}$	0

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FRBs	RA [°]	Dec [°]	DM _{obs} [pc/cm ³]	DM _{MW} [pc/cm ³]	DM _E [pc/cm ³]	Fluence [Jy ms]	z_{inf}	$\log(E/\text{erg})$	flag
20180915A	280.55	17.91	370.4	171.3	149.1	6.20 ± 3.20	$0.077^{+0.109}_{-0.063}$	$38.572^{+0.987}_{-1.808}$	1
20180915B	225.23	25.02	176.3	21.6	104.7	3.80 ± 1.00	$0.027^{+0.086}_{-0.026}$	$37.437^{+1.378}_{-3.013}$	1
20180916A	348.97	80.33	296.0	78.4	167.6	4.50 ± 2.50	$0.097^{+0.117}_{-0.076}$	$38.648^{+0.917}_{-1.696}$	1
20180916C	107.15	45.08	2248.3	69.3	2129.0	2.10 ± 1.10	$2.682^{+0.378}_{-0.578}$	$41.433^{+0.299}_{-0.540}$	0
20180917B	238.80	77.53	860.5	46.6	763.9	8.30 ± 3.20	$0.875^{+0.191}_{-0.314}$	$40.986^{+0.331}_{-0.641}$	1
20180918A	301.27	64.96	1454.1	80.1	1324.0	4.10 ± 1.30	$1.576^{+0.278}_{-0.383}$	$41.239^{+0.270}_{-0.429}$	1
20180919B	5.34	5.94	558.0	30.6	477.4	3.00 ± 1.20	$0.512^{+0.154}_{-0.287}$	$40.026^{+0.400}_{-1.004}$	1
20180920A	78.89	28.29	562.9	168.0	344.9	8.50 ± 4.80	$0.337^{+0.142}_{-0.245}$	$40.075^{+0.532}_{-1.571}$	1
20180920B	191.09	63.52	459.4	29.2	380.2	1.70 ± 0.53	$0.391^{+0.138}_{-0.276}$	$39.520^{+0.409}_{-1.306}$	0
20180921A	28.92	5.05	393.1	33.9	309.2	2.30 ± 1.60	$0.285^{+0.144}_{-0.208}$	$39.350^{+0.621}_{-1.719}$	0
20180922A	342.29	69.67	562.9	148.5	364.4	7.70 ± 5.50	$0.367^{+0.139}_{-0.268}$	$40.114^{+0.543}_{-1.762}$	1
20180923A	327.61	71.92	218.4	99.0	69.4	1.20 ± 0.70	—	—	1
20180923C	239.14	22.85	173.1	28.2	94.9	1.37 ± 0.55	—	—	1
20180923D	169.08	48.75	328.4	29.7	248.7	2.20 ± 1.30	$0.209^{+0.128}_{-0.156}$	$39.039^{+0.652}_{-1.629}$	1
20180924A	35.46	37.52	1114.5	67.2	997.3	3.50 ± 1.20	$1.180^{+0.206}_{-0.357}$	$40.898^{+0.280}_{-0.528}$	1
20180925A	74.93	77.99	236.2	69.1	117.1	8.70 ± 4.40	$0.041^{+0.093}_{-0.039}$	$38.160^{+1.240}_{-3.158}$	0
20180925B	145.45	20.99	668.0	39.8	578.2	2.70 ± 1.10	$0.649^{+0.160}_{-0.332}$	$40.210^{+0.362}_{-0.917}$	1
20180928A	312.95	30.85	250.7	156.0	44.7	2.50 ± 0.97	—	—	0
20181012B	206.33	64.15	713.3	31.6	631.7	1.44 ± 0.51	$0.712^{+0.167}_{-0.298}$	$40.027^{+0.335}_{-0.713}$	0
20181013A	262.83	38.41	308.9	47.7	211.2	3.50 ± 1.20	$0.158^{+0.121}_{-0.119}$	$38.978^{+0.660}_{-1.448}$	1
20181013B	97.18	52.04	284.7	93.0	141.7	21.00 ± 11.00	$0.069^{+0.105}_{-0.057}$	$38.999^{+1.029}_{-1.914}$	0
20181013C	146.07	34.10	1004.5	37.3	917.2	1.64 ± 0.88	$1.079^{+0.198}_{-0.345}$	$40.483^{+0.347}_{-0.705}$	1
20181013E	307.28	69.02	344.5	80.0	214.5	2.03 ± 0.53	$0.162^{+0.121}_{-0.122}$	$38.768^{+0.622}_{-1.395}$	0
20181014A	46.01	63.33	1311.8	183.6	1078.2	2.70 ± 1.50	$1.278^{+0.223}_{-0.399}$	$40.861^{+0.343}_{-0.710}$	1
20181014B	78.56	14.66	888.0	102.6	735.4	1.88 ± 0.59	$0.843^{+0.182}_{-0.335}$	$40.305^{+0.307}_{-0.655}$	1
20181014C	117.87	41.59	752.1	59.8	642.3	1.48 ± 0.55	$0.727^{+0.167}_{-0.303}$	$40.058^{+0.337}_{-0.723}$	0
20181014D	216.04	−2.93	376.9	29.8	297.1	18.00 ± 11.00	$0.270^{+0.143}_{-0.198}$	$40.192^{+0.612}_{-1.618}$	1
20181015A	175.76	83.58	567.7	45.4	472.3	3.40 ± 1.90	$0.505^{+0.155}_{-0.283}$	$40.066^{+0.452}_{-1.140}$	0
20181017B	237.76	78.50	304.1	40.4	213.7	6.50 ± 3.60	$0.161^{+0.121}_{-0.122}$	$39.267^{+0.716}_{-1.614}$	1
20181018A	17.03	51.55	1132.2	123.7	958.5	5.80 ± 3.20	$1.132^{+0.201}_{-0.341}$	$41.077^{+0.346}_{-0.693}$	0
20181018B	336.82	71.91	292.8	112.1	130.7	7.90 ± 5.20	$0.056^{+0.100}_{-0.049}$	$38.398^{+1.142}_{-2.306}$	1
20181018C	67.15	37.57	409.2	144.2	215.0	3.30 ± 1.40	$0.163^{+0.121}_{-0.123}$	$38.983^{+0.674}_{-1.503}$	1
20181019B	37.87	68.18	723.0	157.6	515.4	2.70 ± 1.10	$0.569^{+0.149}_{-0.313}$	$40.083^{+0.374}_{-0.992}$	0
20181019C	244.70	66.27	503.0	40.6	412.4	2.10 ± 1.20	$0.432^{+0.145}_{-0.275}$	$39.707^{+0.475}_{-1.325}$	0
20181020A	322.62	78.83	1111.2	70.9	990.3	4.90 ± 2.90	$1.171^{+0.205}_{-0.353}$	$41.037^{+0.355}_{-0.734}$	0
20181022C	141.56	83.81	528.9	50.3	428.6	3.20 ± 2.20	$0.451^{+0.149}_{-0.274}$	$39.932^{+0.504}_{-1.389}$	1
20181022D	179.18	36.53	512.7	18.5	444.2	6.20 ± 2.80	$0.470^{+0.152}_{-0.273}$	$40.258^{+0.432}_{-1.084}$	1
20181022E	221.18	27.13	286.3	22.1	214.2	2.08 ± 0.84	$0.162^{+0.121}_{-0.122}$	$38.776^{+0.670}_{-1.488}$	1
20181025A	105.78	64.25	590.4	59.5	480.9	2.68 ± 0.99	$0.518^{+0.153}_{-0.289}$	$39.987^{+0.388}_{-0.980}$	1
20181027A	131.90	−4.24	726.3	62.6	613.7	22.00 ± 15.00	$0.690^{+0.166}_{-0.294}$	$41.180^{+0.434}_{-1.033}$	1
20181030C	309.83	3.99	668.0	72.3	545.7	5.50 ± 3.60	$0.612^{+0.151}_{-0.331}$	$40.461^{+0.432}_{-1.210}$	0
20181030D	81.79	16.07	289.5	123.6	115.9	5.90 ± 1.90	$0.040^{+0.092}_{-0.039}$	$37.962^{+1.199}_{-3.303}$	1

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FRBs	RA [°]	Dec [°]	DM _{obs} [pc/cm ³]	DM _{MW} [pc/cm ³]	DM _E [pc/cm ³]	Fluence [Jy ms]	z_{inf}	$\log(E/\text{erg})$	flag
20181030E	135.67	8.89	158.5	48.7	59.8	6.30 ± 3.90	—	—	1
20181101A	21.26	53.88	1468.7	140.9	1277.8	10.70 ± 5.20	$1.527^{+0.261}_{-0.384}$	$41.627^{+0.319}_{-0.563}$	1
20181102A	87.22	15.63	415.7	156.9	208.8	2.52 ± 0.92	$0.154^{+0.121}_{-0.117}$	$38.815^{+0.675}_{-1.465}$	0
20181104C	77.05	17.44	580.7	105.2	425.5	20.70 ± 5.70	$0.448^{+0.149}_{-0.274}$	$40.735^{+0.382}_{-1.036}$	1
20181115A	142.98	56.40	981.8	40.2	891.6	1.92 ± 0.47	$1.045^{+0.198}_{-0.345}$	$40.521^{+0.261}_{-0.509}$	1
20181116A	36.05	4.52	354.2	35.9	268.3	5.23 ± 0.91	$0.234^{+0.135}_{-0.173}$	$39.519^{+0.501}_{-1.308}$	1
20181116B	232.66	64.94	409.2	35.7	323.5	1.92 ± 0.40	$0.304^{+0.146}_{-0.221}$	$39.331^{+0.457}_{-1.300}$	1
20181117A	147.73	52.51	960.8	39.6	871.2	3.10 ± 1.70	$1.017^{+0.198}_{-0.337}$	$40.703^{+0.360}_{-0.733}$	1
20181117B	81.09	79.99	540.2	67.0	423.2	11.00 ± 6.90	$0.445^{+0.148}_{-0.274}$	$40.454^{+0.489}_{-1.335}$	1
20181117C	53.21	25.73	1776.0	68.4	1657.6	3.00 ± 1.10	$2.026^{+0.305}_{-0.495}$	$41.336^{+0.263}_{-0.457}$	1
20181118A	20.65	−6.41	558.0	32.1	475.9	10.00 ± 5.00	$0.510^{+0.154}_{-0.286}$	$40.545^{+0.432}_{-1.084}$	0
20181118B	58.28	10.79	422.2	53.0	319.2	3.20 ± 1.90	$0.298^{+0.146}_{-0.217}$	$39.534^{+0.583}_{-1.590}$	1
20181119B	299.38	31.12	608.2	441.4	116.8	94.00 ± 38.00	$0.041^{+0.093}_{-0.039}$	$39.187^{+1.213}_{-3.138}$	0
20181119C	190.10	82.16	283.1	42.8	190.3	3.50 ± 1.60	$0.128^{+0.119}_{-0.098}$	$38.789^{+0.774}_{-1.554}$	1
20181119E	16.36	60.53	1169.5	220.0	899.5	2.20 ± 1.10	$1.055^{+0.198}_{-0.346}$	$40.589^{+0.340}_{-0.684}$	0
20181122A	60.04	55.48	661.6	194.9	416.7	1.42 ± 0.59	$0.437^{+0.146}_{-0.275}$	$39.548^{+0.429}_{-1.169}$	1
20181122B	281.08	85.02	224.8	53.4	121.4	22.00 ± 11.00	$0.046^{+0.095}_{-0.043}$	$38.661^{+1.186}_{-2.614}$	1
20181123A	300.76	55.87	797.4	102.5	644.9	2.50 ± 1.10	$0.730^{+0.167}_{-0.304}$	$40.290^{+0.357}_{-0.773}$	1
20181124A	175.98	63.52	1108.0	33.9	1024.1	2.60 ± 1.40	$1.213^{+0.211}_{-0.371}$	$40.795^{+0.339}_{-0.686}$	0
20181124B	318.56	29.88	800.7	104.0	646.7	4.80 ± 1.60	$0.732^{+0.167}_{-0.305}$	$40.576^{+0.323}_{-0.697}$	1
20181125A	147.94	33.93	278.2	44.0	184.2	3.20 ± 2.00	$0.120^{+0.119}_{-0.092}$	$38.687^{+0.849}_{-1.724}$	1
20181126A	262.05	81.17	493.3	48.7	394.6	9.40 ± 5.10	$0.411^{+0.140}_{-0.277}$	$40.309^{+0.471}_{-1.393}$	1
20181127A	243.80	25.43	930.1	32.0	848.1	2.90 ± 1.30	$0.986^{+0.198}_{-0.327}$	$40.644^{+0.336}_{-0.647}$	1
20181128B	157.22	38.28	454.5	31.5	373.0	1.95 ± 0.85	$0.380^{+0.138}_{-0.274}$	$39.552^{+0.456}_{-1.441}$	1
20181128C	268.77	49.71	614.6	45.4	519.2	3.40 ± 1.30	$0.575^{+0.149}_{-0.316}$	$40.192^{+0.364}_{-0.972}$	0
20181128D	215.62	59.93	147.2	33.4	63.8	7.00 ± 2.90	—	—	1
20181129A	355.12	44.95	386.6	87.4	249.2	3.10 ± 1.50	$0.210^{+0.128}_{-0.156}$	$39.191^{+0.621}_{-1.528}$	1
20181129B	307.56	81.32	406.0	62.2	293.8	9.50 ± 6.30	$0.266^{+0.143}_{-0.195}$	$39.899^{+0.630}_{-1.682}$	0
20181129C	233.38	40.03	503.0	27.3	425.7	3.60 ± 1.20	$0.448^{+0.149}_{-0.274}$	$39.976^{+0.402}_{-1.072}$	1
20181130A	355.19	46.49	218.4	93.4	75.0	1.27 ± 0.69	—	—	1
20181201A	214.96	39.27	698.7	28.3	620.4	18.90 ± 6.50	$0.698^{+0.167}_{-0.293}$	$41.125^{+0.336}_{-0.709}$	0
20181201B	273.38	56.31	875.1	49.8	775.3	2.24 ± 0.90	$0.888^{+0.194}_{-0.305}$	$40.431^{+0.337}_{-0.630}$	1
20181202A	351.01	17.36	669.6	40.4	579.2	13.70 ± 4.50	$0.650^{+0.160}_{-0.331}$	$40.917^{+0.337}_{-0.857}$	1
20181202B	202.83	64.72	826.5	34.3	742.2	4.10 ± 1.30	$0.850^{+0.184}_{-0.330}$	$40.652^{+0.308}_{-0.641}$	1
20181202C	307.13	57.03	558.0	127.3	380.7	3.40 ± 2.10	$0.392^{+0.138}_{-0.276}$	$39.822^{+0.499}_{-1.558}$	0
20181203A	33.60	23.57	635.7	46.5	539.2	3.60 ± 1.20	$0.604^{+0.149}_{-0.329}$	$40.265^{+0.339}_{-0.930}$	1
20181203B	47.31	24.02	373.6	54.9	268.7	4.50 ± 1.50	$0.234^{+0.135}_{-0.173}$	$39.456^{+0.556}_{-1.401}$	1
20181203C	198.48	72.94	2442.4	35.3	2357.1	4.80 ± 2.80	$3.003^{+0.443}_{-0.657}$	$41.893^{+0.320}_{-0.600}$	0
20181208A	264.43	62.62	561.3	43.7	467.6	4.00 ± 1.50	$0.498^{+0.155}_{-0.281}$	$40.124^{+0.400}_{-0.992}$	0
20181209A	98.16	68.69	328.4	65.4	213.0	3.20 ± 1.30	$0.160^{+0.121}_{-0.121}$	$38.954^{+0.674}_{-1.491}$	0
20181213A	127.66	73.87	677.7	47.6	580.1	3.20 ± 1.10	$0.651^{+0.160}_{-0.330}$	$40.287^{+0.341}_{-0.863}$	1
20181213B	183.52	53.70	626.0	30.0	546.0	1.70 ± 1.00	$0.612^{+0.151}_{-0.331}$	$39.952^{+0.415}_{-1.133}$	1

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20181213C	216.40	47.46	380.1	29.9	300.2	1.86 ± 0.99	$0.274^{+0.143}_{-0.200}$	$39.219^{+0.587}_{-1.537}$	0
20181214A	70.00	43.07	467.5	183.6	233.9	0.41 ± 0.17	$0.189^{+0.124}_{-0.142}$	$38.217^{+0.623}_{-1.484}$	1
20181214B	138.79	42.15	1120.9	42.2	1028.7	1.23 ± 0.41	$1.218^{+0.212}_{-0.373}$	$40.474^{+0.276}_{-0.527}$	0
20181214C	175.93	60.02	632.4	32.9	549.5	5.00 ± 1.60	$0.616^{+0.152}_{-0.332}$	$40.426^{+0.334}_{-0.912}$	1
20181214D	178.57	46.71	1171.1	19.8	1101.3	9.00 ± 4.30	$1.307^{+0.224}_{-0.411}$	$41.405^{+0.318}_{-0.643}$	0
20181214F	252.62	32.44	2106.0	40.5	2015.5	2.21 ± 0.86	$2.527^{+0.362}_{-0.562}$	$41.403^{+0.262}_{-0.442}$	0
20181215A	93.38	39.34	412.5	128.4	234.1	0.72 ± 0.20	$0.190^{+0.124}_{-0.142}$	$38.463^{+0.579}_{-1.393}$	0
20181215B	254.81	47.56	493.3	39.9	403.4	2.90 ± 1.50	$0.421^{+0.142}_{-0.276}$	$39.822^{+0.462}_{-1.320}$	1
20181216A	306.28	53.53	541.9	145.9	346.0	1.70 ± 1.10	$0.338^{+0.142}_{-0.247}$	$39.381^{+0.552}_{-1.662}$	0
20181217A	290.50	59.80	1175.9	68.5	1057.4	1.76 ± 0.63	$1.253^{+0.218}_{-0.388}$	$40.656^{+0.284}_{-0.548}$	1
20181218A	5.06	71.35	1873.1	145.9	1677.2	1.59 ± 0.98	$2.051^{+0.312}_{-0.503}$	$41.071^{+0.337}_{-0.676}$	1
20181218B	18.04	69.39	752.1	168.3	533.8	1.80 ± 1.50	$0.597^{+0.148}_{-0.326}$	$39.952^{+0.478}_{-1.536}$	0
20181218C	285.98	58.24	385.0	65.2	269.8	1.73 ± 0.73	$0.236^{+0.135}_{-0.174}$	$39.046^{+0.583}_{-1.462}$	0
20181219B	180.79	71.55	1950.7	35.8	1864.9	27.00 ± 22.00	$2.300^{+0.357}_{-0.511}$	$42.405^{+0.388}_{-0.962}$	1
20181219C	17.77	14.11	648.6	36.9	561.7	0.57 ± 0.19	$0.630^{+0.156}_{-0.337}$	$39.505^{+0.339}_{-0.910}$	1
20181220A	346.11	48.43	208.7	125.1	33.6	3.00 ± 1.70	—	—	1
20181220B	277.37	84.87	257.2	53.0	154.2	3.80 ± 2.60	$0.082^{+0.111}_{-0.066}$	$38.424^{+1.008}_{-1.942}$	1
20181221A	230.58	25.86	313.8	22.0	241.8	5.80 ± 2.00	$0.201^{+0.125}_{-0.150}$	$39.421^{+0.586}_{-1.432}$	1
20181221B	306.31	80.98	1392.7	59.6	1283.1	3.30 ± 1.70	$1.533^{+0.263}_{-0.384}$	$41.119^{+0.328}_{-0.587}$	1
20181222B	90.04	38.55	619.5	148.5	421.0	0.83 ± 0.51	$0.442^{+0.147}_{-0.275}$	$39.326^{+0.486}_{-1.330}$	0
20181222C	131.05	68.33	1104.8	46.3	1008.5	2.90 ± 1.30	$1.194^{+0.207}_{-0.363}$	$40.827^{+0.313}_{-0.606}$	0
20181222D	188.20	56.16	1413.7	27.8	1335.9	1.23 ± 0.82	$1.588^{+0.283}_{-0.384}$	$40.724^{+0.374}_{-0.738}$	0
20181222E	50.64	86.97	328.4	60.3	218.1	5.50 ± 3.20	$0.167^{+0.121}_{-0.126}$	$39.229^{+0.710}_{-1.639}$	1
20181223B	174.89	21.59	564.5	24.3	490.2	4.10 ± 1.10	$0.532^{+0.152}_{-0.296}$	$40.197^{+0.347}_{-0.911}$	1
20181223C	181.05	27.58	111.6	19.0	42.6	2.84 ± 0.93	—	—	1
20181224A	355.11	44.56	308.9	83.7	175.2	3.30 ± 1.80	$0.107^{+0.118}_{-0.083}$	$38.599^{+0.875}_{-1.658}$	1
20181224B	45.36	46.14	779.6	119.9	609.7	3.10 ± 1.70	$0.686^{+0.165}_{-0.298}$	$40.322^{+0.399}_{-0.897}$	1
20181224C	115.29	60.28	608.2	67.2	491.0	9.60 ± 3.20	$0.533^{+0.152}_{-0.296}$	$40.569^{+0.368}_{-0.951}$	0
20181224D	182.45	54.85	690.7	31.9	608.8	1.95 ± 0.98	$0.684^{+0.165}_{-0.299}$	$40.119^{+0.386}_{-0.858}$	0
20181224E	239.32	7.32	580.7	35.4	495.3	10.30 ± 4.90	$0.539^{+0.151}_{-0.299}$	$40.611^{+0.408}_{-1.054}$	1
20181225B	36.77	88.20	299.2	58.2	191.0	7.50 ± 3.80	$0.129^{+0.120}_{-0.099}$	$39.127^{+0.785}_{-1.594}$	1
20181226B	182.66	12.43	287.9	28.6	209.3	52.00 ± 17.00	$0.155^{+0.121}_{-0.117}$	$40.134^{+0.661}_{-1.439}$	1
20181226C	349.05	44.94	409.2	94.2	265.0	2.70 ± 1.40	$0.230^{+0.134}_{-0.170}$	$39.215^{+0.616}_{-1.545}$	1
20181226D	120.22	22.16	386.6	66.2	270.4	3.00 ± 1.40	$0.237^{+0.136}_{-0.175}$	$39.289^{+0.596}_{-1.497}$	1
20181226E	303.56	73.64	308.9	69.0	189.9	1.35 ± 0.77	$0.128^{+0.119}_{-0.098}$	$38.371^{+0.808}_{-1.656}$	1
20181227A	31.79	78.38	791.0	88.8	652.2	1.82 ± 0.91	$0.740^{+0.167}_{-0.308}$	$40.165^{+0.373}_{-0.821}$	0
20181228A	7.26	10.22	748.9	34.4	664.5	4.00 ± 2.10	$0.756^{+0.168}_{-0.313}$	$40.528^{+0.377}_{-0.841}$	1
20181228B	250.43	63.85	566.1	37.4	478.7	1.67 ± 0.77	$0.514^{+0.154}_{-0.288}$	$39.775^{+0.418}_{-1.050}$	1
20181228C	265.19	54.36	509.5	44.4	415.1	0.74 ± 0.25	$0.435^{+0.146}_{-0.275}$	$39.261^{+0.405}_{-1.123}$	0
20181229A	137.18	42.01	955.9	43.3	862.6	4.00 ± 1.30	$1.006^{+0.198}_{-0.333}$	$40.803^{+0.294}_{-0.559}$	1
20181229B	238.37	19.78	375.3	15.6	309.7	4.90 ± 3.40	$0.286^{+0.145}_{-0.208}$	$39.680^{+0.620}_{-1.716}$	0
20181230A	346.69	83.37	763.5	62.3	651.2	18.00 ± 10.00	$0.738^{+0.167}_{-0.307}$	$41.158^{+0.389}_{-0.872}$	0

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20181230B	20.83	79.70	1135.5	83.1	1002.4	9.70 ± 4.80	$1.186^{+0.207}_{-0.360}$	$41.345^{+0.327}_{-0.643}$	1
20181230C	245.75	50.52	1036.8	36.5	950.3	2.10 ± 1.20	$1.121^{+0.200}_{-0.342}$	$40.627^{+0.352}_{-0.718}$	1
20181230D	255.30	50.51	224.8	41.4	133.4	2.00 ± 1.20	$0.059^{+0.101}_{-0.051}$	$37.848^{+1.106}_{-2.159}$	1
20181230E	113.26	86.85	1041.7	54.5	937.2	10.40 ± 5.70	$1.105^{+0.198}_{-0.344}$	$41.308^{+0.347}_{-0.703}$	1
20181231A	29.71	20.96	1376.5	42.8	1283.7	2.20 ± 1.10	$1.534^{+0.263}_{-0.384}$	$40.944^{+0.323}_{-0.573}$	1
20181231B	128.77	55.99	199.0	48.7	100.3	2.34 ± 0.73	$0.022^{+0.084}_{-0.021}$	$37.052^{+1.510}_{-2.867}$	1
20181231C	197.09	69.18	554.8	34.2	470.6	1.20 ± 0.54	$0.502^{+0.155}_{-0.282}$	$39.609^{+0.422}_{-1.045}$	1
20190101A	171.01	27.99	867.0	36.7	780.3	11.30 ± 3.40	$0.893^{+0.195}_{-0.301}$	$41.140^{+0.304}_{-0.553}$	0
20190101B	307.77	29.89	1321.5	231.6	1039.9	4.40 ± 2.50	$1.232^{+0.214}_{-0.379}$	$41.038^{+0.347}_{-0.717}$	1
20190102A	9.26	26.72	697.1	41.5	605.6	4.20 ± 1.70	$0.681^{+0.165}_{-0.303}$	$40.447^{+0.357}_{-0.793}$	1
20190102B	21.66	21.39	367.2	41.1	276.1	3.90 ± 1.70	$0.244^{+0.138}_{-0.179}$	$39.430^{+0.583}_{-1.468}$	1
20190103B	93.57	19.73	530.5	176.5	304.0	12.90 ± 6.90	$0.279^{+0.144}_{-0.203}$	$40.077^{+0.583}_{-1.537}$	1
20190103C	104.19	11.07	1349.0	155.4	1143.6	13.40 ± 7.10	$1.360^{+0.224}_{-0.385}$	$41.616^{+0.328}_{-0.645}$	1
20190103D	221.84	59.91	1911.9	31.6	1830.3	1.17 ± 0.44	$2.257^{+0.346}_{-0.507}$	$41.025^{+0.267}_{-0.438}$	0
20190103E	262.89	45.84	736.0	45.4	640.6	2.00 ± 1.10	$0.724^{+0.167}_{-0.302}$	$40.185^{+0.391}_{-0.869}$	0
20190104A	70.50	35.59	548.3	150.4	347.9	3.90 ± 1.90	$0.341^{+0.141}_{-0.249}$	$39.750^{+0.505}_{-1.501}$	1
20190104B	234.72	-6.25	527.3	47.0	430.3	9.50 ± 5.60	$0.453^{+0.150}_{-0.274}$	$40.409^{+0.477}_{-1.263}$	0
20190105A	266.30	63.82	385.0	47.8	287.2	3.50 ± 1.50	$0.258^{+0.142}_{-0.189}$	$39.436^{+0.572}_{-1.456}$	0
20190106A	22.19	46.12	341.3	90.1	201.2	0.81 ± 0.45	$0.144^{+0.120}_{-0.109}$	$38.257^{+0.758}_{-1.627}$	0
20190106B	335.63	46.13	315.4	140.5	124.9	3.80 ± 2.40	$0.050^{+0.097}_{-0.045}$	$37.972^{+1.187}_{-2.513}$	1
20190107A	0.86	21.81	841.1	31.8	759.3	6.30 ± 3.90	$0.870^{+0.189}_{-0.317}$	$40.860^{+0.399}_{-0.858}$	0
20190107B	33.45	83.40	166.6	70.5	46.1	4.30 ± 2.50	—	—	1
20190109A	107.96	5.16	325.1	148.2	126.9	6.40 ± 2.60	$0.052^{+0.098}_{-0.047}$	$38.237^{+1.103}_{-2.208}$	0
20190109B	253.47	1.25	176.3	69.4	56.9	3.00 ± 1.70	—	—	0
20190110A	64.95	47.44	470.7	186.5	234.2	3.80 ± 2.30	$0.190^{+0.124}_{-0.142}$	$39.186^{+0.677}_{-1.655}$	1
20190110B	131.68	50.16	486.9	46.3	390.6	1.90 ± 1.40	$0.406^{+0.139}_{-0.277}$	$39.603^{+0.523}_{-1.658}$	1
20190110C	246.98	41.42	221.6	35.3	136.3	1.40 ± 0.76	$0.062^{+0.102}_{-0.053}$	$37.741^{+1.069}_{-2.032}$	1
20190111A	217.00	26.78	173.1	22.6	100.5	17.00 ± 7.20	$0.022^{+0.084}_{-0.021}$	$37.922^{+1.540}_{-2.953}$	1
20190111B	260.02	13.53	1334.4	62.6	1221.8	0.78 ± 0.28	$1.461^{+0.247}_{-0.379}$	$40.448^{+0.279}_{-0.478}$	1
20190112A	257.98	61.20	420.5	36.7	333.8	16.20 ± 6.40	$0.320^{+0.144}_{-0.233}$	$40.306^{+0.501}_{-1.422}$	0
20190113A	108.14	-2.99	430.3	180.3	200.0	5.60 ± 3.40	$0.142^{+0.120}_{-0.108}$	$39.086^{+0.777}_{-1.682}$	0
20190114A	8.95	19.17	889.6	40.3	799.3	2.30 ± 1.40	$0.918^{+0.198}_{-0.304}$	$40.475^{+0.394}_{-0.796}$	0
20190115A	45.61	54.28	1020.6	185.3	785.3	0.95 ± 0.56	$0.899^{+0.197}_{-0.298}$	$40.071^{+0.392}_{-0.776}$	0
20190115B	76.82	82.06	748.9	64.4	634.5	5.20 ± 3.10	$0.716^{+0.167}_{-0.299}$	$40.589^{+0.406}_{-0.917}$	1
20190116C	249.32	70.96	629.2	41.8	537.4	65.00 ± 26.00	$0.602^{+0.149}_{-0.328}$	$41.518^{+0.360}_{-0.977}$	1
20190116D	85.10	68.68	1161.4	75.9	1035.5	4.70 ± 1.70	$1.227^{+0.213}_{-0.377}$	$41.063^{+0.286}_{-0.547}$	0
20190116E	19.36	52.32	1489.7	127.1	1312.6	1.12 ± 0.75	$1.564^{+0.274}_{-0.384}$	$40.669^{+0.372}_{-0.747}$	0
20190116F	261.67	75.00	315.4	45.3	220.1	1.54 ± 0.62	$0.170^{+0.122}_{-0.128}$	$38.692^{+0.652}_{-1.483}$	1
20190117C	115.13	74.59	865.4	52.8	762.6	0.79 ± 0.22	$0.873^{+0.190}_{-0.315}$	$39.963^{+0.296}_{-0.574}$	0
20190117D	208.87	31.68	1175.9	20.4	1105.5	3.50 ± 1.50	$1.312^{+0.224}_{-0.413}$	$40.998^{+0.303}_{-0.605}$	1
20190118A	253.31	11.55	224.8	53.1	121.7	18.00 ± 6.60	$0.046^{+0.095}_{-0.043}$	$38.581^{+1.143}_{-2.487}$	1
20190118B	39.71	23.57	666.4	45.7	570.7	3.62 ± 0.99	$0.641^{+0.159}_{-0.340}$	$40.324^{+0.319}_{-0.866}$	0

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20190121A	354.74	78.60	423.8	85.8	288.0	10.80 ± 6.30	$0.259^{+0.142}_{-0.190}$	$39.929^{+0.616}_{-1.593}$	1
20190122A	349.56	37.50	1229.3	62.7	1116.6	5.70 ± 2.80	$1.326^{+0.224}_{-0.408}$	$41.220^{+0.320}_{-0.645}$	0
20190122B	2.53	35.12	467.5	52.4	365.1	1.75 ± 0.76	$0.368^{+0.139}_{-0.269}$	$39.473^{+0.465}_{-1.466}$	0
20190122C	200.60	17.57	690.7	25.2	615.5	47.00 ± 30.00	$0.692^{+0.166}_{-0.292}$	$41.512^{+0.422}_{-0.971}$	1
20190124A	50.46	51.58	1274.6	175.3	1049.3	13.40 ± 9.30	$1.243^{+0.216}_{-0.384}$	$41.531^{+0.380}_{-0.868}$	0
20190124B	214.69	28.80	443.2	23.4	369.8	11.70 ± 4.40	$0.375^{+0.139}_{-0.273}$	$40.317^{+0.441}_{-1.421}$	1
20190124C	217.17	28.38	302.5	20.3	232.2	13.70 ± 7.70	$0.187^{+0.123}_{-0.140}$	$39.729^{+0.670}_{-1.611}$	1
20190124D	237.26	81.23	341.3	46.8	244.5	1.90 ± 1.10	$0.204^{+0.126}_{-0.152}$	$38.952^{+0.653}_{-1.621}$	0
20190124E	297.75	20.57	614.6	388.8	175.8	7.30 ± 4.90	$0.108^{+0.118}_{-0.083}$	$38.951^{+0.906}_{-1.798}$	1
20190124F	338.92	5.30	253.9	36.7	167.2	6.40 ± 3.20	$0.097^{+0.117}_{-0.076}$	$38.796^{+0.903}_{-1.647}$	1
20190125A	45.73	27.81	562.9	58.6	454.3	2.60 ± 1.20	$0.482^{+0.153}_{-0.275}$	$39.906^{+0.431}_{-1.073}$	0
20190125B	231.45	50.54	177.9	32.9	95.0	4.70 ± 2.70	—	—	0
20190127B	150.92	83.56	666.4	51.8	564.6	11.40 ± 5.80	$0.633^{+0.157}_{-0.338}$	$40.811^{+0.393}_{-1.040}$	0
20190128A	21.80	24.67	695.5	43.0	602.5	2.00 ± 1.00	$0.677^{+0.164}_{-0.306}$	$40.120^{+0.386}_{-0.881}$	0
20190128B	127.44	23.29	247.5	56.5	141.0	1.64 ± 0.47	$0.068^{+0.105}_{-0.057}$	$37.882^{+0.960}_{-1.750}$	1
20190128C	69.80	78.94	304.1	64.8	189.3	5.90 ± 4.20	$0.127^{+0.119}_{-0.097}$	$39.006^{+0.848}_{-1.830}$	0
20190128D	283.32	17.44	428.6	231.2	147.4	3.60 ± 2.80	$0.075^{+0.108}_{-0.061}$	$38.313^{+1.064}_{-2.166}$	0
20190129A	45.06	21.42	478.8	46.1	382.7	5.00 ± 3.10	$0.395^{+0.138}_{-0.277}$	$39.997^{+0.498}_{-1.548}$	0
20190130A	25.64	13.16	1365.2	35.1	1280.1	4.40 ± 1.80	$1.530^{+0.262}_{-0.384}$	$41.242^{+0.296}_{-0.502}$	0
20190130B	172.11	16.05	988.3	29.0	909.3	2.95 ± 0.94	$1.068^{+0.198}_{-0.345}$	$40.729^{+0.282}_{-0.543}$	1
20190131B	354.72	11.71	1801.9	31.8	1720.1	3.30 ± 1.30	$2.106^{+0.325}_{-0.523}$	$41.412^{+0.274}_{-0.480}$	1
20190131C	166.45	10.43	506.3	31.5	424.8	2.10 ± 1.60	$0.447^{+0.148}_{-0.274}$	$39.739^{+0.523}_{-1.523}$	1
20190131D	57.46	22.75	642.1	67.5	524.6	6.80 ± 3.70	$0.583^{+0.149}_{-0.320}$	$40.507^{+0.409}_{-1.102}$	1
20190131E	195.65	80.92	279.8	43.3	186.5	5.10 ± 3.40	$0.123^{+0.119}_{-0.094}$	$38.914^{+0.849}_{-1.771}$	1
20190201A	64.03	84.84	241.0	61.4	129.6	3.10 ± 1.60	$0.055^{+0.099}_{-0.048}$	$37.972^{+1.112}_{-2.191}$	0
20190201B	118.20	55.58	748.9	53.9	645.0	2.30 ± 1.20	$0.730^{+0.167}_{-0.304}$	$40.254^{+0.381}_{-0.841}$	1
20190202A	344.20	17.10	305.7	39.1	216.6	95.00 ± 41.00	$0.165^{+0.121}_{-0.124}$	$40.455^{+0.671}_{-1.507}$	1
20190202B	114.32	32.45	464.2	69.4	344.8	2.70 ± 1.30	$0.337^{+0.142}_{-0.245}$	$39.577^{+0.508}_{-1.495}$	0
20190203A	133.68	70.82	418.9	44.2	324.7	4.00 ± 1.90	$0.306^{+0.145}_{-0.222}$	$39.655^{+0.541}_{-1.479}$	1
20190203B	130.64	61.89	580.7	44.3	486.4	0.93 ± 0.48	$0.526^{+0.152}_{-0.293}$	$39.543^{+0.427}_{-1.093}$	0
20190203C	196.01	2.48	370.4	29.6	290.8	4.40 ± 3.00	$0.262^{+0.142}_{-0.192}$	$39.552^{+0.639}_{-1.709}$	0
20190204A	161.33	61.53	448.0	34.5	363.5	1.50 ± 0.70	$0.365^{+0.139}_{-0.267}$	$39.400^{+0.476}_{-1.491}$	0
20190204B	255.92	75.87	1463.8	44.4	1369.4	4.40 ± 1.80	$1.638^{+0.280}_{-0.406}$	$41.306^{+0.295}_{-0.497}$	1
20190205A	342.22	83.37	693.9	66.2	577.7	1.70 ± 0.74	$0.649^{+0.160}_{-0.333}$	$40.008^{+0.370}_{-0.940}$	0
20190206A	244.85	9.36	187.6	40.7	96.9	9.10 ± 7.00	—	—	1
20190206B	49.76	79.50	355.8	81.8	224.0	9.60 ± 6.30	$0.176^{+0.122}_{-0.132}$	$39.516^{+0.714}_{-1.721}$	0
20190206C	200.45	74.39	1044.9	40.2	954.7	3.80 ± 2.00	$1.127^{+0.200}_{-0.341}$	$40.890^{+0.339}_{-0.672}$	0
20190208B	91.00	80.88	713.3	59.7	603.6	14.30 ± 6.30	$0.678^{+0.164}_{-0.305}$	$40.976^{+0.368}_{-0.828}$	1
20190208C	141.55	83.56	237.8	49.1	138.7	1.74 ± 0.88	$0.065^{+0.104}_{-0.055}$	$37.873^{+1.042}_{-1.950}$	1
20190210B	104.18	23.70	622.7	115.0	457.7	5.30 ± 1.50	$0.486^{+0.153}_{-0.277}$	$40.223^{+0.374}_{-0.944}$	1
20190210C	295.75	89.10	642.1	54.0	538.1	3.60 ± 1.20	$0.603^{+0.149}_{-0.328}$	$40.263^{+0.339}_{-0.931}$	1
20190210D	307.80	55.46	357.5	139.6	167.9	2.50 ± 0.47	$0.098^{+0.117}_{-0.076}$	$38.395^{+0.798}_{-1.433}$	0

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20190210E	313.65	86.67	580.7	58.0	472.7	1.45 ± 0.29	$0.505^{+0.155}_{-0.283}$	$39.697^{+0.338}_{-0.881}$	0
20190211A	67.06	68.64	1188.9	104.5	1034.4	5.80 ± 1.60	$1.225^{+0.213}_{-0.376}$	$41.153^{+0.257}_{-0.492}$	1
20190211B	299.62	61.37	260.4	84.2	126.2	1.35 ± 0.38	$0.051^{+0.097}_{-0.046}$	$37.548^{+1.069}_{-2.157}$	1
20190212B	139.99	52.11	600.1	41.1	509.0	3.70 ± 1.70	$0.560^{+0.149}_{-0.309}$	$40.203^{+0.393}_{-1.034}$	1
20190212C	172.57	28.14	1012.6	18.5	944.1	12.20 ± 3.50	$1.114^{+0.199}_{-0.343}$	$41.385^{+0.266}_{-0.501}$	0
20190212D	178.83	66.72	1145.2	40.8	1054.4	5.70 ± 3.70	$1.249^{+0.217}_{-0.387}$	$41.164^{+0.369}_{-0.810}$	0
20190213C	64.26	45.00	357.5	176.4	131.1	1.09 ± 0.59	$0.057^{+0.100}_{-0.050}$	$37.545^{+1.107}_{-2.165}$	0
20190213D	336.45	52.71	1344.1	231.8	1062.3	2.20 ± 1.20	$1.259^{+0.219}_{-0.391}$	$40.758^{+0.341}_{-0.698}$	1
20190214A	96.09	66.24	498.2	70.3	377.9	8.80 ± 2.30	$0.388^{+0.138}_{-0.276}$	$40.225^{+0.394}_{-1.291}$	0
20190214C	218.87	19.36	533.8	22.8	461.0	5.20 ± 2.20	$0.490^{+0.154}_{-0.278}$	$40.223^{+0.417}_{-1.035}$	1
20190215B	335.04	45.34	273.4	135.0	88.4	5.60 ± 2.50	—	—	1
20190217A	94.88	43.11	797.4	110.0	637.4	1.19 ± 0.39	$0.720^{+0.167}_{-0.301}$	$39.954^{+0.325}_{-0.695}$	1
20190217B	22.58	26.95	847.6	47.2	750.4	6.00 ± 2.20	$0.860^{+0.187}_{-0.324}$	$40.828^{+0.325}_{-0.656}$	0
20190218A	184.05	56.42	1282.7	29.0	1203.7	1.65 ± 0.71	$1.438^{+0.242}_{-0.378}$	$40.758^{+0.301}_{-0.534}$	1
20190218B	268.70	17.93	549.9	83.6	416.3	5.90 ± 1.60	$0.437^{+0.146}_{-0.275}$	$40.166^{+0.383}_{-1.075}$	0
20190218C	156.96	77.95	318.6	43.0	225.6	31.00 ± 18.00	$0.178^{+0.122}_{-0.134}$	$40.037^{+0.689}_{-1.633}$	1
20190219A	105.78	43.13	655.1	76.7	528.4	0.96 ± 0.22	$0.589^{+0.149}_{-0.322}$	$39.666^{+0.307}_{-0.872}$	1
20190219B	246.30	57.92	1675.7	32.3	1593.4	14.40 ± 3.40	$1.947^{+0.294}_{-0.469}$	$41.980^{+0.220}_{-0.373}$	0
20190219C	349.67	49.21	805.5	122.9	632.6	1.96 ± 0.86	$0.714^{+0.167}_{-0.298}$	$40.162^{+0.361}_{-0.774}$	0
20190220A	237.21	74.16	215.1	39.9	125.2	0.68 ± 0.44	$0.050^{+0.097}_{-0.045}$	$37.230^{+1.188}_{-2.515}$	0
20190221A	132.60	9.90	224.8	53.9	120.9	2.33 ± 0.30	$0.045^{+0.095}_{-0.042}$	$37.676^{+1.069}_{-2.416}$	1
20190221B	286.77	27.86	394.7	167.1	177.6	5.60 ± 1.40	$0.111^{+0.119}_{-0.085}$	$38.857^{+0.769}_{-1.436}$	1
20190221C	316.15	54.67	2038.0	216.3	1771.7	7.10 ± 1.60	$2.182^{+0.330}_{-0.515}$	$41.777^{+0.215}_{-0.358}$	0
20190221D	24.81	60.93	473.9	189.7	234.2	1.13 ± 0.20	$0.190^{+0.124}_{-0.142}$	$38.659^{+0.543}_{-1.336}$	0
20190222B	160.69	19.62	498.2	33.8	414.4	4.40 ± 1.80	$0.434^{+0.145}_{-0.275}$	$40.033^{+0.428}_{-1.176}$	0
20190222C	239.18	40.03	522.5	28.0	444.5	0.83 ± 0.14	$0.470^{+0.152}_{-0.273}$	$39.386^{+0.338}_{-0.902}$	1
20190222D	313.90	26.57	894.5	114.8	729.7	0.86 ± 0.28	$0.836^{+0.180}_{-0.337}$	$39.958^{+0.311}_{-0.671}$	0
20190223A	64.72	87.65	389.8	58.7	281.1	1.58 ± 0.74	$0.250^{+0.140}_{-0.184}$	$39.062^{+0.588}_{-1.491}$	1
20190223B	311.62	60.56	535.4	123.6	361.8	0.84 ± 0.20	$0.363^{+0.139}_{-0.265}$	$39.141^{+0.405}_{-1.335}$	0
20190224A	60.53	83.39	821.7	68.8	702.9	8.50 ± 3.10	$0.806^{+0.173}_{-0.330}$	$40.917^{+0.322}_{-0.707}$	0
20190224B	268.24	82.57	839.5	51.5	738.0	4.50 ± 2.60	$0.846^{+0.183}_{-0.334}$	$40.687^{+0.387}_{-0.860}$	0
20190224C	124.05	19.78	495.0	57.5	387.5	7.90 ± 3.80	$0.402^{+0.138}_{-0.278}$	$40.213^{+0.455}_{-1.383}$	1
20190224D	331.89	89.05	752.1	55.4	646.7	6.10 ± 2.00	$0.732^{+0.167}_{-0.305}$	$40.680^{+0.322}_{-0.693}$	1
20190224E	183.04	61.54	435.1	32.3	352.8	4.00 ± 0.81	$0.349^{+0.141}_{-0.254}$	$39.782^{+0.405}_{-1.311}$	1
20190226A	58.83	31.93	600.1	89.8	460.3	1.42 ± 0.43	$0.489^{+0.154}_{-0.278}$	$39.657^{+0.379}_{-0.953}$	0
20190226B	273.57	61.81	630.8	49.9	530.9	2.38 ± 0.70	$0.593^{+0.148}_{-0.324}$	$40.067^{+0.328}_{-0.910}$	0
20190226C	17.46	26.76	826.5	43.2	733.3	1.41 ± 0.35	$0.840^{+0.182}_{-0.337}$	$40.177^{+0.285}_{-0.620}$	0
20190227A	108.41	56.34	393.1	62.5	280.6	12.50 ± 2.10	$0.249^{+0.139}_{-0.183}$	$39.958^{+0.489}_{-1.297}$	1
20190227B	220.54	39.80	331.6	24.3	257.3	0.71 ± 0.15	$0.220^{+0.131}_{-0.163}$	$38.595^{+0.525}_{-1.337}$	0
20190228A	183.48	22.90	439.9	41.0	348.9	35.80 ± 4.60	$0.343^{+0.141}_{-0.250}$	$40.717^{+0.384}_{-1.271}$	0
20190228B	50.01	81.94	1125.8	81.9	993.9	66.00 ± 32.00	$1.175^{+0.205}_{-0.355}$	$42.170^{+0.324}_{-0.633}$	0
20190301B	69.50	74.08	619.5	81.0	488.5	0.85 ± 0.36	$0.529^{+0.152}_{-0.294}$	$39.509^{+0.398}_{-1.016}$	0

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20190301C	171.83	34.93	805.5	23.1	732.4	2.32 ± 0.52	$0.839^{+0.181}_{-0.338}$	$40.392^{+0.276}_{-0.608}$	0
20190301D	278.72	74.68	1159.7	52.1	1057.6	1.50 ± 0.21	$1.253^{+0.218}_{-0.388}$	$40.587^{+0.208}_{-0.421}$	0
20190302A	34.80	61.34	1009.3	195.8	763.5	35.00 ± 13.00	$0.874^{+0.191}_{-0.314}$	$41.610^{+0.327}_{-0.632}$	0
20190303B	128.74	66.03	192.5	46.1	96.4	42.00 ± 19.00	—	—	1
20190303C	173.24	26.32	1088.6	22.0	1016.6	3.46 ± 0.46	$1.204^{+0.209}_{-0.367}$	$40.912^{+0.206}_{-0.411}$	1
20190303D	179.57	70.84	710.1	36.0	624.1	1.17 ± 0.67	$0.702^{+0.167}_{-0.294}$	$39.923^{+0.403}_{-0.894}$	0
20190304A	124.51	74.61	483.6	49.7	383.9	2.90 ± 1.10	$0.397^{+0.138}_{-0.277}$	$39.765^{+0.427}_{-1.328}$	1
20190304B	204.86	24.19	470.7	23.3	397.4	2.22 ± 0.59	$0.414^{+0.141}_{-0.277}$	$39.690^{+0.384}_{-1.171}$	1
20190304C	223.01	26.72	564.5	21.6	492.9	1.32 ± 0.13	$0.536^{+0.151}_{-0.298}$	$39.713^{+0.282}_{-0.819}$	0
20190307A	254.55	9.85	352.6	55.3	247.3	—	$0.208^{+0.127}_{-0.155}$	—	0
20190307B	269.20	38.40	291.1	52.0	189.1	—	$0.127^{+0.119}_{-0.097}$	—	0
20190308B	38.59	83.62	179.5	68.0	61.5	1.39 ± 0.85	—	—	0
20190308C	188.36	44.39	498.2	20.8	427.4	4.80 ± 2.50	$0.450^{+0.149}_{-0.274}$	$40.105^{+0.459}_{-1.208}$	1
20190309A	278.96	52.41	357.5	59.2	248.3	0.72 ± 0.44	$0.209^{+0.128}_{-0.155}$	$38.552^{+0.658}_{-1.652}$	0
20190313B	101.98	74.13	1192.1	60.7	1081.4	2.74 ± 0.78	$1.282^{+0.223}_{-0.400}$	$40.870^{+0.260}_{-0.504}$	1
20190316A	5.23	20.51	516.0	39.0	427.0	2.53 ± 0.82	$0.449^{+0.149}_{-0.274}$	$39.826^{+0.398}_{-1.060}$	1
20190317A	87.44	44.66	1156.5	137.2	969.3	1.24 ± 0.44	$1.145^{+0.202}_{-0.342}$	$40.418^{+0.286}_{-0.531}$	0
20190317B	101.01	49.73	425.4	81.7	293.7	1.89 ± 0.46	$0.266^{+0.143}_{-0.195}$	$39.198^{+0.504}_{-1.331}$	0
20190317C	125.82	32.07	601.7	57.0	494.7	7.80 ± 2.80	$0.538^{+0.151}_{-0.299}$	$40.489^{+0.373}_{-0.967}$	0
20190317E	274.37	13.25	800.7	134.1	616.6	7.30 ± 1.80	$0.693^{+0.166}_{-0.292}$	$40.705^{+0.304}_{-0.651}$	1
20190317F	236.25	47.05	1125.8	41.0	1034.8	26.00 ± 14.00	$1.226^{+0.213}_{-0.377}$	$41.805^{+0.339}_{-0.688}$	1
20190318A	324.11	74.46	420.5	86.6	283.9	14.20 ± 2.80	$0.253^{+0.141}_{-0.186}$	$40.029^{+0.498}_{-1.310}$	1
20190319A	113.43	5.72	2041.3	109.0	1882.3	19.40 ± 4.20	$2.325^{+0.359}_{-0.516}$	$42.271^{+0.214}_{-0.335}$	1
20190320A	61.60	63.36	613.0	142.8	420.2	4.40 ± 1.40	$0.441^{+0.147}_{-0.275}$	$40.049^{+0.398}_{-1.086}$	1
20190320B	250.40	39.63	490.1	38.3	401.8	1.90 ± 0.34	$0.419^{+0.142}_{-0.276}$	$39.634^{+0.353}_{-1.098}$	1
20190320C	254.73	22.38	367.2	45.5	271.7	3.14 ± 0.65	$0.238^{+0.136}_{-0.176}$	$39.315^{+0.511}_{-1.323}$	0
20190320D	262.22	59.07	1151.7	54.2	1047.5	11.40 ± 1.60	$1.241^{+0.216}_{-0.383}$	$41.459^{+0.209}_{-0.419}$	0
20190320E	76.64	89.16	299.2	55.9	193.3	12.30 ± 4.50	$0.133^{+0.120}_{-0.101}$	$39.365^{+0.733}_{-1.482}$	1
20190322A	110.75	51.30	1054.6	58.1	946.5	10.10 ± 3.20	$1.117^{+0.199}_{-0.342}$	$41.305^{+0.276}_{-0.518}$	0
20190322B	132.03	73.34	577.4	47.4	480.0	2.04 ± 0.90	$0.516^{+0.153}_{-0.289}$	$39.866^{+0.411}_{-1.033}$	0
20190322C	296.36	70.70	1192.1	65.8	1076.3	13.00 ± 5.50	$1.276^{+0.222}_{-0.398}$	$41.542^{+0.305}_{-0.597}$	1
20190323A	112.37	34.46	855.7	71.0	734.7	2.71 ± 0.79	$0.842^{+0.182}_{-0.336}$	$40.463^{+0.299}_{-0.643}$	1
20190323B	193.22	77.24	787.7	38.4	699.3	10.60 ± 1.40	$0.802^{+0.172}_{-0.330}$	$41.008^{+0.241}_{-0.573}$	1
20190323C	199.50	40.07	380.1	22.6	307.5	1.38 ± 0.24	$0.283^{+0.144}_{-0.206}$	$39.121^{+0.463}_{-1.286}$	0
20190323D	56.88	46.93	760.2	158.9	551.3	2.49 ± 0.87	$0.618^{+0.153}_{-0.333}$	$40.127^{+0.344}_{-0.930}$	0
20190325A	130.41	83.07	357.5	49.2	258.3	4.60 ± 1.70	$0.221^{+0.131}_{-0.164}$	$39.412^{+0.577}_{-1.433}$	1
20190325B	183.92	30.32	1730.7	16.6	1664.1	3.81 ± 0.77	$2.034^{+0.308}_{-0.498}$	$41.443^{+0.208}_{-0.357}$	0
20190325C	53.85	60.17	799.0	189.6	559.4	3.83 ± 0.89	$0.627^{+0.155}_{-0.336}$	$40.328^{+0.305}_{-0.851}$	0
20190326A	161.90	74.22	283.1	40.5	192.6	1.51 ± 0.39	$0.132^{+0.120}_{-0.100}$	$38.447^{+0.700}_{-1.415}$	0
20190327A	281.31	34.28	347.8	90.0	207.8	5.20 ± 1.60	$0.153^{+0.121}_{-0.116}$	$39.122^{+0.660}_{-1.428}$	0
20190328A	120.35	59.10	1303.7	51.9	1201.8	2.66 ± 0.46	$1.435^{+0.241}_{-0.378}$	$40.964^{+0.215}_{-0.373}$	0
20190328B	199.47	86.85	564.5	49.6	464.9	2.14 ± 0.55	$0.495^{+0.154}_{-0.279}$	$39.846^{+0.362}_{-0.920}$	0

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20190328C	73.83	81.96	470.7	62.5	358.2	14.90 ± 7.10	$0.357^{+0.140}_{-0.261}$	$40.375^{+0.486}_{-1.497}$	1
20190329A	65.54	73.63	189.2	88.4	50.8	2.24 ± 0.77	—	—	0
20190329B	87.90	76.27	406.0	65.9	290.1	—	$0.261^{+0.142}_{-0.191}$	—	0
20190329C	279.79	51.63	1256.8	60.8	1146.0	—	$1.364^{+0.224}_{-0.383}$	—	0
20190330A	204.09	38.36	509.5	25.4	434.1	1.14 ± 0.21	$0.458^{+0.150}_{-0.273}$	$39.498^{+0.348}_{-0.949}$	0
20190330B	269.41	52.81	668.0	48.8	569.2	5.30 ± 1.60	$0.639^{+0.158}_{-0.339}$	$40.487^{+0.329}_{-0.884}$	1
20190401A	196.80	79.91	779.6	38.8	690.8	8.60 ± 3.00	$0.791^{+0.171}_{-0.326}$	$40.904^{+0.318}_{-0.700}$	1
20190402A	178.61	47.10	1287.5	22.2	1215.3	1.34 ± 0.52	$1.453^{+0.246}_{-0.379}$	$40.678^{+0.289}_{-0.500}$	0
20190403A	116.33	86.36	519.2	54.6	414.6	3.19 ± 0.86	$0.435^{+0.145}_{-0.275}$	$39.894^{+0.382}_{-1.083}$	0
20190403B	135.47	1.46	291.1	52.7	188.4	23.80 ± 6.80	$0.126^{+0.119}_{-0.096}$	$39.603^{+0.728}_{-1.437}$	1
20190403C	249.83	58.70	933.3	37.2	846.1	1.53 ± 0.33	$0.983^{+0.198}_{-0.326}$	$40.364^{+0.261}_{-0.494}$	0
20190403D	326.53	84.29	613.0	62.5	500.5	1.75 ± 0.56	$0.547^{+0.150}_{-0.303}$	$39.855^{+0.355}_{-0.938}$	0
20190403E	220.22	86.54	220.0	43.7	126.3	76.00 ± 25.00	$0.051^{+0.097}_{-0.046}$	$39.300^{+1.084}_{-2.182}$	0
20190403F	43.34	33.14	666.4	69.6	546.8	7.10 ± 2.40	$0.613^{+0.151}_{-0.331}$	$40.574^{+0.340}_{-0.926}$	0
20190403G	81.74	25.78	865.4	165.4	650.0	1.59 ± 0.44	$0.737^{+0.167}_{-0.307}$	$40.102^{+0.304}_{-0.661}$	0
20190404A	143.10	36.90	1353.8	40.2	1263.6	4.50 ± 1.80	$1.513^{+0.256}_{-0.384}$	$41.242^{+0.291}_{-0.499}$	1
20190404B	259.79	40.00	490.1	45.7	394.4	16.30 ± 3.20	$0.410^{+0.140}_{-0.277}$	$40.547^{+0.361}_{-1.150}$	1
20190405A	337.02	20.96	423.8	46.2	327.6	2.50 ± 1.30	$0.310^{+0.145}_{-0.225}$	$39.465^{+0.549}_{-1.520}$	0
20190405B	236.48	89.16	1111.2	51.9	1009.3	17.50 ± 6.30	$1.195^{+0.208}_{-0.363}$	$41.609^{+0.285}_{-0.542}$	1
20190408A	262.20	71.60	862.1	44.7	767.4	1.51 ± 0.68	$0.879^{+0.192}_{-0.311}$	$40.250^{+0.351}_{-0.683}$	0
20190409A	79.52	6.72	1789.0	81.5	1657.5	8.70 ± 2.80	$2.026^{+0.305}_{-0.495}$	$41.798^{+0.249}_{-0.428}$	1
20190409B	126.65	63.47	297.6	59.8	187.8	6.80 ± 2.50	$0.125^{+0.119}_{-0.095}$	$39.052^{+0.757}_{-1.491}$	0
20190409C	252.60	71.62	674.5	42.9	581.6	2.17 ± 0.94	$0.653^{+0.161}_{-0.328}$	$40.120^{+0.369}_{-0.919}$	0
20190409D	336.64	26.95	1298.9	53.5	1195.4	2.74 ± 0.69	$1.427^{+0.239}_{-0.377}$	$40.971^{+0.242}_{-0.418}$	1
20190410A	263.47	−2.37	278.2	122.7	105.5	5.80 ± 1.60	$0.028^{+0.087}_{-0.027}$	$37.649^{+1.364}_{-3.049}$	0
20190410B	265.76	15.17	642.1	78.3	513.8	0.45 ± 0.15	$0.567^{+0.149}_{-0.312}$	$39.300^{+0.351}_{-0.941}$	1
20190411A	80.00	83.89	461.0	61.2	349.8	1.41 ± 0.51	$0.344^{+0.141}_{-0.251}$	$39.316^{+0.464}_{-1.407}$	0
20190411B	154.03	29.23	1227.7	33.4	1144.3	3.70 ± 0.57	$1.361^{+0.224}_{-0.384}$	$41.058^{+0.205}_{-0.389}$	1
20190411C	9.33	20.50	234.5	39.7	144.8	9.30 ± 2.40	$0.072^{+0.107}_{-0.059}$	$38.690^{+0.928}_{-1.676}$	1
20190412A	243.45	61.87	363.9	36.7	277.2	6.90 ± 2.20	$0.245^{+0.138}_{-0.180}$	$39.684^{+0.545}_{-1.386}$	1
20190412B	285.65	19.25	375.3	264.4	60.9	12.80 ± 5.20	—	—	0
20190414A	181.44	38.90	812.0	20.2	741.8	1.74 ± 0.48	$0.850^{+0.184}_{-0.331}$	$40.280^{+0.294}_{-0.617}$	1
20190414B	246.90	57.53	511.1	42.4	418.7	3.80 ± 1.00	$0.440^{+0.147}_{-0.275}$	$39.981^{+0.379}_{-1.059}$	1
20190415A	182.38	71.28	632.4	35.7	546.7	3.70 ± 1.40	$0.613^{+0.151}_{-0.331}$	$40.291^{+0.353}_{-0.953}$	1
20190415B	8.86	54.85	711.7	144.1	517.6	22.30 ± 3.40	$0.573^{+0.149}_{-0.315}$	$41.005^{+0.286}_{-0.835}$	0
20190415C	74.81	34.80	648.6	166.9	431.7	0.77 ± 0.19	$0.455^{+0.150}_{-0.274}$	$39.321^{+0.371}_{-0.994}$	0
20190416A	144.99	33.30	2287.1	39.0	2198.1	2.80 ± 0.86	$2.790^{+0.390}_{-0.612}$	$41.593^{+0.231}_{-0.381}$	1
20190416B	172.19	35.95	574.2	19.4	504.8	1.47 ± 0.53	$0.553^{+0.150}_{-0.306}$	$39.791^{+0.365}_{-0.963}$	1
20190417B	174.87	64.72	1151.7	25.5	1076.2	9.90 ± 1.80	$1.276^{+0.222}_{-0.398}$	$41.424^{+0.224}_{-0.445}$	0
20190417C	45.68	71.26	318.6	120.4	148.2	10.80 ± 4.90	$0.076^{+0.108}_{-0.062}$	$38.801^{+0.973}_{-1.766}$	1
20190418A	65.79	16.04	182.8	68.4	64.4	2.20 ± 1.00	—	—	1
20190419A	104.98	64.88	438.3	60.6	327.7	0.77 ± 0.30	$0.310^{+0.145}_{-0.226}$	$38.954^{+0.510}_{-1.415}$	0

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20190419B	255.27	86.74	166.6	53.8	62.8	7.90 ± 3.50	—	—	1
20190420A	106.55	55.96	609.8	66.4	493.4	3.11 ± 0.61	$0.536^{+0.151}_{-0.298}$	$40.086^{+0.318}_{-0.869}$	1
20190420B	94.73	70.12	844.3	64.9	729.4	15.10 ± 6.70	$0.836^{+0.180}_{-0.337}$	$41.202^{+0.348}_{-0.755}$	1
20190420C	248.10	37.25	627.6	33.4	544.2	4.13 ± 0.96	$0.610^{+0.151}_{-0.331}$	$40.334^{+0.305}_{-0.864}$	0
20190421B	82.49	62.31	393.1	97.3	245.8	16.40 ± 4.90	$0.206^{+0.127}_{-0.153}$	$39.895^{+0.567}_{-1.398}$	1
20190422A	48.56	35.15	452.9	80.1	322.8	9.10 ± 2.80	$0.303^{+0.146}_{-0.220}$	$40.003^{+0.493}_{-1.358}$	1
20190422B	158.27	45.67	975.4	32.1	893.3	1.57 ± 0.55	$1.047^{+0.198}_{-0.346}$	$40.435^{+0.296}_{-0.574}$	0
20190423A	179.68	55.25	244.2	33.2	161.0	55.40 ± 8.80	$0.090^{+0.115}_{-0.071}$	$39.667^{+0.817}_{-1.461}$	1
20190423B	298.58	26.19	585.5	483.2	52.3	7.00 ± 1.30	—	—	0
20190423C	349.08	86.97	855.7	60.6	745.1	4.37 ± 0.97	$0.854^{+0.185}_{-0.328}$	$40.684^{+0.276}_{-0.578}$	1
20190423D	29.69	84.80	498.2	67.9	380.3	18.00 ± 6.80	$0.391^{+0.138}_{-0.276}$	$40.545^{+0.430}_{-1.349}$	1
20190424A	168.30	63.78	758.6	35.4	673.2	1.99 ± 0.58	$0.768^{+0.169}_{-0.317}$	$40.239^{+0.303}_{-0.666}$	1
20190425A	255.72	21.52	127.8	48.4	29.4	31.60 ± 4.20	—	—	1
20190425B	210.12	88.60	1030.3	51.3	929.0	3.10 ± 1.30	$1.094^{+0.198}_{-0.344}$	$40.773^{+0.310}_{-0.600}$	1
20190426A	115.04	59.12	341.3	56.5	234.8	2.01 ± 0.29	$0.191^{+0.124}_{-0.143}$	$38.914^{+0.529}_{-1.319}$	1
20190427A	78.93	7.77	454.5	83.7	320.8	9.50 ± 2.90	$0.300^{+0.146}_{-0.218}$	$40.013^{+0.495}_{-1.356}$	1
20190428A	170.73	23.33	968.9	26.5	892.4	7.40 ± 2.20	$1.046^{+0.198}_{-0.346}$	$41.108^{+0.279}_{-0.540}$	1
20190429A	281.09	59.42	470.7	57.4	363.3	1.83 ± 0.31	$0.365^{+0.139}_{-0.266}$	$39.485^{+0.378}_{-1.298}$	0
20190429B	329.93	3.96	297.6	44.1	203.5	5.00 ± 1.60	$0.147^{+0.120}_{-0.111}$	$39.068^{+0.679}_{-1.440}$	0
20190430A	77.70	87.01	349.4	68.0	231.4	7.70 ± 2.30	$0.186^{+0.123}_{-0.139}$	$39.473^{+0.591}_{-1.407}$	0
20190430B	237.72	62.27	2617.1	34.1	2533.0	1.52 ± 0.52	$3.278^{+0.449}_{-0.650}$	$41.470^{+0.239}_{-0.377}$	0
20190430C	277.22	24.92	399.5	98.0	251.5	5.10 ± 1.20	$0.213^{+0.129}_{-0.158}$	$39.420^{+0.539}_{-1.355}$	1
20190501B	261.45	54.36	784.5	44.0	690.5	3.20 ± 0.55	$0.791^{+0.171}_{-0.326}$	$40.474^{+0.257}_{-0.595}$	1
20190502A	165.01	59.95	626.0	35.2	540.8	11.50 ± 2.30	$0.606^{+0.150}_{-0.329}$	$40.772^{+0.293}_{-0.849}$	1
20190502B	212.04	64.44	917.1	32.3	834.8	10.10 ± 1.60	$0.967^{+0.198}_{-0.321}$	$41.168^{+0.242}_{-0.464}$	1
20190502C	155.60	82.97	396.3	46.9	299.4	8.30 ± 3.50	$0.273^{+0.143}_{-0.199}$	$39.865^{+0.555}_{-1.445}$	1
20190515A	310.15	55.46	452.9	159.8	243.1	16.80 ± 1.80	$0.202^{+0.126}_{-0.151}$	$39.890^{+0.500}_{-1.296}$	0
20190515B	0.83	3.41	820.1	30.4	739.7	11.30 ± 4.80	$0.848^{+0.183}_{-0.332}$	$41.089^{+0.342}_{-0.722}$	1
20190515D	67.13	−5.01	425.4	47.1	328.3	8.80 ± 4.40	$0.311^{+0.145}_{-0.226}$	$40.015^{+0.542}_{-1.502}$	1
20190516B	167.34	7.37	1235.8	33.7	1152.1	9.90 ± 5.30	$1.371^{+0.224}_{-0.377}$	$41.492^{+0.328}_{-0.639}$	1
20190517C	87.50	26.62	334.8	187.2	97.6	8.70 ± 2.80	—	—	0
20190517D	339.95	41.84	1184.0	97.2	1036.8	5.80 ± 3.00	$1.228^{+0.214}_{-0.378}$	$41.155^{+0.333}_{-0.668}$	0
20190518B	175.11	20.28	913.9	26.2	837.7	2.10 ± 1.00	$0.972^{+0.198}_{-0.322}$	$40.490^{+0.347}_{-0.670}$	1
20190518C	242.01	4.64	444.8	42.4	352.4	14.80 ± 3.30	$0.348^{+0.141}_{-0.254}$	$40.348^{+0.413}_{-1.323}$	1
20190518D	174.72	89.31	202.2	53.7	98.5	3.00 ± 1.60	—	—	1
20190518G	94.79	75.52	525.7	63.8	411.9	1.76 ± 0.62	$0.431^{+0.145}_{-0.275}$	$39.629^{+0.410}_{-1.148}$	1
20190519D	164.57	42.99	538.6	29.3	459.3	0.81 ± 0.36	$0.488^{+0.154}_{-0.277}$	$39.411^{+0.424}_{-1.053}$	1
20190519E	168.28	41.65	693.9	27.6	616.3	1.46 ± 0.67	$0.693^{+0.166}_{-0.292}$	$40.006^{+0.372}_{-0.795}$	1
20190519F	165.63	77.23	799.0	43.3	705.7	4.00 ± 1.30	$0.809^{+0.173}_{-0.331}$	$40.594^{+0.309}_{-0.680}$	1
20190519G	306.68	72.34	433.5	76.9	306.6	22.00 ± 12.00	$0.282^{+0.144}_{-0.206}$	$40.320^{+0.583}_{-1.546}$	0
20190519H	342.99	87.37	1169.5	58.0	1061.5	6.60 ± 3.30	$1.258^{+0.219}_{-0.390}$	$41.234^{+0.328}_{-0.657}$	1
20190519J	296.21	86.93	642.1	55.4	536.7	1.70 ± 1.10	$0.601^{+0.148}_{-0.328}$	$39.934^{+0.430}_{-1.208}$	0

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FRBs	RA [°]	Dec [°]	DM _{obs} [pc/cm ³]	DM _{MW} [pc/cm ³]	DM _E [pc/cm ³]	Fluence [Jy ms]	z_{inf}	$\log(E/\text{erg})$	flag
20190520A	273.52	26.32	431.9	79.1	302.8	2.40 ± 1.00	$0.277^{+0.144}_{-0.202}$	$39.341^{+0.550}_{-1.439}$	1
20190527A	12.45	7.99	582.3	31.4	500.9	10.10 ± 4.10	$0.548^{+0.150}_{-0.303}$	$40.618^{+0.383}_{-0.997}$	1
20190527C	100.22	57.00	535.4	73.8	411.6	20.00 ± 12.00	$0.431^{+0.145}_{-0.275}$	$40.683^{+0.483}_{-1.359}$	1
20190529A	68.06	40.32	703.6	164.6	489.0	1.45 ± 0.49	$0.530^{+0.152}_{-0.295}$	$39.743^{+0.371}_{-0.955}$	0
20190530A	68.74	60.59	554.8	138.6	366.2	1.69 ± 0.90	$0.370^{+0.139}_{-0.270}$	$39.463^{+0.492}_{-1.549}$	0
20190531A	203.96	81.72	325.1	44.4	230.7	—	$0.185^{+0.123}_{-0.139}$	—	0
20190531B	259.91	49.32	166.6	41.7	74.9	—	—	—	0
20190531C	331.14	43.00	477.2	131.4	295.8	1.20 ± 1.00	$0.268^{+0.143}_{-0.196}$	$39.010^{+0.670}_{-1.987}$	0
20190531E	15.20	0.54	328.4	32.2	246.2	5.30 ± 2.90	$0.206^{+0.127}_{-0.154}$	$39.407^{+0.642}_{-1.588}$	0
20190601A	190.11	62.72	2228.9	34.0	2144.9	2.70 ± 2.40	$2.703^{+0.380}_{-0.582}$	$41.550^{+0.392}_{-1.172}$	1
20190601B	17.88	23.82	789.3	43.4	695.9	13.00 ± 3.90	$0.798^{+0.171}_{-0.328}$	$41.092^{+0.301}_{-0.667}$	1
20190601C	88.52	28.47	423.8	186.1	187.7	5.80 ± 2.50	$0.125^{+0.119}_{-0.095}$	$38.982^{+0.778}_{-1.537}$	0
20190601D	85.86	79.35	669.6	65.0	554.6	5.70 ± 1.70	$0.622^{+0.154}_{-0.334}$	$40.493^{+0.327}_{-0.894}$	0
20190603B	48.87	74.28	503.0	99.0	354.0	6.20 ± 2.70	$0.351^{+0.140}_{-0.256}$	$39.977^{+0.480}_{-1.462}$	0
20190604C	77.39	49.30	504.7	153.0	301.7	26.20 ± 4.20	$0.276^{+0.144}_{-0.201}$	$40.375^{+0.464}_{-1.282}$	0
20190604D	199.93	15.73	1020.6	24.2	946.4	2.48 ± 0.79	$1.117^{+0.199}_{-0.342}$	$40.695^{+0.276}_{-0.519}$	1
20190604E	235.59	32.06	1218.0	25.4	1142.6	2.26 ± 0.82	$1.359^{+0.224}_{-0.386}$	$40.842^{+0.278}_{-0.514}$	1
20190604G	120.81	59.50	231.3	49.7	131.6	4.49 ± 0.75	$0.057^{+0.100}_{-0.050}$	$38.169^{+0.982}_{-1.891}$	1
20190605C	168.32	−5.19	186.0	36.2	99.8	4.40 ± 1.50	—	—	1
20190605D	26.72	28.62	1653.1	45.4	1557.7	2.16 ± 0.84	$1.903^{+0.289}_{-0.456}$	$41.136^{+0.271}_{-0.469}$	0
20190606B	108.79	86.85	275.0	52.6	172.4	17.40 ± 5.40	$0.103^{+0.118}_{-0.080}$	$39.287^{+0.820}_{-1.484}$	1
20190607A	26.23	23.66	559.7	41.2	468.5	21.30 ± 3.70	$0.499^{+0.155}_{-0.281}$	$40.853^{+0.331}_{-0.870}$	1
20190607B	42.02	49.62	289.5	138.4	101.1	3.20 ± 0.61	$0.023^{+0.085}_{-0.022}$	$37.222^{+1.445}_{-2.831}$	1
20190608A	359.23	19.17	719.8	36.0	633.8	1.51 ± 0.59	$0.715^{+0.167}_{-0.299}$	$40.051^{+0.346}_{-0.738}$	0
20190609A	345.30	87.94	315.4	57.2	208.2	10.40 ± 4.10	$0.153^{+0.121}_{-0.116}$	$39.426^{+0.686}_{-1.486}$	0
20190609B	210.49	88.35	292.8	52.9	189.9	22.20 ± 8.40	$0.128^{+0.119}_{-0.098}$	$39.587^{+0.751}_{-1.496}$	1
20190609C	73.17	24.06	480.4	112.8	317.6	1.91 ± 0.43	$0.296^{+0.145}_{-0.215}$	$39.303^{+0.471}_{-1.310}$	0
20190609D	115.94	51.69	509.5	55.3	404.2	2.36 ± 0.94	$0.422^{+0.143}_{-0.276}$	$39.735^{+0.426}_{-1.220}$	1
20190612A	148.16	70.42	427.0	36.4	340.6	20.00 ± 10.00	$0.330^{+0.143}_{-0.240}$	$40.428^{+0.521}_{-1.509}$	0
20190612B	222.21	4.31	186.0	26.1	109.9	3.78 ± 0.68	$0.033^{+0.089}_{-0.032}$	$37.606^{+1.243}_{-3.137}$	0
20190612C	79.12	61.01	1638.5	104.7	1483.8	12.10 ± 3.20	$1.804^{+0.275}_{-0.441}$	$41.835^{+0.232}_{-0.395}$	0
20190613A	257.40	18.85	714.9	53.4	611.5	8.00 ± 3.20	$0.688^{+0.165}_{-0.296}$	$40.737^{+0.355}_{-0.766}$	0
20190613B	65.75	42.67	286.3	170.0	66.3	1.26 ± 0.27	—	—	0
20190614A	179.79	88.33	1062.7	51.0	961.7	2.21 ± 0.93	$1.136^{+0.201}_{-0.340}$	$40.662^{+0.307}_{-0.580}$	0
20190614B	332.86	24.69	580.7	53.7	477.0	8.40 ± 2.80	$0.512^{+0.154}_{-0.286}$	$40.472^{+0.380}_{-0.958}$	1
20190614C	356.50	35.91	585.5	53.8	481.7	2.91 ± 0.95	$0.519^{+0.153}_{-0.290}$	$40.025^{+0.373}_{-0.951}$	1
20190616A	234.03	34.48	211.9	24.8	137.1	1.67 ± 0.55	$0.063^{+0.103}_{-0.054}$	$37.830^{+0.999}_{-1.849}$	0
20190617A	178.60	83.87	195.7	46.6	99.1	21.00 ± 9.30	—	—	0
20190617B	56.43	1.16	275.0	45.3	179.7	9.20 ± 4.70	$0.113^{+0.119}_{-0.087}$	$39.097^{+0.840}_{-1.617}$	0
20190617C	134.37	35.70	637.3	42.5	544.8	4.10 ± 1.40	$0.611^{+0.151}_{-0.331}$	$40.332^{+0.341}_{-0.930}$	0
20190618A	321.25	25.44	228.1	76.4	101.7	4.30 ± 1.70	$0.024^{+0.085}_{-0.023}$	$37.375^{+1.497}_{-2.983}$	0
20190619A	165.18	68.37	897.7	35.4	812.3	3.33 ± 0.89	$0.936^{+0.198}_{-0.310}$	$40.654^{+0.287}_{-0.524}$	0

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FRBs	RA [°]	Dec [°]	DM _{obs} [pc/cm ³]	DM _{MW} [pc/cm ³]	DM _E [pc/cm ³]	Fluence [Jy ms]	z_{inf}	$\log(E/\text{erg})$	flag
20190619B	231.74	82.15	270.1	45.4	174.7	4.50 ± 1.60	$0.106^{+0.118}_{-0.082}$	$38.728^{+0.821}_{-1.508}$	0
20190619C	38.29	36.33	486.9	67.9	369.0	1.22 ± 0.37	$0.374^{+0.139}_{-0.273}$	$39.332^{+0.418}_{-1.377}$	0
20190619D	114.79	41.59	375.3	60.8	264.5	6.50 ± 1.60	$0.229^{+0.134}_{-0.169}$	$39.594^{+0.531}_{-1.351}$	0
20190621B	193.14	55.64	1059.5	29.0	980.5	1.19 ± 0.38	$1.159^{+0.204}_{-0.348}$	$40.412^{+0.274}_{-0.510}$	0
20190621C	206.57	5.23	571.0	26.4	494.6	2.38 ± 0.54	$0.538^{+0.151}_{-0.299}$	$39.973^{+0.328}_{-0.885}$	1
20190621D	270.63	78.89	645.4	48.6	546.8	4.30 ± 1.90	$0.613^{+0.151}_{-0.331}$	$40.356^{+0.373}_{-1.000}$	1
20190622A	298.98	85.81	1120.9	54.9	1016.0	1.28 ± 0.58	$1.203^{+0.209}_{-0.367}$	$40.479^{+0.314}_{-0.611}$	0
20190623A	270.48	24.52	1082.1	74.1	958.0	0.86 ± 0.19	$1.131^{+0.201}_{-0.341}$	$40.248^{+0.242}_{-0.453}$	0
20190623B	335.22	46.12	1554.4	141.4	1363.0	2.78 ± 0.87	$1.627^{+0.282}_{-0.400}$	$41.100^{+0.266}_{-0.429}$	1
20190623C	192.31	86.03	1049.8	48.8	951.0	5.90 ± 1.70	$1.122^{+0.200}_{-0.342}$	$41.077^{+0.266}_{-0.497}$	1
20190624A	168.32	69.78	973.7	37.7	886.0	3.01 ± 0.98	$1.037^{+0.198}_{-0.343}$	$40.709^{+0.289}_{-0.558}$	1
20190624B	304.65	73.61	215.1	70.9	94.2	20.00 ± 5.20	—	—	1
20190625A	227.91	32.88	297.6	18.6	229.0	11.90 ± 2.70	$0.183^{+0.123}_{-0.137}$	$39.645^{+0.571}_{-1.366}$	0
20190625C	73.20	11.10	441.6	75.5	316.1	4.02 ± 0.83	$0.294^{+0.145}_{-0.214}$	$39.621^{+0.465}_{-1.300}$	1
20190625D	115.02	4.87	716.6	100.1	566.5	12.10 ± 2.10	$0.636^{+0.157}_{-0.338}$	$40.841^{+0.284}_{-0.813}$	1
20190627A	195.89	0.75	402.8	28.9	323.9	2.62 ± 0.68	$0.304^{+0.145}_{-0.221}$	$39.468^{+0.474}_{-1.329}$	0
20190627B	256.40	40.79	428.6	40.3	338.3	10.20 ± 1.40	$0.327^{+0.143}_{-0.238}$	$40.125^{+0.404}_{-1.271}$	1
20190627C	267.88	71.58	968.9	48.3	870.6	11.30 ± 4.00	$1.017^{+0.198}_{-0.337}$	$41.264^{+0.302}_{-0.578}$	1
20190627D	295.33	43.84	1999.2	129.0	1820.2	1.54 ± 0.28	$2.244^{+0.343}_{-0.507}$	$41.139^{+0.200}_{-0.321}$	1
20190628A	199.06	51.75	745.7	29.7	666.0	1.28 ± 0.32	$0.758^{+0.168}_{-0.314}$	$40.036^{+0.291}_{-0.642}$	0
20190628B	248.48	80.14	406.0	44.5	311.5	1.39 ± 0.34	$0.288^{+0.145}_{-0.210}$	$39.141^{+0.484}_{-1.323}$	1
20190628C	11.52	48.59	1740.4	90.8	1599.6	2.45 ± 0.62	$1.954^{+0.295}_{-0.472}$	$41.215^{+0.226}_{-0.383}$	0
20190629A	6.34	12.67	503.0	34.3	418.7	3.05 ± 0.76	$0.440^{+0.147}_{-0.275}$	$39.885^{+0.375}_{-1.051}$	0
20190630B	328.21	43.01	653.5	151.9	451.6	14.70 ± 1.80	$0.479^{+0.153}_{-0.274}$	$40.651^{+0.318}_{-0.864}$	0
20190630C	68.38	80.95	1659.6	67.3	1542.3	2.27 ± 0.83	$1.883^{+0.285}_{-0.449}$	$41.147^{+0.264}_{-0.451}$	0
20190630D	143.36	8.90	321.9	42.1	229.8	2.60 ± 0.75	$0.184^{+0.123}_{-0.138}$	$38.991^{+0.591}_{-1.401}$	1
20190701A	277.47	59.04	635.7	52.9	532.8	1.70 ± 0.29	$0.596^{+0.148}_{-0.325}$	$39.925^{+0.284}_{-0.839}$	1
20190701B	302.93	80.18	748.9	61.3	637.6	1.90 ± 0.72	$0.720^{+0.167}_{-0.301}$	$40.158^{+0.341}_{-0.729}$	1
20190701C	96.36	81.63	972.1	56.3	865.8	2.50 ± 1.60	$1.010^{+0.198}_{-0.335}$	$40.603^{+0.386}_{-0.832}$	0
20190701D	112.10	66.70	934.9	57.5	827.4	8.60 ± 3.60	$0.957^{+0.198}_{-0.317}$	$41.088^{+0.332}_{-0.624}$	1
20190701E	138.57	61.71	888.0	39.9	798.1	2.00 ± 0.49	$0.916^{+0.198}_{-0.303}$	$40.412^{+0.283}_{-0.511}$	1