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MPEC 2020-P28 : DAILY ORBIT UPDATE (2020 August 8)

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M.P.E.C. 2020-P28

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DAILY ORBIT UPDATE (2020 August 8)

Update to 2020-P25

Full-precision elements for the objects listed here are available at <https://www.minorplanetcenter.net/iau/MPCORB.html>

New multiple-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Opp	C
J99R09S	17.6	0.15	K205V	302.527	213.899	167.558	14.133	0.26431	2.61921	3	X
J99U05K	17.0	0.15	K205V	339.851	93.745	274.237	25.986	0.44259	2.60296	4	X
K01FK3H	17.8	0.15	K205V	314.907	176.850	183.628	13.043	0.19723	2.68206	5	X
K01QF0Y	15.5	0.15	K205V	314.741	129.988	263.043	24.112	0.08499	2.81181	8	X
K02CW2O	16.8	0.15	K205V	355.156	147.831	157.439	33.906	0.23753	2.60069	6	X
K03B47K	17.8	0.15	K205V	332.697	235.238	138.865	20.668	0.70605	2.74829	4	X
K06H00B	18.9	0.15	K205V	345.754	131.028	167.798	3.779	0.47036	2.28993	4	X
K06S19S	19.1	0.15	K205V	354.156	142.711	154.008	11.711	0.58040	2.78746	3	X
K06U63D	19.0	0.15	K205V	350.914	135.299	148.855	7.428	0.46848	2.32322	4	X
K07C15H	21.7	0.15	K205V	354.383	114.792	139.057	25.893	0.28498	1.38032	3	X
K07O01R	16.7	0.15	K205V	344.043	68.508	289.904	26.075	0.35032	2.63027	5	X
K10J69O	15.0	0.15	K205V	344.895	104.320	248.105	31.606	0.26716	2.88792	6	V
K14L14U	19.7	0.15	K205V	147.585	219.440	274.118	25.318	0.44952	1.28687	4	X
K14L21W	18.6	0.15	K205V	354.923	129.842	155.023	8.261	0.61293	3.35524	3	X
K16N16O	19.6	0.15	K205V	342.650	182.308	151.411	27.003	0.57430	2.45822	2	X
K16N38V	18.5	0.15	K205V	328.884	205.219	177.691	23.889	0.56864	2.56291	2	X
K16P00N	20.3	0.15	K205V	65.571	23.700	126.072	21.602	0.33220	0.85886	4	X
K16Y03O	20.1	0.15	K205V	342.690	342.724	285.456	22.102	0.26771	1.26570	4	X
K17Q34X	21.5	0.15	K205V	60.390	21.192	142.733	21.274	0.39804	1.02914	4	X
K17X62L	18.7	0.15	K205V	306.357	107.225	287.542	21.458	0.41431	2.19705	2	X
K18G04O	24.5	0.15	K205V	350.750	72.904	185.013	1.910	0.42781	1.61538	2	X
K18L04M	18.8	0.15	K205V	205.225	303.213	131.259	32.242	0.20114	1.01865	3	X
K19A05N	21.1	0.15	K205V	302.822	97.996	277.021	2.019	0.41450	1.61042	5	X
K19O01H	22.6	0.15	K205V	59.338	215.266	311.943	8.474	0.29755	0.99150	2	X
h7844	21.1	0.15	K205V	144.773	9.731	80.892	2.022	0.66548	0.67383	7	F
s0999	17.7	0.15	K205V	104.459	67.991	120.677	3.297	0.02589	2.52052	7	B

New perturbed one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K10R03S	22.6	0.15	K205V	67.127	155.784	179.240	5.051	0.45569	2.10706	109	X
K10S15K	22.8	0.15	K205V	261.238	329.651	22.373	4.772	0.55745	2.32786	47	X
K15Fh1Z	8.1	0.15	K154I	45.769	42.849	48.752	15.347	0.48965	66.71971	96	A
K16GK6N	20.0	0.15	K205V	285.426	319.935	11.797	20.178	0.47198	1.58425	36	X
K20H08S	21.4	0.15	K205V	323.546	158.180	155.081	8.615	0.29177	1.54456	103	X

K20K07R	21.0	0.15	K205V	332.896	69.693	259.200	10.949	0.36450	1.94228	70	X
K20L01Z	22.1	0.15	K205V	344.172	359.819	304.255	7.641	0.45173	2.32478	54	X
K20L02J	21.8	0.15	K205V	332.346	27.887	303.894	5.818	0.42242	2.11303	54	X
K20M00P	20.6	0.15	K205V	332.780	107.609	240.441	3.250	0.50067	2.48911	54	X
K20M04A	22.1	0.15	K205V	169.853	171.263	287.542	15.341	0.49145	0.86083	52	X
K20M04C	21.4	0.15	K205V	339.367	356.921	316.706	6.542	0.45027	2.09816	41	X
K20N00F	23.7	0.15	K205V	343.671	157.125	149.820	2.672	0.54853	2.40666	86	X
K20N01C	22.8	0.15	K205V	349.368	339.888	302.957	5.850	0.46666	2.10586	26	X
K20N01E	22.9	0.15	K205V	320.133	26.526	296.700	14.629	0.26164	1.45891	25	X
K20N01J	22.7	0.15	K205V	108.151	197.626	295.516	7.721	0.27503	0.93495	25	X
K20N01L	19.8	0.15	K205V	320.723	189.145	160.217	6.914	0.47401	2.27773	24	X
K20N01M	20.1	0.15	K205V	336.092	33.027	281.835	9.145	0.44915	2.20768	28	X
K20O00D	23.8	0.15	K205V	308.288	14.752	296.766	11.490	0.09418	1.14267	22	X
K20O00T	22.8	0.15	K205V	314.502	88.342	303.212	9.383	0.58932	1.93445	21	X
K20O01M	20.9	0.15	K205V	67.717	18.457	158.153	18.574	0.21288	1.19021	20	X
K20O02A	21.7	0.15	K205V	325.437	38.162	325.656	7.607	0.48508	2.27839	42	X
K20O02J	20.0	0.15	K205V	349.757	347.325	315.213	37.814	0.53191	2.69562	18	X
K20O03J	23.2	0.15	K205V	344.616	352.449	314.817	11.437	0.49903	2.44068	20	X
K20O03N	21.6	0.15	K205V	303.052	258.044	127.607	27.098	0.57671	1.71301	17	X
K20O04E	22.4	0.15	K205V	312.306	201.259	163.729	9.088	0.47034	1.70770	15	X
K20O05Y	23.7	0.15	K205V	357.263	270.069	307.204	4.195	0.65864	1.84670	11	X
K20P00D	19.2	0.15	K2082	341.863	71.839	320.532	26.478	0.42261	2.31376	6	B
K20P00E	20.0	0.15	K205V	335.141	126.375	234.181	22.437	0.59082	2.70071	14	X
K20P00F	23.2	0.15	K205V	352.398	1.380	254.407	2.101	0.55234	2.00024	11	V

New one-opposition orbits:

Object	H	G	Epoch	M	Peri.	Node	Incl.	e	a	Arc	C
K15Fh2A	6.9	0.15	K153J	48.918	331.815	114.280	7.329	0.41486	60.33387	34	A
K15KJ0V	8.0	0.15	K155I	360.000	95.773	133.746	19.618	0.00970	57.53696	25	A

New observations:

K03B47K	S2020	08	05.51837	16	29	19.99	+03	25	47.5	18	RLEP028C51	
K03B47K	s2020	08	05.51837	1	-	1925.0749	-	6580.1711	+	159.1437	EP028C51	
K03B47K	S2020	08	05.64914	16	28	59.82	+03	20	44.8		LEP028C51	
K03B47K	s2020	08	05.64914	1	-	1909.2937	-	6584.9706	+	150.7463	EP028C51	
K03B47K	S2020	08	05.71459	16	28	49.77	+03	18	12.8		LEP028C51	
K03B47K	s2020	08	05.71459	1	-	1906.1662	-	6584.8648	+	188.1906	EP028C51	
K03B47K	S2020	08	05.84537	16	28	29.63	+03	13	08.2		LEP028C51	
K03B47K	s2020	08	05.84537	1	-	1890.3932	-	6589.6504	+	179.8799	EP028C51	
K03B47K	S2020	08	05.91069	16	28	19.57	+03	10	35.8		LEP028C51	
K03B47K	s2020	08	05.91069	1	-	1877.7095	-	6594.4147	+	134.1472	EP028C51	
K03B47K	S2020	08	05.97615	16	28	09.51	+03	08	02.8		LEP028C51	
K03B47K	s2020	08	05.97615	1	-	1874.6094	-	6594.3845	+	171.6058	EP028C51	
K03B47K	S2020	08	06.10692	16	27	49.36	+03	02	55.3		LEP028C51	
K03B47K	s2020	08	06.10692	1	-	1858.8090	-	6599.0703	+	163.3181	EP028C51	
K03B47K	C2020	08	07.29732016	24	45.79	+02	15	12.6		17.71	oVEP028T08	
K03B47K	C2020	08	07.30101316	24	45.20	+02	15	03.5		17.81	oVEP028T08	
K03B47K	C2020	08	07.30654216	24	44.29	+02	14	50.2		17.51	oVEP028T08	
K03B47K	C2020	08	07.31668116	24	42.67	+02	14	25.3		18.02	oVEP028T08	
K03B47K	KC2020	08	07.87620716	23	16.31	+01	51	14.5		17.7	GVEP028L18	
K03B47K	KC2020	08	07.87766416	23	16.11	+01	51	10.5		18.3	GVEP028L18	
K03B47K	KC2020	08	07.87863716	23	15.94	+01	51	07.4		18.1	GVEP028L18	
K06H00B	C2020	08	07.48107620	58	12.33	-05	09	01.3		16.39	oVEP028T08	
K06H00B	C2020	08	07.48431620	58	12.69	-05	09	03.6		16.42	oVEP028T08	
K06H00B	C2020	08	07.49122720	58	13.47	-05	09	08.7		16.38	oVEP028T08	
K06H00B	C2020	08	07.50114020	58	14.58	-05	09	16.1		16.48	oVEP028T08	
K06H00B	KC2020	08	07.78535	20	58	53.40	-05	12	11.6		16.9	VqEP028L68
K06H00B	KC2020	08	07.78943	20	58	53.86	-05	12	14.9		16.6	VqEP028L68
K06H00B	KC2020	08	07.79238	20	58	54.21	-05	12	17.2		16.8	VqEP028L68
K06S19S	pC2020	08	07.97117501	22	28.03	+08	02	54.9		20.1	GVEP028L01	
K06S19S	IC2020	08	07.97463701	22	28.30	+08	02	50.5		19.8	GVEP028L01	
K06S19S	pC2020	08	07.97809601	22	28.71	+08	02	46.6		19.8	GVEP028L01	
K06S19S	pC2020	08	07.98158801	22	29.06	+08	02	42.1		19.7	GVEP028L01	
K06S19S	pC2020	08	07.98602801	22	29.43	+08	02	35.6		18.6	GVEP028L01	
K06U63D	KC2020	07	11.96894820	06	34.73	+03	17	53.8		16.9	RVEP028160	
K06U63D	KC2020	07	11.97102520	06	34.95	+03	17	51.1		16.9	RVEP028160	
K06U63D	KC2020	07	11.97309820	06	35.14	+03	17	48.5		16.7	RVEP028160	
K06U63D	C2020	08	07.46807220	49	33.36	-08	52	49.5		17.21	oVEP028T08	
K06U63D	C2020	08	07.47130220	49	33.57	-08	52	54.7		17.08	oVEP028T08	
K06U63D	C2020	08	07.47736420	49	33.99	-08	53	04.8		17.09	oVEP028T08	
K06U63D	C2020	08	07.48984220	49	34.88	-08	53	25.6		16.84	oVEP028T08	
K06U63D	C2020	08	07.97229	20	50	15.18	-09	07	00.3		17.0	GVEP028K87
K06U63D	C2020	08	07.97396	20	50	15.31	-09	07	03.2		17.3	GVEP028K87
K07C15H	C2020	08	07.49539821	28	36.35	+01	00	30.7		17.87	oVEP028T08	
K07C15H	C2020	08	07.49834121	28	36.58	+00	59	44.1		18.26	oVEP028T08	
K07C15H	C2020	08	07.50482421	28	37.04	+00	58	01.8		18.09	oVEP028T08	
K07C15H	C2020	08	07.51689021	28	37.94	+00	54	50.6		17.93	oVEP028T08	
K07C15H	KC2020	08	07.99741	21	29	28.61	-01	11	31.9		17.8	GVEP028K87
K07C15H	KC2020	08	08.00450	21	29	29.20	-01	13	23.2		18.0	GVEP028K87
K07C15H	KC2020	08	08.01160	21	29	29.76	-01	15	13.2		17.9	GVEP028K87
K10R03S	C2010	07	12.34515	19	10	37.34	+00	49	06.3			VEP028F51
K10R03S	C2010	07	12.35685	19	10	37.51	+00	49	14.5			VEP028F51
K10R03S	C2010	08	06.39873	19	35	00.20	+03	15	10.0		20.2	GVEP028F51
K10R03S	C2010	08	06.40994	19	35	01.21	+03	15	08.8		19.6	GVEP028F51
K10S00B	C2010	07	20.26725	19	07	32.52	+18	37	26.2		20.4	GVEP028F51
K10S00B	C2010	07	20.27660	19	07	33.70	+18	37	42.6		20.2	GVEP028F51
K10S00B	C2010	08	19.27806	20	51	16.20	+25	14	24.9		19.7	GVEP028F51
K10S00B	C2010	08	19.29088	20	51	19.38	+25	14	20.3		19.6	GVEP028F51
K10S00B	C2010	09	06.27207	22	06	51.36	+19	37	31.0		19.3	GVEP028F51
K10S00B	C2010	09	06.28295	22	06	53.67	+19	37	13.9		19.7	GVEP028F51
K10S00B	tC2010	09	08.30578	22	14	18.90	+18	40	50.6		20.1	GVEP028F51
K10S00B	tC2010	09	08.31794	22	14	21.35	+18	40	30.4		20.0	GVEP028F51
K10S15K	C2010	11	15.49191	02	46	39.90	+27	11	33.3		20.4	GVEP028F51

K10S15K C2010 11 15.50367 02 46 39.99 +27 11 35.5 20.5 iUEP028F51
K13E89H C2020 08 07.53295 01 18 19.076+33 57 11.37 20.6 iUEP028F51
K13E89H C2020 08 07.54544 01 18 23.822+33 57 57.74 20.3 iUEP028F51
K13E89H C2020 08 07.55789 01 18 28.516+33 58 43.37 20.1 iUEP028F51
K13E89H C2020 08 07.57043 01 18 33.247+33 59 29.28 20.0 iUEP028F51
K14L14U KC2020 07 13.25011621 29 21.06 +15 41 01.5 22.3 VuEP028H21
K14L14U KC2020 07 13.25953321 29 20.16 +15 41 10.4 22.2 VuEP028H21
K14L21W C2020 08 07.42562 20 57 14.506-05 55 36.27 17.3 iUEP028F52
K14L21W C2020 08 07.43793 20 57 15.272-05 55 54.25 17.4 iUEP028F52
K14L21W C2020 08 07.45022 20 57 16.038-05 56 12.19 17.4 iUEP028F52
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K14L21W C2020 08 07.48107620 57 17.95 -05 56 56.7 17.29oVEP028T08
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K14L21W KC2020 08 07.98527 20 57 54.47 -06 09 21.5 17.6 GVEP028K87
K16F14Y S2020 08 06.91487 02 13 05.94 +42 09 54.4 19 RLEP028C51
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K16F14Y S2020 08 06.98033 02 13 15.13 +42 10 15.0 LEP028C51
K16F14Y s2020 08 06.98033 1 + 469.9136 + 4400.8581 + 5225.2025 EP028C51
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K16F14Y s2020 08 07.11110 1 + 457.7706 + 4395.9032 + 5230.4289 EP028C51
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K16F14Y S2020 08 07.30720 02 14 01.39 +42 11 50.2 LEP028C51
K16F14Y s2020 08 07.30720 1 + 428.3107 + 4357.7802 + 5264.6265 EP028C51
K16F14Y S2020 08 07.43798 02 14 19.76 +42 12 26.9 LEP028C51
K16F14Y s2020 08 07.43798 1 + 416.3190 + 4352.7397 + 5269.7354 EP028C51
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K16GK6N C2016 05 11.33583111 06 39.058+03 12 06.57 23.56GVEP028T12
K16GK6N C2016 05 11.34146111 06 38.861+03 12 04.36 23.09GVEP028T12
K16GK6N C2016 05 11.34758811 06 38.646+03 12 02.05 23.04GVEP028T12
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K16N38V C2020 08 08.45641 23 12 03.78 +35 04 56.4 18.8 GVEP028I52
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K16Y030 KC2020 08 06.89257318 18 43.25 +79 42 29.3 19.3 GVEP028C95
K16Y030 KC2020 08 06.91498318 18 51.77 +79 41 41.7 19.9 GVEP028C95
K16Y030 KC2020 08 06.93741818 19 00.64 +79 40 54.1 19.5 GVEP028C95
K16Y08R C2020 08 07.53425 01 22 45.371+31 02 12.39 21.1 iUEP028F51
K16Y08R C2020 08 07.54676 01 22 46.796+31 03 01.92 20.8 iUEP028F51
K16Y08R C2020 08 07.55922 01 22 48.224+31 03 51.01 20.8 iUEP028F51
K17Q34X C2020 08 08.47438 21 30 39.57 -06 32 48.2 20.7 GVEP028I52
K17Q34X C2020 08 08.47529 21 30 39.42 -06 32 52.4 20.6 GVEP028I52
K17Q34X C2020 08 08.47621 21 30 39.15 -06 32 57.7 21.5 GVEP028I52
K17X62L C2020 08 06.31075021 16 15.10 +14 12 38.3 19.80rUEP028I41
K17X62L C2020 08 06.36715021 16 09.52 +14 14 08.6 20.02gUEP028I41
K17X62L C2020 08 07.36244021 14 34.70 +14 40 35.6 19.57rUEP028I41
K17X62L C2020 08 07.44139021 14 26.75 +14 42 40.4 20.17gUEP028I41
K17X62L C2020 08 08.47733 21 12 45.85 +15 09 54.3 VEP028I52
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K17X62L C2020 08 08.48173 21 12 45.36 +15 10 01.4 19.5 GVEP028I52
K18G040 C2020 08 08.47843 22 02 50.90 +08 57 21.2 19.9 GVEP028I52
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a1123 C2020 08 07.49880221 41 26.20 -14 31 29.5 18.36oVEP028T08
a1123 C2020 08 07.50205921 41 26.06 -14 31 36.7 18.27oVEP028T08

a1123	C2020	08	07.50718621	41	25.80	-14	31	47.6	18.41	oVEP028T08	
c2503	KC2020	07	11.93876318	44	31.11	+13	23	56.2	17.3	RVEP028160	
c2503	KC2020	07	11.94047218	44	31.06	+13	23	59.8	17.2	RVEP028160	
c2503	KC2020	07	11.94196918	44	30.99	+13	24	02.7	17.2	RVEP028160	
f4903	C2020	08	04.43520002	51	42.38	+24	40	17.9	19.48	rUEP028I41	
f4903	C2020	08	04.46760002	51	46.84	+24	40	17.7	19.86	gUEP028I41	
f4903	C2020	08	07.42862002	58	31.39	+24	38	56.7	19.47	rUEP028I41	
f4903	C2020	08	07.48369002	58	38.64	+24	38	54.4	20.42	gUEP028I41	
g8086	C2020	08	07.59349802	36	54.80	+41	23	36.3	16.69	oVEP028T05	
g8086	C2020	08	07.59765702	36	55.59	+41	23	44.3	16.70	oVEP028T05	
g8086	C2020	08	07.59949402	36	56.00	+41	23	48.1	16.61	oVEP028T05	
g8086	C2020	08	07.61567402	36	59.02	+41	24	18.8	16.68	oVEP028T05	
g8086	C2020	08	07.62206902	37	00.23	+41	24	30.5	16.66	oVEP028T05	
g8086	C2020	08	07.62669002	37	01.12	+41	24	39.7	16.64	oVEP028T05	
h7844	C2020	06	15.50896920	19	20.02	-22	02	29.9	18.09	oVEP028T08	
h7844	C2020	06	15.51219420	19	17.87	-22	02	39.4	17.32	oVEP028T08	
h7844	C2020	06	15.51726720	19	14.38	-22	02	54.7	17.57	oVEP028T08	
h7844	C2020	06	15.52649220	19	08.13	-22	03	22.4	17.50	oVEP028T08	
h7844	C2020	06	16.49298420	08	12.12	-22	51	39.7	18.34	cVEP028T05	
h7844	C2020	06	16.51653620	07	54.72	-22	52	50.9	17.94	cVEP028T05	
h7844	C2020	06	16.51973820	07	52.33	-22	53	01.2	19.66	cVEP028T05	
h7844	C2020	06	16.52568420	07	47.99	-22	53	18.8	17.96	cVEP028T05	
h7844	KC2020	06	20.66272	19	09	29.35	-26	11	23.6	16.8	RqEP028Q11
h7844	KC2020	06	20.66989	19	09	22.14	-26	11	41.5	17.2	RqEP028Q11
h7844	KC2020	06	20.67345	19	09	18.56	-26	11	50.2	16.5	RqEP028Q11
h7844	C2020	06	21.48259518	55	47.75	-26	43	29.9	17.34	cVEP028T05	
h7844	C2020	06	21.48584318	55	44.31	-26	43	36.9	16.99	cVEP028T05	
h7844	C2020	06	21.49416618	55	35.49	-26	43	55.3	16.76	cVEP028T05	
h7844	C2020	06	21.52897418	54	58.58	-26	45	10.2	17.24	cVEP028T05	
h7844	C2020	06	22.16756	18	43	54.35	-27	06	23.4	17.2	RqEP028Y00
h7844	C2020	06	22.16884	18	43	52.96	-27	06	24.8	17.1	RqEP028Y00
h7844	C2020	06	22.16984	18	43	51.96	-27	06	26.9	16.6	RqEP028Y00
h7844	C2020	07	09.30686014	38	26.89	-20	32	22.5	18.53	oVEP028T08	
h7844	C2020	07	09.31008414	38	25.39	-20	32	14.6	18.59	oVEP028T08	
h7844	C2020	07	09.31561514	38	22.86	-20	32	02.6	18.41	oVEP028T08	
h7844	C2020	07	09.32762814	38	17.39	-20	31	35.6	18.40	oVEP028T08	
n7135	C2020	08	07.49681622	26	16.64	+37	38	35.9	18.91	oVEP028T05	
n7135	C2020	08	07.50004022	26	16.20	+37	38	31.5	19.10	oVEP028T05	
n7135	C2020	08	07.50835722	26	14.83	+37	38	19.7	18.75	oVEP028T05	
n7135	C2020	08	07.54199222	26	09.51	+37	37	28.1	18.85	oVEP028T05	
o0094	KC2020	08	06.90456	18	14	38.74	+39	53	59.8	17.6	GVEP028Z43
o0094	KC2020	08	06.91315	18	14	41.24	+39	52	53.4	17.6	GVEP028Z43
o0094	KC2020	08	06.92205	18	14	43.86	+39	51	44.0	17.5	GVEP028Z43
o0094	KC2020	08	06.93070	18	14	46.37	+39	50	36.7	17.6	GVEP028Z43
o0094	KC2020	08	06.93819	18	14	48.54	+39	49	38.2	17.6	GVEP028Z43
o0094	C2020	08	07.38451418	17	05.03	+38	51	34.3	17.37	oVEP028T05	
o0094	C2020	08	07.38774518	17	05.97	+38	51	08.4	17.56	oVEP028T05	
o0094	C2020	08	07.39511718	17	08.07	+38	50	09.1	17.23	oVEP028T05	
o0094	C2020	08	07.40620918	17	11.23	+38	48	40.1	17.27	oVEP028T05	
o6459	C2020	08	07.60206405	08	52.09	-04	10	17.7	18.81	oVEP028T08	
o6459	C2020	08	07.61221805	08	54.82	-04	10	43.0	18.70	oVEP028T08	
o6459	C2020	08	07.61873305	08	56.46	-04	10	58.3	18.70	oVEP028T08	
o6459	C2020	08	07.62564705	08	58.25	-04	11	15.9	18.91	oVEP028T08	
q3824	C2020	08	07.53687	01	32	28.629+34	15	45.14	21.1	iUEP028F51	
q3824	C2020	08	07.54936	01	32	30.421+34	16	04.56	21.3	iUEP028F51	
q3824	C2020	08	07.56183	01	32	32.222+34	16	24.41	21.0	iUEP028F51	

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