Comets reaching perihelion in 2021 – Supplementary List

Comet	T	q	P	N	H_1	K_1	Peak mag
D/Skiff-Kosai (1977 C1)	Jul 27.5	2.80	7.49	1			
P/SOHO (1999 J6)	Feb 16.8	0.04	5.34	3			
P/SOHO (1999 U2)	Apr 17.6	0.04	5.35	3			
P/LINEAR-NEAT (2004 R3)	Sep 29.8	3.54	10.47	1	14.5	10.0	22
P/McNaught (2005 L1)	Nov 2.5	3.14	7.93	1	9.5	10.0	16
P/Kowalski (2005 W3)	Sep 20.6	2.89	15.94	1	12.0	10.0	18
P/Christensen (2007 B1)	Jan 25.7	2.44	14.04	1	13.5	10.0	18
P/Garradd (2007 R4)	Dec 8.9	1.95	14.41	1	14.5	10.0	18
P/Lemmon (2008 CL_{94})	Sep 22.7	5.42	15.29	1	8.0	10.0	19
P/LINEAR (2008 WZ_{96})	Aug 26.5	1.85	6.53	1	13.5	10.0	17
P/McNaught (2009 U4)	Feb 1.1	1.65	11.45	1	14.0	10.0	18
P/LINEAR (2010 A5)	Oct 17.5	1.70	11.46	1	13.0	10.0	17
P/SOHO (2010 H3)	Feb 8.0	0.04	5.36	1			
P/Scotti (2011 A2)	Dec 1.7	1.55	5.47	1	16.5	10.0	19
P/La Sagra (2012 S2)	Oct 31.7	1.36	9.28	1	17.0	10.0	18
P/Tenagra (2012 TK_8)	Oct 26.2	3.00	8.39	1	9.0	10.0	15
P/Scotti (2013 A2)	Feb 15.7	2.19	8.04	1	15.5	10.0	19
P/Tenagra (2013 EW_{90})	Feb 15.6	3.31	8.35	1	12.0	10.0	19
P/Larson (2014 E1)	Jul 20.3	2.14	7.15	1	14.0	10.0	18
Sheppard-Trujillo (2014 F3)	May 19.5	5.69	60.8	0	6.0	10.0	17
P/PanSTARRS (2014 U4)	Feb 13.5	1.88	6.57	1	18.0	10.0	23
P/Gibbs (2014 W12)	Jun 19.2	1.67	6.60	1	15.0	10.0	18
P/PanSTARRS (2015 F1)	Oct 27.7	2.54	6.61	1	12.5	10.0	18
P/NEOWISE (2015 J3)	Apr 22.2	1.49	6.13	1	16.5	10.0	17
P/PanSTARRS (2016 BA_{14})	Jun 17.3	1.01	5.26	1	21.0	10.0	22
P/PanSTARRS (2016 G1)	Mar 22.2	2.04	4.15	1	14.0	10.0	18
P/PanSTARRS (2016 P1)	Jun 10.3	2.27	5.71	1	15.0	10.0	19
PanSTARRS (2016 Q2)	May 11.9	7.08			6.0	10.0	19
A/ (2017 MB_1)	May 2.8	0.59	3.66	1			
Lemmon (2018 U1)	Nov 3.1	4.99			5.0	10.0	15
PANSTARRS (2019 B3)	Jan 20.0	6.82			5.5	10.0	18
ATLAS-Africano (2019 F1)	Jun 22.9	3.60			5.5	10.0	13
A/[PanSTARRS] (2019 O3)	Mar 7.1	8.82			9.9	10.0	24
A/[PanSTARRS] (2019 T1)	Jan 14.1	4.28			13.6	5.0	20
A/[Lemmon] (2019 T2)	Apr 22.3	2.65			13.2	5.0	17
ATLAS (2019 T3)	Mar 2.7	5.95			5.0	12.0	18
MASTER (2020 F5)	Mar 24.2	4.33			5.0	12.0	15
A/[Lemmon] (2020 F7)	Nov 14.0	5.33			11.9	5.0	19
ATLAS (2020 H6)	Oct 1.0	4.70			8.0	8.0	16
SONEAR (2020 J1)	Apr 18.4	3.36			8.5	8.0	15
PanSTARRS (2020 K5)	Jun 5.6	1.54			12.0	7.5	14
Rankin (2020 K6)	Sep 15.3	5.87			10.0	7.5	19
P/Lemmon-PanSTARRS (2020 K9)	Feb 15.6	2.83	8.56	0	12.0	10.0	19
ATLAS (2020 M5)	Aug 19.9	3.00			9.0	10.0	16
PanSTARRS (2020 N1)	Mar 12.2	1.32			13.0	8.0	15
Amaral (2020 O2)	Aug 28.4	4.86			8.0	8.0	17
P/PanSTARRS (2020 O3)	Jan 29.8	4.17	10.1	0	12.5	10.0	21
ATLAS (2020 P3)	Apr 20.9	6.81			8.0	8.0	19
ATLAS (2020 R4)	Mar 1.9	1.03			14.0	8.0	13
P/PanSTARRS (2020 S1)	Jan 16.9	2.95	14.6	0	14.0	10.0	21
Lemmon (2020 S8)	Apr 10.9	2.36			13.5	8.0	17

Palomar (2020 T2)	Jul 11.2	2.05			11.0	8.0	14
P/PanSTARRS (2020 T3)	Jan 20.5	1.44	6.60	0	18.0	8.0	19
PanSTARRS (2020 T4)	Jul 5.3	2.19			13.0	8.0	18
Rankin (2020 U3)	Feb 6.0	2.28			15.0	8.0	20
4P/Faye	Sep 9.4	1.62	7.48	22	9.7	8.5	12
6P/d'Arrest	Sep 17.8	1.35	6.54	20	12.4	15.0	14
7P/Pons-Winnecke	May 27.1	1.23	6.31	24	10.7	10.0	10
8P/Tuttle	Aug 27.8	1.03	13.62	12	9.0	10.0	10
10P/Tempel	Mar 24.3	1.41	5.36	24	6.8	16.6	11
15P/Finlay	Jul 13.5	0.99	6.56	15	8.8	20.0	9
16P/Brooks	Apr 18.2	1.88	6.99	18	11.9	8.2	16
17P/Holmes	Feb 19.8	2.08	6.93	12	10.0	10.0	15 ?
28P/Neujmin	Mar 11.9	1.58	18.4	7	8.5	15.0	13
52P/Harrington-Abell	Oct 5.2	1.78	7.60	10	6.6	20.3	13
57P/du Toit-Neujmin-Delporte	Oct 17.4	1.72	6.40	9	12.5	15.0	17
67P/Churyumov-Gerasimenko	Nov 2.1	1.21	6.42	9	9.2	7.1	8
70P/Kojima	Nov 3.1	2.01	7.05	8	11.0	15.0	17
75D/Kohoutek	Mar 4.9	1.78	6.65	2			
98P/Takamizawa	Jan 4.9	1.66	7.40	5	12.1	10.0	16
102P/Shoemaker	Jan 22.4	2.07	7.45	5	8.0	15.0	15
106P/Schuster	Aug 18.8	1.53	7.30	5	10.0	15.0	14
108P/Ciffreo	Sep 10.1	1.66	7.23	5	11.7	10.0	14
110P/Hartley	Oct 18.3	2.46	6.84	5	5.5	20.0	15
111P/Helin-Roman-Crockett	Jun 16.5	3.71	8.44	3	5.0	20.0	19
120P/Mueller	May 7.1	2.48	7.88	4	12.0	10.0	18
132P/Helin-Roman-Alu	Nov 13.1	1.69	7.66	4	10.1	10.0	12
142P/Ge-Wang	May 12.8	2.51	11.21	3	9.0	10.0	15
158P/Kowal-LINEAR	May 10.9	4.80	11.10	3	9.0	10.0	19
173P/Mueller	Dec 16.7	4.22	13.63	2	7.5	10.0	16
191P/McNaught	Mar 20.1	2.23	6.93	3	13.0	10.0	19
193P/LINEAR-NEAT	Aug 25.3	2.17	6.77	3	11.4	10.0	15
201P/LONEOS	May 26.7	1.22	6.14	3	12.7	10.0	15
206P/Barnard-Boattini	Mar 4.5	1.56	6.51	3	19.0	10.0	23
221P/LINEAR	Dec 18.1	1.75	6.42	3	14.0	10.0	19
241P/LINEAR	Jul 25.4	1.92	10.96	2	13.5	10.0	18
246P/NEAT	Feb 22.8	2.86	8.05	2	2.5	15.0	11
252P/LINEAR	Jul 10.9	1.00	5.33	3	10.7	20.0	12
265P/LINEAR	Feb 9.0	1.50	8.77	2	14.5	10.0	18
282P/LONEOS (323137)	Oct 24.1	3.44	8.74	2	13.5	5.0	18
283P/Spacewatch	Sep 8.0	2.13	8.42	3	16.0	10.0	22
284P/McNaught	Sep 12.7	2.30	7.06	2	13.0	10.0	17
297P/Beshore	Jan 22.9	2.34	6.39	2	6.9	10.0	12
320P/McNaught	Jan 17.1	0.97	5.44	2	20.5	10.0	22
323P/SOHO	Jan 17.7	0.04	4.15	5			
324P/La Sagra	May 6.0	2.62	5.45	2	13.0	10.0	19
332P/Ikeya-Murakami	Aug 18.4	1.58	5.43	2	18.0	10.0	21
342P/SOHO	Oct 19.4	0.05	5.31	4	20.0	10.0	7
395P/Catalina-NEAT	Dec 30.5	4.06	16.8	2	10.0	10.0	19
399P/PanSTARRS	May 22.6	2.10	7.38	1	14.0	10.0	20
400P/PanSTARRS	Feb 10.1	2.10	6.71	1	15.5	7.0	19
402P/LINEAR	Dec 14.5	3.94	18.6	1	6.0	10.0	16
4nnP/LONEOS-Hill (2020 V1)	Jan 28.2	1.75	14.9	1	14.0	10.0	16

The date of perihelion (T), perihelion distance (q), period (P), the number of previously observed returns (N), the magnitude parameters H_1 and K_1 and the brightest magnitude (which must be regarded as uncertain) are given for each

comet. The magnitudes, orbits, and in particular the time of perihelion of the D/ comets are uncertain. The SOHO comets are only likely to be observed by satellite and some of the linkages are uncertain. 17P underwent a massive outburst in 2007 making it a naked eye object. Whilst this is unlikely to repeat, smaller outbursts are possible. 332P/Ikeya-Murakami was discovered when in outburst in 2010 and multiple components were observed at the next return in 2016. 342P will be in solar conjunction when brightest and therefore only visible in satellite coronagraphs. 2017 MB_1 showed cometary features, but has not been named. Periodic comet numbers greater than 395 are provisional.

Note: $m_1 = H_1 + 5.0 * \log(d) + K_1 * \log(r)$