2018 TB

First observed at ATLAS-HKO, Haleakala on 2018-10-02.
(Discoverer will be defined when the object is numbered. See this note on how discoverers are determined.)

Orbit

Orbit type: Amor
Near-Earth Object

Interactive Orbit Sketch   Note: WebGL enabled browser required.

epoch	2019-04-27.0	semimajor axis (AU)	2.3953783	uncertainty	4
epoch JD	2458600.5	mean anomaly (°)	57.77441	reference	MPO 473504
perihelion date	2018-09-21.68341	mean daily motion (°/day)	0.26585370	observations used	192
perihelion JD	2458383.18341	aphelion distance (AU)	3.789	oppositions	1
argument of perihelion (°)	341.16091	period (years)	3.71	arc length (days)	48
ascending node (°)	14.41232	P-vector [x]	0.99685704	first opposition used	2018
inclination (°)	3.61330	P-vector [y]	-0.06215023	last opposition used	2018
eccentricity	0.5818644	P-vector [z]	-0.04912630	residual rms (arc-secs)	0.36
perihelion distance (AU)	1.0015930	Q-vector [x]	0.07765301	perturbers coarse indicator	M-v
Tisserand w.r.t. Jupiter	3.3	Q-vector [y]	0.88934742	perturbers precise indicator	003Eh
ΔV w.r.t. Earth (km/sec)	6.4	Q-vector [z]	0.45058980	first observation date used	2018-10-02.0
		absolute magnitude	24.9	last observation date used	2018-11-19.0
		phase slope	0.15	computer name	MPCLINUX

JD of orbit computation	2458504.623011
perihelion JD uncertainty (days)	8.4064E-06
argument of perihelion uncertainty (°)	6.2281E-05
ascending node uncertainty (°)	1.3028E-05
inclination uncertainty (°)	4.3862E-05
eccentricity uncertainty	1.0125E-05
perihelion distance uncertainty (AU)	3.2722E-08

Minimum Orbit Intersection Distances (in AU)
for orbit epoch: 2458600.5, reference: E2019-B60

Mercury	0.63062
Venus	0.27661
Earth	0.0109
Mars	0.05653
Jupiter	1.65219
Saturn	5.67158
Uranus	14.4508
Neptune	26.5707

Observations

200 total observations over interval: 2018 10 02.42196 – 2018 11 19.45773
These data are available for download (format description).

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2018 10 02.42196	00 40 13.41	-28 59 08.0	16.3 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.42533	00 40 26.21	-28 55 44.6	16.3 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.42762	00 40 34.87	-28 53 27.3	16.3 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.43486	00 41 02.28	-28 46 10.5	16.3 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.51471	00 45 59.96	-27 24 48.3	16.0 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.51477	00 46 00.90	-27 24 56.0	16.3 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.51517	00 46 01.70	-27 24 19.7	16.5 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.51523	00 46 02.64	-27 24 27.2	16.4 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.51569	00 46 04.31	-27 23 59.4	16.4 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.51878	00 46 15.01	-27 20 38.0	16.4 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.52381	00 46 34.43	-27 15 38.8	16.6 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.52498	00 47 22.28	-27 05 19.7	17.2 V	Q66 – Siding Spring-Janess-G, JAXA	MPS 919378
2018 10 02.52637	00 47 27.37	-27 03 57.2	17.2 V	Q66 – Siding Spring-Janess-G, JAXA	MPS 919378
2018 10 02.52734	00 46 46.67	-27 11 50.9	16.4 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.53194	00 47 04.41	-27 07 18.8	16.2 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.53401	00 47 11.40	-27 04 57.8	16.6 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.54006	00 47 34.29	-26 58 59.7	16.6 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.54262	00 47 43.14	-26 56 07.3	16.5 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.54817	00 48 04.29	-26 50 36.9	16.5 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.548495	00 48 48.51	-26 41 46.1	16.6 G	Q62 – iTelescope Observatory, Siding Spring	MPS 919378
2018 10 02.549363	00 48 51.69	-26 40 53.3	16.5 G	Q62 – iTelescope Observatory, Siding Spring	MPS 919378
2018 10 02.550231	00 48 54.81	-26 40 01.6	16.6 G	Q62 – iTelescope Observatory, Siding Spring	MPS 919378
2018 10 02.55051	00 48 12.27	-26 47 59.7	16.3 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.55694	00 48 35.89	-26 41 23.0	16.3 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 02.55905	00 48 44.39	-26 39 24.6	17.1 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 02.604429	00 51 56.80	-25 42 24.8	17.0 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 02.605256	00 51 59.82	-25 41 33.8	16.9 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 02.606495	00 52 04.28	-25 40 18.5	16.7 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 02.606908	00 52 05.79	-25 39 53.0	16.6 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 02.608145	00 52 10.23	-25 38 37.2	16.5 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 02.68391	00 56 48.98	-24 24 16.5	17.3 V	Q66 – Siding Spring-Janess-G, JAXA	MPS 919378
2018 10 02.68530	00 56 53.81	-24 22 52.7	17.3 V	Q66 – Siding Spring-Janess-G, JAXA	MPS 919378
2018 10 02.70654	00 58 07.57	-24 01 11.8	16.6 V	Q62 – iTelescope Observatory, Siding Spring	MPS 919378
2018 10 02.73894	00 59 59.81	-23 28 02.1	16.4 V	Q62 – iTelescope Observatory, Siding Spring	MPS 919378
2018 10 02.74108	01 00 07.25	-23 25 50.6	16.3 V	Q62 – iTelescope Observatory, Siding Spring	MPS 919378
2018 10 02.90177	01 10 19.34	-20 58 59.9	16.1 G	595 – Farra d'Isonzo	MPS 919378
2018 10 02.90273	01 10 22.42	-20 58 03.9	16.2 G	595 – Farra d'Isonzo	MPS 919378
2018 10 02.90368	01 10 25.48	-20 57 07.8	16.1 G	595 – Farra d'Isonzo	MPS 919378
2018 10 02.90655	01 10 34.63	-20 54 18.6	16.2 G	595 – Farra d'Isonzo	MPS 919378
2018 10 02.94657	01 12 36.89	-20 15 17.4	15.9 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 02.94796	01 12 41.23	-20 13 55.1	16.2 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 02.95080	01 12 50.08	-20 11 08.3	15.9 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 02.95221	01 12 54.51	-20 09 44.7	16.3 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 02.980962	01 14 26.97	-19 41 20.6	16.6 G	L01 – Visnjan Observatory, Tican	MPS 919378
2018 10 02.982540	01 14 31.80	-19 39 48.6	16.7 G	L01 – Visnjan Observatory, Tican	MPS 919378
2018 10 02.983337	01 14 34.23	-19 39 01.1	16.6 G	L01 – Visnjan Observatory, Tican	MPS 919378
2018 10 02.984120	01 14 36.65	-19 38 15.4	17.0 G	L01 – Visnjan Observatory, Tican	MPS 919378
2018 10 02.984909	01 14 39.06	-19 37 29.2	16.8 G	L01 – Visnjan Observatory, Tican	MPS 919378
2018 10 03.044026	01 17 47.13	-18 40 23.4	16.6 G	J95 – Great Shefford	MPS 919378
2018 10 03.044977	01 17 49.99	-18 39 28.2	16.4 G	J95 – Great Shefford	MPS 919378
2018 10 03.045945	01 17 52.91	-18 38 31.2	16.5 G	J95 – Great Shefford	MPS 919378
2018 10 03.13683	01 22 23.95	-17 08 35.8	16.4 V	G40 – Slooh.com Canary Islands Observatory	MPS 919378
2018 10 03.14353	01 22 42.95	-17 02 10.8	16.2 V	G40 – Slooh.com Canary Islands Observatory	MPS 919378
2018 10 03.15049	01 23 02.72	-16 55 29.4	16.3 V	G40 – Slooh.com Canary Islands Observatory	MPS 919378
2018 10 03.26379	01 29 06.21	-15 10 44.5	16.7 G	H36 – Sandlot Observatory, Scranton	MPS 919378
2018 10 03.26513	01 29 09.78	-15 09 30.4	16.7 G	H36 – Sandlot Observatory, Scranton	MPS 919378
2018 10 03.26781	01 29 17.01	-15 07 01.7	16.6 G	H36 – Sandlot Observatory, Scranton	MPS 919378
2018 10 03.26953	01 29 21.61	-15 05 26.9	16.6 G	H36 – Sandlot Observatory, Scranton	MPS 919378
2018 10 03.50819	01 40 03.99	-11 28 40.7	16.6 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 03.533365	01 41 24.81	-10 55 42.9	16.7 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 03.53340	01 41 03.83	-11 06 45.5	16.3 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 03.534882	01 41 28.45	-10 54 24.7	16.8 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 03.536398	01 41 32.11	-10 53 06.8	16.5 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 03.537915	01 41 35.74	-10 51 48.6	16.9 G	474 – Mount John Observatory, Lake Tekapo	MPS 919378
2018 10 03.54346	01 41 27.62	-10 58 02.8	16.6 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 03.55419	01 41 52.94	-10 48 47.4	16.5 o	T05 – ATLAS-HKO, Haleakala	MPS 919378
2018 10 03.89674	01 56 12.89	-06 13 38.1	16.5 V	C77 – Bernezzo Observatory	MPS 919378
2018 10 03.89810	01 56 15.76	-06 12 36.2	16.9 V	C77 – Bernezzo Observatory	MPS 919378
2018 10 03.90161	01 56 23.12	-06 09 55.4	16.9 V	C77 – Bernezzo Observatory	MPS 919378
2018 10 03.912282	01 56 45.87	-06 02 25.1	16.6 G	J69 – North Observatory, Clanfield	MPS 919378
2018 10 03.91610	01 56 47.33	-05 59 23.4	16.3 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 03.916338	01 56 54.42	-05 59 20.9	16.5 G	J69 – North Observatory, Clanfield	MPS 919378
2018 10 03.91788	01 56 50.99	-05 58 02.4	16.4 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 03.91965	01 56 54.65	-05 56 41.3	16.4 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 03.920393	01 57 02.94	-05 56 17.5	16.2 G	J69 – North Observatory, Clanfield	MPS 919378
2018 10 03.92143	01 56 58.30	-05 55 20.5	16.3 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 03.924445	01 57 11.40	-05 53 12.4	16.6 G	J69 – North Observatory, Clanfield	MPS 919378
2018 10 03.954074	01 58 09.56	-05 30 16.3	16.5 R	K63 – G. Pascoli Observatory, Castelvecchio Pascoli	MPS 919378
2018 10 03.956991	01 58 15.46	-05 28 05.1	16.6 R	K63 – G. Pascoli Observatory, Castelvecchio Pascoli	MPS 919378
2018 10 03.960197	01 58 21.89	-05 25 41.8	16.6 R	K63 – G. Pascoli Observatory, Castelvecchio Pascoli	MPS 919378
2018 10 03.983038	01 59 10.90	-05 09 22.1	16.2 G	Z80 – Northolt Branch Observatory	MPS 919378
2018 10 03.985572	01 59 15.98	-05 07 30.3	16.7 G	Z80 – Northolt Branch Observatory	MPS 919378
2018 10 03.988117	01 59 21.04	-05 05 36.4	16.6 G	Z80 – Northolt Branch Observatory	MPS 919378
2018 10 04.05788	02 02 06.90	-04 01 58.6	16.5 V	X31 – Galileo Galilei Observatory, Oro Verde	MPS 919378
2018 10 04.05893	02 02 09.03	-04 01 12.5	16.8 V	X31 – Galileo Galilei Observatory, Oro Verde	MPS 919378
2018 10 04.05999	02 02 11.09	-04 00 27.4	16.9 V	X31 – Galileo Galilei Observatory, Oro Verde	MPS 919378
2018 10 04.08556	02 02 27.04	-03 54 00.9		204 – Schiaparelli Observatory	MPS 919378
2018 10 04.08721	02 02 30.20	-03 52 49.9		204 – Schiaparelli Observatory	MPS 919378
2018 10 04.08886	02 02 33.34	-03 51 39.0		204 – Schiaparelli Observatory	MPS 919378
2018 10 04.09051	02 02 36.49	-03 50 28.1		204 – Schiaparelli Observatory	MPS 919378
2018 10 04.09215	02 02 39.62	-03 49 17.6	16.7 G	204 – Schiaparelli Observatory	MPS 919378
2018 10 04.34480	02 10 54.62	-00 55 49.4	16.3 R	850 – Cordell-Lorenz Observatory, Sewanee	MPS 919378
2018 10 04.35190	02 11 06.53	-00 51 14.0	16.4 R	850 – Cordell-Lorenz Observatory, Sewanee	MPS 919378
2018 10 04.35907	02 11 18.59	-00 46 36.1	16.9 R	850 – Cordell-Lorenz Observatory, Sewanee	MPS 919378
2018 10 04.36835	02 11 34.17	-00 40 37.0	16.5 R	850 – Cordell-Lorenz Observatory, Sewanee	MPS 919378
2018 10 04.37544	02 11 46.07	-00 36 03.4	16.5 R	850 – Cordell-Lorenz Observatory, Sewanee	MPS 919378
2018 10 04.38253	02 11 57.98	-00 31 30.7	16.2 R	850 – Cordell-Lorenz Observatory, Sewanee	MPS 919378
2018 10 04.89567	02 26 38.39	+04 24 09.7	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89663	02 26 39.74	+04 24 40.0	16.6 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89727	02 26 40.64	+04 24 59.9	16.8 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89759	02 26 41.05	+04 25 10.0	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89791	02 26 41.50	+04 25 20.0	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89823	02 26 41.94	+04 25 29.8	16.6 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89887	02 26 42.84	+04 25 50.0	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89919	02 26 43.29	+04 26 00.1	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.89983	02 26 44.18	+04 26 20.2	16.6 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90046	02 26 45.06	+04 26 40.2	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90078	02 26 45.51	+04 26 50.0	16.8 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90142	02 26 46.40	+04 27 10.1	16.7 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90206	02 26 47.29	+04 27 30.0	16.8 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90302	02 26 48.61	+04 28 00.2	16.8 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90366	02 26 49.53	+04 28 20.3	16.9 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90430	02 26 50.40	+04 28 40.3	16.8 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 04.90462	02 26 50.85	+04 28 50.1	16.8 R	K88 – GINOP-KHK, Piszkesteto	MPS 919378
2018 10 05.23683	02 34 45.02	+07 12 09.7	17.2 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919378
2018 10 05.24035	02 34 49.33	+07 13 46.5	17.5 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919378
2018 10 05.24047	02 34 49.47	+07 13 50.3	17.3 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919378
2018 10 05.24060	02 34 49.63	+07 13 53.7	17.1 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919378
2018 10 05.32810	02 36 31.79	+07 53 13.1	17.4 G	703 – Catalina Sky Survey	MPS 919378
2018 10 05.33335	02 36 37.71	+07 55 32.7	17.2 G	703 – Catalina Sky Survey	MPS 919378
2018 10 05.33911	02 36 44.17	+07 58 03.6	17.5 G	703 – Catalina Sky Survey	MPS 919378
2018 10 05.34487	02 36 50.65	+08 00 35.8	17.3 G	703 – Catalina Sky Survey	MPS 919378
2018 10 05.505333	02 40 03.901	+09 09 55.72	17.93 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 919378
2018 10 05.506399	02 40 05.002	+09 10 21.86	17.62 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 919378
2018 10 05.91420	02 47 55.83	+11 41 13.0	18.4 R	246 – Klet Observatory-KLENOT	MPS 919378
2018 10 05.91429	02 47 55.93	+11 41 14.6		246 – Klet Observatory-KLENOT	MPS 919378
2018 10 05.91439	02 47 56.04	+11 41 17.0		246 – Klet Observatory-KLENOT	MPS 919378
2018 10 05.91450	02 47 56.12	+11 41 19.7		246 – Klet Observatory-KLENOT	MPS 919378
2018 10 05.91460	02 47 56.22	+11 41 21.9		246 – Klet Observatory-KLENOT	MPS 919378
2018 10 05.91481	02 47 56.44	+11 41 26.0		246 – Klet Observatory-KLENOT	MPS 919378
2018 10 05.91491	02 47 56.53	+11 41 28.0		246 – Klet Observatory-KLENOT	MPS 919378
2018 10 06.538973	02 57 31.822	+14 59 01.38	17.84 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 06.539475	02 57 32.180	+14 59 09.65	17.96 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 06.54525	02 57 36.34	+15 00 46.6	17.7 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 06.55114	02 57 40.56	+15 02 23.6	18.1 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 06.57248	02 57 55.77	+15 08 11.7	17.7 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 06.58511	02 58 04.80	+15 11 36.0	17.8 o	T08 – ATLAS-MLO, Mauna Loa	MPS 919378
2018 10 08.52172	03 18 57.51	+21 38 44.1	18.6 R	291 – LPL/Spacewatch II	MPS 924974
2018 10 08.52225	03 18 57.72	+21 38 48.3	18.8 R	291 – LPL/Spacewatch II	MPS 924974
2018 10 08.52277	03 18 57.94	+21 38 52.7	18.6 R	291 – LPL/Spacewatch II	MPS 924974
2018 10 09.37157	03 25 23.50	+23 29 11.6	18.5	H21 – Astronomical Research Observatory, Westfield	MPS 924974
2018 10 09.37507	03 25 24.62	+23 29 35.5	18.5	H21 – Astronomical Research Observatory, Westfield	MPS 924974
2018 10 09.37858	03 25 25.73	+23 29 59.4	18.4	H21 – Astronomical Research Observatory, Westfield	MPS 924974
2018 10 09.38208	03 25 26.85	+23 30 23.3	18.4	H21 – Astronomical Research Observatory, Westfield	MPS 924974
2018 10 09.38559	03 25 27.98	+23 30 47.1	18.5	H21 – Astronomical Research Observatory, Westfield	MPS 924974
2018 10 10.27986	03 31 03.63	+25 03 07.3	19.0 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 924974
2018 10 10.28166	03 31 04.12	+25 03 17.8	18.8 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 924974
2018 10 10.28345	03 31 04.59	+25 03 28.4	19.0 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 924974
2018 10 10.28463	03 31 04.91	+25 03 35.4	18.9 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 924974
2018 10 10.33717	03 31 18.24	+25 08 36.9	19.4 G	G96 – Mt. Lemmon Survey	MPS 924974
2018 10 10.34232	03 31 19.50	+25 09 05.8	19.4 G	G96 – Mt. Lemmon Survey	MPS 924974
2018 10 10.34746	03 31 20.74	+25 09 34.6	19.4 G	G96 – Mt. Lemmon Survey	MPS 924974
2018 10 10.35259	03 31 22.00	+25 10 03.4	19.4 G	G96 – Mt. Lemmon Survey	MPS 924974
2018 10 10.562319	03 32 20.464	+25 29 20.35	19.26 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 10.562905	03 32 20.592	+25 29 23.32	19.28 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 10.563764	03 32 20.780	+25 29 27.62	19.28 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 10.564479	03 32 20.937	+25 29 31.25	19.25 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 11.476698	03 36 42.049	+26 40 15.33	19.78 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 11.477219	03 36 42.136	+26 40 17.57	19.45 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 924974
2018 10 12.90849	03 41 58.48	+28 05 12.2		246 – Klet Observatory-KLENOT	MPS 924974
2018 10 12.90869	03 41 58.50	+28 05 11.9		246 – Klet Observatory-KLENOT	MPS 924974
2018 10 12.90894	03 41 58.58	+28 05 13.4		246 – Klet Observatory-KLENOT	MPS 924974
2018 10 12.91083	03 41 58.80	+28 05 18.9	19.2	246 – Klet Observatory-KLENOT	MPS 924974
2018 10 12.91145	03 41 58.93	+28 05 22.1		246 – Klet Observatory-KLENOT	MPS 924974
2018 10 18.45760	03 52 43.75	+31 10 37.2	21.0 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 18.45954	03 52 43.87	+31 10 40.5	20.5 R	291 – LPL/Spacewatch II	MPS 928698
2018 10 18.46024	03 52 43.83	+31 10 39.9	20.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 18.46530	03 52 43.98	+31 10 45.2	20.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 18.46637	03 52 44.03	+31 10 47.9	20.8 R	291 – LPL/Spacewatch II	MPS 928698
2018 10 18.47022	03 52 44.09	+31 10 51.1	20.1 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 18.47402	03 52 44.23	+31 10 56.3	21.1 R	291 – LPL/Spacewatch II	MPS 928698
2018 10 20.41058	03 54 33.45	+31 45 15.0	20.4 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 20.41618	03 54 33.50	+31 45 20.3	21.0 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 20.42286	03 54 33.51	+31 45 25.5	20.7 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 20.45366	03 54 33.67	+31 45 51.0	21.2 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 928698
2018 10 21.33914	03 55 13.38	+31 58 26.5	20.5 R	695 – Kitt Peak	MPS 928698
2018 10 21.34644	03 55 13.37	+31 58 33.0	20.7 R	695 – Kitt Peak	MPS 928698
2018 10 21.35375	03 55 13.36	+31 58 39.3	20.7 R	695 – Kitt Peak	MPS 928698
2018 10 21.47685	03 55 13.08	+32 00 10.3	21.3 G	G96 – Mt. Lemmon Survey	MPS 928698
2018 10 21.48201	03 55 13.04	+32 00 12.6	21.1 G	G96 – Mt. Lemmon Survey	MPS 928698
2018 10 21.48989	03 55 13.10	+32 00 18.4	21.2 G	G96 – Mt. Lemmon Survey	MPS 928698
2018 10 21.50000	03 55 13.11	+32 00 25.1	21.0 G	G96 – Mt. Lemmon Survey	MPS 928698
2018 10 29.287625	03 56 26.04	+32 57 08.4	22.1 V	H21 – Astronomical Research Observatory, Westfield	MPS 952924
2018 10 29.300225	03 56 25.59	+32 57 10.9	22.1 V	H21 – Astronomical Research Observatory, Westfield	MPS 952924
2018 10 29.310182	03 56 25.26	+32 57 12.6	22.0 V	H21 – Astronomical Research Observatory, Westfield	MPS 952924
2018 11 02.500964	03 55 12.175	+33 03 23.10	22.39 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 931507
2018 11 02.503555	03 55 12.049	+33 03 22.97	22.31 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 931507
2018 11 03.42286	03 54 49.09	+33 02 52.4		291 – LPL/Spacewatch II	MPS 931507
2018 11 03.43787	03 54 48.35	+33 02 50.5		291 – LPL/Spacewatch II	MPS 931507
2018 11 03.45287	03 54 47.78	+33 02 48.6		291 – LPL/Spacewatch II	MPS 931507
2018 11 06.563374	03 53 22.002	+32 58 31.46	22.44 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 931507
2018 11 06.565268	03 53 21.910	+32 58 31.05	22.51 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 931507
2018 11 09.48056	03 51 51.84	+32 50 03.8	22.4 R	291 – LPL/Spacewatch II	MPS 931507
2018 11 09.49636	03 51 51.16	+32 49 58.5	22.2 R	291 – LPL/Spacewatch II	MPS 931507
2018 11 09.51219	03 51 50.53	+32 49 52.9	22.8 R	291 – LPL/Spacewatch II	MPS 931507
2018 11 14.631715	03 49 09.030	+32 28 25.17	23.19 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 938901
2018 11 14.635142	03 49 08.898	+32 28 23.80	23.67 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 938901
2018 11 19.43831	03 46 51.98	+32 02 37.2	22.6 R	695 – Kitt Peak	MPS 937256
2018 11 19.44802	03 46 51.65	+32 02 33.4	23.0 R	695 – Kitt Peak	MPS 937257
2018 11 19.45773	03 46 51.31	+32 02 29.3	22.9 R	695 – Kitt Peak	MPS 937257

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