

OBSERVERS

DATA

IAWN

BETA

STATUS

2017 UK3

First observed at Pan-STARRS 1, Haleakala on 2017-10-22.

(Discoverer will be defined when the object is numbered. See [this note](#) on how discoverers are determined.)

Orbit

Orbit type: Apollo

Near-Earth Object

One opposition object seen prior.

Interactive Orbit Sketch

Note: WebGL enabled browser required.

epoch	2019-04-27.0	semimajor axis (AU)	1.9834780	uncertainty	6
epoch JD	2458600.5	mean anomaly (°)	179.46321	reference	MPO 421537
perihelion date	2017-12-04.35746	mean daily motion (°/day)	0.35282780	observations used	26
perihelion JD	2458091.85746	aphelion distance (AU)	3.151	oppositions	1
argument of perihelion (°)	52.65200	period (years)	2.79	arc length (days)	1
ascending node (°)	37.26417	P-vector [x]	0.00153855	first opposition used	2017
inclination (°)	1.01456	P-vector [y]	0.91179097	last opposition used	2017
eccentricity	0.5885940	P-vector [z]	0.41065176	residual rms (arc-secs)	0.46
perihelion distance (AU)	0.8160147	Q-vector [x]	-0.99994134	perturbbers coarse indicator	M-v
Tisserand w.r.t. Jupiter	3.6	Q-vector [y]	-0.00299989	perturbbers precise indicator	003Eh
ΔV w.r.t. Earth (km/sec)	6.6	Q-vector [z]	0.01040718	first observation date used	2017-10-22.0
		absolute magnitude	27.4	last observation date used	2017-10-23.0
		phase slope	0.15	computer name	MPCW

JD of orbit computation	2458050.514479
perihelion JD uncertainty (days)	2.1444E-03
argument of perihelion uncertainty (°)	2.6467E-04
ascending node uncertainty (°)	8.1955E-04
inclination uncertainty (°)	1.0256E-04
eccentricity uncertainty	1.2165E-04
perihelion distance uncertainty (AU)	2.6405E-05

Minimum Orbit Intersection Distances (in AU)

for orbit epoch: 2458600.5, reference: MPO421537

Mercury	0.50809
Venus	0.09633
Earth	0.00192
Mars	0.01729
Jupiter	2.09244
Saturn	6.91746
Uranus	15.8606
Neptune	27.0735

Observations

28 total observations over interval: 2017 10 22.38109 – 2017 10 23.81681

These data are available for [download](#) ([format description](#)).

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2017 10 22.38109	00 27 50.275	-05 41 37.45	19.9 w	F51 – Pan-STARRS 1, Haleakala	MPS 828404
2017 10 22.38456	00 27 47.616	-05 42 19.71		F51 – Pan-STARRS 1, Haleakala	MPS 828404
2017 10 22.39576	00 27 39.009	-05 44 37.35	20.1 w	F51 – Pan-STARRS 1, Haleakala	MPS 828404
2017 10 22.41045	00 27 27.651	-05 47 38.86	20.1 w	F51 – Pan-STARRS 1, Haleakala	MPS 828404
2017 10 22.42510	00 27 16.252	-05 50 41.78	20.1 w	F51 – Pan-STARRS 1, Haleakala	MPS 828404
2017 10 23.22951	00 15 32.52	-09 59 12.4	19.1 G	703 – Catalina Sky Survey	MPS 828404
2017 10 23.24047	00 15 15.27	-10 04 09.4	17.7 G	703 – Catalina Sky Survey	MPS 828404
2017 10 23.24596	00 15 06.75	-10 06 37.3	18.9 G	703 – Catalina Sky Survey	MPS 828404
2017 10 23.273384	00 14 20.95	-10 19 22.3	19.0 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 828404
2017 10 23.278579	00 14 12.55	-10 21 47.5	18.6 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 828404
2017 10 23.288908	00 13 55.73	-10 26 38.3	19.4 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 828404
2017 10 23.29473	00 13 48.07	-10 29 12.2	18.6 G	703 – Catalina Sky Survey	MPS 828404
2017 10 23.29514	00 13 47.38	-10 29 24.3	18.3 G	703 – Catalina Sky Survey	MPS 828404
2017 10 23.29554	00 13 46.71	-10 29 35.9		703 – Catalina Sky Survey	MPS 828404
2017 10 23.29594	00 13 46.10	-10 29 47.1		703 – Catalina Sky Survey	MPS 828404
2017 10 23.299271	00 13 38.69	-10 31 33.7	18.8 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 828404
2017 10 23.31654	00 13 11.76	-10 39 41.9	19.0 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 828404
2017 10 23.31730	00 13 10.48	-10 40 03.9	18.9 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 828404
2017 10 23.31823	00 13 08.93	-10 40 30.9	19.2 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 828404
2017 10 23.31969	00 13 06.45	-10 41 13.9	19.2 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 828404
2017 10 23.80893	23 56 56.23	-16 18 53.2	17.9	K63 – G. Pascoli Observatory, Castelveccchio Pascoli	MPS 828404
2017 10 23.81175	23 56 47.15	-16 21 35.3	18.2	K63 – G. Pascoli Observatory, Castelveccchio Pascoli	MPS 828404
2017 10 23.81203	23 56 46.09	-16 21 49.4	18.9 R	160 – Castelmartini	MPS 828404
2017 10 23.81341	23 56 41.47	-16 23 10.7	18.9 R	160 – Castelmartini	MPS 828404
2017 10 23.81409	23 56 39.35	-16 23 49.3		160 – Castelmartini	MPS 828404
2017 10 23.81479	23 56 37.01	-16 24 31.2	18.8 R	160 – Castelmartini	MPS 828404
2017 10 23.81616	23 56 32.60	-16 25 49.0		160 – Castelmartini	MPS 828404
2017 10 23.81681	23 56 30.63	-16 26 28.5	18.5	K63 – G. Pascoli Observatory, Castelveccchio Pascoli	MPS 828404