

OBSERVERS

DATA

IAWN

BETA

STATUS

2018 RQ4

First observed at Mt. Lemmon Survey on 2018-09-11.

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

Orbit

Orbit type: Apollo

Near-Earth Object

Interactive Orbit Sketch

Note: WebGL enabled browser required.

epoch	2018-03-23.0	semimajor axis (AU)	1.6155879	uncertainty	6
epoch JD	2458200.5	mean anomaly (°)	259.12544	reference	MPO 452105
perihelion date	2018-10-19.17143	mean daily motion (°/day)	0.47996320	observations used	36
perihelion JD	2458410.67143	aphelion distance (AU)	2.270	oppositions	1
argument of perihelion (°)	129.51632	period (years)	2.05	arc length (days)	7
ascending node (°)	263.78496	P-vector [x]	0.83578070	first opposition used	2018
inclination (°)	0.35151	P-vector [y]	0.50185453	last opposition used	2018
eccentricity	0.4048684	P-vector [z]	0.22273897	residual rms (arc-secs)	0.43
perihelion distance (AU)	0.9614874	Q-vector [x]	-0.54902953	perturbers coarse indicator	M-v
Tisserand w.r.t. Jupiter	4.2	Q-vector [y]	0.76837863	perturbers precise indicator	003Eh
ΔV w.r.t. Earth (km/sec)	5.2	Q-vector [z]	0.32887818	first observation date used	2018-09-11.0
		absolute magnitude	26.9	last observation date used	2018-09-18.0
		phase slope	0.15	computer name	MPCLINUX

JD of orbit computation	2458379.960077
perihelion JD uncertainty (days)	1.1545E-03
argument of perihelion uncertainty (°)	2.7119E-03
ascending node uncertainty (°)	2.5605E-03
inclination uncertainty (°)	5.5898E-05
eccentricity uncertainty	7.4639E-05
perihelion distance uncertainty (AU)	4.5610E-06

Minimum Orbit Intersection Distances (in AU)
for orbit epoch: 2458600.5, reference: MPO452105

Mercury	0.63264
Venus	0.23978
Earth	0.00251
Mars	0.04703
Jupiter	3.17554
Saturn	7.43709
Uranus	16.0849
Neptune	28.1262

Observations

36 total observations over interval: 2018 09 11.28110 – 2018 09 18.34140

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

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2018 09 11.28110	00 14 41.18	+10 52 00.1	21.4 G	G96 – Mt. Lemmon Survey	MPS 915329
2018 09 11.28635	00 14 45.50	+10 52 44.6	21.3 G	G96 – Mt. Lemmon Survey	MPS 915329
2018 09 11.29158	00 14 49.85	+10 53 27.5	20.8 G	G96 – Mt. Lemmon Survey	MPS 915329
2018 09 11.29680	00 14 54.19	+10 54 10.9	20.9 G	G96 – Mt. Lemmon Survey	MPS 915329
2018 09 11.40387	00 16 23.75	+11 09 05.1	21.2 G	V06 – Catalina Sky Survey-Kuiper	MPS 915329
2018 09 11.40618	00 16 25.69	+11 09 24.4	21.0 G	V06 – Catalina Sky Survey-Kuiper	MPS 915329
2018 09 11.40848	00 16 27.65	+11 09 43.6	21.2 G	V06 – Catalina Sky Survey-Kuiper	MPS 915329
2018 09 11.41078	00 16 29.60	+11 10 02.7	21.2 G	V06 – Catalina Sky Survey-Kuiper	MPS 915329
2018 09 11.89347	00 24 21.52	+12 18 45.2	21.1 V	O33 – Karl Schwarzschild Observatory, Tautenburg	MPS 915329
2018 09 11.89603	00 24 23.95	+12 19 08.7	20.4 V	O33 – Karl Schwarzschild Observatory, Tautenburg	MPS 915329
2018 09 11.89858	00 24 26.38	+12 19 31.6	20.1 V	O33 – Karl Schwarzschild Observatory, Tautenburg	MPS 915329
2018 09 11.90113	00 24 28.81	+12 19 54.7	20.1 V	O33 – Karl Schwarzschild Observatory, Tautenburg	MPS 915329
2018 09 11.935684	00 25 01.75	+12 25 24.8	21.1 G	L01 – Visnjan Observatory, Tican	MPS 915329
2018 09 11.937856	00 25 03.82	+12 25 44.6	21.3 G	L01 – Visnjan Observatory, Tican	MPS 915329
2018 09 12.267310	00 30 40.31	+13 16 22.2	21.5 V	H21 – Astronomical Research Observatory, Westfield	MPS 915329
2018 09 12.274843	00 30 47.74	+13 17 32.8	21.4 V	H21 – Astronomical Research Observatory, Westfield	MPS 915329
2018 09 12.28422	00 31 02.04	+13 19 21.3	20.7 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 915329
2018 09 12.28662	00 31 04.41	+13 19 44.4	20.3 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 915329
2018 09 12.288115	00 31 00.85	+13 19 36.6	21.4 V	H21 – Astronomical Research Observatory, Westfield	MPS 915329
2018 09 12.29326	00 31 10.99	+13 20 47.3	20.5 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 915329
2018 09 13.38907	00 52 22.33	+16 22 17.6	20.6 R	291 – LPL/Spacewatch II	MPS 915329
2018 09 13.39255	00 52 26.48	+16 22 54.0	20.4 R	291 – LPL/Spacewatch II	MPS 915329
2018 09 13.39606	00 52 30.66	+16 23 30.8	20.7 R	291 – LPL/Spacewatch II	MPS 915329
2018 09 15.30312	01 40 15.60	+22 17 46.1	20.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 15.30634	01 40 20.91	+22 18 23.9	20.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 15.31279	01 40 31.51	+22 19 39.8	20.2 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 15.569564	01 47 50.380	+23 10 00.18	21.03 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 919361
2018 09 15.570217	01 47 51.476	+23 10 07.56	21.31 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 919361
2018 09 15.570837	01 47 52.515	+23 10 14.52	21.19 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 919361
2018 09 16.32982	02 11 58.12	+25 32 02.2	21.4 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 16.33496	02 12 07.75	+25 33 00.7	20.8 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 16.33690	02 12 11.43	+25 33 22.3	21.1 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 16.33885	02 12 15.08	+25 33 44.0	20.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 919361
2018 09 18.33236	03 24 08.44	+30 45 57.1	21.6 R	291 – LPL/Spacewatch II	MPS 919361
2018 09 18.33682	03 24 18.21	+30 46 32.6	20.8 R	291 – LPL/Spacewatch II	MPS 919361
2018 09 18.34140	03 24 28.42	+30 47 07.2	20.4 R	291 – LPL/Spacewatch II	MPS 919361