

OBSERVERSDATAIAWN BETASTATUS

2019 JH7

First observed at Mt. Lemmon Survey on 2019-05-14.
(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.

A geocentric flyby diagram is available [here](#).

epoch	2019-04-27.0	semimajor axis (AU)	1.0197044	uncertainty	3
epoch JD	2458600.5	mean anomaly (°)	270.05242	reference	MPO 473650
perihelion date	2019-07-29.97170	mean daily motion (°/day)	0.95717730	observations used	78
perihelion JD	2458694.47170	aphelion distance (AU)	1.315	oppositions	1
argument of perihelion (°)	106.41512	period (years)	1.03	arc length (days)	2
ascending node (°)	233.40213	P-vector [x]	0.93838633	first opposition used	2019
inclination (°)	1.33985	P-vector [y]	-0.32532430	last opposition used	2019
eccentricity	0.2892196	P-vector [z]	-0.11659845	residual rms (arc-secs)	0.88
perihelion distance (AU)	0.7247859	Q-vector [x]	0.34507780	perturbers coarse indicator	M-v
Tisserand w.r.t. Jupiter	6.0	Q-vector [y]	0.86373198	perturbers precise indicator	003Eh
ΔV w.r.t. Earth (km/sec)	6.2	Q-vector [z]	0.36727152	first observation date used	2019-05-14.0
		absolute magnitude	29.6	last observation date used	2019-05-16.0
		phase slope	0.15	computer name	MPCLINUX

JD of orbit computation	2458619.932296
perihelion JD uncertainty (days)	2.7974E-04
argument of perihelion uncertainty (°)	1.8526E-04
ascending node uncertainty (°)	1.0697E-04
inclination uncertainty (°)	4.0264E-05
eccentricity uncertainty	2.6436E-06
perihelion distance uncertainty (AU)	1.8840E-06

Minimum Orbit Intersection Distances (in AU)
for orbit epoch: 2458600.5, reference: E2019-P36

Mercury	0.33001
Venus	0.05506
Earth	0.00045
Mars	0.3592
Jupiter	4.03834
Saturn	7.91796
Uranus	16.9332
Neptune	28.9395

Observations

78 total observations over interval: 2019 05 14.33827 – 2019 05 16.008371

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

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2019 05 14.33827	15 58 46.23	-21 51 29.3	19.8 G	G96 – Mt. Lemmon Survey	MPS 999871
2019 05 14.34386	15 58 45.56	-21 50 57.0	19.6 G	G96 – Mt. Lemmon Survey	MPS 999871
2019 05 14.35115	15 58 44.73	-21 50 14.9	19.7 G	G96 – Mt. Lemmon Survey	MPS 999871
2019 05 14.35674	15 58 44.13	-21 49 41.2	19.7 G	G96 – Mt. Lemmon Survey	MPS 999871
2019 05 14.400452	15 58 36.80	-21 45 07.1	20.1 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.405075	15 58 36.49	-21 44 34.7	19.5 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.414483	15 58 35.97	-21 43 27.4	19.6 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.420982	15 58 35.67	-21 42 39.9	19.7 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.42755	15 58 37.99	-21 41 46.4	19.4 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 14.42797	15 58 37.93	-21 41 42.8	19.4 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 14.42839	15 58 37.96	-21 41 40.1	19.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 14.42880	15 58 37.88	-21 41 36.8	19.5 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 14.434511	15 58 35.25	-21 40 58.4	19.8 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.44091	15 58 37.91	-21 40 01.8	19.6 R	Z91 – LPL/Spacewatch II	MPS 999871
2019 05 14.441091	15 58 35.15	-21 40 07.7	19.5 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.44255	15 58 37.85	-21 39 49.9	19.6 R	Z91 – LPL/Spacewatch II	MPS 999871
2019 05 14.44414	15 58 37.81	-21 39 37.1	19.5 R	Z91 – LPL/Spacewatch II	MPS 999871
2019 05 14.448217	15 58 35.12	-21 39 12.1	19.5 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.455812	15 58 35.21	-21 38 11.5	19.7 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 14.948636	16 03 50.510	-20 22 55.83	19.2 G	Z84 – Calar Alto-Schmidt	MPS 999871
2019 05 14.949940	16 03 50.760	-20 22 39.62	19.8 G	Z84 – Calar Alto-Schmidt	MPS 999871
2019 05 14.955625	16 03 51.948	-20 21 28.25	19.3 G	Z84 – Calar Alto-Schmidt	MPS 999871
2019 05 14.957364	16 03 52.295	-20 21 06.27	19.0 G	Z84 – Calar Alto-Schmidt	MPS 999871
2019 05 15.021200	16 04 00.53	-20 09 05.5	19.3 G	J95 – Great Shefford	MPS 999871
2019 05 15.026924	16 04 02.18	-20 07 36.7	18.6 G	J95 – Great Shefford	MPS 999871
2019 05 15.033815	16 04 04.21	-20 05 46.4	18.9 G	J95 – Great Shefford	MPS 999871
2019 05 15.16842	16 06 46.64	-18 46 19.8	19.0 V	807 – Cerro Tololo Observatory, La Serena	MPS 999871
2019 05 15.17424	16 06 48.71	-18 44 03.9	18.6 V	807 – Cerro Tololo Observatory, La Serena	MPS 999871
2019 05 15.18025	16 06 50.81	-18 41 40.7	18.5 V	807 – Cerro Tololo Observatory, La Serena	MPS 999871
2019 05 15.18608	16 06 52.85	-18 39 18.8	18.5 V	807 – Cerro Tololo Observatory, La Serena	MPS 999871
2019 05 15.25700	16 08 50.29	-18 41 25.9	17.8 R	691 – Steward Observatory, Kitt Peak-Spacewatch	MPS 999871
2019 05 15.26526	16 08 55.43	-18 37 49.7	17.7 R	691 – Steward Observatory, Kitt Peak-Spacewatch	MPS 999871
2019 05 15.27344	16 09 00.41	-18 34 09.4	17.8 R	691 – Steward Observatory, Kitt Peak-Spacewatch	MPS 999871
2019 05 15.308413	16 09 10.66	-18 18 17.7	17.7 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 15.312963	16 09 13.45	-18 15 55.3	17.8 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 15.31663	16 09 24.79	-18 13 14.9	17.7 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 15.31693	16 09 24.98	-18 13 05.4	17.6 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 15.31723	16 09 25.15	-18 12 56.0	17.4 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 15.31754	16 09 25.35	-18 12 46.4	17.7 G	I52 – Steward Observatory, Mt. Lemmon Station	MPS 999871
2019 05 15.327061	16 09 22.28	-18 08 18.0	17.9 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 15.330623	16 09 24.56	-18 06 18.7	17.7 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 999871
2019 05 15.67737	16 26 22.45	-11 33 12.1	16.4 R	P93 – Space Tracking and Communications Center, JAXA	MPS 999871
2019 05 15.67812	16 26 25.47	-11 31 30.2	16.8 R	P93 – Space Tracking and Communications Center, JAXA	MPS 999871
2019 05 15.67887	16 26 28.57	-11 29 46.0	17.0 R	P93 – Space Tracking and Communications Center, JAXA	MPS 999871
2019 05 15.67962	16 26 31.61	-11 28 01.8	16.8 R	P93 – Space Tracking and Communications Center, JAXA	MPS 999871
2019 05 15.907443	17 32 16.04	+11 41 40.1	15.3 G	J95 – Great Shefford	MPS 999871
2019 05 15.907967	17 32 37.76	+11 49 48.9	15.9 G	J95 – Great Shefford	MPS 999871
2019 05 15.909437	17 33 39.51	+12 12 54.7	15.2 G	J95 – Great Shefford	MPS 999871
2019 05 15.909870	17 33 58.02	+12 19 47.7	15.0 G	J95 – Great Shefford	MPS 999871
2019 05 15.910798	17 34 37.85	+12 34 38.0	15.1 G	J95 – Great Shefford	MPS 999871
2019 05 15.911154	17 34 53.35	+12 40 23.7	15.1 G	J95 – Great Shefford	MPS 999871
2019 05 15.924605	17 46 16.73	+17 04 21.3	15.1 G	C95 – SATINO Remote Observatory, Haute Provence	MPS 1001483
2019 05 15.929231	17 50 30.09	+18 35 31.7	14.9 G	C95 – SATINO Remote Observatory, Haute Provence	MPS 1001483
2019 05 15.933918	17 55 06.27	+20 12 51.8	14.8 G	C95 – SATINO Remote Observatory, Haute Provence	MPS 1001483
2019 05 15.936396	17 56 54.23	+20 34 39.6	14.9 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.936743	17 57 16.33	+20 42 09.3	15.1 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.937089	17 57 38.59	+20 49 42.2	14.5 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.937438	17 58 01.01	+20 57 14.9	14.6 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.937784	17 58 23.55	+21 04 51.2	15.1 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.939864	18 00 48.78	+21 50 11.3	15.2 G	J95 – Great Shefford	MPS 999871
2019 05 15.940412	18 01 18.06	+22 03 10.8	14.9 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.940759	18 01 41.70	+22 11 00.2	15.3 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.941105	18 02 05.51	+22 18 52.6	15.0 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.941319	18 02 28.00	+22 22 57.6	15.1 G	J95 – Great Shefford	MPS 999871
2019 05 15.941454	18 02 29.42	+22 26 45.4	14.9 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.942758	18 04 08.58	+22 55 54.0	15.2 G	J95 – Great Shefford	MPS 999871
2019 05 15.945721	18 07 35.40	+24 06 00.8	14.9 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.946188	18 08 10.24	+24 17 07.1	15.2 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.946649	18 08 45.05	+24 28 10.1	15.1 G	Z80 – Northolt Branch Observatory	MPS 999871
2019 05 15.975710	18 57 26.16	+37 28 45.2	15.2 G	J95 – Great Shefford	MPS 999871
2019 05 15.976846	18 59 56.89	+38 01 45.3	15.6 G	J95 – Great Shefford	MPS 999871
2019 05 15.991778	19 38 51.96	+45 12 03.2	15.6 G	J95 – Great Shefford	MPS 999871
2019 05 15.992812	19 42 00.66	+45 40 51.0	15.6 G	J95 – Great Shefford	MPS 999871
2019 05 15.993821	19 45 08.42	+46 08 41.5	16.4 G	J95 – Great Shefford	MPS 999871
2019 05 15.997312	19 56 26.75	+47 42 56.1	16.4 G	J95 – Great Shefford	MPS 999871
2019 05 15.998377	20 00 02.57	+48 10 55.6	15.7 G	J95 – Great Shefford	MPS 999871
2019 05 16.002864	20 15 58.19	+50 04 18.7	15.4 G	J95 – Great Shefford	MPS 999871
2019 05 16.008371	20 37 12.29	+52 11 06.7	17.7 G	J95 – Great Shefford	MPS 999871