

OBSERVERS

DATA

IAWN

BETA

STATUS

2018 FY2

First observed at Pan-STARRS 1, Haleakala on 2018-03-19.

(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	2019-04-27.0	semimajor axis (AU)	2.4982713	uncertainty	8
epoch JD	2458600.5	mean anomaly (°)	113.92036	reference	MPO 439050
perihelion date	2018-01-25.58817	mean daily motion (°/day)	0.24959990	observations used	12
perihelion JD	2458144.08817	aphelion distance (AU)	4.352	oppositions	1
argument of perihelion (°)	36.10548	period (years)	3.95	arc length (days)	2
ascending node (°)	51.77361	P-vector [x]	0.03712571	first opposition used	2018
inclination (°)	1.29009	P-vector [y]	0.91149138	last opposition used	2018
eccentricity	0.7420930	P-vector [z]	0.40964027	residual rms (arc-secs)	0.24
perihelion distance (AU)	0.6443216	Q-vector [x]	-0.99915407	perturbbers coarse indicator	M-v
Tisserand w.r.t. Jupiter	3.0	Q-vector [y]	0.02660263	perturbbers precise indicator	003Eh
ΔV w.r.t. Earth (km/sec)	8.0	Q-vector [z]	0.03135981	first observation date used	2018-03-19.0
		absolute magnitude	25.4	last observation date used	2018-03-21.0
		phase slope	0.15	computer name	MPCW

JD of orbit computation	2458199.182160
perihelion JD uncertainty (days)	1.2029E-01
argument of perihelion uncertainty (°)	1.4788E-01
ascending node uncertainty (°)	1.4637E-01
inclination uncertainty (°)	8.5596E-03
eccentricity uncertainty	4.5047E-03
perihelion distance uncertainty (AU)	1.2136E-03

Minimum Orbit Intersection Distances (in AU)
for orbit epoch: 2458600.5, reference: MPO439050

Mercury	0.33702
Venus	0.01767
Earth	0.01581
Mars	0.00596
Jupiter	0.91044
Saturn	5.71663
Uranus	14.7201
Neptune	25.8885

Observations

12 total observations over interval: 2018 03 19.35513 – 2018 03 21.27264

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

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2018 03 19.35513	11 12 28.274	+16 07 42.14	21.2 w	F51 – Pan-STARRS 1, Haleakala	MPS 876234
2018 03 19.36743	11 12 29.664	+16 06 41.49	21.9 w	F51 – Pan-STARRS 1, Haleakala	MPS 876234
2018 03 19.37982	11 12 31.038	+16 05 40.83	22.4 w	F51 – Pan-STARRS 1, Haleakala	MPS 876234
2018 03 20.16958	11 14 15.72	+15 05 10.0	22.3 R	291 – LPL/Spacewatch II	MPS 876234
2018 03 20.18236	11 14 17.06	+15 04 16.8	22.2 R	291 – LPL/Spacewatch II	MPS 876234
2018 03 21.200022	11 16 08.29	+13 58 23.4	22.2 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 876234
2018 03 21.203933	11 16 08.60	+13 58 09.5	22.1 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 876234
2018 03 21.215699	11 16 09.54	+13 57 28.1	22.3 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 876234
2018 03 21.221703	11 16 10.02	+13 57 06.9	21.9 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 876234
2018 03 21.24750	11 16 12.36	+13 55 38.0	22.7 R	291 – LPL/Spacewatch II	MPS 876234
2018 03 21.26008	11 16 13.33	+13 54 54.3	22.4 R	291 – LPL/Spacewatch II	MPS 876234
2018 03 21.27264	11 16 14.29	+13 54 09.4	22.8 R	291 – LPL/Spacewatch II	MPS 876234