

2015 HE183

First observed at Pan-STARRS 1, Haleakala on 2015-04-25.

(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 | 2018-03-23.0 | semimajor axis (AU) | 2.1932543 | <u>uncertainty</u> | 6 |
| epoch JD | 2458200.5 | mean anomaly (°) | 335.78467 | reference | MPEC 2018-R126 |
| perihelion date | 2018-06-10.80315 | mean daily motion (°/day) | 0.30343830 | observations used | 14 |
| perihelion JD | 2458280.30315 | aphelion distance (AU) | 3.548 | oppositions | 1 |
| argument of perihelion (°) | 299.99688 | period (years) | 3.25 | arc length (days) | 5 |
| ascending node (°) | 213.42573 | P-vector [x] | -0.89362072 | first opposition used | 2015 |
| inclination (°) | 3.12659 | P-vector [y] | 0.42828960 | last opposition used | 2015 |
| eccentricity | 0.6179062 | P-vector [z] | 0.13420144 | residual rms (arc-secs) | 0.50 |
| perihelion distance (AU) | 0.8380288 | Q-vector [x] | -0.44781616 | <u>perturbers coarse indicator</u> | M-v |
| Tisserand w.r.t. Jupiter | 3.4 | Q-vector [y] | -0.83080946 | <u>perturbers precise indicator</u> | 003Eh |
| ΔV w.r.t. Earth (km/sec) | 6.8 | Q-vector [z] | -0.33047894 | first observation date used | 2015-04-21.0 |
| | | absolute magnitude | 28.1 | last observation date used | 2015-04-26.0 |
| | | phase slope | 0.15 | computer name | MPCW |

| | |
|--|----------------|
| JD of orbit computation | 2458373.194401 |
| perihelion JD uncertainty (days) | 2.4143E-03 |
| argument of perihelion uncertainty (°) | 2.8988E-04 |
| ascending node uncertainty (°) | 6.4798E-05 |
| inclination uncertainty (°) | 5.3162E-04 |
| eccentricity uncertainty | 1.3336E-04 |
| perihelion distance uncertainty (AU) | 2.2455E-05 |

Minimum Orbit Intersection Distances (in AU)
for orbit epoch: 2458200.5, reference: MPO340539

| | |
|---------|-----------|
| Mercury | 0.478034 |
| Venus | 0.143134 |
| Earth | 0.0042126 |
| Mars | 0.034559 |
| Jupiter | 1.466 |
| Saturn | 6.21938 |
| Uranus | 16.415 |
| Neptune | 26.4135 |

Observations

14 total observations over interval: 2015 04 21.38391 – 2015 04 26.536079

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

| Date (UT) | J2000 RA | J2000 Dec | Magn | <u>Location</u> | <u>Ref</u> |
|-------------------|--------------|--------------|--------|-------------------------------|------------|
| 2015 04 21.38391 | 13 32 23.86 | -24 29 02.5 | | W84 – Cerro Tololo-DECam | MPEC R126 |
| 2015 04 21.38715 | 13 32 38.69 | -24 27 21.5 | | W84 – Cerro Tololo-DECam | MPEC R126 |
| 2015 04 21.39038 | 13 32 53.50 | -24 25 39.8 | | W84 – Cerro Tololo-DECam | MPEC R126 |
| 2015 04 21.39360 | 13 33 08.32 | -24 23 58.1 | | W84 – Cerro Tololo-DECam | MPEC R126 |
| 2015 04 24.48317 | 14 46 58.190 | -15 05 14.78 | 21.6 G | F51 – Pan-STARRS 1, Haleakala | MPS 888812 |
| 2015 04 24.49532 | 14 47 02.118 | -15 04 27.25 | 21.5 G | F51 – Pan-STARRS 1, Haleakala | MPS 888812 |
| 2015 04 24.50743 | 14 47 05.987 | -15 03 40.05 | 21.5 G | F51 – Pan-STARRS 1, Haleakala | MPS 888812 |
| 2015 04 24.51954 | 14 47 09.984 | -15 02 51.87 | 20.6 G | F51 – Pan-STARRS 1, Haleakala | MPS 888812 |
| 2015 04 25.46306 | 14 52 36.284 | -14 13 55.40 | 22.0 w | F51 – Pan-STARRS 1, Haleakala | MPS 609961 |
| 2015 04 25.47519 | 14 52 38.647 | -14 13 23.70 | 22.1 w | F51 – Pan-STARRS 1, Haleakala | MPS 609961 |
| 2015 04 25.49987 | 14 52 43.434 | -14 12 19.32 | 22.2 w | F51 – Pan-STARRS 1, Haleakala | MPS 609961 |
| 2015 04 26.533411 | 14 56 38.433 | -13 35 16.22 | 22.0 R | 568 – Mauna Kea | MPS 609961 |
| 2015 04 26.534742 | 14 56 38.603 | -13 35 13.69 | 22.2 R | 568 – Mauna Kea | MPS 609961 |
| 2015 04 26.536079 | 14 56 38.778 | -13 35 11.08 | 22.0 R | 568 – Mauna Kea | MPS 609961 |

