

2014 HJ198

First observed at Cerro Tololo-DECam on 2014-04-26.

(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)       | 2.0043294   | <a href="#">uncertainty</a>                  | 8            |
| epoch JD                   | 2458600.5        | mean anomaly (°)          | 292.79428   | reference                                    | MPO 317873   |
| perihelion date            | 2019-11-06.48890 | mean daily motion (°/day) | 0.34733630  | observations used                            | 10           |
| perihelion JD              | 2458793.98890    | aphelion distance (AU)    | 3.443       | oppositions                                  | 1            |
| argument of perihelion (°) | 262.94902        | period (years)            | 2.84        | arc length (days)                            | 1            |
| ascending node (°)         | 214.81761        | P-vector [x]              | -0.46279571 | first opposition used                        | 2014         |
| inclination (°)            | 5.97237          | P-vector [y]              | 0.84885406  | last opposition used                         | 2014         |
| eccentricity               | 0.7176733        | P-vector [z]              | 0.25547388  | residual rms (arc-secs)                      | 0.23         |
| perihelion distance (AU)   | 0.5658757        | Q-vector [x]              | -0.88447203 | <a href="#">perturbers coarse indicator</a>  | M-v          |
| Tisserand w.r.t. Jupiter   | 3.5              | Q-vector [y]              | -0.42284997 | <a href="#">perturbers precise indicator</a> | 003Eh        |
| ΔV w.r.t. Earth (km/sec)   | 8.4              | Q-vector [z]              | -0.19724890 | first observation date used                  | 2014-04-26.0 |
|                            |                  | absolute magnitude        | 26.8        | last observation date used                   | 2014-04-27.0 |
|                            |                  | phase slope               | 0.15        | computer name                                | MPCW         |

|  |                |
|--|----------------|
| JD of orbit computation                | 2457020.466551 |
| perihelion JD uncertainty (days)       | 5.1231E-02     |
| argument of perihelion uncertainty (°) | 2.7365E-02     |
| ascending node uncertainty (°)         | 3.2938E-03     |
| inclination uncertainty (°)            | 5.1914E-02     |
| eccentricity uncertainty               | 1.4133E-03     |
| perihelion distance uncertainty (AU)   | 5.5831E-04     |

Minimum Orbit Intersection Distances (in AU)

for orbit epoch: 2458200.5, reference: MPO317873

|         |           |
|---------|-----------|
| Mercury | 0.259508  |
| Venus   | 0.0125847 |
| Earth   | 0.0080925 |
| Mars    | 0.0702532 |
| Jupiter | 1.74653   |
| Saturn  | 6.59834   |
| Uranus  | 16.0682   |
| Neptune | 26.6663   |

Observations

10 total observations over interval: 2014 04 26.05429 – 2014 04 27.06573

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

| Date (UT)        | J2000 RA    | J2000 Dec   | Magn   | <a href="#">Location</a> | <a href="#">Ref</a> |
|------------------|-------------|-------------|--------|--------------------------|---------------------|
| 2014 04 26.05429 | 13 57 16.92 | -11 15 16.7 | 21.3 V | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 26.05744 | 13 57 16.85 | -11 15 01.5 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 26.06066 | 13 57 16.77 | -11 14 45.6 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 26.06382 | 13 57 16.69 | -11 14 30.4 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 26.06699 | 13 57 16.61 | -11 14 15.0 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 27.05290 | 13 57 26.18 | -10 05 50.9 | 22.0 V | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 27.05607 | 13 57 26.10 | -10 05 40.0 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 27.05928 | 13 57 26.04 | -10 05 29.1 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 27.06251 | 13 57 25.96 | -10 05 18.0 |        | W84 – Cerro Tololo-DECam | MPS 547825          |
| 2014 04 27.06573 | 13 57 25.90 | -10 05 06.5 |        | W84 – Cerro Tololo-DECam | MPS 547825          |

