

## 2015 HS182

First observed at Cerro Tololo-DECam on 2015-04-18.

(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)	1.7639580	<u>uncertainty</u>	9
epoch JD	2458600.5	mean anomaly (°)	227.88735	reference	MPO 340538
perihelion date	2020-03-06.03129	mean daily motion (°/day)	0.42069900	observations used	10
perihelion JD	2458914.53129	aphelion distance (AU)	2.732	oppositions	1
argument of perihelion (°)	358.18485	period (years)	2.34	arc length (days)	3
ascending node (°)	299.20339	P-vector [x]	0.46002764	first opposition used	2015
inclination (°)	1.54320	P-vector [y]	-0.81429685	last opposition used	2015
eccentricity	0.5487759	P-vector [z]	-0.35397064	residual rms (arc-secs)	0.08
perihelion distance (AU)	0.7959403	Q-vector [x]	0.88759335	<u>perturbers coarse indicator</u>	M-v
Tisserand w.r.t. Jupiter	3.9	Q-vector [y]	0.41118859	<u>perturbers precise indicator</u>	003Eh
ΔV w.r.t. Earth (km/sec)	6.5	Q-vector [z]	0.20761016	first observation date used	2015-04-18.0
		absolute magnitude	25.4	last observation date used	2015-04-21.0
		phase slope	0.15	computer name	MPCW

JD of orbit computation	2457178.602654
perihelion JD uncertainty (days)	3.8413E-01
argument of perihelion uncertainty (°)	1.3509E+00
ascending node uncertainty (°)	1.4008E+00
inclination uncertainty (°)	1.4920E-02
eccentricity uncertainty	9.7615E-03
perihelion distance uncertainty (AU)	3.5367E-03

Minimum Orbit Intersection Distances (in AU)  
for orbit epoch: 2458200.5, reference: MPO340538

Mercury	0.352971
Venus	0.0734419
Earth	0.0241582
Mars	0.0426467
Jupiter	2.50107
Saturn	6.38448
Uranus	15.7255
Neptune	27.2774

## Observations

10 total observations over interval: 2015 04 18.24103 – 2015 04 21.19874

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

Date (UT)	J2000 RA	J2000 Dec	Magn	<u>Location</u>	<u>Ref</u>
2015 04 18.24103	13 24 37.22	-17 46 43.8	23.1 V	W84 – Cerro Tololo-DECam	MPS 609960
2015 04 18.24424	13 24 36.76	-17 46 44.5		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 18.24748	13 24 36.28	-17 46 45.2		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 18.25072	13 24 35.82	-17 46 45.9		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 18.25396	13 24 35.36	-17 46 46.6		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 21.18579	13 17 30.49	-17 58 17.5	23.0 V	W84 – Cerro Tololo-DECam	MPS 609960
2015 04 21.18900	13 17 29.92	-17 58 18.1		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 21.19227	13 17 29.33	-17 58 19.1		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 21.19551	13 17 28.78	-17 58 19.7		W84 – Cerro Tololo-DECam	MPS 609960
2015 04 21.19874	13 17 28.19	-17 58 20.4		W84 – Cerro Tololo-DECam	MPS 609960