

2014 EU

First observed at Catalina Sky Survey on 2014-03-06.

(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)	1.2926285	uncertainty	6
epoch JD	2458200.5	mean anomaly (°)	299.10426	reference	MPO 292234
perihelion date	2018-06-21.80163	mean daily motion (°/day)	0.67064590	observations used	40
perihelion JD	2458291.30163	aphelion distance (AU)	1.655	oppositions	1
argument of perihelion (°)	288.83407	period (years)	1.47	arc length (days)	23
ascending node (°)	186.59463	P-vector [x]	-0.42938566	first opposition used	2014
inclination (°)	0.33040	P-vector [y]	0.83075340	last opposition used	2014
eccentricity	0.2804724	P-vector [z]	0.35422697	residual rms (arc-secs)	0.24
perihelion distance (AU)	0.9300819	Q-vector [x]	-0.90312098	perturbbers coarse indicator	M-v
Tisserand w.r.t. Jupiter	5.0	Q-vector [y]	-0.39469092	perturbbers precise indicator	003Eh
ΔV w.r.t. Earth (km/sec)	4.7	Q-vector [z]	-0.16909040	first observation date used	2014-03-06.0
		absolute magnitude	27.7	last observation date used	2014-03-29.0
		phase slope	0.15	computer name	MPCADO

JD of orbit computation	2456745.978010
perihelion JD uncertainty (days)	1.6570E-03
argument of perihelion uncertainty (°)	2.4815E-04
ascending node uncertainty (°)	2.2013E-04
inclination uncertainty (°)	9.8400E-05
eccentricity uncertainty	8.3867E-05
perihelion distance uncertainty (AU)	1.4256E-05

Minimum Orbit Intersection Distances (in AU)
for orbit epoch: 2458200.5, reference: MPO292234

Mercury	0.608859
Venus	0.21419
Earth	0.0026131
Mars	0.0262273
Jupiter	3.4364
Saturn	8.11166
Uranus	17.0796
Neptune	28.4066

Observations

45 total observations over interval: 2014 03 06.31951 – 2014 03 29.315343

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

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2014 03 06.31951	11 17 11.65	-02 52 34.2	19.6 V	703 – Catalina Sky Survey	MPS 504248
2014 03 06.32452	11 17 14.97	-02 52 30.1	19.4 V	703 – Catalina Sky Survey	MPS 504248
2014 03 06.32953	11 17 18.30	-02 52 27.9	19.2 V	703 – Catalina Sky Survey	MPS 504248
2014 03 06.33455	11 17 21.37	-02 52 23.6	18.9 V	703 – Catalina Sky Survey	MPS 504248
2014 03 06.91583	11 24 43.05	-02 46 19.7		587 – Sormano	MPS 504248
2014 03 06.92410	11 24 47.67	-02 46 15.5	18.9 R	587 – Sormano	MPS 504248
2014 03 07.20156	11 27 52.89	-02 41 44.4	19.0 R	291 – LPL/Spacewatch II	MPS 504248
2014 03 07.20209	11 27 53.14	-02 41 43.5	19.3 R	291 – LPL/Spacewatch II	MPS 504248
2014 03 07.20262	11 27 53.42	-02 41 43.4	19.7 R	291 – LPL/Spacewatch II	MPS 504248
2014 03 07.290234	11 28 25.04	-02 41 36.5	20.5 V	H21 – Astronomical Research Observatory, Westfield	MPS 504248
2014 03 07.293418	11 28 26.46	-02 41 33.3	20.8 V	H21 – Astronomical Research Observatory, Westfield	MPS 504248
2014 03 07.35195	11 29 01.19	-02 40 16.5	19.7 V	G96 – Mt. Lemmon Survey	MPS 504248
2014 03 07.36256	11 29 05.79	-02 40 09.9	19.8 V	G96 – Mt. Lemmon Survey	MPS 504248
2014 03 07.37351	11 29 10.57	-02 40 03.3	19.6 V	G96 – Mt. Lemmon Survey	MPS 504248
2014 03 07.38365	11 29 15.00	-02 39 56.0	19.7 V	G96 – Mt. Lemmon Survey	MPS 504248
2014 03 08.28956	11 37 04.71	-02 31 29.0	20.0 R	926 – Tenagra II Observatory, Nogales	MPS 505491
2014 03 08.29771	11 37 07.24	-02 31 25.1	20.0 R	926 – Tenagra II Observatory, Nogales	MPS 505491
2014 03 08.30501	11 37 09.52	-02 31 21.9	20.2 R	926 – Tenagra II Observatory, Nogales	MPS 505491
2014 03 09.26364	11 43 20.53	-02 24 42.6	20.1 R	H36 – Sandlot Observatory, Scranton	MPS 505491
2014 03 09.27614	11 43 23.51	-02 24 37.9	20.3 R	H36 – Sandlot Observatory, Scranton	MPS 505491
2014 03 10.285632	11 48 26.56	-02 18 20.2	21.3 V	H21 – Astronomical Research Observatory, Westfield	MPS 505491
2014 03 10.294235	11 48 28.09	-02 18 17.6	20.9 V	H21 – Astronomical Research Observatory, Westfield	MPS 505491
2014 03 10.303719	11 48 29.76	-02 18 13.6	20.5 V	H21 – Astronomical Research Observatory, Westfield	MPS 505492
2014 03 11.34782	11 52 42.64	-02 12 16.4	20.7 R	291 – LPL/Spacewatch II	MPS 505492
2014 03 11.35153	11 52 43.09	-02 12 15.3	20.6 R	291 – LPL/Spacewatch II	MPS 505492
2014 03 12.20312	11 55 42.82	-02 08 18.3	20.8 R	291 – LPL/Spacewatch II	MPS 505492
2014 03 12.20724	11 55 43.32	-02 08 17.3	20.8 R	291 – LPL/Spacewatch II	MPS 505492
2014 03 12.21136	11 55 43.83	-02 08 16.5	20.2 R	291 – LPL/Spacewatch II	MPS 505492
2014 03 13.31392	11 58 37.29	-02 03 50.1		291 – LPL/Spacewatch II	MPS 505492
2014 03 13.31923	11 58 37.69	-02 03 48.7	21.1 R	291 – LPL/Spacewatch II	MPS 505492
2014 03 22.23836	12 10 45.08	-01 39 32.9	22.2 R	291 – LPL/Spacewatch II	MPS 506812
2014 03 22.26981	12 10 45.18	-01 39 29.3	21.6 R	291 – LPL/Spacewatch II	MPS 506812
2014 03 28.156956	12 13 51.339	-01 28 34.36	22.8 R	309 – Cerro Paranal	MPS 508666
2014 03 28.157593	12 13 51.335	-01 28 34.33	23.0 R	309 – Cerro Paranal	MPS 508666
2014 03 28.158252	12 13 51.326	-01 28 34.26	22.9 R	309 – Cerro Paranal	MPS 508666
2014 03 28.158889	12 13 51.320	-01 28 34.27	22.9 R	309 – Cerro Paranal	MPS 508666
2014 03 28.159549	12 13 51.313	-01 28 34.23	22.9 R	309 – Cerro Paranal	MPS 508666
2014 03 28.160208	12 13 51.309	-01 28 34.16	23.0 R	309 – Cerro Paranal	MPS 508666
2014 03 28.160880	12 13 51.300	-01 28 34.08	22.9 R	309 – Cerro Paranal	MPS 508666
2014 03 29.157504	12 14 14.849	-01 27 30.15	22.6 R	309 – Cerro Paranal	MPS 508666
2014 03 29.159652	12 14 14.829	-01 27 29.93	22.8 R	309 – Cerro Paranal	MPS 508666
2014 03 29.253516	12 14 17.12	-01 28 49.4	22.8 R	H01 – Magdalena Ridge Observatory, Socorro	MPS 508666
2014 03 29.264300	12 14 17.05	-01 28 48.7	23.0 R	H01 – Magdalena Ridge Observatory, Socorro	MPS 508666
2014 03 29.273748	12 14 16.97	-01 28 48.2	23.1 R	H01 – Magdalena Ridge Observatory, Socorro	MPS 508666
2014 03 29.315343	12 14 16.64	-01 28 45.5	23.5 R	H01 – Magdalena Ridge Observatory, Socorro	MPS 508666

