



OBSERVERSPUBLICDATAIAWN

2017 FV

First observed at Mt. Lemmon Survey on 2017-03-17.  
(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)	1.5319117	uncertainty	6
epoch JD	2458600.5	mean anomaly (°)	6.75106	reference	MPO 413698
perihelion date	2019-04-14.01270	mean daily motion (°/day)	0.51982030	observations used	103
perihelion JD	2458587.51270	aphelion distance (AU)	2.324	oppositions	1
argument of perihelion (°)	253.48936	period (years)	1.9	arc length (days)	16
ascending node (°)	13.40574	P-vector [x]	-0.05447309	first opposition used	2017
inclination (°)	3.02012	P-vector [y]	-0.89485338	last opposition used	2017
eccentricity	0.5172381	P-vector [z]	-0.44302383	residual rms (arc-secs)	0.34
perihelion distance (AU)	0.7395486	Q-vector [x]	0.99844052	<a href="#">perturbbers coarse indicator</a>	M-v
Tisserand w.r.t. Jupiter	4.3	Q-vector [y]	-0.04338655	<a href="#">perturbbers precise indicator</a>	003Eh
ΔV w.r.t. Earth (km/sec)	6.7	Q-vector [z]	-0.03513025	first observation date used	2017-03-17.0
		absolute magnitude	24.6	last observation date used	2017-04-01.0
		phase slope	0.15	computer name	MPCLINUX

JD of orbit computation	2457925.491628	Minimum Orbit Intersection Distances (in AU)			
perihelion JD uncertainty (days)	4.4327E-03	for orbit epoch: 2458200.5, reference: MPO413698			
argument of perihelion uncertainty (°)	1.0157E-03	Mercury	0.274419		
ascending node uncertainty (°)	3.8139E-04	Venus	0.02841		
inclination uncertainty (°)	7.3700E-04	Earth	0.002469		
eccentricity uncertainty	1.4501E-04	Mars	0.0182418		
perihelion distance uncertainty (AU)	5.3134E-05	Jupiter	2.78168		
		Saturn	6.77131		
		Uranus	16.426		
		Neptune	27.6009		

Observations

103 total observations over interval: 2017 03 17.26524 – 2017 04 01.873953  
These data are available for [download](#) ([format description](#)).

Date (UT)	J2000 RA	J2000 Dec	Magn	Location	Ref
2017 03 17.26524	11 50 04.53	+09 14 56.4	19.6 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 17.26950	11 50 03.84	+09 15 02.4	20.1 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 17.27376	11 50 03.12	+09 15 06.5	20.7 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 17.27804	11 50 02.53	+09 15 12.3	20.8 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 17.321771	11 49 55.30	+09 16 02.0	21.3 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 779006
2017 03 17.330033	11 49 53.99	+09 16 11.7	21.1 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 779006
2017 03 17.339230	11 49 52.53	+09 16 22.3	20.3 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 779006
2017 03 17.349581	11 49 50.88	+09 16 34.3	20.3 G	H01 – Magdalena Ridge Observatory, Socorro	MPS 779006
2017 03 18.31225	11 47 31.51	+09 36 34.6		G96 – Mt. Lemmon Survey	MPS 779006
2017 03 18.31658	11 47 30.75	+09 36 40.2		G96 – Mt. Lemmon Survey	MPS 779006
2017 03 18.32098	11 47 29.98	+09 36 46.2		G96 – Mt. Lemmon Survey	MPS 779006
2017 03 18.32542	11 47 29.16	+09 36 51.8	19.8 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 18.360683	11 47 22.47	+09 37 37.5	20.7 R	705 – Apache Point	MPS 779006
2017 03 18.361703	11 47 22.27	+09 37 39.1	20.7 R	705 – Apache Point	MPS 779006
2017 03 18.362719	11 47 22.09	+09 37 40.4	20.4 R	705 – Apache Point	MPS 779006
2017 03 19.30672	11 44 45.70	+09 59 41.4	20.3 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 19.31306	11 44 44.40	+09 59 50.7	20.6 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 19.31834	11 44 43.30	+09 59 58.6	21.4 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 19.32196	11 44 42.55	+10 00 04.0	20.7 V	G96 – Mt. Lemmon Survey	MPS 779006
2017 03 20.29691	11 41 38.808	+10 25 54.64	20.7 w	F51 – Pan-STARRS 1, Haleakala	MPS 779006
2017 03 20.30856	11 41 36.131	+10 26 14.93	21.6 w	F51 – Pan-STARRS 1, Haleakala	MPS 779006
2017 03 20.33186	11 41 30.702	+10 26 55.38	21.0 w	F51 – Pan-STARRS 1, Haleakala	MPS 779006
2017 03 22.27617	11 33 32.86	+11 29 34.2	20.6 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 779006
2017 03 22.27835	11 33 32.18	+11 29 38.9	20.6 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 779006
2017 03 22.27946	11 33 31.83	+11 29 41.8	20.6 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 779006
2017 03 22.28056	11 33 31.47	+11 29 44.2	20.7 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 779006
2017 03 23.412688	11 27 30.223	+12 16 16.73	19.9 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 779006
2017 03 23.413112	11 27 30.051	+12 16 17.88	19.9 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 779006
2017 03 24.330538	11 21 37.552	+13 00 45.98	19.3 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 782133
2017 03 24.331265	11 21 37.209	+13 00 48.31	19.4 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 782133
2017 03 24.902806	11 17 19.905	+13 32 10.77	19.9 G	J04 – ESA Optical Ground Station, Tenerife	MPS 782133
2017 03 24.905593	11 17 18.449	+13 32 20.82	20.0 G	J04 – ESA Optical Ground Station, Tenerife	MPS 782133
2017 03 24.908381	11 17 17.000	+13 32 30.92	20.2 G	J04 – ESA Optical Ground Station, Tenerife	MPS 782133
2017 03 25.319991	11 13 48.169	+13 57 58.48	19.2 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 782133
2017 03 25.320729	11 13 47.738	+13 58 01.33	19.2 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 782133
2017 03 25.33567	11 13 33.07	+13 58 33.3	20.6 R	926 – Tenagra II Observatory, Nogales	MPS 782133
2017 03 25.34096	11 13 29.97	+13 58 53.4	20.8 R	926 – Tenagra II Observatory, Nogales	MPS 782133
2017 03 25.34626	11 13 27.00	+13 59 12.4	20.4 R	926 – Tenagra II Observatory, Nogales	MPS 782133
2017 03 26.82392	10 57 43.94	+15 48 57.9		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82491	10 57 43.05	+15 49 02.1	18.9 R	246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82581	10 57 42.36	+15 49 06.9		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82613	10 57 42.12	+15 49 08.8		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82674	10 57 41.61	+15 49 12.0		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82698	10 57 41.44	+15 49 13.5		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82854	10 57 40.08	+15 49 21.4		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.82946	10 57 39.43	+15 49 26.3		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.83031	10 57 38.62	+15 49 31.2		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 26.83062	10 57 38.47	+15 49 32.7		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.26064	10 51 39.77	+16 29 46.4	20.3 V	703 – Catalina Sky Survey	MPS 782133
2017 03 27.27405	10 51 27.18	+16 31 04.1		703 – Catalina Sky Survey	MPS 782133
2017 03 27.35891	10 50 06.82	+16 39 10.8	19.8 V	703 – Catalina Sky Survey	MPS 782133
2017 03 27.78316	10 43 30.62	+17 22 27.4		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78350	10 43 30.31	+17 22 30.1		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78375	10 43 29.98	+17 22 30.8		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78431	10 43 29.39	+17 22 34.5	19.0 R	246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78466	10 43 29.08	+17 22 36.7		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78505	10 43 28.62	+17 22 39.9		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78527	10 43 28.37	+17 22 41.9		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 27.78543	10 43 28.22	+17 22 41.9		246 – Klet Observatory-KLENOT	MPS 782133
2017 03 28.043358	10 38 43.026	+17 52 44.08	19.5 G	J04 – ESA Optical Ground Station, Tenerife	MPS 782133
2017 03 28.045218	10 38 40.835	+17 52 56.77	19.7 G	J04 – ESA Optical Ground Station, Tenerife	MPS 782133
2017 03 28.047077	10 38 38.634	+17 53 09.40	19.6 G	J04 – ESA Optical Ground Station, Tenerife	MPS 782133
2017 03 28.06948	10 38 10.85	+17 54 37.9		204 – Schiaparelli Observatory	MPS 791111
2017 03 28.07694	10 38 02.27	+17 55 28.3		204 – Schiaparelli Observatory	MPS 791111
2017 03 28.08440	10 37 53.67	+17 56 19.1	18.8 G	204 – Schiaparelli Observatory	MPS 791111
2017 03 28.23349	10 35 09.93	+18 15 08.2	19.1 V	703 – Catalina Sky Survey	MPS 782133
2017 03 28.23787	10 35 04.44	+18 15 40.2	18.6 V	703 – Catalina Sky Survey	MPS 782133
2017 03 28.24223	10 34 58.99	+18 16 11.9		703 – Catalina Sky Survey	MPS 782133
2017 03 28.24658	10 34 53.43	+18 16 43.9	18.7 V	703 – Catalina Sky Survey	MPS 782133
2017 03 28.24913	10 34 59.407	+18 17 27.67	19.0 w	F51 – Pan-STARRS 1, Haleakala	MPS 801640
2017 03 28.25946	10 34 46.471	+18 18 45.57	19.3 w	F51 – Pan-STARRS 1, Haleakala	MPS 801640
2017 03 28.26974	10 34 33.554	+18 20 02.91	20.9 w	F51 – Pan-STARRS 1, Haleakala	MPS 801640
2017 03 28.28008	10 34 20.458	+18 21 20.89	19.7 w	F51 – Pan-STARRS 1, Haleakala	MPS 801640
2017 03 29.19580	10 12 49.70	+20 25 43.2	18.4 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.19789	10 12 46.11	+20 26 02.4	18.2 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.19997	10 12 42.50	+20 26 21.8	18.2 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.20205	10 12 38.91	+20 26 40.8	18.2 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.20414	10 12 35.31	+20 26 59.6	18.3 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.21086	10 12 23.72	+20 28 01.5	17.5 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.21295	10 12 20.10	+20 28 20.7	18.4 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.21920	10 12 09.23	+20 29 18.4	18.4 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.22128	10 12 05.57	+20 29 37.8	18.7 R	G58 – Chabot Space and Science Center, Oakland	MPS 782133
2017 03 29.259049	10 11 07.570	+20 36 26.36	19.5 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 03 29.259794	10 11 06.261	+20 36 33.40	19.5 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 03 29.260269	10 11 05.418	+20 36 37.90	19.5 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 03 30.425546	09 29 33.115	+23 57 55.97	18.8 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 03 31.16100	08 52 07.53	+26 18 21.2	17.7 R	926 – Tenagra II Observatory, Nogales	MPS 782133
2017 03 31.16230	08 52 02.77	+26 18 35.8	17.6 R	926 – Tenagra II Observatory, Nogales	MPS 782133
2017 03 31.16486	08 51 53.39	+26 19 04.6	17.6 R	926 – Tenagra II Observatory, Nogales	MPS 782133
2017 03 31.271821	08 45 28.508	+26 40 05.48	19.5 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 03 31.272301	08 45 26.679	+26 40 10.71	19.5 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 03 31.30684	08 43 01.38	+26 44 25.8	18.0 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 782133
2017 03 31.30726	08 42 59.85	+26 44 29.9	18.0 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 782133
2017 03 31.30767	08 42 58.23	+26 44 34.3	18.0 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 782133
2017 03 31.30809	08 42 56.67	+26 44 38.5	17.9 V	I52 – Steward Observatory, Mt. Lemmon Station	MPS 782133
2017 03 31.855777	08 05 29.62	+28 13 59.6		J95 – Great Shefford	MPS 785770
2017 03 31.858116	08 05 18.82	+28 14 18.7		J95 – Great Shefford	MPS 785770
2017 03 31.860271	08 05 08.84	+28 14 36.0	18.1 G	J95 – Great Shefford	MPS 785770
2017 04 01.243019	07 34 40.996	+29 01 02.93	20.0 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 04 01.243598	07 34 37.987	+29 01 05.73	20.2 G	T12 – Mauna Kea-UH/Tholen NEO Follow-Up (2.24-m)	MPS 785770
2017 04 01.862798	06 39 46.72	+29 09 22.8		J95 – Great Shefford	MPS 785770
2017 04 01.868368	06 39 15.61	+29 09 02.8		J95 – Great Shefford	MPS 785770
2017 04 01.873953	06 38 44.40	+29 08 42.3	19.3 G	J95 – Great Shefford	MPS 785770

