

[HOME](#)[ABOUT](#)[CONTACT](#)

Search MPC

[OBSERVERS](#)[PUBLIC](#)[IAWN](#)

- [Preparing MPCs \(Info\)](#)

## MPEC 2015-Y61 : 2015 YV1

The following *Minor Planet Electronic Circular* may be linked-to from your own Web pages, but must not otherwise be redistributed electronically.

A form allowing access to any MPEC is at [the bottom of this page](#).

◀ [Read MPEC 2015-Y60](#) ▶ [Read MPEC 2015-Y62](#)

M.P.E.C. 2015-Y61

Issued 2015 Dec. 20, 20:32 UT

The Minor Planet Electronic Circulars contain information on unusual minor planets and routine data on comets. They are published on behalf of Division F of the International Astronomical Union by the Minor Planet Center, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.

Prepared using the [Tamkin Foundation Computer Network](#)

MPC@CFA.HARVARD.EDU

URL <http://www.minorplanetcenter.net/> ISSN 1523-6714

2015 YV1

## Observations:

K15Y01V*	C2015	12	18.07131	02	09	46.77	+16	26	40.8	20.8	VqEY061G96
K15Y01V	C2015	12	18.07839	02	09	52.61	+16	27	16.9	20.4	VqEY061G96
K15Y01V	C2015	12	18.09254	02	10	04.20	+16	28	29.2	20.3	VqEY061G96
K15Y01V	C2015	12	18.11797	02	10	24.98	+16	30	39.5	20.3	VqEY061G96
K15Y01V	C2015	12	18.12362	02	10	29.54	+16	31	07.8	20.6	VqEY061G96
K15Y01V	C2015	12	18.13491	02	10	38.75	+16	32	04.8	20.5	VqEY061G96
K15Y01V	KC2015	12	18.36880	02	13	47.51	+16	51	06.9	20.5	RoEY061291
K15Y01V	KC2015	12	18.36946	02	13	48.04	+16	51	10.1	20.3	RoEY061291
K15Y01V	KC2015	12	18.37010	02	13	48.59	+16	51	12.6	19.9	RoEY061291
K15Y01V	C2015	12	19.04504702	22	43.74	+17	42	32.7		21.4	VtEY061H01
K15Y01V	C2015	12	19.05351002	22	49.96	+17	43	09.6		21.3	VtEY061H01
K15Y01V	C2015	12	19.05901902	22	54.00	+17	43	33.5		20.9	VtEY061H01
K15Y01V	C2015	12	19.06402502	22	57.65	+17	43	55.2		20.7	VtEY061H01
K15Y01V	KC2015	12	19.07130	02	23	03.21	+17	44	28.1	20.8	RoEY061291
K15Y01V	KC2015	12	19.07297	02	23	04.43	+17	44	35.5	20.5	RoEY061291
K15Y01V	KC2015	12	19.07465	02	23	05.67	+17	44	42.9	20.6	RoEY061291
K15Y01V	C2015	12	19.09142	02	23	17.84	+17	45	56.2	20.8	RoEY061926
K15Y01V	C2015	12	19.09458	02	23	20.15	+17	46	09.5	20.8	RoEY061926
K15Y01V	C2015	12	19.09773	02	23	22.44	+17	46	22.3	20.8	RoEY061926
K15Y01V	C2015	12	19.10330	02	23	26.48	+17	46	46.3	19.8	VqEY061I52
K15Y01V	C2015	12	19.10596	02	23	28.53	+17	46	57.7	20.1	VqEY061I52
K15Y01V	C2015	12	19.10878	02	23	30.48	+17	47	09.3	20.5	VqEY061I52
K15Y01V	JC2015	12	19.14193	02	23	54.47	+17	49	31.8	19.9	RoEY061695
K15Y01V	JC2015	12	19.14401	02	23	55.97	+17	49	40.6	20.4	RoEY061695
K15Y01V	JC2015	12	19.14531	02	23	56.91	+17	49	45.9	20.3	RoEY061695
K15Y01V	JC2015	12	19.14672	02	23	57.91	+17	49	52.0	20.1	RoEY061695
K15Y01V	KC2015	12	20.82142	02	42	50.72	+19	31	53.3	20.3	RoEY061K51
K15Y01V	KC2015	12	20.82476	02	42	52.69	+19	32	03.5	20.3	RoEY061K51
K15Y01V	KC2015	12	20.82810	02	42	54.71	+19	32	14.0	20.3	RoEY061K51

## Observer details:

291 LPL/Spacewatch II. Observer R. A. Mastaler. 1.8-m f/2.7 reflector + CCD.

695 Kitt Peak. Observers L. Lebofsky, M. Trueblood, R. Crawford. Measurer R. Crawford. 2.3-m f/3.0 Ritchey-Chretien + CCD.

926 Tenagra II Observatory. Observers M. Schwartz, P. R. Holvorcem. Measurer M. Schwartz. 0.81-m f/7 Ritchey-Chretien + CCD.

G96 Mt. Lemmon Survey. Observer A. D. Grauer. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer, J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny, R. L. Seaman, F. C. Shelly. 1.5-m reflector + CCD.

H01 Magdalena Ridge Observatory, Socorro. Observers W. H. Ryan, E. V. Ryan. Measurer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.

I52 Steward Observatory, Mt. Lemmon Station. Observer R. A. Kowalski. Measurers E. J. Christensen, D. C. Fuls, A. R. Gibbs, A. D. Grauer,

J. A. Johnson, R. A. Kowalski, S. M. Larson, G. J. Leonard, R. G. Matheny,  
R. L. Seaman, F. C. Shelly. 1.0-m reflector + CCD.  
K51 Osservatorio del Celado, Castello Tesino. Observers G. Favero, R. Furgoni.  
Measurer R. Furgoni. 0.80-m f/4 reflector + CCD.

## Orbital elements:

2015 YV1  
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5 Earth MOID = 0.0006 AU  
MPC  
M 32.20498 (2000.0) P Q  
n 0.40161623 Peri. 281.02272 +0.99363706 +0.10184073  
a 1.8194015 Node 73.14543 -0.07327076 +0.90884662  
e 0.6236461 Incl. 2.88099 -0.08553820 +0.40450747  
P 2.45 H 23.3 G 0.15 U 8

## Residuals in seconds of arc

151218 G96	0.0	0.0	151219 H01	0.2+	0.2-	151219 I52	1.8+	0.4+
151218 G96	0.3+	0.3-	151219 H01	0.3+	0.2-	151219 I52	0.4+	0.1-
151218 G96	0.2+	0.5-	151219 H01	0.1+	0.2-	151219 695	0.2+	0.8+
151218 G96	0.3+	0.2+	151219 291	0.6-	0.3-	151219 695	0.3+	0.8+
151218 G96	0.3-	0.1-	151219 291	0.6-	0.1-	151219 695	0.3+	0.6+
151218 G96	0.1+	0.3-	151219 291	0.4-	0.0	151219 695	0.1+	0.7+
151218 291	0.2-	0.2+	151219 926	0.5-	0.3+	151220 K51	0.1+	0.1+
151218 291	0.2-	0.3+	151219 926	0.3-	0.0	151220 K51	0.2-	0.3-
151218 291	0.2+	0.2-	151219 926	0.3-	0.8-	151220 K51	0.2+	0.4-
151219 H01	0.0	0.3-	151219 I52	0.0	0.4+			

## Ephemeris:

2015 YV1 a,e,i = 1.82, 0.62, 3 q = 0.6847  
Date TT R. A. (2000) Decl. Delta r Elong. Phase V  
2015 11 20 18 20 03.0 -27 31 28 0.2521 0.8031 37.5 131.4 25.7  
...  
2015 12 05 21 00 50.2 -19 58 00 0.1017 0.9383 59.7 115.0 22.7  
...  
2015 12 13 00 32 52.1 +05 06 43 0.08994 1.0176 109.1 66.1 20.4  
...  
2015 12 19 02 22 06.7 +17 39 38 0.1332 1.0783 132.4 42.3 20.7  
2015 12 20 02 34 01.2 +18 45 46 0.1426 1.0885 134.4 40.2 20.8  
2015 12 21 02 44 38.7 +19 41 34 0.1524 1.0987 136.1 38.4 21.0  
...  
2015 12 27 03 29 39.2 +23 02 16 0.2166 1.1597 140.9 32.3 21.7  
...  
2016 01 04 04 03 27.3 +24 51 36 0.3118 1.2405 140.7 30.1 22.5  
...  
2016 01 19 04 40 03.7 +26 04 30 0.5116 1.3882 133.8 30.7 23.9

A. U. Tomatic

(C) Copyright 2015 MPC

M.P.E.C. 2015-Y61

◀ [Read MPEC 2015-Y60](#) ▶ [Read MPEC 2015-Y62](#)

Display 

Clear

Enter an MPEC number in one of the following forms:

- 1997-B01 (the full form)
- J97B01 (the packed version of the full form)
- B01 (the abbreviated form)

[Home](#) [About](#) [Contact](#) [For Observers](#) [For the Public](#)

