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## MPEC 2015-Y60 : 2015 YU1

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M.P.E.C. 2015-Y60

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2015 YU1

**Observations:**

K15Y01U*	C2015	12	19.18033	05	51	00.50	+26	49	07.9	20.6	VqEY060G96
K15Y01U	C2015	12	19.18492	05	50	59.70	+26	48	50.2	20.9	VqEY060G96
K15Y01U	C2015	12	19.18950	05	50	58.92	+26	48	32.6	21.1	VqEY060G96
K15Y01U	C2015	12	19.19408	05	50	58.02	+26	48	14.2	20.3	VqEY060G96
K15Y01U	C2015	12	19.20272	05	50	56.58	+26	47	41.5		qEY060G96
K15Y01U	C2015	12	19.20896	05	50	55.48	+26	47	16.6	20.3	VqEY060G96
K15Y01U	C2015	12	19.21520	05	50	54.38	+26	46	52.2	20.9	VqEY060G96
K15Y01U	C2015	12	19.22143	05	50	53.23	+26	46	27.8	20.8	VqEY060G96
K15Y01U	C2015	12	19.28574	205	50	41.32	+26	42	11.6	20.7	VtEY060H01
K15Y01U	C2015	12	19.29082	405	50	40.39	+26	41	51.1	20.6	VtEY060H01
K15Y01U	C2015	12	19.29812	305	50	39.06	+26	41	21.8	20.7	VtEY060H01
K15Y01U	C2015	12	19.31030	205	50	36.84	+26	40	32.6	20.3	VtEY060H01
K15Y01U	JC2015	12	19.31616	05	50	36.19	+26	40	12.6	19.9	RoEY060695
K15Y01U	JC2015	12	19.32045	05	50	35.39	+26	39	55.3	19.9	RoEY060695
K15Y01U	JC2015	12	19.32271	05	50	34.98	+26	39	46.2	19.9	RoEY060695
K15Y01U	C2015	12	19.35950	05	50	28.17	+26	37	15.2	21.0	VqEY060G96
K15Y01U	C2015	12	19.36233	05	50	27.65	+26	37	03.7	20.7	VqEY060G96
K15Y01U	C2015	12	19.36515	05	50	27.15	+26	36	51.7	21.2	VqEY060G96
K15Y01U	C2015	12	19.36798	05	50	26.63	+26	36	40.2	20.7	VqEY060G96
K15Y01U	C2015	12	19.39223	05	50	22.30	+26	35	01.1	19.8	RoEY060291
K15Y01U	C2015	12	19.39303	05	50	22.19	+26	34	59.1	19.7	RoEY060291
K15Y01U	C2015	12	19.39385	05	50	22.02	+26	34	54.6	19.7	RoEY060291
K15Y01U	KC2015	12	19.91444	05	49	06.82	+25	59	12.9		qEY060587
K15Y01U	KC2015	12	19.91629	05	49	06.49	+25	59	05.5	20.1	RqEY060587
K15Y01U	KC2015	12	19.92783	05	49	04.47	+25	58	18.9		qEY060587
K15Y01U	KC2015	12	19.93340	05	49	03.49	+25	57	55.5		qEY060587
K15Y01U	KC2015	12	20.12272	05	48	38.13	+25	44	53.9		oEY060291
K15Y01U	KC2015	12	20.12514	05	48	37.73	+25	44	43.4		oEY060291
K15Y01U	KC2015	12	20.13454	05	48	27.94	+25	43	53.1	20.6	tEY060104
K15Y01U	KC2015	12	20.14004	05	48	27.12	+25	43	28.7	20.3	tEY060104
K15Y01U	KC2015	12	20.14133	05	48	26.90	+25	43	23.2	20.1	tEY060104
K15Y01U	KC2015	12	20.20931	05	48	21.19	+25	38	55.6	20.9	tEY060754
K15Y01U	KC2015	12	20.21533	05	48	20.12	+25	38	30.7	21.4	tEY060754
K15Y01U	KC2015	12	20.22130	05	48	19.01	+25	38	05.6	21.9	tEY060754
K15Y01U	C2015	12	20.30786	05	48	05.08	+25	32	19.9	19.4	RoEY060926
K15Y01U	C2015	12	20.31530	05	48	03.66	+25	31	49.0	19.9	RoEY060926
K15Y01U	KC2015	12	20.80850	05	46	51.60	+24	56	35.4	20.1	RoEY060K51
K15Y01U	KC2015	12	20.81035	05	46	51.26	+24	56	27.7	20.1	RoEY060K51
K15Y01U	KC2015	12	20.81221	05	46	50.92	+24	56	19.8	20.0	RoEY060K51

**Observer details:**

104 San Marcello Pistoiese. Observer P. Bacci. Measurers P. Bacci, L. Tesi, G. Fagioli. 0.60-m f/4 reflector + CCD.  
291 LPL/Spacewatch II. Observer R. A. Mastaler. 1.8-m f/2.7 reflector + CCD.

587 Sormano. Observers A. Fumagalli, P. Sicoli, A. Testa. Measurer A. Testa.  
0.5-m f/6.8 reflector + CCD.

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

754 Yerkes Observatory, Williams Bay. Observer V. L. Hoette. Measurers  
V. L. Hoette, A. W. Puckett, T. R. Linder, R. L. Sanchez. 1.02-m f/8.04  
Cassegrain reflector + 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.

K51 Osservatorio del Celado, Castello Tesino. Observers G. Favero, R. Furgoni.  
Measurer R. Furgoni. 0.80-m f/4 reflector + CCD.

## Orbital elements:

2015 YU1 Earth MOID = 0.0713 AU  
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5 MPC  
M 305.77059 (2000.0) P Q  
n 0.83856866 Peri. 265.40407 -0.98649002 -0.09100346  
a 1.1137224 Node 269.33162 +0.13809445 -0.90927810  
e 0.1130539 Incl. 7.82969 -0.08813267 -0.40611784  
P 1.18 H 24.8 G 0.15 U 7

## Residuals in seconds of arc

151219 G96	0.3+	0.2-	151219 695	0.4+	0.4+	151220 291	0.3-	0.4+
151219 G96	0.3+	0.1-	151219 695	0.4+	0.5+	151220 291	0.3-	0.5-
151219 G96	0.5+	0.1+	151219 G96	0.1-	0.0	151220 104	0.8-	0.3+
151219 G96	0.9-	0.6-	151219 G96	0.2-	0.1+	151220 104	0.5+	0.5-
151219 G96	0.1+	0.3+	151219 G96	0.0	0.3-	151220 104	0.4+	0.4-
151219 G96	0.1+	0.2-	151219 G96	0.1-	0.2-	151220 754	0.1+	0.1-
151219 G96	0.2+	0.3-	151219 291	0.3-	0.2-	151220 754	0.3+	0.0
151219 G96	0.4-	0.3-	151219 291	0.1+	1.1+	151220 754	0.1-	0.4-
151219 H01	0.0	0.2-	151219 291	0.2-	0.0	151220 926	0.5+	0.1+
151219 H01	0.1-	0.3-	151219 587	0.3-	0.1-	151220 926	0.1-	0.4+
151219 H01	0.0	0.3-	151219 587	0.3-	0.1+	151220 K51	0.5+	0.1+
151219 H01	0.0	0.3-	151219 587	0.1+	0.5+	151220 K51	0.1+	0.0
151219 695	0.6+	0.4+	151219 587	0.2+	0.1-	151220 K51	0.2-	0.2-

## Ephemeris:

2015 YU1 a,e,i = 1.11, 0.11, 8 q = 0.9878  
Date TT R. A. (2000) Decl. Delta r Elong. Phase V  
2015 11 20 06 26 38.2 +43 17 40 0.2044 1.1478 137.8 35.4 23.1  
...  
2015 12 05 06 19 24.8 +38 14 32 0.1488 1.1211 153.9 22.7 22.0  
...  
2015 12 13 06 05 28.2 +32 50 37 0.1253 1.1064 165.8 12.7 21.3  
...  
2015 12 19 05 51 24.2 +27 01 28 0.1116 1.0953 176.1 3.5 20.6  
2015 12 20 05 48 52.4 +25 53 52 0.1097 1.0935 177.5 2.2 20.4  
2015 12 21 05 46 18.7 +24 43 39 0.1079 1.0916 177.9 1.9 20.4  
...  
2015 12 27 05 30 41.1 +16 53 56 0.09956 1.0806 166.7 12.1 20.7  
...  
2016 01 04 05 11 06.8 +05 12 20 0.09506 1.0661 149.2 28.2 21.1  
...  
2016 01 19 04 46 59.0 -14 17 35 0.1028 1.0406 121.0 54.1 21.9

A. U. Tomatic

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