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## MPEC 2015-Y43 : 2015 YE1

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M.P.E.C. 2015-Y43

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2015 YE1

## Observations:

K15Y01E*	C2015	12	18.32336	05	42	30.67	+21	30	38.4	20.0	VqEY043G96
K15Y01E	C2015	12	18.32796	05	42	29.73	+21	32	16.3		qEY043G96
K15Y01E	C2015	12	18.33257	05	42	28.76	+21	33	55.2	19.9	VqEY043G96
K15Y01E	C2015	12	18.33721	05	42	27.78	+21	35	34.2	19.7	VqEY043G96
K15Y01E	C2015	12	18.36208	05	42	22.62	+21	44	27.8	20.1	VqEY043G96
K15Y01E	C2015	12	18.36346	05	42	22.27	+21	44	57.3	19.7	VqEY043G96
K15Y01E	C2015	12	18.36482	05	42	22.01	+21	45	26.7	19.9	VqEY043G96
K15Y01E	C2015	12	18.36618	05	42	21.74	+21	45	56.1	20.4	VqEY043G96
K15Y01E	C2015	12	18.40947	05	42	13.05	+22	01	32.2	19.6	VqEY043G96
K15Y01E	C2015	12	18.41166	05	42	12.59	+22	02	19.6	20.0	VqEY043G96
K15Y01E	C2015	12	18.41384	05	42	12.19	+22	03	07.3	19.9	VqEY043G96
K15Y01E	C2015	12	18.41611	05	42	11.75	+22	03	55.0		qEY043G96
K15Y01E	HC2015	12	18.49626	05	41	57.93	+22	33	20.6		oEY043291
K15Y01E	HC2015	12	18.49644	05	41	58.00	+22	33	23.4		oEY043291
K15Y01E	HC2015	12	18.49661	05	41	57.98	+22	33	27.4		oEY043291
K15Y01E	KC2015	12	19.04714	05	41	07.23	+26	26	14.7	19.8	VqEY043I93
K15Y01E	KC2015	12	19.05572	05	41	04.97	+26	30	14.4	19.7	VqEY043I93
K15Y01E	KC2015	12	19.06564	05	41	02.65	+26	34	52.8	20.1	VqEY043I93
K15Y01E	C2015	12	19.18233	05	41	10.64	+27	32	11.3		qEY043G96
K15Y01E	C2015	12	19.18691	05	41	09.50	+27	34	30.9	19.8	VqEY043G96
K15Y01E	C2015	12	19.19149	05	41	08.39	+27	36	49.8	19.3	VqEY043G96
K15Y01E	C2015	12	19.19609	05	41	07.31	+27	39	07.5	20.3	VqEY043G96
K15Y01E	C2015	12	19.19616	05	41	07.22	+27	39	11.9	19.9	VqEY043I52
K15Y01E	C2015	12	19.19703	05	41	06.99	+27	39	38.8	19.8	VqEY043I52
K15Y01E	C2015	12	19.19794	05	41	06.74	+27	40	06.6	20.0	VqEY043I52
K15Y01E	C2015	12	19.19880	05	41	06.51	+27	40	32.6	19.8	VqEY043I52
K15Y01E	C2015	12	19.20324	05	41	05.43	+27	42	48.5	19.4	VqEY043G96
K15Y01E	C2015	12	19.20948	05	41	03.79	+27	45	58.8	19.7	VqEY043G96
K15Y01E	C2015	12	19.21572	05	41	02.14	+27	49	09.5	19.4	VqEY043G96
K15Y01E	C2015	12	19.22196	05	41	00.47	+27	52	21.6	19.8	VqEY043G96
K15Y01E	JC2015	12	19.29507	05	40	39.89	+28	30	06.0	19.2	RoEY043695
K15Y01E	JC2015	12	19.29563	05	40	39.71	+28	30	23.2	19.0	RoEY043695
K15Y01E	JC2015	12	19.29622	05	40	39.54	+28	30	41.6	19.1	RoEY043695
K15Y01E	KC2015	12	19.84052	05	39	18.89	+33	44	47.3		qEY043587
K15Y01E	KC2015	12	19.84729	05	39	16.80	+33	49	15.5	19.5	RqEY043587
K15Y01E	KC2015	12	19.85406	05	39	14.70	+33	53	44.7		qEY043587

## Observer details:

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 P. Sicoli. 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.

996 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.

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.

I93 St Pardon de Conques. Observer F. Losse. 0.40-m f/3.7 reflector + CCD.

## Orbital elements:

2015 YE1 Earth MOID = 0.0141 AU  
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5 MPC  
M 334.83964 (2000.0) P Q  
n 0.74607829 Peri. 77.70682 -0.94513945 -0.27547320  
a 1.2039629 Node 86.10528 +0.18643740 -0.89621746  
e 0.3206887 Incl. 10.13567 +0.26823965 -0.34771940  
P 1.32 H 27.4 G 0.15 U 7

## Residuals in seconds of arc

151218 G96 0.1-	0.4+	151218 291 1.0-	0.6+	151219 I52 0.4-	0.1-
151218 G96 0.3+	0.1+	151218 291 0.3+	0.5-	151219 I52 0.6-	0.3-
151218 G96 0.2+	0.4+	151218 291 0.4+	0.3-	151219 G96 0.2+	0.1+
151218 G96 0.2+	0.1+	151219 I93 0.9+	0.3+	151219 G96 0.1-	0.2-
151218 G96 0.6+	0.0	151219 I93 1.3-	0.1-	151219 G96 0.1-	0.4-
151218 G96 0.3-	0.2-	151219 I93 0.1-	0.0	151219 G96 0.1-	0.5+
151218 G96 0.0	0.0	151219 G96 0.1-	0.6-	151219 695 0.6+	1.0+
151218 G96 0.2+	0.1+	151219 G96 0.4-	0.1-	151219 695 0.4+	0.7+
151218 G96 0.3+	0.3+	151219 G96 0.1-	0.5-	151219 695 0.5+	0.7+
151218 G96 0.2-	0.1+	151219 G96 (0.9+	2.8-)	151219 587 0.0	0.3+
151218 G96 0.1+	0.4+	151219 I52 0.0	0.6-	151219 587 0.0	0.2-
151218 G96 0.0	1.2-	151219 I52 0.2-	0.2-	151219 587 0.4+	0.3-

## Ephemeris:

2015 YE1 a,e,i = 1.20, 0.32, 10 q = 0.8179  
Date TT R. A. (2000) Decl. Delta r Elong. Phase V  
2015 11 19 05 41 50.2 -01 17 42 0.2148 1.1666 142.7 30.9 25.7  
...  
2015 12 04 05 46 48.6 -00 02 33 0.1140 1.0880 152.3 24.9 24.0  
...  
2015 12 12 05 46 33.1 +04 43 31 0.06457 1.0456 160.1 18.7 22.5  
...  
2015 12 18 05 43 00.8 +19 42 27 0.03022 1.0142 176.3 3.6 20.2  
2015 12 19 05 41 19.3 +26 05 52 0.02510 1.0090 177.2 2.8 19.7  
2015 12 20 05 38 27.5 +35 33 21 0.02046 1.0039 167.6 12.1 19.7  
...  
2015 12 26 17 58 43.7 +42 14 17 0.02524 0.9734 65.7 112.9 23.7  
...  
2016 01 03 17 52 21.3 +19 13 31 0.06991 0.9348 44.5 132.5 27.4  
...  
2016 01 18 17 55 53.1 +10 14 16 0.1613 0.8725 42.9 129.9 28.8

A. U. Tomatic

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