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MPEC 2015-Y41 : 2015 YC1

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M.P.E.C. 2015-Y41

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2015 YC1

Observations:

K15Y01C*	C2015	12	18.18693	04	49	53.96	+26	59	29.8	18.4	VqEY041703
K15Y01C	C2015	12	18.19297	04	49	48.96	+26	57	50.5	18.5	VqEY041703
K15Y01C	C2015	12	18.19902	04	49	44.02	+26	56	10.9	18.0	VqEY041703
K15Y01C	C2015	12	18.20506	04	49	38.99	+26	54	29.7	18.0	VqEY041703
K15Y01C	C2015	12	18.27129	04	48	43.13	+26	35	44.3	18.1	VqEY041703
K15Y01C	C2015	12	18.27174	04	48	42.72	+26	35	36.3	18.5	VqEY041703
K15Y01C	C2015	12	18.27320	04	48	41.44	+26	35	09.9	17.9	VqEY041703
K15Y01C	C2015	12	18.27365	04	48	41.09	+26	35	02.9	18.1	VqEY041703
K15Y01C	C2015	12	18.27511	04	48	39.84	+26	34	37.3	18.1	VqEY041703
K15Y01C	C2015	12	18.27556	04	48	39.46	+26	34	29.9	18.3	VqEY041703
K15Y01C	C2015	12	18.27701	04	48	38.25	+26	34	04.0	18.0	VqEY041703
K15Y01C	C2015	12	18.27747	04	48	37.80	+26	33	56.3	18.0	VqEY041703
K15Y01C	KC2015	12	18.34255	04	47	42.19	+26	14	34.2	17.8	RoEY041291
K15Y01C	KC2015	12	18.34296	04	47	41.84	+26	14	26.7	17.8	RoEY041291
K15Y01C	KC2015	12	18.34340	04	47	41.46	+26	14	18.6	17.8	RoEY041291
K15Y01C	C2015	12	18.35660	04	47	29.91	+26	10	10.7	18.0	VqEY041I52
K15Y01C	C2015	12	18.35962	04	47	27.31	+26	09	14.6	18.7	VqEY041I52
K15Y01C	C2015	12	18.36391	04	47	23.67	+26	07	54.9	18.2	VqEY041I52
K15Y01C	C2015	12	18.36687	04	47	21.16	+26	06	59.9	19.1	VqEY041I52
K15Y01C	C2015	12	18.60742	04	44	34.00	+24	51	09.6	19.2	RoEY041300
K15Y01C	C2015	12	18.60834	04	44	33.08	+24	50	51.0	19.0	RoEY041300
K15Y01C	C2015	12	18.60948	04	44	32.03	+24	50	28.1	19.1	RoEY041300
K15Y01C	C2015	12	18.61040	04	44	31.16	+24	50	09.5	18.9	RoEY041300
K15Y01C	C2015	12	18.61225	04	44	29.44	+24	49	32.2	18.9	RoEY041300
K15Y01C	KC2015	12	19.00352	04	39	06.13	+22	27	08.0	18.0	VqEY041I93
K15Y01C	KC2015	12	19.00496	04	39	04.70	+22	26	33.9	18.2	VqEY041I93
K15Y01C	KC2015	12	19.00956	04	39	00.05	+22	24	44.5	18.2	VqEY041I93
K15Y01C	KC2015	12	19.00983	04	38	59.77	+22	24	38.0	18.3	VqEY041I93
K15Y01C	KC2015	12	19.01484	04	38	54.70	+22	22	38.5	18.3	VqEY041I93
K15Y01C	KC2015	12	19.01628	04	38	53.26	+22	22	04.1	18.0	VqEY041I93
K15Y01C	C2015	12	19.14906	04	37	22.29	+21	29	32.4	18.1	VqEY041I52
K15Y01C	C2015	12	19.15059	04	37	20.68	+21	28	55.0	18.0	VqEY041I52
K15Y01C	C2015	12	19.15303	04	37	18.12	+21	27	55.5	17.9	VqEY041I52
K15Y01C	C2015	12	19.15784	04	37	13.28	+21	26	05.6	18.3	RuEY041926
K15Y01C	C2015	12	19.15958	04	37	11.43	+21	25	22.5	18.4	RuEY041926
K15Y01C	C2015	12	19.16134	04	37	09.53	+21	24	39.8	18.3	RuEY041926
K15Y01C	C2015	12	19.19030304	36	36.40	+21	12	24.5	18.5	VtEY041H01	
K15Y01C	JC2015	12	19.19225	04	36	36.58	+21	11	48.4	17.5	RoEY041695
K15Y01C	JC2015	12	19.19269	04	36	36.11	+21	11	37.5	17.5	RoEY041695
K15Y01C	KC2015	12	19.19278	04	36	23.43	+21	11	21.2	17.9	RuEY041850
K15Y01C	JC2015	12	19.19312	04	36	35.64	+21	11	26.8	17.5	RoEY041695
K15Y01C	JC2015	12	19.19343	04	36	35.30	+21	11	19.0	17.6	RoEY041695
K15Y01C	C2015	12	19.19711304	36	28.98	+21	09	33.2	18.7	VtEY041H01	
K15Y01C	C2015	12	19.20365304	36	21.81	+21	06	47.8	18.5	VtEY041H01	

K15Y01C KC2015 12 19.20612 04 36 08.66 +21 05 38.4 17.5 RuEY041850
 K15Y01C C2015 12 19.20897504 36 15.95 +21 04 32.8 18.5 VtEY041H01
 K15Y01C C2015 12 19.21574 04 36 10.47 +21 01 59.2 18.4 RuEY041926
 K15Y01C C2015 12 19.21751 04 36 08.48 +21 01 14.2 18.5 RuEY041926
 K15Y01C C2015 12 19.21926 04 36 06.58 +21 00 29.3 18.3 RuEY041926
 K15Y01C KC2015 12 19.21947 04 35 53.71 +20 59 56.5 18.1 RuEY041850
 K15Y01C KC2015 12 19.23286 04 35 38.82 +20 54 10.3 18.1 RuEY041850

Observer details:

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

300 Bisei Spaceguard Center--BATTERS. Observers S. Okumura, T. Fujiwara.

1.0-m f/3.0 reflector + CCD.

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

703 Catalina Sky Survey. Observers D. C. Fuls, G. J. Leonard. 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. 0.68-m Schmidt + CCD.

850 Cordell-Lorenz Observatory, Sewanee. Observer D. T. Durig. 0.3-m f/4.8 Schmidt-Cassegrain + CCD.

926 Tenagra II Observatory. Observers M. Schwartz, P. R. Holvorcem. Measurer M. Schwartz. 0.41-m f/3.75 astrograph + CCD, 0.81-m f/7 Ritchey-Chretien + 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.

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

Orbital elements:

2015 YC1 Earth MOID = 0.0023 AU
 Epoch 2016 Jan. 13.0 TT = JDT 2457400.5 MPC
 M 322.87144 (2000.0) P Q
 n 0.87377556 Peri. 267.78278 -0.98776772 -0.10450957
 a 1.0836011 Node 266.20330 +0.14181516 -0.91066367
 e 0.2560526 Incl. 6.66023 -0.06483357 -0.39971168
 P 1.13 H 26.1 G 0.15 U 7

Residuals in seconds of arc

151218 703 0.3+ 0.1+	151218 I52 0.3-	0.1-	151219 926 0.0	0.2-
151218 703 0.5- 0.0	151218 I52 0.2-	0.0	151219 926 0.5-	0.3+
151218 703 0.1- 0.2+	151218 300 1.4+	0.0	151219 H01 0.1-	0.2-
151218 703 0.6- 1.0-	151218 300 0.5+	0.2-	151219 695 0.2+	0.6+
151218 703 0.2+ 0.2+	151218 300 0.7+	0.3-	151219 695 0.3+	0.7+
151218 703 0.2- 0.0	151218 300 0.5+	0.4-	151219 850 0.4+	0.5+
151218 703 0.6- 0.9-	151218 300 0.6+	0.6-	151219 695 0.3+	0.8+
151218 703 0.1- 0.0	151219 I93 0.4-	0.3-	151219 695 0.2+	0.7+
151218 703 0.1- 0.1-	151219 I93 0.0	0.2-	151219 H01 0.0	0.1-
151218 703 0.0 0.3+	151219 I93 0.0	0.2-	151219 H01 0.0	0.2-
151218 703 0.5+ 0.2-	151219 I93 0.1-	0.3-	151219 850 0.6-	0.9-
151218 703 0.3- 0.1+	151219 I93 0.1-	0.3-	151219 H01 0.1-	0.2-
151218 291 0.0 0.5+	151219 I93 0.2+	0.3-	151219 926 0.1-	0.1+
151218 291 0.0 0.5+	151219 I52 0.1-	0.1-	151219 926 0.5-	0.2+
151218 291 0.0 0.5+	151219 I52 0.2-	0.2-	151219 926 0.0	0.1-
151218 I52 0.1- 0.1+	151219 I52 0.1-	0.1-	151219 850 (3.5-	1.8+)
151218 I52 0.5- 0.1-	151219 926 0.1+	0.2+	151219 850 (4.5-	4.3+)

Ephemeris:

2015 YC1 a,e,i = 1.08, 0.26, 7 q = 0.8061
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2015 11 19 05 42 17.0 +43 43 29 0.1691 1.1295 143.9 31.0 23.8
 ...
 2015 12 04 05 40 57.5 +43 10 34 0.08935 1.0676 155.3 22.7 22.1
 ...
 2015 12 12 05 26 50.1 +39 42 44 0.05048 1.0331 163.1 16.1 20.6
 ...
 2015 12 18 04 51 46.3 +27 51 11 0.02336 1.0069 168.2 11.6 18.7
 2015 12 19 04 39 17.3 +22 31 46 0.01925 1.0026 164.9 14.8 18.4
 2015 12 20 04 22 10.3 +14 22 38 0.01548 0.9982 157.5 22.1 18.1
 ...
 2015 12 26 21 37 36.1 -65 06 53 0.01903 0.9721 52.7 126.4 22.8
 ...
 2016 01 03 18 51 47.2 -56 00 08 0.05459 0.9380 33.1 145.1 27.2
 ...
 2016 01 18 18 27 05.4 -49 32 42 0.1288 0.8797 33.8 141.5 28.4

A. U. Tomatic

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