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MPEC 2015-Y49 : 2015 YM1

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M.P.E.C. 2015-Y49

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2015 YM1

Observations:

K15Y01M*	C2015 12 18.32137	05 53 01.35	+19 34 36.5	19.1 VqEY049G96
K15Y01M	C2015 12 18.32596	05 52 57.04	+19 37 16.5	18.8 VqEY049G96
K15Y01M	C2015 12 18.33058	05 52 52.69	+19 39 56.4	18.8 VqEY049G96
K15Y01M	C2015 12 18.33522	05 52 48.33	+19 42 38.6	19.4 VqEY049G96
K15Y01M	C2015 12 18.36310	05 52 22.56	+19 58 27.8	18.6 VqEY049G96
K15Y01M	C2015 12 18.36447	05 52 21.30	+19 59 14.2	19.1 VqEY049G96
K15Y01M	C2015 12 18.36583	05 52 20.08	+19 59 59.4	19.3 VqEY049G96
K15Y01M	C2015 12 18.36719	05 52 18.85	+20 00 45.4	19.3 VqEY049G96
K15Y01M	C2015 12 18.41038	05 51 40.98	+20 24 24.1	18.9 VqEY049G96
K15Y01M	C2015 12 18.41257	05 51 39.13	+20 25 34.5	qEY049G96
K15Y01M	C2015 12 18.41475	05 51 37.30	+20 26 44.3	19.1 VqEY049G96
K15Y01M	C2015 12 18.41701	05 51 35.45	+20 27 54.8	qEY049G96
K15Y01M	C2015 12 19.18183	05 46 09.97	+26 02 59.4	19.6 VqEY049G96
K15Y01M	C2015 12 19.18641	05 46 07.20	+26 04 40.4	19.5 VqEY049G96
K15Y01M	C2015 12 19.19099	05 46 04.43	+26 06 20.8	19.4 VqEY049G96
K15Y01M	C2015 12 19.19559	05 46 01.58	+26 08 00.9	19.5 VqEY049G96
K15Y01M	C2015 12 19.19992	05 45 58.89	+26 09 34.4	19.5 VqEY049I52
K15Y01M	C2015 12 19.20112	05 45 58.17	+26 10 00.5	19.7 VqEY049I52
K15Y01M	C2015 12 19.20353	05 45 56.60	+26 10 52.5	18.2 VqEY049I52
K15Y01M	JC2015 12 19.30468	05 44 52.57	+26 45 42.4	19.3 RoEY049695
K15Y01M	JC2015 12 19.30534	05 44 52.16	+26 45 55.4	19.2 RoEY049695
K15Y01M	JC2015 12 19.30708	05 44 51.03	+26 46 29.5	19.3 RoEY049695
K15Y01M	KC2015 12 20.07815	05 40 12.64	+30 12 35.8	qEY049204
K15Y01M	KC2015 12 20.08828	05 40 08.45	+30 14 44.6	20.1 RqEY049204
K15Y01M	HC2015 12 20.09933	05 40 03.94	+30 17 03.6	qEY049204
K15Y01M	KC2015 12 20.11600	05 40 50.16	+30 21 32.9	21.1 RoEY049291
K15Y01M	KC2015 12 20.11812	05 40 49.34	+30 22 04.4	19.9 RoEY049291

Observer details:

204 [Schiaparelli Observatory](#). Observer L. Buzzi. 0.60-m f/4.64 reflector + CCD.

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.

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.

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.

Orbital elements:

2015 YM1
 Epoch 2016 Jan. 13.0 TT = JDT 2457400.5 Earth MOID = 0.0048 AU
 MPC
 M 89.89549 (2000.0) P Q
 n 0.92819824 Peri. 270.23373 +0.99402434 +0.06019718
 a 1.0408198 Node 86.31611 -0.01867207 +0.91567008
 e 0.2047117 Incl. 5.23543 -0.10754982 +0.39739729
 P 1.06 H 28.5 G 0.15 U 6

Residuals in seconds of arc
 151218 G96 0.0 0.2- 151218 G96 0.3- 0.4+ 151219 I52 0.9- 0.3-
 151218 G96 0.4+ 0.4- 151218 G96 0.2- 0.2+ 151219 695 0.4+ 0.3+
 151218 G96 0.3+ 1.0- 151218 G96 (0.3+ 1.7-) 151219 695 0.6+ 0.3+
 151218 G96 0.2+ 0.7+ 151219 G96 0.3+ 0.5- 151219 695 0.4+ 0.3+
 151218 G96 0.2- 0.2- 151219 G96 0.3+ 0.0 151220 204 0.0 0.5+
 151218 G96 0.4- 0.2+ 151219 G96 0.6+ 0.2+ 151220 204 0.3+ 0.6+
 151218 G96 0.2- 0.3- 151219 G96 0.2+ 0.1+ 151220 204 0.0 0.5+
 151218 G96 0.2- 0.1+ 151219 I52 0.1- 0.3- 151220 291 0.2- 0.8-
 151218 G96 0.2- 0.4+ 151219 I52 0.2+ 0.2- 151220 291 0.5- 0.0

Ephemeris:
 2015 YM1 a,e,i = 1.04, 0.20, 5 q = 0.8278
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2015 11 20 17 06 28.8 -45 35 28 0.1071 0.8988 31.7 144.7 30.9
 ...
 2015 12 05 17 01 52.4 -51 09 44 0.04367 0.9477 29.1 149.6 29.9
 ...
 2015 12 13 15 58 06.0 -66 24 30 0.01264 0.9757 45.2 134.3 25.1
 ...
 2015 12 19 05 47 01.1 +24 58 31 0.01312 0.9971 178.3 1.6 19.3
 2015 12 20 05 40 53.5 +29 57 35 0.01686 1.0006 173.2 6.7 20.1
 2015 12 21 05 36 43.0 +33 06 17 0.02069 1.0041 169.6 10.2 20.7
 ...
 2015 12 27 05 26 25.6 +40 08 04 0.04445 1.0252 159.7 19.4 22.8
 ...
 2016 01 04 05 24 05.6 +42 12 34 0.07758 1.0529 152.8 25.3 24.2
 ...
 2016 01 19 05 31 51.1 +42 12 52 0.1454 1.1020 142.0 33.4 25.9

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