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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

A. U. Tomatic

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