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MPEC 2015-Y79 : 2015 YS7

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M.P.E.C. 2015-Y79

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2015 YS7

Observations:

K15Y07S*	C2015	12	18.45411	08	20	10.87	+19	41	24.4	21.5	VqEY079G96
K15Y07S	C2015	12	18.46157	08	20	11.43	+19	41	10.2	21.2	VqEY079G96
K15Y07S	C2015	12	18.46904	08	20	11.97	+19	40	56.0	21.2	VqEY079G96
K15Y07S	C2015	12	18.47651	08	20	12.53	+19	40	42.1	21.4	VqEY079G96
K15Y07S	C2015	12	18.50080	08	20	14.42	+19	39	55.0		qEY079G96
K15Y07S	C2015	12	18.50731	08	20	14.88	+19	39	42.6	21.0	VqEY079G96
K15Y07S	C2015	12	18.51384	08	20	15.36	+19	39	30.3	21.3	VqEY079G96
K15Y07S	C2015	12	18.52034	08	20	15.89	+19	39	17.9	20.9	VqEY079G96
K15Y07S	C2015	12	19.35214	08	21	25.56	+19	12	33.8	21.1	RoEY079926
K15Y07S	C2015	12	19.36145708	21	26.17	+19	12	14.8		21.7	VtEY079H01
K15Y07S	C2015	12	19.36407	08	21	26.48	+19	12	10.9	21.2	RoEY079926
K15Y07S	C2015	12	19.36524008	21	26.45	+19	12	07.4		21.0	VtEY079H01
K15Y07S	JC2015	12	19.37226	08	21	27.10	+19	11	55.0	20.9	RoEY079695
K15Y07S	C2015	12	19.37238	08	21	27.07	+19	11	54.7	20.9	RoEY079926
K15Y07S	C2015	12	19.37548708	21	27.22	+19	11	47.4		21.2	VtEY079H01
K15Y07S	JC2015	12	19.37616	08	21	27.39	+19	11	47.3	20.8	RoEY079695
K15Y07S	JC2015	12	19.38095	08	21	27.74	+19	11	37.8	20.7	RoEY079695
K15Y07S	C2015	12	19.38270308	21	27.77	+19	11	33.1		21.7	VtEY079H01
K15Y07S	KC2015	12	21.36326	08	24	10.72	+18	03	44.2	19.7	RoEY079291
K15Y07S	KC2015	12	21.36586	08	24	10.88	+18	03	38.0	20.6	RoEY079291
K15Y07S	KC2015	12	21.36847	08	24	11.10	+18	03	33.0	19.9	RoEY079291
K15Y07S	C2015	12	21.41878	08	24	14.83	+18	01	44.8	21.3	VqEY079G96
K15Y07S	C2015	12	21.42424	08	24	15.25	+18	01	33.1	21.1	VqEY079G96
K15Y07S	C2015	12	21.42971	08	24	15.65	+18	01	21.0	21.4	VqEY079G96
K15Y07S	C2015	12	21.43517	08	24	16.08	+18	01	09.4	21.1	VqEY079G96
K15Y07S	C2015	12	21.49234	08	24	20.31	+17	59	05.6	20.9	RoEY079926
K15Y07S	C2015	12	21.50076	08	24	20.90	+17	58	47.5	20.7	RoEY079926
K15Y07S	C2015	12	21.50921	08	24	21.55	+17	58	28.7	21.1	RoEY079926
K15Y07S	C2015	12	23.43890	08	27	01.49	+16	46	02.6	20.3	RtEY079F51
K15Y07S	C2015	12	23.46311	08	27	03.31	+16	45	05.7	21.4	RtEY079F51
K15Y07S	C2015	12	23.47521	08	27	04.19	+16	44	38.0	21.4	RtEY079F51

Observer details:

291 LPL/Spacewatch II. Observers 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.

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

F51 Pan-STARRS 1, Haleakala. Observers N. Primak, A. Schultz, T. Goggia,

M. Willman. Measurer P. Veres. 1.8-m Ritchey-Chretien + CCD.

G96 Mt. Lemmon Survey. Observers A. D. Grauer, D. C. Fuls. 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.

Orbital elements:

2015 YS7 Earth MOID = 0.1610 AU
 Epoch 2016 Jan. 13.0 TT = JDT 2457400.5 MPC
 M 347.72510 (2000.0) P Q
 n 0.25533631 Peri. 252.93724 -0.96410666 -0.16248503
 a 2.4607132 Node 277.32828 +0.23817778 -0.87878236
 e 0.5926656 Incl. 12.22330 -0.11734437 -0.44870946
 P 3.86 H 21.4 G 0.15 U 7

Residuals in seconds of arc

151218	G96	0.1+	0.1+	151219	H01	0.3-	0.3-	151221	G96	0.4+	0.2+
151218	G96	0.1+	0.0	151219	G96	0.1+	0.5+	151221	G96	0.3+	0.1-
151218	G96	0.2-	0.0	151219	G96	0.2-	0.2+	151221	G96	0.7+	0.0
151218	G96	0.2-	0.4+	151219	H01	0.2-	0.2-	151221	G96	0.3+	0.2-
151218	G96	0.5+	0.4-	151219	G96	0.1+	0.4+	151221	G96	0.3-	0.0
151218	G96	0.0	0.3-	151219	G96	0.0	0.3+	151221	G96	0.1-	0.4-
151218	G96	0.3-	0.1-	151219	H01	0.1-	0.3-	151223	F51	0.2-	0.0
151218	G96	0.2+	0.1-	151221	G96	0.0	0.3+	151223	F51	0.2+	0.3-
151219	G96	0.1-	0.2-	151221	G96	0.4-	0.3-	151223	F51	0.0	0.3+
151219	H01	0.2-	0.3-	151221	G96	0.1-	0.2+				
151219	G96	0.2+	0.2+	151221	G96	0.2+	0.1+				

Ephemeris:

2015 YS7 a,e,i = 2.46, 0.59, 12 q = 1.0023
 Date TT R. A. (2000) Decl. Delta r Elong. Phase V
 2015 11 25 07 45 55.3 +27 36 13 0.7277 1.5485 128.5 29.9 23.0
 ...
 2015 12 10 08 08 22.3 +23 25 18 0.5352 1.4285 138.0 27.4 22.0
 ...
 2015 12 18 08 19 33.6 +19 55 40 0.4450 1.3659 143.0 25.7 21.5
 ...
 2015 12 24 08 27 46.7 +16 23 50 0.3837 1.3200 146.3 24.4 21.1
 2015 12 25 08 29 09.0 +15 42 43 0.3740 1.3125 146.8 24.3 21.0
 2015 12 26 08 30 31.4 +14 59 42 0.3645 1.3050 147.2 24.1 20.9
 ...
 2016 01 01 08 38 53.9 +09 55 50 0.3112 1.2609 149.2 23.5 20.5
 ...
 2016 01 09 08 50 55.7 +00 35 03 0.2512 1.2050 148.6 25.1 20.0
 ...
 2016 01 24 09 22 34.3 -27 27 17 0.1828 1.1125 130.9 42.0 19.6

A. U. Tomatic

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