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MPEC 2015-Y54 : 2015 YS1

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M.P.E.C. 2015-Y54

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MPC@CFA.HARVARD.EDU

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2015 YS1

Observations:

K15Y01S*	C2015 12 17.48568	10 03 02.97	+13 14 23.2	20.2	rREY054G45
K15Y01S	C2015 12 17.48989	10 03 02.75	+13 14 06.0	20.1	rREY054G45
K15Y01S	C2015 12 17.49386	10 03 02.46	+13 13 49.8	20.1	rREY054G45
K15Y01S	C2015 12 17.50242	10 03 01.96	+13 13 14.5	20.4	rREY054G45
K15Y01S	C2015 12 17.50764	10 03 01.58	+13 12 53.0	20.6	rREY054G45
K15Y01S	C2015 12 17.52389	10 03 00.55	+13 11 46.5	20.5	rREY054G45
K15Y01S	C2015 12 17.57507	10 02 58.827	+13 08 23.40	20.4	wLEY054F51
K15Y01S	C2015 12 17.58478	10 02 58.203	+13 07 43.96	20.5	wLEY054F51
K15Y01S	C2015 12 17.59459	10 02 57.557	+13 07 03.67	20.6	wLEY054F51
K15Y01S	JC2015 12 18.46539	10 02 09.83	+12 07 44.8	19.8	RoEY054695
K15Y01S	JC2015 12 18.46692	10 02 09.73	+12 07 38.8	19.6	RoEY054695
K15Y01S	JC2015 12 18.47109	10 02 09.45	+12 07 22.0	19.6	RoEY054695
K15Y01S	C2015 12 18.48300	10 02 08.62	+12 06 33.4	20.7	RoEY054926
K15Y01S	C2015 12 18.48910	10 02 08.26	+12 06 08.9	20.8	RoEY054926
K15Y01S	C2015 12 18.49523	10 02 07.84	+12 05 43.9	20.7	RoEY054926
K15Y01S	C2015 12 19.45296410	01 12.03	+11 00 59.1	20.4	VtEY054H01
K15Y01S	C2015 12 19.46124710	01 11.44	+11 00 25.6	20.0	VtEY054H01
K15Y01S	C2015 12 19.46991210	01 10.83	+10 59 50.6	20.7	VtEY054H01
K15Y01S	C2015 12 19.47403910	01 10.54	+10 59 33.9	20.6	VtEY054H01
K15Y01S	C2015 12 20.50918	10 00 05.48	+09 50 10.8	20.2	RoEY054926
K15Y01S	C2015 12 20.51623	10 00 04.94	+09 49 42.9	20.0	RoEY054926
K15Y01S	C2015 12 20.52394	10 00 04.37	+09 49 11.7	20.2	RoEY054926

Observer details:

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 B. Gibson, T. Goggia, N. Primak, A. Schultz, M. Willman. Measurers K. Chambers, S. Chastel, L. Denneau, H. Flewelling, M. Huber, E. Lilly, E. Magnier, R. Wainscoat, C. Waters, R. Weryk. 1.8-m Ritchey-Chretien + CCD.

G45 Space Surveillance Telescope, Atom Site. Observers M. Blythe, R. Brungard, P. Festler, T. McVey, J. Paige, G. Spitz. Measurers M. Cornell, A. Klein, J. Ruprecht, G. Ushomirsky, J. Varey, D. Woods. 3.5-m f/1 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 YS1				Earth MOID = 0.1499 AU	
Epoch 2016 Jan. 13.0 TT = JDT 2457400.5				MPC	
M			(2000.0)	P	Q
n	0.36779967	Peri.	146.25306	+0.38681617	-0.86787035
a	1.9292795	Node	279.23517	+0.76081957	+0.49136993

e 0.4331719 Incl. 18.41042 +0.52108237 -0.07318915
 P 2.68 H 20.9 G 0.15 U 7

Residuals in seconds of arc

151217 G45	0.2-	0.2+	151217 F51	0.1-	0.1-	151219 H01	0.0	0.1-
151217 G45	0.5+	0.2+	151218 695	0.2-	0.1-	151219 H01	0.1+	0.1-
151217 G45	0.1-	0.3+	151218 695	0.1-	0.2+	151219 H01	0.1+	0.2-
151217 G45	0.5+	0.1+	151218 695	0.1-	0.3+	151220 926	0.1-	0.1-
151217 G45	0.2-	0.0	151218 926	0.2-	0.1-	151220 926	0.2-	0.3+
151217 G45	0.3-	0.1+	151218 926	0.6+	0.2+	151220 926	0.1-	0.0
151217 F51	0.1-	0.1-	151218 926	0.5+	0.2+			
151217 F51	0.0	0.1+	151219 H01	0.0	0.1-			

Ephemeris:

2015 YS1	a,e,i = 1.93, 0.43, 18						q = 1.0936		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
2015 11 20		09 59 32.7	+44 00 21	0.3314	1.0951	99.9	62.7	20.9	
...									
2015 12 05		10 08 32.4	+27 37 39	0.3047	1.1154	107.4	57.5	20.6	
...									
2015 12 13		10 06 17.9	+18 23 36	0.2977	1.1352	113.2	52.9	20.5	
...									
2015 12 19		10 01 38.8	+11 31 47	0.2968	1.1538	118.1	48.8	20.4	
2015 12 20		10 00 38.2	+10 24 29	0.2970	1.1572	118.9	48.1	20.4	
2015 12 21		09 59 33.7	+09 17 44	0.2974	1.1606	119.8	47.4	20.4	
...									
2015 12 27		09 51 48.3	+02 52 35	0.3023	1.1830	125.0	42.9	20.3	
...									
2016 01 04		09 38 19.4	-04 42 08	0.3159	1.2165	131.7	37.1	20.3	
...									
2016 01 19		09 07 17.5	-14 36 49	0.3650	1.2889	141.2	28.5	20.5	

A. U. Tomatic

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