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## MPEC 2016-Y87 : 2016 YU8

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M.P.E.C. 2016-Y87

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2016 YU8

Observations:

K16Y08U*	C2016 12 27.44411	08 50 54.41	+32 23 31.0	20.8	rREY087G45
K16Y08U	C2016 12 27.44475	08 50 54.52	+32 23 33.2	20.6	rREY087G45
K16Y08U	C2016 12 27.44957	08 50 54.73	+32 23 46.0	21.2	rREY087G45
K16Y08U	C2016 12 27.45025	08 50 54.79	+32 23 48.1	20.5	rREY087G45
K16Y08U	C2016 12 27.45520	08 50 55.03	+32 24 02.1	20.5	rREY087G45
K16Y08U	C2016 12 27.45594	08 50 55.03	+32 24 04.2	20.8	rREY087G45
K16Y08U	C2016 12 27.46050	08 50 55.25	+32 24 16.9	20.3	rREY087G45
K16Y08U	KC2016 12 29.33242608	52 34.88	+33 54 53.4	20.6	VuEY087H21
K16Y08U	KC2016 12 29.33997208	52 35.22	+33 55 15.8	20.6	VuEY087H21
K16Y08U	KC2016 12 29.34899208	52 35.64	+33 55 42.9	20.6	VuEY087H21
K16Y08U	KC2016 12 29.87162	08 53 03.63	+34 21 48.1	20.1	RoEY087K51
K16Y08U	KC2016 12 29.87405	08 53 03.75	+34 21 55.5	20.0	RoEY087K51
K16Y08U	KC2016 12 29.87549	08 53 03.83	+34 21 59.7	20.0	RoEY087K51
K16Y08U	KC2016 12 29.98792	08 53 09.47	+34 27 45.3	21.1	RcEY087J57
K16Y08U	KC2016 12 29.99117	08 53 09.55	+34 27 56.7	21.7	RcEY087J57
K16Y08U	KC2016 12 29.99484	08 53 09.74	+34 28 07.7	21.3	RcEY087J57
K16Y08U	C2016 12 30.07097	08 53 12.95	+34 31 55.5	20.4	VSEY087033
K16Y08U	C2016 12 30.07326	08 53 13.05	+34 32 02.6	20.0	VSEY087033
K16Y08U	C2016 12 30.07557	08 53 13.16	+34 32 09.5	20.0	VSEY087033
K16Y08U	C2016 12 30.07786	08 53 13.24	+34 32 16.5	20.0	VSEY087033
K16Y08U	C2016 12 30.10205	08 53 14.37	+34 33 30.0	20.1	VSEY087033
K16Y08U	C2016 12 30.10434	08 53 14.46	+34 33 36.9	20.2	VSEY087033
K16Y08U	C2016 12 30.10664	08 53 14.57	+34 33 44.1	19.9	VSEY087033
K16Y08U	C2016 12 30.20119	08 53 18.97	+34 38 30.7	20.0	VSEY087033
K16Y08U	C2016 12 30.20350	08 53 19.08	+34 38 37.4	20.4	VSEY087033
K16Y08U	C2016 12 30.20579	08 53 19.19	+34 38 44.4	20.0	VSEY087033
K16Y08U	C2016 12 30.20822	08 53 19.30	+34 38 51.6	19.9	VSEY087033
K16Y08U	C2016 12 30.23347	08 53 20.53	+34 40 08.2	19.3	VSEY087033
K16Y08U	C2016 12 30.23578	08 53 20.64	+34 40 15.3	19.3	VSEY087033
K16Y08U	C2016 12 30.23807	08 53 20.74	+34 40 22.1	19.6	VSEY087033
K16Y08U	KC2016 12 30.24883	08 53 23.09	+34 41 01.6		oEY087291
K16Y08U	KC2016 12 30.25159	08 53 23.23	+34 41 09.5		oEY087291
K16Y08U	KC2016 12 30.25435	08 53 23.35	+34 41 18.7	20.2	RoEY087291

Observer details:

- 033 Karl Schwarzschild Observatory, Tautenburg.** Observers U. Laux, B. Stecklum. Measurer B. Stecklum. 1.34-m f/3 Schmidt + CCD.
- 291 LPL/Spacewatch II.** Observer A. F. Tubbiolo. 1.8-m f/2.7 reflector + 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.
- H21 Astronomical Research Observatory, Westfield.** Observer R. Holmes. Measurers S. Foglia, L. Buzzi, T. Linder, R. Holmes. 0.76-m f/3.0 astrograph + CCD.
- J57 Centro Astronomico Alto Turia, Valencia.** Observers V. Mas, S. Moros, G. Fornas. Measurers V. Mas, A. Carreno. 0.40-m f/10 Schmidt-Cassegrain + CCD.
- K51 Osservatorio del Celado, Castello Tesino.** Observers G. Favero, R. Furgoni. Measurer R. Furgoni. 0.80-m f/4 reflector + CCD.

Orbital elements:

2016 YU8 Earth [MOID](#) = 0.2980 AU  
 Epoch 2017 Feb. 16.0 TT = JDT 2457800.5 MPC

M 340.07238 (2000.0) P Q  
n 0.40829470 Peri. 96.59555 -0.90527087 +0.17437284  
a 1.7995070 Node 93.97030 -0.31672925 -0.88475624  
e 0.4008850 Incl. 22.85075 +0.28313819 -0.43220425  
P 2.41 H 20.1 G 0.15 U 8

Residuals in seconds of arc

161227 G45	0.8-	0.1+	161229 K51	0.3-	0.3+	161230 033	0.0	0.4-
161227 G45	0.2+	0.5+	161229 K51	0.2-	0.0	161230 033	0.1+	0.3-
161227 G45	0.1-	0.3-	161229 J57	0.6+	0.3+	161230 033	0.1+	0.6-
161227 G45	0.3+	0.1-	161229 J57	0.2-	1.7+	161230 033	0.1+	0.5-
161227 G45	0.4+	0.0	161229 J57	0.0	1.4+	161230 033	0.0	0.6-
161227 G45	0.1-	0.0	161230 033	0.2+	0.5-	161230 033	0.2+	0.4-
161227 G45	0.0	0.1-	161230 033	0.1+	0.4-	161230 033	0.2+	0.3-
161229 H21	0.1+	0.2-	161230 033	0.2+	0.5-	161230 033	0.1+	0.4-
161229 H21	0.1+	0.3-	161230 033	0.1-	0.5-	161230 291	0.3-	0.7+
161229 H21	0.3+	0.2-	161230 033	0.2+	0.5-	161230 291	0.1-	0.1+
161229 K51	0.3-	0.3+	161230 033	0.0	0.6-	161230 291	0.2-	0.7+

Ephemeris:

2016 YU8			a,e,i = 1.80, 0.40, 23				q = 1.0781	
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2016 11 30		08 20 55.9	+18 27 40	0.8156	1.5987	124.8	30.4	22.0
...								
2016 12 15		08 38 32.9	+24 21 12	0.6372	1.5148	137.2	26.2	21.2
...								
2016 12 23		08 46 45.9	+29 07 54	0.5571	1.4699	143.7	23.4	20.8
...								
2016 12 29		08 52 17.4	+33 38 26	0.5055	1.4364	147.7	21.4	20.4
2016 12 30		08 53 09.3	+34 28 23	0.4977	1.4309	148.3	21.2	20.4
2016 12 31		08 54 00.2	+35 19 43	0.4902	1.4253	148.8	21.0	20.4
...								
2017 01 06		08 58 46.2	+40 55 41	0.4501	1.3922	150.3	20.5	20.1
...								
2017 01 14		09 04 21.3	+49 26 00	0.4112	1.3488	147.6	23.0	19.9
...								
2017 01 29		09 13 41.0	+66 12 18	0.3822	1.2712	131.6	35.4	20.0

A. U. Tomatic

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