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MPEC 2016-X37 : 2016 XK

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M.P.E.C. 2016-X37

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2016 XK

Observations:

K16X00K*	C2016	12	02.12943	01	21	27.76	-05	15	06.2	20.6	VqEX037G96
K16X00K	C2016	12	02.13378	01	21	26.97	-05	15	09.6	20.5	VqEX037G96
K16X00K	C2016	12	02.13807	01	21	26.17	-05	15	11.8	21.2	VqEX037G96
K16X00K	C2016	12	02.14235	01	21	25.44	-05	15	15.3	20.9	VqEX037G96
K16X00K	KC2016	12	02.47398	01	20	30.98	-05	17	24.5	20.7	RtEX037474
K16X00K	KC2016	12	02.47750	01	20	30.37	-05	17	26.5	19.5	RtEX037474
K16X00K	KC2016	12	02.48101	01	20	29.74	-05	17	28.6	20.5	RtEX037474
K16X00K	KC2016	12	02.48453	01	20	29.09	-05	17	31.4	21	RtEX037474
K16X00K	KC2016	12	02.48805	01	20	28.55	-05	17	33.1	19.8	RtEX037474
K16X00K	C2016	12	02.76392	01	19	47.35	-05	21	49.2	21.4	VSEX037033
K16X00K	C2016	12	02.76630	01	19	46.95	-05	21	51.0	21.9	VSEX037033
K16X00K	C2016	12	02.76866	01	19	46.52	-05	21	52.6	21.4	VSEX037033
K16X00K	C2016	12	02.77103	01	19	46.13	-05	21	53.8	21.1	VSEX037033
K16X00K	C2016	12	02.77339	01	19	45.70	-05	21	55.2	21.4	VSEX037033
K16X00K	C2016	12	02.82365	01	19	36.85	-05	22	25.9	21.3	VSEX037033
K16X00K	C2016	12	02.82601	01	19	36.47	-05	22	27.8	21.1	VSEX037033
K16X00K	C2016	12	02.82838	01	19	36.03	-05	22	28.8	21.5	VSEX037033
K16X00K	C2016	12	02.83074	01	19	35.60	-05	22	30.4	21.7	VSEX037033
K16X00K	KC2016	12	02.88856	01	19	25.89	-05	22	58.6	20.6	RcEX037357
K16X00K	KC2016	12	02.89925	01	19	24.00	-05	23	04.9	20.2	RcEX037357
K16X00K	KC2016	12	02.92681	01	19	19.05	-05	23	20.6	20.7	RcEX037357
K16X00K	KC2016	12	03.06504	01	18	59.30	-05	24	44.7	20.2	RqEX037H36
K16X00K	KC2016	12	03.08138	01	18	56.33	-05	24	54.3	20.7	RqEX037H36
K16X00K	KC2016	12	03.09773	01	18	53.35	-05	25	04.6	20.9	RqEX037H36
K16X00K	KC2016	12	03.42025	01	18	00.12	-05	26	56.7	20.8	RtEX037474
K16X00K	KC2016	12	03.42377	01	17	59.46	-05	26	59.9	20.1	RtEX037474
K16X00K	KC2016	12	03.42729	01	17	58.83	-05	27	01.9	20.7	RtEX037474
K16X00K	KC2016	12	03.43081	01	17	58.17	-05	27	03.2	19.6	RtEX037474

Observer details:

033 Karl Schwarzschild Observatory, Tautenburg. Observers B. Stecklum, C. Hoegner. Measurer B. Stecklum. 1.34-m f/3 Schmidt + CCD.
474 Mount John Observatory, Lake Tekapo. Observers A. C. Gilmore, P. M. Kilmartin. Measurer P. M. Kilmartin. 1.0-m f/7.7 reflector + CCD.
696 Mt. Lemmon Survey. 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. 1.5-m reflector + 10K CCD.
H36 Sandlot Observatory, Scranton. Observer G. Hug. 0.56-m reflector + CCD.
J57 Centro Astronomico Alto Turia, Valencia. Observers V. Mas, G. Fornas. Measurer A. Carreno. 0.40-m f/10 Schmidt-Cassegrain + CCD.

Orbital elements:

2016 XK									
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5									
Earth MOID = 0.0102 AU									
MPC									
M	12.34573		(2000.0)	P		Q			
n	0.38621183	Peri.	20.64181	-0.45450114		-0.88898188			
a	1.8674644	Node	96.42689	+0.80913281		-0.43834556			
e	0.4996129	Incl.	3.23259	+0.37246853		-0.13253068			
P	2.55	H	23.2	G	0.15	U	6		
Residuals in seconds of arc									
161202	G96	0.5+	0.6+	161202	033	0.4+	0.0	161202	J57 0.0 0.6+
161202	G96	0.3+	0.1-	161202	033	0.1+	0.1-	161203	H36 0.5+ 0.5-

161202 G96	0.3-	0.4+	161202 033	0.5+	0.1+	161203 H36	0.1+	0.1-
161202 G96	0.2+	0.4-	161202 033	0.2+	0.2+	161203 H36	0.3-	0.4-
161202 474	0.2+	0.0	161202 033	0.1-	0.3+	161203 474	0.5+	0.8+
161202 474	0.3+	0.1+	161202 033	0.4+	0.2-	161203 474	0.1+	0.4-
161202 474	0.0	0.1+	161202 033	0.1+	0.3+	161203 474	0.2+	0.3-
161202 474	0.6-	0.6-	161202 033	0.1-	0.1+	161203 474	0.2-	0.5+
161202 474	0.4+	0.2-	161202 J57	0.1-	0.4-			
161202 033	0.1+	0.3+	161202 J57	0.3+	0.2-			

Ephemeris:

2016 XK		a, e, i = 1.87, 0.50, 3				q = 0.9345		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2016 11 03		02 19 37.1	+00 59 56	0.2856	1.2705	165.5	11.2	21.7
...								
2016 11 18		01 54 01.9	-02 25 42	0.2059	1.1669	147.2	27.3	21.3
...								
2016 11 26		01 36 35.5	-04 06 48	0.1715	1.1153	135.3	38.5	21.1
...								
2016 12 02		01 21 47.4	-05 13 10	0.1479	1.0791	125.8	47.8	21.0
2016 12 03		01 19 08.7	-05 23 22	0.1441	1.0734	124.2	49.4	21.0
2016 12 04		01 16 26.3	-05 33 21	0.1403	1.0676	122.5	51.1	21.0
...								
2016 12 10		00 58 24.1	-06 29 25	0.1180	1.0352	112.3	61.7	20.8
...								
2016 12 18		00 24 52.2	-07 44 03	0.08877	0.9975	96.3	78.7	20.7
...								
2017 01 02		21 27 09.1	-10 45 50	0.04529	0.9487	39.3	138.9	23.1

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