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NEOChecker
NEOCMTChecker

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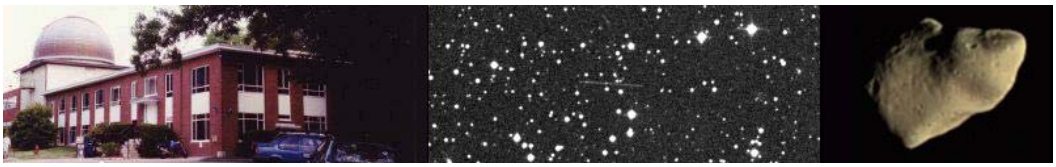

MPEC 2010-A40 : 2010 AB3

The following *Minor Planet Electronic Circular* may be linked-to from your own Web pages, but must **not** otherwise be redistributed electronically.

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M.P.E.C. 2010-A40 **Issued 2010 Jan. 9, 17:22 UT**

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MPC@CFA.HARVARD.EDU
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2010 AB3

Observations:

```
     K10A03B* C2010 01 08.17327 04 47 51.82 +26 48 05.0          19.3 V EA040G96
     K10A03B  C2010 01 08.18121 04 47 56.76 +26 48 01.2          19.4 V EA040G96
     K10A03B  C2010 01 08.18771 04 48 00.82 +26 47 57.7          19.6 V EA040G96
     K10A03B  C2010 01 08.19419 04 48 04.86 +26 47 54.2          19.5 V EA040G96
     K10A03B  C2010 01 08.20068 04 48 08.89 +26 47 51.2          19.4 V EA040G96
     K10A03B  C2010 01 08.24474 04 48 36.28 +26 47 25.7          19.7 V EA040G96
     K10A03B  C2010 01 08.24525 04 48 36.61 +26 47 25.4          19.6 V EA040G96
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     K10A03B  C2010 01 08.24628 04 48 37.22 +26 47 25.0          19.6 V EA040G96
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     K10A03B ]C2010 01 08.26641004 48 49.78 +26 47 13.6          20.2 C EA040695
     K10A03B ]C2010 01 08.26737404 48 50.38 +26 47 13.0          20.2 C EA040695
     K10A03B ]C2010 01 08.26797304 48 50.75 +26 47 12.7          20.2 C EA040695
     K10A03B ]C2010 01 08.26859104 48 51.13 +26 47 12.2          20.2 C EA040695
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     K10A03B  C2010 01 08.28840 04 49 03.47 +26 46 59.3          20.2 R EA040854
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     K10A03B  C2010 01 08.29362 04 49 06.65 +26 46 55.3          20.4 R EA040854
     K10A03B 5C2010 01 08.30035 04 49 11.30 +26 46 50.9                 EA040673
     K10A03B  C2010 01 09.12562 04 58 04.33 +26 38 09.4          19.5 V EA040G96
     K10A03B  C2010 01 09.12623 04 58 04.69 +26 38 09.0          19.9 V EA040G96
     K10A03B  C2010 01 09.12679 04 58 05.05 +26 38 09.2          20.0 V EA040G96
     K10A03B  C2010 01 09.12740 04 58 05.41 +26 38 08.1          20.0 V EA040G96
     K10A03B  C2010 01 09.14409 04 58 15.20 +26 37 57.2          19.3 R EA040H01
     K10A03B  C2010 01 09.15280 04 58 20.47 +26 37 51.6          19.3 R EA040H01
     K10A03B  C2010 01 09.15923 04 58 24.36 +26 37 47.4          19.3 R EA040H01
     K10A03B  C2010 01 09.16621 04 58 28.56 +26 37 42.7          19.3 R EA040H01
     K10A03B  C2010 01 09.28411 04 59 39.76 +26 36 18.9          19.7 V EA040G96
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     K10A03B 5C2010 01 09.33377 05 00 10.26 +26 35 37.9                 EA040673
     K10A03B 5C2010 01 09.34072 05 00 14.42 +26 35 32.3                 EA040673
     K10A03B 5C2010 01 09.34766 05 00 18.66 +26 35 26.3                 EA040673
```

Observer details:
673 Table Mountain Observatory, Wrightwood. Observer D. Mayes. 0.6-m f/16 Cassegrain + CCD.
695 Kitt Peak. Observers M. Trueblood, L. Lebofsky. Measurer R. Crawford. 2.1-m f/7.7 Ritchey-Chretien + CCD.

854 Sabino Canyon Observatory, Tucson. Observer J. E. McGaha. 0.36-m f/10.0 Sc[illegible]egrain + CCD.
G96 Mt [illegible]urvey. Observer A. Boattini. Measurers J. D. Ahern, E. C. Beshore, A. Boattini, G. J. Garradd, A. R. Gibbs, A. D. Grauer, R. E. Hill, R. A. Kowalski, S. M. Larson, R. H. McNaught. 1.5-m reflector + CCD.
H01 Magdalena Ridge Observatory, Socorro. Observer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.

Orbital elements:

2010 AB3 Earth MOID = 0.0668 AU
Epoch 2010 Jan. 4.0 TT = JDT 2455200.5 MPC

M	3.87699	(2000.0)	P	Q	
n	0.23313932	Peri.	144.17619	+0.16407402	-0.98583946
a	2.6145224	Node	296.35758	+0.89580839	+0.16361209
e	0.5994912	Incl.	2.21587	+0.41304605	+0.03676479
P	4.23	H	23.2	G 0.15	U 8

Residuals in seconds of arc

100108	G96	0.5-	0.5-	100108	695	0.9+	0.0	100109	H01	0.0	0.1+
100108	G96	0.4-	0.2-	100108	673	(6.6-	0.9+)	100109	H01	0.1+	0.1+
100108	G96	0.1-	0.3-	100108	854	1.2+	0.2+	100109	H01	0.0	0.0
100108	G96	0.1+	0.4-	100108	673	1.6+	0.2-	100109	G96	0.0	0.1-
100108	G96	0.1+	0.1+	100108	854	1.9+	0.3+	100109	G96	0.0	0.1+
100108	G96	1.0+	0.3-	100108	673	(6.4-	0.8+)	100109	G96	0.5+	0.1-
100108	G96	1.2+	0.3-	100108	854	1.0+	0.3-	100109	G96	0.3+	0.0
100108	G96	0.8+	0.0	100108	673	0.3-	0.8+	100109	673	0.8-	0.5+
100108	G96	0.8+	0.1-	100109	G96	0.2+	0.2-	100109	673	0.1+	0.1-
100108	G96	0.7+	0.2-	100109	G96	0.0	0.3-	100109	673	0.5-	0.0
100108	695	0.9+	0.0	100109	G96	0.3+	0.3+	100109	673	0.0	0.2-
100108	695	0.9+	0.0	100109	G96	0.2+	0.5-				
100108	695	0.9+	0.1+	100109	H01	0.1-	0.1+				

Ephemeris:

2010 AB3 a,e,i = 2.61, 0.60, 2 q = 1.0471

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
2010 01 04		04 00.40	+26 58.8	0.110	1.069	139.7	36.5	20.0
2010 01 05		04 12.07	+27 01.6	0.111	1.072	141.3	35.0	20.0
2010 01 06		04 23.59	+27 00.9	0.112	1.075	142.8	33.6	20.0
2010 01 07		04 34.90	+26 56.9	0.114	1.078	144.3	32.1	20.0
2010 01 08		04 45.95	+26 49.8	0.115	1.081	145.8	30.8	20.0
2010 01 09		04 56.70	+26 39.8	0.117	1.084	147.2	29.5	20.0
2010 01 10		05 07.10	+26 27.3	0.120	1.087	148.5	28.2	20.0
2010 01 11		05 17.13	+26 12.7	0.122	1.091	149.7	27.0	20.0
2010 01 12		05 26.77	+25 56.1	0.125	1.095	150.9	25.9	20.1
2010 01 13		05 36.02	+25 38.1	0.128	1.098	152.0	24.9	20.1
2010 01 14		05 44.86	+25 18.8	0.131	1.102	153.0	23.9	20.1
2010 01 15		05 53.29	+24 58.6	0.135	1.106	153.9	23.1	20.2
2010 01 16		06 01.32	+24 37.8	0.138	1.110	154.7	22.3	20.2
2010 01 17		06 08.96	+24 16.5	0.142	1.115	155.4	21.5	20.2
2010 01 18		06 16.22	+23 55.0	0.146	1.119	156.1	20.9	20.3
2010 01 19		06 23.11	+23 33.4	0.150	1.124	156.6	20.3	20.3
2010 01 20		06 29.65	+23 11.9	0.155	1.128	157.1	19.8	20.4
2010 01 21		06 35.86	+22 50.7	0.159	1.133	157.6	19.4	20.5
2010 01 22		06 41.75	+22 29.7	0.164	1.138	157.9	19.0	20.5
2010 01 23		06 47.34	+22 09.2	0.169	1.143	158.2	18.6	20.6
2010 01 24		06 52.65	+21 49.1	0.174	1.148	158.4	18.4	20.6

Timothy B. Spahr **M.P.E.C. 2010-A40**

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