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Search MPC/CBAT

# IAU Minor Planet Center

## MPC Operations Status

[Processing \(Info\)](#)[ECS: Accessible](#)

## Observer Services (NEOs)

NEO Services Overview  
 NEO Confirmation  
 NEO Confirmation (RA order)  
 NEO Ratings  
 NEO Page  
 NEO Observation Planning Aid  
 NEOChecker  
 NEOCMTChecker

## Observer Services

Services Overview  
 IAUMail  
 Minor Planet & Comet Ephem.  
 Natural Satellite Ephemerides  
 New Object Ephemerides  
 MPChecker  
 CMTChecker  
 Distant Artificial Satellites  
 Observing List Customizer  
 Sky Coverage

## Orbital Elements

Orbital Elements Overview  
 MPCORB  
 Orbital Elements for Programs  
 MPCAT  
 MPCUPDATE

## Astrometric Observations

MPCAT-OBS  
 MPCOBS

## Publications

Publications Overview  
 MPECs  
 MPC Archive  
 MPC RSS Feeds  
 CBAT RSS Feeds

## Documentation

Documentation Overview  
 Minor Body Astrometry  
 MPC Status Page  
 What's New

## Lists and Plots

Lists and Plots Overview  
 Minor Planets

Comets  
 Animations

## General Information

Astronomical Headlines  
 Press Information Sheets

## General



## MPEC 2010-A41 : 2010 AC3

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

[Read MPEC 2010-A40](#)[Read MPEC 2010-A42](#)

M.P.E.C. 2010-A41

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### 2010 AC3

#### Observations:

K10A03C*	C2010 01 08.20894 06 07 38.31 +15 37 54.9	20.2 V	EA041G96
K10A03C	C2010 01 08.22065 06 07 37.74 +15 36 47.3	20.4 V	EA041G96
K10A03C	C2010 01 08.22654 06 07 37.45 +15 36 13.7	20.1 V	EA041G96
K10A03C	C2010 01 08.23243 06 07 37.16 +15 35 39.8	19.9 V	EA041G96
K10A03C	C2010 01 08.28148 06 07 34.75 +15 30 56.9	20.4 V	EA041G96
K10A03C	C2010 01 08.28282 06 07 34.67 +15 30 49.5	20.7 V	EA041G96
K10A03C	C2010 01 08.28413 06 07 34.60 +15 30 41.3	20.3 V	EA041G96
K10A03C	]C2010 01 08.28995006 07 34.35 +15 30 08.6	20.9 C	EA041695
K10A03C	]C2010 01 08.29076306 07 34.32 +15 30 03.9	20.8 C	EA041695
K10A03C	]C2010 01 08.29144906 07 34.27 +15 30 00.0	20.9 C	EA041695
K10A03C	]C2010 01 08.29213106 07 34.26 +15 29 56.1	21.1 C	EA041695
K10A03C	C2010 01 09.16294 06 07 06.86 +14 08 10.4	19.6 R	EA041H01
K10A03C	C2010 01 09.16946 06 07 06.71 +14 07 35.1	20.8 V	EA041G96
K10A03C	C2010 01 09.17013 06 07 06.68 +14 07 30.8	21.0 V	EA041G96
K10A03C	C2010 01 09.17079 06 07 06.63 +14 07 27.4	20.9 V	EA041G96
K10A03C	C2010 01 09.17641 06 07 06.27 +14 06 56.4	19.7 R	EA041H01
K10A03C	C2010 01 09.18736 06 07 05.80 +14 05 56.2	19.6 R	EA041H01
K10A03C	C2010 01 09.19918 06 07 05.29 +14 04 51.9	19.6 R	EA041H01
K10A03C	C2010 01 09.26145 06 07 02.71 +13 59 11.3	21.0 V	EA041G96
K10A03C	C2010 01 09.26576 06 07 02.47 +13 58 47.3	20.4 V	EA041G96

#### Observer details:

[695 Kitt Peak.](#) Observers M. Trueblood, L. Lebofsky. Measurer R. Crawford. 2.1-m f/7.7 Ritchey-Chretien + CCD.

[G96 Mt. Lemmon Survey.](#) 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 AC3  
 Epoch 2010 Jan. 4.0 TT = JDT 2455200.5  
 Earth [MOID](#) = 0.1886 AU  
 MPC

M	P	Q
19.82478	(2000.0)	
0.43570357	Peri. 137.56065	+0.45986671
1.7232249	Node 281.32066	+0.66605434
0.3564164	Incl. 23.94473	+0.58727696
P 2.26	H 22.5	G 0.15
		U 8

#### Residuals in seconds of arc

100108 G96 0.1+	0.1-	100108 695 0.1-	0.1+	100109 G96 0.3-	0.4-
100108 G96 0.1+	0.3-	100108 695 0.0	0.1+	100109 H01 0.1-	0.1+

- Contact Us
- Index
- Site Map
- Search Site

- Tech Info
- Documentation

**Links**

- Minor Planet Center
- Central Bureau for Astro. Tel.
- International Comet Quarterly*
- Smithsonian Astro. Obs.

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100108 G96	0.1+	0.1+	100108 695	0.2-	0.2+	100109 H01	0.0	0.1-
100108	0.1+	0.1+	100108 695	0.1+	0.2+	100109 H01	0.0	0.4+
100108	0.1-	0.1-	100109 H01	0.1+	0.3+	100109 G96	0.5+	0.2+
100108 G96	0.1-	0.2+	100109 G96	0.0	0.0	100109 G96	0.2-	0.2-
100108 G96	0.2-	0.4-	100109 G96	0.0	0.6-			

**Ephemeris:**

2010 AC3			a, e, i = 1.72, 0.36, 24				q = 1.1090		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
2010 01 04		06 10.82	+23 06.0	0.211	1.192	169.1	9.0	20.1	
2010 01 05		06 09.93	+21 12.0	0.216	1.195	167.7	10.1	20.2	
2010 01 06		06 09.12	+19 22.7	0.220	1.198	166.2	11.3	20.3	
2010 01 07		06 08.40	+17 38.1	0.225	1.202	164.5	12.6	20.4	
2010 01 08		06 07.75	+15 58.4	0.231	1.206	162.8	14.0	20.5	
2010 01 09		06 07.18	+14 23.5	0.236	1.209	161.1	15.3	20.6	
2010 01 10		06 06.68	+12 53.3	0.242	1.213	159.4	16.6	20.7	
2010 01 11		06 06.26	+11 27.8	0.248	1.217	157.7	17.8	20.8	
2010 01 12		06 05.90	+10 06.7	0.254	1.220	156.1	19.1	20.9	
2010 01 13		06 05.60	+08 50.1	0.261	1.224	154.5	20.2	21.0	
2010 01 14		06 05.37	+07 37.7	0.267	1.228	153.0	21.3	21.1	
2010 01 15		06 05.20	+06 29.4	0.274	1.232	151.5	22.4	21.2	
2010 01 16		06 05.08	+05 25.0	0.282	1.236	150.1	23.4	21.3	
2010 01 17		06 05.03	+04 24.4	0.289	1.240	148.7	24.3	21.4	
2010 01 18		06 05.02	+03 27.2	0.296	1.244	147.4	25.2	21.5	
2010 01 19		06 05.07	+02 33.5	0.304	1.248	146.1	26.1	21.6	
2010 01 20		06 05.18	+01 42.9	0.312	1.252	144.9	26.9	21.7	
2010 01 21		06 05.33	+00 55.4	0.320	1.256	143.7	27.6	21.8	
2010 01 22		06 05.53	+00 10.7	0.328	1.260	142.6	28.3	21.8	
2010 01 23		06 05.77	-00 31.2	0.336	1.265	141.5	29.0	21.9	
2010 01 24		06 06.07	-01 10.6	0.344	1.269	140.4	29.6	22.0	

Timothy B. Spahr

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