MPEC 2016-Y86 : 2016 YT8

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M.P.E.C. 2016-Y86 Issued 2016 Dec. 30, 15:49 UT

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2016 YT8

Observations:

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     K16Y08T* C2016 12 27.43430 06 36 37.84 +34 48 47.6          19.4 VqEY086G96
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     K16Y08T  C2016 12 30.23233 06 29 20.84 +36 25 54.3          19.3 VqEY086I52
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Observer details:

033 Karl Schwarzschild Observatory, Tautenburg. Observers U. Laux, B. Stecklum. Measurer B. Stecklum. 1.34-m f/3 Schmidt + CCD.

160 Castelmartini. Observers M. Jaeger, E. Prosperi, S. Prosperi, W. Vollmann. Measurer E. Prosperi. 0.35-m f/10 Schmidt-Cassegrain + CCD.

203 GiaGa Observatory. Observers S. Foglia, G. Galli. Measurer G. Galli. 0.28-m f/6.8 Schmidt-Cassegrain + CCD.

204 Schiaparelli Observatory. Observer L. Buzzi. 0.60-m f/4.64 reflector + CCD.

246 Klet Observatory-KLENOT. Observers M. Tichy, J. Ticha. Measurer M. Tichy. 1.06-m KLENOT Telescope + CCD.

300 Bisei Spaceguard Center--BATTeRS. Observers S. Okumura, T. Fujiwara. 1.0-m f/3.0 reflector + CCD.

587 Sormano. Observers A. Fumagalli, F. Manca, I. Proserpio, A. Testa. Measurer F. Manca. 0.5-m f/6.8 reflector + CCD.

595 Farra d'Isonzo. Observers E. Pettarin, F. Piani. Measurer E. Pettarin. 0.61-m f/4.0 reflector + CCD.

958 Observatoire de Dax. Observers P. Dupouy, J. B. de Vanssay. Measurer P. Dupouy. 0.43-m f/2.7 reflector + CCD.

B49 Paus Observatory, Sabadell. Observer J. Camarasa. 0.30-m f/4 Newtonian reflector + CCD.

C43 Hoyerswerda. Observer P. Lindner. 0.30-m f/6.3 Schmidt-Cassegrain + CCD.

C77 Bernezzo Observatory. Observer A. Mantero. 0.25-m f/4 reflector + CCD.

G96 Mt. Lemmon Survey. Observer R. G. Matheny. 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.

H01 Magdalena Ridge Observatory, Socorro. Observers W. H. Ryan, E. V. Ryan. Measurer W. H. Ryan. 2.4-m f/8.9 reflector + CCD.

H21 Astronomical Research Observatory, Westfield. Observer R. Holmes. Measurers S. Foglia, L. Buzzi, T. Linder, R. Holmes. 0.61-m f/4.5 astrograph + CCD.

I52 Steward Observatory, Mt. Lemmon Station. Observers D. C. Fuls, 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. 1.0-m reflector + CCD.

I93 St Pardon de Conques. Observer F. Losse. 0.40-m f/3.7 reflector + 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.

K38 M57 Observatory, Saltrio. Observer G. Baj. 0.30-m f/8 Ritchey-Chretien + CCD.

K51 Osservatorio del Celado, Castello Tesino. Observers G. Favero, R. Furgoni. Measurer R. Furgoni. 0.80-m f/4 reflector + CCD.

K65 Cesena. Observers V. Tinella, N. A. R. O. Nicolini Astronomical Robotic Observatory. Measurer V. Tinella. 0.40-m f/7 Schmidt-Cassegrain + CCD.

K88 GINOP-KHK, Piszkesteto. Observer K. Sarneczky. 0.60-m Schmidt + CCD.

Z84 Calar Alto-Schmidt. Observers M. Micheli, E. Schwab, D. Koschny. Measurer M. Micheli. 0.8-m f/6.6 Schmidt + CCD.

Z99 Clixby Observatory, Cleethorpes. Observer A. Mickleburgh. 0.36-m f/8 Schmidt-Cassegrain + CCD.

Orbital elements:

```
2016 YT8                                          PHA, Earth MOID = 0.0350 AU
Epoch 2017 Feb. 16.0 TT = JDT 2457800.5               MPC
M 349.33551             (2000.0)            P             Q
n   0.34320473     Peri.  121.02825     -0.94707051     +0.28122330
a   2.0203838      Node    75.68849     -0.32086596     -0.84444399
e   0.6320858      Incl.    9.19437     +0.01012333     -0.45588134
P   2.87           H   20.3          G   0.15          U   8
```

Residuals in seconds of arc

```
161227 G96  0.1+  0.1+    161227 K65  0.1+  0.6+    161228 160  0.1+  0.1-
161227 G96  0.1+  0.4-    161227 203  0.2-  0.3-    161228 160  0.2-  0.1+
161227 G96  0.0   0.3+    161228 K65  0.0   0.2+    161228 160  0.5-  0.2+
161227 G96  0.1-  0.1+    161228 K65  0.6+  0.6+    161228 B49  0.6-  0.3+
161227 G96  0.2+  0.0     161228 204  0.1+  0.1-    161228 B49  0.6-  0.4-
161227 G96  0.5-  0.3+    161228 204  0.1+  0.0     161228 B49  0.2-  0.2-
161227 G96  0.4+  0.1-    161228 204  0.3-  0.1-    161229 300  2.0+  0.4-
```

```
161227 G96  0.1-  0.3-    161228 H21  0.2-  0.0     161229 300  0.4+  0.1-
161227 I52  0.3-  0.4-    161228 H21  0.1-  0.2-    161229 300  0.9+  0.8-
161227 I52  0.0   0.0     161228 H21  0.0   0.2+    161229 033  0.1-  0.4-
161227 I52  0.2+  0.1+    161228 G96  0.1-  0.2+    161229 033  0.1-  0.2-
161227 I52  0.1-  0.3-    161228 G96  0.3+  0.1+    161229 033  0.1-  0.3-
161227 H01  0.0   0.0     161228 G96  0.2+  0.0     161229 246  0.3+  0.2+
161227 H01  0.0   0.1-    161228 G96  0.0   0.2-    161229 246  0.1+  0.6+
161227 H01  0.0   0.1-    161228 K88  0.2+  0.2+    161229 246  0.2+  0.4-
161227 H01  0.0   0.0     161228 K88  0.5+  0.2+    161229 246  0.4-  0.5+
161227 587  0.9+  0.3-    161228 K51  0.2-  0.0     161229 246  0.2-  0.3-
161227 587  0.6+  0.6-    161228 Z99  0.2+  0.5-    161229 246  0.1-  0.4+
161227 958  0.1-  0.4+    161228 K51  0.2+  0.3+    161229 246  0.0   0.6+
161227 958  0.9-  0.5+    161228 Z99  0.0   0.4-    161229 246  0.8+  1.4+
161227 958  0.7-  0.4+    161228 K51  0.1-  0.1+    161229 033  0.1-  0.2-
161227 C77  0.1+  0.3+    161228 Z99  0.3+  0.5-    161229 033  0.1+  0.3-
161227 C77  0.1+  0.4+    161228 K38  0.0   0.0     161229 033  0.2-  0.3-
161227 C77  0.4-  0.3-    161228 Z99  0.2+  0.8-    161229 J57  0.7-  1.0+
161227 Z84  0.1+  0.0     161228 595  0.2+  0.3+    161229 J57  0.7-  1.0+
161227 I93  0.0   0.0     161228 K38  0.3+  0.3+    161230 I52  0.4-  0.6-
161227 Z84  0.2+  0.1-    161228 C43  0.0   0.6-    161230 I52  0.4-  0.3-
161227 Z84  0.1+  0.0     161228 C43  0.1-  0.1-    161230 I52  0.4-  0.4-
161227 I93  0.1+  0.1+    161228 595  0.1-  0.6+    161230 I52  0.0   0.5-
161227 I93  0.0   0.1-    161228 K38  0.0   0.3+
161227 203  0.9-  0.5-    161228 C43  0.1-  0.4+

Ephemeris:
2016 YT8                a,e,i = 2.02, 0.63, 9                  q = 0.7433
Date    TT    R. A. (2000) Decl.     Delta      r     Elong.  Phase     V
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...
2016 12 15    06 56 23.1 +29 16 53   0.5205  1.4837   159.8    13.2    20.5
...
2016 12 23    06 45 48.0 +32 32 38   0.4310  1.4073   167.3     8.8    19.8
...
2016 12 29    06 32 43.2 +35 42 02   0.3722  1.3492   167.5     9.1    19.4
2016 12 30    06 29 59.7 +36 17 29   0.3631  1.3394   166.8     9.7    19.4
2016 12 31    06 27 05.6 +36 54 03   0.3542  1.3296   165.9    10.4    19.3
...
2017 01 06    06 05 19.9 +40 56 48   0.3055  1.2708   157.4    17.3    19.2
...
2017 01 14    05 20 32.2 +47 10 06   0.2529  1.1918   141.5    30.9    19.0
...
2017 01 29    02 33 09.6 +55 54 35   0.1924  1.0455   103.1    66.6    19.2

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