MPEC 2008-Y30 : 2008 YK2

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M.P.E.C. 2008-Y30 **Issued 2008 Dec. 22, 17:08 UT**

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2008 YK2

Observations:

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     K08Y02K* C2008 12 20.32714 07 41 32.05 +22 01 20.8          18.1   EY030704
     K08Y02K  C2008 12 20.34005 07 41 33.28 +22 02 32.0          18.2   EY030704
     K08Y02K  C2008 12 20.35295 07 41 34.61 +22 03 39.9          18.2   EY030704
     K08Y02K  C2008 12 20.36586 07 41 35.85 +22 04 49.6          18.2   EY030704
     K08Y02K  C2008 12 20.37872 07 41 37.15 +22 05 59.0          18.2   EY030704
     K08Y02K  C2008 12 20.94770 07 42 41.46 +22 57 31.9          17.7 R EY030235
     K08Y02K  C2008 12 20.95540 07 42 42.25 +22 58 14.0          18.3 R EY030235
     K08Y02K  C2008 12 20.96339 07 42 43.08 +22 58 58.7          17.9 R EY030235
     K08Y02K  C2008 12 20.96699 07 42 43.49 +22 59 16.7          17.9 V EY030A74
     K08Y02K  C2008 12 20.96917 07 42 43.62 +22 59 31.6          18.4 V EY030595
     K08Y02K  C2008 12 20.97406 07 42 44.23 +22 59 58.3          18.2 V EY030595
     K08Y02K  C2008 12 20.97529 07 42 44.35 +23 00 02.8          18.1 V EY030A74
     K08Y02K  C2008 12 20.98011 07 42 44.82 +23 00 31.7                 EY030595
     K08Y02K  C2008 12 20.98323 07 42 45.18 +23 00 47.1          17.6 V EY030A74
     K08Y02K  C2008 12 21.00165 07 42 47.08 +23 02 28.9          18.1 V EY030A74
     K08Y02K  C2008 12 21.00381 07 42 47.43 +23 02 40.4          17.9 V EY030A74
     K08Y02K  C2008 12 21.00562 07 42 47.57 +23 02 52.2          16.8 V EY030A74
     K08Y02K  C2008 12 21.00682 07 42 48.07 +23 03 03.1          17.7 C EY030493
     K08Y02K  C2008 12 21.00807 07 42 48.20 +23 03 10.1          17.6 C EY030493
     K08Y02K  C2008 12 21.00932 07 42 48.33 +23 03 17.1          17.7 C EY030493
     K08Y02K  C2008 12 21.18914407 43 09.71 +23 19 54.6          17.9 R EY030648
     K08Y02K  C2008 12 21.19532407 43 10.40 +23 20 29.4          17.9 R EY030648
     K08Y02K  C2008 12 21.20201407 43 11.12 +23 21 06.9          18.2 R EY030648
     K08Y02K  C2008 12 21.22295 07 43 10.35 +23 23 01.6          17.9 V EY030J75
     K08Y02K  C2008 12 21.23619 07 43 11.77 +23 24 14.5          17.9 V EY030J75
     K08Y02K  C2008 12 21.24937 07 43 13.22 +23 25 28.0          17.9 V EY030J75
     K08Y02K  C2008 12 21.26603 07 43 17.85 +23 27 07.1          18.7 R EY030854
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     K08Y02K  C2008 12 21.26890 07 43 18.25 +23 27 23.6          18.7 R EY030854
     K08Y02K  C2008 12 21.27652 07 43 18.89 +23 28 05.8          18.2 R EY030H01
     K08Y02K  C2008 12 21.27855 07 43 19.10 +23 28 17.2          18.2 R EY030H01
     K08Y02K  C2008 12 21.28285 07 43 19.55 +23 28 41.4          18.1 R EY030H01
     K08Y02K  C2008 12 21.28610 07 43 19.89 +23 28 59.7          18.1 R EY030H01
     K08Y02K  C2008 12 21.28902 07 43 20.19 +23 29 16.1          18.1 R EY030H01
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     K08Y02K  C2008 12 21.34083 07 43 25.47 +23 34 09.4          18.3   EY030704
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     K08Y02K  C2008 12 21.92259 07 44 33.51 +24 29 08.1          17.6 R EY030587
     K08Y02K  C2008 12 21.94008 07 44 35.33 +24 30 49.5          17.7 R EY030473
     K08Y02K  C2008 12 21.94051 07 44 35.38 +24 30 52.0          17.7 R EY030473
     K08Y02K  C2008 12 21.97764 07 44 39.48 +24 34 26.9                 EY030204
     K08Y02K  C2008 12 21.98178 07 44 39.95 +24 34 50.8                 EY030204
     K08Y02K  C2008 12 21.98588 07 44 40.39 +24 35 14.7          17.4 R EY030204
     K08Y02K %C2008 12 22.34884 07 45 22.80 +25 10 33.5          17.5 R EY030H06
     K08Y02K %C2008 12 22.35534 07 45 23.47 +25 11 11.6          17.5 R EY030H06
     K08Y02K %C2008 12 22.35804 07 45 23.79 +25 11 27.7          17.8 R EY030H06
     K08Y02K  C2008 12 22.64103 07 45 58.24 +25 39 16.8                 EY030900
     K08Y02K  C2008 12 22.65039 07 45 59.12 +25 40 11.2                 EY030900
     K08Y02K  C2008 12 22.65597 07 45 59.77 +25 40 45.1                 EY030900
     K08Y02K  C2008 12 22.65978 07 46 00.14 +25 41 07.3          17.9 V EY030900

Observer details:
204 Schiaparelli Observatory.  Observer L. Buzzi.  0.60-m f/4.64 reflector
    + CCD.
235 CAST Observatory, Talmassons.  Observer R. Ligustri.  0.35-m f/5 reflector
    + CCD.
473 Remanzacco.  Observers L. Donato, M. Gonano, V. Gonano, E. Guido,
    V. Santini, G. Sostero.  0.45-m f/4.4 Newtonian reflector + CCD.
493 Calar Alto.  Observer F. Hormuth.  1.23-m reflector + CCD.
587 Sormano.  Observers F. Manca, A. Testa.  Measurer F. Manca.  0.5-m f/6.8
    reflector + CCD.
595 Farra d'Isonzo.  Observers L. Bittesini, E. Pettarin, F. Piani.  Measurer
    E. Pettarin.  0.30-m f/4.5 reflector + CCD.
648 Winer Observatory, Sonoita.  Observers M. Trueblood, R. Crawford.
    Measurer R. Crawford.  0.5-m f/4.5 Newtonian reflector + CCD.
704 Lincoln Laboratory ETS, New Mexico.  Observers M. Bezpalko, D. Torres,
    R. Kracke, G. Spitz, J. Kistler.  Measurers J. Stuart, S. Scruggs.  1.0-m
    f/2.15 reflector + CCD.
854 Sabino Canyon Observatory, Tucson.  Observer J. E. McGaha.  0.36-m f/10.0
    Schmidt-Cassegrain + CCD.
900 Moriyama.  Observer Y. Ikari.  0.26-m f/7.0 reflector + CCD.
A74 Bergen-Enkheim Observatory.  Observer U. Suessenberger.  0.4-m f/4
    Newtonian reflector.
H01 Magdalena Ridge Observatory, Socorro.  Observer W. H. Ryan.  2.4-m f/8.9
    reflector + CCD.
H06 RAS Observatory, Mayhill.  Observers E. Guido, G. Sostero, P. Camilleri.
    0.25-m f/3.4 reflector + CCD.
J75 OAM Observatory, La Sagra.  Observers S. Sanchez, J. Nomen, R. Stoss,
    W. K. Y. Yeung, J. Rodriguez, A. Cikota, S. Cikota.  0.45-m f/2.8
    reflector + CCD.

Orbital elements:
2008 YK2                                              Earth MOID = 0.2304 AU
Epoch 2008 Nov. 30.0 TT = JDT 2454800.5                MPC
M 339.16894              (2000.0)            P              Q
n   0.29579529     Peri.   47.62964     -0.71016582     -0.55513386
a   2.2308749      Node    93.92554     +0.44750315     -0.83073184
e   0.4988085      Incl.   25.72298     +0.54351213     -0.04136426
P   3.33           H   19.4           G   0.15           U   8
Residuals in seconds of arc
081220 704  0.4+  0.7-    081221 493  0.0   0.4-    081221 704  0.7-  1.3+
081220 704  0.3-  1.0+    081221 493  0.0   0.3-    081221 704  0.3+  2.7+
081220 704  0.5+  0.5-    081221 648  0.0   0.8+    081221 704  1.1-  0.0
081220 704  0.0   0.2-    081221 648  0.2+  0.7+    081221 587  0.2-  2.6-
081220 704  0.4+  0.0     081221 648  0.1+  0.5+    081221 587  0.2-  0.5+
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081220 235  0.2+  0.2-    081221 J75  0.3-  0.5-    081221 587  0.1-  0.2+
081220 235  0.1+  0.8-    081221 J75  0.2-  0.9-    081221 473  0.0   0.1-
081220 235  0.1+  0.4-    081221 J75  0.1+  0.4-    081221 473  0.0   0.0
081220 A74  0.1-  0.1-    081221 854  1.0-  0.1-    081221 204  0.4-  0.1-
081220 595  0.6-  0.4+    081221 854  0.0   0.3+    081221 204  0.1-  0.2-
081220 595  0.8+  0.0     081221 854  0.4+  0.2+    081221 204  0.1-  0.0
081220 A74  0.2-  0.1-    081221 H01  0.1-  0.1-    081222 H06  0.2+  0.5-
081220 595  0.3+  0.2-    081221 H01  0.1-  0.1-    081222 H06  0.1-  0.5-
081220 A74  0.2-  0.2+    081221 H01  0.1-  0.1-    081222 H06  0.4+  0.3-
081221 A74  0.5-  0.2-    081221 H01  0.1-  0.1-    081222 900  1.5+  1.1+
081221 A74  1.2+  0.6-    081221 H01  0.1-  0.2-    081222 900  0.4-  0.3-
081221 A74  0.6+  1.1+    081221 704  0.3-  0.3+    081222 900  0.2+  0.4+
081221 493  0.0   0.4-    081221 704  0.3-  0.5+    081222 900  0.4-  0.1-

Ephemeris:
2008 YK2                a,e,i = 2.23, 0.50, 26                q = 1.1181
Date     TT    R. A. (2000) Decl.     Delta      r     Elong.  Phase     V
2008 12 20    07 40.93   +21 32.4    0.291    1.254   155.0    19.4    18.2
2008 12 30    08 03.66   +39 26.6    0.243    1.208   155.5    19.7    17.7
2009 01 09    08 47.38   +60 22.3    0.235    1.171   138.9    33.5    18.0
2009 01 19    10 42.59   +75 43.3    0.263    1.142   121.0    47.6    18.6
2009 01 29    14 21.88   +78 49.4    0.311    1.124   108.8    56.0    19.2
2009 02 08    16 12.71   +75 05.2    0.364    1.118   101.6    59.8    19.6
2009 02 18    16 46.07   +71 30.1    0.415    1.123    97.9    60.6    19.9
2009 02 28    16 51.95   +68 49.6    0.460    1.140    96.8    59.6    20.1
2009 03 10    16 43.83   +66 40.1    0.498    1.168    97.5    57.5    20.3
2009 03 20    16 26.55   +64 33.7    0.529    1.205    99.8    54.5    20.4
2009 03 30    16 02.90   +62 01.9    0.556    1.250   103.3    51.1    20.5
2009 04 09    15 36.42   +58 36.6    0.580    1.301   107.7    47.2    20.6
2009 04 19    15 11.04   +54 01.6    0.606    1.357   112.5    43.1    20.6
2009 04 29    14 49.72   +48 15.7    0.639    1.418   117.1    39.2    20.7
2009 05 09    14 34.07   +41 35.0    0.684    1.480   120.7    35.9    20.9
2009 05 19    14 24.12   +34 27.8    0.743    1.545   122.7    33.5    21.1
2009 05 29    14 19.19   +27 22.0    0.820    1.611   122.6    32.0    21.4
2009 06 08    14 18.46   +20 39.5    0.915    1.677   120.6    31.4    21.7
2009 06 18    14 21.05   +14 32.8    1.027    1.743   117.2    31.2    22.0
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