- Preparation (Info)

MPEC 2026-U95 : 2026 QQ8: Temporarily Captured Object

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2026 QQ8: Temporarily Captured Object

Orbit integrations indicate that this object is temporarily bound to the Earth. The orbital solution includes solar radiation pressure; the fitted effective area-to-mass ratio is (7.94 +/- 3.41) x 10^-4 m^2/kg, with the quoted uncertainty at 1 sigma. No link to a known artificial object has been found. Further observations and dynamical studies are strongly encouraged.

Observations:

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     K26Q08Q*1C2026 08 19.92213821 38 37.92 +07 28 27.3          20.3 GVEU095K88
     K26Q08Q 1C2026 08 19.92435021 38 39.84 +07 29 34.5          20.4 GVEU095K88
     K26Q08Q 1C2026 08 19.92655521 38 41.76 +07 30 41.3          20.3 GVEU095K88
     K26Q08Q 1C2026 08 19.94606721 38 58.49 +07 40 28.1          20.3 GVEU095K88
     K26Q08Q 1C2026 08 19.94862021 39 00.68 +07 41 45.0          20.2 GVEU095K88
     K26Q08Q 1C2026 08 19.95133021 39 03.04 +07 43 06.3          20.6 GVEU095K88
     K26Q08Q KC2026 08 19.99598621 39 52.13 +08 06 47.0               XEU095L01
     K26Q08Q 1C2026 08 19.99801621 39 44.14 +08 06 11.1          19.6 GVEU095K88
     K26Q08Q KC2026 08 20.01777921 40 10.99 +08 17 28.2          19.6 GXEU095L01
     K26Q08Q KC2026 08 20.02005121 40 13.02 +08 18 34.8          19.7 GXEU095L01
     K26Q08Q 1C2026 08 20.02893321 40 13.12 +08 21 14.9          19.8 GVEU095K88
     K26Q08Q 1C2026 08 20.03098821 40 15.17 +08 22 14.5          20.0 GVEU095K88
     K26Q08Q 2C2026 08 20.32838021 48 38.873+10 58 06.69         20.4 GWEU095G37
     K26Q08Q 2C2026 08 20.33185521 48 41.365+10 59 47.90         20.1 GWEU095G37
     K26Q08Q 0C2026 08 20.94813122 06 36.588+15 59 01.82         20.0 GWEU095Z31
     K26Q08Q 0C2026 08 20.95068122 06 38.775+16 00 19.33         19.8 GWEU095Z31
     K26Q08Q 0C2026 08 20.95321122 06 40.910+16 01 36.09         20.3 GWEU095Z31
     K26Q08Q 0B2026 08 21.02223422 06 07.531+17 08 36.60         20.5 GWEU095M21
     K26Q08Q 0B2026 08 21.04038222 06 20.567+17 16 31.42               WEU095M21
     K26Q08Q 7C2026 08 21.08659522 08 16.166+17 05 42.66         20.3 GXEU095Z24
     K26Q08Q 7C2026 08 21.08913522 08 17.897+17 06 51.25         19.9 GXEU095Z24
     K26Q08Q 7C2026 08 21.09166822 08 19.648+17 07 59.70         20.5 GXEU095Z24
     K26Q08Q 0B2026 08 22.04774822 33 51.105+24 00 02.18               WEU095204
     K26Q08Q 0B2026 08 22.06220722 34 04.722+24 05 45.63         20.7 GWEU095204
     K26Q08Q 0B2026 08 22.07657622 34 18.604+24 11 21.35               WEU095204
     K26Q08Q 1C2026 08 22.97213023 00 00.03 +30 03 56.3          20.6 GVEU095K88
     K26Q08Q 1C2026 08 22.97482323 00 02.58 +30 04 55.9          20.7 GVEU095K88
     K26Q08Q 1C2026 08 22.97706923 00 04.71 +30 05 46.1          20.9 GVEU095K88
     K26Q08Q 0B2026 08 23.03250323 01 20.100+30 27 17.75         20.8 GWEU095204
     K26Q08Q 0B2026 08 23.05274923 01 39.287+30 34 23.59               WEU095204
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     K26Q08Q KC2026 08 23.09350123 02 01.339+30 52 08.40         20.21iZEU095M57
     K26Q08Q KC2026 08 23.10656123 02 14.398+30 56 08.95         20.49iZEU095M57
     K26Q08Q KC2026 08 23.11962823 02 27.974+31 00 03.71         20.78iZEU095M57
     K26Q08Q 2C2026 09 05.48749804 32 40.221+50 47 32.87         23.8 GXEU095G37
     K26Q08Q 2C2026 09 19.48569206 34 03.697+40 01 28.81         23.9 GXEU095G37
     K26Q08Q 0C2026 10 09.58933007 54 42.327+25 51 23.55         24.77GVEU095T12

Observer details:
204 Schiaparelli Observatory.  Observer L. Buzzi.  0.84-m f/3.5 Newtonian
    reflector + CMO.
G37 Lowell Discovery Telescope.  Observers N. Moskovitz, S. Hemmelgarn.
    Measurers N. Moskovitz, M. Micheli.  4.3-m f/6.2 Ritchey-Chretien + CCD,
    4.30-m f/6.1 reflector + CCD.
K88 GINOP-KHK, Piszkesteto.  Observer K. Sarneczky.  0.60-m Schmidt + CCD.
L01 Visnjan Observatory, Tican.  Observers I. Paleka, E. Pettarin.  Measurer
    I. Paleka.  1.0-m f/2.9 reflector + CCD.
M21 Schiaparelli Southern Observatory, Hakos.  Observers A. Aletti, F.
    Bellini, L. Buzzi, G. Galli.  Measurer L. Buzzi.  0.36-m f/8.6 Ritchey-
    Chretien + CMO.
M57 Wide-field Mufara Telescope, Isnello.  Observer A. Nastasi.  1.00-m f/2.1
    reflector + CCD.
T12 University of Hawaii 88-inch telescope, Maunakea.  Observer D. J. Tholen.
    2.24-m f/10.1 reflector + 2112 x 2112 pixels STA1600 10k CCD.
Z24 Tenerife Observatory-LCO B, Tenerife.  Observers T. Santana-Ros, F.
    Ocana, R. Kresken, M. Micheli, M. Devogele, L. Conversi.  Measurers F.
    Ocana, M. Micheli.  1.0-m reflector + CCD.
Z31 Tenerife Observatory-LCO A, Tenerife.  Observers T. Santana-Ros, M.
    Micheli, F. Ocana, R. Kresken, L. Conversi.  Measurer M. Micheli.  1.0-m
    reflector + CCD.

Orbital elements:
2026 QQ8                                              Earth MOID = 0.0038 AU
Epoch 2026 June 9.0 TT = JDT 2461200.5                Perez
M 158.82541             (2000.0)            P             Q
n   1.00258635     Peri.   52.28602     -0.12837302     -0.99170446
a   0.9886780      Node    45.09094     +0.90696492     -0.12006210
e   0.0261776      Incl.    0.52827     +0.40116705     -0.04590602
P   0.98           H   31.34          G   0.15           U   3
Residuals in seconds of arc
260819 K88 (0.7-  1.9-)   260820 G37  0.1-  0.0     260822 204  0.2-  0.2-
260819 K88 (0.4-  1.4-)   260820 G37  0.2-  0.1-    260822 K88 (0.9+  0.8+)
260819 K88  0.0   1.1-    260820 Z31  0.4-  0.3+    260822 K88  0.3+  0.1+
260819 K88  0.0   0.6-    260820 Z31  0.3-  0.2+    260822 K88  0.1-  0.1+
260819 K88  0.0   0.1-    260820 Z31  0.4-  0.1+    260823 204  0.2+  0.0
260819 K88  0.4+  0.2+    260821 M21  0.5-  0.2-    260823 204  0.0   0.1-
260819 L01  0.5+  0.7+    260821 M21  0.4-  0.7-    260823 M57  0.5-  0.0
260819 K88  0.5+  0.6+    260821 Z24  0.1-  0.2+    260823 M57  0.1-  0.2+
260820 L01  0.6+  0.1+    260821 Z24  0.3-  0.1-    260823 M57  0.3-  0.1-
260820 L01  0.9+  0.1+    260821 Z24  0.4-  0.1-    260905 G37  0.3-  0.2-
260820 K88  0.1-  0.4+    260822 204  0.1-  0.3-    260919 G37  0.0   0.2-
260820 K88  0.6+  0.3+    260822 204  0.0   0.3-    261009 T12  0.0   0.0

Ephemeris:
2026 QQ8                a,e,i = 0.99, 0.03, 1                 q = 0.9628
Date    TT    R. A. (2000) Decl.     Delta      r    Elong.  Phase     V
2026 09 29    07 15 47.8 +33 06 34   0.01177 0.9998    79.6    99.7    25.3
...
2026 10 14    08 08 18.0 +22 52 11   0.01285 0.9957    81.0    98.3    25.4
...
2026 10 22    08 32 27.3 +17 24 05   0.01294 0.9937    82.1    97.1    25.4
...
2026 10 28    08 51 10.1 +13 04 49   0.01285 0.9922    82.7    96.6    25.3
2026 10 29    08 54 26.4 +12 19 42   0.01282 0.9919    82.7    96.6    25.3
2026 10 30    08 57 45.6 +11 33 55   0.01279 0.9916    82.7    96.6    25.3
...
2026 11 05    09 18 36.9 +06 44 12   0.01245 0.9901    82.4    96.9    25.3
...
2026 11 13    09 48 52.1 -00 25 40   0.01174 0.9880    80.9    98.4    25.2
...
2026 11 28    11 05 49.6 -16 51 45   0.01012 0.9836    72.2   107.2    25.3

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