

**Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION**

Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
CBAT@CFA.HARVARD.EDU (science)
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Phone 617-495-7440/7244/7444 (for emergency use only)

COMET P/2006 U3 (NEAT)

R. Stoss, Astronomisches Rechen-Institut, Heidelberg, and Observatorio Astronomico de Mallorca, reports the recovery by J. L. Ortiz and A. Mora of P/2001 K1 (NEAT) on CCD images obtained with the 2.5-m Isaac Newton Telescope at La Palma, the object appearing asteroidal on 300-s *R*-band frames. The astrometric observations provided below were measured by Stoss. The indicated correction to the prediction on *MPC* 54169 is $\Delta T = -0.4$ day. The recovery positions appear to confirm the proposed identification of this comet with an object found by Stoss on Palomar Sky Survey plates from 1955; the 1955 astrometry falls within 15" of the position predicted from an orbit linking the 2001 and 2006 observations.

| Date | UT | α_{2000} | δ_{2000} | Mag. |
|-----------|----------|---|-----------------|------|
| 1955 May | 14.22084 | 14 ^h 18 ^m 41. ^s 81 | + 6°22'39.7" | |
| | 14.22778 | 14 18 41.50 | + 6 22 38.0 | |
| | 14.26250 | 14 18 40.12 | + 6 22 27.3 | |
| 2006 Oct. | 23.13259 | 4 53 18.59 | +14 46 16.3 | 22.4 |
| | 23.13672 | 4 53 18.52 | +14 46 16.2 | 22.2 |
| | 24.03318 | 4 52 59.72 | +14 46 22.4 | 22.5 |
| | 24.03727 | 4 52 59.64 | +14 46 22.5 | 22.2 |

Orbital elements by B. G. Marsden, linking 1955 to 2006:

Epoch = 1954 Dec. 4.0 TT

$$\begin{aligned} T &= 1954 \text{ Dec. } 22.7570 \text{ TT} & \omega &= 93^\circ 0505 \\ e &= 0.345814 & \Omega &= 86.3172 \\ q &= 2.564300 \text{ AU} & i &= 16.6409 \\ a &= 3.919835 \text{ AU} & n^\circ &= 0.1269996 & P &= 7.761 \text{ years} \end{aligned}$$

Epoch = 2000 Oct. 23.0 TT

$$\begin{aligned} T &= 2000 \text{ Nov. } 6.8998 \text{ TT} & \omega &= 94^\circ 6503 \\ e &= 0.357232 & \Omega &= 84.8386 \\ q &= 2.470580 \text{ AU} & i &= 16.9125 \\ a &= 3.843656 \text{ AU} & n^\circ &= 0.1307938 & P &= 7.536 \text{ years} \end{aligned}$$

Epoch = 2008 May 14.0 TT

$$\begin{aligned} T &= 2008 \text{ May } 26.7064 \text{ TT} & \omega &= 94.9130 \\ e &= 0.357635 & \Omega &= 84.7534 \\ q &= 2.468702 \text{ AU} & i &= 16.9133 \\ a &= 3.843143 \text{ AU} & n^\circ &= 0.1308200 & P &= 7.534 \text{ years} \end{aligned}$$