

**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)
URL <http://www.cfa.harvard.edu/iau/cbat.html> ISSN 0081-0304
Phone 617-495-7440/7244/7444 (for emergency use only)

COMET P/2009 Q2 (LINEAR-NEAT)

J. V. Scotti, Lunar and Planetary Laboratory, reports his recovery of comet P/2003 XD₁₀ (cf. *IAUC* 8257) showing stellar appearance on Spacewatch images obtained with the 1.8-m *f*/2.7 reflector at Kitt Peak (first observation tabulated below).

2009	UT	α_{2000}	δ_{2000}	Mag.	Observer
Aug. 27.39043		1 ^h 18 ^m 00 ^s .41	−7°20′05″.0	21.5	Scotti

The indicated correction to the prediction on *MPC* 59598 is $\Delta T = -0.10$ day. Additional astrometry by Scotti for Aug. 27, 28, and 29 — together with orbital elements for epoch 2003 (and those below), residuals, and an ephemeris — appear on *MPEC* 2009-Q68.

Epoch = 2010 Feb. 13.0 TT

$T = 2010 \text{ Jan. } 31.8363 \text{ TT}$	$\omega = 16^\circ.0938$	}	2000.0
$e = 0.416377$	$\Omega = 40.5285$		
$q = 1.989593 \text{ AU}$	$i = 13.4361$		
$a = 3.409038 \text{ AU}$	$n^\circ = 0.1565872$		
		$P = 6.29 \text{ years}$	

COMET C/2009 Q3 (LINEAR)

J. V. Scotti, Lunar and Planetary Laboratory, reports his recovery of comet P/2002 T1 (cf. *IAUC* 7983) showing a “soft” appearance (no obvious coma or tail) on Spacewatch images obtained with the 1.8-m *f*/2.7 reflector at Kitt Peak (first observation tabulated below).

2009	UT	α_{2000}	δ_{2000}	Mag.	Observer
Aug. 28.49035		4 ^h 31 ^m 39 ^s .80	+25°09′34″.5	21.1	Scotti

The indicated correction to the prediction on *MPC* 56804 is $\Delta T = +0.04$ day. Additional astrometry by Scotti for Aug. 28 and 29 — together with orbital elements for epoch 2002 (and those below), residuals, and an ephemeris — appear on *MPEC* 2009-Q69.

Epoch = 2009 Sept. 6.0 TT

$T = 2009 \text{ Aug. } 25.5302 \text{ TT}$	$\omega = 3^\circ.8270$	}	2000.0
$e = 0.639260$	$\Omega = 14.2249$		
$q = 1.314740 \text{ AU}$	$i = 21.3965$		
$a = 3.644561 \text{ AU}$	$n^\circ = 0.1416564$		
		$P = 6.96 \text{ years}$	