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## Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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## COMET P/2005 U1 (READ)

M. T. Read reports the discovery of a diffuse comet with a tail ~ 20" long toward the southwest on CCD mosaic images taken with the Spacewatch 0.9-m f/3 reflector on Oct. 24.3 UT (discovery observation tabulated below). The cometary appearance has been confirmed on Spacewatch images taken with the 1.8-m f/2.7 reflector by T. H. Bressi on Oct. 25.35–25.36 (20" tail extending westward), by T. Gehrels on Oct. 26.30–26.31 (6" coma and tail at least 10" long in p.a. 260°) and 27.28–27.29 (small, elongated coma and tail > long in p.a. 260°), and by J. V. Scotti on Oct. 28.4 (slightly diffuse, with 0'.37 tail in p.a. 249°). E. J. Christensen reports that images taken with the Mt. Lemmon 1.5-m reflector on Oct. 28.3 show a 6" coma and a 10" tail in p.a. 240°–250°.

2005 UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.
Oct. 24.32776	$3^{h}21^{m}11.94$	$+18^{\circ}09^{'}17\overset{''}{.8}$	20.2

The available astrometry (including prediscovery Catalina observations on Oct. 23), the following preliminary orbital elements, and an ephemeris appear on *MPEC* 2005-U74.

T = 2005 July 7.1	$46 \text{ TT} \qquad \omega =$	316.571
e = 0.31063	$\Omega =$	$\left. \begin{array}{c} 316.571 \\ 51.812 \end{array} \right\} 2000.0$
q = 2.25603  AU	i =	1.188 J
a = 3.27260  AU	$n^{\rm o} = 0.166481$	P = 5.92 years

## COMET C/2004 U1 (LINEAR)

J. Young, Table Mountain Observatory, reports the discovery of a very faint second component (of total mag  $\sim 20.0$ ), moving at the same rate as the primary component of C/2004 U1 (total mag  $\sim 18.5$ ), on stacked CCD images taken by D. Mayes with the 0.6-m f/16 Cassegrain reflector on Oct. 20.3 and 21.3 UT. The companion appears to be a well-defined spot along what may be a faint tail of the primary. The astrometry has been published on MPEC 2005-U66.

## COMET C/2005 T4 (SWAN)

Magnitude estimates and coma diameters from sets of three co-added 3-min exposures by T. Lovejoy (Thornlands, Qld., 100-mm f/2.8 telephoto lens): Oct. 9.378 UT, 10.5, 2'-3'; 18.372, 12, -.

2005 October 28

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