Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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COMET C/2009 W2 (BOATTINI)

A. Boattini reports his discovery of a comet (discovery observation tabulated below) on CCD images taken with the 0.68-m Schmidt telescope in the course of the Catalina Sky Survey; he notes a moderately condensed coma $\sim 7''$ wide, with no tail visible. R. E. Hill reports that four co-added 60-s CCD images taken in 2'' seeing with the Mt. Lemmon 1.5-m reflector on Nov. 23.5 UT show a bright nuclear condensation with a small (1''-2'') coma and a short, broad tail 6''-7'' long in p.a. $\sim 80^{\rm o}$; his similar exposures on Nov. 24.44–24.46 show a 4'' \times 5'' nuclear condensation that is elongated east-west with a 1'' coma surrounding, and a broad, diffuse 30'' tail in p.a. 90°. After posting on the Minor Planet Center's 'NEOCP' webpage, W. H. Ryan writes that CCD images taken by E. V. Ryan and himself with the Magdalena Ridge Observatory 2.4-m f/8.9 reflector on Nov. 24.5 show a tail in p.a. $\sim 90^{\rm o}$.

2009 UT α_{2000} δ_{2000} Mag. Observer Nov. 23.47597 $6^{\text{h}}21^{\text{m}}30^{\text{s}}50$ $+39^{\circ}58^{\prime}41^{\prime\prime}9$ 19.5 Boattini

The available astrometry (including observations by Boattini on Nov. 21), the following preliminary parabolic orbital elements, and an ephemeris appear on *MPEC* 2009-W103.

 $T = 2010 \text{ Mar. } 23.937 \text{ TT} \qquad \qquad \omega = 118.066 \\ \Omega = 199.323 \\ i = 164.512 \\ \end{pmatrix} 2000.0$

COMET 169P/NEAT

B. G. Marsden, Smithsonian Astrophysical Observatory, has identified a comet found in STEREO spacecraft images with comet 169P. K. Battams, Naval Research Laboratory, reports that the comet appears very clearly (marginally diffuse with no tail) at apparent mag ~ 9 –10 on Nov. 12.9 UT in HI-1B images (limiting mag ~ 13.5), when it was only $\sim 4^{\circ}$.5 from the sun (r=0.69 AU, $\Delta=0.88$ AU, and 0.38 AU from STEREO), so that forward scattering is a likely explanation for 169P's being well above its observed brightness from ground-based observations (cf. MPEC 2009-W102). Over the next few days, 169P moved to increasing elongations, with its brightness falling gradually; by Nov. 21 (elongation 18°), STEREO images show the comet to be noticeably smaller and fainter (mag perhaps 11–12).