Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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COMET C/2010 A4 (SIDING SPRING)

On Jan. 12, G. J. Garradd reported his discovery of an apparently asteroidal object on CCD images taken with the 0.5-m Uppsala Schmidt telescope (discovery observation tabulated below); after posting on the Minor Planet Center's 'NEOCP' webpage, Garradd later reported the object being elongated $\sim 10''$ in p.a. $150^{\rm o}$ but with no clear tail in four 60-s stacked exposures. Other CCD astrometrists have also commented on the object's cometary appearance, including W. H. Ryan (Magdalena Ridge Observatory, 2.4-m f/8.9 reflector, Jan. 13.35–13.38 UT), who noted a tail in p.a. $\sim 325^{\rm o}$ in R-band images. E. Guido, Castellammare di Stabia, Italy, reports that twenty co-added 120-s unfiltered exposures taken by G. Sostero and himself remotely with a 0.25-m f/3.4 reflector located near Mayhill, NM, U.S.A., on Jan. 13.4 show a diffuse coma nearly 8'' in diameter with a very weak central condensation. S. Foglia writes that thirty stacked 60-s images taken by R. Holmes (Ashmore, IL, U.S.A., 0.61-m reflector, Jan. 13.5) show the object to be diffuse.

2010 UT
$$\alpha_{2000}$$
 δ_{2000} Mag. Observer Jan. 12.72144 $11^{\text{h}}02^{\text{m}}04^{\text{s}}.71$ $-27^{\circ}10^{'}15^{''}.5$ 18.7 Garradd

Further astrometry, the following preliminary parabolic orbital elements, and an ephemeris are given on MPEC~2010-A76.

COMET P/2010 A1 (HILL)

Additional astrometry has show this comet (cf. IAUC 9104) to be of short period; elements from MPEC 2010-A50: