## Central Bureau for Astronomical Telegrams INTERNATIONAL ASTRONOMICAL UNION

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## COMET C/2009 K4 (GIBBS)

A. R. Gibbs reports his discovery of a comet on unfiltered CCD images obtained at low altitude in astronomical twilight with the Catalina 0.68-m Schmidt telescope (discovery observation tabulated below); four co-added 15-s exposures show a  $5'' \times 9''$  coma, elongated in the direction of motion, with a "fuzzy halo" 11'' across. Four co-added 30-s follow-up images obtained by R. E. Hill on May 28.2 UT with the 1.5-m reflector at Mt. Lemmon show a coma 20''-24'' in diameter with no obvious tail. After posting on the Minor Planet Center's 'NEOCP' webpage, other CCD astrometrists have also commented on the object's cometary appearance. J. Young (Table Mountain 0.61-m reflector, May 27.2 and 28.2, low altitude; nearby faint galaxies were problematical) reports a very diffuse coma of diameter 12" with little central condensation and no tail. M. Pietschnig (Alter Satzberg, Vienna, Austria, 0.35-m reflector, May 27.84–27.86) measures a 15" coma. M. Jäger (Stixendorf, Austria, 0.20-m reflector, May 27.9) reports a coma of diameter 1'-1'.5 of total mag  $\sim 16$  with a nuclear condensation of mag  $\sim$  17.5. E. Guido and G. Sostero, Castellammare di Stabia, Italy, report that twenty-one co-added 120-s unfiltered images obtained remotely on May 28.2 with a 0.25-m reflector near Mayhill, NM, U.S.A., show a sharp central condensation  $\sim 6''$  in diameter surrounded by an extremely faint outer coma nearly 40" in diameter. C. Hergenrother, Lunar and Planetary Laboratory, reports that a co-added 11-min R-band exposure with the Kuiper 1.54-m reflector shows a circular coma 17" in diameter.

2009 UT 
$$\alpha_{2000}$$
  $\delta_{2000}$  Mag. Observer May 27.14873  $7^{\text{h}}57^{\text{m}}43^{\text{s}}.63$   $+46^{\circ}02^{'}11^{''}.6$  17.0 Gibbs

The available astrometry, the following preliminary parabolic orbital elements, and an ephemeris appear on MPEC~2009-K63.

## V5581 SAGITTARII = NOVA SAGITTARII 2009 No. 1

N. Samus reports that the GCVS team has assigned the designation V5581 Sgr to the nova announced on IAUC 9041.