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COMET P/2006 HR_{30} (SIDING SPRING)

Reports from two groups of observers indicate that 2006 HR_{30}, reported as asteroidal when discovered by the Siding Spring Survey (discovery observation tabulated below; cf. *MPEC* 2006-H40), appears cometary. A co-addition of three 10-s V-band exposures, obtained on July 29.3 UT by S. C. Lowry and A. Fitzsimmons (Department of Physics and Astronomy, Queen's University, Belfast) with the 3.5-m New Technology Telescope at the European Southern Observatory (ESO), La Silla, show a coma extending to $5''.5$ in p.a. 31°. Observations by M. Hicks and K. Lawrence (Jet Propulsion Laboratory) on Aug. 3 with the Palomar 5-m Hale telescope show a faint coma extending $\approx 10''$ from the 'nucleus' in both the R-band and long-slit spectral images.

2006 UT	α_{2000}	δ_{2000}	Mag.
Apr. 20.78181	$22^h04^m31^s.90$	$-9°04'14''.9$	18.7

Additional astrometry, the following orbital elements (from observations in 2005 and 2006), and an ephemeris appear on *MPEC* 2006-P09. There is also an unconfirmed observation of this object on a 2-hr ESO exposure from 1986 Mar. 5, measured by G. Forti (Arcetri Observatory, Florence) and published on *MPS* 174727.

$$\text{Epoch} = \text{2007 Jan. 20.0 TT}$$

$$\begin{array}{llll} T = \text{2007 Jan. 2.2815 TT} & \omega = 117°.4137 & \\ e = 0.843142 & \Omega = 309.9512 & \Big\} 2000.0 \\ q = 1.226435 \text{ AU} & i = 31.8845 & \end{array}$$

$$a = 7.818745 \text{ AU} \qquad n° = 0.0450815 \qquad P = 21.86 \text{ years}$$

COMETS C/1999 V5 AND C/1999 X3 (SOHO)

Further to *IAUC* 8734, given below are the discovery data for additional small, stellar-appearing comets found on archival SOHO images. C/1995 V5, a Kreutz sungrazer, was of mag ~ 7.5 or fainter. C/1999 X3, not a member of any known comet group (T = 1999 Dec. 12.7 TT, q = 0.081, $e = 1.0$, $i = 7°.2$), was too faint for photometry.

Comet	1999 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/1999 V5	Nov. 14.379	$15^h13^m.6$	$-19°34'$	C2	HS	2006-O20
C/1999 X3	Dec. 12.564	17 22.9	−23 22	C2	HS	2006-L20

2006 August 3 *Daniel W. E. Green*