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COMET P/2006 K2 (McNAUGHT)

R. H. McNaught reports his discovery of another comet with a 20" coma on Uppsala Schmidt images taken in poor seeing (discovery observation tabulated below). Better images obtained by McNaught in good seeing on May 23.6 UT show a strong central condensation and a weak coma with a diameter of 20", extended slightly in p.a. 300°. Following posting on the 'NEO Confirmation Page', R. Trentman and R. Fredrick (Louisburg, KS, 0.75-m reflector) report that their CCD images obtained on May 23.2–23.3 show a diffuse coma several arcsec in diameter.

2006	UT	α_{2000}	δ_{2000}	Mag.
May 22	2.64208	$15^{h}33^{m}16.38$	$-28^{\circ}22^{'}37^{''}_{4}$	17.7

The available astrometry, the following preliminary orbital elements, and an ephemeris appear on *MPEC* 2006-K32.

T = 2006 Aug. 3.	842 TT ω	=	256.183 ·)
e = 0.49732	Ω	=	13.158	2000.0
q = 2.02900 AU	i	=	6.468 ·	J
a = 4.03634 AU	$n^{\rm o} = 0.121541$	L	P = 8.	11 years

COMETS C/2006 F5-F8 AND C/2006 G2 (SOHO)

Additional comets have been found on SOHO website images (cf. *IAUC* 8713; MA = M. Mazzucato), all Kreutz sungrazers except C/2006 F6 (Meyer group). C/2005 F5 was described by K. Battams as small, slightly diffuse, and too faint for photometry. C/2006 F6 was condensed and quite elongated, reaching mag 7.6 on Mar. 22.993 UT at $7.1R_{\odot}$. C/2006 F7 and C/2006 G2 were extremely faint and diffuse. C/2006 F8 reached mag 4.7 in C3 images on Mar. 30.571 at $12.0R_{\odot}$; in C2 images it showed a very faint, thin tail that reached a length of 21' on Mar. 30.922 at $5.1R_{\odot}$, with a possible secondary component ('lump' on the side of the head).

Comet	2006 UT	α_{2000}	δ_{2000}	Inst.	F	MPEC
$C/2006 \ F5$	Mar. 21.321	$0^{h}18.4$	-0°33'	C3	MA	2006-K10
C/2006 F6	22.963	$0\ 12.2$	+ 237	C2	TH	2006-K10
C/2006 F7	28.326	0.36.1	+ 234	C2	RM	2006-K10
C/2006 F8	29.654	1 00.3	+ 158	C3/2	HS	2006-K10
C/2006 G2	Apr. 11.246	$1\ 27.0$	+ 7 33	C2	TH	2006-K29

2006 May 23

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