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COMETS C/2006 O3–O8, C/2006 P2–P7 (SOHO)

Additional Kreutz sungrazing comets have been found on SOHO website images (cf. *IAUC* 8739; AK = A. Kubczak, SY = S. Yuan). C/2006 O3–O6 were all very small and stellar in appearance, with no tails; C/2006 O3 peaked at mag ~ 6.5–7, C/2006 O4 and O5 peaked at mag ~ 7, and C/2006 O6 peaked at mag ~ 5.5–6. C/2006 O7 peaked at mag ~ 3.5–4 with a stubby tail in C3 images; in C2 images, it showed a a diffuse head and a very thin tail that peaked in length at ~ 29′. C/2006 O8 showed a hint of elongation and peaked at mag ~ 5.5. C/2006 P2 was tiny, faint, and stellar in appearance, peaking at mag ~ 7–7.5. C/2006 P3 appeared stellar with a hint of elongation, peaking at mag ≈ 6–6.5. C/2006 P4 was teardrop-shaped in C3 images, peaking at mag ~ 5.5; in C2 images, it was very faint and diffuse with a very slight elongation but no tail. C/2006 P5, C/2006 P6, and C/2006 P7 were all was quite faint, tiny, and stellar in appearance, with C/2006 P7 reaching mag ~ 7.5.

Comet	2006	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2006 O3	July	17.113	$7^h31^m.2$	$+19^\circ28'$	C3	TH	2006-P28
C/2006 O4		20.179	7 41.9	+18 25	C3	HS	2006-P28
C/2006 O5		21.488	7 47.8	+17 47	C3	HS	2006-P28
C/2006 O6		23.571	7 51.7	+17 20	C3	HS	2006-P28
C/2006 O7		25.679	7 55.2	+16 13	C3/2	HS	2006-P32
C/2006 O8		26.488	8 02.6	+17 07	C3	HS	2006-P32
C/2006 P2	Aug.	1.696	8 30.7	+16 35	C3	AK	2006-P32
C/2006 P3		2.138	8 27.9	+15 40	C3	AK	2006-P32
C/2006 P4		2.431	8 24.8	+15 13	C3/2	SY	2006-P33
C/2006 P5		3.179	8 36.5	+16 05	C3	HS	2006-P33
C/2006 P6		3.363	8 35.5	+15 58	C3	HS	2006-P33
C/2006 P7		4.196	8 39.5	+15 51	C3	AK	2006-P33

COMET C/2006 M1 (LINEAR)

Improved orbital elements from *MPEC* 2006-P16:

$$\text{Epoch} = 2007\ \text{Mar. } 1.0\ \text{TT}$$

$$\begin{array}{lll} T = 2007\ \text{Feb. } 13.9184\ \text{TT} & \omega = 122^\circ.8921 & \\ e = 0.976913 & \Omega = 231.6153 & \left.\right\} 2000.0 \\ q = 3.556288\ \text{AU} & i = 54.8770 & \end{array}$$

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