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COMETS C/2007 X5–X15 (SOHO)

Further to *IAUC* 8919, additional near-sun comets have been found on SOHO website images; all were Kreutz sungrazers except for Meyer-group objects C/2007 X7 and C/2007 X14, which were both very small and stellar in appearance (mag ~ 7). C/2007 X5 was stellar in appearance and small (mag ~ 6.5) in C3 images, and slightly diffuse with no tail in C2 images. K. Battams describes C/2007 X6 as extremely faint (mag ~ 8.5), diffuse, and small. C/2007 X8, C/2007 X9 (which was also found by T. Hoffman), and C/2007 X12 were tiny and stellar in appearance in C3 images (reaching mag ~ 7, except C/2007 X12, which reached mag ~ 7.5); in C2 images, they appeared diffuse, with C/2007 X8 appearing a little elongated and the other two objects showing no tail. C/2007 X10 was teardrop-shaped and very bright (mag ~ 3) in C3 images, and showed a broad head and a thin tail in C2 images. C/2007 X11, which was also found by H. Su, was very diffuse and faint (mag ~ 8). C/2007 X13 was very diffuse, elongated, and reached mag ~ 7.5. C/2007 X15 was small and diffuse (mag ~ 7.5). New finder codes: MK = M. Kusiak; PC = P. Collison.

Comet	2007	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2007 X5	Dec.	7.679	$16^h53^m.4$	$-26^\circ46'$	C3/2	HS	2008-B36
C/2007 X6		10.314	17 09.1	−24 44	C2	MK	2008-B45
C/2007 X7		10.381	17 06.0	−21 50	C2	HS	2008-B45
C/2007 X8		10.638	17 10.0	−25 31	C3/2	TH	2008-B45
C/2007 X9		12.179	17 17.2	−25 26	C3/2	RM	2008-B45
C/2007 X10		12.488	17 13.5	−29 42	C3/2	TH	2008-B46
C/2007 X11		12.564	17 19.5	−24 55	C2	RK	2008-B46
C/2007 X12		13.738	17 24.5	−25 26	C3/2	RM	2008-B46
C/2007 X13		14.088	17 26.2	−25 04	C2	PC	2008-B46
C/2007 X14		14.163	17 22.9	−22 10	C2	TH	2008-B48
C/2007 X15		15.479	17 34.8	−25 02	C2	HS	2008-B48

COMET 17P/HOLMES

Visual total-magnitude and coma-diameter estimates by A. Pereira, Cabo da Roca, Portugal (5×22 monocular): 2007 Dec. 26.81 UT, 3.5, ~ 68′; 29.88, 3.6, > 65′; 2008 Jan. 1.08, 3.6, ~ 60′; 4.03, 3.5, ~ 78′; 12.03, 3.8, > 65′; 26.81, 3.8, ~ 80′; 28.92, 4.0, ~ 84′; 31.95, 4.1, > 70′; Feb. 2.84, 4.3, ~ 70′; 4.87, 4.5, ~ 80′; 7.97, 4.6, ~ 85′; 10.02, 4.6, ~ 90′.

2008 February 11 *Daniel W. E. Green*