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COMETS C/2009 L3–L17, C/2009 M1, AND C/2009 M2 (SOHO)

Further to *IAUC* 9059, additional presumed comets have been found on SOHO website images, all being Kreutz sungrazers except for C/2009 L8 and C/2009 L13 (Kracht group). C/2009 L3 was very diffuse and slightly elongated (mag ~ 7.5). C/2009 L4 was stellar in appearance (mag ~ 6.5) in C3 images but quite large and very condensed with no visible tail in C2 images; COR2-A STEREO images show a bright starlike head and a very faint, thin tail. C/2009 L5, C/2009 L7, C/2009 L11 (also described as small), and C/2009 L15 were slightly diffuse (peak magnitudes ~ 7.5, 7.5–8, 8, and 8, respectively). C/2009 L6 was stellar in appearance (mag ~ 6.5–7) in C3 images, and condensed with no tail in C2 images. C/2009 L8 (mag ~ 7–7.5) and C/2009 L13 (mag ~ 7.5–8) were small and stellar in appearance. C/2009 L9 and C/2009 L12 were very diffuse (mag ~ 8). C/2009 L10 (slightly diffuse), C/2009 L14 (quite diffuse), and C/2009 M1 (quite diffuse) were very faint (mag ~ 8.5). C/2009 L16 was quite diffuse (mag ~ 7.5). C/2009 L17 was stellar in appearance (mag ~ 6.5) in C3 images, but quite diffuse with a short, faint tail in C2 images. C/2009 M2 was small and stellar in appearance (mag ~ 7) in C3 images, and showed a hint of a very faint tail in C2 images.

Comet	2009	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2009 L3	June	3.785	$4^h45^m.2$	$+20^\circ33'$	C2	RK	2009-O19
C/2009 L4		3.888	4 48.7	+18 35	C3/2*	BZ	2009-O19
C/2009 L5		4.893	4 49.3	+20 39	C2	RK	2009-O19
C/2009 L6		5.988	4 55.2	+19 25	C3/2	BZ	2009-O19
C/2009 L7		1.381	4 35.2	+20 12	C2	BZ	2009-O21
C/2009 L8		6.979	4 51.8	+22 41	C2	TH	2009-O21
C/2009 L9		7.229	4 56.6	+20 51	C2	GS	2009-O21
C/2009 L10		7.329	4 58.4	+20 57	C2	BZ	2009-O21
C/2009 L11		7.671	5 00.3	+20 56	C2	MK	2009-O21
C/2009 L12		8.893	5 02.7	+20 54	C2	MU	2009-O22
C/2009 L13		9.185	5 12.1	+23 26	C2	RK	2009-O22
C/2009 L14		10.185	5 09.8	+21 09	C2	BZ	2009-O22
C/2009 L15		10.910	5 12.2	+21 11	C2	RM	2009-O22
C/2009 L16		14.393	5 25.8	+21 22	C2	MK	2009-P01
C/2009 L17		15.013	5 25.0	+20 18	C3/2	MU	2009-P01
C/2009 M1		21.838	5 55.1	+21 42	C2	BZ	2009-P01
C/2009 M2		22.238	5 56.5	+20 42	C3/2	MK	2009-P01

2009 August 22 *Daniel W. E. Green*