Circular No. 8844

Central Bureau for Astronomical Telegrams
INTERNATIONAL ASTRONOMICAL UNION
Mailstop 18, Smithsonian Astrophysical Observatory, Cambridge, MA 02138, U.S.A.
IAUSUBS@CFA.HARVARD.EDU or FAX 617-495-7231 (subscriptions)
CBAT@CFA.HARVARD.EDU (science)
URL `http://www.cfa.harvard.edu/iau/cbat.html` ISSN 0081-0304
Phone 617-495-7440/7244/7444 (for emergency use only)

COMETS C/2007 A4–A7, C/2007 B4–B6, C/2007 C3–C13 (SOHO)

The "discovery" data for additional near-sun comets found on SOHO website images are tabulated below (cf. *IAUC* 8819) — all being Kreutz sungrazers except C/2007 A6 and C/2007 C10 (Meyer group) and C/2007 A7, C/2007 C7, and C/2007 C12 (no known group). C/2007 A4 and C/2007 A5 were small and stellar in appearance in C3-coronagraph images; in C2 images, C/2007 A4 was tailless and slightly diffuse. C/2007 A6 and C/2007 C10 were small and stellar in appearance, of mag $\sim$ 7. C/2007 A7 was stellar in appearance, peaking at mag $\sim$ 6 but dying out rapidly. C/2007 B6 was brighter (mag $\sim$ 5) with a hint of a tail. C/2007 C3 reached mag $\sim$ 4 and showed a very short, faint tail. C/2007 C6 reached mag $\sim$ 3; it showed a very faint, thin tail $\sim 0^{\circ}.5$ long in C2 images. C/2007 C7 peaked at mag 7.5 and faded gradually, being tiny and stellar in appearance. C/2007 C11 was stellar in appearance, reaching mag $\sim$ 6. C/2007 C12 was stellar in appearance with a hint of a tail; it brightened (reaching mag $\sim$ 7) then died rapidly. C/2007 C13 was brighter (peaking at mag $\sim$ 3.5), showing a short, "headless" tail $\sim 20'$ long in C2 images. The remaining six objects appeared stellar and very faint with no tail. 'MU' = M. Uchina.

Comet	2007	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2007 A4	Jan.	4.763	$19^{h}10^{m}.9$	$-25^{\circ}19'$	C3/2	HS	2007-K46
C/2007 A5		9.446	19 31.7	−23 59	C3	HS	2007-K46
C/2007 A6		10.938	19 33.3	−21 21	C2	TH	2007-K53
C/2007 A7		10.314	19 31.0	−23 01	C2	LC	2007-K65
C/2007 B4		18.096	20 13.3	−22 58	C3	HS	2007-K53
C/2007 B5		19.179	20 21.6	−23 05	C3	WX	2007-K53
C/2007 B6		31.113	21 20.2	−20 19	C3/2	HS	2007-K53
C/2007 C3	Feb.	1.138	21 23.8	−20 07	C3/2	MU	2007-K54
C/2007 C4		2.971	21 21.7	−18 14	C3	HS	2007-K54
C/2007 C5		3.679	21 22.5	−17 49	C3	HS	2007-K54
C/2007 C6		5.846	21 44.0	−19 07	C3/2	BZ	2007-K54
C/2007 C7		2.663	21 01.9	−18 33	C2	HS	2007-K65
C/2007 C8		5.821	21 32.4	−17 16	C3	BZ	2007-K65
C/2007 C9		6.779	21 35.0	−16 47	C3	RM	2007-K65
C/2007 C10		7.163	21 26.2	−14 03	C2	HS	2007-K65
C/2007 C11		7.738	21 47.9	−17 17	C3	HS	2007-K66
C/2007 C12		8.404	21 43.2	−17 46	C3	HS	2007-K66
C/2007 C13		14.654	22 22.9	−15 10	C3/2	HS	2007-K66

2007 June 10 *Daniel W. E. Green*