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COMETS C/2004 V6–V12 (SOHO)

Additional SOHO comets (continuation to *IAUC* 8451):

Comet	2004	UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2004 V6	Nov.	4.113	$14^h29^m.5$	$-17^\circ16'$	C2	TH	2004-X72
C/2004 V7		4.146	14 33.8	−16 43	C3/2	TH	2004-X72
C/2004 V8		7.696	14 39.3	−19 12	C3/2	KB	2004-X72
C/2004 V9		7.754	14 55.8	−18 32	C2/3	HO	2004-X73
C/2004 V10		8.129	14 49.7	−16 43	C2	KB	2004-X73
C/2004 V11		8.746	14 53.3	−18 12	C2	TH	2004-X74
C/2004 V12		10.029	14 40.6	−21 18	C3/2	XL	2004-X74

COMET C/2004 V13 (SWAN)

On Nov. 30, M. Mattiazzo (Adelaide, S. Australia) reported that he noticed images of a faint object moving on SWAN images (his positions below have uncertainties of a degree or more due to the poor resolution of the ultraviolet imager on SWAN/SOHO), speculating then that, if real, the object might become visible in the days ahead in the C3 coronagraph. Today, S. Hönig has reported the appearance of a comet with a tail in C3 images, which K. Battams reports has brightened slightly from mag $\sim$ 6.5 on Dec. 16.26 UT to $\sim$ 6.1 on Dec. 16.70–16.74. While only the first SOHO position by Battams is given below (reduced by B. G. Marsden), a span of 14 hours of SOHO astrometry appears on *MPEC* 2004-Y02.

2004 UT	α_{2000}	δ_{2000}	*Observer*
Nov. 9	12^h48^m	$-19^\circ.5$	SWAN
16	13 15	−20.5	"
21	13 41	−21.0	"
25	14 08	−21.5	"
Dec. 16.154	17 04.9	$-19\ 54'$	SOHO

It does appear that the SWAN object is identical with the SOHO object, and the following very preliminary parabolic orbital elements by Marsden also appear on *MPEC* 2004-Y02.

$$T = \text{2004 Dec. 21.139 TT} \qquad \left.\begin{array}{lcl}\omega & = & 94^\circ.253\\ \Omega & = & 207.015\\ i & = & 34.463\end{array}\right\} 2000.0$$
$$q = 0.17727 \text{ AU}$$

2004 December 16 *Daniel W. E. Green*