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COMET P/2007 J7 (LINEAR-MUELLER)

Comet P/1998 S1 (cf. *IAUC* 7031) has been recovered independently by R. H. McNaught on CCD images taken with the 0.5-m Uppsala Schmidt at Siding Spring on May 13 and by J. V. Scotti on CCD images taken with the Spacewatch 1.8-m *f*/2.7 reflector at Kitt Peak on June 26.5 UT. McNaught described the comet as faint and almost stellar, but with a 20″ tail in p.a. 240°. Scotti noted the comet to have a 9″ coma and a 64″ tail in p.a. 241°. The indicated ΔT correction to the prediction on *MPC* 51824 is +0.03 day ($\Delta T = +0.013$ day to the prediction by S. Nakano in the *2007 Comet Handbook*, p. H9). The orbital elements by B. G. Marsden below are from 265 observations, 1998–2007 (mean residual 0″.6).

2007 UT	α_{2000}	δ_{2000}	Mag.	*Observer*
May 13.78886	23ʰ22ᵐ36ˢ.76	−9°14′02″.9	18.2	McNaught
June 26.45086	0 08 30.27	−3 24 01.9	18.1	Scotti
26.45843	0 08 30.69	−3 23 57.4	18.0	"
26.46666	0 08 31.06	−3 23 53.7	18.0	"

Epoch = 1998 Nov. 3.0 TT

$$\begin{array}{ll} T = \text{1998 Nov. 2.7434 TT} & \left.\begin{array}{l}\omega = 26^\circ.3621\\ \Omega = 359.1837\\ i = 10.5598\end{array}\right\}2000.0 \\ e = 0.416704 & \\ q = 2.548366\text{ AU} & \end{array}$$

$a = 4.368908$ AU $n^\circ = 0.1079306$ $P = 9.132$ years

Epoch = 2007 Dec. 6.0 TT

$$\begin{array}{ll} T = \text{2007 Dec. 16.1419 TT} & \left.\begin{array}{l}\omega = 26^\circ.4358\\ \Omega = 359.1499\\ i = 10.5462\end{array}\right\}2000.0 \\ e = 0.415879 & \\ q = 2.552135\text{ AU} & \end{array}$$

$a = 4.369188$ AU $n^\circ = 0.1079202$ $P = 9.133$ years

COMETS C/2005 B5 AND C/2005 B6 (SOHO)

Two additional Kreutz sungrazing comets (cf. *IAUC* 8850) have been found by B. Zhou on 2005 archival SOHO website images. Each was stellar in appearance and faint, reaching mag ~ 7–7.5.

Comet	2005 UT	α_{2000}	δ_{2000}	Inst.	F	*MPEC*
C/2005 B5	Jan. 22.221	20ʰ33ᵐ.1	−21°40′	C3	BZ	2007-L16
C/2005 B6	30.571	21 06.8	−18 58	C3	BZ	2007-L16

2007 June 26 *Daniel W. E. Green*