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COMET CERNIS (19831)

Marsden telexes the following elements by him, calculated from more than 3 precise positions over a 3 day arc, with residuals less than 1" arc:

T = 1983 August 31.95 E.T.

$w = 196.32^\circ$

$\Omega = 208.81^\circ$ 1950.0

$q = 3.2376$ A.U.

$i = 136.19^\circ$

The elements suggest a gradual brightening to perhaps mag 10 by opposition in September/October. The following ephemeris by Birtwhistle assumes a magnitude formula of $m = 3.5 + 5 \text{ Log}(\text{Earth}) + 10 \text{ Log}(\text{Sun})$.

1983 E.T.	R.A. (1950) Dec		Earth	Sun	mi
Jul 25	2h42.4m	+10° 32'	3.284	3.258	+11.2
30	2 41.4	+9 25			
Aug 4	2 39.8	+8 11	3.078	3.249	+11.1
9	2 37.7	+6 49			
14	2 34.8	+5 19	2.877	3.242	+10.9
19	2 31.3	+3 41			
24	2 26.9	+1 53	2.690	3.238	+10.8

POSSIBLE SUPERNOVA in NGC 5746

Marsden also telexes that a possible supernova has been reported by Pellegrini, Nunes, DaCosta and Latham as follows:

1983 Jul 11 RA = 14h 42.3m Dec = +2° 10' mv = +13
Offsets 7 arcsec north, 5 arcsec west of nucleus.

P. Birtwhistle