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# The Astronomer

Founded 1984

## COMET MEIER (1980q)

Selected total visual magnitude estimates:

Nov. 8.00UT, 9.6 ( John Bortle); 9.08, 9.5 ( D.W.E. Green).

Marsden reports the following improved orbital elements:

T = 1980 Dec. 9.452 ET

w = 87°863 )

$\Omega$  = 24.806 ) 1950.0

i = 101.032 )

q = 1.52204 AU

The following ephemeris extends that published in E.W.C. 43:

1980 Nov. 22	17 <sup>h</sup> 56 <sup>m</sup> .68	+33°45'5	Earth	Sun	m1
27	17 55.36	+31 44.7	1.796	1.532	10.1
Dec. 2	17 54.50	+29 58.7			
7	17 53.97	+28 25.9	1.895	1.522	10.2
12	17 53.66	+27 04.9			
17	17 53.48	+25 54.4	1.971	1.526	10.3
22	17 53.34	+24 53.3			
27	17 53.19	+24 00.8	2.018	1.542	10.4

## SUPERNOVA IN NGC 6946

Further to the announcement in E.W.C. 42, the following preliminary magnitudes have been derived in conjunction with work carried out at the R.G.O. by Dr. Wood:

1, 10.2; 2, 10.4; 3, 11.4; 5, 12.0; 6, 12.3; 8, 12.4; 7, 12.7

A more detailed chart has now been drawn for TA 200 but advance copies can be obtained for 10p + postage from the Editor.

Please note that it is believed that star 4 = V778 Cygni (Lb 11.6-13.5p) Sp. N and should NOT BE USED for future estimates.

Please continue to send in results weekly for analysis and estimates should still be REPORTED IN FULL. Please give written permission for negatives to be sent to RGO if necessary.

GUY. M. HURST.