

COMMISSION 27 OF THE I. A. U.
INFORMATION BULLETIN ON VARIABLE STARS
Number 1043

Konkoly Observatory
Budapest
1975 September 9

ECLIPSE TIMINGS OF CATAclySMIC VARIABLES

The following heliocentric times of mid-eclipse of the cataclysmic variables EM Cyg, U Gem, DQ Her, and EX Hya are based on observations made at Kitt Peak National Observatory.

I) EM Cyg O-C
JD hel
2442000 +
515.8789 -0.0041

The residual is with respect to the elements given by Mumford (1969). Pringle (1975) has indicated that the period of this system is decreasing. This single observation is consistent with that conclusion.

II) U Gem O-C
JD hel
2442000 +
511.7073 +0.0070
513.6535 +0.0072
514.7151 +0.0074
516.6610 +0.0073

O-C values are with respect to the elements given by Krzeminski (1965). These results in combination with previously published times of minima, when analyzed in the manner suggested by Pringle (1975), indicate a statistically significant deviation from a linear relation and lead to the conclusion that the period of the system is increasing. However, Pringle (private communication) reports that this result is not so clear-cut when additional, currently unpublished times of minima are included in the analysis. For now, Pringle's (1975) linear solution provides the best ephemeris for this system.

III) DQ Her O-C
JD hel
2442000 +
513.9039 +0.0004
514.8722 +0.0006
515.8405 +0.0008

The O-C values are with respect to new linear elements given by Pringle (1975). At this time there is little or no evidence for a period change.

IV) EX Hya	O-C
JD hel	
2442000 +	
511.7921	-0.0001
513.7707	-0.0003
513.8390	-0.0002
515.7488	-0.0010
515.8174	-0.0006
516.7720	-0.0013
516.8415	0.0000

The O-C values are with respect to the elements given by Mumford (1967). Considerable flaring took place near the times of minima with the three large residuals.

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