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PHOTOELECTRIC MINIMA OF DO CASSIOPEIAE

The times of minima of eclipsing variable DO Cas were photoelectrically determined with a 48 cm Cassegrain telescope at the Ege University Observatory. The photometer is equipped with an EMI 9781 A photomultiplier tube and the standard Johnson B, V filters.

The heliocentric minima are listed in Table I, where (O-C) values of DO Cas were computed with the help of the light elements given by Cester et al. (1977).

$$\text{Min I} = \text{JD Hel. } 2433926.4573 + 0^{\text{d}}.6846661 \cdot E.$$

Table I

JD Hel.	E	(O-C)	Filter
2444485.37800	15422	0.00011	B
.37855	15422	0.00066	V
498.38564	15441	-0.00091	B
.38584	15441	-0.00071	V

The photoelectric times of the minima which have been obtained so far by other observers are also shown in Figure 1. The (O-C) values were computed again from the above given equation and plotted against cycles.

If the observations obtained in the recent years are examined one can easily assume that DO Cas exhibits decreasing period, since some (O-C) values obtained by other researchers do not fit to the above given equation. But the latest observations of this star, presented in this paper clearly indicate that (O-C) values fit very well to the equation given by Cester et al. (1977).

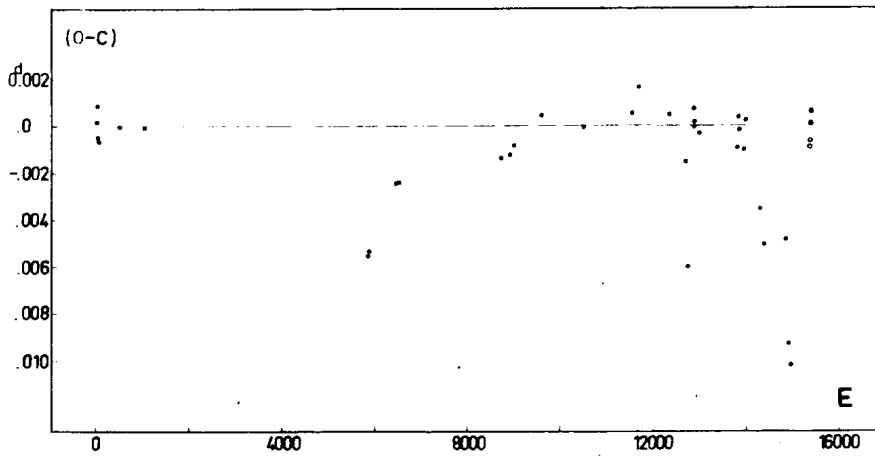


Figure 1. Dots and circles indicate the observations taken from other researchers and observations obtained at Ege University Observatory, respectively.

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Reference:

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