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CCD PHOTOMETRY OF V541 CASSIOPEIAE

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Name of the object:	
V541 Cassiopeiae = CSV 5990 = GR 75 = GSC 4051.1764 = FL 199	
Equatorial coordinates:	Equinox:
R.A. = 2 ^h 34 ^m 29 ^s .2 DEC. = +63°20'28"	J2000.0
Observatory and telescope:	
Hradec Králové Observatory, Czech Republic, 0.25-m Newtonian telescope	
Detector:	SBIG ST-5 CCD camera
Filter(s):	None
Comparison star(s):	GSC 4050.0957
Check star(s):	GSC 4050.1131
Transformed to a standard system:	No
Availability of the data:	
Through IBVS Web-site as 4710-t1.txt	
Type of variability:	EA
Remarks:	
New times of minimum light: HJD 2451157.5434, HJD 2451189.3872. New light elements: $\text{Pri. Min.} = \text{HJD } 2445962.3062 + 0^{\text{d}}9098488 \times E.$ $\pm 0.0002 \pm 0.0000001$ <p><i>O</i> – <i>C</i> diagram with respect to the new elements is plotted in Fig. 1., corresponding times of minima are available in electronic form through IBVS Web site. Our observations suggest, in accordance with the previous photoelectric measurements by Zhang et al. (1985, 1987), that V541 Cas should be classified as a short-period Algol. The depth of primary and secondary minima of V541 Cas are equal within the observational errors, therefore the choice of reference epoch in the above given elements is arbitrary.</p>	

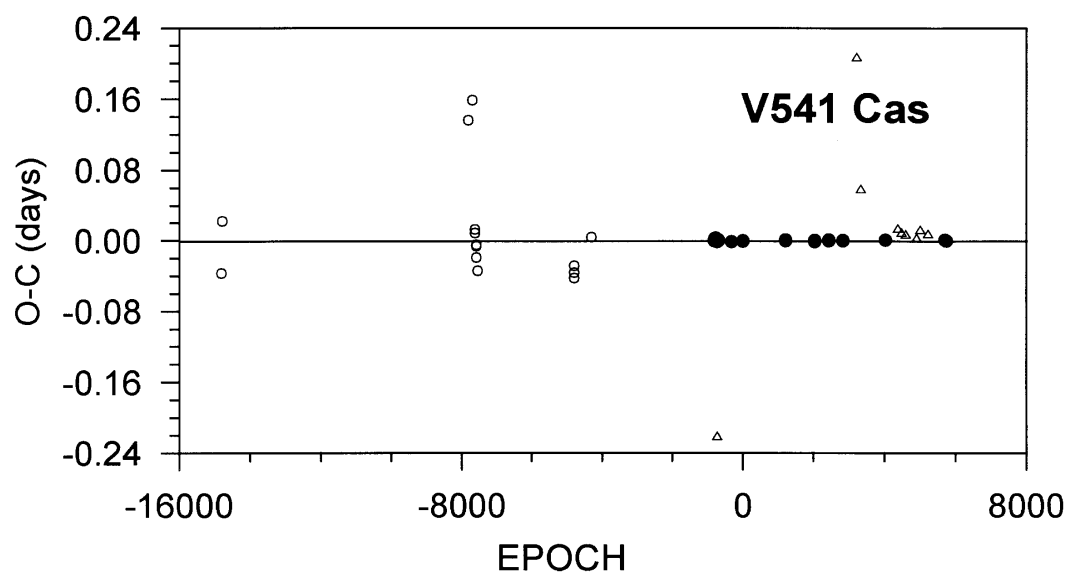


Figure 1. $O - C$ diagram of V541 Cas. The individual photoelectric and CCD observations are denoted by dots, the photographic measurements by circles and visual estimations by triangles.

References:

Zhang J.T., Zhang R.X., Li C.S., Zhai D.S., 1985, Inf. Bull. Var. Stars, No.2652

Zhang R.X., Zhang J.T., Li Q.S., Zhai D.S., 1987, Acta Astron. Sinica, 28, 131