BVR PHOTOMETRY OF THE W UMa STAR
V2388 OPHIUCHI IN 2000

YAKUT, K., İBANOĞLU, C.

Ege University Observatory, 35100 Bornova, Izmir, Turkey
email: yakut@astronomy.sci.ege.edu.tr, ibanoglu@astronomy.sci.ege.edu.tr

Name of the object:
V2388 Oph = HD 163151

Equatorial coordinates:		Equinox:
R.A.= $17^h54^m14^s21$ **DEC.**= $11°07'9$		2000

Observatory and telescope:
Ege University Observatory, 48-cm Cassegrain Telescope

Detector:	Hamamatsu, R4457 (PMT)

Filter(s):	B, V and R filters of Johnson UBV system

Comparison star(s):	HD 166095 = HIP 88862

Availability of the data:
Upon request

Type of variability:	W UMa

Remarks:
In this paper we present BVR light curves of V2388 Oph, which was discovered to be a W UMa type system by Rodriguez et al. (1998). This system was observed photoelectrically with the 48-cm Cassegrain telescope from 7 May 2000 to 23 August, 2000. The phases of the observations were calculated using the light elements given by Rodriguez et al. (1998): $$\mathrm{HJD_{min\,I}} = 2449890.5045 + 0^d80230 \times E.$$ Table 1 lists the dates of observations and the corresponding phases covered. The derived light curves for B, V and R colours are illustrated in Figure 1.

Table 1

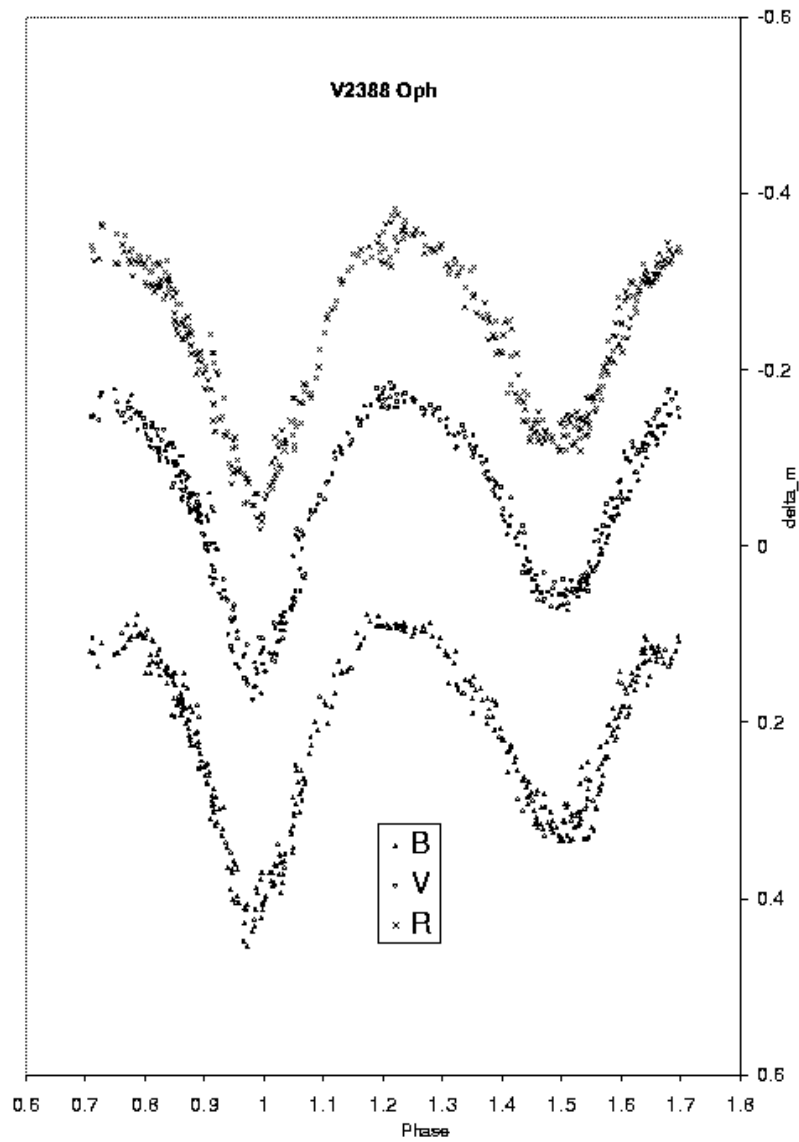| Date	Phase	Date	Phase
07 May	0.99–0.55	02 Aug.	0.31–0.45
04 Jun.	0.85–0.06	03 Aug.	0.53–0.66
10 Jun.	0.43–0.54	08 Aug.	0.77–0.99
27 Jun.	0.51–0.68	09 Aug.	0.01–0.22
08 Jul.	0.19–0.41	12 Aug.	0.81–0.92
18 Jul.	0.64–0.87	23 Aug.	0.44–0.64
23 Jul.	0.87–0.31		

Figure 1. The light curves of V2388 Oph

Reference:

Rodriguez, E., et al., 1998, *A&A*, **336**, 920