

PHOTOGRAPHIC OBSERVATIONS OF ECLIPSING BINARY AL OPH

V.I. Marsakova

Department of Astronomy, Odessa State University,
T.G.Shevchenko Park, 270014 Odessa, Ukraine

ABSTRACT. Photographic observations of AL Oph are discussed. Five moments of minima are listed.

Key words: Stars: eclipsing; individual: AL Oph.

AL Oph was measured on the plate collection of the Shternberg State Astronomical Institute (Moscow). Finding chart is shown at Fig. 1. The magnitudes of the comparison stars were obtained photographically by using the iris-photometer.

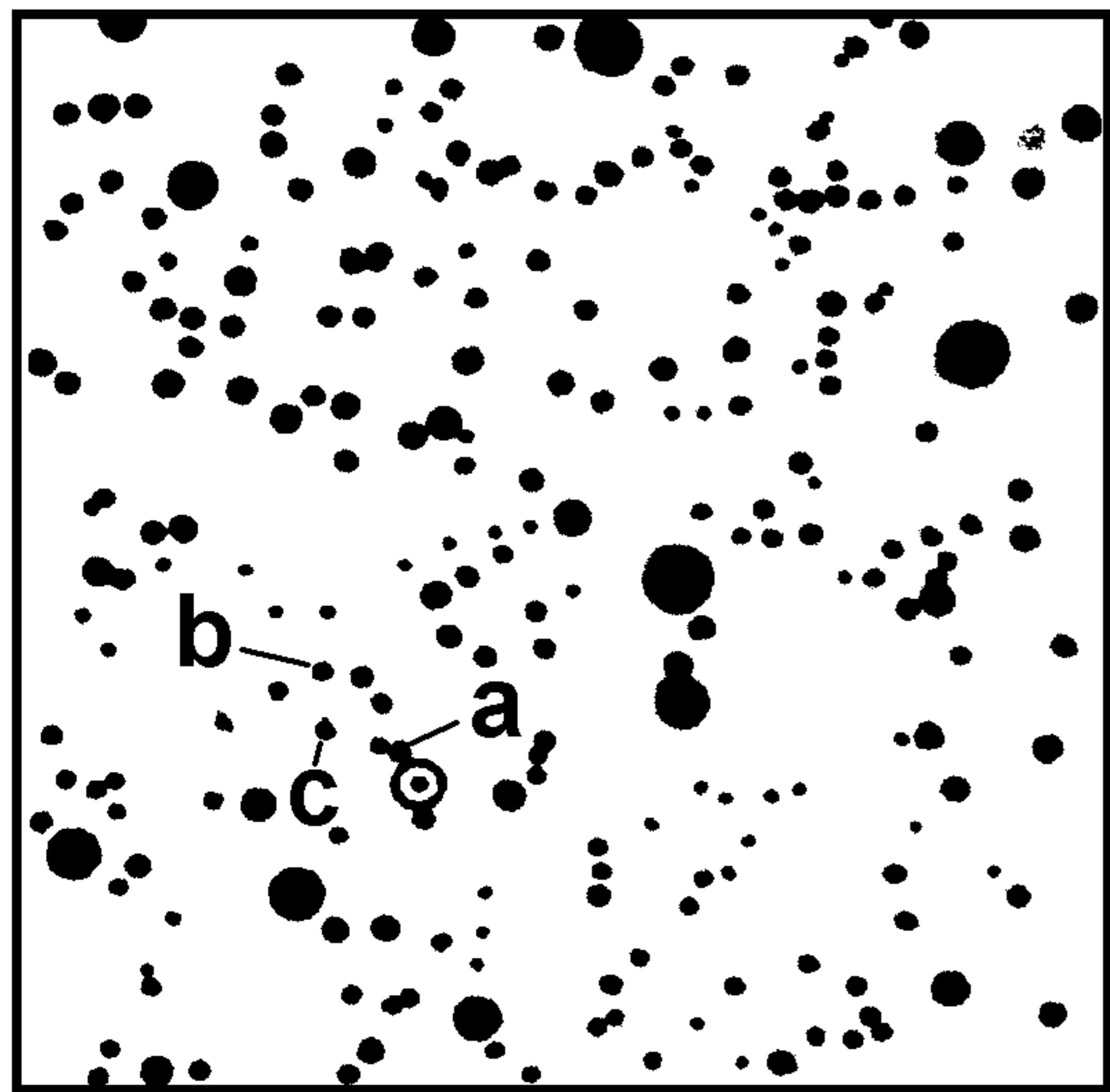


Figure 1. Finding chart for AL Oph. Magnitudes of the comparison stars: $a = 14.60$; $b = 15.10$; $c = 15.41$

Orbital period of system is close to 1^d and this fact produce difficulty of its definition. Šarounova and Wolf (1997) have found elements

$$JD2450243.4348 + 0.993005 \cdot E$$

using photoelectric observations. We have

Table 1. Moments, magnitudes and phases of minima

$JD24\dots\dots$	m	ϕ
34131.478	15.05	0.545
36341.422	15.11	0.058
36422.354	15.08	0.559
36504.292	15.01	0.074
48390.524	15.22	0.037

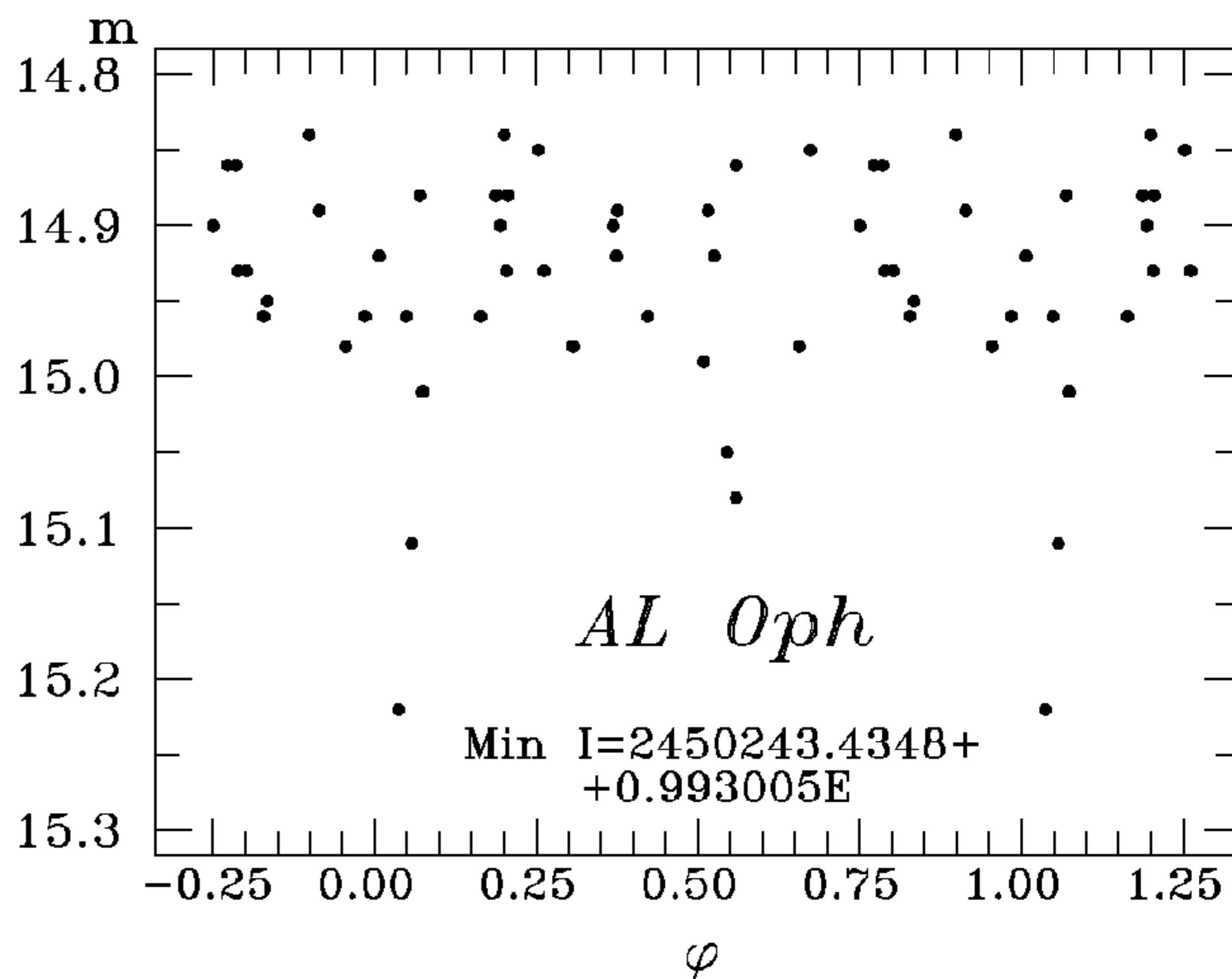


Figure 2. Phase light curve according to the elements by Šarounova and Wolf (1997).

used these elements to construct phase light curve by our observation (see Fig. 2.). There are 3 points corresponding to primary and 2 points corresponding to secondary minimum on it. Their moments and magnitudes are listed in Table 1.

Acknowledgement. The author is thankful to A.Paschke who initiated this work.

Reference

Šarounova L., Wolf M, 1997, *Inf. Bull. Var. Stars*, **4452**, 4pp.