

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

Number 3088

Konkoly Observatory  
 Budapest  
 17 September 1987  
 HU ISSN 0374-0676

NEW OBSERVED TIMES OF MINIMA FOR EE Aqr, RV Gru and RW PsA

UBVRI photometric observations of these three short period eclipsing binaries were carried out at La Silla (ESO) during the period 27 August - 2 September 1986 with the ESO 50 cm telescope. Simultaneous spectroscopic observations were also performed for these systems.

For each program star one primary minimum could be observed; the times of minima given below are obtained from averages on the five colours:

	EE Aqr	RV Gru	RW PsA
T(hel.prim.min)	2446674.5897	2446673.8810	2446675.6850

From these and using all the other observed times of minima found in literature the following new ephemerides could be computed:

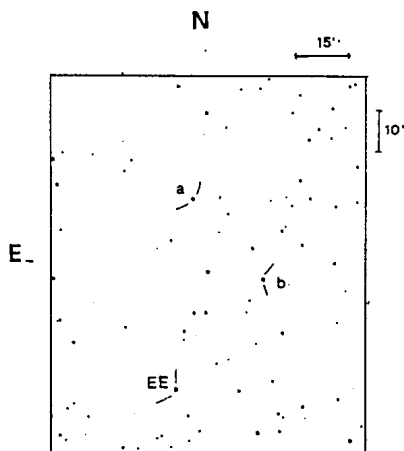


Figure 1

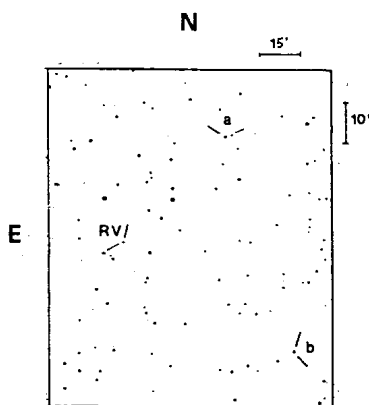


Figure 2

EE Aqr	Hel. J.D. (prim. min.) =	2440828.7809	+	E·0.50899513
		$\pm$ .0003		$\pm$ .00000005
RV Gru		2442655.7905	+	E·0.25951625
		$\pm$ .0002		$\pm$ .00000004
RW PsA		2434328.4684	+	E·0.36045011
		$\pm$ .0008		$\pm$ .00000004

Table I

Star	(1950)	(1950)	S.T.	m
EE Aqr	22 31 59	-20 07.1	F0	8.0
SAO 165165	22 31 42	-19 18.6	F8	8.5
SAO 165157	22 30 25	-19 38.9	A0	9.1
RV Gru	22 36 25	-47 08.0		11.3
SAO 231212	22 33 38	-46 43.1	K0	9.3
SAO 231204	22 32 12	-47 38.1	G5	9.8
RW PsA	22 06 56	-27 18.9		11.0
SAO 190916	22 06 08	-27 26.5	K2	9.0
SAO 190901	22 04 51	-28 18.2	G0	7.9

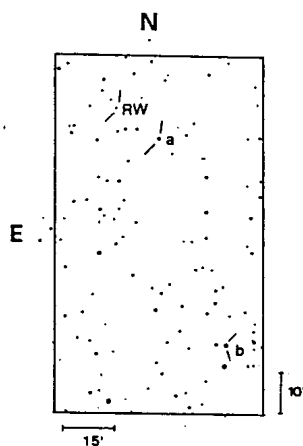


Figure 3

A more complete presentation of the observations will follow in some forthcoming papers. The identifications of comparison and check stars as well as the corresponding finding charts, for each variable star are also given in Table I, and Figures 1 - 3, respectively.

E. COVINO (1), L. MILANO (2)  
D. DE MARTINO (1), A.A VITTONI (1)

- (1) Osservatorio di Capodimonte Napoli, ITALY  
(2) Dipartimento di Fisica  
Universita' di Napoli ITALY

## References:

- Chambliss, C.R., 1970, *Astron. J.* 75, 725.  
Duerbeck, H.W., Walter, K. 1983, *Astron. Astrophys. Supp.* 54, 545.  
Dworack, T.Z., 1987, *I.B.V.S.*, No 2991.  
Padalia, T.D., 1979, *Astrophys. Space Science.*, 62, 477.  
Williamson, R.M., 1974, *Astron. J.*, 79, 1093.