

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

NUMBER 391

Konkoly Observatory
 Budapest
 1969 October 16

00 Aql - AN ECLIPSING BINARY
 WITH RAPIDLY SHORTENING PERIOD

At the University - Observatory of Izmir 2 photoelectric minima of the eclipsing variable 00 Aql (W UMa-type) were obtained during the last months. The O-C's against the elements, given in GCVS 1958 (I) and SAC 40, 1969 (II) are increasing (see table). New elements were calculated by the method of least squares (III and IV).

In the table the minima 1, 3 and 4 are normal minima, calculated from 16, 28 and 12 visual determined minima (published in IBVS). The Observers are: Ashbrook, Baldwin, Cook, Howell, Monske, Lowder and Williams. The other minima are photoelectric, 2 from Pohl, number 5 and 6 from Ibanoglu and Kurutaç.

The calculation with all 6 minima gives the elements III; the O-C_{III} show clearly, that the period has shortened between JD 2437 000 and 2440 000. From minima 3 to 6 I have obtained the elements IV, which gave very small O-C's and may be valid at present time.

No.	Minima	JD.	O-C(I)	O-C(II)	O-C(III)	O-C(IV)
1	2437	200.532	-0.011	+0.001	-0.008	
2	38	239.466	-0.009	+0.007	+0.006	
3	39	300.681	-0.025	-0.006	+0.003	-0.001
4	39	714.728	-0.030	-0.010	+0.003	+0.001
5	40	068.4638	-0.038	-0.0166	-0.0011	-0.0002
6	40	366.4544:	-0.044	-0.0211:	-0.0031:	-0.0002:
I	Min	JD 2434	226.4113	+0.50679597	. E	(GCVS 1958)
II	"	" 37	192.4222	+0.506794387	. E	(SAC 40, 1969)
III	"	" 37	200.540	+0.50679006	. E	(Pohl)
IV	"	" 39	300.682	+0.5067868	. E	(Pohl)

E. POHL
 85 Nürnberg
 Sternwarte
 Lützowstr. 10