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PHOTOELECTRIC EPOCHS OF MINIMUM LIGHT OF SY HOROLOGII

The first photoelectric observations of SY Horologii (= S 4832 = CoD - 46° 1350) were obtained in January 1981 with the 0.6-m telescope at Cerro Tololo Inter-American Observatory in Chile. Differential measurements in B and V were made on seven nights resulting in 540 individual observations in each bandpass. Each observation is an average of two ten second integrations.

An iterative process based on the method of Hertzsprung (1928) was applied to the present observations to determine the epochs of minimum light listed in Table I. Earlier visual and photographic timings of minimum light of SY Hor have been published by Hoffmeister (1956).

The O-Cs were computed from the ephemeris

$$\text{Min I (Hel. J.D.)} = 2444613.6335 + 0^{\text{d}}.31164361 \text{ E} \\ \pm \quad \quad \quad .0011 \pm .00000005 \text{ (p.e.)}$$

which was derived by a least squares analysis using all the available data and weighting the times of minima 10 to 3 to 1, photoelectric to photographic to visual.

The observations, period study, and analyses of the light curves are being published separately.

TABLE I  
 TIMES OF MINIMA FOR SY Hor

HEL. J.D.	MIN	EPOCH	O-C	FILTER
2444609.58233	I	-13.0	-0.0002	B,V
2444611.60752	II	-6.5	0.0003	B,V
2444613.63385	I	0.0	-0.0004	B,V
2444615.65874	II	6.5	0.0004	B,V
2444618.62002	I	16.0	-0.0002	B,V

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## References:

- Hertzprung, E., 1928, Bull. Astr. Inst. Netherlands 4, 179.  
Hoffmeister, C., 1956, Veröff. Sonneberg, 3, (1), 7, 17.