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PHOTOELECTRIC MINIMA OF ECLIPSING BINARIES

Photoelectric observations of the eclipsing binaries 44i Boo, RZ Cas, U Cep and U Sge have been made with the 0.5-m reflector at the Odessa Observatory for the purpose of determining times of minima for the period studies. The comparison stars were GC 20111 for 44i Boo, GC 3075 for RZ Cas, HD 6006 for U Cep and HD 180242 for U Sge.

The moments of minima were determined by the chord bisection method for 44i Boo, RZ Cas and by the mean light curve method for U Cep, U Sge.

The heliocentric times of the observed minima in yellow filter are given in Table I, along with the epoch number (E), the O-C values and the number of estimates used for each minimum (n).

Table I

Star	Min HJD	E	O - C	n
44i Boo	2447359.3920	28030	+0.0221 ^d	10
	364.3469	28048.5	+0.0224	20
	365.4180	28052.5	+0.0223	14
	371.4438	28075	+0.0222	14
	375.3270	28089.5	+0.0220	15
	388.3163	28138	+0.0223	19
	393.4050	28157	+0.0225	33
RZ Cas	370.5336	25112	-0.0554	19
	376.5099	25117	-0.0554	22
	382.4868	25122	-0.0547	26
	394.4394	25132	-0.0547	25
U Cep	361.2810	15833	+0.8922	26
	366.2650	15835	+0.8904	28
U Sge	383.5632	8949	+0.0002	27
	390.3250	8951	+0.0008	29

The O-C values have been calculated from the ephemeris:

$$44i \text{ Boo} \quad \text{Min I HJD} = 2439852.4903 + 0.^d_{2678159} E$$

$$RZ \text{ Cas} \quad \text{Min I HJD} = 2417355.4233 + 1.^d_{1952519} E$$

U Cep Min I HJD = 2407890.2957 + 2.^d4929005 E

U Sge Min I HJD = 2417130.4090 + 3.^d3806184 E

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