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MINIMA OF ECLIPSING VARIABLES

This report continues the one in IBVS # 114, and contains 110 observed minima of 24 eclipsing variable stars. All are visual timings reduced by the tracing-paper method, except where noted. Elements in the 1958 General Catalogue of Variable Stars were used to compute O-C's unless otherwise specified. The number of estimates used for each minimum is given under n.

J. D. (+2400000)	<u>E</u>	<u>O - C</u>	<u>n</u>	<u>Observer</u>
<u>RT Andromedae</u>				
39045.662	+23733	-0.029	17	R. Swanberg
39045.663	+23733	-0.028	11	M. Baldwin
39050.696	+23741	-0.026	12	R. Monske
39052.586	+23744	-0.015	12	R. Monske
39062.649	+23760	-0.023	13	R. Monske
39064.535	+23763	-0.024	13	R. Monske
39069.567	+23771	-0.023	10	M. Baldwin
39077.745	+23784	-0.021	14	M. Baldwin
<u>XZ Andromedae</u>				
33559.527	+ 498	+0.002	4	J. Ashbrook
33582.597	+ 515	-0.002	4	J. Ashbrook
34268.653	+1019	-0.011	6	J. Ashbrook
37180.732	+3166	+0.008	21	J. Ashbrook
37552.638	+3440	+0.022	21	J. Ashbrook

<u>J. D.</u> (+2400000)	<u>E</u>	<u>O - C</u>	<u>n</u>	<u>Observer</u>
<u>XZ Andromedae</u>				
39045.662	+4540	+0.048	29	M. Baldwin
39045.662	+4540	+0.048	18	R. Swanberg
39053.805	+4546	+0.047	13	R. Monske
39063.308	+4553	+0.049	7	T. de Menten
39064.664	+4554	+0.048	9	D. Williams
39064.665	+4554	+0.049	12	T. Cragg
39064.665	+4554	+0.049	15	R. Monske
39068.736	+4557	+0.048	26	R. Swanberg
<u>BX Andromedae</u>				
37180.688	+36865.5	+0.024	18	J. Ashbrook
<u>CX Aquarii</u>				
39036.663	+22852	+0.020	16	R. Monske
39036.666	+22852	+0.023	15	M. Baldwin
39046.673	+22870	+0.022	13	R. Monske
39050.564	+22877	+0.021	13	R. Monske
39051.673	+22879	+0.018	13	R. Monske
<u>OO Aquilae</u>				
37111.598	+5693	-0.003	12	J. Ashbrook
37112.604	+5695	-0.010	16	J. Ashbrook
37113.617	+5697	-0.011	15	J. Ashbrook
37118.690	+5707	-0.006	25	J. Ashbrook
37128.576	+5726.5	-0.002	15	J. Ashbrook
37132.620	+5734.5	-0.013	8	J. Ashbrook
37147.576	+5764	-0.007	5	J. Ashbrook
37148.588	+5766	-0.009	18	J. Ashbrook
37172.660	+5813.5	-0.010	22	J. Ashbrook
37199.509	+5866.5	-0.021	16	J. Ashbrook
37200.522	+5868.5	-0.021	11	J. Ashbrook
37201.548	+5870.5	-0.009	12	J. Ashbrook
37217.517	+5902	-0.004	12	J. Ashbrook
37508.650	+6476.5	-0.025	6	J. Ashbrook
37518.546	+6496	-0.012	6	J. Ashbrook
37539.573	+6537.5	-0.017	10	J. Ashbrook
39036.651	+9491.5	-0.014	13	M. Baldwin

<u>J. D.</u> (+2400000)	<u>E</u>	<u>O - C</u>	<u>n</u>	<u>Observer</u>
<u>V346 Aquilae</u>				
39019. 715	+6951	-0. 014	12	T. Cragg
39029. 670	+6960	-0. 014	17	R. Monske
39050. 693	+6979	-0. 014	17	R. Monske
39059. 547	+6987	-0. 011	16	R. Monske
<u>SV Camelopardalis</u>				
38977. 481	+11280	-0. 015	9	A. Howell
39036. 794	+11380	-0. 010	11	M. Baldwin
39050. 419	+11403	-0. 025	12	A. Howell
39077. 712	+11449	-0. 014	12	M. Baldwin
39080. 680	+11454	-0. 011	12	M. Baldwin
<u>RZ Cassiopeiae</u>				
38665. 534	+17829	-0. 035	16	J. Ashbrook
39045. 624	+18147	-0. 036	15	M. Baldwin
39050. 401	+18151	-0. 040	9pg	T. de Menten
39050. 406	+18151	-0. 035	11	A. Howell
39050. 409	+18151	-0. 032	10	T. de Menten
39052. 795	+18153	-0. 036	13	R. Monske
39056. 379	+18156	-0. 038	9pg	T. de Menten
39056. 381	+18156	-0. 036	8	A. Howell
39075. 501	+18172	-0. 040	20	L. Robinson
<u>TV Cassiopeiae</u>				
39070. 402	+10456	+0. 010	10	T. de Menten
39079. 472	+10461	+0. 017	9	L. Robinson
39088. 527	+10466	+0. 009	10	L. Robinson
<u>AB Cassiopeiae</u>				
39067. 633	+9936	+0. 057	18	M. Baldwin
<u>XX Cephei</u>				
39080. 649 ¹	+5983	-0. 073	13	M. Baldwin.
<u>TY Delphini</u>				
39052. 542	+9262	-0. 020	16	R. Monske

<u>J. D.</u> (+2400000)	<u>E</u>	<u>O - C</u>	<u>n</u>	<u>Observer</u>
<u>AI Draconis</u>				
39057.418	+12028	+0.018	10	A. Howell
<u>SZ Herculis</u> ²				
39029.596	+2326	+0.010	11	R. Monske
<u>SW Lacertae</u>				
39029.646	+48818.5	+0.032	12	R. Monske
39036.701	+48840.5	+0.031	12	R. Monske
39038.625	+48846.5	+0.031	14	T. Hering
39047.605	+48874.5	+0.031	13	R. Monske
39051.776	+48887.5	+0.032	13	R. Monske
39053.698	+48893.5	+0.030	12	R. Monske
39062.678	+48921.5	+0.030	13	R. Monske
39063.637	+48924.5	+0.027	13	R. Monske
39064.602	+48927.5	+0.030	13	R. Monske
<u>FL Lyrae</u>				
39051.433	+2385	+0.001	10	A. Howell
39053.606	+2386	-0.004	16	R. Monske
<u>Beta Lyrae</u> ³				
28325.39	-134	-0.01	14	J. Ashbrook
28855.51	-93	+0.15	14	J. Ashbrook
29191.48	-67	-0.04	12	J. Ashbrook
29656.65	-31	-0.12	14	J. Ashbrook
29824.82	-18	+0.01	14	J. Ashbrook
30703.70	+50	-0.08	14	J. Ashbrook
31078.80	+79	+0.17	13	J. Ashbrook
31311.39	+97	+0.09	13	J. Ashbrook
31530.99	+114	-0.05	15	J. Ashbrook
<u>U Ophiuchi</u>				
35655.621	+16321	+0.009	16	J. Ashbrook

<u>J. D.</u> (+2400000)	<u>E</u>	<u>O - C</u>	<u>n</u>	<u>Observer</u>
<u>V566 Ophiuchi</u> ⁴				
35658.467	+1008	+0.005	17	J. Ashbrook
35672.383	+1042	-0.007	13	J. Ashbrook
35689.597	+1084	+0.002	11	J. Ashbrook
35990.667	+1819	-0.014	16	J. Ashbrook
36012.810	+1873	+0.008	23	J. Ashbrook
<u>BV 544 Ophiuchi</u> ⁵				
38936.772	+19819.5	-0.014	9	D. Williams
38949.683	+19839	-0.001	9	D. Williams
<u>RT Persei</u>				
39051.750	+6903	-0.018	13	R. Monske
<u>Beta Persei</u> ⁶				
39046.674	+377	-0.007	18	R. Monske
39069.612	+385	-0.008	13	L. Robinson
39069.615 ⁷	+385	-0.005	9pe	D. Engelkemeir
39089.689	+392	-0.002	11	L. Robinson
39092.552	+393	-0.007	12	J. Ashbrook
39092.553	+393	-0.006	11	L. Robinson
<u>RW Tauri</u>				
39077.762	+1681	+0.008	19	M. Baldwin
<u>X Trianguli</u>				
39057.679	+4490	+0.026	17	R. Swanberg
39059.623	+4492	+0.027	15	R. Monske
39092.649	+4526	+0.021	10	D. Williams
39095.567	+4529	+0.025	12	D. Williams

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- 1). This is a revised determination by Baldwin, from more complete data, of a minimum published in IBVS No. 111.
 - 2). O - C was computed from the elements given in Sky and Tele., 25, 5, 277.
 - 3) These are normal minima, each formed by fitting a mean light curve to faint estimates. O - C's were computed from elements derived by J. Ashbrook from these minima only:

$$\text{Min} = \text{JD}_0 2430057.48 + 12^{\text{d}} . 9260 \text{ E}$$

$$\quad \quad \quad \pm .03 \quad \quad \pm .0004 \text{ (mean errors).}$$

- 4). These are normal minima formed with a mean light curve. O - C's were computed from the elements of L. Binnendijk, AJ, 64, 65, 1959.
- 5). O - C's were computed from the elements given by Schöffel and Köhler in IBVS No. 77.
- 6). O - C's were computed from the elements given in Sky and Tele., 27, 5, 316.
- 7). The time of minimum was determined by fitting the observations to a normal light curve.

This work is sponsored by the American Association of Variable Star Observers, with David B. Williams as program coordinator. The reductions are made by the writer with Joseph Ashbrook, except in a few cases which were checked.

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