

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

NUMBER 187

Konkoly Observatory
 Budapest
 27 February 1967

MINIMA OF ECLIPSING VARIABLES

Given are 125 observed minima for 15 eclipsing variable stars. All are visual (v) and photographic (pg) estimates reduced by the tracing-paper method and by fitting the observations to the mean light curve. Elements in the General Catalogue of Variable Stars were used to compute O-C's unless otherwise specified. The number of estimates used is given under n.

J. D. hel. (2430000)		O-C	E	n	Observer
<u>WZ Andromedae</u>					
9004,440	pg	+0, ^d 005	18811	21	Todoran
9006,522	"	0,000	18814	23	"
9041,312	"	+0,007	18864	9	"
9324,445	"	+0,006	19271	9	"
9381,492	"	+0,008	19353	12	"
<u>XZ Andromedae</u>					
8262,498	v	+0,029	3963	15	Popa
8345,299	"	+0,037	4024	11	"
<u>TV Cassiopeiae</u>					
8972,515	v	+0,004	104020	17	Popa
8981,579	"	+0,005	104070	14	"
<u>AB Cassiopeiae</u> ¹⁾					
7580,477	v	+0,008	8848	25	Popa
8269,390	"	+0,015	9352	25	"
8310,395	"	+0,014	9382	12	"
8981,527	"	+0,007	9873	31	"
9022,534	"	+0,008	9903	24	"

J. D. hel.
(2430000)

U Cephei

		O-C	E	n	Observer
8271,562	v	+0,097 ^d	12187	11	Popa
8286,522	"	+0,099	12193	10	"
8291,508	"	+0,099	12195	10	"
8306,463	"	+0,097	12201	20	"
8311,448	"	+0,095	12203	9	"
8316,434	"	+0,095	12205	8	"
8336,378	"	+0,095	12213	7	"
8969,615	"	+0,119	12467	16	"
8979,587	"	+0,120	12471	19	"
9029,444	"	+0,117	12491	13	"
9034,430	"	+0,117	12493	15	"
9049,389	"	+0,118	12499	12	"
9094,259	"	+0,115	12517	16	"

ZZ Cygni 2)

8920,3830	pg	+0,0046	28289	7	Todoran
8969,426	v	+0,010	28367	19	Popa
8976,3310	"	+0,0057	28378	7	Todoran
8979,4755	"	+0,0074	28383	8	"
8981,3603	"	+0,0062	28386	8	"
8988,2755	"	+0,0066	28397	5	"
9013,4165	pg	+0,0029	28437	12	"
9030,3920	v	+0,0058	28464	5	"
9032,2757	"	+0,0036	28467	12	"
9035,4200	"	+0,0049	28472	9	"
9037,3080	"	+0,0070	28475	9	"
9093,2490	pg	+0,0012	28564	15	"
9289,3780	"	+0,0020	28876	12	"
9292,5210	"	+0,0019	28881	9	"
9326,4660	"	+0,0017	28935	13	"
9357,2695	"	+0,0030	28984	6	"
9380,5290	"	+0,0037	29021	4	"

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Z Draconis

		O-C	E	n	Observer
8937,377	v	+0,010 ^d	4176	5	Todoran
8975,386	pg	+0,011	4204	10	"
9256,374	"	+0,009	4411	6	"
9294,381	"	+0,008	4439	5	"
9321,532	"	+0,010	4459	5	"
9404,336	"	+0,011	4520	8	"

RZ Draconis 3)

7149,497	v	+0,005	13979	8	Popa
7197,422	"	+0,004	14066	11	"
7213,397	"	+0,003	14095	15	"
8198,365	"	+0,004	15883	8	"
8199,463	"	0,000	15885	10	"
8209,378	"	-0,001	15903	9	Todoran
8210,480	"	-0,001	15905	5	"
8210,482	"	+0,001	15905	10	Popa
8215,447	"	+0,009	15914	8	"
8220,398	"	+0,002	15923	7	"
8247,389	pg	0,000	15972	10	Todoran
8248,490	"	-0,001	15974	7	"
8258,406	v	-0,001	15992	5	"
8306,334	pg	+0,001	16079	7	"
8605,465	v	+0,006	16622	10	Popa
8885,305	"	+0,001	17130	9	"
8885,308	pg	+0,003	17130	5	Todoran
8885,302	v	-0,003	17130	9	"
8951,410	"	0,000	17250	14	Popa
8972,342	"	-0,001	17288	12	"
8977,300	"	-0,001	17297	12	"
8978,411	"	+0,008	17299	13	"
9021,371	pg	0,000	17377	11	Todoran
9022,473	v	0,000	17379	8	"
9022,481	"	+0,008	17379	18	Popa
9032,390	"	+0,001	17397	10	"
9032,394	"	+0,005	17397	9	Todoran
9037,347	"	+0,001	17406	13	"
9074,256	pg	+0,001	17473	12	"

J. D. hel. O-C E n Observer
 (2430000)

TU Herculis ⁴⁾

		^d	E	n	Observer
8142,484	pg	+0,002	300	9	Todoran
8210,492	"	0,000	330	13	"
8956,307	"	-0,018	659	10	"
9033,378	"	-0,024	693	7	"
9289,552	"	-0,018	806	8	"
9339,424	"	-0,020	828	6	"
9380,230	"	-0,019	846	10	"
9389,298	"	-0,019	850	9	"

RV Lyrae ⁵⁾

			E	n	Observer
7914,468	pg	-0,002	920	8	Todoran
8184,396	"	-0,001	995	9	"
8605,484	"	-0,001	1112	8	"
8670,263	"	-0,003	1130	14	"
8983,379	"	-0,002	1217	4	"
9037,364	"	-0,002	1232	19	"
9260,504	"	-0,002	1294	8	"

Z Persei

			E	n	Observer
8663,341	pg	-0,056	2575	9	Todoran
8669,455	"	-0,055	2577	15	"

RT Persei ⁶⁾

			E	n	Observer
7564,466	v	+0,008	4862	10	Popa
7565,315	"	+0,007	4863	10	"
9013,5313	pg	-0,0082	6568	10	Todoran
9030,5225	"	-0,0050	6588	9	"
9037,3160	v	-0,0067	6596	8	"
9071,2900	pg	-0,0088	6636	7	"
9093,3740	"	-0,0093	6662	8	"
9381,3270	"	-0,0038	7001	7	"

J. D. hel. (2430000)	O-C	E	n	Observer	
<u>XZ Persei</u>					
8684,430	pg	0 ^d ,000	11752	13	Todoran
8714,374	"	+0,002	11778	6	"
9390,390	"	+0,009	12365	8	"
<u>X Trianguli 7)</u>					
7151,528	v	+0,004	14852	15	Popa
7192,333	"	+0,004	14894	18	"
8316,401	"	+0,008	16051	5	Todoran
8318,346	"	+0,010	16053	5	"
8319,310	"	+0,003	16054	21	Popa
8320,280	"	+0,001	16055	21	"
8658,378	pg	+0,005	16403	6	Todoran
9030,478	v	+0,008	16786	12	"
9032,417	"	+0,004	16788	13	"
9033,390	"	+0,006	16789	10	"
9034,338	"	-0,018	16790	22	Popa
9096,543	pg	+0,009	16854	12	Todoran
9373,426	"	+0,005	17139	6	"
<u>UX Ursae Majoris</u>					
9265,4004	pg	-0,0075	60630	4	Todoran
9268,3546	"	-0,0033	60645	5	"
9277,4003	"	-0,0045	60691	6	"
9285,4640	"	-0,0044	60732	6	"
9291,3650	"	-0,0035	60762	5	"

Notes: Elements not contained in the GCVS:

- 1) $2425486,4254 + 1,3668562 \cdot E + 1,262 \cdot 10^{-9} \cdot E^2$
- 2) $2421137,4377 + 0,62861764 \cdot E - 2,961 \cdot 10^{-11} \cdot E^2$
- 3) $2429448,787 + 0,55087668 \cdot E$
- 4) $2437462,3909 + 2,2669718 \cdot E$
- 5) $2434603,3674 + 3,599025 \cdot E$
- 6) $2433434,6624 + 0,84940272 \cdot E$
- 7) $2422722,3107 + 0,97153337 \cdot E$

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