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MINIMA OF ECLIPSING VARIABLES

This report continues the ones in IBVS 187 and 299 and contains 48 observed minima of 11 eclipsing variable stars. The observations are photographic (pg) or photoelectric (pe). The photoelectric observations were made using a 50 cm Newton reflector and a photometer employing an unrefrigerated 1P21 photomultiplier tube.

The heliocentric moments of minima were determined by the method of the mean light curve (Todoran 1969) and that of the bisection curve (Todoran 1968).

Elements in the General Catalogue of Variable Stars were used to compute O-C's for: U Cep, V477 Cyg, W Del, and UX Uma; for the other stars the author's elements given in IBVS 299 and 636 were used. The number of observations is given under n.

J.D. hel. (2400000)		O-C	E	n
<u>XZ Andromedae</u>				
39865.4720	pg	+0.0054	2496	15
40070.4145	"	-0.0036	2647	6
40093.4890	"	-0.0031	2664	10
40127.4215	"	-0.0029	2689	14
40135.5675	"	-0.0007	2695	7
40138.2800	"	-0.0028	2697	10
40157.2900	"	+0.0051	2711	17
40446.3850	"	-0.0036	2924	13
40454.5260	"	-0.0064	2930	6
<u>U Cephei</u>				
41198.4067	pe	+0.0189	1166	20
41218.3500	"	+0.0179	1174	16
41223.3360	"	+0.0178	1176	30
<u>RW Coronae Borealis</u>				
41445.4531	pe	-0.0045	28970	29
41464.3405	"	-0.0037	28996	16
41469.4255	"	-0.0036	29003	17
<u>ZZ Cygni</u>				
40115.3805	pg	+0.0032	30190	11
40139.2665	"	+0.0019	30228	11
40430.3150	"	+0.0012	30691	6
40445.4010	"	+0.0004	30715	15
40467.4030	"	+0.0009	30750	10
40682.3900	"	+0.0012	31092	11
40731.4215	"	+0.0008	31170	14

J.D. hel. (2400000)		O-C	E	n
<u>V477 Cygni</u>				
41464.4060	pe	-0. <sup>d</sup> 0136	3672	7
41478.4896	"	-0.0119	3678	32
<u>W Delphini</u>				
39709.562	pg	+0.107	4507	9
39978.700	"	+0.107	4563	11
40031.557	"	+0.097	4574	9
40079.600	"	+0.080	4584	10
40113.237	"	+0.074	4591	10
40137.266	"	+0.073	4596	18
40161.300	"	+0.077	4601	6
<u>Z Draconis</u>				
40654.5375	pg	+0.0015	5441	9
40684.3935	"	+0.0092	5463	6
41064.4795	"	+0.0064	5743	12
<u>RZ Draconis</u>				
41236.440	pe	-0.0062	21398	25
<u>TU Herculis</u>				
40153.261	pg	-0.025	1187	5
40681.455	"	-0.036	1420	12
40697.312	"	-0.048	1427	6
41062.309	"	-0.033	1588	7
41071.380	"	-0.030	1592	5
<u>CC Herculis</u>				
40677.5485	pg	+0.0180	8395	5
40710.4850	"	+0.0088	8414	10
41036.4775	"	+0.0120	8602	18
41062.4890	"	+0.0136	8617	10
41083.3020	"	+0.0188	8629	6
<u>UX Ursae Majoris</u>				
40600.605	pg	0.000	16127	9
40653.506	"	-0.004	16396	7
40656.455	"	-0.005	16411	6

IOAN TODORAN  
Astronomical Observatory  
Cluj, Rumania

References:  
Todoran, I., 1968 Acta Astronomica 18, 61.  
Todoran, I., 1969 Studii și Cercetări de Astronomie  
14, 35.