

### Gwiazdy zmienne zaćmieniowe (I)

Nazwa	$\alpha_{2000}$	$\delta_{2000}$	m	$A_1$	$A_2$	D	d	Minimum	Okres
	h m	° ' "							
U Cep	1 02.2	+81 52	6.8	2.3	0.1	9.6	2.3	833.07	2.4931
BX And	2 09.0	+40 48	8.9	0.7	0.3	W		832.80	0.6101
DO Cas	2 41.4	+60 34	8.6	0.7	0.2	$\beta$		832.73	0.6847
RZ Cas	2 48.9	+69 38	6.2	1.5	0.1	4.8	0	832.52	1.1953
XY Cet	2 59.5	+03 31	8.6	0.7	0.5	6.7	0	834.78	2.7807
$\beta$ Per	3 08.2	+40 57	2.1	1.3	0.1	9.6	0	834.19	2.8674
BF Aur	5 05.1	+41 18	8.5	0.8	0.7	$\beta$		833.04	1.5832
TT Aur	5 09.7	+39 36	8.3	0.9	0.4	$\beta$		832.50	1.3327
SX Aur	5 11.7	+42 10	8.4	0.8	0.5	$\beta$		833.36	1.2101
WW Aur	6 32.5	+32 28	5.8	0.8	0.6	6.0	0	834.94	2.5250
YY CMi	8 06.6	+01 56	8.3	0.8	0.6	$\beta$		833.21	1.0940
SW Lyn	8 07.7	+41 48	9.5	0.7	0.1	2.0		833.09	0.6441
W UMa	9 43.8	+55 57	7.9	0.7	0.7	W		832.61	0.3336
TX UMa	10 45.4	+45 34	7.1	1.7	0.1	9.4	0	834.40	3.0633
AI Dra	16 56.3	+52 42	7.1	1.0	0.1	4.4	0	832.64	1.1988
U Oph	17 16.5	+01 12	5.9	0.7	0.6	7.0	0	832.69	1.6773
u Her	17 17.4	+33 06	4.6	0.7	0.3			833.17	2.0510
TX Her	17 18.6	+41 53	8.5	0.8	0.4	4.9	0	832.80	2.0598
RX Her	18 30.7	+12 36	7.3	0.6	0.5	6.0	0.9	833.41	1.7786
RS Sct	18 49.2	-10 14	8.6	1.2	0.3	$\beta$		833.16	0.6642
$\beta$ Lyr	18 50.1	+33 22	3.3	0.9	0.5	$\beta$		839.83	12.9421
BH Dra	19 03.7	+57 28	8.4	0.9	0.2	7.0	0	833.92	1.8172
V548 Cyg	19 56.9	+54 48	8.9	0.8	0.1	$\beta$		832.99	1.8052
V477 Cyg	20 05.5	+31 59	8.5	0.8	0.2	4.0	0.2	832.84	2.3470
V346 Aql	20 10.0	+10 21	9.0	1.2	0.1	5.0	0	832.95	1.1064
MY Cyg	20 20.1	+33 57	8.7	0.7	0.7	7.2		834.79	4.0052
V836 Cyg	21 21.4	+35 45	8.6	0.7	0.2	$\beta$		833.07	0.6534
EE Peg	21 40.0	+09 11	6.9	0.7	0.2	6.4	0	833.59	2.6282
EK Cep	21 41.4	+69 42	8.0	1.3	0.1	6.4		836.52	4.4278
CM Lac	22 00.1	+44 33	8.5	1.0	0.3	4.0	0	834.01	1.6047
RT Lac	22 01.5	+43 53	8.8	1.1	0.8	$\beta$		833.38	5.0738
ZZ Cep	22 45.0	+68 08	8.6	1.0	0.1	5.1	0	833.73	2.1418
SW Lac	22 53.7	+37 56	8.5	0.8	0.8	W		832.71	0.3207
RT And	23 11.1	+53 01	8.9	0.9	0.3	2.6	0	833.05	0.6289

## Gwiazdy zmienne zaćmieniowe (II)

Dz	U Cep	BX And	DO Cas	RZ Cas	XY Cet	$\beta$ Per	BF Aur	TT Aur	SX Aur	WW Aur	YY CMi	SW Lyn
1	0	0 61	0 68	0	0	0	0	0	0	0	0	0 64
2		22 83	37	20			58	33	21		9	29 93
3	49	44	5 74	39	78	87		67	42	53	19	58
4		5 66	42	59			17	100	63		28	22 86
5	99	27 88	11 79	78			75		84		38	51
6		49	48	98	56	73		33		5	47	15 80
7		10 71	16 85				33	66	5		56	44
8	48	32 93	53	17			92	100	26	58	66	8 73
9		54	22 90	37	34	60			47		75	37
10	97	15 76	59	56			50	33	68		85	2 66
11		37 98	27 95	76				66	89	10	94	31 95
12		59	64	95	12	47	8	99				59
13	47	20 81	32				67		10	63	3	24 88
14		42	1 69	15	90			33	31		13	53
15	96	3 64	38	34		34	25	66	52		22	17 81
16		25 86	6 75	54			83	99	73	15	32	46
17		47	43	73	68				94		41	10 75
18	45	8 69	12 80	93		20	42	33		68	50	39
19		30 91	49				100	66	15		60	3 68
20	94	52	17 86	12	47			99	36		69	32 97
21		13 74	54	32		7	58		57	20	79	61
22		35 96	22 91	51				32	78		88	25 90
23	44	57	59	71	25	94	17	66	99	73	97	54
24		18 79	28 96	91			75	99				19 83
25	93	40	65						20		7	47
26		1 62	33	10	3	81	33	32	41	25	16	12 76
27		23 84	2 70	30			91	65	62		26	41
28	42	46	39	49	81			99	83	78	35	5 70
29		7 68	7 76	69		67	50				44	34 98
30	92	29 90	44	88				32	4		54	63
31		51	13 81		59		8	65	25	30	63	27 92
<b>Mi</b>												
1	57	30	23	2	-50	-118	54	0	86	-9	71	59
2	-51	42	4	10	-91	-64	-38	99	11	-79	34	51
3	-109	49	11	78	-111	3	12	98	-6	-101	78	20
4	32	60	61	86	-152	57	78	63	40	81	42	12
5	24	50	5	74	-93	-75	86	-5	65	-141	-5	39
6	-84	0	54	82	-134	-21	-6	94	-9	41	68	30
7	-92	51	67	70	-76	-154	3	26	16	71	22	57
8	49	1	48	78	-117	-100	69	-9	62	1	95	49
9	-60	13	29	85	-158	-46	-23	89	-13	-69	58	41
10	-68	2	41	73	-99	-178	-15	21	12	-39	12	3
11	73	14	22	81	-140	-124	52	-13	59	-109	84	59
12	65	4	35	69	-82	30	60	52	84	-79	38	22

Gwiazdy zmienne zaćmieniowe (II – c.d.)

Dz	W UMa	TX Uma	AI Dra	U Oph	u Her	TX Her	RX Her	RS Sct	$\beta$ Lyr	BH Dra	V548 Cyg
1	0 33 67	0	0	0	0	0	0	0 66	0	0	0
2	0 33 67		20	68			78	33 99		82	81
3	0 34 67		40		5	6		66			
4	0 34 67	6	60	35			56	32 99		63	61
5	0 34 67		80		10	12		65			
6	0 34 67		99	3			34	31 98		45	42
7	1 34 67	13		71	15	18		64			
8	1 34 67		19				11	31 97		27	22
9	1 34 67		39	39	20	24	89	64			
10	1 34 68	19	59					30 96		9	3
11	1 34 68		79	6	26	30	67	63		90	83
12	1 34 68		99	74				29 96			
13	1 34 68	25			31	36	45	62	94	72	64
14	1 35 68		19	42				28 95			
15	1 35 68		39		36	42	23	61		54	44
16	1 35 68	32	58	10				28 94			
17	1 35 68		78	77	41	48	1	61		36	25
18	2 35 68		98				79	27 93			
19	2 35 68	38		45	46	54		60		17	5
20	2 35 68		18				56	26 93		99	86
21	2 35 69		38	13	51	60		59			
22	2 35 69	44	58	81			34	26 92		81	66
23	2 35 69		78		56	66		58			
24	2 35 69		98	48			12	25 91		62	47
25	2 36 69	51			61	72	90	58			
26	2 36 69		18	16				24 91	88	44	27
27	2 36 69		37	84	66	78	68	57			
28	2 36 69	57	57					23 90		26	8
29	3 36 69		77	51	71	84	46	56			88
30	3 36 69		97					23 89		8	
31	3 36 69	63		19	77	90	24	55		89	69
<b>Mi</b>											
1	11	-116	14	19	67	30	91	66	-561	-39	49
2	14	-153	31	-62	43	20	15	21	-1073	-50	18
3	16	-196	-12	-10	-91	-103	60	11	10	57	-74
4	19	74	5	77	91	93	-16	33	-502	47	75
5	22	-169	2	96	-37	-23	7	22	-914	-46	-36
6	25	-206	19	15	-61	-34	-69	44	-131	-56	-67
7	27	-143	16	34	16	56	-45	33	-542	33	2
8	30	-179	33	-46	-8	46	56	55	-1054	22	-29
9	33	90	50	41	-31	36	-20	10	-271	11	-61
10	2	-153	47	60	45	-81	3	66	-683	-81	8
11	5	-190	64	-21	22	-91	-73	21	100	90	-23
12	8	-126	61	-2	98	-1	-50	10	-312	-2	46

Gwiazdy zmienne zaćmieniowe (II – c.d.)

Dz	V477 Cyg	V346 Aql	MY Cyg	V836 Cyg	EE Peg	EK Cep	CM Lac	RT Lac	ZZ Cep	SW Lac	RT And
1	0	0	0	0 65	0	0	0	0	0	0 32 64 96	0 63
2		11		31 96			60			28 60 92	26 89
3	35	21		61	63				14	25 57 89	52
4		32		27 92			21			21 53 85	14 77
5	69	43	1	57		43	81		28	17 49 81	40
6		53		23 88	26			7		13 45 77	3 66
7		64		53			42		43	9 41 74	29 92
8	4	74		19 84	88					6 38 70	55
9		85	1	49		86	2		57	2 34 66 98	18 80
10	39	96		15 80			63			30 62 94	43
11				45	51			15	71	26 58 90	6 69
12	73	6		11 76			23			23 55 87	32 95
13		17	2	41			84		85	19 51 83	58
14		28		7 72	14	28				15 47 79	21 84
15	8	38		38			44		99	11 43 75	47
16		49		3 68	77			22		7 39 72	9 72
17	43	60	2	34 99			5			4 36 68 100	35 98
18		70		64		71	65		13	32 64 96	61
19	78	81		30 95	40					28 60 92	24 87
20		91		60			26		28	24 56 88	50
21			3	26 91			86	30		21 53 85	13 75
22	12	2		56	3				42	17 49 81	38
23		13		22 87		14	47			13 45 77	1 64
24	47	23		52	65				56	9 41 73	27 90
25		34	3	18 83			7			5 37 70	53
26	82	45		48			68	37	70	2 34 66 98	16 79
27		55		14 79	28	57				30 62 94	41
28		66		44			28		84	26 58 90	4 67
29	16	77	4	10 75	91		88			22 54 86	30 93
30		87		40					99	19 51 83	56
31	51	98		6 71		99	49	44		15 47 79	19 82
<b>Mi</b>											
1	34	45	-172	57	-154	-41	-9	88	-91	21	55
2	-15	42	-67	28	-100	-41	-60	32	21	0	36
3	2	8	-64	38	-9	-185	28	-231	6	23	4
4	-47	6	40	9	45	-185	-23	-287	-96	1	48
5	4	-7	-156	15	-64	-86	26	-242	-97	16	4
6	-45	-9	-52	51	-10	-86	-25	-298	15	27	49
7	6	89	-248	57	-119	13	24	-254	14	10	5
8	-43	87	-144	28	-65	13	-27	-310	-88	21	50
9	-92	85	-40	64	-11	12	82	-365	25	32	31
10	-41	72	-236	5	-120	-331	-29	-321	24	14	50
11	-89	70	-132	41	-66	-332	80	-377	-78	25	32
12	-38	57	72	47	87	-232	-32	-332	-79	8	51