

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 NUMBER 360

Konkoly Observatory
 Budapest
 1969 June 30

Veröffentlichungen der Remeis-Sternwarte Bamberg
 Astronomisches Institut der Universität Erlangen-Nürnberg
 Vol.VIII, No.86

ELEMENTS FOR SONNEBERG VARIABLES (IX)

For 8 Sonneberg-Variables the derivation of elements was convenient by the Bamberg southern sky patrol. We want to mark these elements as preliminary so long there are no photoelectric measurements. We are very grateful for the extension by the Sonneberg plate material, taken by C.Hoffmeister. Miss H. Gessner was so kind to look for eclipses; we thank her very much. S 8455 = V 387 Cas at MVS 5, 12, 1968, was already treated by Miss I.Meinunger, finding also elements not published by her because of their uncertainty. Independently from her, we could now derive at Bamberg the same period published also by R.Weber in the Mainterne-Bulletin (April 1969). It was of great advantage to use plates taken by Mr. I.Paterson of the Mt. John Observatory, New-Zealand.

In all cases they are eclipsing binaries; 6 of them are named already, 2 are suspicious, they also get a BV-number according to our practice.

(S) = Sonneberg (NZ) = New Zealand (M) = Mainterne

S 5585 = CD Apg 1900: $16^h 18^m 00^s$, $-80^\circ 32' 8''$, GCVS 10 $\overline{75}$ -11 $\overline{75}$

Min = JD 242 8693,550 + 0 $\overline{893}$ 660 . E

Minima	E	B-R	Minima	E	B-R
24.....			24.....		
28693,532(S)	0	-0 $\overline{018}$	38615,301(1/2)	11102,5	-0 $\overline{109}$
36728,426(S)	9001	-0,021	38879,449	11398	-0,038
36781,221(S)	9050	+0,048	38884,407	11403,5	+0,005
38475,553	10946	+0,002	,443	11403,5	+0,041
38501,482	10975	+0,014	,454	11403,5	+0,052
38560,419	11041	+0,031	38917,361(1/2)	11440,5	-0,106
38577,334	11060	-0,096	,407	11440,5	-0,060
38587,251+	11071	-0,009	,453	11440,5	-0,014
,296	11071	+0,036	38939,399	11465	-0,037
,341(1/2)	11071	+0,081			

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
38965,291	11494	+0,013	39300,369	11869	-0,031
,338	11494	+0,060	,410	11869	+0,010
38994,228	11526,5	-0,094	39315,245(½)	11885,5	+0,100
39214,523	11773	-0,086	39343,264	11917	-0,032
,599	11773	-0,010	,298	11917	+0,002
39300,322	11869	-0,078	,300	11917	+0,013
,367	11869	-0,033	39656,976+(NZ)	12268	+0,006
			39657,028 (NZ)	12268	+0,058

S 5647 = DU Abs 1900: 17^h10^m02^s, -78°17'17", GCVS 11^m-12^m
 Min = JD 242 8687,375 + 3^d087 910 . E

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
28687,379(S)	0	+0,004	38914,438	3312	-0,094
28693,532(S)	2	-0,019	38917,453(½)	3313	-0,168
28755,329(S)	22	+0,020	,500	3313	-0,121
36728,384(S)	2604	+0,091	38939,304	3320	+0,068
36731,340(S)	2605	-0,040	,350(½)	3320	+0,114
38494,536	3176	-0,041	38942,307	3321	-0,017
38587,296	3206	+0,082	,352+	3321	+0,028
,341(½)	3206	+0,127	39294,342	3435	-0,004
38590,339	3207	+0,037	,388	3435	+0,042
,385	3207	+0,083	39300,410(½)	3437	-0,112
38877,491	3300	+0,013	,456	3437	-0,066
,513	3300	+0,035	39328,230	3446	-0,083
,538	3300	+0,060	,283+	3446	-0,030
38880,474	3301	-0,092	,349	3446	+0,036
38911,384	3311	-0,061	39618,451	3540	-0,125
38914,392	3312	-0,141	39670,967(NZ)	3557	-0,103
			71,014(NZ)	3557	-0,056

S 5931 = CSV 7496 = CAP -57° 8150(8^h48) = HD 151 697(F₀) = BV 1259
 Min = JD 243 6689,430 + 1^d484 060 . E Ampl. 0^m40 EA or EB

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
36689,406(S)	0	-0,024	38915,394	1500	-0,126
36695,356(S)	4	-0,010	,441	1500	-0,079
36721,356(S)	21,5	+0,019	38933,354	1512	+0,025
36730,303(S)	27,5	+0,062	38939,304+	1516	+0,039
36747,400(S)	39	+0,092	,350	1516	+0,085
36779,231(S)	60,5	+0,015	38942,307	1518	+0,074
36790,340(S)	68	-0,006	,351	1518	+0,118
38228,315	1037	-0,085	39289,354(½)	1752	-0,149
38234,313+	1041	-0,023	,401	1752	-0,102
38258,219(½)	1057	+0,138	39301,375	1760	0,000
38501,571	1221	+0,104	39356,233	1797	-0,052
38553,417	1256	+0,008	39614,465+	1971	-0,056
38556,418+	1258	+0,041	,503	1971	-0,009
38577,334(½)	1272	+0,180	39679,927(NZ)	2015	+0,117
38605,299	1291	-0,052	39682,937(½)(NZ)	2017	+0,158
38620,227+	1301	+0,035	,885(NZ)	2017	+0,096
38887,449	1481	+0,126	39972,149(NZ)	2212	-0,022
			40026,937(NZ)	2249	-0,143

S 6471 = CI Eri = CAP $-54^{\circ} 401$ (9^m2) = HD 12 241 (G₀),
GCVS 9^m6 -10^m5

Min = JD 242 8782,475 + 3^d382 880 . E

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
28777,545(S)	-1,5	+0,145	38643,544+	2915	-0,026
28782,506(S)	0	+0,031	38723,313 $\frac{1}{4}$	2938,5	+0,245
28787,554(S)	+1,5	+0,005	39083,335+	3045	-0,009
28875,343(S)	27,5	-0,161	39088,312	3046,5	-0,107
36813,506(S)	2374	+0,074	39435,351 $\frac{1}{2}$	3149	+0,187
36818,465(S)	2375,5	-0,041	39443,360 $\frac{1}{2}$	3151,5	-0,261
38315,459+	2818	+0,028			

S 6654 = AA Hvi 1900: 00^h35^m20^s, $-77^{\circ} 31'1''$, GCVS 11^m5-12^m5

Min = JD 242 8694,700 + 1^d150 272 . E

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
28694,661(S)	0	-0,039	38621,473	8630	-0,074
28762,625(S)	59	+0,059	,518	8630	-0,029
28777,502(S)	72	-0,018	,566 $\frac{1}{2}$	8630	+0,019
28815,439(S)	105	-0,039	38643,401+	8649	-0,001
28837,371(S)	124	+0,034	,447 $\frac{1}{2}$	8649	+0,045
28845,373(S)	131	-0,013	38696,285	8695	-0,030
28890,299(S)	170	+0,053	39326,592 $\frac{1}{2}$	9243	-0,072
36784,535(S)	7033	-0,027	,625+	9243	-0,039
36792,538(S)	7040	-0,077	39378,417	9288	-0,009
,624(S)	7040	+0,009	,440	9288	+0,014
36814,459(S)	7059	-0,011	,462	9288	+0,036
36845,499(S)	7086	-0,028	39409,427 $\frac{1}{2}$	9315	-0,057
38314,412	8363	-0,013	39446,270 $\frac{1}{2}$	9347	-0,022
38367,310	8409	-0,027	39768,392	9627	+0,024
			,437	9627	+0,069

S 7158 = VW Phe = CoD $-42^{\circ} 496$ (9^m5), GCVS 11^m-11^m5

Min = JD 242 8719,650 + 1^d742 160 . E

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
28719,592(S)	0	-0,058	36808,480(S)	4643	-0,019
28726,621(S)	4	+0,002	36815,469(S)	4647	+0,002
28747,506(S)	16	-0,018	38295,451	5496,5	+0,019
28791,556(S)	35,5	+0,059	38694,385	5715,5	-0,002
28802,349(S)	47,5	-0,054	38701,347	5729,5	-0,009
28809,375(S)	51,5	+0,004	38708,345	5733,5	+0,021
28816,429(S)	55,5	+0,089	39761,449	6338	-0,011
28864,321(S)	83	+0,072	39768,438	6342	+0,010
36794,583(S)	4635	+0,022	39790,969(NZ)	6355	-0,108

S 7148 = CSV 5906 = CoD -40° 288 (9^m5) = BV 1260,
Ampl. 0^m5 EW

Min = JD 242 8672,685 + 0^m613 229 5 . E

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
28672,659(S)	0	-0,026	38318,414	15729,5	-0,064
28699,612(S)	44	-0,055	38319,373	15731	-0,025
28722,623(S)	81,5	-0,040	38339,337	15763,5	+0,009
28830,322(S)	257	+0,037	38355,304	15789,5	+0,032
28842,300(S)	276,5	+0,057	38642,493	16258	-0,077
28861,295(S)	307,5	+0,042	38643,497½	16259,5	+0,007
36781,440(S)	13223	+0,021	38694,395+	16342,5	+0,007
36784,492(S)	13228	+0,007	38711,307	16370	+0,055
36788,476(S)	13234,5	+0,005	38726,271½	16394,5	-0,005
36789,442(S)	13236	+0,051	39006,504	16851,5	-0,018
36811,459(S)	13272	-0,008	39361,535	17430,5	-0,047
36842,464(S)	13322,5	+0,029	39389,458+	17476	-0,024
36847,375(S)	13330,5	+0,034	39414,323+	17516,5	+0,003
38283,496	15672,5	-0,028	39444,315½	17565,5	-0,053
38295,451	15692	-0,031	39445,314	17567	+0,026
38315,414+	15724,5	+0,002	39768,437	18094	-0,023

S 8455 = V 387 Cas 1900: 00^h54^m33^s, +58°10', GCVS 13^m-13^m5

Min = JD 242 8523,713 + 1^m608 208 . E

Minima	E	O-C	Minima	E	O-C
24.....			24.....		
28523,693(S)	0	-0,020	38343,432(S)	6106	+0,001
28951,514(S)	266	+0,018	38938,455(M)	6476	-0,013
29231,369(S)	440	+0,045	39123,430(M)	6591	+0,018
29374,465(S)	529	+0,010	39136,265(S)	6599	-0,013
30704,410(S)	1356	-0,033	39210,324(M)½	6645	+0,069
30791,319(S)	1410	+0,033	39353,482(M)	6734	+0,096
34797,331(S)	3901	-0,001	39361,458(M)	6739	+0,031
35371,461(S)	4258	-0,002	39414,459(S)	6772	-0,039
35400,421(S)	4276	+0,011	39443,439(S)	6790	-0,006
36656,414(S)	5057	-0,007	39477,233(M)½	6811	+0,015
36783,553(M)	5136	+0,084	39530,335(M)	6844	+0,046
38044,284(S)	5920	-0,020	39792,461(S)	7007	+0,035
38322,534(S)	6093	+0,010			

Remeis-Observatory Bamberg
1969 June 1

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