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**COORDINATES AND IDENTIFICATIONS FOR  
SONNEBERG VARIABLES ON MVS 255–261**

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The list below is a continuation of a series providing accurate positions and identifications for variables appearing on the *MVS* charts (Hoffmeister 1957). The variables here were first reported by Hoffmeister (Hoffmeister 1936). Details about the identification procedure are contained in the first report of the series (Kinnunen & Skiff 2000).

Table 1: Variables on *MVS* 255–261

AN	GCVS	RA (2000)	Dec	s	GSC	IRAS
1.1936	CI Cas	1 <sup>h</sup> 21 <sup>m</sup> 03 <sup>s</sup> .60	+67°25'48".3	G	4042-0128	
2.1936	CK Cas	1 33 20.02	+68 28 35.5	G	4297-1309	
3.1936	CL Cas	1 42 30.80	+70 25 18.6	G	4314-1645	01386+7010
4.1936	CM Cas	1 52 56.29	+67 56 47.1	G	4310-0268	
5.1936	V392 Cas	2 00 37.26	+69 07 22.0	A		
6.1936	CN Cas	2 21 24.20	+68 06 33.0	G	4311-0495	02172+6752
7.1936	CO Cas	2 22 22.81	+68 30 47.8	A		02181+6817
8.1936	QQ Per*	2 54 40.41	+51 49 28.7	A		
9.1936	NSV 994	2 58 35.48	+46 32 04.5	G	3297-0714	02552+4620
10.1936	BN Per	3 00 55.10	+47 33 02.2	G	3314-0074	
11.1936	BC Per	3 03 31.49	+50 07 43.5	G	3318-0133	
12.1936	BD Per	3 05 07.33	+48 07 46.9	G	3314-2432	
13.1936	QT Per	3 06 09.80	+47 17 01.0	G	3314-1196	
14.1936	BO Per	3 08 03.47	+53 38 26.6	T	3702-0620	
15.1936	V408 Per	3 08 02.87	+47 33 18.1	G	3314-1496	03045+4721
16.1936	BE Per	3 13 48.86	+46 10 16.2	A		
17.1936	HT Per	3 19 19.14	+51 24 38.7	G	3323-0710	
18.1936	V335 Per	3 20 44.62	+46 19 18.7	G	3311-1617	
19.1936	BF Per	3 21 56.82	+46 14 06.5	G	3311-2315	
20.1936	BG Per	3 26 17.86	+50 35 47.4	G	3320-1044	
21.1936	BH Per	3 28 28.13	+50 27 17.9	G	3320-2135	03248+5016
22.1936	V412 Per	3 29 01.11	+49 24 53.6	G	3320-0413	03254+4914
23.1936	BP Per*	3 31 06.72	+49 24 46.7	G	3320-1007	
24.1936	BI Per*	3 32 55.79	+52 44 14.0	G	3703-0513	03292+5234
25.1936	BK Per	3 39 42.57	+52 08 15.5	G	3325-0755	
26.1936	BL Per	3 42 47.10	+48 26 00.2	G	3317-1148	

AN	GCVS	RA (2000)	Dec	s	GSC	IRAS
27.1936	WX Cam*	3 <sup>h</sup> 49 <sup>m</sup> 03 <sup>s</sup> .77	+53° 10'59".2	T	3717-0478	
28.1936	CF Aur	4 54 32.61	+33 56 21.8	G	2395-0190	
29.1936	DD Aur*	4 56 31.59	+33 57 37.4	G	2395-1403	
30.1936	DE Aur	4 56 49.49	+36 47 08.7	G	2399-1309	
31.1936	DF Aur	4 58 54.15	+35 13 51.1	G	2396-0366	04555+3509
32.1936	EI Aur	5 03 14.80	+32 45 10.8	G	2392-0102	
33.1936	DI Aur*	5 06 03.81	+37 25 06.2	G	2401-0673	05026+3721
34.1936	DK Aur*	5 06 30.15	+34 37 41.0	G	2397-0721	
35.1936	II Aur	5 06 41.74	+34 40 54.8	A		
36.1936	DL Aur	5 07 22.77	+32 28 51.7	G	2393-0525	05041+3224
37.1936	DS Aur	5 10 27.64	+33 59 38.4	G	2397-0362	
	DU Aur*	5 11 14.54	+31 19 50.0	A		05080+3116
38.1936	DW Aur	5 14 25.83	+30 01 03.0	A		
39.1936	DZ Aur	5 21 01.08	+38 28 06.0	G	2909-0815	05175+3825
40.1936	EE Aur	5 20 55.48	+35 05 21.0	G	2398-0293	05176+3502
41.1936	EF Aur	5 21 21.33	+38 05 22.9	G	2909-1418	05179+3802
42.1936	EH Aur	5 33 47.09	+34 36 22.7	G	2412-0629	
43.1936	IY Tau	5 42 23.13	+27 56 47.4	G	1869-1239	
44.1936	AX Tau	5 49 43.51	+24 06 56.0	G	1862-2035	05466+2406
45.1936	BL Aur	5 50 23.32	+30 19 47.6	G	2405-1694	
46.1936	AZ Tau	5 51 41.90	+28 18 25.2	G	1875-2114	
47.1936	CS Tau	5 54 08.14	+24 51 09.9	G	1867-1212	05509+2450
48.1936	BE Tau	5 56 08.43	+24 51 10.5	G	1867-1213	
49.1936	EN Tau	5 56 43.48	+25 14 18.3	T	1867-0337	
50.1936	BP Aur	6 01 22.05	+28 33 05.6	G	1876-0140	
51.1936	BQ Aur*	6 01 43.71	+29 27 16.5	G	1876-0074	05585+2927
52.1936	BU Aur	6 09 57.73	+31 24 26.9	T	2420-0258	
53.1936	EP Aur	6 11 32.12	+31 28 52.5	T	2420-0176	
54.1936	BY Mon	6 26 49.67	+03 39 58.8	G	0137-0946	06241+0341
55.1936	DQ Mon	6 31 44.55	+06 57 40.9	G	0158-1085	
56.1936	CR Mon	6 31 24.41	-00 30 58.8	G	4798-0788	
57.1936	NSV 3014	6 32 07.89	+03 08 40.4	G	0150-1044	
58.1936	CT Mon*	6 32 54.39	+05 07 54.5	G	0154-1771	06302+0510
59.1936	DR Mon	6 33 01.83	+06 08 03.7	G	0158-1250	
60.1936	CU Mon	6 32 46.79	+00 02 35.3	G	0146-1103	
61.1936	CW Mon	6 36 54.55	+00 02 17.7	A		
62.1936	CX Mon*	6 37 18.48	+00 55 16.3	T	0146-1374	
63.1936	BZ Mon	6 37 38.20	+04 57 45.6	G	0155-1999	
64.1936	CY Mon	6 38 31.86	-01 36 38.4	G	4799-0105	
65.1936	CD Mon	6 40 30.42	-01 04 44.3	G	4799-1815	
66.1936	V560 Mon	6 46 28.87	-00 15 35.2	G	4800-0738	
67.1936	FY Mon	6 47 08.67	+03 15 33.1	G	0152-2179	
68.1936	DE Mon	6 47 16.38	+00 13 39.0	G	0148-2610	
69.1936	DF Mon*	6 47 35.99	+00 40 56.3	G	0148-1445	
70.1936	V513 Mon	6 47 45.90	+01 06 40.4	A		
71.1936	DG Mon	6 48 05.19	+00 32 17.5	G	0148-1457	
72.1936	DH Mon	6 49 23.66	+04 04 28.8	G	0156-1807	
73.1936	CH Mon	6 51 38.12	+05 56 12.4	G	0160-0530	
74.1936	CK Mon	6 53 46.80	+05 36 41.9	G	0157-0605	
75.1936	DM Mon	6 53 51.96	+01 53 43.8	G	0153-0327	
76.1936	CM Mon	6 56 32.89	+04 39 41.9	A		
77.1936	CN Mon	6 56 35.41	-00 31 12.7	A		
78.1936	DN Mon	6 57 15.78	+04 56 14.5	G	0157-2400	
79.1936	DO Mon*	7 00 00.46	+02 56 06.7	G	0166-0280	
80.1936	CP Mon	7 00 11.91	+04 08 25.3	T	0170-1144	
81.1936	DT Mon	6 45 20.31	-01 42 46.9	A		
82.1936	DU Mon	6 45 18.19	-09 03 04.6	A		

AN	GCVS	RA (2000)	Dec	s	GSC	IRAS
83.1936	DV Mon	6 <sup>h</sup> 45 <sup>m</sup> 19 <sup>s</sup> .40	-08°50'19".9	G	5378-2034	
84.1936	DW Mon	6 47 51.37	-02 41 19.0	T	4804-2214	
85.1936	DY Mon	6 48 56.32	-06 03 54.5	A		
86.1936	NSV 3227*	6 49 53.72	-05 02 30.7	T	4808-0946	
87.1936	EE Mon	6 50 48.69	-07 58 50.6	G	5379-0332	
88.1936	EF Mon	6 50 47.63	-08 49 53.1	G	5379-1903	06484-0846
89.1936	EL Mon	6 54 45.84	-06 40 05.7	G	4813-0105	
90.1936	EN Mon	6 55 40.14	-05 31 02.4	G	4809-0418	
91.1936	EO Mon	6 55 49.12	-06 53 33.7	G	4813-1873	
92.1936	EQ Mon	6 57 37.19	-09 48 02.9	A		
93.1936	ER Mon	6 58 01.34	-08 02 46.2	A		06556-0758
94.1936	FZ Mon	6 59 22.58	-07 58 00.7	G	5380-0337	
95.1936	ES Mon	6 59 48.69	-07 25 11.5	G	4813-1003	
96.1936	ET Mon	7 00 52.89	-07 24 18.4	A		
97.1936	EU Mon	7 01 20.22	-05 31 45.3	A		
98.1936	EW Mon	7 01 30.57	-08 01 11.1	G	5381-0135	
99.1936	EY Mon	7 02 26.28	-07 35 43.6	A		
100.1936	FG Mon	7 07 08.56	-07 47 42.5	G	5381-0662	
101.1936	FH Mon	7 08 49.40	-02 32 00.6	G	4819-1608	
102.1936	FL Mon	7 11 51.42	-08 39 46.3	G	5394-3521	
103.1936	FM Mon	7 12 19.73	-09 25 32.4	G	5398-1684	
104.1936	FN Mon	7 13 46.61	-09 09 47.0	G	5394-1573	
105.1936	NSV 3481	7 14 51.21	-05 28 51.2	G	4823-0271	
106.1936	FO Mon	7 15 17.28	-06 12 55.2	G	4828-0032	07128-0607
107.1936	FQ Mon	7 16 41.23	-06 56 49.2	A		
108.1936	V634 Mon	7 17 10.07	-01 44 18.8	T	4816-1016	
109.1936	CQ Hya	8 37 45.20	+02 21 24.0	G	0215-0724	
110.1936	GL Hya	8 40 59.23	+02 37 22.4	G	0215-0653	
111.1936	CR Hya	8 41 17.64	+02 30 36.8	G	0215-0575	
112.1936	GN Hya	8 48 18.53	+02 07 15.2	G	0216-1527	
113.1936	UW Cnc	8 50 59.32	+07 36 50.6	G	0810-0614	08482+0748
114.1936	CT Hya	8 51 07.38	+03 08 34.0	A		
115.1936	CU Hya	8 54 20.59	+03 42 23.2	A		
116.1936	GO Hya	8 54 53.50	+06 26 12.9	G	0225-0768	
117.1936	CW Hya	8 55 07.81	+03 39 24.9	A		
118.1936	UX Cnc	9 03 29.51	+07 35 37.9	T	0812-0842	
119.1936	CX Hya	9 06 12.79	+01 41 00.2	G	0226-1311	09036+0152
120.1936	AP Cnc	9 06 52.26	+08 36 30.0	G	0812-1758	
121.1936	CY Hya	9 10 20.88	+05 20 51.2	G	0233-1240	
122.1936	SU CrB	16 23 36.33	+36 25 21.5	G	2586-1210	
123.1936	GR Her	16 26 03.04	+31 47 40.1	G	2581-1305	
124.1936	GS Her	16 28 26.62	+32 08 07.5	G	2581-0397	
125.1936	HU Her	16 29 19.85	+31 09 55.1	G	2581-1896	
126.1936	HT Her	16 29 07.88	+34 13 46.6	G	2584-0847	
127.1936	GT Her	16 30 18.59	+34 27 34.9	G	2584-0908	
128.1936	GU Her	16 32 05.52	+30 23 09.7	T	2581-1840	
129.1936	GV Her	16 34 54.79	+35 15 51.2	G	2587-1676	
130.1936	GW Her	16 36 58.13	+31 44 09.5	G	2582-1571	
131.1936	GZ Her	16 38 31.40	+33 02 31.2	G	2585-0526	
132.1936	HH Her	16 38 40.47	+31 38 44.1	G	2582-1131	
133.1936	HI Her	16 43 50.20	+37 27 42.3	G	2588-2492	
134.1936	HK Her	16 45 09.40	+36 18 49.8	A		
135.1936	HL Her	16 49 39.84	+34 58 19.2	A		
136.1936	HM Her	16 51 16.03	+30 26 59.5	A		
137.1936	HW Her	16 53 02.26	+32 46 41.1	G	2593-0969	
138.1936	HX Her	16 53 22.03	+33 16 29.9	G	2593-0469	
139.1936	HY Her	16 54 34.70	+33 49 31.3	T	2597-0338	16527+3354

AN	GCVS	RA (2000)	Dec	s	GSC	IRAS
140.1936	HO Her	16 <sup>h</sup> 57 <sup>m</sup> 20 <sup>s</sup> .81	+30°21'27".6	G	2590-0839	
141.1936	HP Her	16 56 50.26	+32 20 08.9	A		
142.1936	HZ Her*	16 57 49.83	+35 20 32.6	G	2598-1298	
143.1936	HQ Her	16 58 31.98	+29 54 23.9	A		
144.1936	HR Her	16 58 43.98	+33 35 07.1	A		
145.1936	II Her	16 59 10.84	+38 03 51.9	T	3071-1259	
146.1936	IK Her	17 00 06.79	+31 58 14.4	G	2594-1492	
215.1928	IL Her	17 00 48.67	+30 14 15.6	A		
147.1936	IN Her	17 02 07.56	+34 12 50.3	T	2598-0334	
148.1936	IM Her	17 02 10.80	+32 11 53.4	G	2594-1607	
149.1936	IO Her*	17 02 28.96	+36 44 23.5	T	2602-0079	
150.1936	V365 Her	17 05 39.90	+21 30 58.6	G	1547-0957	
151.1936	V456 Her	17 06 47.61	+21 06 18.3	G	1547-0595	
152.1936	V458 Her	17 08 30.95	+18 31 14.0	G	1539-1217	
153.1936	V462 Her	17 11 10.07	+23 00 10.2	G	2061-0364	
154.1936	V467 Her	17 12 50.82	+25 01 48.5	G	2065-0082	
155.1936	V469 Her	17 14 10.62	+19 45 29.0	G	1544-1671	
156.1936	V476 Her	17 20 48.81	+22 05 52.1	A		
157.1936	FO Her	17 20 59.86	+22 26 52.2	T	1549-1075	F17188+2229
158.1936	V393 Her	17 21 04.03	+26 55 51.1	G	2082-1774	
159.1936	V484 Her*	17 25 31.96	+20 47 05.4	G	1549-0389	
160.1936	V486 Her	17 26 38.39	+26 56 17.8	G	2083-1003	
161.1936	V488 Her	17 27 02.68	+22 53 05.7	G	2075-1920	
162.1936	V490 Her	17 29 38.79	+22 49 10.9	G	2075-0721	
163.1936	V491 Her	17 30 09.13	+20 55 53.1	G	1550-0271	
164.1936	V492 Her	17 30 04.50	+25 23 15.9	G	2079-1189	
165.1936	V493 Her	17 30 16.43	+23 37 17.5	G	2075-0957	
166.1936	NS Her*	17 31 41.49	+21 49 55.1	T	1550-2532	F17295+2152
167.1936	V494 Her	17 32 13.05	+21 23 13.7	G	1550-1400	
	LU Her*	17 32 35.57	+26 12 25.7	G	2079-0303	
168.1936	GP Her	17 33 21.92	+23 35 15.6	G	2075-0650	17312+2337
169.1936	V497 Her	17 33 53.82	+22 37 06.1	G	2075-2146	
170.1936	V503 Her	17 36 40.46	+23 18 12.0	T	2076-1528	
171.1936	V509 Her	17 39 20.35	+22 44 48.4	G	2076-0661	17372+2246
172.1936	V510 Her	17 39 36.76	+21 15 05.0	G	1563-0980	
173.1936	V518 Her	17 42 15.95	+19 41 45.2	G	1559-0401	F17401+1943
174.1936	LX Her	17 43 18.76	+28 15 15.7	G	2089-1389	
175.1936	EM Her	17 52 01.97	+29 40 11.3	G	2102-1861	17500+2940
176.1936	EQ Her*	17 56 35.66	+24 48 47.9	G	2094-2862	17545+2449
177.1936	ET Her	17 58 09.90	+29 02 58.1	G	2102-1038	17562+2903
178.1936	EX Her	18 04 17.60	+28 54 54.1	G	2103-1343	F18023+2854
179.1936	FG Her	18 05 38.58	+31 00 18.2	G	2621-1187	
180.1936	MO Her	18 08 36.18	+29 34 44.8	A		
181.1936	MY Her	18 09 30.80	+27 20 54.3	G	2100-1011	18075+2720
182.1936	MP Her	18 10 15.28	+31 25 09.1	G	2622-1191	
183.1936	FK Her	18 11 17.97	+29 57 48.6	G	2104-0369	
184.1936	MQ Her*	18 11 22.78	+29 11 10.0	A		
185.1936	FL Her	18 11 57.79	+32 27 54.0	T	2626-1277	
186.1936	MR Her	18 15 30.74	+28 15 27.5	G	2104-2233	18135+2814
187.1936	FM Her	18 16 07.06	+29 06 58.1	G	2104-1651	18141+2905
188.1936	MS Her	18 16 53.43	+27 39 46.2	G	2101-0313	
189.1936	V579 Oph*	18 25 32.39	+07 45 20.4	A	1023-0787	
190.1936	V580 Oph	18 25 38.12	+07 36 37.2	A		
191.1936	V581 Oph	18 25 39.50	+08 45 04.6	G	1023-1206	
192.1936	V582 Oph	18 26 40.56	+07 45 42.9	A		
193.1936	V583 Oph	18 26 42.54	+07 03 27.6	A		
194.1936	BK Ser	18 27 03.74	+05 16 43.0	G	0441-0625	

AN	GCVS	RA (2000)	Dec	s	GSC	IRAS
195.1936	V586 Oph*	18 <sup>h</sup> 27 <sup>m</sup> 15.16	+04°17'05".1	T	0441-0699	
196.1936	V585 Oph	18 27 09.13	+07 31 27.7	T	1023-2345	
197.1936	V584 Oph	18 26 58.73	+10 12 31.1	A		
198.1936	BL Ser	18 27 24.38	+05 03 15.7	G	0441-1980	
199.1936	V588 Oph	18 27 17.55	+09 01 57.1	A		
200.1936	V587 Oph	18 27 17.53	+09 35 45.3	G	1027-2245	
201.1936	V589 Oph	18 27 30.21	+09 06 35.9	G	1023-1016	
202.1936	V590 Oph	18 27 31.35	+09 12 26.3	G	1023-0111	
203.1936	BM Ser	18 27 57.81	+04 34 36.4	A		
204.1936	V591 Oph	18 27 45.28	+10 07 30.4	A		18253+1005
205.1936	V593 Oph*	18 27 57.36	+08 23 07.0	T	1023-1019	
206.1936	V592 Oph	18 27 55.21	+09 48 04.2	G	1027-2002	
207.1936	NSV 10870	18 28 14.51	+12 19 51.1	G	1031-1766	
208.1936	V594 Oph*	18 28 34.22	+07 36 11.8	A		
209.1936	V595 Oph	18 28 32.70	+09 44 16.3	G	1027-2054	18261+0942
210.1936	BN Ser	18 28 51.44	+06 17 31.7	G	0445-1312	
211.1936	V596 Oph*	18 28 50.46	+06 59 05.0	A		
212.1936	V597 Oph*	18 28 49.75	+09 31 52.7	T	1027-2087	
213.1936	BO Ser	18 29 05.14	+05 25 46.8	A		
214.1936	V598 Oph	18 28 54.70	+08 42 43.1	G	1023-0944	
215.1936	V600 Oph	18 28 58.98	+08 19 32.1	G	1023-0849	
216.1936	V599 Oph*	18 28 48.67	+11 47 09.1	T	1031-1269	

## Notes:

BQ Aur	Lee 186.
DD Aur	outside position error-ellipse of IRAS 04532+3352.
DI Aur	CGCS 847.
DK Aur	CSS 120.
DU Aur	SV* R 155.
WX Cam	epoch 1991.6.
EQ Her	also GSC 2094-1810.
HZ Her	BPS BS 16552-0071 = FBS 1656+354.
IO Her	epoch 1991.7.
LU Her	SV* R 379.
MQ Her	GCVS 4.1 position 3'1 in error.
NS Her	epoch 1991.7.
V484 Her	GCVS 4.1 position 3'3 in error.
CT Mon	[MJD95] J063254.40+050754.6.
CX Mon	epoch 1991.9.
DF Mon	misidentified in Skiff (1999).
DO Mon	also GSC 0166-2396.
V579 Oph	eastern component of a close double.
V586 Oph	large proper motion: +0''20/-0''11.
V593 Oph	epoch 1991.9.
V594 Oph	not IRAS 18261+0734.
V596 Oph	outside position error-ellipse of IRAS 18264+0657.
V597 Oph	epoch 1991.8.
V599 Oph	epoch 1991.7.
BI Per	CGCS 514.
BP Per	FBFTA Per II 102.
QQ Per	not IRAS 02510+5137.
NSV 3227	HD 295604.

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