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**COORDINATES AND IDENTIFICATIONS FOR
SONNEBERG VARIABLES ON MVS 281–286**

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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 described by Hoffmeister (1944). Details about the identification procedure and table layout are contained in the first report of our series (Kinnunen & Skiff 2000).

Table 1: Variables on *MVS* 281–286

Somme.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3543	TY Ari	2 ^h 08 ^m 40 ^s .27	+25°13′06″.8	G	1761-1085	
S 3544	TV Ari	2 11 08.69	+20 26 59.8	G	1220-1677	
	SY Ari*	2 17 34.09	+21 42 59.4	G	1220-0669	
S 3545	NSV 1754	4 53 08.59	−03 29 52.8	T	4741-0842	
S 3546	NSV 1781	4 56 51.89	−06 32 08.6	T	4749-0626	04544–0636
	V1008 Ori*	4 57 06.30	−01 47 14.9	G	4737-0705	04545–0151
	V1009 Ori*	5 05 34.62	−02 38 06.8	G	4754-0706	
S 3547	V1010 Ori	5 06 35.25	−03 01 11.7	G	4754-1029	
S 3548	V1011 Ori	5 10 10.85	−02 54 05.2	G	4755-1043	05076–0257
S 3549	NSV 1855	5 09 57.72	−09 36 56.6	G	5334-0355	
	V1012 Ori*	5 11 33.75	−02 22 29.2	A		
	V531 Ori*	5 12 20.53	−02 55 52.4	G	4755-0553	
S 3550	V534 Ori*	5 20 25.75	−05 47 06.5	G	4764-1259	
S 3551	V1014 Ori	5 23 02.90	−06 30 46.2	G	4765-0654	05206–0633
S 3552	EP Gem	6 36 47.41	+14 54 01.8	G	0745-0018	
S 3553	IN Mon*	6 39 29.90	+11 24 31.5	G	0754-2314	
S 3554	EV Gem	6 40 55.23	+12 34 54.2	G	0754-1750	06381+1237
S 3555	IS Mon*	6 45 14.20	+10 05 47.0	T	0750-0569	
S 3556	FG Gem	6 47 49.65	+16 51 47.6	T	1330-0912	
S 3557	FF Gem	6 47 50.23	+17 06 28.7	T	1334-0804	
S 3558	EF Gem	6 51 01.82	+17 29 54.9	G	1335-0815	
S 3559	FO Gem	6 53 28.52	+12 53 49.0	A		
S 3560	IT Mon	6 54 00.10	+09 00 06.8	G	0748-1041	06513+0903

Table 1: Variables on *MVS* 281–286 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3561	IV Mon	6 ^h 56 ^m 21 ^s .84	+10° 57' 28".8	T	0752-0921	06536+1101
S 3562	FR Gem	6 56 52.05	+16 56 14.0	G	1348-1467	
S 3563	FT Gem	6 57 24.61	+13 42 06.6	G	0760-0326	
S 3564	IZ Mon	7 00 44.84	+08 49 03.1	T	0748-0575	
	FY Gem*	7 01 32.83	+14 55 18.3	G	0761-1999	06587+1459
	FZ Gem*	7 01 35.26	+15 01 00.4	A		
S 3565	KL Mon	7 03 46.14	+08 54 26.4	T	0749-1271	07010+0858
S 3566	GH Gem*	7 04 12.78	+12 03 34.3	G	0757-2117	
S 3567	GI Gem	7 04 40.85	+13 26 12.5	G	0761-0680	
S 3568	GK Gem	7 04 57.43	+13 56 47.8	G	0761-1545	
S 3569	KM Mon	7 04 42.12	+09 01 28.4	A		
S 3570	GL Gem	7 04 59.46	+10 51 04.5	T	0753-2063	07022+1055
S 3571	GN Gem	7 06 14.82	+11 30 18.8	G	0757-0971	07034+1134
S 3572	GO Gem*	7 07 34.58	+17 01 46.7	T	1349-0052	07046+1706
S 3573	GP Gem	7 09 29.19	+12 58 04.0	G	0770-0564	
S 3574	AH CMi*	7 10 44.96	+10 59 09.4	G	0766-0093	
S 3575	AN Leo	11 23 22.45	+06 38 05.1	T	0270-0519	
S 3576	AQ Leo	11 23 55.28	+10 18 59.3	G	0858-0781	
S 3577	AS Leo	11 29 11.24	+09 32 11.6	G	0856-0821	
S 3578	AX Leo	11 33 03.79	+12 09 13.5	T	0859-0119	
	ZZ Leo*	11 36 54.82	+09 31 45.3	T	0857-0229	
	AA Leo*	11 39 14.22	+10 19 38.3	T	0860-0368	
	ST Leo	11 38 32.67	+10 33 41.8	T	0860-0138	
S 3579	OW Her	18 03 00.85	+36 28 45.9	G	2633-0352	
S 3580	QS Her	18 13 18.68	+34 55 18.0	T	2630-0384	18115+3454
S 3581	QT Her	18 13 36.24	+39 08 17.6	G	3103-0977	18119+3907
S 3582	HT Lyr*	18 15 12.08	+38 18 08.0	A		
S 3583	HU Lyr	18 15 34.96	+36 51 39.4	T	2634-0559	18138+3650
S 3584	IM Lyr	18 19 04.20	+38 40 25.1	G	3103-1144	
S 3585	IS Lyr	18 25 29.61	+31 33 05.4	G	2623-0048	18236+3131
S 3586	IT Lyr	18 25 59.74	+31 29 50.0	T		
S 3587	IU Lyr	18 25 53.86	+35 33 40.4	G	2631-0287	18241+3531
S 3588	IV Lyr	18 27 11.50	+33 49 51.2	G	2632-1789	18253+3347
	KL Lyr*	18 30 13.33	+37 29 39.1	A		
S 3589	KT Lyr	18 32 42.26	+32 58 55.4	A		
S 3590	KZ Lyr	18 34 13.18	+32 35 42.5	A		
S 3591	KY Lyr*	18 34 17.04	+34 03 02.2	G	2632-0049	18324+3400
S 3592	LM Lyr	18 35 36.38	+39 29 42.9	G	3109-2418	18339+3927
S 3593	GH Cas	1 49 03.38	+56 16 26.8	G	3692-2619	
S 3594	CI Per	2 05 02.20	+57 08 34.8	G	3693-1900	
S 3595	CP Per	2 08 08.62	+52 00 17.5	A		
S 3596	CX Per	2 14 47.90	+51 48 18.5	A		02114+5134
S 3597	CY Per	2 15 01.58	+54 13 08.1	A		
S 3598	DD Per	2 15 19.37	+53 10 15.0	A		
S 3599	DL Per	2 25 11.24	+51 55 20.3	A		02217+5141
S 3600	DP Per	2 27 48.89	+57 05 51.8	G	3695-1428	02242+5652

Table 1: Variables on *MVS* 281–286 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3601	DR Per	2 28 25.87	+57 10 06.9	A		02248+5656
S 3602	GN Cas	2 30 58.69	+60 48 05.9	A		
S 3603	DV Per	2 32 36.68	+53 09 31.2	A		
S 3604	EH Per	2 37 38.39	+52 58 41.0	G	3687-1876	02341+5245
S 3605	EK Per	2 40 13.05	+56 11 42.2	A		02366+5558
S 3606	GQ Cas	2 44 19.01	+60 55 55.7	G	4047-1797	02404+6043
S 3607	GS Cas*	2 51 12.32	+59 13 49.9	T	3712-1849	
S 3608	EP Per	2 55 11.57	+54 25 46.7	A		02515+5413
S 3609	EQ Per	2 55 58.62	+52 10 24.6	A		
	ER Per*	2 56 55.76	+54 38 35.8	T	3705-0629	
S 3610	NSV 12012	19 25 42.43	+08 00 26.0	A		
S 3611	V610 Aql*	19 27 28.94	+07 11 34.7	A		
S 3612	V611 Aql	19 27 39.99	+11 48 45.5	G	1063-0715	
S 3613	NSV 12082	19 29 45.39	+07 44 22.6	A		
S 3614	V613 Aql	19 30 42.43	+07 47 40.7	G	1055-1263	
S 3615	V616 Aql	19 31 36.12	+10 49 07.4	G	1059-2485	
S 3616	V617 Aql*	19 32 01.1	+12 34 46	S		
S 3617	V618 Aql	19 32 22.82	+11 59 03.3	A		19300+1152
S 3618	V533 Aql	19 32 33.29	+11 02 30.5	A		19301+1056
S 3619	V629 Aql	19 35 29.63	+09 12 36.2	A		
S 3620	V634 Aql	19 36 40.44	+07 02 42.2	A		
S 3621	V632 Aql	19 36 10.32	+15 28 47.7	G	1602-0910	19338+1522
S 3622	V636 Aql*	19 37 08.9	+07 18 20	S		
S 3623	V639 Aql	19 37 41.39	+08 16 47.9	A		
S 3624	NSV 12241	19 38 54.89	+06 19 58.4	A		
S 3625	V644 Aql	19 38 32.48	+11 54 12.8	A		
S 3626	V646 Aql	19 39 02.32	+08 20 24.7	A		19366+0813
S 3627	NSV 12272	19 40 02.84	+15 03 22.1	G	1602-0762	19377+1456
S 3628	V651 Aql	19 40 47.47	+06 29 04.7	A		
S 3629	V652 Aql	19 40 26.80	+08 23 48.2	A		19380+0816
S 3630	V653 Aql	19 40 39.46	+10 02 32.7	A		19382+0955
S 3631	V654 Aql	19 42 01.48	+06 15 38.1	G	0491-1305	
S 3632	V655 Aql	19 42 03.49	+07 46 02.3	A		19396+0738
S 3633	V656 Aql	19 42 09.9	+07 09 56	S		19397+0702
S 3634	V657 Aql*	19 42 21.93	+15 45 58.8	G	1602-1676	19400+1538
S 3635	V658 Aql	19 42 39.00	+15 45 58.8	A		19403+1538
S 3636	V659 Aql	19 43 04.55	+15 11 07.8	A		
S 3637	V661 Aql	19 43 44.17	+06 04 10.7	G	0491-2836	19412+0556
S 3638	V662 Aql*	19 43 52.21	+05 37 17.7	G	0487-0112	19413+0529
S 3639	V663 Aql	19 44 02.58	+05 36 41.5	A		19415+0529
S 3640	V665 Aql*	19 44 17.37	+06 06 02.9	G	0491-2675	
S 3641	V668 Aql	19 45 00.67	+05 51 28.0	A		
S 3642	V670 Aql	19 45 07.68	+09 53 58.1	T	1061-0365	19427+0946
	NR Aql*	19 45 21.53	+09 53 32.5	A		
	V672 Aql*	19 45 37.69	+08 01 17.1	T	1057-1390	
3643	NSV 12375	19 45 31.01	+11 36 30.7	G	1065-0158	

Table 1: Variables on *MVS* 281–286 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3644	V673 Aql	19 45 37.89	+10 16 32.9	A		19432+1009
S 3645	V676 Aql*	19 46 42.78	+06 24 45.5	A		
S 3646	V678 Aql	19 46 58.77	+15 25 23.4	G	1615-2628	19446+1517
S 3647	V680 Aql	19 47 38.37	+05 35 44.0	G	0488-0307	19451+0528
S 3648	V679 Aql	19 47 14.10	+15 18 42.3	T	1615-1287	19449+1511
S 3649	V690 Aql	19 49 32.95	+09 07 59.1	A		
S 3650	V696 Aql	19 50 17.65	+14 41 59.1	A		19479+1434
S 3651	V697 Aql	19 50 52.25	+05 44 04.3	A		
S 3652	V1054 Aql*	19 52 18.21	+11 55 41.0	T	1066-0906	
S 3653	V710 Aql	19 52 51.96	+09 20 30.6	A		
S 3654	V714 Aql	19 54 06.35	+07 53 33.0	G	1058-0244	
	V715 Aql*	19 54 23.63	+08 00 18.2	G	1058-0562	
S 3655	V718 Aql	19 54 45.15	+14 09 58.2	G	1070-2636	19524+1402
S 3656	V721 Aql	19 55 36.18	+08 23 20.6	A		
S 3657	V728 Aql	19 57 00.29	+06 18 36.1	G	0493-2928	
S 3658	V730 Aql	19 57 03.09	+11 48 30.2	G	1079-2043	19546+1140
S 3659	V729 Aql	19 56 50.69	+13 17 50.3	A		
S 3660	V740 Aql	19 58 31.50	+05 44 05.1	A		
S 3661	V741 Aql	19 58 35.47	+08 05 29.8	A		
S 3662	V743 Aql	19 58 44.06	+09 57 12.1	A		
S 3663	V746 Aql	19 58 58.53	+11 35 06.3	A		
S 3664	V750 Aql	20 00 05.51	+10 21 01.8	G	1075-0855	19576+1012
S 3665	V753 Aql	20 00 08.15	+10 15 21.7	A		
S 3666	V756 Aql	20 00 20.74	+13 04 12.4	A		
S 3667	V764 Aql	20 01 31.88	+05 32 58.1	A		
S 3668	NSV 12745	20 03 30.62	+10 30 55.0	T		20011+1022
S 3669	V771 Aql	20 03 27.94	+13 11 07.6	A		
S 3670	V772 Aql	20 03 58.61	+11 38 41.3	A		
S 3671	V775 Aql	20 04 29.48	+08 30 34.4	A		20020+0821
S 3672	V776 Aql	20 04 34.34	+08 29 19.6	G	1072-1532	20021+0820
S 3673	V774 Aql	20 04 43.42	+11 41 26.4	T	1080-1097	
S 3674	V777 Aql	20 05 11.62	+07 41 28.2	G	1072-2324	
	V438 Aql*	20 05 01.46	+07 41 12.9	G	1072-1623	20025+0732
S 3675	V780 Aql	20 06 27.74	+08 19 26.3	G	1072-0788	20040+0810
S 3676	V784 Aql	20 07 07.19	+13 29 59.0	A		
S 3677	WX Sge*	19 39 25.08	+17 08 44.8	G	1606-1351	19371+1701
S 3678	V664 Aql*	19 43 45.96	+15 13 42.5	A		
S 3679	GM Vul	19 45 37.84	+22 51 13.7	A		
S 3680	CQ Vul*	19 46 01.62	+24 14 21.3	G	2139-1354	
S 3681	DS Sge	19 46 26.75	+17 03 31.9	A		
S 3682	CS Vul	19 47 24.30	+19 40 22.4	T	1623-0759	
S 3683	EV Vul*	19 51 38.40	+23 53 16.9	T	2140-1051	19495+2345
S 3684	V1060 Aql	19 53 37.95	+15 08 10.8	A		
S 3685	AM Sge*	19 53 45.18	+19 22 31.9	A		

Table 1: Variables on *MVS* 281–286 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3686	DV Sge	19 55 53.90	+16 22 13.6	A		
	DW Sge*	19 55 54.31	+19 32 36.6	A		
	DF Vul*	19 57 56.9	+22 40 58	S		19558+2232
	EI Sge*	19 59 07.51	+19 27 53.1	A		
S 3687	V755 Aql	20 00 07.26	+14 42 28.7	A		
S 3688	BC Sge	20 00 23.36	+16 16 04.9	A		19580+1607
S 3689	NSV 12688	20 01 04.56	+16 21 43.6	A		
S 3690	EM Sge	20 01 19.95	+20 54 33.5	A		19591+2046
S 3691	HR Vul	20 02 25.15	+22 03 33.3	A		
S 3692	BL Sge*	20 04 21.63	+17 48 36.4	A		20020+1739
S 3693	BR Sge	20 06 26.66	+21 13 57.6	A		
	DK Vul*	20 06 33.96	+24 26 00.0	T	2158-0309	
S 3694	DE Sge	20 07 13.50	+20 50 11.1	G	1629-0176	
S 3695	V1095 Aql	20 08 05.53	+15 16 45.0	T	1618-1418	20057+1507
S 3696	V1096 Aql	20 08 45.25	+14 54 33.7	A		
S 3697	ES Sge	20 08 53.63	+17 31 40.7	A		
S 3698	BZ Sge	20 10 12.91	+19 30 57.0	G	1626-1080	
S 3699	CF Sge	20 11 03.04	+20 02 06.6	A		
S 3700	HX Vul	20 11 00.26	+22 51 42.9	A		
S 3701	CH Sge	20 11 22.38	+19 28 51.0	A		
S 3702	FG Sge	20 11 56.06	+20 20 04.4	T	1626-0619	
S 3703	CK Sge	20 12 14.39	+19 19 10.8	G	1626-0917	
S 3704	HY Vul	20 12 16.76	+22 06 02.1	A		
S 3705	FM Sge*	20 14 09.86	+18 48 00.4	G	1626-0015	20119+1838
S 3706	CP Sge	20 14 05.90	+18 37 28.0	G	1622-0128	
S 3707	CX Sge	20 14 25.31	+20 14 48.4	A		20121+2005
S 3708	DN Vul	20 15 43.71	+21 57 33.9	G	1630-1629	
S 3709	FS Sge	20 18 18.08	+19 53 32.4	G	1639-1180	20160+1944
S 3710	CY Sge	20 18 26.72	+19 07 57.3	G	1639-0604	
S 3711	NV Vul	20 18 16.64	+24 29 48.9	T	2159-0543	
S 3712	CZ Sge	20 19 22.63	+18 23 33.6	A		
S 3713	CT Sge*	20 19 08.3	+20 42 57	S		

Notes:

- NR Aql HV 5460.
 V438 Aql AN 379.1933.
 V610 Aql very close double: oval on POSS-II J/F scans.
 V617 Aql variable on POSS-I/II red plates.
 V636 Aql crowded.
 V657 Aql crowded by close companions on northwest.
 V662 Aql large IRAS position error-ellipse.
 V664 Aql very bright on POSS-II F and N plates.
 V665 Aql IRAS position given (erroneously) by Skiff (1999).
 V672 Aql AN 704.1933.
 V676 Aql southwestern of pair.
 V715 Aql AN 85.1903.
 V1054 Aql HD 356115; just outside error-ellipse of IRAS 19499+1147.
 SY Ari AN 193.1935
 AH CMi fainter companion 9" southeast.
 GS Cas fainter close companion S.

Notes (cont'd.):

FY Gem	AN 12.1934.
FZ Gem	AN 475.1934.
GH Gem	<i>MVS</i> chart mislabelled as GH Mon.
GO Gem	GCVS 4.1 position 3:0 in error.
ZZ Leo	AN 3.1935.
AA Leo	AN 5.1935.
HT Lyr	brighter star lies 17'' east.
KL Lyr	AN 207.1935.
KY Lyr	large IRAS position error-ellipse.
V531 Ori	AN 435.1934.
V534 Ori	EM* StHA 38.
V1008 Ori	AN 429.1934.
V1009 Ori	AN 430.1934; middle of trio.
V1012 Ori	AN 434.1934.
ER Per	HD 18124.
IN Mon	IRC +10131.
IS Mon	LS VI +10°13.
WX Sge	IRC +20423.
AM Sge	not red on USNO-A2.0.
BL Sge	crowded: southernmost star in compact trio; bright on POSS-I red plate; very faint on POSS-II F plate.
EI Sge	AN 11.1928; USNO-UJ1.0 position given by Skiff (1997).
FM Sge	crowded.
CT Sge	crowded: faint companion merged on northeast, brighter star ~8'' south-southeast.
DW Sge	AN 26.1928; USNO-UJ1.0 position given by Skiff (1997).
CQ Vul	[MJD95] J194601.66+241421.9 = [MS98] 03-00022.
DF Vul	AN 149.1905; southwestern star of a merged pair on DSS; a bright companion lies 13'' southwest.
DK Vul	AN 494.1934.
EV Vul	HD 345076 (HDE type in error, is an early-B star).

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