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**COORDINATES AND IDENTIFICATIONS FOR  
 SONNEBERG VARIABLES ON MVS 287–291**

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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 (1949) in the difficult-to-find “Ergänzungshefte” to the *Astronomische Nachrichten*, and are the first group from a collection of some 1440 variables from this publication. Details about the identification procedure and table layout are contained in the first report of our series (Kinnunen & Skiff 2000). We are grateful to librarians Antoinette Beiser (Lowell) and Brenda Corbin (U. S. Naval Observatory, Washington) for providing a photocopy of the Hoffmeister survey; “bibliothécaire extraordinaire” Suzanne Laloë (Obs. Paris-Meudon) advised on how this obscure journal should be cited.

Table 1: Variables on *MVS* 287–291

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3714	V434 Ori	5 <sup>h</sup> 23 <sup>m</sup> 36 <sup>s</sup> .97	+12°44′40″.0	G	0708-0277	05207+1241
S 3715	V435 Ori	5 24 03.93	+06 18 23.7	G	0113-1060	05213+0615
S 3716	V440 Ori*	5 28 23.24	+08 41 27.8	G	0700-0875	
S 3717	V370 Ori	5 30 01.89	+12 13 09.8	G	0709-1229	
S 3718	GY Ori*	5 30 13.14	+12 08 45.8	G	0709-1597	
	HK Ori*	5 31 28.04	+12 09 10.3	T	0709-0857	
S 3719	V465 Ori*	5 33 51.31	+12 10 56.5	G	0709-0463	
S 3720	V471 Ori*	5 35 24.44	+13 29 25.8	G	0713-0490	05325+1327
S 3721	V506 Ori*	5 39 09.23	+09 25 30.4	G	0718-1019	
S 3722	V512 Ori	5 40 43.17	+12 49 07.8	G	0722-0172	
S 3723	V515 Ori	5 41 29.55	+09 07 19.8	G	0714-0926	
S 3724	V1022 Ori	5 43 23.21	+09 05 31.8	G	0714-0231	
S 3725	V521 Ori	5 44 19.26	+11 48 47.4	T	0722-1086	
S 3726	V520 Ori	5 44 04.99	+06 57 15.6	T	0127-0715	
S 3727	QS Ori	5 45 36.70	+12 16 15.2	G	0723-0588	
S 3728	QT Ori	5 47 03.00	+05 55 04.0	G	0128-0066	
S 3729	V526 Ori	5 50 41.56	+09 18 19.9	A		
S 3730	V527 Ori*	5 53 04.88	+13 07 00.1	T	0724-0155	
S 3731	DU Tau	5 30 26.06	+21 53 23.0	T	1309-3220	

Table 1: Variables on *MVS* 287–291 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3732	NSV 2055	5 <sup>h</sup> 31 <sup>m</sup> 15 <sup>s</sup> .70	+22°01′01″.9	G	1309-3010	
	DW Tau*	5 37 44.08	+17 45 30.1	A		05348+1743
S 3733	DX Tau	5 41 05.11	+16 35 30.4	G	1298-0853	05381+1634
S 3734	DZ Tau	5 42 38.57	+22 01 19.7	G	1310-1377	05396+2159
S 3735	EE Tau	5 42 38.11	+19 21 51.4	T	1306-1020	
	HY Tau	5 43 22.38	+19 24 05.5	G	1306-0895	
	EF Tau*	5 43 31.81	+19 25 12.2	G	1306-1298	
	CP Tau*	5 45 26.53	+15 30 45.3	T	1299-1450	
S 3736	EU Tau	5 45 40.53	+18 39 24.8	T	1303-0289	
	EG Tau*	5 45 43.92	+18 38 15.9	G	1303-0352	05428+1837
S 3737	EH Tau	5 45 33.62	+16 26 55.9	G	1299-0591	05426+1625
	EI Tau*	5 46 56.53	+17 54 31.6	G	1303-1131	05440+1753
S 3738	EK Tau	5 49 25.24	+19 49 14.8	A		05464+1948
S 3739	EL Tau	5 49 21.52	+13 12 07.9	T	0727-0240	
S 3740	QU Ori	5 50 03.99	+21 51 39.0	G	1311-1519	
S 3741	QV Ori	5 50 04.35	+19 59 22.8	A		
S 3742	EM Tau	5 50 14.62	+15 59 29.5	A		05473+1558
S 3743	EW Tau	5 51 35.22	+16 01 57.3	T	1299-0624	
S 3744	QW Ori	5 53 40.24	+21 45 37.4	T	1324-0643	
S 3745	V335 Ori	5 57 41.49	+21 47 17.6	G	1324-0802	
S 3746	V641 Ori	5 57 17.69	+14 06 15.9	G	0728-1223	
S 3747	V337 Ori	5 59 20.57	+20 02 07.5	T	1320-0167	
S 3748	V339 Ori	6 01 04.66	+16 54 41.0	G	1317-0868	
S 3749	V341 Ori	6 03 37.33	+14 42 48.4	G	0729-0713	
S 3750	V342 Ori	6 04 01.14	+21 13 33.5	G	1325-0585	
S 3751	HH Gem	6 37 06.92	+13 08 46.9	A		
S 3752	KV Gem	6 47 12.58	+15 43 34.5	G	1330-1213	
S 3753	FI Gem	6 49 09.06	+16 09 45.0	G	1331-1775	
S 3754	FS Gem*	6 57 21.23	+16 30 13.9	A		
S 3755	IX Mon	6 57 47.49	+11 48 21.0	G	0756-0468	
S 3756	EG Gem	6 57 51.87	+13 08 24.4	T	0760-0258	
S 3757	EH Gem	6 59 27.55	+12 18 55.2	G	0756-1515	06566+1223
S 3758	IY Mon*	7 00 39.28	+10 34 52.3	G	0752-2551	06578+1039
S 3759	KK Mon	7 01 27.99	+10 26 38.2	G	0753-2552	06587+1030
	EV Mon*	7 02 08.57	+10 45 43.2	G	0753-1043	06593+1050
S 3760	GG Gem	7 02 40.85	+17 29 37.3	T	1348-1311	
S 3761	GM Gem	7 05 29.82	+10 39 36.4	G	0753-2029	
S 3762	AB CMi	7 07 57.33	+11 58 19.1	G	0757-0337	
S 3763	GQ Gem	7 10 02.85	+14 47 05.5	A		
S 3764	GL CMa	6 38 28.44	-16 56 12.1	T	5952-2317	06362-1653
S 3765	NSV 3084	6 40 05.53	-13 55 30.6	T		06377-1352
S 3766	DY CMa	6 42 37.58	-14 27 18.9	T	5390-2077	
S 3767	GN CMa	6 42 27.43	-19 00 50.1	T	5957-2754	
S 3768	DF CMa*	6 44 53.59	-21 16 47.2	A		06427-2113
S 3769	GO CMa*	6 46 15.51	-12 52 52.5	T	5387-1068	
S 3770	DG CMa	6 46 13.13	-18 45 44.4	A		06440-1842
S 3771	DH CMa	6 46 41.05	-12 45 18.5	A		06443-1241
S 3772	NSV 3209	6 46 32.95	-19 19 18.0	G	5957-1622	06443-1915
S 3773	GI CMa	6 47 43.04	-13 40 00.2	G	5391-2142	
S 3774	DK CMa	6 49 06.38	-13 46 19.6	G	5391-1545	06468-1342
S 3775	NSV 3228*	6 49 44.42	-14 46 49.7	T	5391-2884	

Table 1: Variables on *MVS* 287-291 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3776	DL CMa	6 <sup>h</sup> 51 <sup>m</sup> 48 <sup>s</sup> .56	-19°02'17".8	G	5958-0638	
S 3777	GQ CMa	6 54 01.11	-13 13 09.3	G	5392-0191	
S 3778	GR CMa	6 55 07.04	-14 09 32.8	G	5392-0530	
S 3779	GS CMa*	6 55 40.79	-16 51 49.3	T	5950-2065	
	DN CMa*	6 55 17.41	-16 47 52.3	G	5950-0443	
S 3780	NSV 3327	6 59 55.79	-15 55 47.6	G	5963-0870	
S 3781	NSV 3339	7 01 36.94	-14 21 31.0	A		
S 3782	NSV 3393	7 06 38.02	-15 48 07.8	A		
S 3783	GV CMa*	7 08 14.04	-18 30 33.3	T	5968-2615	
S 3784	GX CMa	7 12 00.38	-19 20 36.2	G	5973-0124	07097-1915
S 3785	BO CMa	7 13 48.88	-19 41 25.9	T	5973-0870	
S 3786	MO CMa*	7 14 42.14	-17 25 41.0	T	5969-0923	
S 3787	LN Pup	7 55 09.08	-23 10 24.0	T	6553-1168	
S 3788	NSV 3893*	8 04 53.06	-20 15 58.1	G	6003-2281	08026-2007
S 3789	NSV 3921	8 08 37.95	-21 20 56.7	T	6008-1327	08064-2112
S 3790	LY Pup	8 12 02.87	-23 16 35.8	T	6555-1537	
S 3791	NSV 3979*	8 16 25.25	-21 26 59.1	G	6009-0326	08142-2117
S 3792	IZ Pup	8 24 04.51	-21 57 42.8	G	6010-1949	
S 3793	NSV 4059*	8 24 09.65	-21 58 06.2	G	6010-2033	08219-2148
S 3794	NSV 4066	8 25 18.18	-22 49 38.0	T	6569-2491	
S 3795	NSV 3759	7 50 21.41	-23 25 20.4	G	6553-3104	
S 3796	NSV 3913*	8 07 40.25	-25 19 51.3	T	6559-1805	
S 3797	NSV 3948	8 13 06.59	-27 13 35.2	G	6563-2670	08110-2704
	FT Pup*	8 25 42.71	-23 37 14.2	G	6569-3910	
S 3798	NSV 4072	8 25 40.00	-23 39 24.7	G	6569-3946	
S 3799	PS Her	18 08 41.82	+32 02 06.3	G	2625-0410	
S 3800	PT Her	18 09 39.13	+35 09 39.5	G	2630-0997	18078+3508
	PV Her*	18 09 50.31	+35 49 56.5	G	2634-0416	18080+3549
S 3801	HX Lyr	18 17 00.05	+34 48 56.1	T	2630-0208	
S 3802	IO Lyr*	18 22 38.00	+32 57 32.6	*	2627-1159	
S 3803	IW Lyr	18 28 01.36	+38 59 52.2	G	3104-1859	
S 3804	IX Lyr	18 28 56.34	+32 14 50.0	G	2628-0458	18270+3212
S 3805	KN Lyr	18 30 44.64	+38 23 55.0	G	3105-1085	
S 3806	KP Lyr	18 30 51.84	+38 38 25.3	T	3105-0726	
S 3807	KR Lyr	18 30 57.09	+37 44 29.6	A		
S 3808	LL Lyr*	18 35 12.87	+38 20 04.6	A		
S 3809	LP Lyr	18 38 20.31	+32 32 44.6	G	2641-2110	F18364+3230
S 3810	CY Dra	19 46 05.22	+59 34 26.2	T	3946-0531	
S 3811	V755 Cyg	19 48 36.93	+52 47 36.0	G	3935-1694	
S 3812	V756 Cyg	19 48 39.53	+53 16 39.6	G	3935-0978	19474+5309
S 3813	V542 Cyg	19 49 10.52	+58 31 59.4	A		
S 3814	V548 Cyg	19 56 58.31	+54 47 58.3	T	3939-1341	
S 3815	V757 Cyg	19 57 12.67	+53 10 26.2	G	3935-1734	
S 3816	V760 Cyg	20 01 37.42	+53 28 31.6	G	3936-1533	20003+5320
S 3817	V549 Cyg	20 02 50.29	+56 51 22.0	G	3944-1633	
S 3818	V761 Cyg	20 06 06.99	+53 04 17.6	G	3936-1791	20048+5255
S 3819	V1514 Cyg	20 07 01.33	+58 16 40.9	T	3948-1689	20060+5808
S 3820	NSV 12843	20 08 11.89	+59 47 42.6	G	3948-1598	

Table 1: Variables on *MVS* 287–291 (cont'd.)

Sonne.	GCVS	RA (2000)	Dec	s	GSC	IRAS
S 3821	V763 Cyg	20 <sup>h</sup> 09 <sup>m</sup> 30 <sup>s</sup> .57	+52° 12'55".3	G	3571-1082	
S 3822	V762 Cyg	20 08 39.62	+59 26 27.7	G	3948-2114	20077+5917
S 3823	V764 Cyg	20 09 14.44	+59 32 02.1	G	3948-0183	20082+5923
S 3824	V558 Cyg	20 11 56.26	+54 29 09.2	G	3940-0876	20106+5420
S 3825	V786 Cyg*	20 14 28.57	+59 44 20.9	G	3949-0269	20135+5935
S 3826	V767 Cyg	20 16 49.97	+53 12 24.1	A		
S 3827	V770 Cyg	20 20 16.93	+55 08 56.9	G	3941-1952	20190+5459
S 3828	V771 Cyg	20 22 25.22	+59 20 20.9	G	3949-1692	20213+5910
S 3829	V772 Cyg*	20 23 31.42	+54 11 13.1	G	3937-0655	
S 3830	V561 Cyg	20 25 58.20	+52 08 41.2	G	3584-1773	20245+5158
S 3831	DS Cep	20 24 40.99	+59 58 40.6	T	3949-0311	20236+5948
S 3832	V773 Cyg	20 25 27.03	+56 57 30.4	T	3945-1590	20242+5647
S 3833	V728 Cyg	20 26 40.13	+58 46 47.9	T	3962-1273	
S 3834	NSV 13109	20 28 29.59	+56 46 06.3	G	3958-1495	
	V564 Cyg*	20 31 21.54	+54 52 52.8	A		
S 3835	V776 Cyg	20 33 22.10	+55 19 38.5	G	3954-1200	
S 3836	DT Cep	20 33 22.16	+60 13 52.8	G	4233-2148	
S 3837	V777 Cyg*	20 35 25.16	+53 55 47.0	T	3950-0274	
S 3838	V566 Cyg	20 35 13.85	+55 58 50.8	A		
S 3839	V778 Cyg*	20 36 07.40	+60 05 26.2	T	4246-1005	
S 3840	V1787 Cyg	20 37 45.31	+55 16 31.0	G	3954-1724	
S 3841	DU Cep	20 41 07.21	+58 26 38.1	G	3963-1407	20399+5815
S 3842	DD Cep	20 42 30.50	+59 15 57.5	G	3963-0187	20413+5905
S 3843	V717 Cyg	20 01 05.02	+30 49 52.3	T	2670-3884	
S 3844	V718 Cyg*	20 03 05.14	+30 20 12.9	G	2670-3287	
S 3845	EE Vul	20 04 03.50	+28 14 01.3	A		
S 3846	V720 Cyg	20 04 05.99	+29 57 38.4	G	2153-0502	
S 3847	V550 Cyg*	20 05 04.87	+32 21 23.8	A		
S 3848	V722 Cyg	20 06 02.01	+30 40 49.6	G	2671-2340	20040+3032
S 3849	V552 Cyg	20 06 00.88	+33 09 07.8	A		
S 3850	V723 Cyg	20 06 12.03	+32 08 46.7	G	2675-2245	20042+3159
S 3851	V724 Cyg	20 07 36.11	+33 54 10.9	A		
S 3852	V743 Cyg	20 09 41.35	+29 24 00.4	T	2166-0551	
S 3853	V489 Cyg	20 09 52.42	+30 21 04.2	T	2671-0147	20078+3012
S 3854	V1823 Cyg	20 12 06.36	+34 38 33.5	T	2679-1740	
S 3855	V557 Cyg*	20 12 57.97	+32 14 56.4	G	2675-1793	
S 3856	V493 Cyg	20 13 25.80	+32 55 26.7	G	2675-2526	
S 3857	V494 Cyg	20 13 56.34	+34 16 49.4	G	2679-0500	
S 3858	EF Vul	20 15 18.59	+26 03 38.0	T	2159-0176	
S 3859	V469 Cyg	20 14 48.88	+34 44 22.6	G	2679-2164	
S 3860	EO Vul	20 21 03.90	+27 33 53.1	T	2163-0791	
S 3861	DS Vul	20 21 28.78	+26 42 14.8	A		20193+2632
S 3862	EH Vul	20 28 01.91	+26 03 35.4	G	2160-0460	
S 3863	V505 Cyg	20 29 28.87	+32 47 50.1	T	2689-0728	
S 3864	V730 Cyg	20 35 33.44	+34 23 42.8	A		20335+3413

## Notes:

DF CMa	just outside IRAS position error-ellipse.
DN CMa	AN 676.1936.
GO CMa	C* 579.
GS CMa	PPM 713261.
GV CMa	PPM 713578.
MO CMa	NSV 3482 = SS 95.
V550 Cyg	southeastern component of a close pair; position also given by Skiff (1999).
V557 Cyg	IRC +30420.
V564 Cyg	AN 449.1934.
V718 Cyg	GSC v1.1 position given by Skiff (1999).
V772 Cyg	GCVS 4.1 position 3'6 in error.
V777 Cyg	Kiso C3-39.
V778 Cyg	[PCC93] 419.
V786 Cyg	IRC +60285.
FS Gem	ID somewhat uncertain; blue candidate assumed.
PV Her	AN 364.1933.
IO Lyr	Hipparcos position given; not in Tycho-2.
LL Lyr	in outburst on POSS-I plates.
EV Mon	AN 88.1933.
IY Mon	southeastern component of close double.
GY Ori	CSI+12-05274.
HK Ori	AN 43.1939.
V440 Ori	BD+08°971.
V465 Ori	GCVS 4.1 position 3'0 in error.
V471 Ori	northeastern component of close double.
V506 Ori	Haro 6-74.
V527 Ori	brighter of a pair.
FT Pup	AN 849.1936.
CP Tau	AN 281.1934.
DW Tau	HV 6915.
EF Tau	HV 6920.
EG Tau	HV 6922.
EI Tau	HV 6923.
NSV 3228	brighter of a pair.
NSV 3893	western star of a pair.
NSV 3913	CD-24°6497.
NSV 3979	wrong star marked on chart.
NSV 4059	CSV 1295.

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