

COMMISSIONS 27 AND 42 OF THE IAU
 INFORMATION BULLETIN ON VARIABLE STARS

Number 3800

Konkoly Observatory
 Budapest
 29 October 1992

HU ISSN 0324 - 0676

**Spectral Types for Variable Stars Lacking Quoted Spectral Types
 in the 4th ed. of the GCVS**

Name	My Spec	R.A. (1950)	DECL.	Notes
FT Cas	M10	00 22 14.8	59 14 51	*
AV Cas	M8	00 56 30.4	60 27 11	*
V488 Cas	M7	02 34 05.2	62 48 49	
V363 Per	M9	02 37 32.6	55 00 12	
QR Per	M7	02 57 04.6	56 02 20	
VV Per	M6	03 23 23.7	49 32 35	
FG Ser	M9	03 49 54.4	47 30 12	S-type according to MacConnell
V387 Per	M8.9	04 15 38.4	44 29 07	
V348 Per	M8	04 41 41.6	49 42 23	
DU Aur	M9	05 08 01.2	31 16 12	
AT Aur	M9	05 19 51.6	36 08 18	
IX Tau	M9	05 35 28.1	25 24 16	
LZ Aur	M7	05 35 52.2	29 53 57	Case 1b 171, M7 (Ap.J. 120, 478)
IZ Tau	M9	05 41 25.1	28 16 47	
FX Aur	M7	05 51 10.9	28 36 01	
MS Aur	M7	05 53 23.3	31 51 35	
TY Gem	M9	06 27 03.8	16 37 49	
DZ Mon	M7	06 47 28.2	-04 46 06	
V378 Mon	M7	06 48 04.1	-01 25 25	
XY Mon	M6	06 49 50.6	-03 24 56	
V529 Mon	M6.7	07 00 24.1	01 14 22	
MZ Mon	M7.7	07 13 47.8	-02 13 24	
CT Pup	M9	07 32 29.4	-25 14 46	
UW Pup	M9.9	07 39 34.0	-16 29 25	Me in Ap.J. 142, 943.
UX Pup	M6	07 41 34.5	-13 46 57	*
DW Pup	M6-9	07 43 11.9	-20 37 45	
HR Pup	M6	07 50 46.9	-20 44 55	
ES Pup	M6	07 51 50.0	-19 12 22	
V544 Oph	M7	17 36 40.7	-24 41 03	
V1713 Sgr	M9	17 46 58.9	-29 12 39	
UY Sgr	M9	17 49 03.7	-22 36 11	
V1951 Sgr	M9	18 00 27.9	-23 00 01	
V3908 Sgr	M8	18 10 41.5	-16 14 44	
V1974 Sgr	M7p	18 19 00.4	-23 23 43	
V3937 Sgr	M5r	18 21 34.2	-16 11 43	
V386 Sct	M8	18 24 23.0	-15 51 27	
V409 Sct	M6	18 26 49.4	-14 01 40	
V927 Oph	M7	18 35 51.7	06 49 35	
V371 Sct	M9	18 40 48.2	-10 56 16	
CE Sct	M8-9	18 43 19.3	-05 41 28	

Name	My Spec	R.A. (1950)	DECL.	Notes
IM Sct	M6	18 48 15.7	-09 10 55	
LM Her	M9	18 47 56.2	12 08 52	Another late M is 1½' nne.
DQ Sct	M8-9	18 49 53.7	-08 02 48	
QW Sct	M9	18 53 14.0	-08 00 55	
V598 Aql	M7	18 56 14.7	-06 52 08	
V886 Aql	M7,8	18 56 35.9	-01 23 18	
CK Aql	M6	18 59 51.4	-04 59 15	
FI Aql	M9	19 01 32.7	13 57 23	
CN Aql	M9	19 04 52.6	-08 18 23	
V966 Aql	M7	19 09 23.8	-02 07 08	
V349 Aql	M7,7	19 09 35.6	-00 48 26	
V1123 Aql	M9-9	19 17 26.2	06 48 18	
V1124 Aql	M9	19 18 05.7	02 24 27	
V360 Aql	M6	19 20 28.4	02 39 46	
V366 Aql	M7	19 23 53.1	02 11 09	
V1438 Cyg	M5	19 28 49.0	28 48 49	
HL Sge	M9	19 33 30.4	16 43 50	
FT Vul	M9	19 34 22.1	27 02 54	
V641 Aql	M9	19 35 29.1	09 21 16	
V916 Cyg	M8	19 35 06.1	31 03 50	
LV Aql	M9	19 36 48.5	12 48 30	
V929 Cyg	M9p	19 36 54.1	32 17 15	
LY Aql	M9-10	19 37 25.6	12 32 45	
V653 Aql	M8-9	19 38 16.3	09 55 33	
HW Cyg	M6	19 38 22.9	32 39 04	M2 in Ap.J. 124,346 (i.d. uncertain)
FX Vul	M7	19 39 24.1	24 00 42	
GG Vul	M7	19 40 02.5	20 21 44	
GK Vul	M7	19 41 52.0	24 02 29	
IO Cyg	M6	19 42 39.0	32 21 52	M8 in Ap.J. Suppl. 4, 73.
V1152 Cyg	M6	19 46 10.7	36 18 25	
V1000 Cyg	M7	19 47 57.6	35 41 40	
ET Cyg	M6	19 49 21.5	31 10 30	
V543 Cyg	M8-9	19 51 09.8	32 12 40	
SX Sge	M9	19 51 34.7	18 14 11	
V1458 Cyg	M6	19 53 31.6	30 54 36	
V1166 Cyg	M6	19 54 39.3	39 42 39	
V1461 Cyg	M5	19 54 54.3	40 15 23	
V1298 Cyg	M6	19 57 34.1	41 12 33	
GV Sge	M6	19 58 33.6	20 56 45	
V1360 Cyg	M9	19 58 50.5	35 06 18	
EM Sge	M8	19 59 08.2	20 46 12	Close to V484 Cyg, a different star.
GH Sge	M8p	20 00 45.7	21 24 40	
BT Sge	M7	20 04 24.3	21 26 26	
V1367 Cyg	M8	20 08 49.2	40 29 54	
V1317 Cyg	M9	20 11 54.4	40 57 15	
V1650 Cyg	M6,7	20 16 49.3	39 08 32	
V1656 Cyg	M7,9	20 23 35.0	42 22 35	
V1658 Cyg	M9	20 23 40.8	42 16 40	
V1517 Cyg	M9	20 28 53.9	32 21 20	
V1201 Cyg	M8	20 37 16.3	44 54 56	*

Name	My Spec	R.A. (1950)	DECL.
V1210 Cyg	M8-9	20 44 57.5	32 49 40
CC Cyg	M5	20 46 23.3	53 51 33
V1223 Cyg	M8	21 02 49.5	41 00 46
V1663 Cyg	M6	21 06 57.1	46 20 11
V580 Cyg	M7	21 09 00.1	44 37 45
V529 Cyg	M8-9	21 11 03.1	39 56 12
V589 Cyg	M8	21 15 12.2	47 55 08
V1243 Cyg	M7,9	21 23 52.6	45 19 34
BM Cyg	M9	21 30 00.7	47 22 21
V1728 Cyg	M7,9	21 34 07.6	51 01 17
V1733 Cyg	M9,10	21 40 05.2	51 43 27
V650 Cyg	M8	21 40 07.2	44 44 01
V411 Cyg	M7	21 45 15.3	48 15 09
LS Cyg	M9	21 51 28.2	48 34 00
PY Cep	M8,9	21 52 14.0	60 18 11
V1737 Cyg	M9	21 53 10.6	49 31 29
V1406 Cyg	M7	21 55 51.3	53 09 20
DN Cyg	M9,9	21 56 25.1	51 47 52
V1739 Cyg	M9p	21 58 54.0	52 16 59
HP Lac	M9	22 02 31.0	51 29 34
II Lac	M7,7	22 04 25.7	52 44 40
IZ Cep	M8	22 06 26.1	53 40 34
KU Cep	M9	22 14 58.7	56 22 23
LN Lac	M7	22 17 52.0	54 27 13
LP Lac	M7	22 18 27.5	54 00 05
LQ Lac	M7	22 18 52.4	52 35 45
HN Cep	M7	22 23 30.5	57 00 41
DQ Lac	M7	22 25 03.3	56 34 19
QW Lac	M9	22 27 07.8	53 02 49
NV Lac	M6,6	22 29 10.8	54 56 33
GV Lac	M9,9	22 39 27.8	56 23 27
DF Cep	M8,9	22 40 56.4	57 21 23
KX Cas	M9,9	23 00 29.4	57 39 05
V430 Cas	M8,8	23 13 24.9	55 57 27

The foregoing spectral types are based on unwidened near-infrared (6800-8800 Å) objective prism plates of dispersion 1700 \AA mm^{-1} at the atmospheric A band. The plates were a survey covering most of the Milky Way north of declination -20° , except for large gaps eastward of right ascension 6 hours.

Notes to the Table

FT Cas: My position is about $2\frac{1}{2}'$ different from the GCVS, whose position is given to only $1'$. The published blue-region identification chart cannot be compared with my infrared plate. There is on the infrared plate no other visible reddish candidate for the variable star.

AV Cas: No. 150 of my carbon star catalog (2d ed.) was identified as AV Cas by Kurtanidze, but the published position of AV Cas agrees better by $2'$ with that of the M star. We lack the identification chart. L. Dahlmarm, in IBVS 2878, has published a new variable star, LD 94, on the position of the carbon star, with i.d. chart marked accordingly. Either the GCVS position for AV Cas is in error, or both adjacent red stars are variable.

UX Pup: Listed as a Cepheid variable in P.A.S.P. **92**, 314, but that is a misprint. The GCVS gives the variability type as SR, and I confirm my M star as the variable by i.d. chart.

V1201 Cyg: Has been published as S-type, but was already corrected to late M in my S-star catalog (table of rejected S stars, both eds.)

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