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SPECTRAL CLASSIFICATIONS FOR FIFTEEN RED VARIABLES

A search through our files has revealed unpublished spectral classifications for the variables listed in Table 1; none have spectral data in the GCVS or NSV. The types were determined many years ago from low-dispersion visual-region objective-prism spectra, but were not published at the time because of a suspicion—almost certainly unfounded—that the objects showed non-hydrogen-line emissions. Bright H_{α} is not seen in any of our plates of these stars, but hydrogen emission in the blue has been reported for V867 Aql by Smak and Preston (1965).

Table 1

Name	Spectral Type	Remarks
V867 Aql	M7e	
V1210 Aql	M5	
V1282 Aql	M5	
V1354 Aql	M5	
V1384 Aql	M4	NSV 12334
V1397 Aql	M3	NSV 12497
EV Mon	M8	
V531 Mon	M5	
YZ Oph	M5	
AQ Oph	M6	
V786 Oph	M6	
V2074 Oph	M4	
V602 Sco	M	
V371 Sct	M5	
NSV 3647	M4	

In passing, a comment concerning the GCVS spectral types taken from Table 1 of Nassau, Stephenson, and Caprioli (1964) is in order. Most of these stars are designated as of luminosity class III in the GCVS, though not in the original table. The origin of this is no doubt the statement in the paper that “the spectra of all of the M stars resemble giants on our blue plates.” Although this is certainly true, it is also quite clear that a truly meaningful luminosity class cannot be assigned to these stars from the objective-prism material utilized in that paper, and the use of the Roman III symbol may give an unwarranted impression of the accuracy of the implied absolute magnitude. It is recommended that the luminosity indicator be deleted for these objects in future editions of the GCVS. It should be emphasized, however, that the above recommendation does

not apply to the vast majority of GCVS spectral types for red stars determined from higher-quality spectroscopic material.

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References:

- Nassau, J. J., Stephenson, C. B., and Caprioli, G., 1964, *ApJ*, **139**, 864
Smak, J. I. and Preston, G. W., 1965, *ApJ*, **142**, 943