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## V383 VELORUM, A NEW DWARF NOVA

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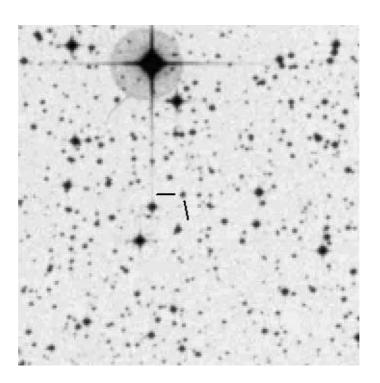


Figure 1. Finding chart for V383 Vel from the DSS (STScI). North up, field 5 arcmin wide. Bright star at top is SAO 221986 = HD 89954, 9.0 V

Observations during 30 maxima are listed in Table 1. The variable was estimated on 14 plates of the 60-cm Bruce astrograph (1899, 1926–35) and 107 plates of the 25-cm MF

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Table 1. Maxima	TOL VOC	o verou marvard	Places
JD 2400000+	$m_{ m pg}$	JD 2400000 +	$m_{ m pg}$
14393.7*	12.6	29039.3*	13.5
24668.6*	13.6	29749.3	13.8
24672.6	16.5	29751.3*	12.9
26046.4*	12.8	29756.3	15.5
26055.4	14.8	30056.3*	12.5
26414.4	(14.6)	30061.4	12.8
26417.4*	12.6	30063.3	13.3
26469.3*	13.4	30491.3*	12.9
26470.3	13.4	31591.3*	13.0
26471.3	14.0	31963.3*	13.1
26472.3	14.6	33039.3*	12.5
26738.6*	13.9	33418.3*	13.8:
26796.3	13.2	43695.5*	13.0
26797.3*	13.1	45703.0	13.2:
26803.4	16.2	45711.0*	13.0
26889.4*	12.8	45872.9*	14.0:
27044.6*	13.8	46110.0*	13.0
27050.5	15.8	46170.9*	12.9
27125.4	13.1	46224.9*	12.8
27193.2	13.8	46837.2*	12.8
27194.4*	12.9	46918.0*	13.2
27590.3*	13.5	47327.9*	13.1
29000.4*	13.5		

camera (1930–35). The best of these plates reach a faint limit of about 17.0 B. (These observations are listed electronically as 4994-t2.txt, available through the IBVS Web site.) In addition, estimates of the variable during outbursts were collected from the RB patrol plates (1930–52, faint limit 15.5 B) and the DSB patrol plates (1978–88, faint limit 14.5 B). Magnitudes of local comparison stars were estimated by comparison with nearby photoelectric B sequences from the Guide Star Photometric Catalogue (Lasker, Sturch, et al. 1988). The brightest observation near each maximum is labeled with an asterisk (\*), though in each case the true maximum may have been brighter and earlier or later than the given JD. When available, fainter observations within a few days of labeled maxima are included in the table to indicate the rate of rise and decline.

In several instances, the maxima occur at intervals of 52–60 days, which is probably the characteristic cycle for this DN. In one instance, JD 2429000 and 2429039, the interval is shorter, but probably neither observation at 13.5 represents a full maximum.

V383 Vel is one of 1,764 new variables found by Luyten during the Bruce Survey. Most remain unstudied. For a brief review of these discoveries, see Williams (2000).

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## References:

Lasker, B., Sturch, C., et al., 1988, Astrophys. Journ. Suppl., 61, 1
Luyten, W. J., 1938, Minn. Publ., 2, No. 6
Williams, D. B., 2000, J. Amer. Assoc. Var. Star Obs., 28, 12