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OUTBURST OF VY Aqr IN 1983

Photometric observations of the outburst of VY Aqr in Nov.-Dec., 1983 were obtained in Japan favored by good weathers. The outburst was first detected on Nov. 28 by S. Fujino. The observers and the instruments are as follows.

M. Huruhata (Gotemba)	18cm Schmidt camera
S. Fujino (Hamamatsu)	31 " "
M. Wakuda "	f 400mm Camera
T. Saito "	21cm reflector

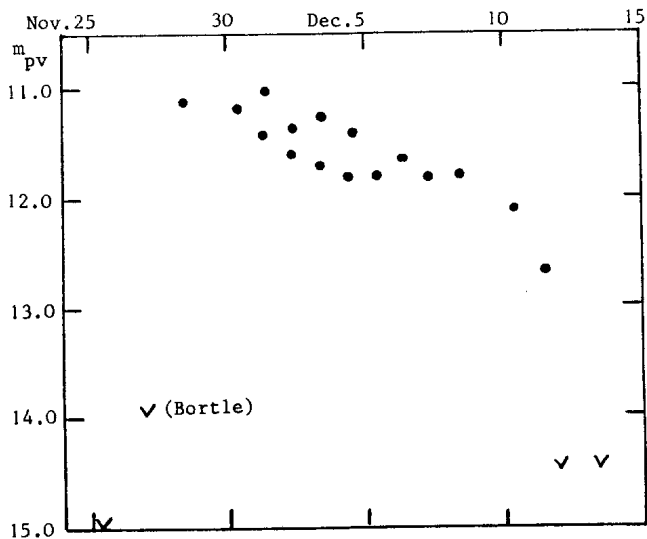


Figure 1

m_{pV} light curve of VY Aqr in 1983

All the observers used Tri X emulsion, and the yellow-green filter was attached to get visual magnitude. The magnitudes of comparison stars were determined photographically by the writer. The results are shown in the following table.

	U.T.	m_{pv}	Obs.		U.T.	m_{pv}	Obs.
Nov.	25.37	[15	H	Dec.	4.39	11.3	W
	28.43	11.1	F		5.37	11.8	H
	30.37	11.2	H		6.39	11.7	S
Dec.	1.36	11.4	H		6.45	11.7	F
	1.43	11.0	S		7.41	11.8	H
	2.36	11.6	H		8.36	11.8	H
	2.40	11.3	F		10.37	12.1	H
	3.36	11.7	H		11.36	12.7	H
	3.40	11.2	W		12.36	[14.5	H
	4.37	11.8	H		13.37	[14.5	H

The results are plotted in Figure 1, in which the pre-outburst observation by J. Bortle on Nov. 27.04 is shown. Thus the outburst is considered to have occurred between Nov. 27.0 and 28.4, and the brightness suddenly decreased on Dec. 11 like SS Cygni type stars.

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Reference :

Bortle, J., 1983, IAU Circular No. 3896