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**V982 Oph IS A DWARF NOVA**

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<b>Name of the object:</b>
V982 Oph

<b>Equatorial coordinates:</b>	<b>Equinox:</b>
R.A.= 17 <sup>h</sup> 52 <sup>m</sup> 38 <sup>s</sup> .49 DEC.= +07°33'04".4	2000

<b>Observatory and telescope:</b>
Crimean Laboratory of the Sternberg Astronomical Institute, 40-cm astrograph

<b>Detector:</b>	Photoplate
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<b>Filter(s):</b>	None
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<b>Date(s) of the observation(s):</b>
1976–1990

<b>Transformed to a standard system:</b>	$B_{pg}$
<b>Standard stars (field) used:</b>	The $B$ -band photoelectric standard sequence in NGC 6426 (S.Yu. Shugarov, private communication).

<b>Availability of the data:</b>
Upon request

<b>Type of variability:</b>	UG
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**Table 1.** The 18 detected outbursts of V982 Oph

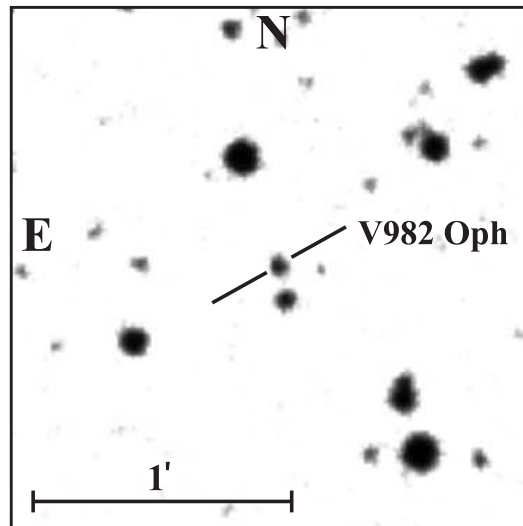
No.	JD24...	$B_{pg}$	No.	JD24...	$B_{pg}$	No.	JD24...	$B_{pg}$		
#1	42870.546	< 17.2	#6	43332.356	15.28	#12	44428.350	15.28		
	42871.574	< 16.4								
	42872.494	15.63		#7	43391.277		< 16.4	#13	44782.327	15.49
	42872.523	15.58			43394.288		15.54		44789.394	< 17.2
	42872.553	15.54			43395.262		15.49			
	42873.568	15.72			43399.256		16.50	#14	45137.428	16.50
	42874.531	15.58			43400.250		16.40			
	42874.564	15.58						#15	45915.327	16.32
	42875.531	15.63		#8	43424.216		< 17.2			
	42876.499	15.63			43425.241		17.00	#16	45941.312	16.07
42876.531	15.80		43426.226	15.67						
42876.562	15.89		43428.211	16.80	#17	46591.462	16.12			
			43429.214	< 16.4			46596.478	< 17.2		
#2	42982.309	16.32	#9	43717.297	15.41	#18	48090.305	16.40		
	42983.341	< 16.4		43718.347	15.9:		48091.305	16.80		
#3	43016.345	15.54	#10	44043.431	< 17.2		48092.427	< 17.2		
#4	43243.437	15.76		44050.409	15.30					
	43249.546	16.03								
	43253.517	< 16.4	#11	44105.283	16.16					
		44106.318		16.07						
		44107.290		17.20						
#5	43272.375	< 17.2		44110.301	< 16.4					
	43277.523	16.16		44111.300	< 17.2					
	43279.448	< 17.2								

**Remarks:**

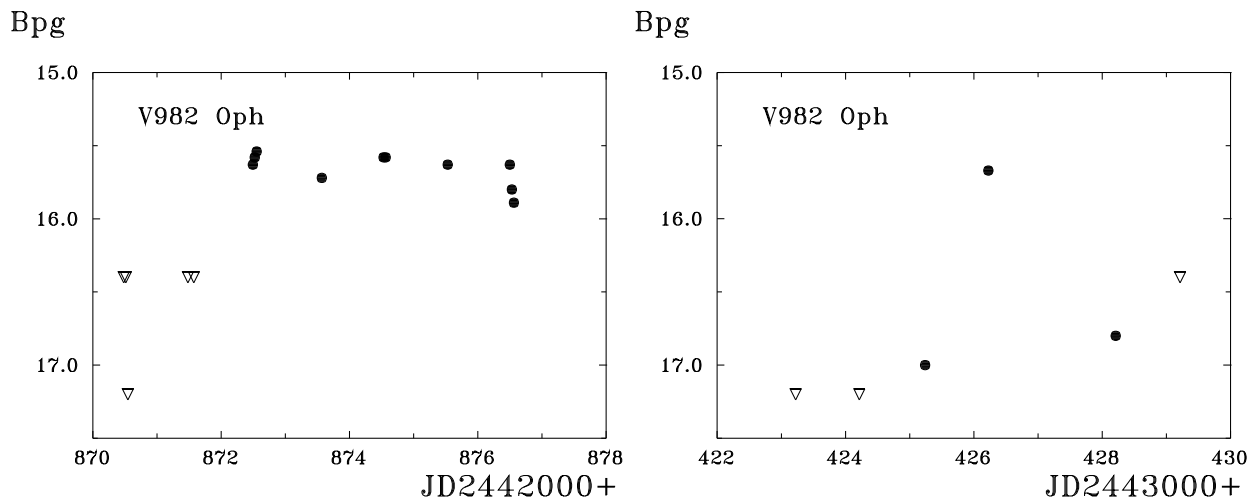
The variable V982 Oph (S 4187) was discovered by Hoffmeister (1949) who attributed it to Mira stars. A finding chart was published by Hoffmeister (1957). Götz (1957) also considers the star a long-period variable and reports one gradual rise of its brightness, from 16.9 to 15.9 during JD 2429785–2429845. The GCVS (4th edition) gives the type SR: for the star. Kinnunen and Skiff (2000) suggest an identification with the US Naval Observatory A2.0 catalog star at  $17^{\text{h}}52^{\text{m}}36^{\text{s}}.27$ ,  $+7^{\circ}32'20''.9$  (2000). This identification was found wrong in the course of our systematic check of identifications and positions for all GCVS stars in Ophiuchus, according to the program announced in Samus *et al.* (2002). Instead, we identify it with a blue star ( $b - r = -0.6$  in the USNO A2.0 catalog). The coordinates given are from the Guide Star Catalogue, Version 2.2.01. The finding chart, based upon the POSS I blue image from the USNOFS Image and Catalogue Archive, is presented in Fig. 1. The star's brightness estimates on the Moscow collection plates reveal beyond doubt that it is a dwarf nova, changing its brightness between 15.3 and  $(17.2B)$ . The star is visible on 39 of the 223 plates. A total of 18 outbursts were observed between JD 2442812–2448092. Figure 2 shows the light curve for two best-documented outbursts. A cycle value of 31 to 36<sup>d</sup> can be expected. The brightness rise observed by Götz (1957) probably resulted from estimates belonging to 2 or 3 individual outbursts.

**Acknowledgements:**

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**Figure 1.** The finding chart for V982 Oph (from the blue POSS I image retrieved from the UNSOFS Image and Catalogue Archive).



**Figure 2.** The light curves for two outbursts of V982 Oph.

## References:

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Samus, N.N., Goranskii, V.P., Durlevich, O.V., Zharova, A.V., Kazarovets, E.V., Pastukhova, E.N., Hazen, M.L., Tsvetkova, T.M., 2002, *Astronomy Letters*, **28**, 174