COMMISSION 27 OF THE I. A. U. INFORMATION BULLETIN ON VARIABLE STARS Number 1608

Konkoly Observatory Budapest 1979 May 18

PREDISCOVERY LIGHTCURVE OF NOVALIKE OBJECT KUWANO IN VULPECULA

Sonneberg Sky Patrol plates, taken by H. Huth, show that the rise to maximum of this object, which was discovered by Kuwano at $20^{\rm h}19^{\rm m}.0 + 21^{\rm o}25'$ (1950) (IAUC 3344), was well underway in the spring of 1978 already. The following estimates could be made on the exposures mentioned:

Date	J.D.	***	m		
1978 UT	244	_w ba	^{m}pv		
March 8.13	3575.63	>14 ^m 0	>13 ^m 0		
April 7.08	3605.58	13.5	>12.5		
July 27.9	1 3717.41	-	>11.0	poor	plate
July 30.97	7 3720.47	11.4	11.2		
Aug. 6.90	3727.40	-	>10.0	poor	plate
Aug. 28.89	3749.39	11.1	10.6		
Oct. 7.86	3789.36	10.2	9.9		
Nov. 1.73	7 3814.27	_	10.2		
Dec. 4.72	3847.22	-	9.5	5	

(> means: invisible fainter than)

Comparison stars B V Reference

HDE 351704 9 4 9 5 Die Sterne 43,21

HDE 351584 10.0 9.8 "

USNO 17569 11.2 10.8 Hoag Catalogue

The Tri-X brightness of 10^{m} on 1978 Aug. 21.52 UT of Honda (IAUC 3348) fits to our series.

By comparing the two overlapping fields 276 and 1608 of the POSS at the given position a variable object can easily be identified which with high probability is the pre-outburst phase of the star.

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