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UBVRI OUTBURST OF THE DWARF NOVA AH Her

AH Her is a cataclysmic variable, of type Z Cam, with a mean outburst period of 19.6 days (Beyer, 1967). Its magnitude varies within the range 10.2 to 14.7 (Kukarkin, 1969).

We present further UBVRI photometry of AH Her during the outburst of the second week of June 1986.

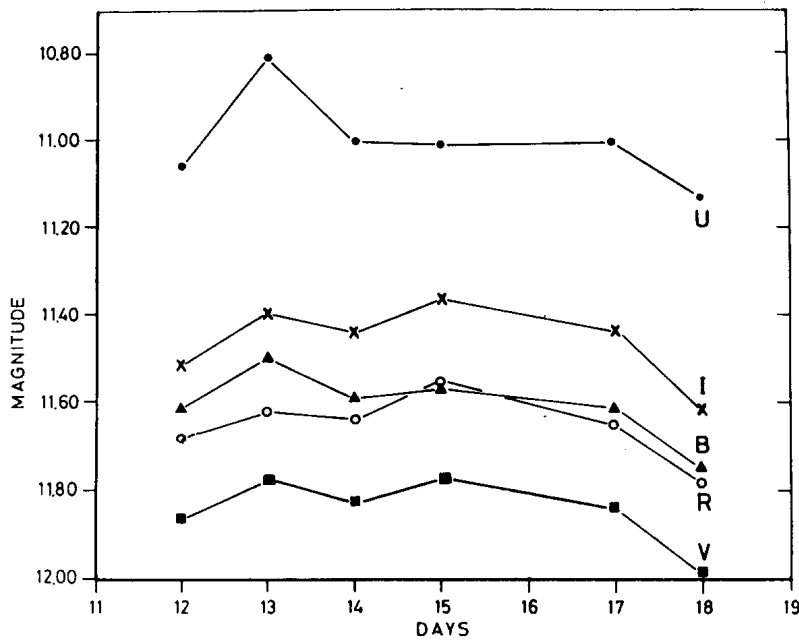
The star was observed during the week of the 11th to 18th June 1986. The observations were obtained at the Cassegrain focus of the 1m telescope at the Observatorio del 'Roque de los Muchachos', in La Palma (Canary Islands), using the People's photometer, a two channel photoelectric photometer and UBVRI filters in the Cousins System (Jones D., 1984).

The star was exposed in alternate channels with simultaneous sky measurements. The integration time was 17 sec in each filter. The average output of the two channels was used to reduce the data. Standard stars, selected from the available list in the Observatory, were observed to determine the atmospheric extinction, and used to reduce the magnitudes to a standard system. Our error is 0.01 magnitude.

We list in Table I the date, the mean universal time, the V magnitude and U-B, B-V, V-R, V-I colours for each observation.

TABLE I

Date	UT(h m)	V	U-B	B-V	V-R	V-I
12	1 12	11.87	-0.55	-0.26	0.18	0.35
13	4 38	11.78	-0.72	-0.25	0.16	0.38
14	1 25	11.84	-0.59	-0.23	0.20	0.40
15	1 38	11.78	-0.53	-0.22	0.21	0.40
16	22 24	11.85	-0.60	-0.24	0.19	0.41
18	1 45	11.99	-0.61	-0.24	0.20	0.37



In the graph, the U,B,V,R,I magnitudes are plotted against the date.

The existence of two maxima, whose behaviour depends on the wavelength is clear. A more detailed study, which includes IR measurements, is being prepared.

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 Jones, D.: 1984, *R.G.O./ La Palma, Technical Note Nº 10*
 Kukarkin, B.V.: 1969, *General Catalogue of Variable Stars, Moscow*