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PHOTOELECTRIC OBSERVATIONS OF THE FLARE STAR YZ CMi DURING THE 1972-73 30 DECEMBER - 12 JANUARY INTERNATIONAL PATROL.

The preliminary results of YZ CMi photoelectric observations carried out at the Catania Astrophysical Observatory during the observing period proposed by the IAU Working Group on Flare Stars (Chugainov P.F. 1972, IBVS 744) are given.

The observations were made in b light with a 91 cm cassegrain type reflector feeding a classical one-channel photoelectric photometer and with a 61 cm universal type reflector feeding a synchronous u, b, v photometer.

The detailed coverage intervals are given in the accompaniing Table 1.

Only one flare was detected during the $3^{h}.5$ patrol. The characteristics of the observed flare are reported in Table 2 and the light curve is given in the Figure.

The explanation of symbols and details of the observing equipment can be found in a preceding number of this Bulletin(Cristaldi S., Rodonò M., 1971, IBVS 525).

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January 31, 1973

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Table 1

Detailed Coverage

Date	Tel.	Light	Coverage (U.T.)	Total coverage	$\overline{3\sigma/I_o}$
110173	91	B	2345-2400; 0000-0009; 0025-0134; 0147-0201; 0209-0214; 0224-0233; 0245-0330; 0334-0419.	211	0.07
120173	61	B/V	2221-2226; 0006-0017; 0031-0039; 0056-0100; 0106-0112; 0116-0143; 0147-0319; 0325-0408; 0420-0428.	204	/.16/.10

Table 2

Flare characteristics

Date (UT): 1973 Jan. 12, $02^h45^m.9$ (JD_{hel} 2441694.6206)

$d_b = 0^m.17$ $\quad 3\sigma/I_o = 0.07$ $\quad P = 0.15$ $\quad 1.90 \times 10^{30}$ er

$d_a = 0^m.82$ $\quad (I_f/I_o)_{max} = 0.49$ $\quad$ Air mass = 1.54

Sky : some cirrus, moonless