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

NUMBER 678

Konkoly Observatory Budapest 1972 May 19

PHOTOELECTRIC OBSERVATIONS OF V645 Cen

The flare star V645 (Proxima) Cen was monitored for a total of 9 hours 44 minutes on 5 nights in the period of cooperative observations 6-21 April, 1972 using the Auckland Observatory 50cm reflector. Observations were made using the B filter of the Johnson UBV system, using an EMI 9502 photomultiplier tube and a digital recording apparatus with the exception of the first two periods on April 10 when a V filter was used. The time of monitoring is given in Table 1.

Table 1 Coverage UT

- 1972 April 9 0956-1007, 1011-1043, 1051-1247, 1258-1352. 10 1025-1037, 1041-1052, 1112-1144, 1151-1205. 13 1022-1029, 1036-1046, 1050-1121, 1126-1157,

 - 1203-1230.

 - 14 0725-0729, 0732-0818, 0902-0919, 0926-0957, 1000-1019, 1021-1029. 21 1031-1038, 1106-1140.

No definite flare activity was recorded.

Assistants: - G. Freeth, S. Clements, B. Wilde, P. Connolly,

D. Paterson and F. Williams.

Auckland Observatory

B.F. MARINO and W.S.G. WALKER

THE U Gem TYPE VARIABLE Z Cha

The GCVS (1969) lists the photographic range of Z Cha as 12 - <13.5 with a mean cycle of 66 days. During the interval 2,434,875 (1954 May 10) to 2,441,103 (1971 May 31)59 maxima have been observed from 4,500 observations.

The mean cycle from these observations is 104.1 days with a visual range of 11.5 to <14.0. Maxima magnitudes range from 11.5 to 13.0. Maxima brighter than 12.0 tend to reoccur at mean intervals of 343.5 days. The average number of maxima of all types within any interval of one thousand days is 9.6 with very little deviation.

The detailed results will appear in Memoir No 2, VSS, RASNZ.

FRANK M. BATESON

VSS, RASNZ.

VISUAL OBSERVATIONS OF YZ CMi AND V371 Ori

Visual observations of the flare stars YZ CMi and V371 Ori were carried out at the Whakatane Observatory using their 20cm refractor. Coverage is given in Table 1.

Table 1 Coverage UT

YZ CMi

1972 January 8 1149-1421, 1424-154.

9 1144-1400 10 1138-1418 Total 8^h59^m

V 371 Ori

1972 January 8 0938-1138 9 0926-1136

Total 6^h50^m 10 0855-1135

Four suspected flares of YZ CMi were observed at:-Jan. 9 13^h09.5^m; Jan. 10 11^h57^m; 12^h21.5^m and 12^h42^m. Each flare of 0.2 mag.

Suspected flares of V371 Ori were recorded at: -Jan. 8 10^h08^m(0.3mag); 11^h28.5^m(0.2mag); Jan. 9 10^h15.5^m(0.2mag) Observers: - B. Marino; J. Duthie; J. McQueen. VSS, RASNZ.

FRANK M. BATESON