

VARIABLE STAR SECTION.

CIRCULAR No. 140.

FLARE STAR PROGRAMMES 1970.

At the request of the I.A.U. Working Group on Flare Stars, the V.S.S., RASNZ will take part in the following co-operative programmes in 1970. Dates given are inclusive.

PRINCIPAL PROGRAMMES.

Jan. 31 -Feb. 13.	YZ Canis Minoris.	Chart 151.
May 28 -June 12	V645 Cen (Proxima)	Charts 154; 155.
Sept.22 -Oct 9	UV Ceti.	" 152; 153.

SECONDARY PROGRAMMES.

March 1 -March 15.	AD Leonis.	Chart 180.
March 30-April 14	Wolf 359	
April 15-April 28	BD +13°2618	Charts 195;196
April 29-May 13	Wolf 424	

Charts for Wolf 359 and Wolf 424 are being produced.

COMPARISON STARS:

The comparison stars, as shown on the charts listed, should be used with the exception of YZ CMi. For this star A.D. Andrews (IBVS 342, 1969) has now published photo-electric magnitudes. The V magnitudes to be used are given below:-

<u>ANDREWS CHART LETTER.</u>	<u>BATESON'S CHART LETTER</u> (Chart 151).	<u>V.</u>
"a"	= "85"	8.10
"b"	"1"	10.52
"c"	"m"	10.72
"d"	"n"	10.72
"f"	"o"	11.00
"g"	"p"	11.70
"h"	"s"	12.46
"k"	"t"	12.47

PHOTO-ELECTRIC OBSERVATIONS.

Observers are requested to pay special attention to the three stars listed under principal programmes. Because of its southern position every effort should be made to cover V645 Cen during every hour of clear sky. Observations should be reduced in accordance with the suggestions in IAU IBVS 326, 1969.

VISUAL & PHOTOGRAPHIC OBSERVATIONS.

These should be made in accordance with the instructions contained in previous Circulars.

All records should be sent to the undersigned as soon after each programme finishes as possible.

1970 January 26

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DIRECTOR.

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