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Konkoly Observatory
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 1970 July 17

YZ CANIS MINORIS

Photoelectric monitoring of YZ CMi was carried out at the Auckland Observatory with the 50 cm reflector. The observations were made with an E.M.I. type 9502 photo-multiplier tube and a standard B filter. The photometer uses a capacitor integrating circuit to convert the photo-multiplier current into a square wave pulse whose frequency waves in proportion to intensity. This is monitored with a digital frequency meter in ten second integrating periods.

During 17 hours of monitoring three flares were observed. Table 1 lists monitoring times with remarks on seeing conditions. The details of observed flares are given in Table 2.

Table 1.

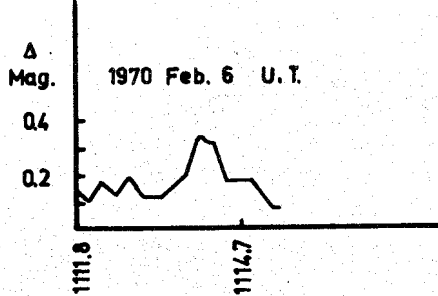
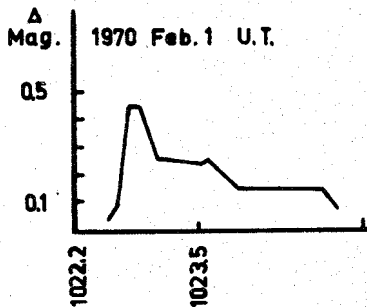
Date 1970. U.T.	Monitoring times U.T.	Remarks
Jan. 31	1234-1245;1331-1335 1414-1416.	Haze.
Feb. 1	0946-0949;0950-1032 1036-1115;1123-1203 1217-1244;1247-1303 1305-1322.	Clouds and haze at beginning; clearer for rest of night.
2	1044-1115;1117-1120;	Cirrus
3	1147-1216;1218-1227; 1259-1302;1309-1324;	Passing clouds
4	0920-0936;1038-1057;	Cloudy with clear patches
5	0906-0911;0936-0957; 1013-1027;1027-1037; 1039-1104;1125-1136; 1140-1201;1214-1243; 1250-1345;1413-1446; 1454-1526;1539-1552.	Some cloud Clear
6	1021-1056; 1104-1108;1112-1126; 1128-1146;1148-1200; 1209-1233;1317-1319;	Cloudy. Clear Cloudy
7	1028-1045;1046-1104; 1107-1116;1258-1321; 1325-1348.	Broken cloud

Feb. 8 0944-0945;0955-1025 Scattered cloud.
 1033-1100;1111-1129;
 1130-1132;1139-1153; Clear
 1156-1200 Clear
 1246-1247 Cloud
 11 1128-1141 Cloud
 1248-1317;1321-1335; Clear
 1337-1351;1357-1400;
 1405-1500;1512-1523;

Table 2.

Observed flares of YZ CMi

Date 1970 U.T.	Max. U.T.	d_b	d_a	S.D.	Max. Mag. B	Integ. Inten- sity mins .
Feb.1	10 ^h 22 ^m 38 ^s	<20 ^s	3 ^m 15 ^s	0.023	>0.42	0.537
6	11 13 35	23	45	0.027	0.19	0.080
7	12 58 10	?	>10mins	0.030	>0.34	-



Times of maxima are + 6 seconds. d_b = duration of flare before maximum; d_a = duration of flare after maximum; S.D. - Standard deviation near flare in B; Max. Mag. = Intensity of max. in B as defined in IBVS 326; Integ. Intensity = Integrated intensity, in minutes, as defined in IBVS 326.

The first two flares are depicted in Figures 1 and 2. The commencement of the third flare was not observed.

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YZ CANIS MINORIS

During the 1970 International period YZ CMi was monitored visually by members of the Variable Star Section, RASNZ., as under. No definite flares were observed.

Date 1970 U.T.	Monitoring times U.T.	
Jan. 31	09 ^h 08 ^m -	09 ^h 18 ^m
	10 03	10 20
	10 23	11 53
Feb. 1	11 20	11 50
	12 50	13 10
2	10 00	10 10
	10 32	10 37
	11 57	12 02
3	11 57	12 12
	12 17	12 22
4	09 57	10 40
	12 02	12 18
5	08 54	09 54
	10 00	11 45
6	09 00	10 14
	10 16	10 17
	10 34	12 00
9	10 10	10 17
	10 24	11 12
	11 13	13 03
10	10 25	13 56
	Total 15 ^h 08 ^m	

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V 645 (PROXIMA) CENTAURI

V 645 Cen was monitored at the West Melton Observatory, Christchurch (N.Z.) with the 40 cm reflector. The output of the photometer was recorded on tape. No flares were observed.

1970 (U.T.)	Monitoring time U.T.
May 31	0900 to 1200
June 10	1040 to 1130

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