

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

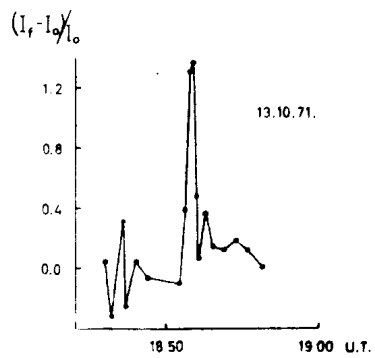
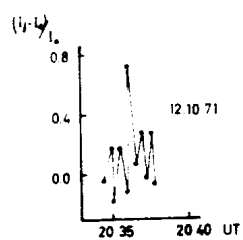
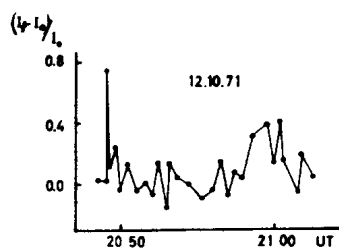
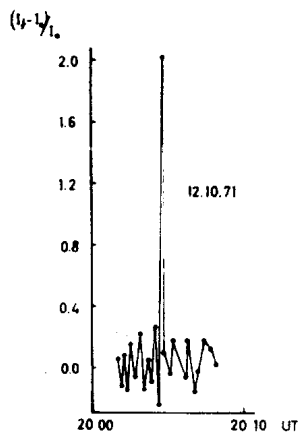
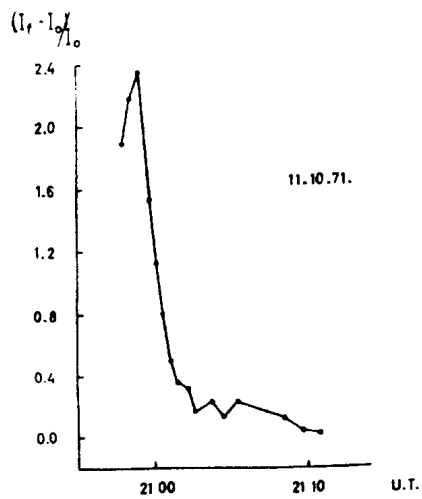
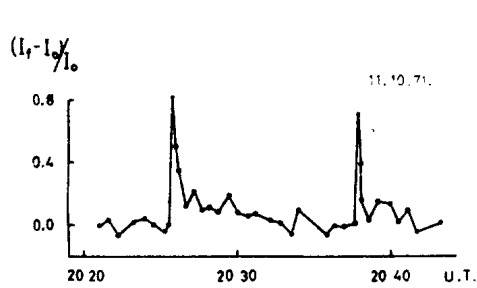
NUMBER 615

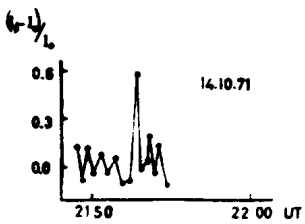
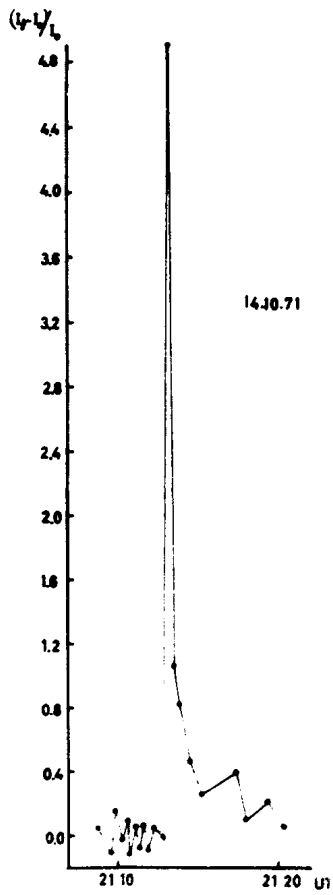
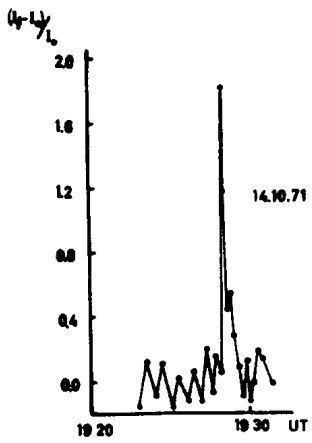
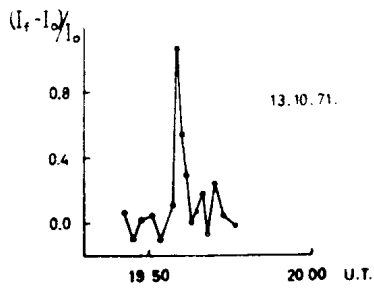
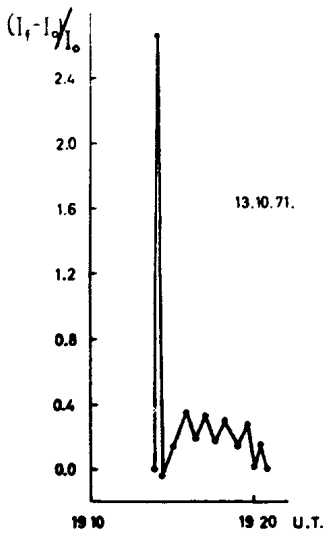
Konkoly Observatory
Budapest
1972 January 21

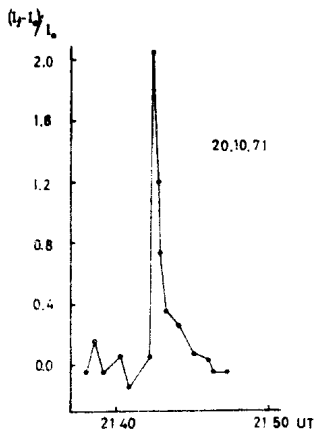
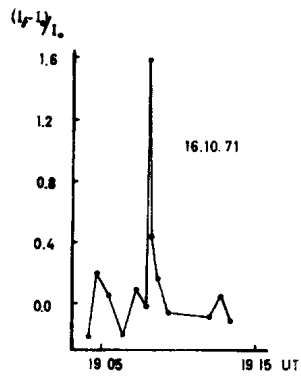
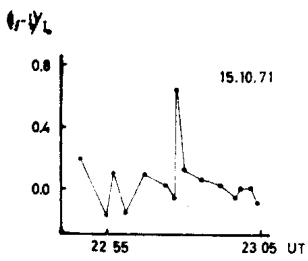
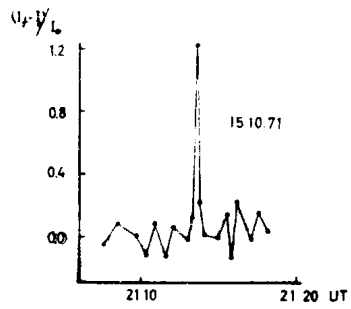
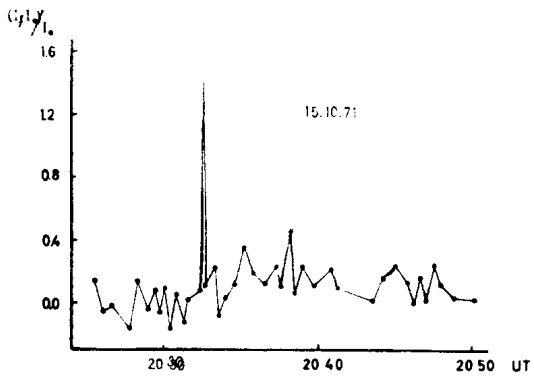
PHOTOELECTRIC OBSERVATIONS OF THE FLARE STAR UV Cet

The continuous photoelectric monitoring of the flare star UV Cet was carried out at the Crimean Astrophysical Observatory in the period of international patrol. October 11-27, 1971. The observations were made with the 64-cm meniscus telescope in the photometric system B. The coverage, characteristics of the observed flares and their light curves are given below. The explanation of designations and symbols can be found in Ref.1.

Date, 1971	Coverage (U.T.)
Oct.11	19 ^h 19 ^m -19 ^h 30 ^m ,1931-1937,1939-1955,1956-2015,2020-2034, 2035-2055,2058-2106,2107-2118,2120-2128,2134-2144, 2145-2155,2157-2224,2227-2234,2238-2253,2254-2349, 2354-2357,
12	1902-1935,1938-1959,2002-2032,2034-2044,2048-2103, 2106-2116,2118-2125,2127-2142,2144-2153,2155-2212, 2214-2215,2216-2234,2236-2250,2252-2319,2320-2325,
13	1845-1849,1850-1921,1923-1932,1933-1955,1958-2010, 2020-2036
14	1837-1840,1842-1919,1920-1932,1934-1947,1948-2011, 2012-2115,2117-2123,2125-2138,2139-2153,2154-2224, 2227-2315,2316-2337,2338-2400
15	0000-0001,0003-0017,0019-0029
16	1851-1910,1912-2103
20	1846-1850,1853-1947,1948-2020,2051-2107,2108-2126, 2128-2135,2138-2348.
21	1838-2131.







Characteristics of the flares observed

Date	U.T.	t_b	t_a	$(I_f - I_0)/I_0$	S/I_0	P_B
	maximum	min.		maximum		min.
1971						
Oct.						
11	20 25.8	0.2	5.4	0.82	± 0.04	0.98
11	20 37.9	0.2	5.4	0.71	0.06	0.48
11	20 59.1	-	11.7	3.54	0.08	6.74
12	20 04.6	0.15	0.15	2.01	0.16	0.30
12	20 36.1	0.1	0.1	0.72	0.16	0.21
12	20 49.1	0.1	0.8	0.74	0.09	0.17
12	20 59.5	3.5	3.0	0.35	0.09	0.72
13	18 51.7	0.5	3.6	1.36	0.25	1.49
13	19 14.0	0.1	6.8	2.66	0.17	1.86
13	19 51.7	0.2	3.8	1.06	0.09	0.77
14	19 28.3	0.1	3.1	1.81	0.13	0.74
14	21 13.2	0.4	7.1	4.90	0.09	4.32
14	21 57.8	0.3	0.3	0.57	0.09	0.17
15	20 32.5	0.1	17.7	1.62	0.11	2.72
15	21 13.6	0.3	4.6	1.22	0.09	0.48
15	22 59.5	0.1	5.3	0.64	0.14	0.19
16	19 08.0	0.1	5.3	1.58	0.15	0.40
20	21 42.4	0.2	5.9	2.05	0.11	1.46

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Crimean Astrophysical Observatory

Reference:

- 1 A.D.Andrews, P.F.Chugainov, R.E.Gershberg, V.S.Oskanian,
Comm.27 I.A.U. Inf.Bull.Var.Stars No.326, 1969.