

COMMISSION 27 OF THE I. A. U.
 INFORMATION BULLETIN ON VARIABLE STARS
 NUMBER 892

Konkoly Observatory
 Budapest
 1974 May 27

UBV OBSERVATIONS OF 31 CYGNI DURING THE 1972 ECLIPSE

On eight nights between May and July, 1972, photoelectric observations of 31 Cygni were made at the Fernbank Science Center Observatory using the 91 cm reflector. An unrefrigerated EMI 6256 photomultiplier tube was used with standard UBV filters. All observations of 31 Cygni were made differentially with respect to 26 Cygni, and have been transformed to the standard UBV system. Each table entry is an average of four separate observations.

JD (Hel) 2441000+	ΔV	ΔB	ΔU	JD (Hel) 2441000+	ΔV	ΔB	ΔU
442.7128	-1.208	-0.799	-0.187	501.7581	-1.253	-1.020	-1.109
.7495	-1.212	-0.785	-0.148	502.6217	-1.266	-1.090	-1.379
.7879	-1.212	-0.766	-0.118	.6431	-1.267	-1.084	-1.376
.8065	-1.207	-0.760	-0.114	.6638	-1.257	-1.079	-1.394
442.8279	-1.197	-0.744	-0.102	502.6753	-1.243	-1.065	-1.404
490.6643	-1.184	-0.729	-0.045	504.6261	-1.243	-1.042	-1.554
.7446	-1.195	-0.738	-0.049	.6477	-1.230	-1.068	-1.554
.7933	-1.184	-0.747	-0.052	504.6587	-1.225	-1.055	-1.546
490.8143	-1.185	-0.751	-0.067	510.7091	-1.257	-1.145	-1.743
491.6071	-1.167	-0.735	-0.071	.7381	-1.255	-1.138	-1.758
.6463	-1.195	-0.748	-0.075	.7657	-1.259	-1.146	-1.771
.6878	-1.190	-0.767	-0.073	510.8049	-1.261	-1.154	-1.775
.7491	-1.199	-0.747	-0.058	519.7415	-1.257	-1.131	-1.785
491.7785	-1.180	-0.728	-0.039	.7688	-1.243	-1.116	-1.758
501.6569	-1.269	-1.041	-1.052	.7953	-1.243	-1.116	-1.752
.6820	-1.261	-1.013	-1.058	519.8163	-1.239	-1.102	-1.760
.7214	-1.253	-1.015	-1.091				

It is noted that during the total phase of the eclipse (JD 2441490 and 491) and also outside of eclipse, variations as large as 0.03 were found in the ultraviolet. This variation is significantly greater than observational scatter would indicate, and has been previously reported by others (Lovell and Hall, PASP 85, 131, 1973; Bloomer and Wood, PASP 85, 348, 1973).

RICHARD M. WILLIAMSON
 Fernbank Observatory
 Atlanta, Georgia 30307
 U.S.A.