

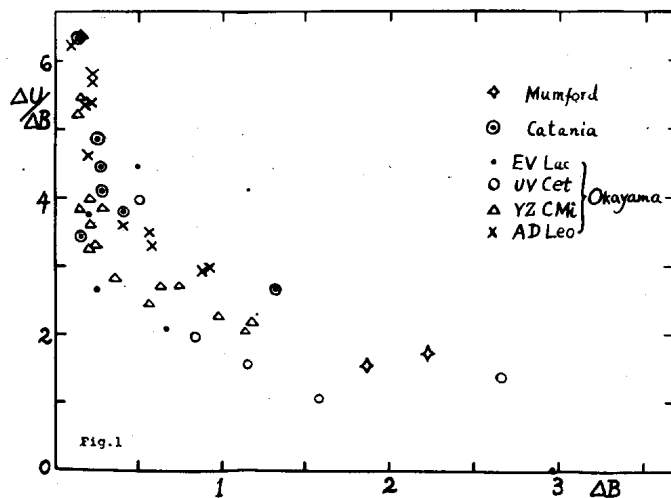
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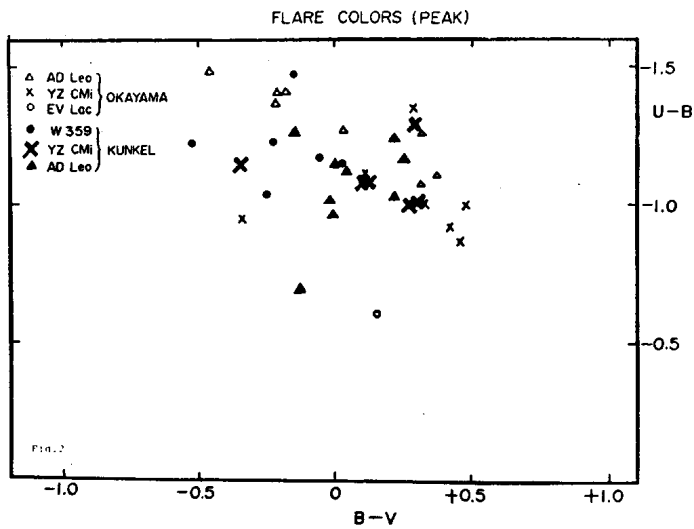
ANSWER TO IBVS NO 656

In the IBVS No. 656, an argument was presented criticizing our simultaneous three-color observations of flare stars at the Tokyo Astronomical Observatory. The present note is to answer this question.

1. The relation between $\Delta U/\Delta B$ and ΔB at maximum flare activity is shown in the Fig. 1 which compares our results with those of Cristaldi and Rodono (IBVS No. 525,600) and of Mumford (Publ.Astr.Soc. Pacific 81, 890, 1969). There seems to be no appreciable systematic difference between our results and other observers' results.



2. Another evidence supporting the correctness of our observations is the Fig. 2 in which color indices of the maximum flare activity are shown. Our values again show no systematic difference compared with Kunkel's values (Ap.J., 161, 503, 1970).



3. Our three-color photometer together with its amplifier and recorder has been carefully inspected, and no departure from linearity of response was found. The linearity of the equipment is further supported by actual observations of many photometric standard stars.

4. Our phototube, EMI 6256B has a somewhat different spectral response compared with RCA 1P21. If some sort of stellar flares having an unusually strong emission in the far ultraviolet is observed, there may appear a systematic difference in ΔU in the sense that 6256B emits less photoelectrons than 1P21 does. The low altitude (370 m above sea-level) of our observing station can exaggerate this effect by blocking radiations in the far ultraviolet. The observational material used in the IBVS No. 656 might include such cases. This point may be investigated in future observations.

K. OSAWA and K. ICHIMURA
Tokyo Astronomical Observatory