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NSV 11154 - A POSSIBLE NEW R CrB STAR

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NSV 11154 = USNO–A2.0 1350–09802429 = S9323 Lyr = ROTSE1 J183751.21+472324.5 has been discovered and reported to be a short periodic variable by Hoffmeister (1966).

Photographic plates (n=562) of a field centered around R Lyr, taken with the Sonneberg Observatory 40cm Astrograph between 1964-1996, were used to re-examine the behaviour of this star. Comparison stars are listed in Table 1.

The object is neither a short periodic variable nor a long periodic variable as surmised by Akerlof et al. (2000) according to the ROTSE1 data. Irregular variations with some conspicuous minima were found. The overall brightness varies between 13^m0 and 17^m2 (Fig. 1). The observed minima are variable in depth, with a mean duration of the order of 500^d.

Individual data can be retrieved as 5890–t2.txt, using the link in the HTML version of this paper.

Table 1. Comparison stars

Comp. No.	USNO	m*
1	1350-09796351	13 ^m 2
2	1350-09805484	14 ^m 8
3	1350-09803396	15 ^m 7
4	1350-09804973	17 ^m 5

* Magnitudes refer to the B values of the USNO–A2.0 catalogue

This research made use of the SIMBAD data base, operated by the CDS at Strasbourg, France.

References:

Akerlof, C. et al., 2000, *Astron. Journal*, **119**, 1901

Hoffmeister, C., 1966, *Astron. Nachr.*, **289**, 139, (H3)

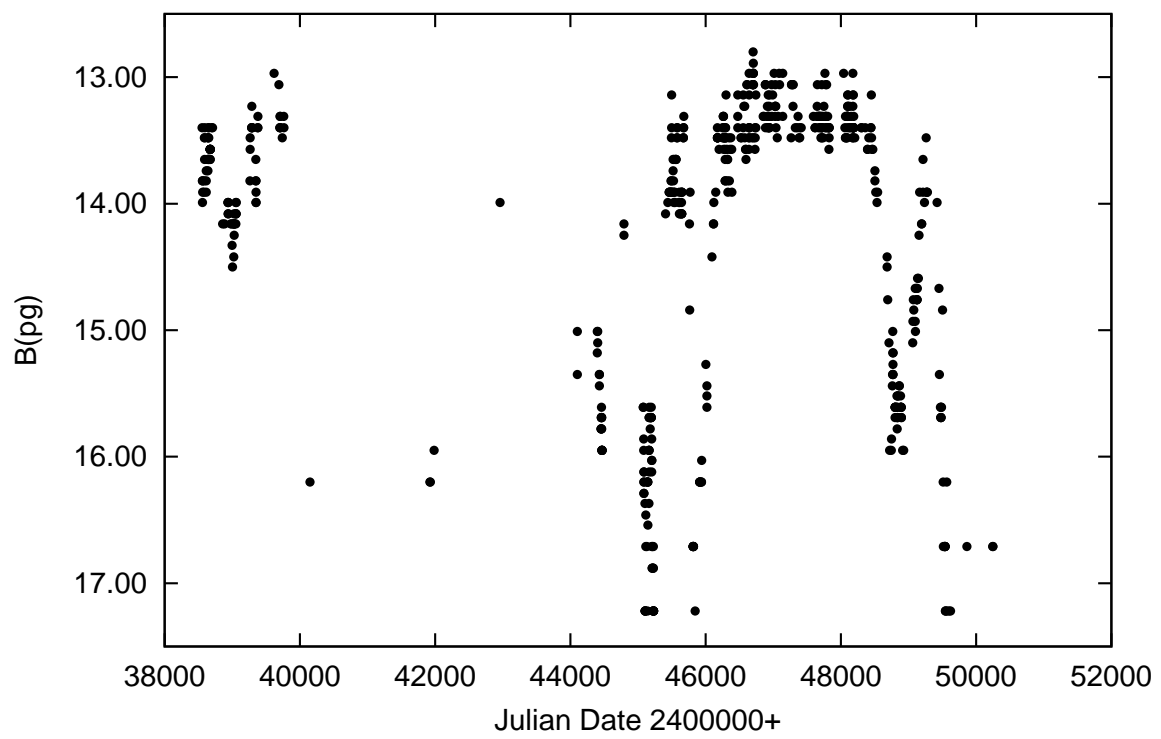


Figure 1. Photographic light curve of NSV 11154