ABSTRACT. 10 new variable stars were found by CRTS.

Key words: Stars: new variable stars.

The authors carried out investigation using the time series photometry data from the Catalina Real-Time Transient Survey (CRTS) in 2013-2015. About 3,000 new variable stars were found. The data for 10 the most recently discovered stars are presented in the journal Odessa Astronomical Publications.

SSS_J041936.0-502614

The star was discovered by I.I.Baluk.
The UCAC4 position of the star: RA = 04\textdegree{}19\textquotesingle{}35.937\textquotesingle{}, Dec = -50\textdegree{}26\textquotesingle{}51.03.

The star’s catalogue identifiers: the 2MASS identifier – J04193593-5026149; the USNO identifier – B1.0 0395-0035953; the UCAC4 identifier – 198-004300.

The star’s variability type: EA, the peak brightness is 15.40\textquotesingle{}, the minimum brightness is 16.07\textquotesingle{} (in the C and V band); the secondary minimum brightness is 15.70\textquotesingle{} (in the C and V band). The star’s light ephemerides are plotted in Figure 1. D = 0.18.

SSS_J065711.3-512110

The star was discovered by I.I.Baluk.
The UCAC4 position of the star: RA = 06\textdegree{}57\textquotesingle{}11.314\textquotesingle{}, Dec = -51\textdegree{}21\textquotesingle{}10.47.

The star’s catalogue identifiers: the 2MASS identifier – J06571131-5121104; the USNO identifier – B1.0 0386-0064392; the UCAC4 identifier – 194-009935.

The star’s variability type: SRA, the peak brightness is 11.80\textquotesingle{}, the minimum brightness is 12.70\textquotesingle{} (in the C and V band). The star’s light ephemerides are plotted in Figure 2. J-K = 1.35.

SSS_J195851.4-521601

The star was discovered by I.I.Baluk.
The PPMXL position of the star: RA = 19\textdegree{}58\textquotesingle{}51.384\textquotesingle{}, Dec = -52\textdegree{}16\textquotesingle{}01.80.

The star’s catalogue identifiers: the 2MASS identifier – J19585138-5216017; the USNO identifier – B1.0 0377-1050512.

The star’s variability type: EW, the peak brightness is 17.10\textquotesingle{}, the minimum brightness is 17.40\textquotesingle{} (in the C and V band).

The star’s light ephemerides are plotted in Figure 3.
SSS_J020922.2-525228

The star was discovered by A.L. Galinskiy. The UCAC4 position of the star: RA = 02°09′22.139″, Dec = -52°52′28″37″.

The star’s catalogue identifiers: the 2MASS identifier – J02092213-5252284; the USNO identifier – B1.0 0371-0017475; the GSC identifier – 08483-00062; the UCAC4 identifier – 186-001925.

The star’s variability type: SR, the peak brightness is 14.90 m; the minimum brightness is 15.29 m (in the C and V band). The star’s light ephemerides are plotted in Figure 4. J-K = 1.18.

SSS_J035759.1-515819

The star was discovered by A.L. Galinskiy. The PPMXL position of the star: RA = 03°57′59.139″, Dec = -51°58′19″39″.

The star’s catalogue identifiers: the 2MASS identifier – J03575913-5158193; the USNO identifier – B1.0 0380-0047211; the GSC identifier – 08073-00336.

The star’s variability type: SR, the peak brightness is 15.50 m; the minimum brightness is 15.98 m (in the C and V band). The star’s light ephemerides are plotted in Figure 5. J-K = 1.21.

SSS_J073103.3-525443

The star was discovered by A.L. Galinskiy. The UCAC4 position of the star: RA = 07°31′03.297″, Dec = -52°54′43″63″.

The star’s catalogue identifiers: the 2MASS identifier – J07310329-5254436; the USNO identifier – B1.0 0370-0086299; the UCAC4 identifier – 186-0123925.

The star’s variability type: SR, the peak brightness is 12.10 m; the minimum brightness is 12.90 m (in the C and V band). The star’s light ephemerides are plotted in Figure 6. J-K = 1.27.

SSS_J100550.3-282525

The star was discovered by A.L. Galinskiy. The UCAC4 position of the star: RA = 10°05′50.317″, Dec = -28°25′25″14″.

The star’s catalogue identifiers: the 2MASS identifier – J10055031-2825251; the USNO identifier – B1.0 0615-0234047; the GSC identifier – 06629-01092; the UCAC4 identifier – 308-062711.

The star’s variability type: EA, the peak brightness is 14.59 m; the minimum brightness is 14.90 m (in the C and V band); the secondary minimum brightness is 14.69 m (in the C and V band). The star’s light ephemerides are plotted in Figure 7. D = 0.16.

SSS_J101916.8-281924

The star was discovered by A.L. Galinskiy. The UCAC4 position of the star: RA = 10°19′16.838″, Dec = -28°19′25″02″.

The star’s catalogue identifiers: the 2MASS identifier – J10191683-2819250; the USNO identifier – B1.0 0616-0240796; the GSC identifier – 06630-00805; the UCAC4 identifier – 309-061750.
The star’s variability type: EB, the peak brightness is 14.30\(^{m}\); the minimum brightness is 14.60\(^{m}\) (in the C and V band); the secondary minimum brightness is 14.45\(^{m}\) (in the C and V band).

The star’s light ephemerides are plotted in Figure 8.

![Figure 8](image1)

**SSS_J073149.9-505012**

The star was discovered by A.L.Galinskiy.

The UCAC4 position of the star: RA = 07\(^{h}\)31\(^{m}\)49.879\(^{s}\), Dec = -50°50’12.”48.

The star’s catalogue identifiers: the 2MASS identifier – J07314986-5050124; the USNO identifier – B1.0 0391-0077713; the GSC identifier – 08145-00452; the UCAC4 identifier – 196-013096.

The star’s variability type: SRA, the peak brightness is 11.00\(^{m}\); the minimum brightness is 12.10\(^{m}\) (in the C and V band). The star’s light ephemerides are plotted in Figure 9. J-K = 1.36.

![Figure 9](image2)

**SSS_J200359.4-432015**

The star was discovered by A.L.Galinskiy.

The UCAC4 position of the star: RA = 20\(^{h}\)03\(^{m}\)59.430\(^{s}\), Dec = -43°20’15.”83.

The star’s catalogue identifiers: the 2MASS identifier – J20035942-4320158; the USNO identifier – B1.0 0466-0733718; the GSC identifier – 07959-00363; the UCAC4 identifier – 234-176574.

The star’s variability type: EB, the peak brightness is 13.85\(^{m}\); the minimum brightness is 14.05\(^{m}\), the secondary minimum brightness is 13.95\(^{m}\) (in the C and V band).

The star’s light ephemerides are plotted in Figure 10.

![Figure 10](image3)

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**References**

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