

Eight New Eclipsing Binaries

[A. V. Khruslov](#)

Institute of Astronomy, Russian Academy of Sciences, Moscow, Russia

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(E-mail for contact: khruslov@bk.ru)

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		USNO-A2.0 1500-01069711	01 01 54.29, +67 08 49.2	EA	13.57	13.82	R	1.8799	2451471.876	min		Comm. 1	1.PNG	chart1.PNG	NSVS 232996 NSVS 332685 NSVS 1640558 NSVS 1682946
2		GSC 3336-02092	04 11 24.01, +49 00 43.9	EA	13.4	13.7	R	1.3526	2451502.54	min		Comm. 2	2.PNG	chart2.PNG	NSVS 4248705 NSVS 4272677
3		GSC 2925-00290	06 03 33.35, +39 19 38.2	EW	13.65	14.05	R	0.257573	2451540.552	min		Comm. 3	3.PNG	chart3.PNG	NSVS 4539641
4		GSC 4537-00689	06 11 32.14, +81 52 54.9	EW	13.7	14.0	R	0.37760	2451500.797	min		Comm. 4	4.PNG	chart4.PNG	NSVS 86050 NSVS 111427 NSVS 585481 NSVS 632636
5		GSC 4566-01563	15 45 41.04, +80 36 10.4	EW	14.4	15.0	R	0.34676	2451450.822	min		Comm. 5	5.PNG	chart5.PNG	NSVS 1365 NSVS 1012688 NSVS 1047787 NSVS 1148838
6		GSC 4211-00096	17 41 09.30, +66 52 21.4	EW	12.4	12.7	R	0.38800	2451450.608	min		Comm. 6	6.PNG	chart6.PNG	NSVS 1099875 NSVS 2956110
7		USNO-A2.0 1200-19350667	22 37 08.39, +30 17 23.5	EW	13.7	14.2	R	0.33053	2451460.531	min		Comm. 7	7.PNG	chart7.PNG	NSVS 8908026 NSVS 8948504
8		GSC 2757-00493	22 52 59.60, +33 54 26.4	EB	13.8	14.4	R	0.6245	2451440.966	min		Comm. 8	8.PNG	chart8.PNG	NSVS 8926129 NSVS 8996478

Comments:

1. MinII = 13.78. The secondary minimum is away from the phase 0.5, indicating an eccentric binary. MinII – MinI = 0.525P. The ROTSE data with photometric correction flags were kept for the analysis.
2. MinII = 13.65. D = 0.12P. The ROTSE data with photometric correction flags were kept for the analysis.
3. MinII = 14.0.
4. MinII = 13.95. The ROTSE data with photometric correction flags were kept for the analysis.
5. MinII = 14.9. The ROTSE data with photometric correction flags were kept for the analysis.
6. MinII = 12.7. There is a fainter close companion GSC 4211-00231. The ROTSE data with photometric correction flags were kept for the analysis.
7. MinII = 14.1. The ROTSE data with photometric correction flags were kept for the analysis.
8. MinII = 14.2. The ROTSE data with photometric correction flags were kept for the analysis.

Remarks:

I present the discovery of eight new eclipsing binaries. My search for variables was carried out in the publicly available data of the Northern Sky Variability Survey ([NSVS](#), Wozniak et al. 2004). These observations were analyzed using the period-search software developed by Dr. V.P. Goranskij for Windows environment. The coordinates were drawn from the 2MASS catalog.

References:

Wozniak, P.R., Vestrand, W.T., Akerlof, C.W., et al., 2004, *Astron. J.*, 127, 2436