

New Eclipsing Binaries in the NSVS data

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		TYC 2269 0270 1	00 21 19.18, +35 24 15.4	EW	11.08	11.23	R	1.03257	2451505.709	min		Comm. 1	1.jpg	ch1.gif	NSVS 6331682
2		TYC 2297 1554 1	01 30 15.91, +33 39 18.5	EW	11.40	11.60	R	0.40633	2451484.437	min		Comm. 2	2.jpg	ch2.gif	NSVS 6449832 NSVS 6461365
3		TYC 4046 0396 1	02 32 09.62, +61 38 23.5	EA	11.65	12.35	R	1.3210	2451460.630	min	B2V	Comm. 3	3.jpg	ch3.gif	NSVS 1843795 NSVS 1874519
4		TYC 2332 0141 1	02 40 00.38, +35 18 17.1	EA	12.25	12.60	R	2.5785	2451461.657	min			4.jpg	ch4.gif	NSVS 6566941 NSVS 6578804
5		GSC 02366-00677	04 10 36.31, +34 02 58.1	EW	12.70	13.20	R	0.27048	2451439.815	min		Comm. 5	5.jpg	ch5.gif	NSVS 6720897
6		GSC 02381-01225	04 37 15.25, +33 48 48.9	EA	11.70	12.75	R	4.5281	2451453.816	min		Comm. 6	6.jpg	ch6.gif	NSVS 6809672
7		GSC 00775-01612	07 18 32.86, +14 59 44.2	EA	12.60	13.20	R	4.2430	2451520.699	min		Comm. 7	7.jpg	ch7.gif	NSVS 9943248
8		TYC 3884 1488 1	16 27 49.11, +58 50 23.3	EB	11.25	11.63	R	0.80272	2451358.740	min		Comm. 8	8.jpg	ch8.gif	NSVS 2827275
9		TYC 3891 0633 1	17 16 48.34, +54 46 14.7	EW	11.82	12.03	R	0.35396	2451358.744	min		Comm. 9	9.jpg	ch9.gif	NSVS 2909512
10		TYC 3896 0146 1	17 27 20.25, +56 22 29.9	EW	9.93	10.15	R	0.40346	2451484.611	min	F8	Comm. 10	10.jpg	ch10.gif	NSVS 2914581
11		GSC 03912-01210	18 23 52.12, +57 29 49.0	EA	12.80	14.60	R	3.21956	2451455.665	min		Comm. 11	11.jpg	ch11.gif	NSVS 2944175 NSVS 3030592
12		TYC 3929 1571 1	19 21 36.48, +56 50 35.3	EB	11.87	12.16	R	0.51245	2451352.867	min		Comm. 12	12.jpg	ch12.gif	NSVS 3069203
13		TYC 3925 0579 1	19 23 04.03, +56 08 04.8	EA	10.93	11.25	R	1.21742	2451478.640	min		Comm. 13	13.jpg	ch13.gif	NSVS 3070488

Comments:

1. Min II = 11.22.

2. Min II = 11.55.

3. ALS 7268, LS I +61 275. Min II = 11.80.

5. Min II = 13.14.

6. Min II = 11.82.

7. Min II = 12.78, O'Connell effect.

8. Min II = 11.50.

9. Min II = 12.01.

10. HD 238699, BD+56 1985. Min II = 10.15.

11. Probably can be identified with the X-ray source 1RXS J182351.4+572919. Min II = 13.15.

12. Min II = 12.05.

13. Min II = 11.10.

Remarks:

I present the discovery of 13 new eclipsing variables. A search for variables was carried out in the publicly available data of the Northern Sky Variability Survey (NSVS, Wozniak et al., 2004, also see <http://skydot.lanl.gov/nsvs>). These observations were analyzed using the period-search software developed by Dr. V.P. Goranskij for Windows environment. The coordinates were drawn either from the Tycho-2 or 2MASS catalogs.

References:

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