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Seven New Eclipsing Binaries

A. V. Khruslov
Russia, Tula

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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		TYC 2285 00495 1	00 54 45.44, +33 57 21.9	EB:	11.1	11.35	R	7.982	2451478.67	min		Comm. 1	1.PNG	chart1.PNG	NSVS 6370210
2		GSC 2345-01696	03 18 06.61, +32 20 59.7	EB	12.5	12.75	R	1.0576	2451496.557	min		Comm. 2	2.PNG	chart2.PNG	NSVS 6663300
3		TYC 3718 01489 1	04 02 30.70, +52 51 17.9	EB	10.4	11.05	R	5.5735	2451527.26	min	B1:p	Comm. 3	3.PNG	chart3.PNG	NSVS 2088282 NSVS 1989889 NSVS 4239237
4		USNO-A2.0 1200-03670312	05 42 35.59, +31 13 14.8	EA	13.35	13.9	R	1.2746	2451533.84	min		Comm. 4	4.PNG	chart4.PNG	NSVS 6987387
5		TYC 3865 00722 1	14 17 06.94, +58 57 32.7	EA	11.9	12.8	R	2.0297	2451418.798	min		Comm. 5	5.PNG	chart5.PNG	NSVS 2736626
6		GSC 3205-00905	22 38 51.33, +40 03 47.3	EA	13.7	14.3	R	1.5059	2451448.803	min		Comm. 6	6.PNG	chart6.PNG	NSVS 6114221
7		GSC 2749-00353	22 56 23.07, +31 42 02.6	EA	12.7	13.8	R	3.696	2451455.830	min		Comm. 7	7.PNG	chart7.PNG	NSVS 8999692

Comments:

1. MinII = 11.23. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

2. MinII = 12.7.

3. MinII = 10.8.

4. MinII = 13.85. D = 0.13P.

5. MinII = 12.0. D = 0.15P.

6. MinII = 14.0.

7. MinII = 12.9. D = 0.10P. The author discovered this star independently. It was earlier announced by Hoffman et al. (2008), where a twice longer period was suggested.

Remarks:

I present the discovery of seven new Eclipsing Binaries 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 from the 2MASS catalogs.

References:

Hoffman, D.I., Harrison, T.E., Coughlin, J.L. et al., 2008, Astron. J., 136, 1067
Wozniak, P.R., Vestrand, W.T., Akerlof, C.W. et al., 2004, Astron. J., 127, 2436