

## New Algol-Type Eclipsing Binaries II

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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 2833 01964 1	02 07 59.52, +40 17 56.2	EA	11.65	12.35	R	3.0155	2451510.265	min		<a href="#">Comm. 1</a>	<a href="#">1.PNG</a>	<a href="#">chart1.PNG</a>	<a href="#">NSVS 3973688</a>
2		GSC 4507-00064	02 17 59.88, +81 10 05.5	EA	13.0	13.7	R	1.2180	2451486.547	min		<a href="#">Comm. 2</a>	<a href="#">2.PNG</a>	<a href="#">chart2.PNG</a>	<a href="#">NSVS 272984</a> <a href="#">NSVS 329039</a> <a href="#">NSVS 416604</a> <a href="#">NSVS 468957</a>
3		GSC2.2 N31300105147	03 25 04.47, +58 40 49.5	EA:	13.0	13.8	R	1.1483	2451492.87	min		<a href="#">Comm. 3</a>	<a href="#">3.PNG</a>	<a href="#">chart3.PNG</a>	<a href="#">NSVS 1959367</a>
4		GSC 2906-00798	04 52 24.19, +43 19 55.0	EA	12.2	12.9	R	1.1600	2451528.66	min		<a href="#">Comm. 4</a>	<a href="#">4.PNG</a>	<a href="#">chart4.PNG</a>	<a href="#">NSVS 4354268</a>
5		TYC 2898 02778 1	04 57 51.42, +39 30 02.3	EA	12.45	13.2	R	1.4368	2451527.899	min		<a href="#">Comm. 5</a>	<a href="#">5.PNG</a>	<a href="#">chart5.PNG</a>	<a href="#">NSVS 4359555</a>
6		TYC 4092 1066 1	05 18 53.82, +65 42 33.0	EA	12.5	12.75	R	1.3846	2451522.42	min		<a href="#">Comm. 6</a>	<a href="#">6.PNG</a>	<a href="#">chart6.PNG</a>	<a href="#">NSVS 2187830</a> <a href="#">NSVS 2220908</a>
7		TYC 4081 00477 1	05 38 23.50, +61 17 25.3	EA	10.02	10.20	R	2.5978	2451508.70	min		<a href="#">Comm. 7</a>	<a href="#">7.PNG</a>	<a href="#">chart7.PNG</a>	<a href="#">NSVS 2226910</a> <a href="#">NSVS 2202159</a>
8		GSC 4408-01463	13 23 29.04, +74 54 08.9	EA	13.1	13.5	R	0.62808	2451463.758	min		<a href="#">Comm. 8</a>	<a href="#">8.PNG</a>	<a href="#">chart8.PNG</a>	<a href="#">NSVS 943895</a> <a href="#">NSVS 922186</a> <a href="#">NSVS 966708</a>
9		TYC 2548 00314 1	14 00 52.77, +34 00 57.3	EA	12.3	12.8	R	1.8584	2451429.63	min		<a href="#">Comm. 9</a>	<a href="#">9.PNG</a>	<a href="#">chart9.PNG</a>	<a href="#">NSVS 7709797</a>
10		TYC 4465 01210 1	21 25 27.20, +70 40 01.9	EA	10.85	11.45	R	2.02958	2451414.125	min		<a href="#">Comm. 10</a>	<a href="#">10.PNG</a>	<a href="#">chart10.PNG</a>	<a href="#">NSVS 1354021</a>
11		GSC 4473-00220	21 34 52.43, +73 36 46.9	EA	13.25	13.85	R	1.13858	2451460.917	min		<a href="#">Comm. 11</a>	<a href="#">11.PNG</a>	<a href="#">chart11.PNG</a>	<a href="#">NSVS 1359550</a>

### Comments:

1.  $\text{MinII} = 11.8$ .  $D = 0.15$  P.
2.  $\text{MinII} = 13.7$ .  $D = 0.12$  P. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. The use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the period more accurately.
3.  $\text{MinII} = 13.8$ . The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. The use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the period more accurately.
4.  $\text{MinII} = 12.3$ .  $D = 0.18$  P.
5.  $\text{MinII} = 13.1$ .  $D = 0.12$  P.
6.  $\text{MinII} = 12.75$ .  $D = 0.12$  P.  $B-V = 1.410$ .
7.  $\text{MinII} = 10.18$ . Eccentric binary system, the phase of  $\text{MinII}$  is  $0.44$  P.
8.  $\text{MinII} = 13.5$ .  $D = 0.10$  P.
9.  $\text{MinII} = 12.55$ .  $D = 0.10$  P.
10.  $\text{MinII} \geq 11.25$ .  $D = 0.10$  P.

11.  $\text{MinII} = 13.75$ .  $D = 0.10$  P. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. The use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the period more accurately.

**Remarks:**

I present the discovery of 11 new Algol-type eclipsing binaries (EA). 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:**

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