

## New Algol-Type Eclipsing Binaries

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	t <sub>type</sub>	Sp	Comment	L.Curve	Find.Chart	Data
1		TYC 2307 02000 1	01 56 31.86, +31 08 04.9	EA	11.9	12.24	R	2.012	2451492.12	min		<a href="#">Comm. 1</a>	<a href="#">1.gif</a>	<a href="#">chart1.gif</a>	<a href="#">NSVS 6480898</a>
2		TYC 4101 00007 1	06 42 42.65, +63 20 15.5	EA	12.7	13.0	R	2.902	2451529.18	min		<a href="#">Comm. 2</a>	<a href="#">2.gif</a>	<a href="#">chart2.gif</a>	<a href="#">NSVS 2341242</a>
3		GSC 3470-00515	13 45 42.20, +51 07 16.6	EA	12.7	14.3	R	2.3073	2451417.56	min		<a href="#">Comm. 3</a>	<a href="#">3.gif</a>	<a href="#">chart3.gif</a>	<a href="#">NSVS 5074941</a>
4		GSC 3470-00283	13 47 39.49, +51 48 34.7	EA	12.15	13.15	R	4.669	2451469.83	min		<a href="#">Comm. 4</a>	<a href="#">4.gif</a>	<a href="#">chart4.gif</a>	<a href="#">NSVS 2727033</a> <a href="#">NSVS 5075475</a>
5		TYC 3867 00846 1	15 00 38.61, +57 46 30.5	EA	12.05	14.4	R	1.54565	2451420.625	min		<a href="#">Comm. 5</a>	<a href="#">5.gif</a>	<a href="#">chart5.gif</a>	<a href="#">NSVS 2748740</a> <a href="#">NSVS 2799350</a>
6		GSC 4180-00715	15 06 27.73, +60 18 20.9	EA	13.3	13.7	R	1.27745	2451469.26	min		<a href="#">Comm. 6</a>	<a href="#">6.gif</a>	<a href="#">chart6.gif</a>	<a href="#">NSVS 2749562</a> <a href="#">NSVS 2770575</a> <a href="#">NSVS 2782172</a>
7		GSC 3870-01088	15 53 11.05, +54 09 06.5	EA	12.4	13.05	R	3.772	2451389.09	min		<a href="#">Comm. 7</a>	<a href="#">7.gif</a>	<a href="#">chart7.gif</a>	<a href="#">NSVS 2815225</a> <a href="#">NSVS 5206475</a>
8		TYC 3496 01109 1	15 56 57.01, +50 54 05.7	EA	11.6	13.2	R	1.6862	2451393.989	min		<a href="#">Comm. 8</a>	<a href="#">8.gif</a>	<a href="#">chart8.gif</a>	<a href="#">NSVS 5196306</a> <a href="#">NSVS 5207225</a>
9		TYC 3102 02222 1	18 09 21.84, +38 17 05.6	EA	10.3	10.7	R	3.5627	2451389.62	min		<a href="#">Comm. 9</a>	<a href="#">9.gif</a>	<a href="#">chart9.gif</a>	<a href="#">NSVS 5375508</a> <a href="#">NSVS 8094600</a>
10		TYC 3118 01163 1	18 42 32.19, +37 55 34.3	EA	12.0	12.35	R	1.4328	2451416.898	min		<a href="#">Comm. 10</a>	<a href="#">10.gif</a>	<a href="#">chart10.gif</a>	<a href="#">NSVS 5496270</a> <a href="#">NSVS 8232177</a>

### Comments:

1. MinII = 12.0, D = 0.10P.

2. D = 0.09P.

3. MinII = 12.8, D = 0.1P.

4. MinII = 12.45, D = 0.13P.

5. MinII = 12.25, D = 0.10P.

6. MinII = MinI, D = 0.11P.

7. MinII = 12.6, D = 0.1P.

8. MinII = 11.7, D = 0.11P.

9. BD+38 3092. MinII = 10.6, D = 0.08P. 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.

10. MinII = 12.15, D = 0.12P.

**Remarks:**

I present the discovery of 10 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 2MASS catalogs.

**References:**

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