

## Moscow Digital Variables. III

[D. Kolesnikova](#)<sup>#1</sup>, [K. V. Sokolovsky](#)<sup>#2,3</sup>, [S. V. Antipin](#)<sup>#2,1</sup>, [N. N. Samus](#)<sup>#1,2</sup>

#1. Institute of Astronomy, Russian Academy of Sciences;

#2. Sternberg Astronomical Institute;

#3. Astro Space Center of the Lebedev Physical Institute, Russian Academy of Sciences

Received: 24.09.2007; accepted: 19.10.2007

(E-mail for contact: [poocha@yandex.ru](mailto:poocha@yandex.ru))

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		USNO-A2.0 1200-17763925	21 21 27.80, +37 08 11.5	LB	15.85	16.6	pg			other		<a href="#">Comm. 1</a>	<a href="#">1.gif</a>	<a href="#">1ch.jpg</a>	<a href="#">1.dat</a>
2		USNO-A2.0 1200-17823588	21 23 03.32, +37 03 08.4	EA	15.4	16.0	pg	0.713744	2443668.898	min		<a href="#">Comm. 2</a>	<a href="#">2.gif</a>	<a href="#">2ch.jpg</a>	<a href="#">2.dat</a>
3		USNO-A2.0 1200-17832666	21 23 18.21, +35 41 10.6	EW	14.1	14.6	pg	0.45792	2444074.320	min		<a href="#">Comm. 3</a>	<a href="#">3.gif</a>	<a href="#">3ch.jpg</a>	<a href="#">3.dat</a>
4		USNO-A2.0 1200-17844316	21 23 37.87, +37 05 27.6	EA	14.6	15.3	pg	1.60384	2443668.195	min			<a href="#">4.gif</a>	<a href="#">4ch.jpg</a>	<a href="#">4.dat</a>
5		USNO-A2.0 1200-17869888	21 24 20.55, +37 08 44.2	EA	14.1	14.8	pg	1.40916	2444852.471	min		<a href="#">Comm. 5</a>	<a href="#">5.gif</a>	<a href="#">5ch.jpg</a>	<a href="#">5.dat</a>
6		USNO-A2.0 1200-17873443	21 24 26.78, +36 51 02.3	EW	15.15	15.75	pg	0.354408	2445257.308	min		<a href="#">Comm. 6</a>	<a href="#">6.gif</a>	<a href="#">6ch.jpg</a>	<a href="#">6.dat</a>
7		USNO-A2.0 1200-17983562	21 27 43.71, +35 40 25.7	EW	14.9	15.55	pg	0.325363	2443668.085	min		<a href="#">Comm. 7</a>	<a href="#">7.gif</a>	<a href="#">7ch.jpg</a>	<a href="#">7.dat</a>

### Comments:

1. NSVS data (Wozniak et al., 2004; also see <http://skydot.lanl.gov/nsvs>) confirms variability.

2. MinII 15.7.

3. GSC 2715-00971. MinII 14.5. A twice shorter period and type RRC are possible.

5. MinII 14.8.

6. MinII 15.7.

7. MinII 15.4.

**Remarks:**

We present new results of our pilot project of variable-star search using scanned photographic plates. The two square 1.5-to-1.5-degree regions in Cygnus studied in Kolesnikova et al. (2007) were re-examined, with new findings made for that centered at 21h24m44s, +36deg21'51" (J2000). The observing material, as earlier, were 175 photographic plates taken with the 40-cm astrograph in Crimea in 1975 - 1995 and scanned by one of the authors (D. Kolesnikova) at 2540 dpi resolution with the Sternberg Institute's CREO EverSmart Supreme II flatbed scanner. Our analysis made use of the VAST software (Sokolovsky & Lebedev, 2005), based on the well-known SExtractor (Bertin, 2006). Numerous candidates were automatically checked for periodicity using a specially written code based on the Lafler & Kinman's period-search method. We also applied the period-search WinEffect software developed by V. Goranskij for the Windows environment. Seven previously unreported variable objects were discovered. Properties of these variable stars are presented in the Table above. The coordinates are from the USNO-A2.0 catalog (Monet et al., 1998).

Acknowledgements: We gratefully acknowledge financial support from the RFBR (grants 05-02-16289 and 05-02-16688) and from the Program of Support for Leading Scientific Schools of Russia.

**References:**

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