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## PHOTOELECTRIC BVR<sub>c</sub> OBSERVATIONS AND CLASSIFICATION OF NSV 10183

Recently Antipin and Berdnikov (1996) found that NSV10183 (S9291; GSC 1008.1699,  $\alpha = 18^{h}05^{m}28^{s}95$ ,  $\delta = +7^{\circ}54'21''_{...1}$ , Epoch 2000) was a Cepheid variable with light elements:

 $MaxJDhel = 2444942.37 + 13.6299 \times E.$ 

But it was difficult to define a type of this Cepheid because there were no photoelectric observations then.

We observed NSV 0183 at Mt. Maidanak observatory in August 1996. The 60-cm reflector was used and 28  $BVR_c$  measurements (Table 1) were obtained. The accuracy of the individual data is near 0.01 mag in all filters. Light and color curves (Figure 1), constructed with the above elements, show that NSV 10183 is obviously a CWA type variable.

Figure 1 shows also that our observations do not satisfy the above elements. Using the new epoch of maximum (JD 2450321.23  $\pm$  0.10) together with the published ones (Antipin and Berdnikov, 1996) there are three variants of O-C diagram due possible miscalculation in the number of epochs (Figure 2). It is necessary to use plate collections to fill in the gap between JD 2447000 and 2450000, in order to improve light elements.

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Figure 1



Figure 2

Table 1									
JD hel	Phase	V	B - V	$V - R_c$	JD hel	Phase	V	B - V	$V - R_c$
2450000 +					2450000 +				
312.1726	.972	12.121	1.130	.658	0319.1702	.485	11.638	.887	.558
312.3365	.984	12.153	1.109	.647	0319.2905	.494	11.629	.874	.557
313.1876	.046	12.161	1.018	.648	0320.1721	.559	11.566	.957	.554
313.3034	.055	12.140	1.043	.636	0320.3035	.568	11.575	.964	.560
314.1637	.118	12.044	1.013	.607	0321.1587	.631	11.557	.995	.578
314.3073	.128	12.045	.983	.640	0321.2988	.641	11.566	.997	.576
315.1685	.192	12.032	.945	.600	0322.1529	.704	11.619	1.039	.609
315.2797	.200	12.030	.981	.601	0322.3008	.715	11.631	1.020	.593
316.1630	.265	11.979	.919	.573	0323.1558	.778	11.700	1.058	.619
316.2712	.272	11.942	.941	.566	0323.2988	.788	11.738	1.069	.610
317.1624	.338	11.838	.887	.566	0324.1618	.851	11.910	1.076	.666
317.3024	.348	11.822	.906	.533	0324.2956	.861	11.936	1.084	.660
318.1684	.412	11.707	.894	.555	0325.1590	.925	12.097	1.165	.667
318.2885	.420	11.698	.883	.545	0325.2878	.934	12.099	1.138	.679

## L.N. BERDNIKOV

O.V. VOZYAKOVA Sternberg Astronomical Institute 13, Universitetskij prosp. Moscow 119899, Russia

V.V. IGNATOVA Astronomical Institute 33, Astronomicheskaya ul. Tashkent 520000, Uzbekistan

Reference: Antipin, S.V., Berdnikov, L.N., 1996, *I.B.V.S.*, No. 4287