

Results of the Search for Variable Stars in the Framework of the "Noosphere" Project

[A. Vakhonin](#)^{#1,2}, [E. Kornilova](#)^{#2}, [E. Efremenko](#)^{#2}, [I. Sbitnev](#)^{#2}, [M. Truntov](#)^{#2}, [A. Guslyakov](#)^{#2}, [A. Sheludchenko](#)^{#2}, [O. Balandina](#)^{#2}, [A. Goriachih](#)^{#2}, [E. Grebenikova](#)^{#2}, [M. Reshetnikova](#)^{#2}, [K. Childinov](#)^{#2}, [K. Bobkov](#)^{#2}, [S. Yarmieva](#)^{#2}, [A. Prudko](#)^{#2}, [L. Kurilov](#)^{#2}, [V. Kolegova](#)^{#2}

#1. Division of Astronomy, Faculty of Physics, Lomonosov Moscow State University, Moscow, Russia;

#2. Education Support Fund "Noosphere", Moscow, Russia.

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(E-mail for contact: artemy.vahonin@gmail.com)

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		USNO-B1.0 0693-0111364	06 54 55.337, -20 40 49.25	EW	19.05	19.80	r	0.284021	2458464.900	min		Comm. 1	NOO-12-new.png	NOO12f.jpg	NOO12_r.txt
2		USNO-B1.0 0716-0102073	06 55 26.217, -18 18 07.58	EA	17.79	18.41	r	2.1597	2458464.913	min		Comm. 2	NOO-45-new.png	NOO45f.jpg	NOO45_r.txt
3		2MASS J06575880-1824346	06 57 58.816, -18 24 34.46	EW	17.96	18.34	r	0.366141	2458467.028	min		Comm. 3	NOO-46-new.png	NOO46f.jpg	NOO46_r.txt
4		2MASS J06591618-2042094	06 59 16.187, -20 42 09.40	EW	17.98	18.70	r	0.245688	2459194.881	min		Comm. 4	NOO-19-new.png	NOO19f.jpg	NOO19_r.txt
5		2MASS J07044374-2150253	07 04 43.755, -21 50 25.74	EW	17.92	18.32	r	0.345735	2458462.881	min		Comm. 5	NOO-60-new.png	NOO60f.jpg	NOO60_r.txt
6		2MASS J07052904-2120325	07 05 29.040, -21 20 32.63	EW	17.80	18.25	r	0.35909	2458455.943	min		Comm. 6	NOO-15-new.png	NOO15f.jpg	NOO15_r.txt
7		USNO-B1.0 0688-0115902	07 05 36.556, -21 11 16.22	EW	18.86	19.47	r	0.36762	2458455.938	min		Comm. 7	NOO-14-new.png	NOO14f.jpg	NOO14_r.txt
8		2MASS J07060359-2210464	07 06 03.602, -22 10 46.41	EW	18.02	18.43	r	0.432493	2458461.936	min		Comm. 8	NOO-58-new.png	NOO58f.jpg	NOO58_r.txt

Comments:

- NOO-12-Kornilova. MinII = 19.58. Discoverer: Kornilova Evgeniya.
- NOO-45-Childinov-Bobkov. MinII = 18.17. Rise/eclipse duration: 9%. Discoverers: Konstantin Childinov, Kirill Bobkov.
- NOO-46-Hanti-Mansiisk. MinII = 18.27. Discoverers: Sofia Yarmieva, Alexander Prudko.
- NOO-19-Balandina-Goriachih. MinII = 18.65. Discoverers: Olesya Balandina, Alexander Goriachih.
- NOO-60-Kurilov-Kolegova. MinII = 18.25. Discoverers: Lev Kurilov, Vladislava Kolegova.
- NOO-15-T-G-Sh. MinII = 18.15. Discoverers: Maxim Truntov, Alexey Guslyakov, Andrey Sheludchenko.
- NOO-14-Efremenko-Sbitnev. MinII = 19.3. Discoverers: Egor Efremenko, Ilya Sbitnev.
- NOO-58-GRA-REA. MinII = 18.39. Discoverers: Ekaterina Grebenikova, Maria Reshetnikova.

Remarks:

The variable stars were discovered within the framework of the Noosphere Education Support Fund project with the support of the Presidential Grants Fund and Sternberg Astronomical Institute of Moscow State University (SAI MSU). The search for variable stars was carried out using the ZTF project (Masci et al., 2019) data. Each star was discovered by schoolchildren, the authorship is indicated in the comments.

To perform photometry and to search for variable objects we used [VaST](#) software (Sokolovsky & Lebedev 2018).

The periodicity analysis was made with [Period search service](#). Coordinates are drawn from GAIA EDR3. The data files contain Julian dates, magnitudes and uncertainties.

References:

- Masci, F. J., Laher, R. R., Rusholme, B., et al., 2019, Publ. Astron. Soc. Pacific, 131, No. 995, 018003
Sokolovsky, K. V., Lebedev, A. A., 2018, Astron. and Computing, 22, 28