

Seventeen New Variable Stars

L. Sergey
Belarus, Molodechno

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(E-mail for contact: seriv76@tut.by)

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	ttype	Sp	Comment	L.Curve	Find.Chart	Data
1		GSC 02259-01000	00 04 14.57, +31 15 08.69	EW	13.17	13.50	R	0.39827	2451548.737	min		Comm. 1	1.png	chart1.png	6287631 6317145
2		GSC 01729-00218	00 05 39.52, +22 52 51.94	EW	13.20	13.55	R	0.32551	2451421.773	min		Comm. 2	2.png	chart2.png	6288999 9100669
3		GSC 02822-01999	01 34 09.56, +42 02 29.26	EW	13.55	14.15	R	0.37147	2451464.254	min		Comm. 3	3.png	chart3.png	3832791
4		GSC 02818-00684	01 37 28.12, +40 08 36.23	EW	14.05	14.60	R	0.30394	2451425.755	min		Comm. 4	4.png	chart4.png	3836478
5		GSC 02859-00340	03 04 04.17, +44 11 53.64	EW	12.95	13.40	R	0.42559	2451427.82	min		Comm. 5	5.png	chart5.png	4029011 4078904 4096211 4140999
6		GSC 02868-00263	03 55 47.10, +40 41 09.48	DSCT	13.35	13.65	R	0.19961	2451598.747	max		Comm. 6	6.png	chart6.png	4191289
7		GSC 03339-01484	04 01 58.83, +51 23 42.22	EA	13.60	14.50	R	0.67759	2451482.661	min		Comm. 7	7.png	chart7.png	2086374 4239139 1990880
8		GSC 03339-00471	04 04 46.33, +51 26 25.74	EW	13.45	14.30	R	0.81669	2451473.605	min		Comm. 8	8.png	chart8.png	1992850 2088861 4241709
9		GSC 02890-02347	04 18 18.51, +44 04 05.27	BY	12.90	13.07	R	1.60099	2451409.885	max			9.png	chart9.png	4274358 4209874 4321829
10		GSC 02892-00904	04 32 42.96, +44 37 38.78	EB	11.75	12.05	R	0.55428	2451427.844	min		Comm. 10	10.png	chart10.png	4221766 4271325 4289196 4335211
11		GSC 02910-00277	05 39 08.52, +39 17 13.10	EB	13.15	13.60	R	0.85936	2451623.628	min		Comm. 11	11.png	chart11.png	4402471 4511558
12		GSC 02937-01177	06 09 54.21, +44 36 02.04	RRC	13.40	13.85	R	0.31768	2451279.685	max			12.png	chart12.png	4499193 4547681
13		GSC 02930-02112	06 10 16.31, +40 11 05.34	EB	13.35	14.10	R	0.45046	2451571.799	min		Comm. 13	13.png	chart13.png	4547260
14		GSC 02970-01622	07 35 23.58, +44 57 59.76	EW	12.55	12.85	R	0.34759	2451465.786	min		Comm. 14	14.png	chart14.png	4713632 4745839
15		GSC 02970-00067	07 39 15.35, +44 43 57.92	EW	12.52	12.97	R	0.34614	2451449.656	min		Comm. 15	15.png	chart15.png	4716227 4748229
16		GSC 02971-01335	07 46 17.86, +44 24 18.50	RRC	11.45	11.87	R	0.33963	2451498.863	max			16.png	chart16.png	4721054 4752748
17		GSC 03895-00297	17 13 53.71, +56 40 50.60	RRC	13.40	13.80	R	0.37972	2451276.804	max			17.png	chart17.png	2908661

Comments:

1. MinII=13.43.
2. MinII=13.48.
3. MinII=14.0.

4. MinII=14.5.
5. MinII=13.32.
6. Data from [Catalina Sky Survey](#) (Drake et al., 2009) confirm the period.
7. MinII=14.25.
8. MinII=14.1.
10. MinII=11.8.
11. MinII=13.45.
13. MinII=13.67. Deformed light curve.
14. MinII=12.8.
15. MinII=12.92.

Remarks:

I present new variables discovered by data mining. My search for variables was carried out in the publicly available data of the [Northern Sky Variability Survey](#) (NSVS, Wozniak et al. 2004). These observations were analyzed using the period-search software developed by Dr. V.P. Goranskij for Windows environment and adjusted in the [VS-COMPAS group](#) for discovering variables by data mining. The coordinates were drawn from UCAC4 (Zacharias et al., 2013).

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References:

- Drake, A.J., Djorgovski, S.G., Mahabal, A., et al., 2009, *Astrophys. J.*, 696, 870
Wozniak, P.R., Vestrand, W.T., Akerlof, C.W., et al., 2004, *Astron. J.*, 127, 2436
Zacharias, N., Finch C.T., Girard T.M., et al., 2013, *Astron. J.*, 145, 44