

Investigation of 25 Early Type Suspected Variables

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1	NSV 11319	HV 10055	18 47 20.45, -53 03 40.8	EW	14.18	14.84	CV	0.457154	2455029.972	min		Comm. 1	11319lc.jpg	11319ch.jpg	11319dat.txt
2	NSV 11334	HV 10058	18 48 17.53, -55 23 40.7	EB	14.00	14.60	CV	0.470812	2456394.216	min		Comm. 2	11334lc.jpg	11334ch.jpg	11334dat.txt
3	NSV 11340	S 7125	18 49 03.61, -58 16 54.6	EA	14.40	16.17	CV	1.444560	2456149.040	min		Comm. 3	11340lc.jpg	11340ch.jpg	11340dat.txt
4	NSV 11497	S 7438	18 55 21.84, -47 55 02.0	RRAB	13.5	14.5	CV	0.440834	2456132.067	max		Comm. 4	11497lc.jpg	11497ch.jpg	11497dat.txt
5	NSV 11532	Ross 239	18 55 40.35, -09 14 57.4	EA	13.45	14.1	V	1.027055	2454576.855	min		Comm. 5	11532lc.jpg	11532ch.jpg	ASAS 185540-0914.9
6	NSV 11541	S 7441	18 56 46.80, -47 43 35.5	RRAB	14.14	14.87	CV	0.502404	2456214.980	max		Comm. 6	11541lc.jpg	11541ch.jpg	11541dat.txt
7	NSV 11491	BV 1132	18 56 57.76, -70 35 34.9	RRAB	13.60	14.45	CV	0.577402	2456089.233	max		Comm. 7	11491lc.jpg	11491ch.jpg	11491dat.txt
8	NSV 11702	S 9365	19 02 49.65, +53 47 18.2	RRAB	15.3	16.2	CV	0.595371	2454741.729	max		Comm. 8	11702lc.jpg	11702ch.jpg	11702dat.txt
9	NSV 11682	S 7457	19 03 48.85, -42 40 15.5	RRC	14.82	15.45	CV	0.317785	2456150.982	max		Comm. 9	11682lc.jpg	11682ch.jpg	11682dat.txt
10	NSV 11726	S 9366	19 04 23.98, +54 13 47.2	EW	15.32	16.0	CV	0.258758	2456077.773	min		Comm. 10	11726lc.jpg	11726ch.jpg	11726dat.txt
11	NSV 11739	Innes 164	19 07 09.53, -38 04 03.7	RRC	13.97	14.32	CV	0.314712	2454362.928	max		Comm. 11	11739lc.jpg	11739ch.jpg	11739dat.txt
12	NSV 11747	S 7462	19 08 06.72, -43 50 44.8	RRC	14.61	15.00	CV	0.320107	2456460.090	max		Comm. 12	11747lc.jpg	11747ch.jpg	11747dat.txt
13	NSV 11752	S 7465	19 08 46.65, -40 28 21.2	RRC	13.76	14.19	CV	0.388605	2456214.987	max		Comm. 13	11752lc.jpg	11752ch.jpg	11752dat.txt
14	NSV 11779	S 7467	19 11 27.10, -44 57 06.0	RRC	14.32	14.73	CV	0.314470	2455707.253	max		Comm. 14	11779lc.jpg	11779ch.jpg	11779dat.txt
15	NSV 11832	S 9373	19 12 21.06, +55 05 06.4	RRAB	15.0	<15.8	CV	0.697900	2456568.71	max		Comm. 15	11832lc.jpg	11832ch.jpg	11832dat.txt
16	NSV 11784	S 7132	19 12 34.32, -57 34 05.2	EA	15.10	15.80	CV	0.930115	2454945.166	min		Comm. 16	11784lc.jpg	11784ch.jpg	11784dat.txt
17	NSV 11825	BV 969	19 19 13.56, -79 22 20.4	RRAB	13.1	14.2	V	0.651238	2454357.639	max		Comm. 17	11825lc.jpg	11825ch.jpg	ASAS 191914-7922.3
18		SSS J19207.6-420539	19 21 07.62, -42 05 39.4	RRC	16.10	16.45	CV	0.310210	2456214.985	max		Comm. 18	18lc.jpg	18ch.jpg	18dat.txt
19		SSS J19315.2-305119	19 31 05.16, -30 51 19.4	RRAB	14.8	15.52	CV	0.677922	2455849.964	max			19lc.jpg	19ch.jpg	19dat.txt
20	NSV 12146	543.1933	19 34 16.81, -31 08 54.8	EW	14.46	14.76	CV	0.403191	2454297.056	min			12146lc.jpg	12146ch.jpg	12146dat.TXT
21	NSV 12157	544.1933	19 34 56.23, -30 49 12.0	RRAB	14.80	15.60	CV	0.465672	2455849.953	max			12157lc.jpg	12157ch.jpg	12157dat.TXT
22	NSV 12232	S 7187	19 39 28.64, -42 51 35.0	EW	13.91	14.48	CV	0.3511075	2454531.282	min			12232lc.jpg	12232ch.jpg	12232dat.txt
23	NSV 12240	S 7190	19 39 42.02, -43 12 23.5	EW	14.48	15.04	CV	0.366553	2456151.034	min			12240lc.jpg	12240ch.jpg	12240dat.TXT
24	NSV 12217	BV 1320	19 39 53.02, -63 42 26.9	RRAB	13.7	14.9	V	0.640183	2454583.893	max			12217lc.jpg	12217ch.jpg	ASAS 193953-6342.5
25	NSV 12389	S 7231	19 47 09.89, -37 40 14.4	RRC	15.07	15.48	CV	0.342178	2456060.295	max		Comm. 25	12389lc.jpg	12389ch.jpg	12389dat.txt

Comments:

1. MinII = 14.74 CV.
2. MinII = 14.21 CV.
3. MinII = 14.6: CV, D = 0.15 P.
4. Blazhko effect.
5. MinII = 13.65: V, D = 0.16 P.
6. M-m = 0.11 P. NE companion of 5" pair.
7. M-m = 0.16 P.
8. M-m = 0.17 P.
9. M-m = 0.29 P.
10. MinI may be changed to MinII.
11. M-m = 0.40 P. We recovered the variable suspected by Innes (1917). Finding charts for these variables have never been published before.
12. M-m = 0.45 P.
13. M-m = 0.43 P.
14. M-m = 0.41 P.
15. We analyzed observations from in the SuperWASP (Butters et al. 2010) and Catalina (Drake et al. 2009) Surveys.
16. MinII = 15.53 CV, D = 0.09 P.
17. M-m = 0.15 P.
18. M-m = 0.45 P. EW type with a twice longer period is also possible.
25. M-m = 0.45 P.

Remarks:

We calculated light elements and defined type of variability for 23 stars as a part of our work on improvement of the precise coordinates for variables in the electronic version of the NSV catalog (Samus et al. 2007–2015). Also we add to this list two stars numbered as #18 and #19. These additional objects were found as a consequence of recovery of Luyten's variables NSV 11908 and NSV 12086 respectively, both without published finding charts. We studied the variables using publicly available electronic archives of CCD observations of the ASAS-3 project (Pojmanski 2002) and the Catalina Sky Survey photometric data (Drake et al. 2009).

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