

Light Elements for 29 Semiregular Variables from the NSV Catalog

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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 08171	HV 3928	17 05 18.48, -23 34 28.7	SRA	12.7	14.5	V	249	2454135	max		Comm. 1	8171lc.jpg	8171ch.jpg	ASAS 170518-2334.5
2	NSV 08193	Houk 717	17 06 43.84, -18 48 42.3	SR	13.2	14.3	V	401		max	M4	Comm. 2	8193lc.jpg	8193ch.jpg	ASAS 170644-1848.7
3	NSV 08214	Houk 323	17 07 43.78, -18 09 15.4	SR	13.1	14.3	V	398		max	M4	Comm. 3	8214lc.jpg	8214ch.jpg	ASAS 170744-1809.3
4	NSV 08276	HV 10868	17 12 37.45, -39 31 01.5	RV	13.1	13.7	V	37.876	2453795.85	min		Comm. 4	8276lc.jpg	8276ch.jpg	ASAS 171237-3931.0
5	NSV 08322	IRAS 17102-1031	17 13 01.90, -10 34 42.0	SR	9.8	11.1	V	1125		max	M7	Comm. 5	8322lc.jpg	8322ch.jpg	ASAS 171302-1031.7
6	NSV 08416	Houk 154	17 15 49.92, -17 43 00.4	SR	12.3	14.6	V	101		max	M3	Comm. 6	8416lc.jpg	8416ch.jpg	ASAS 171550-1743.0
7	NSV 08454	BV 1696	17 17 32.82, -24 16 40.8	SR	13.3	14.9	V	121.5		max		Comm. 7	8454lc.jpg	8454ch.jpg	ASAS 171733-2416.7
8	NSV 08462	Houk 116	17 17 49.53, -17 58 17.0	SR	11.5	12.9	V	340		max	M3	Comm. 8	8462lc.jpg	8462ch.jpg	ASAS 171750-1758.3
9	NSV 08484	HV 10916	17 18 06.54, +09 08 01.2	SRB	13.0	14.4	V	149		max		Comm. 9	8484lc.jpg	8484ch.jpg	ASAS 171807+0908.0
10	NSV 08577	HV 9054	17 23 57.48, -49 29 27.6	SRA	11.9	<13.2	V	338	2454506	max		Comm. 10	8577lc.jpg	8577ch.jpg	ASAS 172358-4929.5
11	NSV 08581	Plaut 916	17 23 34.26, -20 47 54.9	SR	13.3	14.7	V	885		max		Comm. 11	8581lc.jpg	8581ch.jpg	ASAS 172334-2047.9
12	NSV 08594	HV 7703	17 25 57.63, -59 50 49.8	SR	12.9	14.1	V	410		max		Comm. 12	8594lc.jpg	8594ch.jpg	ASAS 172558-5950.8
13	NSV 08604	HV 7704	17 26 35.40, -61 16 44.9	SR	12.9	14.3	V	138.5		max		Comm. 13	8604lc.jpg	8604ch.jpg	ASAS 172635-6116.7
14	NSV 08648	HV 7712	17 27 54.55, -58 39 54.8	SR	12.5	13.2	V	316		max		Comm. 14	8648lc.jpg	8648ch.jpg	ASAS 172755-5839.9
15	NSV 08732	HV 9058	17 28 43.32, -48 54 59.3	SR	12.4	13.6	V	131		max		Comm. 15	8732lc.jpg	8732ch.jpg	ASAS 172843-4854.9
16	NSV 08774		17 31 20.01, -71 23 37.9	SR	11.6	13.0	V	117.5		max		Comm. 16	8774lc.jpg	8774ch.jpg	ASAS 173120-7123.6
17	NSV 09089	HV 10961	17 31 28.37, +02 18 37.8	SR	11.1	11.7	V	318		max		Comm. 17	9089lc.jpg	9089ch.jpg	ASAS 173128+0218.6
18	NSV 09250	HV 9085	17 38 31.76, -56 49 01.4	SR	13.3	15.4	V	92.1		max		Comm. 18	9250lc.jpg	9250ch.jpg	ASAS 173832-5649.0
19	NSV 09531	IRAS 17390+0803	17 41 28.32, +08 01 57.7	SR	12.9	14.2	V	576		max		Comm. 19	9531lc.jpg	9531ch.jpg	ASAS 174129+0802.0
20	NSV 09534	HV 9098	17 42 47.50, -43 46 35.3	SR	11.8	12.7	V	344		max		Comm. 20	9534lc.jpg	9534ch.jpg	ASAS 174248-4346.6
21	NSV 09566	HV 9099	17 43 51.78, -40 45 56.1	SR	10.5	11.6	V	422		max		Comm. 21	9566lc.jpg	9566ch.jpg	ASAS 174352-4045.9
22	NSV 09615	BD -7 4492	17 44 34.41, -07 51 21.7	SRB	8.3	8.6	V	42.7		max	M0	Comm. 22	9615lc.jpg	9615ch.jpg	ASAS 174434-0751.4

23	NSV 09693	HV 9116	17 48 08.31, -17 29 21.2	SR	12.5	<14.6	V	110.5		max		Comm. 23	9693LC.jpg	9693CH.jpg	ASAS 174808-1729.4
24	NSV 09799	HV 7020	17 53 23.29, -36 06 08.5	SR	12.5	13.5	V	49.5		max		Comm. 24	9799lc.jpg	9799ch.jpg	ASAS 175323-3606.1
25	NSV 09804	S 10352	17 52 41.93, +03 04 44.1	SR	12.5	<14.0	V	245		max		Comm. 25	9804lc.jpg	9804ch.jpg	ASAS 175242+0304.7
26	NSV 09839	HV 9143	17 55 19.03, -43 11 39.0	SR	13.1	13.9	V	326		max		Comm. 26	9839lc.jpg	9839ch.jpg	ASAS 175519-4311.6
27	NSV 09898	HV 6825	17 59 16.11, -56 46 46.1	SR	11.5	12.5	V	630		max		Comm. 27	9898lc.jpg	9898ch.jpg	ASAS 175916-5646.8
28	NSV 09959	HV 9169	18 02 38.61, -66 52 35.5	SRA	13.2	14.8	V	175	2454660	max		Comm. 28	9959lc.jpg	9959ch.jpg	ASAS 180239-6652.6
29	NSV 10040	HV 7958	18 03 40.80, -51 22 39.1	SRA	12.7	14.5	V	159.5	2454976	max		Comm. 29	10040lc.jpg	10040ch.jpg	ASAS 180341+5122.7

Comments:

1. HV 3928 was discovered by Woods (1926). No finding chart was available for this variable. We recovered the variable using US Naval Observatory Archive Images. J-K = 1.42.
2. J-K = 1.32.
3. J-K = 1.34.
4. MinII=13^m.5. J-K = 0.72.
5. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC-type star but with its secondary period (137^d). J-K = 1.62.
6. J-K = 1.21.
7. J-K = 1.42.
8. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC-type star but with a wrong period (153^d.1). J-K = 1.21.
9. J-K = 1.22. Note added in proof: Our result for this star has been confirmed by S. Otero (VSX database) after the submission of this paper.
10. HV 9054 was discovered by Luyten (1935). No finding chart was available for this variable. We recovered the variable using US Naval Observatory Archive Images. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC-type star but with a wrong period (194^d.4). J-K = 1.55.
11. J-K = 1.47.
12. J-K = 1.20.
13. J-K = 1.21.
14. J-K = 1.19.
15. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC-type star but with a somewhat different period (126^d.1). J-K = 1.34.
16. J-K = 0.82.
17. HV 10961 was discovered by Huruata (Boyce and Huruata 1942) and found, upon our request, by the late Dr. M.Hazen in Harvard Observatory's logbooks. No finding chart was available for this variable before. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC-type star but with a wrong period (34^d.2). J-K = 1.02.

18. J–K = 1.27.

19. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC-type star but with a wrong period ($151^{\text{d}}.7$). J–K = 1.31.

20. HV 9098 was discovered by Luyten (1936). No finding chart was available for this variable. We recovered the variable using US Naval Observatory Archive Images. J–K = 1.24.

21. HV 9099 was discovered by Luyten (1936). No finding chart was available for this variable. We recovered the variable using US Naval Observatory Archive Images. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC/SR-type star but with a wrong period ($385^{\text{d}}.1$). J–K = 1.33.

22. J–K = 1.46.

23. HV 9116 was discovered by Luyten (1937). No finding chart was available for this variable. We recovered the variable using US Naval Observatory Archive Images. J–K = 1.40.

24. J–K = 1.40.

25. J–K = 1.34.

26. HV 9143 was discovered by Luyten (1936). No finding chart was available for this variable. We recovered the variable using US Naval Observatory Archive Images. J–K = 1.00.

27. The star was also discovered in the ASAS-3 survey and enters their variable-star catalog as a MISC/SR-type star but with a wrong period ($118^{\text{d}}.0$). J–K = 1.34.

28. J–K = 1.30.

29. J–K = 1.09.

Remarks:

In our work aimed at improvement of the coordinates of variable stars in the NSV catalog (Samus et al. 2007–2012), we checked a number of poorly studied variables and found light elements and types for 29 of them. We were able to study the variables thanks to the publicly available electronic archives of CCD observations of the ASAS-3 project (Pojmanski 2002), and to images of the US Naval Observatory Image and Catalog Archive. In the results presented in the Table, Houk star numbers refer to N. Houk's discovery announcement (manuscript, 1968).

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