

A Study of Seventeen Variable Stars

[E. V. Kazarovets](#), [E. N. Pastukhova](#)

Institute of Astronomy, Russian Academy of Sciences, Moscow, Russia

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(E-mail for contact: helene@inasan.ru, pastukhova@sai.msu.ru)

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		GSC 0802-01232	08 11 16.00, +11 56 57.8	RV	11.2	11.5	V	66.25	54467.7	min		Comm. 1	081116lc.jpg	081116ch.jpg	ASAS 081116+1157.0
2		ASAS 091605-2339.3	09 16 05.45, -23 39 19.6	M	12.7	<15.0	V	228	53446	max		Comm. 2	091605lc.jpg	091605ch.jpg	ASAS 091605-2339.3
3	NSV 06438	IRAS 13441-6641	13 47 50.10, -66 56 43.3	M	13.4	<15.2	V	388:	54560	max	M9	Comm. 3	NSV6438lc.jpg	NSV6438ch.jpg	ASAS 134750-6656.7
4	NSV 06446	GSC 7266-01637	13 47 52.56, -31 04 01.3	RRAB	13.6	14.8:	V	0.488774	53898.5827	max		Comm. 4	NSV6446lc.jpg	NSV6446ch.jpg	ASAS 134753-3104.0
5	NSV 06447	IRAS 13450-6645	13 48 47.71, -67 00 04.8	M	12.5	<16.0	V	290	53831	max	M8		NSV6447lc.jpg	NSV6447ch.JPG	ASAS 134848-6700.1
6	NSV 06448	IRAS 13453-7156	13 49 27.43, -72 11 40.7	M	12.5	<15.0	V	353	53562	max			NSV6448lc.jpg	NSV6448ch.jpg	ASAS 134927-7211.7
7	NSV 06492	GSC 7802-01020	13 55 41.80, -44 38 56.9	EA	7.80	8.07	V	1.16553	54302.6004	min	A2	Comm. 7	NSV6492lc.jpg	NSV6492ch.jpg	ASAS 135542-4438.9
8	NSV 06501	GSC 3033-00298	13 55 51.99, +44 31 17.3	RRAB	13.5	14.6	R	0.54836	51361.7519	max		Comm. 8	NSV6501lc.jpg	NSV6501ch.jpg	NSVS 5092607
9	NSV 06495	HV 8552	13 56 59.48, -70 35 17.0	M	12.6	<15.0	V	171	54565	max			NSV6495lc.jpg	NSV6495ch.jpg	ASAS 135659-7035.3
10	NSV 06507	IRAS 13549-5606	13 58 17.12, -56 21 11.3	SRB	7.3	7.8	V	314		max	C		NSV6507lc.jpg	NSV6507ch.jpg	ASAS 135817-5621.2
11	NSV 06532	HV 8557	14 06 00.10, -68 44 12.2	M	13.5	<14.4	V	284	53464	max		Comm. 11	NSV6532lc.jpg	NSV6532ch.jpg	ASAS 140600-6844.2
12	NSV 06577	HV 8569	14 13 55.87, -76 13 05.9	M	14.1:	17.0:	R	224	51915	max		Comm. 12	NSV6577lc.jpg	NSV6577ch.jpg	ASAS 141356-7613.1
13	V541 Oph		17 37 35.38, -23 49 04.9	RV	13.1	14.7	V	58.9	52545.5	min		Comm. 13	V541lc.jpg	V541ch.jpg	ASAS 173735-2349.1
14		GSC 7909-01682	18 28 28.62, -42 51 25.1	M	12.0:	<15.6	R	227	54298	max		Comm. 14	182828lc.jpg	182828ch.jpg	ASAS 182829-4251.4
15		ASAS 184840-3933.3	18 48 40.12, -39 33 19.4	SRA	12.3	14.4	V	135.7	54365	max		Comm. 15	184840lc.jpg	184840ch.jpg	ASAS 184840-3933.3
16		IRAS 19000-1419	19 02 55.81, -14 15 01.8	SRA	11.7	<12.9	V	213	53642	max		Comm. 16	190255lc.jpg	190255ch.jpg	ASAS 190256-1415.0
17	IZ Del		20 36 38.38, +17 57 16.0	SRA	12.2	14.0	V	106.5	53643	max		Comm. 17	IZDELlc.jpg	IZDELch.jpg	ASAS 203638+1757.3

Comments:

1. Classified as an EC/CW star in the ASAS-3 catalogue.
2. The variability was discovered by Chen et al. (2006) who classified the star as a Mira with P = 200d.
3. The ASAS-3 range is for the combined brightness of the Mira and its neighbor.
4. M-m = 0.13.

7. $\text{MinI} = \text{MinII}$. $D = 0.21$.

8. $M-m = 0.15$.

11. The brightness limits from Luyten (1933b) are 15.4 - 18.2 pg.

12. The ASAS-3 range is for the combined brightness of the Mira and its neighbor. The limits, given in the Table, are our eye estimates of the star's brightness on the red images from the USNO Image and Catalogue Archive.

13. Classified as a CWA star in the ASAS-3 catalogue.

14. The ASAS-3 range is for the combined brightness of the Mira and its neighbor; classified as a CW star in the ASAS-3 catalogue.

15. Classified as a CW star in the ASAS-3 catalogue.

16. Classified as a CW star in the ASAS-3 catalogue. The ASAS-3 range is for the combined brightness of the SRA and its neighbor. Possibly a Mira variable.

17. Classified as a MISC star in the ASAS-3 catalogue and as a possible CW star with a period about 11 days in Richter (1970). $J - K = 1.1$ (2MASS).

Remarks:

We could study the variables thanks to the publicly available electronic archives of CCD observations of the ASAS-3 (Pojmanski, 2002), ROTSE-I/NSVS (Wozniak et al., 2004) surveys and the US Naval Observatory Image and Catalogue Archive (<http://www.nofs.navy.mil/data/FchPix/>). We recovered the variables NSV6438, NSV6447 and NSV6495 suspected by Luyten (1934), NSV6448 and NSV6507 suspected by Luyten (1933a), NSV6446 and NSV6532 suspected by Luyten (1933b). Finding charts for these suspected variables have been never published.

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