

## A Study of Six Variable Stars

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		GSC 3440-01097	10 11 08.85, +50 35 21.1	EW	13.70	14.25	R	0.383360	2451334.7176	min		<a href="#">Comm. 1</a>	<a href="#">1011lc.jpg</a>	<a href="#">1011ch.jpg</a>	<a href="#">NSVS 4922894</a>
2		GSC 8987-00075	12 25 44.59, -67 23 16.5	M	12.4	<14.2	V	338	2454939	max		<a href="#">Comm. 2</a>	<a href="#">1225lc.jpg</a>	<a href="#">1225ch.jpg</a>	<a href="#">ASAS 122545-6723.3</a>
3	NSV 07273	HV 10740	15 49 28.71, -17 33 53.9	RRC	13.8	14.3	V	0.380383	2454572.7716	max		<a href="#">Comm. 3</a>	<a href="#">1549lc.jpg</a>	<a href="#">1549ch.jpg</a>	<a href="#">ASAS 154929-1733.9</a>
4		HV 8945	16 45 54.89, -53 57 30.9	M	11.7	<14.7	V	400	2455070	max		<a href="#">Comm. 4</a>	<a href="#">1645lc.jpg</a>	<a href="#">1645ch.jpg</a>	<a href="#">ASAS 164555-5357.5</a>
5	NSV 11227	HV 9507	18 42 50.94, -27 08 55.0	M	13.1	<14.8	V	285	2454571	max		<a href="#">Comm. 5</a>	<a href="#">1842lc.jpg</a>	<a href="#">1842ch.jpg</a>	<a href="#">ASAS 184251-2708.9</a>
6		GSC 5179-00219	20 52 53.69, -00 38 00.3	RRAB	12.56	13.8	V	0.500601	2453547.8122	max		<a href="#">Comm. 6</a>	<a href="#">2052lc.jpg</a>	<a href="#">2052ch.jpg</a>	<a href="#">ASAS 205254-0038.0</a>

### Comments:

1. MinII 14.20 (R). The star's variability was announced by Nicholson et al. (2005) who published a wrong period (0.3217d).
2. This star was discovered by Nicholson and Whiting (2006) as an SRB variable without light elements. The ASAS-3 range is for the combined brightness of the Mira and its neighbor.
3.  $M-m = 0.33P$ . This star was discovered by Hanley (1942) who did not provide light elements.
4. Not identical to QY Ara. HV 8945 was discovered by Luyten (1935) who announced no light elements and found, upon our request, by D. Williams on Harvard plates. A finding chart for this variable has never been published.  $R = 15.6$  on the USNO Archive image of 1991.5852.
5. This star was discovered by Luyten (1937). No light elements and no finding chart were published for this variable. Now we have recovered this variable.  $R = 16.6$  on the USNO Archive image of 1992.4230. The ASAS-3 range is for the combined brightness of the Mira and its neighbor. Identical to Mis V1286.
6.  $M-m = 0.11P$ . A wrong period (0.33361d) was given by Wils et al. (2006).

### Remarks:

During our work on preparation of the 80-th Name List of Variable Stars, we checked several poorly studied variables and found new light elements for them.

We could study the variables thanks to the publicly available electronic archives of CCD observations of the ASAS-3 project (Pojmanski 2002), ROTSE1/NSVS project (Wozniak et al. 2004), and to images of the US Naval Observatory Image and Catalogue Archive (<http://www.nofs.navy.mil/data/FchPix/>). The variable NSV 11227 suspected by Luyten (1937) was recovered in the course of this study.

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