

Types of Variability and Light Elements for 13 New 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		2MASS 06540171-0739588	06 54 01.71, -07 39 58.9	SR	13.16	13.26	V	26.65	2455922.5	max		Comm. 1	1.jpg	ch1.jpg	1.txt
2		2MASS 08182270-3640377	08 18 22.70, -36 40 37.8	EW	14.80	15.5:	V	0.30802	2455191.525	min		Comm. 2	2.jpg	ch2.jpg	2.txt
3		GSC 07148-02929	08 39 08.62, -37 20 46.2	SR:	12.03	12.16	V	30	2455195.4	max		Comm. 3	3.jpg	ch3.jpg	3.txt
4		2MASS 08412219-4352562	08 41 22.19, -43 52 56.3	EW	14.08	14.54	V	0.362398	2455169.607	min		Comm. 4	4.jpg	ch4.jpg	4.txt
5		2MASS 09082209-5330251	09 08 22.09, -53 30 25.1	SR:	13.58	13.72	V	16	2455212.4	max		Comm. 5	5.jpg	ch5.jpg	5.txt
6		GSC 08612-01496	10 19 53.68, -59 01 05.9	SR:	13.13	13.25	V	16.6	2455181.5	max		Comm. 6	6.jpg	ch6.jpg	6.txt
7		GSC 08613-02296	10 32 00.89, -58 16 02.2	EA	10.10	10.40	V	3.9296	2454648.507	min	K0	Comm. 7	7.jpg	ch7.jpg	7.txt
8		GSC 08965-01714	10 48 41.66, -64 09 51.2	SR:	12.60	12.80	V	32.1	2455203.5	max		Comm. 8	8.jpg	ch8.jpg	8.txt
9		2MASS 15203087-7840153	15 20 30.88, -78 40 15.4	RRC	16.35	16.75	V	0.261505	2455686.308	max		Comm. 9	9.jpg	ch9.jpg	9.txt
10		2MASS 16204376-7139384	16 20 43.77, -71 39 38.5	EW	15.10	15.95	V	0.406391	2456074.467	min		Comm. 10	10.jpg	ch10.jpg	10.txt
11		2MASS 16211597-5333204	16 21 15.98, -53 33 20.4	EW:	14.45	15.20	V	0.8330	2456072.309	min		Comm. 11	11.jpg	ch11.jpg	11.txt
12		2MASS 16411862-4740475	16 41 18.62, -47 40 47.5	EB	14.15	15.10	V	0.391163	2456056.312	min		Comm. 12	12.jpg	ch12.jpg	12.txt
13		2MASS 19220701-1138331	19 22 07.01, -11 38 33.2	EW	16.7	17.4	V	0.29958	2456045.611	min		Comm. 13	13.jpg	ch13.jpg	13.txt

Comments:

1. B-V = 2.2, J-K = 1.416. ASAS-3 data were used to improve the results.

2. B-V = 0.8, J-K = 0.440.

3. $B-V = 2.0$, $J-K = 1.354$.
4. $B-V = 0.8$, $J-K = 0.483$. $\text{Min}_{\text{II}} = 14.51\text{V}$.
5. $B-V = 2.0$, $J-K = 1.263$.
6. $B-V = 1.0$, $J-K = 0.739$.
7. $B-V = 0.2$, $J-K = 0.151$. $\text{Min}_{\text{II}} = 10.39\text{V}$, $D = 0.10\text{P}$. ASAS-3 data were used to improve the results.
8. $B-V = 2.0$, $J-K = 1.332$.
9. $B-V = 0.3$, $J-K = 0.736$. $M-m = 0.40$.
10. $B-V = 0.7$, $J-K = 0.381$. $\text{Min}_{\text{II}} = 15.60\text{V}$.
11. $B-V = 0.7$, $J-K = 0.753$.
12. $B-V = 1.0$, $J-K = 0.588$. $\text{Min}_{\text{II}} = 14.7\text{V}$. ASAS-3 data were used to improve the results.
13. $B-V = 1.0$, $J-K = 0.497$.

Remarks:

In 2008–2012, we performed CCD observations of selected variable stars with the 76-cm telescope of the South African Astronomical Observatory (SAAO, Republic of South Africa). An SBIG ST-10XME CCD camera equipped with BVI filters of the Kron–Cousins system (Cousins 1976) was used. As a by-product of these observations, we discovered and studied 13 new variable stars. For period determination, we made use of the WinEfk software provided by V.P. Goranskij (Sternberg Astronomical Institute). In several cases, we were able to confirm brightness variations and improve variability periods using the publicly available electronic archive of CCD observations of the ASAS-3 project (Pojmanski 2002).

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References:

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