

New Variable Stars II

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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 2952-00316		07 11 49.46, +42 47 22.3	EW	12.23	12.45	SWASP	0.508020	2454438.566	min		Comm. 1	1.PNG	chart1.PNG	NSVS 4695775 ISWASP_data_1.txt
2	GSC 3396-02119		07 13 04.99, +48 31 51.2	EW	14.19	15.02	CV	0.3459504	2455000.698	min		Comm. 2	2.PNG	chart2.PNG	NSVS 4662315 CSS_data_2.txt ISWASP_data_2.txt
3	GSC 2956-00357		07 14 04.77, +44 38 44.3	EA	13.65	14.28	CV	2.1207395	2455528.02	min		Comm. 3	3.PNG	chart3.PNG	NSVS 4698298 NSVS 4662087 CSS_data_3.txt ISWASP_data_3.txt
4	GSC 3392-00221		07 14 31.54, +46 20 26.3	LB	12.3	12.55	R			other		Comm. 4	4.PNG	chart4.PNG	NSVS 4662853 NSVS 4699196
5	GSC 3400-00396		07 14 51.77, +49 56 49.5	EW	13.58	13.85	CV	0.817760	2454800.855	min		Comm. 5	5.PNG	chart5.PNG	NSVS 4663861 CSS_data_5.txt ISWASP_data_5.txt
6	USNO-A2.0 1275-06827878		07 14 56.50, +43 29 03.9	EA	13.59	14.01	CV	0.926817	2455005.905	min		Comm. 6	6.PNG	chart6.PNG	NSVS 4698686 CSS_data_6.txt ISWASP_data_6.txt
7	GSC 2948-00843		07 17 51.98, +40 58 26.7	EB or ELL	12.95	13.08	SWASP	1.15140	2454404.64	min		Comm. 7	7.PNG	chart7.PNG	NSVS 4700452 CSS_data_7.txt ISWASP_data_7.txt
8	GSC 2956-00840		07 18 11.53, +44 06 48.0	EB	13.0	13.25	R	1.50827	2454501.532	min		Comm. 8	8.PNG	chart8.PNG	NSVS 4701504 ISWASP_data_8.txt
9	GSC 3405-00330		07 19 23.67, +51 40 42.4	EW	13.20	13.75	CV	0.3220937	2454800.735	min		Comm. 9	9.PNG	chart9.PNG	NSVS 2330003 NSVS 2404677 NSVS 4667015 CSS_data_9.txt ISWASP_data_9.txt
10	TYC 3401 00730 1		07 21 37.82, +49 32 52.6	RS	11.23	11.44	SWASP	0.44879	2454501.515	max		Comm. 10	10.PNG	chart10.PNG	NSVS 4668125 ISWASP_data_10.txt
11	USNO-A2.0 1275-06888047		07 22 29.87, +41 03 16.9	EW or ELL	13.59	13.71	CV	0.2511428	2454500.530	min		Comm. 11	11.PNG	chart11.PNG	NSVS 4704251 CSS_data_11.txt ISWASP_data_11.txt
12	GSC 2965-01569		07 23 12.57, +42 33 37.3	EB	13.47	13.90	CV	0.440672	2455000.805	min		Comm. 12	12.PNG	chart12.PNG	NSVS 4705117 CSS_data_12.txt ISWASP_data_12.txt
13	GSC 2961-00550		07 23 33.62, +40 58 32.8	EW	12.41	12.53	SWASP	0.656584	2454100.741	min		Comm. 13	13.PNG	chart13.PNG	NSVS 4705093 ISWASP_data_13.txt
14	GSC 3397-00031		07 24 12.06, +48 43 01.4	EW	13.90	14.24	CV	0.792906	2454800.702	min		Comm. 14	14.PNG	chart14.PNG	NSVS 4669625 CSS_data_14.txt ISWASP_data_14.txt
15	GSC 3405-00349		07 25 30.12, +50 56 48.8	EW or ELL	12.99	13.16	CV	0.340617	2454500.621	min		Comm. 15	15.PNG	chart15.PNG	NSVS 4670593 CSS_data_15.txt ISWASP_data_15.txt
16	GSC 3405-00823		07 27 24.78, +51 28 34.5	LB	9.55	9.9	R			other		Comm. 16	16.PNG	chart16.PNG	NSVS 2409517 NSVS 4671682
17	GSC 2961-01023		07 28 19.66, +41 13 58.5	EW	13.09	13.25	CV	0.672027	2454801.610	min		Comm. 17	17.PNG	chart17.PNG	NSVS 4708762 CSS_data_17.txt ISWASP_data_17.txt
18	GSC 2966-00441		07 30 08.31, +42 44 11.9	EA	13.30	13.61	CV	0.747066	2454800.866	min		Comm. 18	18.PNG	chart18.PNG	NSVS 4710189 CSS_data_18.txt ISWASP_data_18.txt
19	GSC 2966-00624		07 30 13.51, +41 47 13.0	EW	13.89	14.44	CV	0.455655	2454800.662	min		Comm. 19	19.PNG	chart19.PNG	NSVS 4710186 CSS_data_19.txt ISWASP_data_19.txt
20	GSC 3409-01953		07 34 12.77, +48 18 33.6	EW	13.79	14.40	CV	0.3711148	2454800.697	min		Comm. 20	20.PNG	chart20.PNG	NSVS 4675247 NSVS 4745054 CSS_data_20.txt ISWASP_data_20.txt
21	GSC 3409-01170		07 36 47.12, +49 20 44.1	EW	13.07	13.43	CV	0.558480	2455000.535	min		Comm. 21	21.PNG	chart21.PNG	NSVS 4746456 CSS_data_21.txt ISWASP_data_21.txt
22	GSC 2966-00452		07 39 47.06, +42 56 39.3	EW	13.97	14.41	CV	0.3390002	2454400.515	min		Comm. 22	22.PNG	chart22.PNG	NSVS 4716668 CSS_data_22.txt ISWASP_data_22.txt
23	GSC 3409-01272		07 41 17.79, +49 28 43.3	EW	13.42	13.65	CV	0.271939	2454800.724	min		Comm. 23	23.PNG	chart23.PNG	NSVS 4749056 CSS_data_23.txt ISWASP_data_23.txt
24	TYC 3412 02040 1		07 42 08.93, +51 33 18.1	EA	11.72	11.95	R	1.99318	2451551.84	min		Comm. 24	24.PNG	chart24.PNG	NSVS 4749317 NSVS 2418495 CSS_data_24.txt ISWASP_data_24.txt
25	GSC 2967-00227		07 44 26.10, +41 43 07.2	EA	13.90	14.35	CV	0.4566415	2454800.558	min		Comm. 25	25.PNG	chart25.PNG	NSVS 4720070 CSS_data_25.txt ISWASP_data_25.txt
26	GSC 2967-00061		07 45 52.78, +42 03 43.0	EA	13.92	14.51	CV	1.83409	2454801.535	min		Comm. 26	26.PNG	chart26.PNG	NSVS 4721050 CSS_data_26.txt ISWASP_data_26.txt
27	TYC 2971 01335 1		07 46 17.85, +44 24 18.5	RRC	11.45	11.85	R	0.339597	2451500.565	max		Comm. 27	27.PNG	chart27.PNG	NSVS 4721054 NSVS 4752748 ISWASP_data_27.txt
28	GSC 3410-01017		07 46 58.14, +47 46 19.0	EA	13.35	14.07	CV	1.248785	2454438.60	min		Comm. 28	28.PNG	chart28.PNG	NSVS 4752612 CSS_data_28.txt ISWASP_data_28.txt
29	GSC 3410-00420		07 47 10.94, +48 53 18.0	EB	13.13	13.36	CV	0.736310	2455000.530	min		Comm. 29	29.PNG	chart29.PNG	NSVS 4752549 CSS_data_29.txt ISWASP_data_29.txt
30	GSC 2963-00184		07 47 50.30, +41 05 21.9	EW	13.33	13.93	CV	0.2921655	2454800.591	min		Comm. 30	30.PNG	chart30.PNG	NSVS 4722568 CSS_data_30.txt ISWASP_data_30.txt

31		GSC 3413-02477	07 48 33.47, +50 50 45.2	EA	12.95	13.45	SWASP	1.323625	2454532.417	min		Comm. 31	31.PNG	chart31.PNG	NSVS 4753019 CSS_data_31.txt ISWASP_data_31.txt
32		TYC 3407 01014 1	07 48 47.33, +45 46 43.6	EW	12.17	12.25	SWASP	0.2524572	2454501.411	min		Comm. 32	32.PNG	chart32.PNG	NSVS 4754104 NSVS 4722561 ISWASP_data_32.txt
33		GSC 2967-01223	07 49 12.02, +41 30 39.1	EB:	14.09	14.24	CV	4.9256	2455004.18	min		Comm. 33	33.PNG	chart33.PNG	CSS_data_33.txt ISWASP_data_33.txt
34		GSC 3410-00265	07 49 28.64, +49 20 25.1	EW	13.95	14.58	CV	0.403045	2455000.745	min		Comm. 34	34.PNG	chart34.PNG	NSVS 4753845 CSS_data_34.txt ISWASP_data_34.txt
35		GSC 3407-01121	07 50 11.01, +47 13 54.7	EW:	13.58	13.91	CV	0.2783845	2454800.646	min		Comm. 35	35.PNG	chart35.PNG	NSVS 4754701 CSS_data_35.txt ISWASP_data_35.txt
36		GSC 3407-02086	07 51 45.37, +46 02 54.4	SRD	11.9	12.1	R	67	2451575	max		Comm. 36	36.PNG	chart36.PNG	NSVS 4724463 NSVS 4755923
37		TYC 3407 01934 1	07 53 55.56, +46 20 26.5	EA	12.10	12.80	SWASP	4.07237	2454438.655	min		Comm. 37	37.PNG	chart37.PNG	NSVS 4725841 NSVS 4757224 ISWASP_data_37.txt
38		GSC 2968-00253	07 54 19.51, +43 02 11.6	EB	13.16	13.60	CV	0.564396	2454800.938	min		Comm. 38	38.PNG	chart38.PNG	NSVS 4726826 CSS_data_38.txt ISWASP_data_38.txt
39		TYC 3407 01832 1	07 55 38.23, +45 58 49.8	EA	11.28	11.54	SWASP	1.030471	2454501.577	min		Comm. 39	39.PNG	chart39.PNG	NSVS 4727074 NSVS 4758366 ISWASP_data_39.txt
40		GSC 3410-01451	07 56 42.28, +47 39 18.1	EA	13.12	13.68	CV	1.032391	2455178.778	min		Comm. 40	40.PNG	chart40.PNG	NSVS 4758580 CSS_data_40.txt ISWASP_data_40.txt
41		GSC 3410-02273	07 56 54.92, +47 46 23.1	EW	13.38	13.59	CV	0.663153	2455000.775	min		Comm. 41	41.PNG	chart41.PNG	NSVS 4758659 CSS_data_41.txt ISWASP_data_41.txt
42		GSC 3410-02131	07 57 22.51, +48 07 18.6	SRD	12.2	12.35	R	35.1	2451518	min		Comm. 42	42.PNG	chart42.PNG	NSVS 4758841
43		GSC 3407-02902	07 57 49.06, +46 16 23.3	EB	13.56	13.78	CV	0.919364	2454805.898	min		Comm. 43	43.PNG	chart43.PNG	NSVS 4759638 NSVS 4728437 CSS_data_43.txt ISWASP_data_43.txt
44		GSC 3410-01898	07 58 28.71, +49 04 10.0	SRD	11.7	12.0	R	30.6	2451517	max		Comm. 44	44.PNG	chart44.PNG	NSVS 4759231
45		GSC 3410-02530	07 58 34.01, +48 59 14.1	SRD	12.2	12.45	R	68.1	2451520	max		Comm. 45	45.PNG	chart45.PNG	NSVS 4759298 ISWASP_data_45.txt
46		GSC 2972-00926	07 58 56.88, +44 52 53.1	EW	13.46	13.84	CV	0.3116153	2454800.752	min		Comm. 46	46.PNG	chart46.PNG	NSVS 4729528 NSVS 4760762 CSS_data_46.txt ISWASP_data_46.txt
47		TYC 2964 01200 1	07 59 46.38, +41 04 35.7	EW	11.7	12.2	CV	0.414203	2454500.513	min		Comm. 47	47.PNG	chart47.PNG	NSVS 4731134 CSS_data_47.txt ISWASP_data_47.txt
48		TYC 3414 02129 1	08 02 23.47, +51 46 44.9	EW	12.66	12.83	SWASP	0.489115	2454501.473	min		Comm. 48	48.PNG	chart48.PNG	NSVS 4760603 NSVS 4775028 ISWASP_data_48.txt
49		GSC 3411-00842	08 02 24.05, +48 09 05.2	EW	14.06	14.47	CV	0.3194185	2455000.755	min		Comm. 49	49.PNG	chart49.PNG	NSVS 4761861 NSVS 4773472 CSS_data_49.txt ISWASP_data_49.txt
50		TYC 3414 02292 1, BD+52 1270	08 02 30.46, +51 54 11.0	EB	10.04	10.19	SWASP	0.513304	2454504.394	min	F5	Comm. 50	50.PNG	chart50.PNG	NSVS 2428574 NSVS 2428853 NSVS 4760636 NSVS 4775132 ISWASP_data_50.txt
51		GSC 3414-01621	08 03 27.29, +50 39 48.9	EA	13.70	14.18	CV	2.74734	2454553.42	min		Comm. 51	51.PNG	chart51.PNG	NSVS 4761617 NSVS 4775059 CSS_data_51.txt ISWASP_data_51.txt
52		GSC 2979-01135	08 04 52.63, +44 07 23.5	EW	13.16	13.54	CV	0.245968	2454800.723	min		Comm. 52	52.PNG	chart52.PNG	NSVS 4733654 NSVS 4773131 NSVS 4798888 CSS_data_52.txt ISWASP_data_52.txt
53		GSC 3414-01353	08 06 04.64, +50 20 42.8	EW or ELL	13.25	13.43	CV	0.682429	2455001.772	min		Comm. 53	53.PNG	chart53.PNG	NSVS 4763117 NSVS 4776244 CSS_data_53.txt ISWASP_data_53.txt
54		GSC 3408-02627	08 06 22.03, +46 17 15.7	LB	10.7	11.25	R			other		Comm. 54	54.PNG	chart54.PNG	NSVS 4733878 NSVS 4764632 NSVS 4774738 ISWASP_data_54.txt
55		GSC 2976-00653	08 07 48.75, +42 03 57.9	EA	13.63	14.28	CV	2.11660	2454805.534	min		Comm. 55	55.PNG	chart55.PNG	NSVS 4736204 NSVS 4799547 CSS_data_55.txt ISWASP_data_55.txt
56		TYC 3408 00557 1	08 08 39.87, +46 43 28.7	LB	9.45	9.75	R			other		Comm. 56	56.PNG	chart56.PNG	NSVS 4765747 NSVS 4776145 ISWASP_data_56.txt
57		GSC 2979-01248	08 11 36.37, +43 38 23.7	EA	13.46	14.05	CV	0.4541783	2454524.405	min		Comm. 57	57.PNG	chart57.PNG	NSVS 4738029 NSVS 4802332 CSS_data_57.txt ISWASP_data_57.txt
58		GSC 2976-01659	08 12 27.71, +42 11 40.7	EW or ELL	13.12	13.21	SWASP	0.328224	2454500.624	min		Comm. 58	58.PNG	chart58.PNG	NSVS 4739090 NSVS 4802309 CSS_data_58.txt ISWASP_data_58.txt
59		GSC 2980-01109	08 13 55.14, +43 25 26.5	EW	14.12	14.61	CV	0.2736082	2455000.743	min		Comm. 59	59.PNG	chart59.PNG	NSVS 4739509 NSVS 4803616 CSS_data_59.txt ISWASP_data_59.txt
60		GSC 3414-00581	08 14 42.89, +51 43 06.1	EW	13.21	13.49	CV	0.400695	2455000.739	min		Comm. 60	60.PNG	chart60.PNG	NSVS 4766940 NSVS 4781254 CSS_data_60.txt ISWASP_data_60.txt
61		GSC 3421-00812	08 15 29.11, +51 30 02.3	RS	12.75	12.84	SWASP	0.29734	2454500.721	max		Comm. 61	61.PNG	chart61.PNG	NSVS 4767382 NSVS 4781586 ISWASP_data_61.txt
62		GSC 3418-01104	08 16 36.36, +47 50 42.8	EW	13.28	13.42	SWASP	0.456212	2454500.898	min		Comm. 62	62.PNG	chart62.PNG	NSVS 4769381 NSVS 4780968 CSS_data_62.txt ISWASP_data_62.txt
63		GSC 3415-00059	08 21 41.70, +46 20 53.9	SRD	12.7	13.0	SWASP	33.50	2454542	max		Comm. 63	63.PNG	chart63.PNG	NSVS 4772264 NSVS 4783381 CSS_data_63.txt ISWASP_data_63.txt
64		GSC 3421-01203	08 24 33.54, +51 24 40.8	EW	12.7	13.2	CV	0.3465186	2454500.817	min		Comm. 64	64.PNG	chart64.PNG	NSVS 4786218 NSVS 2439413 NSVS 4771467 CSS_data_64.txt ISWASP_data_64.txt
65		GSC 2977-01458	08 24 45.87, +40 31 31.8	EW	13.54	13.91	CV	0.298226	2454500.516	min		Comm. 65	65.PNG	chart65.PNG	NSVS 4809089 CSS_data_65.txt ISWASP_data_65.txt
66		GSC 3418-01789	08 27 41.93, +47 41 29.1	SR	12.0	12.45	R	59	2451555	max		Comm. 66	66.PNG	chart66.PNG	NSVS 4787055
67		GSC 2978-00822	08 27 51.47, +41 47 18.7	BY	13.56	13.91	CV	13.01	2454403.5	max		Comm. 67	67.PNG	chart67.PNG	NSVS 4811120 CSS_data_67.txt ISWASP_data_67.txt
68		GSC 2978-00622	08 27 55.83, +40 56 27.8	EW	13.44	13.85	CV	0.296361	2454800.610	min		Comm. 68	68.PNG	chart68.PNG	NSVS 4811002 CSS_data_68.txt ISWASP_data_68.txt
69		TYC 2978 00275 1	08 30 47.93, +41 22 23.0	LB	9.66	10.25	R			other		Comm. 69	69.PNG	chart69.PNG	NSVS 4812785 ISWASP_data_69.txt
70		GSC 2978-00804	08 32 30.08, +42 14 00.2	EW or ELL	12.51	12.69	SWASP	0.424927	2454300.654	min		Comm. 70	70.PNG	chart70.PNG	NSVS 4813919 ISWASP_data_70.txt
71		TYC 3419 00330 1	08 35 50.48, +48 00 51.8	BY	12.2	12.3	SWASP	2.405	2454501.8	min		Comm. 71	71.PNG	chart71.PNG	NSVS 4791430 ISWASP_data_71.txt
72		TYC 3416 01142 1	08 36 20.91, +46 26 23.4	SRD	11.35	11.5	R	50.16	2451553	max		Comm. 72	72.PNG	chart72.PNG	NSVS 4791523 NSVS 4816488 ISWASP_data_72.txt

73	GSC 2978-00906	08 37 53.51, +42 06 56.0	EW	13.00	13.17	SWASP	0.345323	2454500.708	min	Comm. 73	73.PNG	chart73.PNG	NSVS 4816828 CSS_data_73.txt	ISWASP_data_73.txt
74	GSC 3422-01397	08 40 06.67, +50 18 25.4	EW	14.48	15.06	CV	0.2916716	2455000.699	min	Comm. 74	74.PNG	chart74.PNG	NSVS 4793644 CSS_data_74.txt	ISWASP_data_74.txt
75	TYC 2985 00960 1	08 43 28.53, +40 22 47.5	EB	12.20	12.32	SWASP	1.022972	2454150.217	min	Comm. 75	75.PNG	chart75.PNG	NSVS 4819589 ISWASP_data_75.txt	
76	GSC 2988-01338	08 44 59.81, +44 51 44.6	BY:	12.75	12.9	SWASP	4.8073	2454501.61	min	Comm. 76	76.PNG	chart76.PNG	NSVS 4795650 NSVS 4820485 ISWASP_data_76.txt	

Comments:

1. MinII = 12^m.37: (1SWASP). From ROTSE-I/NSVS data, 12^m.18–12^m.37, MinII = 12^m.31 in the R band.
2. MinII = 14^m.96 (CV). From 1SWASP data, 14^m.4–15^m.6 (1SWASPmag); from ROTSE-I/NSVS data, 14^m.5–15^m.3 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
3. D = 0.07 P. 13^m.6–14^m.0 (R, NSVS). Combined brightness of three stars: GSC 2956-00357 (= var), USNO-A2.0 1275-06820889, and USNO-A2.0 1275-06820690 was measured in NSVS and 1SWASP data, the measured amplitudes are considerably underestimated.
4. J–K = 1.195 (2MASS). The SWASP data confirm the irregular variability of this variable (1SWASP J071431.54+462026.4).
5. MinII = 13^m.83 (CV). From 1SWASP data, 13^m.8–14^m.05; from ROTSE-I/NSVS data, 13^m.85–14^m.05 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
6. D = 0.16 P. MinII = 14^m.01 (CV). From 1SWASP data, 14^m.0–14^m.45; from ROTSE-I/NSVS data, 13^m.95–14^m.45 in the R band.
7. MinII = 13^m.08 (1SWASP). From ROTSE-I/NSVS data, 12^m.95–13^m.1 in the R band; from CSS data, 12^m.75–12^m.9: in the CV band.
8. MinII = 13^m.2 (R). From 1SWASP data, 13^m.2–13^m.4, MinII = 13^m.3 .
9. MinII = 13^m.69 (CV). From 1SWASP data 13^m.7–14^m.2; from ROTSE-I/NSVS data, 13^m.55–13^m.95 in the R band.
10. J–K = 0.687 (2MASS), B–V = 1.453 (Tycho2). 1RXS J072141.1+493257. From ROTSE-I/NSVS data, 11^m.1–11^m.3 in the R band. According to NSVS data, the light elements are: JD(max) 2451500.695 + 0.44867×E. The light curve shape possibly varies.
11. MinII = 13^m.71 (CV). From 1SWASP data, 13^m.70–13^m.80; from ROTSE-I/NSVS data, 13^m.5–13^m.6 in the R band. Combined brightness of two stars, USNO-A2.0 1275-06888047 and USNO-A2.0 1275-06887689, was measured in the NSVS.
12. MinII = 13^m.69 (CV). From 1SWASP data, 13^m.43–13^m.66; from ROTSE-I/NSVS data, 13^m.05–13^m.15 in the R band. Combined brightness of two stars, GSC 2965-01569 (=var) and GSC 2965-01608, was measured in the NSVS and 1SWASP, the tabulated amplitudes are considerably underestimated. The star has a faint close companion 2MASS 07231301+4233386, unresolved in the CSS.
13. MinII = 12^m.52 (1SWASP). From ROTSE-I/NSVS data, 12^m.56–12^m.75, MinII = 12^m.74 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
14. MinII = 14^m.21 (CV). From 1SWASP data, 14^m.15–14^m.5; from ROTSE-I/NSVS data, 14^m.2–14^m.7: in the R band.
15. MinII = 13^m.15 (CV). From 1SWASP data, 13^m.48–13^m.62; from ROTSE-I/NSVS data, 13^m.25–13^m.4 in the R band. According to NSVS data, the light elements are: JD(min) 2451500.578 + 0.34062×E. The ROTSE data with photometric correction flags were kept for the analysis.
16. J–K = 1.303 (2MASS). IRAS 07235+5134. The ROTSE data with photometric correction flags were kept for the analysis. Type SR is also not excluded.
17. MinII = 13^m.24 (CV). From 1SWASP data, 12^m.87–12^m.98, MinII = 12^m.95; from ROTSE-I/NSVS data, 12^m.95–13^m.05 in the R band.
18. D = 0.13 P. MinII = 13^m.40 (CV) From 1SWASP data, 13^m.75–14^m.1, MinII = 13^m.85; from ROTSE-I/NSVS data, 13^m.6–13^m.95 in the R band. According to NSVS data, the light elements are: JD(min) 2451501.870 + 0.74707×E. The ROTSE data with photometric correction flags were kept for the analysis.
19. MinII = 14^m.38 (CV). From 1SWASP data, 14^m.5–15^m.05, MinII = 15^m.0; from ROTSE-I/NSVS data, 14^m.3–14^m.9 in the R band.
20. MinII = 14^m.26 (CV). From 1SWASP data, 14^m.2–14^m.8, MinII = 14^m.7; from ROTSE-I/NSVS data, 14^m.1–14^m.7, MinII = 14^m.6 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
21. MinII = 13^m.36 (CV). From 1SWASP data, 13^m.25–13^m.5; from ROTSE-I/NSVS data, 13^m.2–13^m.45 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
22. MinII = 14^m.34 (CV). From 1SWASP data, 14^m.34–14^m.66, MinII = 14^m.61 (1SWASPmag). The ROTSE data with photometric correction flags were kept for the analysis.
23. MinII = 13^m.63 (CV). From 1SWASP data, 13^m.7–13^m.95; from ROTSE-I/NSVS data, 13^m.6–13^m.85 in the R band. According to NSVS data, the light elements are: JD(min) 2451500.765 + 0.27194×E.

24. MinII = 11^m.80 (R). In our analysis of ISWASP data, nights with a large scatter of data points around the light curve were disregarded.
25. D = 0.22 P. MinII = 14^m.17 (CV). From 1SWASP data, 13^m.8–14^m.05; from ROTSE-I/NSVS data, 13^m.8–14^m.0 in the R band. Combined brightness of two stars, GSC 2967-00227 (=var) and GSC 2967-00606, was measured in the NSVS and 1SWASP, the measured amplitudes are too low. The ROTSE data with photometric correction flags were kept for the analysis.
26. D = 0.10 P. MinII = 14^m.50 (CV). From 1SWASP data, 12^m.15–12^m.6. No period could be derived from NSVS data because of a small number of observations and their large uncertainties. Combined brightness of two stars, GSC 2967-00061 (=var) and GSC 2967-00443, was measured in the NSVS and 1SWASP, the corresponding amplitudes are somewhat too low. It is unclear why the 1SWASP observations result in brighter magnitudes for this star, not explainable with blending, see also No. 35. Some 1SWASP observations (not plotted) give magnitudes close to those measured in the CSS survey. The median magnitude in ROTSE-I/NSVS data is 14.^m1.
27. The variability of TYC 2971 1335 1 was independently discovered by Sergey (2013). B–V = 0.055 (Tycho2), J–K = 0.242 (2MASS). From 1SWASP data, 11^m.25–11^m.65. The ROTSE data with photometric correction flags were kept for the analysis.
28. D = 0.20 P. MinII = 13^m.56 (CV). Combined brightness of two stars, GSC 3410-01017 (=var) and GSC 3410-01216, was measured in the NSVS and 1SWASP, the tabulated amplitudes are considerably underestimated.
29. MinII = 13^m.26 (CV). From 1SWASP data, 13^m.3–13^m.55, MinII = 13^m.4; from ROTSE-I/NSVS data, 13^m.45–13^m.7, MinII = 13^m.6 in the R band.
30. The variability of GSC 2963-00184 was independently reported by I. Sergey (Astrobloknote Team) in 2013 to the <http://www.aavso.org/vsx/> database, on the base of ROTSE-I/NSVS and CSS data. MinII = 13.^m85 (CV). J–K = 0.427 (2MASS). From 1SWASP data, 13^m.75–14^m.40, MinII = 14^m.35; from ROTSE-I/NSVS data, 13^m.65–14^m.2, MinII = 14^m.15 in the R band. According to NSVS data, the light elements are: JD(min) 2451450.613 + 0.292166×E. The ROTSE data with photometric correction flags were kept for the analysis.
31. D = 0.18 P. MinII = 13^m.0 (1SWASP). From ROTSE-I/NSVS data, 13^m.0–13^m.5, MinII = 13^m.1 in the R band; from CSS data, 12^m.63–13^m.18 (CV).
32. MinII = 12^m.24 (1SWASP). From ROTSE-I/NSVS data, 12^m.21–12^m.32, MinII = 12^m.31 in the R band.
33. MinII = 14^m.21 (CV). From 1SWASP data, 13^m.85–13^m.95. The star's variability was first suspected from NSVS data, but, there being too few NSVS data points, with too high uncertainties, we could not get a reasonably good NSVS light curve for this variable.
34. The variability of GSC 3410-00265 was independently discovered by Palaversa et al. (2013) in the LINEAR Survey. From 1SWASP data, 13^m.83–14^m.18, MinII = 14^m.17; from ROTSE-I/NSVS data, 14^m.2–14^m.6 in the R band. Combined brightness of two stars, GSC 3410-00265 (=var) and the faint neighbor USNO-A2.0 1350-07221103, was measured in the NSVS and 1SWASP, the measured amplitudes are somewhat underestimated. According to CSS data, the depth of minima varies.
35. MinII = 13^m.84 (CV). According to CSS data, the mean brightness varies. From 1SWASP data, 11^m.55–11^m.9, MinII = 11^m.75; from ROTSE-I/NSVS data, 13^m.8–14^m.1 in the R band. The light curve shape possibly varies. It is unclear why the 1SWASP observations result in brighter magnitudes for this star, not explainable with blending, see No. 26. Some 1SWASP observations (not plotted) give magnitudes close to those measured in the CSS survey.
36. J–K = 0.674 (2MASS). The ROTSE data with photometric correction flags were kept for the analysis.
37. D = 0.08 P. MinII = 12^m.76 (1SWASPmag). From ROTSE-I/NSVS data, 12.^m2–12^m.85 in the R band. A twice shorter period is not excluded.
38. MinII = 13^m.43 (CV). J–K = 0.150 (2MASS). From 1SWASP data, 13^m.5–13^m.9, MinII = 13^m.7; from ROTSE-I/NSVS data, 13^m.6–14^m.0 in the R band.
39. D = 0.12 P, d = 0.04 P. MinII = 11^m.33: (1SWASP). From ROTSE-I/NSVS data, 11^m.38–11^m.63, MinII = 11^m.44: in the R band.
40. D = 0.09P. MinII = 13^m.38: (CV). Combined brightness of three stars: GSC 3410-01451 (=var), USNO-B1.0 1376-0227004, and GSC 3410-01895, was measured in NSVS and 1SWASP, the tabulated amplitudes are too low. Probably, the CSS did not resolve the pair consisting of GSC 3410-01451=var and USNO-B1.0 1376-0227004.
41. MinII = 13^m.52 (CV). From 1SWASP data, 13^m.64–13^m.82, MinII = 13^m.75; from ROTSE-I/NSVS data, 13^m.72–13^m.94 in the R band.
42. J–K = 0.710 (2MASS).
43. MinII = 13^m.69 (CV). From 1SWASP data, 13^m.27–13^m.41; from ROTSE-I/NSVS data, 13^m.3–13^m.4 in the R band. Combined brightness of three stars: GSC 3407-02902 (=var), USNO-A2.0 1350-07260524, and USNO-A2.0 1350-07260699, was measured in NSVS and 1SWASP, our amplitudes are too low.
44. J–K = 0.735 (2MASS).
45. J–K = 0.721 (2MASS). From 1SWASP data, 12^m.75–13^m.15. The CSS data confirm the semiregular variability.
46. MinII = 13^m.81 (CV). From 1SWASP data, 13^m.85–14^m.17, MinII = 14^m.14; from ROTSE-I/NSVS data, 13^m.7–14^m.0 in the R band. Combined brightness of two stars, GSC 2972-00926 (=var) and GSC 2972-00725, was measured in NSVS and 1SWASP, the amplitudes we find are somewhat underestimated.
47. MinII = 12^m.15 (CV) Combined brightness of two stars, TYC 2964 01200 1 (= var) and GSC 2964-01181, was measured in NSVS and 1SWASP, the amplitudes we found are considerably underestimated.
48. MinII = 12^m.81 (1SWASP). From ROTSE-I/NSVS data, 12^m.65–12^m.85, MinII = 12^m.80 in the R band.

49. MinII = 14^m.42 (CV). From 1SWASP data, 14^m.25–14^m.65, MinII = 14^m.6; from ROTSE-I/NSVS data, 14^m.2–14^m.6 in the R band.
50. MinII = 10^m.12 (1SWASP). From ROTSE-I/NSVS data, 10^m.15–10^m.3 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
51. D = 0.07 P. MinII = 14^m.14 (CV). From 1SWASP data, 14^m.3–14^m.8, MinII = 14^m.75; from ROTSE-I/NSVS data, 14^m.0–14^m.5 in the R band.
52. MinII = 13^m.49 (CV). From 1SWASP data, 13^m.37–13^m.72, MinII = 13^m.68; from ROTSE-I/NSVS data, 13^m.4–13^m.75 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.
53. MinII = 13^m.41 (CV). From 1SWASP data, 13^m.23–13^m.32, MinII = 13^m.30; from ROTSE-I/NSVS data, 13^m.45–13^m.65 in the R band.
54. IRAS 08028+4625. J–K = 1.289 (2MASS). From 1SWASP data, 12^m.55–12^m.9 (1SWASP). The ROTSE data with photometric correction flags were kept for the analysis.
55. D = 0.11 P. MinII = 13^m.75 (CV). From 1SWASP data, 14^m.0–14^m.8; from ROTSE-I/NSVS data, 14^m.0–14^m.7 in the R band. According to NSVS data, the light elements are: JD(min) 2451450.685 + 2.1166×E. The ROTSE data with photometric correction flags were kept for the analysis. The star has a faint close companion 2MASS 08074864+4204043.
56. IRAS 08050+4652. J–K = 1.201 (2MASS), B–V = 1.824 (Tycho2). From 1SWASP data, 10^m.47–11^m.36 (1SWASP). Type SR is not excluded.
57. D = 0.22 P. MinII = 13^m.61 (CV). From 1SWASP data, 13^m.7–14^m.25, MinII = 13^m.8; from ROTSE-I/NSVS data, 13^m.85–14^m.35, MinII = 13^m.95 in the R band.
58. MinII = 13^m.20 (1SWASP). From ROTSE-I/NSVS data, 13^m.20–13^m.30 in the R band; from CSS data, 12^m.78–12^m.91 (CV). DSS images show GSC 2976-01659 elongated; it is probably a close visual binary unresolved in the CSS or in the USNO A2.0, B1.0, 2MASS, GSC 2.2, GSC 2.3 catalogs. Thus, the measured amplitude can be strongly underestimated.
59. The variability of GSC 2980-01109 was independently discovered by Palaversa et al. (2013) in the LINEAR Survey. MinII = 14^m.57 (CV). From 1SWASP data, 14^m.35–14^m.80, MinII = 14^m.75; from ROTSE-I/NSVS data, 14^m.4–14^m.8 in the R band.
60. MinII = 13^m.46 (CV). From 1SWASP data, 13^m.27–13^m.44, MinII = 13^m.42; from ROTSE-I/NSVS data, 13^m.25–13^m.5 in the R band.
61. 1RXS J081531.5+512959. From ROTSE-I/NSVS data, 12^m.64–12^m.79 in the R band. According to NSVS data, the light elements are: JD(max) 2451500.540 + 0.29761×E. The light curve shape varies.
62. MinII = 13^m.37 (1SWASP). From ROTSE-I/NSVS data, 13^m.25–13^m.35 in the R band; from CSS data, 13^m.1–13^m.3 (CV).
63. J–K = 0.655 (2MASS). From ROTSE-I/NSVS data, 12^m.65–12^m.85 in the R band; from CSS data, 12^m.4:–12^m.8: (CV).
64. MinII = 13^m.15 (CV). Combined brightness of two stars, GSC 3421-01203 (=var) and GSC 3421-01228, was measured in NSVS and 1SWASP, the measured amplitudes are somewhat underestimated.
65. MinII = 13^m.87 (CV). From 1SWASP data, 13^m.9–14^m.2, MinII = 14^m.15; from ROTSE-I/NSVS data, 13^m.8–14^m.1 in the R band. Combined brightness of two stars, GSC 2977-01458 (=var) and faint GSC 2977-00830, was measured in NSVS and 1SWASP, the measured amplitudes are somewhat underestimated.
66. J–K = 1.151 (2MASS). The ROTSE data with photometric correction flags were kept for the analysis.
67. From 1SWASP data, 14^m.2–14^m.4; from ROTSE-I/NSVS data, 13^m.8–14^m.0 in the R band. The light elements in the table are based on 1SWASP data (JD 2454000–2454600); the period 13.46 days is also not excluded. According to NSVS data, the light elements are: JD(max) 2451507.9 + 12.98×E. CSS data did not permit us to derive a period valid for the long time span of the observations; probably both the period and the amplitude vary. J–K = 0.747 (2MASS).
68. The variability of GSC 2978-00622 was independently reported by I. Sergey (Astrobloknote Team) in 2013 to the <http://www.aavso.org/vsx/> database, on the base of ROTSE-I/NSVS and CSS data. The eclipse in MinI is total, d = 0.08 P. MinII = 13^m.83 (CV). From 1SWASP data, 13^m.8–14^m.2, MinII = 14^m.17; from ROTSE-I/NSVS data, 13^m.8–14^m.2 in the R band. According to NSVS data, the light elements are: JD(min) 2451500.614 + 0.29636×E.
69. B–V = 2.097 (Tycho2), J–K = 1.159 (2MASS). IRAS 08274+4132.
70. MinII = 12^m.68 (1SWASP). From ROTSE-I/NSVS data, 12^m.46–12^m.62 in the R band.
71. J–K = 0.503 (2MASS), B–V = 0.379 (Tycho2). From ROTSE-I/NSVS data, 12^m.25–12^m.35 in the R band. According to NSVS data, the light elements are: JD(min) 2451500.5 + 2.413×E. The ROTSE data with photometric correction flags were kept for the analysis.
72. B–V = 0.970 (Tycho2), J–K = 0.728 (2MASS). From 1SWASP data, 11^m.7–11^m.95 (1SWASP). The ROTSE data with photometric correction flags were kept for the analysis.
73. MinII = 13^m.16 (1SWASPMag). From CSS data, 12^m.65–12^m.85, MinII = 12^m.85 (CV); from ROTSE-I/NSVS data, 12^m.94–13^m.08, MinII = 13^m.08 in the R band. According to NSVS data, the light elements are: JD(min) 2451500.660 + 0.34532×E.
74. The variability of GSC 3422-01397 was independently discovered by Palaversa et al. (2013) in the LINEAR Survey. MinII = 14^m.97 (CV). Combined brightness of two stars, GSC 3422-01397 (=var) and GSC 3422-01612, was measured in the NSVS and 1SWASP, the amplitudes are somewhat underestimated.

75. MinII = 12^m.30 (1SWASPMag). From ROTSE-I/NSVS data, 12^m.28–12^m.41, MinII = 12^m.38 in the R band.

76. J–K = 0.686 (2MASS). Type EB is not excluded. From ROTSE-I/NSVS data, 12^m.55–12^m.7, MinII = 12^m.65 or 12^m.68–12^m.8, MinII = 12^m.8 in the R band. The ROTSE data with photometric correction flags were kept for the analysis.

Remarks:

I present a discovery of 76 new variable stars. My search for variables was carried out in the publicly available data of the Northern Sky Variability Survey ([NSVS](#), Woźniak et al. 2004). Besides, to improve classification and light elements, I analyzed all available observations of these stars from the [Catalina Surveys](#) (Drake et al. 2009) and [SuperWASP](#) (Butters et al. 2010). The sky area with RA between 07^h 11^m and 08^h 45^m, Dec between +40° and +52° was searched.

Many of the variables presented in this paper are close visual pairs that cannot be separated with the low resolution of the surveys like NSVS or 1SWASP. Data from the Catalina surveys, which have resolution as good as 12 arcseconds, provide a possibility to solve this problem. In these cases, combined brightness of several stars was measured in the NSVS and 1SWASP, so that the resulting amplitude is underestimated and the variable's mean brightness appears much higher than in reality; for this reason, only CV (Catalina) magnitudes are tabulated for such stars.

These observations were analyzed using the period-search software developed by Dr. V.P. Goranskij for Windows environment. The coordinates were drawn either from the Tycho-2 or from the 2MASS catalogs.

The SuperWASP observations are available as FITS tables, which were converted into ASCII tables using the [OMC2ASCII program](#) as described by Sokolovsky (2007).

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