

## New Semiregular and Irregular Pulsating Variable Stars III

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Received: 27.11.2011; accepted: 23.03.2012

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		USNO-A2.0 1500-00031032	00 01 29.24, +64 23 16.6	LB	11.6	12.0	R			other		<a href="#">Comm. 1</a>	<a href="#">1.PNG</a>	<a href="#">chart1.PNG</a>	<a href="#">NSVS 1606454</a>
2		USNO-A2.0 1575-00028616	00 02 55.58, +70 34 42.3	LB	12.8	13.2	R			other		<a href="#">Comm. 2</a>	<a href="#">2.PNG</a>	<a href="#">chart2.PNG</a>	<a href="#">NSVS 197999</a> <a href="#">NSVS 200691</a>
3		USNO-A2.0 1575-00117469	00 13 46.46, +68 17 30.2	LB	12.4	12.7	R			other	N	<a href="#">Comm. 3</a>	<a href="#">3.PNG</a>	<a href="#">chart3.PNG</a>	<a href="#">NSVS 206131</a> <a href="#">NSVS 1612794</a>
4		GSC 4295-00755	00 28 35.04, +68 15 18.7	LB	11.4	11.7	R			other		<a href="#">Comm. 4</a>	<a href="#">4.PNG</a>	<a href="#">chart4.PNG</a>	<a href="#">NSVS 213848</a> <a href="#">NSVS 1620804</a> <a href="#">NSVS 1666102</a>
5		GSC 4299-00538	00 30 24.40, +69 47 39.5	LB	11.45	11.8	R			other		<a href="#">Comm. 5</a>	<a href="#">5.PNG</a>	<a href="#">chart5.PNG</a>	<a href="#">NSVS 213650</a>
6		USNO-B1.0 1575-0014017	00 38 10.22, +67 32 38.5	LB	13.2	14.0	R			other		<a href="#">Comm. 6</a>	<a href="#">6.PNG</a>	<a href="#">chart6.PNG</a>	<a href="#">NSVS 219465</a> <a href="#">NSVS 1626498</a>
7		GSC 4295-00725	00 39 21.45, +68 16 26.1	SR	11.05	11.35	R	70	2451470	max		<a href="#">Comm. 7</a>	<a href="#">7.PNG</a>	<a href="#">chart7.PNG</a>	<a href="#">NSVS 219444</a> <a href="#">NSVS 1626527</a> <a href="#">NSVS 1671812</a>
8		USNO-A2.0 1500-00828639	00 47 52.32, +67 21 10.1	LB	13.0	13.5	R			other		<a href="#">Comm. 8</a>	<a href="#">8.PNG</a>	<a href="#">chart8.PNG</a>	<a href="#">NSVS 225091</a> <a href="#">NSVS 1632181</a> <a href="#">NSVS 1675284</a>
9		GSC 4304-01852	00 49 53.90, +71 23 05.4	SR	10.9	11.3	R	120	2451346	max		<a href="#">Comm. 9</a>	<a href="#">9.PNG</a>	<a href="#">chart9.PNG</a>	<a href="#">NSVS 221241</a> <a href="#">NSVS 335698</a>
10		GSC 4304-01400	00 50 56.40, +71 39 38.7	SR:	12.45	12.8	R	245:	2451435	max	N	<a href="#">Comm. 10</a>	<a href="#">10.PNG</a>	<a href="#">chart10.PNG</a>	<a href="#">NSVS 221355</a> <a href="#">NSVS 336708</a>
11		GSC 4300-01025	00 55 28.60, +70 00 54.0	SR	11.5	11.9	R	57.4	2451442	max		<a href="#">Comm. 11</a>	<a href="#">11.PNG</a>	<a href="#">chart11.PNG</a>	<a href="#">NSVS 225697</a> <a href="#">NSVS 335213</a>
12		GSC 4296-00534	00 58 26.76, +68 29 06.0	SR	10.0	10.35	R	85.2	2451403	max		<a href="#">Comm. 12</a>	<a href="#">12.PNG</a>	<a href="#">chart12.PNG</a>	<a href="#">NSVS 229287</a> <a href="#">NSVS 333514</a>
13		GSC 4296-01135	01 00 05.47, +67 37 23.1	LB	11.8	12.25	R			other		<a href="#">Comm. 13</a>	<a href="#">13.PNG</a>	<a href="#">chart13.PNG</a>	<a href="#">NSVS 231352</a> <a href="#">NSVS 332686</a> <a href="#">NSVS 1638810</a> <a href="#">NSVS 1682342</a>
14		USNO-A2.0 1500-01056156	01 01 04.96, +67 03 19.9	LB	11.95	12.6	R			other		<a href="#">Comm. 14</a>	<a href="#">14.PNG</a>	<a href="#">chart14.PNG</a>	<a href="#">NSVS 232690</a> <a href="#">NSVS 332163</a> <a href="#">NSVS 1640216</a> <a href="#">NSVS 1682449</a>
15		GSC 3721-00735	03 56 32.35, +55 14 52.7	SR	11.4	11.7	R	90	2451537	max		<a href="#">Comm. 15</a>	<a href="#">15.PNG</a>	<a href="#">chart15.PNG</a>	<a href="#">NSVS 1982949</a> <a href="#">NSVS 2085873</a>
16		TYC 3336 00036 1	04 15 40.11, +49 19 00.8	LB	9.35	10.0	R			other		<a href="#">Comm. 16</a>	<a href="#">16.PNG</a>	<a href="#">chart16.PNG</a>	<a href="#">NSVS 4252579</a> <a href="#">NSVS 4276075</a>
17		USNO-B1.0 1407-0115914	04 17 28.13, +50 43 05.0	M	12.1	<13.3	R		2451423	max		<a href="#">Comm. 17</a>	<a href="#">17.PNG</a>	<a href="#">chart17.PNG</a>	<a href="#">NSVS 4253585</a> <a href="#">NSVS 4278913</a>
18		GSC 3337-00125	04 22 06.95, +50 17 29.1	LB	11.05	11.35	R			other		<a href="#">Comm. 18</a>	<a href="#">18.PNG</a>	<a href="#">chart18.PNG</a>	<a href="#">NSVS 4258133</a> <a href="#">NSVS 4282794</a>
19		GSC 3341-00885	04 22 37.65, +51 05 47.1	SR	11.65	12.0	R	76.3	2451535	max		<a href="#">Comm. 19</a>	<a href="#">19.PNG</a>	<a href="#">chart19.PNG</a>	<a href="#">NSVS 4258109</a> <a href="#">NSVS 4283863</a>
20		GSC 3337-01644	04 24 33.50, +49 29 09.8	LB	10.77	11.0	R			other		<a href="#">Comm. 20</a>	<a href="#">20.PNG</a>	<a href="#">chart20.PNG</a>	<a href="#">NSVS 4260870</a> <a href="#">NSVS 4284457</a>
21		GSC 3337-01745	04 24 54.47, +49 26 14.2	SR	12.05	12.35	R	103	2451479	max		<a href="#">Comm. 21</a>	<a href="#">21.PNG</a>	<a href="#">chart21.PNG</a>	<a href="#">NSVS 4261229</a> <a href="#">NSVS 4284743</a>
22		USNO-A2.0 1350-04574415	04 26 03.08, +50 28 33.5	LB	12.4	12.8	R			other		<a href="#">Comm. 22</a>	<a href="#">22.PNG</a>	<a href="#">chart22.PNG</a>	<a href="#">NSVS 4261590</a> <a href="#">NSVS 4286481</a>
23		USNO-A2.0 1350-04598779	04 27 40.44, +47 30 43.8	LB	12.4	12.8	R			other		<a href="#">Comm. 23</a>	<a href="#">23.PNG</a>	<a href="#">chart23.PNG</a>	<a href="#">NSVS 4264995</a> <a href="#">NSVS 4286041</a>
24		USNO-B1.0 1370-0121154	04 31 06.72, +47 02 51.1	LB	13.75	14.1	R			other		<a href="#">Comm. 24</a>	<a href="#">24.PNG</a>	<a href="#">chart24.PNG</a>	<a href="#">NSVS 4268404</a> <a href="#">NSVS 4289030</a>
25		GSC 4090-00895	04 34 46.27, +66 59 45.7	SR	10.9	11.1	R	42	2451615	max		<a href="#">Comm. 25</a>	<a href="#">25.PNG</a>	<a href="#">chart25.PNG</a>	<a href="#">NSVS 527764</a> <a href="#">NSVS 2073549</a>
26		USNO-A2.0 1350-04744307	04 38 16.55, +46 52 00.7	LB	12.6	12.95	R			other		<a href="#">Comm. 26</a>	<a href="#">26.PNG</a>	<a href="#">chart26.PNG</a>	<a href="#">NSVS 4295724</a>
27		GSC 4090-01942	04 38 30.97, +67 06 42.1	SR	11.75	12.0	R	38	2451476	max		<a href="#">Comm. 27</a>	<a href="#">27.PNG</a>	<a href="#">chart27.PNG</a>	<a href="#">NSVS 529581</a> <a href="#">NSVS 2075300</a>
28		USNO A2.0 1275-03760387	04 48 02.60, +44 45 52.7	SR:	11.7	12.2	R	66:	2451608	max		<a href="#">Comm. 28</a>	<a href="#">28.PNG</a>	<a href="#">chart28.PNG</a>	<a href="#">NSVS 4304484</a> <a href="#">NSVS 4350248</a>
29		GSC 4519-01086	04 49 13.42, +79 00 25.5	SR	12.1	12.55	R	60	2451586	max		<a href="#">Comm. 29</a>	<a href="#">29.PNG</a>	<a href="#">chart29.PNG</a>	<a href="#">NSVS 447843</a> <a href="#">NSVS 573210</a> <a href="#">NSVS 614636</a> <a href="#">NSVS 493712</a>
30		GSC 2906-00081	04 51 37.66, +44 23 36.9	LB	11.1	11.35	R			other		<a href="#">Comm. 30</a>	<a href="#">30.PNG</a>	<a href="#">chart30.PNG</a>	<a href="#">NSVS 4308147</a> <a href="#">NSVS 4353715</a>

31	GSC 4350-00058	05 09 53.21, +72 49 11.5	LB	11.05	11.55	R				other		<a href="#">Comm. 31</a>	<a href="#">31.PNG</a>	<a href="#">chart31.PNG</a>	<a href="#">NSVS 543544</a>
32	GSC 2415-01775	05 30 54.85, +35 56 32.3	LB	11.4	11.7	R				other		<a href="#">Comm. 32</a>	<a href="#">32.PNG</a>	<a href="#">chart32.PNG</a>	<a href="#">NSVS 6972664</a>
33	USNO-A2.0 1200-03421670	05 30 56.51, +36 52 20.0	SR	11.95	12.25	R	38	2451501		max		<a href="#">Comm. 33</a>	<a href="#">33.PNG</a>	<a href="#">chart33.PNG</a>	<a href="#">NSVS 6972666</a>
34	USNO-A2.0 1200-03429723	05 31 17.68, +32 11 03.4	LB	12.35	12.75	R				other		<a href="#">Comm. 34</a>	<a href="#">34.PNG</a>	<a href="#">chart34.PNG</a>	<a href="#">NSVS 6973298</a>
35	GSC 4347-00001	05 34 55.03, +71 01 08.5	SR	10.7	11.05	R	50	2451464		max	M	<a href="#">Comm. 35</a>	<a href="#">35.PNG</a>	<a href="#">chart35.PNG</a>	<a href="#">NSVS 553076</a> <a href="#">NSVS 643775</a>
36	GSC 2911-01035	05 43 50.58, +38 42 06.9	SR	10.35	10.55	R	37:	2451589		max		<a href="#">Comm. 36</a>	<a href="#">36.PNG</a>	<a href="#">chart36.PNG</a>	<a href="#">NSVS 4407482</a> <a href="#">NSVS 4516608</a>
37	GSC 2911-00829	05 45 01.90, +38 39 40.0	LB	11.35	11.6	R				other		<a href="#">Comm. 37</a>	<a href="#">37.PNG</a>	<a href="#">chart37.PNG</a>	<a href="#">NSVS 4517957</a> <a href="#">NSVS 4408699</a>
38	GSC 2911-01685	05 45 10.58, +38 22 23.1	LB	10.7	11.2	R				other		<a href="#">Comm. 38</a>	<a href="#">38.PNG</a>	<a href="#">chart38.PNG</a>	<a href="#">NSVS 4517939</a> <a href="#">NSVS 4408977</a>
39	USNO-B1.0 1281-0152667	05 48 09.51, +38 08 35.3	SR:	13.4	14.2	R		2451545		max	C:	<a href="#">Comm. 39</a>	<a href="#">39.PNG</a>	<a href="#">chart39.PNG</a>	<a href="#">NSVS 4521385</a>
40	TYC 2925 01526 1	06 03 37.89, +38 14 30.2	LB	10.1	10.35	R				other		<a href="#">Comm. 40</a>	<a href="#">40.PNG</a>	<a href="#">chart40.PNG</a>	<a href="#">NSVS 4539378</a>
41	GSC 4349-01396	06 07 55.27, +69 56 01.2	LB	12.55	12.9	R				other		<a href="#">Comm. 41</a>	<a href="#">41.PNG</a>	<a href="#">chart41.PNG</a>	<a href="#">NSVS 564713</a> <a href="#">NSVS 653588</a>
42	GSC 4345-00258	06 10 33.70, +68 56 17.1	SR	10.6	10.85	R	41.3	2451533		max		<a href="#">Comm. 42</a>	<a href="#">42.PNG</a>	<a href="#">chart42.PNG</a>	<a href="#">NSVS 566688</a> <a href="#">NSVS 653412</a>
43	GSC 4366-00379	06 28 23.69, +72 57 16.0	LB	10.8	11.1	R				other		<a href="#">Comm. 43</a>	<a href="#">43.PNG</a>	<a href="#">chart43.PNG</a>	<a href="#">NSVS 566158</a> <a href="#">NSVS 602093</a> <a href="#">NSVS 663096</a>
44	TYC 3467 01086 1	13 50 12.99, +47 40 41.8	SR	9.5	9.85	R	57	2451606		max		<a href="#">Comm. 44</a>	<a href="#">44.PNG</a>	<a href="#">chart44.PNG</a>	<a href="#">NSVS 5076116</a>
45	TYC 2015 00238 1	14 31 08.04, +24 39 22.6	SR	10.17	10.62	V	40.8:	2453111		max		<a href="#">Comm. 45</a>	<a href="#">45.PNG</a>	<a href="#">chart45.PNG</a>	<a href="#">ASAS 143108+2439.4</a> <a href="#">NSVS 7737539</a>
46	GSC 9261-01383	14 41 09.72, -70 32 06.8	SR	12.5	13.8	V	70.77	2454610		max		<a href="#">Comm. 46</a>	<a href="#">46.PNG</a>	<a href="#">chart46.PNG</a>	<a href="#">ASAS 144110-7032.2</a>
47	TYC 3059 02028 1	15 41 48.98, +44 46 41.4	SR	9.5	9.8	R	48	2451340		max	M4/M7	<a href="#">Comm. 47</a>	<a href="#">47.PNG</a>	<a href="#">chart47.PNG</a>	<a href="#">NSVS 5171068</a> <a href="#">NSVS 5199496</a> <a href="#">NSVS 5220333</a>
48	GSC 4421-02258	17 34 34.64, +68 29 25.6	LB	12.1	12.3	R				other	M7-M8	<a href="#">Comm. 48</a>	<a href="#">48.PNG</a>	<a href="#">chart48.PNG</a>	<a href="#">NSVS 1096177</a> <a href="#">NSVS 2892329</a> <a href="#">NSVS 2954179</a>
49	TYC 4436 01063 1	17 49 04.27, +72 30 10.2	LB	9.15	9.4	R				other	M3	<a href="#">Comm. 49</a>	<a href="#">49.PNG</a>	<a href="#">chart49.PNG</a>	<a href="#">NSVS 1097188</a> <a href="#">NSVS 1183974</a>
50	TYC 2622 00760 1	18 16 08.15, +30 10 35.3	LB	10.05	10.3	R				other		<a href="#">Comm. 50</a>	<a href="#">50.PNG</a>	<a href="#">chart50.PNG</a>	<a href="#">NSVS 8100370</a> <a href="#">NSVS 8145482</a>
51	TYC 2740 01813 1	22 42 39.51, +32 09 41.5	SRD	11.85	12.1	R	41.4	2451465		max		<a href="#">Comm. 51</a>	<a href="#">51.PNG</a>	<a href="#">chart51.PNG</a>	<a href="#">NSVS 8914829</a>
52	GSC 4483-01518	23 56 06.13, +70 59 59.8	LB	11.6	12.05	R				other		<a href="#">Comm. 52</a>	<a href="#">52.PNG</a>	<a href="#">chart52.PNG</a>	<a href="#">NSVS 195332</a>
53	USNO-B1.0 1590-0221321	23 57 42.24, +69 01 34.1	M:	13.0:	14.0	R				other		<a href="#">Comm. 53</a>	<a href="#">53.PNG</a>	<a href="#">chart53.PNG</a>	<a href="#">NSVS 195924</a> <a href="#">NSVS 198741</a>

### Comments:

1. IRAS 23589+6406. J-H = 1.201 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
2. J-H = 1.120 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
3. IRAS Z00110+6800. J-H = 1.431 (2MASS). CGCS 22 (Alksnis et al. 2001). Type SR with the period 130 d is not excluded. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
4. IRAS Z00256+6758. J-H = 1.135 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
5. IRAS 00274+6930. J-H = 1.251 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
6. IRAS Z00351+6716. J-H = 1.164 (2MASS). Faint close companion USNO-B1.0 1575-0014023. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
7. IRAS 00363+6759. J-H = 1.171 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
8. IRAS Z00447+6704. J-H = 1.252 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
9. IRAS 00466+7106. J-H = 1.045 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
10. IRAS Z00477+7123. J-H = 1.137 (2MASS). CGCS 122 (Alksnis et al. 2001). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
11. IRAS Z00522+6944. J-H = 1.111 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
12. IRAS 00551+6812. J-H = 1.016 (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
13. IRAS 00568+6721. J-H = 1.350 (2MASS). CGCS 152 (Alksnis et al. 2001). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

14. IRAS 00578+6647.  $J-H = 1.154$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
15. IRAS Z03525+5506.  $J-H = 1.097$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
16. IRAS 04119+4911.  $B-V = 2.606$  (Tycho2),  $J-H = 0.828$  (2MASS).
17. IRAS 04136+5035.  $J-H = 1.316$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. Three red images from the Digitized Sky Survey show that the variability amplitude is considerable:  
1954-10-05:  $R = 18.6$ ;  
1988-11-05:  $R = 14.1$ ;  
1993-10-20:  $R = 19.0$ .  
Delta mag = 4.7 mag, indicating that the variable is a Mira star (the comparison star magnitudes were taken from the USNO-B1.0 catalog).
18. Probably can be identified with IRAS 04182+5010.  $J-H = 1.264$  (2MASS). Type SR is not excluded. Faint close companion 2MASS 04220533+5017418.
19. Probably can be identified with IRAS 04187+5058.  $J-H = 1.167$  (2MASS).
20. IRAS 04208+4922.  $J-H = 1.231$  (2MASS).
21.  $J-H = 1.171$  (2MASS).
22. IRAS Z04222+5021.  $J-H = 1.309$  (2MASS). Type SR with the period of 71 d is not excluded.
23. IRAS 04240+4724.  $J-H = 1.547$  (2MASS). CGCS 688 (Alksnis et al. 2001). Type SR with the period of 160 d is not excluded.
24. IRAS Z04274+4656.  $J-H = 1.475$  (2MASS). Close companion USNO-B1.0 1370-0121185, the NSVS amplitude is slightly underestimated. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
25. Probably can be identified with IRAS F04298+6653.  $J-H = 0.955$  (2MASS).
26. IRAS 04346+4646.  $J-H = 1.347$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
27.  $J-H = 0.901$  (2MASS).
28. IRAS Z04444+4440.  $J-H = 1.072$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
29.  $J-H = 0.838$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
30. Probably can be identified with IRAS Z04481+4418.  $J-H = 1.026$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
31. IRAS F05038+7245.  $J-H = 0.909$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
32.  $J-H = 1.078$  (2MASS). Period 70 d and type SR are possible.
33. IRAS 05275+3650.  $J-H = 1.211$  (2MASS).
34. IRAS 05280+3208.  $J-H = 1.252$  (2MASS). Type SR with the period of 100 d is not excluded.
35. IRAS F05291+7059.  $J-H = 0.944$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
36. IRAS Z05404+3840.  $J-H = 1.001$  (2MASS).
37. IRAS 05415+3838.  $J-H = 1.069$  (2MASS).
38. IRAS 05417+3821.  $J-H = 1.000$  (2MASS).
39. IRAS Z05446+3807.  $J-H = 1.192$  (2MASS). CGCS 1055 (Alksnis et al. 2001). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
40. IRAS 06001+3814.  $J-H = 0.980$  (2MASS),  $B-V = 1.455$  (Tycho2). Type SR is not excluded. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
41.  $J-H = 0.950$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
42. Probably can be identified with IRAS Z06052+6856.  $J-H = 0.924$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
43. IRAS F06222+7259.  $J-H = 0.880$  (2MASS). Type SR is not excluded. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

44. IRAS 13482+4755.  $B-V = 1.650$  (Tycho2),  $J-H = 0.839$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
45. BD+25 2788, IRAS 14288+2452.  $B-V = 1.812$  (Tycho2),  $J-H = 0.843$  (2MASS). According to ASAS-3 data, the most probable period is 40.8 d; other possible periods are 36.7 and 29.2 days. According to ROTSE-I/NSVS data, the most probable period is 45.6 d, a 39.3-day period is also possible. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
46. IRAS Z14365-7019.  $J-H = 1.030$  (2MASS).
47. IRAS 15401+4456.  $B-V = 1.360$  (Tycho2),  $J-H = 0.863$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
48. IRAS F17348+6831.  $J-H = 0.887$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
49. IRAS 17500+7230.  $B-V = 1.631$  (Tycho2),  $J-H = 0.849$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
50. IRAS F18141+3009.  $B-V = 2.226$  (Tycho2),  $J-H = 0.874$ (2MASS). Type SR is not excluded. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
51.  $B-V = 0.855$  (Tycho2),  $J-H = 0.590$  (2MASS). Faint close companion GSC 2740-01090,  $J-H = 0.245$  (2MASS), the NSVS amplitude is slightly underestimated. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
52. IRAS 23536+7043.  $J-H = 1.003$  (2MASS). Type SR is not excluded. Faint close companion GSC 4483-01506 the NSVS amplitude is slightly underestimated. The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.
53. IRAS 23551+6844.  $J-H = 1.674$  (2MASS). The ROTSE data with photometric correction flags (usually rejected) were kept for the analysis.

**Remarks:**

I present the discovery of 53 new semiregular (SR, SRB, SRD) and irregular (LB) pulsating variable stars. A search for variables was carried out in the publicly available data of the Northern Sky Variability Survey ([NSVS](#); Wozniak et al. 2004) and The All Sky Automated Survey ([ASAS-3](#); Pojmanski 2002). 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 2MASS catalogs.

In several cases, the ROTSE data with photometric correction flags (usually rejected) were kept for the analysis. The use of these data considerably increases the number of available observations without deteriorating quality and allows us to determine the period more accurately.

The sources of spectral types in the Table are: Abramyan and Gigoyan (1995), Alksnis et al. (2001), Lee et al. (1947), Mickaelian and Gigoyan (2000), Stephenson (1986).

**References:**

- Abramyan, G.V., Gigoyan, K.S., 1995, *Astrophysics*, 38, 115  
 Alksnis, A., Balklavs, A., Dzervitis, U., et al., 2001, *Baltic Astronomy*, 10, 1  
 Lee, O.J., Baldwin, R.J., Hamlin, D.W., 1947, *Ann. Dearborn Obs.*, part No 1, 5  
 Mickaelian, A.M., Gigoyan, K.S, 2000, *Astrophysics*, 43, 55  
 Pojmanski, G., 2002, *Acta Astronomica*, 52, 397  
 Stephenson, C.B., 1986, *Astrophys. J.*, 301, 927  
 Wozniak, P.R., Vestrand, W.T., Akerlof, C.W., et al., 2004, *Astron. J.*, 127, 2436