

40 New Southern Red Variables

J. Bedient
USA, Honolulu

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(E-mail for contact: jbedient@gmail.com)

#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		GSC 7627-02475	06 40 34.61, -37 50 11.1	SR	13.5	14.7	V	162:		other		Comm. 1	1.gif		ASAS 064034-3750.2
2		UCAC2 15896640	07 05 06.33, -37 00 57.6	SRA	13.0	14.0:	V	134	2453406	max		Comm. 2	2.gif		ASAS 070506-3701.0
3		UCAC2 11929891	07 28 11.89, -46 26 03.7	SRA	12.5	13.3:	V	314:	2453905	max		Comm. 3	3.gif		ASAS 072811-4626.1
4		UCAC2 16114435	07 28 26.16, -36 45 51.4	SRB	12.7	14.0:	V	125		other		Comm. 4	4.gif		ASAS 072826-3645.9
5		UCAC2 00493315	07 33 38.29, -77 43 16.8	SR	13.0	14.0:	V	145:		other		Comm. 5	5.gif		ASAS 073338-7743.3
6		UCAC2 15905033	07 43 51.43, -37 05 54.6	L	13.2	14.3:	V			other		Comm. 6	6.gif		ASAS 074351-3705.9
7		UCAC2 12163233	07 57 39.64, -45 51 41.0	M	12.5	<15.0	V	330	2453105	max		Comm. 7	7.gif		ASAS 075740-4551.7
8		UCAC2 15687239	07 57 47.43, -37 51 11.4	SR	12.6	14.0:	V	251:		other	M8	Comm. 8	8.gif		ASAS 075747-3751.2
9		UCAC2 14777230	07 59 01.61, -39 51 26.5	SR	13.0	<14.1	V	105:		other	M9	Comm. 9	9.gif		ASAS 075901-3951.4
10		UCAC2 09884777	07 59 23.03, -50 30 48.9	SR:	12.6	<14.0	V			other		Comm. 10	10.gif		ASAS 075923-5030.8
11		GSC 7133-01988	08 12 42.96, -35 44 35.8	SRB	12.1	<13.5	V	125		other	M6	Comm. 11	11.gif		ASAS 081243-3544.6
12		GSC 8144-01794	08 12 45.37, -49 14 06.1	L	12.3	13.4	V			other		Comm. 12	12.gif		ASAS 081245-4914.1
13		GSC 7134-01100	08 19 08.17, -37 14 33.6	M:	13.2	<14.5	V	399:	2452810	max	M9	Comm. 13	13.gif		ASAS 081908-3714.6
14		GSC 8567-00988	08 21 22.28, -53 28 53.3	SR	12.6	<13.7	V	83:		other		Comm. 14	14.gif		ASAS 082122-5328.9
15		UCAC2 09889855	08 30 41.42, -50 50 42.0	M:	11.9	<14.0	V	227:	2453860	max	S	Comm. 15	15.gif		ASAS 083041-5050.7
16		GSC 8162-00107	08 30 56.65, -50 42 24.6	SRA	12.6	<14.2	V	248	2452791	max	M8	Comm. 16	16.gif		ASAS 083056-5042.4
17		UCAC2 15235767	08 37 52.95, -38 42 17.9	L	12.8	<14.2	V			other	M7	Comm. 17	17.gif		ASAS 083752-3842.3
18		UCAC2 15008532	08 45 33.29, -39 23 08.4	SRA	13.0	<14.2	V	237	2453725	max		Comm. 18	18.gif		ASAS 084533-3923.1
19		UCAC2 06263295	08 46 36.23, -58 07 25.7	L	12.8	<13.4	V			other		Comm. 19	19.gif		ASAS 084636-5807.4
20		UCAC2 11496423	08 47 16.77, -47 13 24.6	SR	13.0	<14.0	V	110:		other	M8	Comm. 20	20.gif		ASAS 084716-4713.4
21		GSC 8156-02853	08 56 27.17, -47 27 38.9	L	12.9	<13.5	V			other	M7	Comm. 21	21.gif		ASAS 085627-4727.6

22	UCAC2 14788967	08 57 09.63, -39 54 05.8	SR	12.2	13.1	V	204		other	M8(III)	Comm. 22	22.gif	ASAS 085709-3954.1
23	UCAC2 14150244	08 58 14.32, -41 28 48.6	SRB	12.8	<14.5	V	103:		other	M7	Comm. 23	23.gif	ASAS 085814-4128.8
24	GSC 7163-00043	09 02 22.29, -37 09 34.6	SR	12.9	<14.2	V	220		other		Comm. 24	24.gif	ASAS 090222-3709.6
25	GSC 7677-03419	09 05 44.97, -37 39 39.4	SR:	12.7	<14.2	V			other	M6	Comm. 25	25.gif	ASAS 090544-3739.7
26	GSC 7689-01787	09 06 54.22, -43 33 54.2	L	12.3	13.2	V			other			26.gif	ASAS 090654-4333.9
27	GSC 7686-03297	09 10 58.19, -42 40 58.8	M:	13.0	<14.5	V	360:	2453725	max			27.gif	ASAS 091058-4241.0
28	UCAC2 16359884	09 11 39.06, -36 24 15.0	L	12.4	<13.3	V			other		Comm. 28	28.gif	ASAS 091139-3624.3
29	UCAC2 12404049	09 14 50.05, -45 02 49.4	SR:	13.1	<14.3	V			other	M8	Comm. 29	29.gif	ASAS 091450-4502.8
30	GSC 9208-02272	09 16 39.46, -74 36 45.1	L	12.0	<12.5	V			other		Comm. 30	30.gif	ASAS 091639-7436.8
31	GSC 8174-01552	09 17 30.44, -49 57 29.5	L	12.8	<14.3	V			other	M8	Comm. 31	31.gif	ASAS 091730-4957.5
32	GSC 9404-00301	09 30 06.12, -80 01 14.2	SR:	13.1	<14.4	V			other		Comm. 32	32.gif	ASAS 093006-8001.2
33	GSC 8172-00390	09 34 41.34, -47 09 34.8	L	13.1	<14.5	V			other	M7	Comm. 33	33.gif	ASAS 093441-4709.6
34	GSC 8176-01324	09 34 50.68, -49 48 44.7	L	12.4	<13.5	V			other	M7	Comm. 34	34.gif	ASAS 093450-4948.7
35	GSC 9396-02044	09 44 16.45, -75 10 12.7	SRA	12.9	<14.3	V	240	2453820	max		Comm. 35	35.gif	ASAS 094416-7510.2
36	UCAC2 11964385	09 52 49.71, -46 03 17.8	SR:	12.6	<14.3	V			other	M7	Comm. 36	36.gif	ASAS 095249-4603.3
37	UCAC2 10146420	10 04 25.35, -50 05 30.5	L	12.5	<13.5	V			other	M8	Comm. 37	37.gif	ASAS 100425-5005.5
38	UCAC2 03868077	10 11 40.90, -63 21 05.7	L	12.7	<13.4:	V			other	M7	Comm. 38	38.gif	ASAS 101140-6321.1
39	UCAC2 08494353	10 12 48.33, -53 38 14.0	L	11.7	12.1	V			other	M8	Comm. 39	39.gif	ASAS 101248-5338.2
40	GSC 8612-01735	10 14 53.16, -59 02 55.6	SR:	12.6	<14.0	V			other	M7	Comm. 40	40.gif	ASAS 101453-5902.9

Comments:

1. IRAS 06388-3747.

2. IRAS 07033-3656.

3. IRAS 07267-4619.

4. IRAS 07266-3639.

5. IRAS 07357-7736.

6. IRAS 07420-3658. Member of open cluster NGC2451A (Platais et al. 2001).

7. IRAS 07560-4543.

8. IRAS 07559-3743. Spectral type from Iyengar & MacConnell (1998).

9. IRAS 07572-3943.

10. IRAS 07579-5022.

11. IRAS 08108-3535.

12. IRAS 08112-4904.

13. IRAS 08172-3705.

14. IRAS 08200-5319.

15. IRAS 08292-5040. Only two maxima observed. Spectral type from Stephenson (1984).

16. IRAS 08294-5032.

17. IRAS 08360-3831.

18. IRAS 08436-3912.

19. IRAS 08453-5756.

20. IRAS 08456-4702.

21. IRAS 08547-4716.

22. IRAS 08552-3942. Spectral type from Buscombe (1999).

23. IRAS 08563-4117.

24. IRAS 09003-3657.

25. IRAS 09037-3727.

28. IRAS 09096-3611.

29. IRAS 09130-4450.

30. IRAS 09167-7424.

31. IRAS 09157-4944.

32. IRAS 09313-7947.

33. IRAS 09328-4656.

34. IRAS 09330-4935.

35. IRAS 09440-7456.

36. IRAS 09508-4549.

37. IRAS 10025-4950.

38. IRAS 10101-6306.

39. IRAS 10109-5323.

40. IRAS 10131-5847.

Remarks:

These new variables were found by searching UCAC2 catalogue data (Zacharias et al. 2004) in portions of the southern sky for red ($UCmag-K_s \geq 6$) stars. The resulting list was checked against lists of known variables. Once known variables were eliminated, the remainder were checked by eye in ASAS-3 (Pojmanski 2002) for variability. Spectral types are from MacConnell (1993) unless otherwise noted. Stated positions are all from UCAC2.

This research made use of the VizieR catalogue access tool (Ochsenbein et al. 2000), NASA's Astrophysics Data System, and AAVSO's Variable Star Index (VSX). The author gratefully acknowledges the valuable contributions of Dr. S.V. Antipin in the completion of this work.

References:

- Buscombe, W., 1999, 14th General Catalogue of MK Spectral Classification, VizieR On-line Data Catalog: III/222
Iyengar, K.V.K., MacConnell, D.J., 1998, Astron. Astrophys. Suppl. Ser., 133, 201
MacConnell, D.J., 1993, IRAS Point Source Identifications, VizieR On-line Data Catalog: III/170
Ochsenbein, F., Bauer, P., Marcout, J., 2000, Astron. Astrophys. Suppl. Ser., 143, 23
Platais, I., Kozhurina-Platais, V., Barnes, S., et al, 2001, Astron. J., 122, 1486
Pojmanski, G., 2002, Acta Astronomica, 52,397.

Stephenson, C.B., 1984, General Catalog of S Stars, 2nd edition, Publ. Warner & Swasey Observatory, 3, No. 1, 1
Zacharias, N., Urban, S. E., Zacharias, M. I., et al., 2004, Astron. J., 127, 3043