

Mira Variables from the OGLE II Galactic Disc Photometric Database for Scorpius

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#	Name	Other	Coord (J2000)	Type	Max	Min	System	Period	Epoch (JD)	type	Sp	Comment	L.Curve	Find.Chart	Data
1		Sco_SC1 43	16 39 56.63, -45 16 27.8	M	13.0	15.4	I	243	2451675	Max			sco_sc1_43.gif		sco_sc1_43.dat
2		Sco_SC1 67181	16 40 12.15, -44 33 20.7	M	12.6	14.2	I	430:		other			sco_sc1_67181.gif		sco_sc1_67181.dat
3		Sco_SC1 45342	16 40 13.04, -45 06 06.2	M	14.6	17.2	I	334	2451748	Max			sco_sc1_45342.gif		sco_sc1_45342.dat
4		Sco_SC1 41140	16 40 22.39, -45 13 43.2	M	15.7	>18.2	I	450:	2451290	Max			sco_sc1_41140.gif		sco_sc1_41140.dat
5		Sco_SC1 60368	16 40 23.03, -44 41 47.7	M	14.1	16.1	I	262	2451346	Max			sco_sc1_60368.gif		sco_sc1_60368.dat
6		Sco_SC1 43461	16 40 23.39, -45 11 13.8	M	15.2	>19.2	I			other			sco_sc1_43461.gif		sco_sc1_43461.dat
7		Sco_SC1 101399	16 40 46.85, -44 31 34.3	M	<13.1	14.7	I	375	2451328	Min			sco_sc1_101399.gif		sco_sc1_101399.dat
8		Sco_SC1 135551	16 41 00.47, -44 28 22.5	M	<11.6	13.7	I	404	2450956	Min			sco_sc1_135551.gif		sco_sc1_135551.dat
9		Sco_SC1 133384	16 41 06.13, -44 32 45.8	M	14.5:	16.5	I	326	2451611	Min			sco_sc1_133384.gif		sco_sc1_133384.dat
10		Sco_SC2 161	16 41 13.51, -45 06 13.4	M	15.9	>17.7	I	411	2451640	Max			sco_sc2_161.gif		sco_sc2_161.dat
11		Sco_SC2 24343	16 41 13.91, -44 28 53.3	M	15.5	>18.1	I	422	2451621	Max			sco_sc2_24343.gif		sco_sc2_24343.dat
12		Sco_SC2 11054	16 41 21.51, -44 51 10.7	M	<15.8	17.3:	I	370:		other			sco_sc2_11054.gif		sco_sc2_11054.dat
13		Sco_SC2 62798	16 41 38.51, -44 26 06.3	M	<14.5	17.1	I	440::		other			sco_sc2_62798.gif		sco_sc2_62798.dat
14		Sco_SC2 78836	16 41 46.80, -44 57 34.8	M	17.1	19.6	I	480::		other			sco_sc2_78836.gif		sco_sc2_78836.dat
15		Sco_SC2 90806	16 41 51.13, -44 36 05.8	M	16.7	>18.1	I	319	2451261	Max			sco_sc2_90806.gif		sco_sc2_90806.dat
16		Sco_SC2 72627	16 41 59.84, -45 06 08.8	M	15.7	18.6	I	500::		other			sco_sc2_72627.gif		sco_sc2_72627.dat
17		Sco_SC2 136860	16 42 14.22, -44 15 51.2	M	<15.5	17.4	I	347	2451274	Min			sco_sc2_136860.gif		sco_sc2_136860.dat
18		Sco_SC3 10449	16 42 26.02, -44 37 28.6	M	14.3	>16.0	I	420	2451244	Max			sco_sc3_10449.gif		sco_sc3_10449.dat
19		Sco_SC3 18543	16 42 37.76, -44 23 13.6	M	15.1	17.6	I	434	2451588	Max			sco_sc3_18543.gif		sco_sc3_18543.dat
20		Sco_SC3 87917	16 42 58.98, -44 10 58.9	M	<16.6	17.5	I	360	2451661	Min			sco_sc3_87917.gif		sco_sc3_87917.dat
21		Sco_SC3 113305	16 43 27.70, -44 16 13.2	M	15.5:	19.3:	I	570:		other			sco_sc3_113305.gif		sco_sc3_113305.dat
22		Sco_SC3 99732	16 43 36.68, -44 43 23.1	M	<17.8	19.0	I	390	2451319	Min			sco_sc3_99732.gif		sco_sc3_99732.dat

23	Sco_SC4 8605	16 43 47.50, -44 38 05.8	M	15.1	>16.7	I	353	2451255	Max		sco_sc4_8605.gif	sco_sc4_8605.dat
24	Sco_SC4 81745	16 44 25.31, -44 30 24.0	M	14.6	>16.9	I	450	2451710	Max		sco_sc4_81745.gif	sco_sc4_81745.dat
25	Sco_SC4 128526	16 44 46.97, -44 11 05.9	M	14.9	>16.6	I	304	2451606	Max		sco_sc4_128526.gif	sco_sc4_128526.dat
26	Sco_SC5 65778	17 00 44.15, -44 22 04.9	M	<12.8	15.1:	I	438	2450950	Min		sco_sc5_65778.gif	sco_sc5_65778.dat
27	Sco_SC5 63064	17 00 45.03, -44 23 18.4	M	12.0	>13.2	I	430:		other		sco_sc5_63064.gif	sco_sc5_63064.dat
28	Sco_SC5 60224	17 00 46.54, -44 29 21.2	M	14.0	15.8	I	285	2451316	Min		sco_sc5_60224.gif	sco_sc5_60224.dat
29	Sco_SC5 70396	17 01 00.96, -44 13 27.2	M	14.2	>16.5	I	426	2451631	Max		sco_sc5_70396.gif	sco_sc5_70396.dat
30	Sco_SC5 83293	17 01 11.02, -44 55 00.2	M	15.7	18.8	I	522	2451306	Min		sco_sc5_83293.gif	sco_sc5_83293.dat
31	Sco_SC5 144018	17 01 34.85, -44 26 43.6	M	15.8	18.6	I	398	2450997	Max		sco_sc5_144018.gif	sco_sc5_144018.dat
32	Sco_SC5 143617	17 01 38.05, -44 28 56.0	M	14.2	17.6:	I	500:		other		sco_sc5_143617.gif	sco_sc5_143617.dat
33	Sco_SC6 36842	17 01 50.86, -44 15 15.7	M	<12.6	14.5	I	320	2451639	Min		sco_sc6_36842.gif	sco_sc6_36842.dat
34	Sco_SC6 11133	17 01 52.39, -44 45 27.4	M	13.3	16.2	I	304	2451666	Min		sco_sc6_11133.gif	sco_sc6_11133.dat
35	Sco_SC6 81174	17 02 14.24, -44 24 09.1	M	<11.7	12.8	I	382	2451300	Min		sco_sc6_81174.gif	sco_sc6_81174.dat
36	Sco_SC6 138259	17 02 26.26, -44 17 17.2	M	14.0	16.7	I	455:	2451624	Max		sco_sc6_138259.gif	sco_sc6_138259.dat
37	Sco_SC6 180737	17 02 42.43, -44 27 28.2	M	13.3:	15.4:	I	340:		other		sco_sc6_180737.gif	sco_sc6_180737.dat
38	Sco_SC7 31500	17 03 09.71, -44 27 02.8	M	13.0	>14.0	I	365	2451284	Max		sco_sc7_31500.gif	sco_sc7_31500.dat
39	Sco_SC7 182247	17 04 02.22, -44 32 19.3	M	11.5	>13.4	I	350	2451605	Max		sco_sc7_182247.gif	sco_sc7_182247.dat
40	Sco_SC8 44682	17 04 14.59, -44 10 53.1	M	<13.0	15.0	I	350		other		sco_sc8_44682.gif	sco_sc8_44682.dat
41	Sco_SC8 57844	17 04 32.02, -44 50 18.6	M	<14.4	15.9	I	370	2451270	Min		sco_sc8_57844.gif	sco_sc8_57844.dat
42	Sco_SC8 71596	17 04 35.64, -44 30 42.4	M	14.7:	>17.4	I	430:		other		sco_sc8_71596.gif	sco_sc8_71596.dat
43	Sco_SC8 74423	17 04 43.49, -44 27 29.6	M	<11.0	13.4:	I	434	2451340	Min		sco_sc8_74423.gif	sco_sc8_74423.dat
44	Sco_SC8 114316	17 04 56.40, -44 33 53.5	M	<12.9	15.0	I	407	2450988	Min		sco_sc8_114316.gif	sco_sc8_114316.dat
45	Sco_SC8 114318	17 04 57.31, -44 37 06.7	M	12.5:	14.7	I	413	2451658	Min		sco_sc8_114318.gif	sco_sc8_114318.dat
46	Sco_SC8 163467	17 05 14.51, -44 23 15.7	M	13.9:	16.2:	I	452	2450925	Min		sco_sc8_163467.gif	sco_sc8_163467.dat

Remarks:

Data from the OGLE II Galactic Disc Photometric Database (Szymanski 2005, Udalski et al. 1997) for Mira in Centaurus and Norma were used to present 32 such variables in Greaves (2008).

In this note a further 46 Mira variables from the OGLE II Galactic Disc data for the remaining fields in Scorpius are presented.

Again, the one thousand day duration of the survey, the magnitude range of the experiment, the seasonality of observation relative to typical period length (especially so in this instance with Scorpius being a Zodiacal constellation), can lead to only approximate periods being given at times, or with sometimes only minima being available for epoch determination (appropriately noted in the above table), if any note of epoch can be made at all. Further, although the periods and general shapes of the lightcurves are typical of Miras, full amplitude is somewhat suppressed at times as the survey used a passband near to Cousins I, rather than the normally expected Johnson V, and I band magnitudes are not prone to continuum absorption by titanium oxide and/or vanadium oxide which can represent a substantial part of the amplitude for Miras in Johnson V and the visual.

None of the stars are noted in the GCVS, NSV (<http://www.sai.msu.su/groups/cluster/gcvs/gcvs/iii/html/>) nor ASAS variable star listings (<http://www.astro.uw.edu.pl/asas/?page=download>)

), the resources most likely to cover these regions, which is to be somewhat expected as Mira variables will on the whole have V-Ic colours of 2, 3 or higher, thus often being much fainter in the more traditionally used Johnson V and visual ranges used in surveys.

References:

Greaves, J., 2008, PZP, 8, No. 32

Szymanski, M., 2005, Acta Astronomica, 55, 43

Udalski, A., Kubiak, M., Szymanski, M., 1997, Acta Astronomica, 47, 319