

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

James Chivers

Montgomery, Powys, Wales
chiversjames@ymail.com

Abstract: The position angle, separation, and spectral class of 1042 common proper motion red dwarf binary stars are reported based on data-mining the Sloan Digital Sky Survey Data Release 10. 727 of these are new discoveries.

Introduction

The aim of this experiment was to combine results from three of the 100+ tables that form the Sloan Digital Sky Survey (SDSS) Data Release 10 (Ahn et al. 2012) with the earlier work on M dwarf stars authored by West, A. A. et al. (2011). The 2011 paper demonstrates how the de-reddened SDSS (r-i) and SDSS (i-z) magnitudes can be used as a predictive tool to allocate stars to the sub-types between M0 and M9 inclusive.

As with the previous paper (Chivers, 2014) the emphasis has been on identifying a relatively small number of very strong candidates rather than a much larger number of possible common proper motion pairs.

Method

STEP 1 – A Structured Query Language (SQL) program was created using the CASJOBS facility that can be accessed at <http://skyserver.sdss3.org/casjobs/login>.

The three tables from Data Release 10 were used:
Neighbors – this identifies all SDSS objects that lie within 30 arc-seconds of each other.

PhotoObjAll – this contains astrometric and photometric information on every SDSS detection.

ProperMotions – this combines SDSS and recalibrated USNO-B astrometry to give proper motion.

The first section of the program was designed to identify pairs of objects separated by between 3 and 30

arc seconds (Distance between 0.05 and 0.5), where the two components were both stars (Type = 6) and primary objects (Mode = 1) and where both stars had clean photometry (Clean = 1).

The second section checked that the quoted proper motion was reliable and that the quoted total proper motion was between 40 to 60 mas/yr.

The final section checked that the difference in proper motion in declination and in right ascension between the two components was less than the quoted errors in these values.

STEP 2 – The de-reddened magnitudes in the SDSS r, I, and z bands were determined by eliminating the galactic extinction from the downloaded PSF magnitudes. The SDSS (r-i) and SDSS (i-z) magnitudes were calculated and only those pairs of stars where both components had colours characteristic of red dwarf stars were processed further.

Step 3 – The designation of primary star was based on the SDSS r-band magnitude. Once the primary star was known, the separation and the position angle between the two components could be calculated.

Step 4 – The allocation to a spectral sub class (M0 to M9) was based on the average value obtained from analysis of the SDSS (r-i) and SDSS (i-z) colours.

Step 5 – All qualifying pairs were allocated to one of two groups. The first group was for those pairs that could be matched to a pair already listed in the Washington Visual Double Star Catalog (Mason et al., 2001-

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

2014). The second group was for new discoveries.

Results and Discussion

A total of 1042 common proper motion pairs were identified where both components had the SDSS (r-i) and SDSS (i-z) colors associated with red dwarf stars and where the total proper motion of both components was between 40 and 60 mas/yr.

As can be seen in Table 1 there is little difference between the key characteristics of the two groups.

All 1042 pairs were checked visually using the “Image List” facility available via the SDSS SkyServer page: <http://skyserver.sdss3.org/public/en/home.aspx>.

This is an important precaution to take because it is not unknown for image artifacts to be included in astronomical catalogs.

For pairs that were already listed in the Washington Double Star Catalog, it is worth noting that the position angle and separation calculated using the SDSS data were in every case very similar to the most recent results available from the VizieR site: <http://vizier.u-strasbg.fr/viz-bin/VizieR>.

The allocation of each common proper motion pair component to a spectral sub-class (M0 to M9) was done using the results obtained by West. All values should be taken as being ± 1 . As would be expected, the primary star is either of an earlier sub-type than the secondary star or is of the same spectral type. Both components are at virtually the same distance from the observer and, because early M dwarfs are more luminous than later M dwarfs, they will appear brighter.

For convenience the results for all 1042 binary star systems have been sub-divided into two tables. Table 2a contains relative positions and proper motions of the binary stars and Table 2b contains the colors and spectral classification of the binary stars.

Conclusions

Combining data from a number of different SDSS Data Release 10 tables greatly accelerates the process of distinguishing between genuine common proper motion binary star systems and random line-of-sight arrangements.

When conducting astronomical data mining, the emphasis needs to be on the quality rather than on the quantity of any discoveries. The temptation to be too lenient when deciding what selection criteria to use should always be resisted because even a small relaxation in the rigour with which these constraints are selected and applied can result in large numbers of “false positive” discovery claims.

It appears from these results that any identification procedure that relies on the ProperMotion table within Data Release 10 can only be applied for component separations greater than 6 arc seconds. No pairs with a

Table 1. The key features of the two sub-groups of CPM pairs

CHARACTERISTIC	PAIR ALREADY IN WDS	NEW DISCOVERY
PRIMARY MAGNITUDE	16.5	16.8
SECONDARY MAGNITUDE	17.8	18.4
SEPARATION (ARC SEC)	16.2	15.8
PM IN RA (MAS/YR)	30.2	30.9
PM IN DEC (MAS/YR)	31.2	29.5

separation less than this have been found.

A different technique has now been developed to identify potential binary star systems with a separation of between 3 and 6 arc seconds, and a third technique has successfully identified large numbers of previously unidentified red dwarf binary star systems with separations even closer than this.

Both will form the subject of further articles in this series.

Acknowledgements

This research has made use of the Washington Double Star Catalog maintained at the U.S. Naval Observatory and the VizieR database of astronomical catalogs, as maintained at the Centre de Données Astronomiques, Strasbourg, France.

Funding for SDSS-III has been provided by the Alfred P. Sloan Foundation, the Participating Institutions, the National Science Foundation, and the U.S. Department of Energy Office of Science.

The SDSS-III web site is <http://www.sdss3.org/>. SDSS-III is managed by the Astrophysical Research Consortium.

References

- Chivers, J., 2014, *JDSO*, **10**, 1.
 Christopher P. Ahn, et al., 2012, *ApJS*, **203**, 21.
 West, A. A., et al., 2011, *AJ*, **141**, 97.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a. Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG	MAG	PA	SEP	DATE	PRIMARY		SECONDARY		WDS
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	NAME
1	00 00 6.190	+12 58 57.49	16.18	16.25	193.69	28.20	2008.839	52.3	-8.3	49.8	-11.2	
2	00 03 2.369	+03 41 25.00	16.74	17.10	205.06	13.25	2008.756	23.7	-40.0	21.6	-42.4	
3	00 03 8.211	+32 41 48.91	15.74	20.09	216.03	8.69	2003.743	0.6	-47.3	1.5	-44.3	
4	00 06 3.842	-03 55 35.74	16.93	17.76	3.39	8.65	2006.711	-41.5	-37.2	-41.5	-33.3	00066-0356
5	00 07 5.058	+22 19 09.39	15.51	18.85	13.28	9.29	2009.049	9.3	40.1	13.1	42.3	
6	00 07 1.881	-10 20 19.92	17.33	18.23	74.51	27.59	2000.737	37.4	34.9	41.9	31.1	00077-1020
7	00 08 2.079	-07 59 42.86	17.23	18.05	216.83	11.48	2006.711	-10.3	-42.5	-8.3	-41.3	00085-0800
8	00 10 4.234	-03 37 53.31	17.96	18.62	174.36	13.08	2008.683	37.5	-21.9	35.9	-19.1	
9	00 11 7.848	-20 12 35.37	17.79	18.95	137.36	20.61	2004.953	51.0	-9.3	53.5	-13.3	
10	00 12 4.265	+02 03 06.73	14.97	18.55	78.04	22.79	2008.754	-9.1	-43.5	-5.8	-42.6	
11	00 13 1.303	+20 01 30.50	15.01	15.19	105.78	19.81	2009.057	44.7	-30.8	46.7	-30.7	00132+2002
12	00 13 4.901	+06 03 58.63	15.66	18.69	212.83	8.91	2008.757	18.1	39.5	20.3	36.4	
13	00 13 9.600	+05 08 11.22	15.25	17.34	181.78	21.09	2008.770	-40.0	-2.4	-44.2	-4.9	
14	00 14 1.179	+04 24 01.59	15.44	16.85	269.26	25.67	2008.757	54.1	10.6	52.6	8.7	
15	00 14 0.564	+07 07 34.67	18.36	18.44	158.93	17.77	2005.698	41.6	0.4	40.0	3.3	
16	00 17 0.615	-09 14 51.86	18.52	19.17	193.61	17.48	2006.711	54.7	-11.4	58.6	-9.5	
17	00 18 9.096	+09 10 44.77	17.17	18.32	64.55	9.37	2008.836	3.3	-50.8	8.8	-48.7	
18	00 18 4.149	-04 43 13.38	17.10	17.22	183.17	8.86	2008.888	8.6	-39.7	11.6	-41.5	
19	00 22 0.051	+21 42 58.78	16.78	18.32	210.97	14.74	2009.071	50.8	-21.4	50.1	-20.9	
20	00 23 4.568	-21 06 08.41	16.98	17.81	337.61	8.38	2004.953	39.7	-8.3	42.9	-10.4	
21	00 23 4.714	+04 03 20.98	14.18	19.83	213.56	26.84	2008.757	31.3	-36.4	30.7	-33.8	
22	00 24 9.765	-09 49 32.50	16.15	19.19	352.74	18.02	2000.737	40.5	-28.9	38.4	-25.0	00245-0950
23	00 24 3.087	+12 05 05.20	17.90	19.58	100.69	7.47	2008.839	35.6	-23.4	39.1	-17.7	
24	00 25 0.769	+24 01 56.06	15.88	16.30	108.60	10.87	2004.729	-44.9	-22.0	-43.1	-21.8	00255+2402
25	00 25 2.295	-03 48 57.70	14.95	16.90	257.34	25.98	2008.888	40.9	-26.2	44.4	-28.5	
26	00 26 8.809	-19 47 41.49	17.39	20.54	279.06	13.86	2004.953	14.3	-38.7	12.5	-41.5	
27	00 26 5.249	+25 55 27.44	17.64	19.29	239.20	28.46	2008.751	41.3	-11.2	42.0	-8.4	
28	00 27 6.137	+04 55 08.52	18.51	18.52	198.82	24.55	2008.757	51.0	5.9	55.3	1.0	
29	00 28 1.630	+34 22 16.26	18.60	18.91	210.55	21.95	2006.753	10.0	-39.3	14.2	-42.4	
30	00 29 1.952	+11 51 30.53	17.39	18.37	152.61	22.94	2008.828	42.5	10.5	38.7	14.3	
31	00 30 8.326	+03 14 54.98	19.16	19.20	273.86	18.47	2008.683	45.0	-1.5	47.3	4.9	
32	00 31 1.842	+25 50 33.46	16.25	18.61	127.34	21.27	2008.751	44.5	-31.4	46.5	-27.7	00310+2551
33	00 31 2.980	+09 57 24.98	14.94	18.93	218.11	21.01	2008.997	6.9	-45.0	9.0	-39.6	
34	00 31 1.312	-10 15 53.65	16.73	17.21	136.65	22.28	2000.680	-21.4	-36.4	-24.8	-37.1	00312-1016
35	00 31 4.911	+39 58 58.09	17.21	18.55	219.78	7.04	2002.764	25.4	-45.9	23.1	-50.9	00313+3959
36	00 31 9.183	+08 23 06.70	16.59	19.58	359.78	17.09	2005.742	11.4	-43.6	4.3	-42.5	00313+0823
37	00 32 1.841	+39 38 04.31	17.44	19.00	220.97	8.70	2002.764	-1.1	-44.6	4.4	-50.5	
38	00 32 3.078	-08 50 21.04	19.01	19.65	227.69	26.89	2000.740	44.3	-14.7	43.9	-19.9	
39	00 32 3.023	+11 12 45.46	16.28	16.64	186.79	17.14	2008.997	-18.3	-40.2	-20.6	-36.2	
40	00 32 9.903	+14 08 20.45	15.84	18.82	275.75	29.33	2001.715	8.0	-55.6	10.7	-51.0	
41	00 33 1.203	+20 03 36.44	16.29	18.55	188.90	8.23	2009.057	-19.4	-43.1	-14.9	-48.4	
42	00 33 3.627	+27 09 47.15	16.78	17.49	284.26	28.05	2009.792	55.1	-12.8	51.6	-9.7	
43	00 33 7.425	-22 04 48.50	15.92	19.63	134.02	9.81	2006.711	42.5	11.0	40.6	14.5	
44	00 33 5.545	+38 54 46.12	18.37	19.13	117.43	10.12	2002.763	51.9	-3.1	52.2	-9.0	
45	00 34 5.274	+01 26 18.89	18.10	18.42	110.22	29.96	2008.756	-18.1	-42.2	-13.9	-49.4	
46	00 34 4.364	+02 58 54.51	18.76	19.46	150.15	24.30	2008.756	13.3	-44.7	16.2	-42.6	
47	00 35 0.510	+19 24 11.40	18.33	18.65	232.21	23.27	2009.046	-11.8	-41.8	-9.4	-43.3	
48	00 36 5.572	-19 20 09.42	17.28	18.47	110.96	12.42	2006.744	2.5	-50.7	-0.4	-45.2	
49	00 37 7.238	+41 50 10.99	14.89	16.68	342.12	10.97	2002.763	43.2	12.7	46.0	13.4	
50	00 37 .551	+12 31 09.08	17.35	17.82	332.56	8.34	2008.839	36.6	-28.4	31.8	-31.4	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
51	00 37 19.356	+27 42 19.72	16.87	19.75	65.01	8.19	2008.817	-5.9	-44.9	-3.9	-44.0	
52	00 37 39.062	+03 55 27.13	15.96	19.65	293.89	14.42	2008.770	-25.4	-52.6	-20.9	-52.5	
53	00 41 30.097	+21 33 41.28	16.26	18.33	103.67	28.35	2009.049	53.4	-8.9	48.4	-9.7	
54	00 41 34.873	-09 33 52.12	16.39	18.05	347.91	18.23	2000.740	50.5	32.2	47.9	27.5	00416-0934
55	00 42 06.632	-10 13 48.93	16.19	16.89	36.92	9.06	2000.680	41.5	10.6	39.2	9.5	00421-1014
56	00 42 31.252	+22 23 53.47	18.74	19.50	264.34	8.69	2009.049	37.7	-22.8	41.8	-21.5	
57	00 43 33.798	+04 32 39.61	16.75	17.61	54.14	12.45	2008.683	54.1	16.4	52.5	13.9	
58	00 46 15.714	-05 37 25.77	18.48	18.65	37.71	21.23	2008.997	-2.4	-50.4	-3.9	-48.5	
59	00 47 55.986	-03 09 44.27	15.62	16.63	314.84	11.84	2009.043	-24.8	-37.3	-20.9	-39.4	
60	00 49 33.364	+40 46 40.94	18.88	19.73	40.27	12.52	2007.924	-43.4	9.9	-46.6	5.5	
61	00 50 53.086	+01 32 29.30	17.15	17.91	253.14	10.14	2008.754	52.4	-16.2	52.6	-17.5	
62	00 52 31.065	+22 59 55.09	16.51	16.76	173.44	9.21	2009.049	-14.8	-39.3	-13.1	-40.2	
63	00 53 47.552	+07 22 55.25	16.23	19.20	319.11	12.90	2005.737	48.8	-20.9	46.4	-27.7	
64	00 53 51.625	+39 44 56.81	17.46	18.33	117.21	7.70	2007.924	40.7	-11.4	43.6	-14.5	
65	00 54 46.648	-05 44 15.45	16.35	19.18	184.47	10.77	2008.997	43.6	12.6	45.4	15.3	
66	00 55 55.057	+00 40 19.15	18.66	19.05	38.94	8.42	2003.735	40.8	-18.6	42.6	-18.2	00559+0040
67	00 57 45.877	+11 50 06.06	15.45	17.29	67.14	14.11	2008.828	31.7	-43.4	31.4	-44.6	
68	00 58 22.174	+22 58 45.97	16.01	16.10	235.59	14.88	2009.049	7.6	-39.3	9.2	-40.0	
69	00 58 38.817	-09 31 00.56	16.07	20.00	327.74	25.20	2000.740	39.0	-15.9	35.9	-17.6	
70	00 58 57.646	+27 51 28.88	15.50	17.29	287.24	23.13	2008.817	32.9	-49.4	31.2	-50.3	
71	00 59 24.808	+33 52 38.98	17.11	19.37	9.54	14.44	2008.833	52.3	-16.1	49.7	-18.5	
72	00 59 27.117	-08 27 49.59	17.69	19.34	119.71	12.22	2009.788	-31.5	-32.5	-37.2	-30.4	
73	01 00 14.118	+32 34 16.31	17.09	18.51	90.26	28.17	2009.794	28.0	35.9	26.2	35.1	
74	01 01 05.028	+23 47 23.37	16.24	18.44	187.73	9.45	2009.737	52.8	-12.4	51.6	-11.9	
75	01 02 05.696	-01 17 21.92	16.67	17.08	288.94	13.43	2008.830	-12.9	-38.0	-16.3	-41.1	
76	01 02 31.499	+11 55 42.55	15.16	18.96	316.32	10.25	2008.839	-33.8	-43.9	-29.3	-41.9	
77	01 04 11.786	-06 20 14.80	15.89	16.90	327.21	12.46	2009.789	50.2	27.1	50.0	25.5	
78	01 05 54.289	+19 26 02.86	16.89	19.73	91.95	13.04	2009.046	49.4	-16.2	45.3	-18.0	
79	01 07 02.020	+13 38 47.32	15.67	19.36	222.99	17.64	2004.653	43.6	3.7	46.2	6.3	
80	01 07 13.269	+28 28 02.22	16.27	16.97	89.45	17.70	2009.792	39.1	8.6	39.8	4.4	
81	01 07 54.866	-07 04 25.80	15.74	16.83	346.43	20.54	2009.743	46.6	24.8	47.9	20.3	
82	01 09 24.934	+24 51 43.25	17.90	18.95	296.89	8.15	2009.737	53.6	-12.5	53.8	-14.6	
83	01 09 59.454	+23 52 19.49	19.55	20.00	244.94	24.06	2009.737	48.1	0.6	48.3	5.4	
84	01 11 28.154	+34 44 36.39	17.98	18.01	84.16	22.55	2008.833	14.8	-39.9	17.6	-39.1	
85	01 12 26.043	+13 41 15.28	16.63	18.64	340.78	7.17	2004.653	50.3	-3.9	45.8	-1.4	
86	01 13 02.730	-09 13 20.27	15.92	16.55	242.21	17.08	2000.737	37.7	-15.3	40.3	-12.2	01131-0913
87	01 13 18.823	+25 29 01.13	17.47	18.60	35.23	16.65	2004.653	44.5	-16.7	43.3	-12.3	
88	01 14 04.307	+16 57 27.42	15.77	18.95	75.01	10.10	2004.653	54.5	-11.6	54.8	-14.5	01141+1657
89	01 14 16.494	+10 17 41.66	15.17	16.07	17.20	20.57	2008.836	42.6	-28.1	44.9	-29.4	
90	01 16 54.621	+15 34 55.48	14.02	18.92	232.78	9.17	1999.782	-30.2	-28.3	-32.2	-32.8	
91	01 17 21.969	+27 45 50.52	19.44	20.18	26.66	10.29	2004.707	4.1	-40.9	12.7	-41.3	
92	01 17 40.562	+11 24 14.07	17.44	18.32	308.13	14.41	2008.839	47.2	-31.7	47.6	-31.9	
93	01 18 07.709	+30 42 06.50	18.85	19.87	37.63	7.10	2009.795	34.6	-37.3	37.4	-42.6	
94	01 18 07.814	+19 12 40.18	13.73	19.62	5.99	14.34	2004.707	41.3	-23.1	46.6	-20.9	
95	01 18 36.661	+25 00 56.83	16.94	18.99	219.80	9.23	2009.737	29.3	-41.6	28.5	-42.5	01186+2501
96	01 18 52.925	+32 44 00.79	17.24	18.08	60.81	8.89	2009.795	40.0	1.1	41.0	-3.0	
97	01 19 22.451	-02 21 01.23	16.02	17.13	107.90	15.55	2008.833	23.0	-42.6	24.1	-38.0	
98	01 20 23.923	+05 54 05.62	16.82	19.00	28.02	12.16	2008.757	-20.6	-38.3	-22.5	-36.4	
99	01 21 02.595	-06 00 11.83	18.81	18.85	112.76	16.46	2008.997	11.9	-55.8	7.6	-58.5	
100	01 22 48.651	+15 00 24.83	15.80	15.86	331.97	16.28	1999.782	54.7	14.8	58.2	9.7	01228+1500

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
101	01 23 47.453	+38 41 03.51	16.68	17.24	2.00	10.02	2004.708	-30.3	-40.9	-34.8	-40.8	01238+3841
102	01 24 19.349	+31 39 26.61	16.62	18.84	301.95	8.04	2009.795	-10.2	-43.3	-14.0	-44.6	01243+3139
103	01 24 55.891	+25 17 46.55	15.72	17.16	192.57	21.75	2009.737	-11.9	-40.5	-14.2	-41.3	
104	01 26 04.141	-07 23 13.51	16.81	18.82	92.41	7.57	2009.743	40.7	0.1	44.8	-4.9	
105	01 27 02.467	+45 29 38.80	17.61	18.12	310.82	7.86	2004.708	48.3	-9.4	48.3	-7.2	
106	01 27 30.329	-05 26 18.76	17.39	17.52	154.64	27.24	2008.997	7.8	-42.6	12.1	-39.7	
107	01 28 58.190	+32 44 54.30	13.82	14.41	287.86	19.89	2008.820	50.0	-16.8	49.7	-13.3	01290+3245
108	01 29 54.061	-00 45 12.82	17.69	18.66	122.23	15.17	2003.886	57.0	15.6	54.1	12.7	01299-0045
109	01 30 34.465	-07 02 51.42	16.91	17.59	222.01	8.74	2009.789	55.6	-5.2	53.7	-9.8	
110	01 31 20.920	+13 59 42.04	16.51	16.98	72.68	18.95	1999.782	-11.3	-48.1	-17.3	-48.0	
111	01 31 32.010	+04 33 04.31	15.23	15.28	285.59	18.10	2008.757	45.3	31.6	42.0	28.5	
112	01 35 29.409	+04 02 48.38	15.21	18.59	205.32	24.80	2008.771	16.9	-40.7	17.2	-41.0	
113	01 37 15.491	+08 54 51.00	16.36	18.28	268.03	17.58	2008.825	25.7	-32.1	28.3	-30.3	
114	01 38 34.418	+48 12 15.29	16.82	17.25	42.03	26.67	2005.994	19.2	-38.9	20.0	-42.7	01385+4812
115	01 39 03.526	+01 42 23.82	16.24	17.08	290.46	15.61	2008.756	25.9	-36.0	24.4	-35.5	
116	01 39 19.201	+32 10 38.85	16.90	16.90	101.65	9.45	2008.834	45.5	12.8	50.2	12.6	
117	01 39 33.244	-02 33 26.78	15.92	19.77	85.30	23.50	2008.830	12.9	-45.9	11.9	-48.4	
118	01 42 30.356	+01 54 54.24	16.98	18.43	99.08	11.98	2009.740	-7.5	-48.3	-6.9	-49.6	
119	01 44 10.354	+20 00 26.34	15.98	17.42	333.65	10.25	2009.046	52.7	-15.2	53.4	-12.6	
120	01 44 11.225	-17 52 35.06	15.66	16.64	354.88	13.35	2004.956	43.8	-3.2	42.7	-6.1	01442-1753
121	01 44 19.500	+01 08 11.58	16.97	18.34	117.45	14.03	2008.756	38.6	-32.5	40.6	-31.8	
122	01 46 59.216	-08 04 03.40	14.54	19.25	89.59	21.55	2009.044	2.6	-44.6	6.0	-47.7	01470-0804
123	01 48 44.398	+17 03 58.58	17.69	18.36	303.10	12.70	2008.754	-6.5	39.6	-8.2	45.4	
124	01 49 49.005	+22 16 00.37	15.69	16.74	334.05	17.47	2008.751	1.6	-43.0	2.1	-43.4	01498+2216
125	01 51 04.272	+55 58 51.63	16.86	17.12	90.25	15.78	2004.708	43.6	5.2	46.8	1.4	
126	01 51 44.195	+14 35 21.78	17.74	18.66	345.36	14.20	2000.915	41.2	3.1	40.3	-4.2	
127	01 52 46.283	-16 42 00.53	15.03	17.30	217.41	22.00	2008.000	39.6	-20.0	41.9	-24.4	
128	01 55 55.827	+15 58 49.60	17.26	17.45	287.56	8.38	2008.754	-40.6	-26.4	-44.9	-28.2	
129	01 56 09.095	-06 49 33.01	16.47	18.79	95.79	27.34	2009.044	25.7	-32.7	30.4	-36.0	
130	01 56 09.042	-05 26 38.02	16.40	19.34	250.71	9.74	2008.975	25.7	-37.1	21.3	-42.7	
131	01 57 28.645	-09 43 14.16	16.75	19.44	60.94	8.56	2005.931	-31.3	-34.6	-31.8	-34.7	
132	01 59 20.279	+28 31 04.21	17.49	18.11	96.39	13.14	2009.789	50.5	-6.0	52.6	-2.3	
133	01 59 24.866	+24 43 47.39	16.10	18.72	10.17	10.58	2008.817	45.2	-15.2	50.3	-11.7	
134	01 59 31.739	+13 17 04.88	17.74	18.14	190.98	15.12	1999.782	34.9	-22.1	36.6	-20.2	
135	02 02 08.409	+31 45 37.83	16.27	19.59	21.26	10.50	2008.820	-24.4	-38.0	-27.4	-34.6	
136	02 03 26.189	+17 43 48.29	14.47	15.02	250.00	18.92	2009.057	40.6	-21.9	40.3	-25.5	02035+1744
137	02 03 30.631	+18 24 50.63	19.63	19.78	127.87	7.69	2009.047	43.9	-6.2	39.9	-8.7	
138	02 03 39.975	+28 15 43.43	15.38	18.46	88.98	13.85	2009.792	27.9	-46.4	25.2	-48.2	
139	02 04 00.068	+70 29 49.73	15.98	17.66	2.29	22.01	2005.841	43.0	-27.3	48.7	-28.8	
140	02 06 08.004	+11 11 07.74	16.71	17.50	246.34	9.14	2008.828	-18.9	-54.5	-18.0	-57.1	
141	02 08 53.874	+16 10 14.19	15.88	18.36	201.60	14.98	2005.844	55.1	-10.3	56.8	-9.0	
142	02 09 18.469	-02 20 14.62	16.27	17.38	199.42	13.84	2005.742	-39.1	-23.8	-34.7	-22.8	
143	02 11 28.492	-09 59 52.06	14.76	18.65	145.80	10.42	2000.738	-37.9	-37.8	-32.3	-44.5	
144	02 12 45.556	+21 39 25.50	16.96	19.10	160.14	8.72	2004.724	49.8	-20.0	52.7	-24.4	02128+2140
145	02 16 20.250	-07 30 40.73	14.79	15.15	292.02	16.01	2009.003	2.6	-57.0	3.2	-55.5	02164-0731
146	02 17 06.149	-09 57 40.31	15.89	18.28	109.12	28.74	2000.738	2.3	-43.4	6.7	-47.5	
147	02 18 02.023	-01 29 25.01	19.05	19.26	190.99	20.41	2008.831	40.3	-7.9	39.6	-9.2	
148	02 18 04.788	+20 37 39.24	15.32	18.33	273.96	14.11	2005.844	48.9	-12.9	47.6	-16.5	02181+2038
149	02 19 32.565	-18 35 38.88	17.13	17.49	89.84	9.06	2004.956	-26.5	-51.1	-23.4	-50.6	
150	02 19 56.460	+02 12 59.43	14.76	16.56	147.83	25.45	2008.757	-19.8	42.1	-21.0	44.1	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG	MAG	PA	SEP	DATE	PRIMARY		SECONDARY		WDS
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	NAME
151	02 20 29.094	-05 39 13.27	15.90	18.18	230.61	14.76	2009.044	-39.8	-37.5	-38.3	-35.5	
152	02 21 23.160	+07 42 12.22	14.42	18.25	323.44	26.06	2005.781	44.8	7.7	41.1	8.0	
153	02 22 06.039	+03 25 19.25	16.42	16.43	148.99	11.57	2009.710	-7.7	-50.9	-7.7	-54.8	
154	02 24 25.401	+05 03 57.03	17.35	20.10	280.76	15.54	2008.757	45.9	-6.4	46.8	-9.1	
155	02 29 40.228	+44 52 36.13	16.36	18.38	106.84	11.41	2003.086	-29.0	-32.9	-32.9	-29.7	
156	02 30 15.224	-01 00 14.50	14.40	16.71	264.01	23.69	2004.776	-30.1	-31.8	-29.6	-35.4	
157	02 32 21.203	-05 41 00.12	17.10	17.25	50.16	25.99	2009.044	28.9	-29.2	30.6	-27.1	
158	02 32 46.475	+00 21 41.59	17.48	17.94	277.00	10.06	2004.776	54.0	-12.3	54.3	-10.3	02328+0021
159	02 36 25.589	+44 34 32.98	16.51	18.74	211.84	13.15	2003.078	-3.1	-52.4	-3.1	-46.4	
160	02 36 50.400	+06 11 47.64	17.60	19.47	96.04	22.02	2005.781	35.0	-25.8	30.4	-30.7	02368+0612
161	02 37 16.115	-08 30 49.29	16.33	18.34	14.82	13.62	2000.738	19.7	-37.3	24.2	-35.0	02373-0831
162	02 41 23.057	-08 56 25.23	19.03	19.43	281.39	10.81	2000.738	-23.8	-41.2	-22.6	-41.4	
163	02 42 40.312	+05 17 16.26	15.08	15.34	70.38	11.67	2004.953	25.8	-47.3	25.5	-45.6	02427+0517
164	02 48 37.424	+06 43 09.39	18.33	19.05	205.76	9.69	2005.781	-24.9	-36.1	-21.7	-40.2	
165	02 50 58.210	-02 37 53.02	18.39	18.80	273.89	7.45	2008.001	47.3	6.7	42.2	5.9	
166	02 52 52.638	+32 44 54.06	16.15	17.11	283.27	16.68	2005.931	-12.4	-43.8	-11.6	-43.5	02529+3245
167	02 59 29.972	+06 55 12.78	17.65	18.29	170.12	17.69	2005.781	42.2	-16.3	43.5	-17.5	
168	02 59 37.045	+38 08 51.15	15.76	17.67	7.25	15.16	2005.844	43.0	-15.6	44.5	-14.2	
169	03 00 58.798	+37 17 51.08	17.77	18.81	110.85	9.54	2005.931	50.4	-23.2	46.6	-27.2	03010+3718
170	03 03 13.729	+05 57 50.34	16.79	19.43	240.33	11.04	2005.781	41.2	-39.7	37.8	-37.9	
171	03 03 27.209	+44 31 46.44	16.25	17.53	327.95	13.02	2003.075	6.5	-54.0	6.4	-55.6	
172	03 07 58.456	+40 23 24.14	18.49	19.39	0.97	28.66	2003.078	22.7	-33.5	22.8	-37.0	
173	03 10 57.116	+05 43 12.22	14.18	16.61	129.42	9.26	2004.953	34.7	44.3	35.6	41.3	
174	03 11 15.037	-00 44 56.75	18.30	19.97	342.68	10.64	2003.886	36.4	-26.8	35.0	-29.2	
175	03 26 26.950	+40 48 10.69	16.36	18.16	261.05	9.66	2003.075	35.3	-22.6	31.7	-27.1	
176	03 27 08.842	+16 46 19.59	14.71	16.30	148.45	10.09	2006.805	-10.2	-42.0	-6.0	-43.8	
177	03 31 08.802	-07 06 43.68	15.40	17.19	272.88	15.25	2000.738	1.2	-54.5	1.5	-58.6	03312-0707
178	03 31 38.944	+06 55 45.54	15.66	15.80	261.29	13.12	2006.810	46.1	0.9	43.3	-0.4	03317+0656
179	03 33 49.235	+38 03 13.11	15.50	15.77	14.90	8.39	2003.086	-14.4	-48.0	-12.6	-45.3	
180	03 42 57.731	-05 20 24.42	14.32	18.64	273.32	25.54	2000.738	-26.6	-31.6	-23.7	-39.0	
181	03 43 31.426	+17 02 17.54	14.90	18.60	305.87	10.49	2004.724	-36.1	22.7	-41.6	16.6	
182	03 46 26.144	+17 32 41.08	17.56	18.37	17.70	21.53	2003.970	23.2	-34.7	18.8	-38.8	
183	03 52 27.444	+36 04 05.37	15.95	19.02	65.99	10.14	2003.078	43.1	-25.2	47.8	-23.2	
184	04 04 05.876	+15 52 58.84	15.00	15.79	308.83	11.26	2006.805	-7.2	-40.6	-9.8	-39.9	
185	04 06 04.068	+18 51 56.44	16.20	16.95	6.54	13.09	2003.970	46.1	-31.1	46.2	-30.9	04061+1852
186	04 06 05.428	+13 19 45.64	14.88	18.34	237.20	11.64	2006.805	41.4	-12.3	47.2	-17.8	
187	04 07 51.444	+79 49 39.60	18.82	19.52	357.00	8.08	2005.994	37.8	-17.2	40.3	-21.3	
188	04 12 58.102	-05 03 02.51	16.48	19.01	69.88	8.74	1999.785	37.1	29.8	40.4	26.2	
189	04 24 29.044	+35 06 18.95	16.06	17.04	252.38	12.19	2002.930	-0.3	-42.3	-3.2	-45.9	
190	04 37 26.664	-05 02 39.49	17.62	18.12	320.32	14.34	1999.782	1.1	-44.4	5.6	-48.0	
191	04 42 35.948	+22 40 49.38	14.87	18.20	306.57	10.60	2006.084	8.9	-55.1	13.0	-51.2	
192	04 49 44.604	-03 46 54.18	15.23	16.20	276.14	27.93	2007.883	54.1	-22.3	49.1	-20.8	04498-0347
193	04 57 41.731	-03 15 40.88	15.19	17.31	38.88	16.23	2007.883	-19.2	-43.6	-14.9	-46.8	
194	05 17 26.681	+62 16 13.18	18.07	18.60	293.94	29.79	2004.790	11.3	-40.5	16.3	-42.1	
195	05 24 28.211	-01 34 46.11	16.93	18.57	81.27	10.40	2007.883	31.0	-34.9	27.1	-32.3	
196	05 32 38.688	+03 26 46.19	16.00	18.97	329.15	9.09	2004.116	25.5	-35.6	20.6	-38.8	
197	05 38 44.483	-04 54 48.44	16.38	17.84	4.50	29.65	2006.229	-52.0	10.2	-55.4	13.1	
198	06 08 05.772	+64 47 22.62	16.46	19.17	38.43	16.84	2004.790	24.9	-52.1	24.2	-54.8	
199	06 14 56.329	+65 08 39.22	16.13	17.32	54.36	18.09	2004.951	-13.8	-55.3	-15.0	-54.1	06149+6508
200	06 25 38.495	+63 57 41.98	18.35	18.60	333.81	16.25	2004.790	4.5	-55.9	2.8	-53.3	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
201	06 28 15.886	+00 36 52.75	16.03	16.49	261.50	19.22	1998.827	24.2	-36.2	20.4	-41.9	
202	06 34 56.624	+26 57 51.04	14.36	15.24	88.13	17.99	2006.887	-20.6	-35.7	-22.4	-37.7	
203	06 37 53.610	+65 56 45.66	18.50	19.10	237.54	7.16	2004.951	12.9	-55.0	10.1	-58.9	
204	06 43 36.812	+27 22 10.03	14.36	16.26	221.86	14.31	2006.890	-3.9	-44.9	-2.7	-46.2	
205	06 53 28.958	+39 46 46.15	16.52	17.98	11.63	24.76	2006.887	3.2	-48.4	4.5	-49.8	06535+2946
206	07 12 21.142	+29 46 50.18	18.42	18.63	58.97	21.59	2006.881	-7.2	-48.4	-12.3	-48.7	
207	07 27 41.964	+35 09 05.11	14.68	17.89	88.99	8.33	2000.263	7.0	-56.0	10.9	-52.0	
208	07 33 45.890	+19 57 56.76	14.84	15.07	233.21	22.23	2002.038	-7.6	-51.4	-7.9	-45.2	
209	07 34 50.782	+41 03 39.20	17.29	18.16	4.61	7.55	2006.881	25.0	-34.6	28.5	-30.5	
210	07 36 05.892	+24 09 46.80	16.09	19.99	184.51	20.81	2002.024	15.8	-37.5	15.9	-37.3	
211	07 36 10.061	+24 15 16.92	15.81	18.50	359.08	8.50	2002.024	-21.1	-39.3	-21.1	-37.6	
212	07 37 58.633	+38 35 30.48	17.26	19.18	247.70	10.18	2000.315	-21.2	-44.5	-14.5	-47.2	
213	07 38 39.075	+43 04 34.55	16.52	19.73	177.14	8.10	2003.810	-40.5	-11.1	-46.4	-17.5	
214	07 40 25.456	+26 11 25.02	16.35	17.04	28.18	16.30	2001.866	34.5	-42.6	38.6	-44.0	
215	07 41 12.939	+49 23 22.40	17.20	19.32	264.76	20.00	2003.886	2.6	-48.0	-2.7	-44.3	
216	07 41 57.063	+19 55 33.28	16.13	16.51	117.33	27.30	2002.999	-36.3	-27.0	-35.2	-27.5	07419+1956
217	07 45 40.971	+00 32 40.12	14.71	17.62	1.92	24.95	1998.895	20.6	-37.8	20.0	-42.8	
218	07 47 41.037	+13 37 02.16	19.48	19.94	311.32	8.71	2004.946	-22.8	-51.0	-22.4	-46.0	
219	07 49 45.986	+26 39 23.69	17.16	19.30	193.35	10.72	2001.969	-35.8	-27.4	-42.2	-33.6	
220	07 53 28.751	+50 01 36.18	16.08	18.78	134.11	25.67	2003.913	-16.9	-41.2	-12.0	-41.0	
221	07 54 41.919	+27 23 01.86	17.46	17.57	330.95	13.48	2002.024	22.6	-37.9	23.0	-39.6	07547+2723
222	07 55 56.586	+18 29 04.29	14.90	15.54	203.77	18.34	2006.895	-35.3	31.1	-37.2	27.3	
223	07 57 11.288	+21 34 40.11	15.01	15.66	14.59	28.19	2003.086	-43.1	-14.6	-42.6	-15.4	
224	07 57 38.093	+39 59 13.27	17.71	18.80	239.90	15.17	2000.905	9.4	-46.6	14.6	-52.3	
225	07 57 46.309	+11 38 37.44	15.09	15.63	229.17	17.53	2005.047	-47.7	17.4	-51.0	16.7	07578+1139
226	08 00 10.222	+40 55 35.86	15.89	17.61	184.38	23.20	2006.881	-32.0	-32.4	-29.8	-33.8	
227	08 01 04.213	-01 33 38.33	17.27	17.38	65.76	8.36	2001.213	-11.3	-38.5	-5.1	-39.9	
228	08 02 27.381	+39 30 56.11	14.07	15.14	200.18	16.26	2001.072	5.6	-57.2	2.3	-53.7	08025+3931
229	08 03 39.347	+34 18 41.50	15.83	17.97	205.26	12.33	2001.964	15.2	-44.9	11.4	-41.7	
230	08 03 50.659	+25 11 45.73	19.03	19.89	250.60	28.17	2002.851	-24.9	-43.4	-28.4	-46.0	08039+2512
231	08 05 30.098	+36 44 33.63	18.66	19.12	161.71	29.79	2001.964	4.1	-42.7	9.7	-46.0	
232	08 11 09.572	+15 14 58.85	18.03	18.16	342.57	11.09	2004.951	17.3	-49.9	18.6	-46.2	
233	08 11 37.468	+25 39 55.89	17.26	17.56	231.62	26.10	2002.999	10.8	-43.5	12.7	-41.9	08116+2540
234	08 12 10.665	+29 53 32.72	16.55	19.48	209.26	11.42	2001.969	19.0	-38.8	14.2	-41.0	
235	08 13 19.919	+06 11 33.40	17.02	17.34	127.14	10.19	2004.075	-26.9	-37.9	-28.4	-39.0	08133+0612
236	08 15 04.934	+47 18 54.55	17.15	19.20	104.47	13.10	2000.258	-43.0	-32.6	-47.0	-30.9	
237	08 15 21.708	+50 23 02.69	16.90	18.51	258.77	16.46	2000.263	33.2	-32.6	34.7	-32.9	08154+5023
238	08 18 54.844	+42 37 44.35	15.67	19.15	81.05	14.77	2006.881	-18.5	-35.6	-23.4	-36.7	
239	08 19 08.181	+45 51 36.96	19.57	19.89	74.81	24.60	2000.261	-7.2	-50.0	-17.9	-46.8	
240	08 20 10.779	+06 36 50.21	17.18	18.35	44.28	11.79	2003.075	14.1	-45.0	17.6	-43.5	
241	08 20 19.857	-00 50 27.52	15.22	19.42	222.37	14.84	2000.173	-47.8	-12.8	-53.4	-9.1	
242	08 20 27.933	+43 16 22.36	18.48	19.37	198.64	15.96	2001.072	-6.8	-44.3	-6.6	-50.5	
243	08 20 29.169	+39 31 59.89	17.69	18.23	149.03	8.80	2001.967	33.2	-38.8	36.2	-35.9	08205+3932
244	08 23 28.192	+37 37 54.08	15.28	16.76	206.82	10.29	2001.866	-24.2	-36.9	-26.8	-36.1	
245	08 23 57.705	+33 52 16.36	17.10	17.96	12.74	13.96	2001.969	5.8	-50.6	5.5	-54.5	08240+3352
246	08 24 43.203	+27 53 48.00	16.95	18.22	154.38	11.33	2002.999	-39.2	23.1	-34.5	24.9	
247	08 24 49.624	+02 56 04.70	15.75	19.15	25.06	8.01	2001.140	-35.6	-26.1	-34.5	-22.4	08248+0256
248	08 24 53.980	+28 45 55.96	16.69	18.76	96.63	29.18	2003.067	16.0	-40.2	13.3	-42.2	08249+2846
249	08 25 58.941	+41 46 37.01	17.31	18.83	86.47	29.35	2006.808	6.6	-41.1	7.9	-44.0	08259+4147
250	08 27 13.475	+41 35 29.96	14.81	19.38	295.30	24.01	2006.881	9.4	-52.1	5.1	-52.8	08273+4135

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
251	08 32 03.882	+40 41 50.13	16.21	16.82	124.26	13.69	2001.967	-10.8	-58.8	-9.5	-56.3	
252	08 33 53.589	+55 40 56.10	17.58	19.14	92.04	26.12	2003.812	-38.7	-30.6	-42.6	-29.5	08338+5541
253	08 35 30.940	+38 26 30.83	15.88	16.01	1.50	18.39	2001.956	-12.6	-40.5	-12.0	-40.8	08355+3826
254	08 35 49.693	+47 51 22.09	16.37	17.29	143.60	8.66	2001.071	41.5	-18.1	48.3	-22.2	
255	08 36 12.681	+23 04 54.20	16.76	16.93	273.71	10.86	2004.212	-51.3	-12.7	-53.3	-8.4	08362+2305
256	08 36 40.219	+11 02 26.56	15.50	16.79	1.23	11.53	2006.016	-29.5	-38.2	-29.3	-34.9	
257	08 37 38.135	+04 56 55.28	14.82	17.72	202.45	10.51	2002.193	38.0	-45.1	32.9	-40.2	
258	08 37 39.019	+47 20 27.74	17.63	19.34	220.59	7.14	2001.072	-27.8	-39.3	-32.3	-45.1	
259	08 38 13.661	+08 49 07.69	15.76	18.27	308.38	12.88	2003.076	30.7	-31.9	28.5	-36.2	08382+0849
260	08 40 39.381	+63 17 58.97	18.31	19.64	320.79	16.92	2003.886	15.1	-54.4	20.3	-49.9	
261	08 41 28.196	+03 13 58.10	19.24	19.40	141.19	11.21	2002.120	21.8	-34.4	31.0	-37.3	
262	08 43 38.997	+46 21 17.72	16.55	17.95	80.28	19.78	2001.145	46.7	-5.0	52.5	-5.2	
263	08 44 38.666	+58 21 33.20	16.20	16.73	359.72	27.79	2003.810	-46.1	-10.5	-43.8	-8.7	08446+5821
264	08 45 49.994	+00 19 27.45	18.33	19.69	17.42	14.79	1999.220	-12.1	-43.9	-13.5	-52.5	
265	08 47 15.331	+24 40 02.33	15.91	19.60	163.75	25.67	2004.212	-25.7	-36.5	-23.4	-33.2	
266	08 47 42.307	+17 57 17.16	17.45	17.99	300.95	19.83	2004.951	-51.8	-14.0	-53.2	-13.2	
267	08 47 50.335	+25 39 34.21	15.92	16.10	76.57	19.31	2004.130	-11.1	-58.0	-9.3	-58.4	08478+2539
268	08 48 00.282	+81 47 54.51	16.53	18.28	245.19	22.14	2006.229	-22.5	-40.3	-20.4	-38.0	
269	08 48 17.174	+46 14 16.60	16.13	17.27	93.35	21.56	2001.287	-24.9	-42.8	-23.2	-42.9	08480+4614
270	08 49 33.546	+03 10 28.79	16.11	16.44	97.96	16.27	2001.139	-43.1	28.5	-41.5	32.9	08495+0311
271	08 49 40.162	+41 28 00.65	16.73	20.02	99.91	8.02	2001.956	-24.5	-38.7	-29.0	-37.6	
272	08 50 03.515	+13 05 36.77	15.55	18.15	199.60	16.32	2005.931	-43.7	-17.8	-41.0	-16.4	
273	08 50 32.515	+36 26 17.61	19.56	19.95	27.42	12.15	2002.106	6.8	-43.1	15.5	-52.2	
274	08 50 51.226	+47 25 47.95	18.59	19.79	77.28	12.49	2001.287	-11.5	-49.0	-12.6	-50.0	08508+4726
275	08 51 14.522	+22 25 26.89	16.03	18.11	328.91	9.38	2004.946	21.5	-44.7	25.6	-42.0	
276	08 51 15.248	+10 12 54.90	14.33	15.30	256.57	14.64	2006.016	-49.0	-13.9	-49.4	-14.1	
277	08 51 38.974	+05 25 26.61	19.11	19.28	229.10	20.66	2002.193	7.1	-52.8	10.9	-53.9	
278	08 55 01.701	+24 49 36.97	16.14	18.57	56.56	13.78	2004.209	-40.0	-38.2	-40.1	-38.0	
279	08 55 18.840	+10 41 21.98	17.82	19.34	4.68	24.31	2006.084	40.8	-17.7	46.3	-20.9	
280	08 56 09.961	+05 30 33.73	15.87	19.21	114.37	19.48	2002.174	36.6	-28.1	37.3	-28.1	
281	09 00 42.342	+31 48 33.61	18.45	19.68	17.45	9.97	2003.179	26.8	-44.7	28.7	-49.9	09007+3148
282	09 02 19.241	+18 18 14.68	15.74	18.96	119.64	24.76	2004.971	-37.4	-17.5	-37.6	-16.4	
283	09 03 15.540	-02 11 57.58	15.43	18.08	148.56	9.29	2001.213	23.3	-39.4	25.0	-43.3	09033-0212
284	09 06 22.012	+42 43 15.47	18.85	19.54	120.28	17.80	2001.956	0.8	-41.7	0.8	-47.1	
285	09 06 29.324	+12 33 07.74	16.56	17.79	72.08	16.30	2006.084	-23.1	-34.8	-22.8	-37.6	
286	09 07 23.631	+26 43 19.18	17.78	19.90	62.82	22.36	2004.209	26.3	-44.6	19.2	-39.3	
287	09 07 39.141	+16 50 43.41	18.17	18.93	0.02	19.15	2005.053	0.2	-42.4	2.2	-40.7	
288	09 10 56.628	+56 32 47.19	16.19	17.04	240.77	20.40	2000.261	-29.8	-46.1	-35.1	-39.5	
289	09 11 22.740	+45 20 21.08	17.81	19.29	17.26	12.75	2001.967	-17.7	-39.5	-15.2	-45.7	
290	09 11 39.524	+49 33 26.77	13.96	16.14	274.08	13.66	2001.145	-31.7	-26.7	-30.9	-25.7	
291	09 15 39.898	+14 25 44.95	16.93	17.90	328.64	9.89	2005.356	-40.3	8.7	-39.5	6.2	09157+1426
292	09 15 52.006	+13 45 35.90	18.09	18.24	72.49	8.45	2005.931	-38.6	-19.7	-37.2	-22.2	
293	09 16 10.456	+66 32 47.71	16.96	19.82	105.12	9.17	2003.886	-39.1	-37.9	-39.2	-39.1	
294	09 16 23.681	+33 36 26.70	16.36	16.65	32.02	11.89	2003.179	-45.7	-3.1	-45.3	-2.9	09164+3336
295	09 16 33.194	+54 47 13.20	15.81	16.63	341.04	9.40	2000.907	-38.3	-40.4	-41.1	-38.2	09160+5447
296	09 17 07.113	+23 59 36.30	16.14	17.27	14.68	12.20	2004.946	-15.2	-45.7	-12.1	-45.8	
297	09 17 35.088	+36 50 57.38	14.24	16.51	284.58	19.64	2002.950	-26.3	-45.3	-26.5	-43.4	
298	09 19 42.501	+24 17 24.19	17.96	18.10	27.32	15.43	2004.946	-20.2	-46.5	-18.0	-52.2	
299	09 19 41.593	+83 01 43.98	15.76	16.23	264.37	9.94	2006.303	36.5	-25.2	37.3	-25.8	09197+2417
300	09 19 46.154	+40 34 08.40	16.27	19.13	303.80	12.86	2002.106	58.6	-11.2	52.2	-4.1	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
301	09 25 13.725	+03 32 35.01	16.57	18.25	124.14	28.61	2007.198	-20.7	-36.4	-21.2	-36.6	
302	09 26 40.484	+22 30 02.50	14.60	15.14	165.20	11.93	2004.951	-54.7	3.9	-52.1	1.6	
303	09 26 57.898	+04 56 14.86	16.55	18.76	93.68	8.50	2007.199	-58.5	3.1	-59.9	2.9	09270+0456
304	09 27 35.354	+09 00 52.87	17.14	18.49	51.40	20.40	2003.075	-44.2	-22.8	-40.2	-18.4	09276+0901
305	09 28 55.598	+47 50 41.09	20.29	20.54	332.03	7.99	2002.024	44.2	-22.9	43.9	-22.3	
306	09 32 45.762	+39 21 52.79	17.29	18.50	307.70	13.95	2002.851	23.6	-38.6	22.9	-39.9	
307	09 33 17.372	+28 09 23.43	17.00	18.91	40.59	12.77	2004.291	-10.5	-46.1	-6.3	-47.0	09333+2809
308	09 34 24.634	+10 25 32.63	16.53	17.48	339.09	11.25	2003.982	14.9	-47.3	12.2	-47.3	09344+1025
309	09 34 53.275	+34 25 14.40	17.40	17.82	50.30	8.96	2003.087	35.9	-37.5	36.4	-34.2	09349+3425
310	09 35 50.058	+51 53 26.18	14.36	19.70	258.38	24.05	2001.145	-18.1	-40.2	-16.0	-38.2	09359+5154
311	09 36 17.915	+38 47 34.13	15.54	19.37	21.67	18.86	2002.851	-48.6	18.2	-45.9	17.8	
312	09 37 11.388	+50 01 28.77	16.71	17.88	285.89	9.29	2001.970	-41.7	-34.2	-40.5	-36.3	
313	09 39 59.014	+42 31 37.46	18.81	20.12	79.22	24.03	2002.038	-12.8	-42.2	-22.2	-36.2	
314	09 42 03.249	+33 31 09.62	17.34	17.88	228.37	24.08	2003.971	-16.7	-44.6	-14.8	-41.7	09421+3331
315	09 43 20.749	+35 27 42.51	16.91	17.15	56.25	8.63	2003.179	-49.1	-14.4	-49.1	-13.4	
316	09 43 21.521	-00 01 01.04	17.93	19.00	67.18	11.03	1999.220	-21.4	45.4	-26.6	48.2	
317	09 44 50.838	+46 38 48.46	16.73	19.70	345.67	21.64	2001.970	46.7	-16.4	48.9	-21.5	09449+4638
318	09 46 18.778	+32 41 16.33	16.11	17.39	36.23	26.60	2004.130	-42.6	35.0	-39.0	35.9	
319	09 46 52.682	+07 16 56.14	15.98	17.00	31.36	15.29	2002.934	39.4	-36.1	40.9	-35.6	
320	09 47 44.714	+51 40 22.00	17.10	18.09	170.98	10.42	2001.970	-42.7	-16.8	-38.8	-16.2	09477+5141
321	09 48 16.388	-03 08 01.63	17.14	19.26	122.37	8.15	2000.173	-30.4	26.7	-37.3	25.0	
322	09 48 44.725	+00 08 49.98	17.03	17.60	319.31	15.75	2000.173	-25.5	-31.8	-27.6	-29.3	09480+0008
323	09 52 23.152	+16 07 58.68	16.07	16.81	47.97	8.56	2005.356	25.1	-43.1	26.9	-44.9	
324	09 52 31.061	+32 11 49.12	19.77	20.13	220.86	8.77	2004.083	-5.8	-44.7	-15.7	-53.8	
325	09 53 51.005	+04 25 43.23	16.52	17.34	286.42	17.48	2001.140	-47.0	-0.9	-46.7	-3.0	
326	09 55 19.607	+61 29 33.80	15.10	17.65	141.26	12.26	2000.263	8.8	41.3	11.1	39.5	
327	09 56 40.560	+79 45 27.39	15.07	19.05	94.76	25.63	2006.303	-28.3	-45.4	-26.4	-42.0	09566+1904
328	09 56 37.196	+19 04 11.77	15.33	19.25	35.67	8.66	2005.194	-47.0	-10.2	-46.6	-7.0	
329	09 56 45.388	+32 19 26.58	16.47	18.45	244.73	21.39	2004.212	-45.3	15.7	-43.2	11.3	09568+3220
330	09 57 44.836	+25 26 10.76	17.47	17.54	331.86	21.38	2004.957	24.0	-46.8	25.0	-44.2	09578+2526
331	09 58 05.126	-03 02 38.73	16.54	18.08	299.61	14.93	2001.213	47.0	-26.9	49.2	-28.7	09581-0303
332	09 59 05.886	+45 27 28.79	18.34	18.90	285.08	13.98	2002.106	-46.0	15.9	-39.8	17.0	
333	09 59 10.526	+18 39 37.65	16.45	18.51	93.38	11.80	2005.189	-47.4	8.7	-47.9	6.0	09592+1840
334	10 00 31.059	+02 41 55.51	17.18	18.69	321.57	11.49	2000.916	1.2	-45.0	0.6	-42.7	10005+0242
335	10 00 54.758	+68 59 39.17	17.24	19.46	1.66	7.09	2003.886	-29.1	-30.5	-35.4	-35.7	
336	10 02 27.108	+42 21 05.84	18.58	18.68	311.25	16.04	2002.950	-32.6	-29.3	-31.1	-26.9	10025+4221
337	10 02 45.396	+13 38 42.51	15.81	16.47	171.83	22.78	2003.971	-19.7	-40.9	-18.8	-43.1	10028+1339
338	10 05 35.690	+02 16 49.18	16.69	18.06	255.09	17.26	2000.343	-28.6	-31.6	-32.1	-28.0	10056+0217
339	10 05 45.572	+04 12 09.15	17.40	17.42	158.87	12.60	2001.140	-43.3	-1.2	-42.6	2.3	10058+0412
340	10 06 40.860	+41 35 03.87	19.19	20.33	290.20	18.39	2002.851	-46.2	-31.3	-42.1	-28.7	
341	10 07 51.715	+42 52 56.52	19.52	19.85	304.62	8.60	2002.950	-38.5	-20.7	-41.5	-21.5	10079+4253
342	10 09 03.289	+42 16 15.32	18.42	20.37	183.41	7.15	2003.177	-18.0	-49.8	-16.3	-49.3	
343	10 09 46.927	+22 45 43.62	17.51	18.79	304.25	17.96	2005.047	-27.0	-41.1	-25.5	-42.0	
344	10 12 10.070	+22 51 35.70	15.69	17.37	70.26	23.90	2005.047	-51.7	-13.3	-52.2	-13.0	10121+2251
345	10 13 04.859	+46 30 10.64	15.36	18.16	168.21	18.94	2002.219	44.2	-19.4	45.2	-19.8	10131+4630
346	10 13 47.444	+24 56 46.34	17.68	17.98	92.31	10.94	2004.951	5.6	-44.7	5.4	-47.5	10138+2457
347	10 14 26.143	+24 48 57.42	16.08	17.36	194.99	19.88	2005.047	-44.0	-9.7	-47.8	-6.2	
348	10 16 01.829	+16 45 00.46	16.96	18.14	116.98	8.01	2005.356	37.4	-23.6	39.0	-20.8	10160+1645
349	10 17 21.650	+21 55 49.78	14.71	17.94	232.83	19.85	2005.096	-2.1	-45.5	1.3	-44.9	
350	10 17 24.665	+12 38 50.43	17.21	17.66	108.19	12.10	2003.076	25.1	-51.0	25.7	-53.0	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
351	10 17 39.949	+26 20 58.55	17.27	18.60	51.59	7.51	2004.957	-27.5	-36.3	-28.7	-33.1	
352	10 17 56.793	+02 12 33.14	16.86	19.23	8.34	17.01	2000.343	-46.7	2.7	-44.6	2.5	
353	10 18 40.689	+50 43 31.73	16.88	18.01	132.14	23.94	2001.964	36.4	-33.9	35.6	-36.4	10186+5044
354	10 19 48.314	+33 28 23.73	16.25	19.15	201.04	8.87	2004.212	-6.7	-51.7	-10.4	-54.6	
355	10 19 54.361	+34 01 18.89	17.50	18.53	200.46	13.76	2004.212	-38.4	-23.3	-38.3	-18.1	
356	10 19 57.039	+28 33 27.05	17.90	19.10	238.25	24.33	2004.946	-15.8	-42.1	-12.4	-46.6	10200+2834
357	10 20 40.578	+09 41 53.34	16.78	19.09	254.00	8.64	2002.194	-19.9	-52.9	-17.2	-57.2	
358	10 21 57.409	+11 50 11.63	16.37	18.34	355.84	7.86	2002.953	13.8	-54.1	11.5	-49.9	
359	10 23 07.558	+04 18 28.22	14.65	18.18	77.38	9.21	2001.140	-34.0	-33.0	-33.2	-34.5	
360	10 24 11.289	+07 37 59.43	17.82	18.18	145.86	22.39	2002.174	-47.2	8.9	-43.5	9.2	
361	10 24 16.904	+17 38 19.62	18.06	19.45	50.89	20.26	2005.356	-38.9	-27.7	-43.5	-25.7	
362	10 24 37.639	-00 10 27.46	17.69	19.32	342.74	14.09	1999.220	-45.2	7.2	-51.4	6.5	10246-0011
363	10 24 48.281	+02 35 48.30	15.95	16.88	258.74	13.18	2000.916	-26.4	-38.8	-24.9	-34.9	10248+0236
364	10 25 54.364	+13 22 48.95	17.49	18.31	17.56	8.69	2003.076	-17.9	-36.1	-19.4	-38.4	10259+1323
365	10 26 00.087	+64 35 34.40	19.29	19.57	196.55	26.32	2000.321	11.0	-51.5	9.0	-48.6	
366	10 26 56.033	+43 09 04.94	16.63	16.74	163.79	9.04	2003.177	-41.5	10.1	-39.0	9.8	10269+4309
367	10 29 07.021	+27 46 15.57	16.39	17.34	14.16	16.53	2004.957	21.3	-49.2	21.5	-51.8	10291+2746
368	10 30 50.576	+21 15 20.62	16.66	17.03	175.45	16.49	2005.096	-17.1	-38.2	-14.2	-41.3	10308+2116
369	10 31 36.580	+57 32 08.94	16.92	17.69	335.05	9.55	2001.287	-18.2	-41.5	-18.7	-42.7	
370	10 31 53.960	+09 13 44.10	18.35	18.59	63.36	11.53	2002.934	15.0	-38.1	21.4	-38.3	10319+0914
371	10 32 18.410	+03 52 18.12	14.41	17.14	233.31	10.20	2001.140	4.5	-46.7	-1.0	-51.0	
372	10 33 11.270	+10 20 29.29	14.66	15.15	240.73	22.09	2003.245	-40.9	-8.8	-39.7	-10.3	10332+1021
373	10 33 37.712	+44 08 30.07	16.80	17.14	10.09	16.57	2002.950	22.2	-35.4	23.2	-32.7	
374	10 34 47.554	+50 20 19.13	16.18	17.33	181.26	14.27	2001.970	-21.3	-42.0	-19.4	-43.1	
375	10 36 17.192	+04 05 23.79	17.71	18.91	280.23	17.43	2001.140	-0.4	-43.1	-4.9	-40.5	
376	10 39 42.664	+32 55 02.02	16.61	17.72	272.13	9.62	2004.291	-39.8	-18.2	-40.3	-21.0	10397+3255
377	10 39 54.822	+54 24 42.42	17.09	17.22	31.24	21.69	2002.024	9.9	-53.7	6.4	-55.0	10399+5425
378	10 43 07.332	+22 32 48.50	18.22	20.19	68.65	26.22	2005.096	6.5	-48.4	8.0	-44.2	
379	10 43 35.241	+32 06 48.30	17.99	18.47	139.75	16.29	2004.283	21.1	-46.0	23.2	-47.3	10436+3207
380	10 44 15.247	+29 26 45.81	16.97	18.44	101.53	8.10	2004.362	-50.1	11.6	-46.6	14.2	
381	10 44 38.732	+10 10 06.16	18.75	18.86	85.35	14.88	2002.194	-21.4	-34.8	-28.9	-38.5	10446+1010
382	10 44 56.756	+08 34 16.06	16.47	16.81	104.40	16.22	2006.393	-49.5	-12.5	-47.9	-14.5	10449+0834
383	10 45 13.102	+56 05 01.87	17.74	18.44	170.49	19.67	2001.888	40.1	-30.0	36.4	-29.4	10452+5605
384	10 46 11.080	+15 53 48.67	16.24	18.32	119.75	10.00	2005.416	-28.3	28.9	-27.1	30.3	
385	10 46 32.081	-22 49 44.94	17.56	18.50	199.46	10.80	2006.079	-44.1	-15.8	-39.6	-19.8	
386	10 46 42.811	+06 41 10.31	15.46	16.53	243.86	28.98	2002.174	-42.3	-19.3	-44.8	-19.8	
387	10 47 02.206	+26 47 52.04	15.46	17.82	317.68	12.53	2004.951	-52.5	12.2	-51.3	9.4	
388	10 47 26.687	+22 49 18.36	17.15	19.67	194.31	9.72	2005.096	-40.4	17.2	-39.8	12.8	
389	10 48 08.409	+04 48 04.02	18.81	19.78	96.63	17.75	2001.140	37.1	-39.0	32.0	-48.4	
390	10 48 11.799	+53 58 54.62	16.95	17.88	334.88	13.22	2001.964	-46.9	-0.7	-47.4	-2.0	
391	10 48 46.587	+21 57 16.01	16.57	19.06	293.49	14.75	2005.194	-44.5	19.5	-39.5	21.2	10488+2157
392	10 48 55.219	+11 48 47.60	17.05	18.92	264.89	9.05	2003.245	-38.7	-30.6	-42.1	-26.8	10489+1149
393	10 48 55.616	+46 47 34.69	18.01	18.40	277.69	23.36	2002.106	16.7	-39.6	20.1	-41.1	10490+4648
394	10 49 09.013	+65 21 57.36	16.34	16.93	176.60	27.95	2000.264	-44.1	-27.8	-43.2	-29.4	10490+6522
395	10 49 38.679	+27 21 21.02	18.34	18.45	78.75	8.90	2004.951	-39.0	-11.1	-42.5	-17.8	
396	10 49 41.935	+47 49 55.17	19.41	19.64	125.53	7.78	2002.219	39.4	-15.3	42.1	-19.0	
397	10 49 44.751	+19 41 18.40	19.20	19.39	61.55	13.08	2005.194	-43.8	11.2	-45.0	11.1	10497+1941
398	10 49 44.927	+39 15 25.65	17.14	17.78	59.76	7.81	2003.087	30.7	-37.1	31.5	-40.0	
399	10 50 21.993	+67 02 54.03	17.47	18.85	287.13	21.58	2000.321	-53.2	-18.7	-51.5	-14.7	10504+6703
400	10 50 33.430	+22 00 35.99	15.68	18.13	164.80	7.97	2005.194	-42.5	-8.1	-42.9	-12.6	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY			MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B	PMRA				PMDE	PMRA	PMDE		
401	10 51 51.503	+01 04 54.74	15.58	17.87	274.58	10.71	1999.221	-48.8	-30.9	-43.6	-31.6		
402	10 52 55.521	+53 47 53.57	17.72	17.83	234.07	9.39	2001.964	20.9	-36.7	25.1	-36.2	10529+5348	
403	10 54 17.167	+21 47 58.57	18.13	18.39	93.51	11.75	2005.189	7.5	-57.2	9.1	-52.1	10543+2148	
404	10 54 51.574	+24 10 19.98	15.96	18.26	283.86	10.14	2005.096	50.1	-28.1	49.4	-26.7	10549+2410	
405	10 56 03.711	+49 56 33.75	16.73	16.93	73.14	12.60	2002.035	-40.6	-22.0	-40.0	-25.3		
406	10 56 25.653	+39 46 17.35	16.21	19.20	79.62	19.92	2003.247	5.6	-47.9	-0.8	-53.5		
407	10 58 41.683	-02 52 16.71	17.79	18.05	42.92	25.51	2000.116	-43.0	10.2	-40.6	10.9		
408	10 58 51.008	+38 00 59.08	16.58	18.28	161.48	19.36	2004.130	-46.4	-24.3	-44.8	-25.5	10588+3801	
409	10 59 13.639	+50 04 30.16	14.82	15.59	264.35	12.72	2001.970	19.4	38.0	21.1	39.8	10592+5005	
410	11 00 03.135	+37 40 40.68	16.02	19.76	208.63	27.16	2004.130	-41.9	-33.3	-36.3	-35.9		
411	11 00 08.976	+12 45 58.00	17.77	18.53	180.60	11.47	2002.953	-49.9	0.5	-54.5	6.5		
412	11 00 17.925	+24 36 42.60	18.80	19.41	30.34	11.17	2005.096	-42.6	-5.2	-43.4	-7.7	11003+2437	
413	11 00 50.924	+41 48 05.63	19.31	20.37	50.01	24.41	2003.247	-31.6	-42.0	-23.8	-41.5		
414	11 01 27.922	+59 10 16.81	18.85	18.87	54.68	11.29	2002.120	-16.3	-41.5	-14.6	-41.0	11014+5910	
415	11 02 39.811	+38 29 06.56	16.61	18.45	122.79	19.07	2003.316	51.7	-22.0	45.3	-15.5		
416	11 03 12.333	+79 41 22.78	16.67	18.30	224.31	23.36	2006.303	-49.9	-6.5	-51.0	-6.6		
417	11 04 52.537	+52 39 47.31	15.77	18.02	190.30	14.90	2002.248	-32.3	28.0	-36.0	24.3	11049+5240	
418	11 06 02.244	+20 20 03.38	17.25	18.00	28.40	28.72	2005.194	21.6	-43.0	21.6	-43.2	11060+2020	
419	11 07 16.121	+08 07 46.82	18.18	19.81	265.86	10.34	2003.248	-42.0	8.3	-45.8	6.5		
420	11 08 07.941	+08 00 52.71	15.39	19.35	358.70	9.08	2003.248	-39.8	11.2	-44.3	14.2	11081+0801	
421	11 08 56.048	-02 33 06.68	14.80	15.42	151.92	11.01	2000.116	39.3	-8.1	42.2	-13.7		
422	11 09 07.098	+28 35 00.87	14.69	15.95	193.67	23.30	2004.951	-47.6	-11.9	-49.4	-9.2		
423	11 09 45.643	+43 17 23.14	16.65	17.46	220.98	27.75	2003.231	-12.4	-46.4	-17.5	-41.3		
424	11 10 47.143	+28 36 54.92	17.42	18.05	257.57	26.34	2004.951	-30.3	45.9	-25.5	46.9		
425	11 12 12.570	+37 48 26.20	17.37	17.46	112.61	11.20	2004.130	-40.8	19.5	-41.2	22.6	11122+3749	
426	11 12 35.082	+22 23 08.05	17.42	17.63	106.19	16.90	2005.189	-14.9	-45.3	-14.4	-40.6		
427	11 15 11.605	+56 56 26.33	19.49	19.83	178.65	19.66	2003.177	-1.0	-46.5	-0.7	-46.4		
428	11 15 58.776	+22 52 32.29	15.31	16.32	239.88	26.89	2005.252	-53.0	21.5	-52.4	19.7		
429	11 16 24.989	+36 01 18.57	18.38	19.16	208.83	8.76	2004.083	-43.2	-9.6	-43.6	-9.5	11164+3601	
430	11 17 29.276	+42 00 32.78	17.05	19.94	318.22	28.57	2003.247	-51.5	-22.6	-52.0	-26.9		
431	11 18 42.434	-01 49 40.68	17.57	19.74	294.63	25.68	2001.216	21.4	-42.9	26.4	-51.2		
432	11 20 06.359	-03 17 57.91	19.45	20.26	93.67	21.70	2000.116	-47.3	-6.4	-57.9	-13.0		
433	11 20 11.153	+35 06 44.65	15.19	16.73	155.71	26.09	2004.291	-53.1	-10.5	-51.8	-12.3		
434	11 20 44.990	+73 43 23.65	18.45	19.93	249.76	18.06	2006.328	-39.6	-10.2	-45.2	-16.6		
435	11 21 08.773	+18 59 32.92	18.90	19.37	303.47	19.81	2005.356	23.8	-38.4	21.6	-43.4	11212+1859	
436	11 21 21.017	-02 11 30.24	15.15	17.33	64.82	25.16	2000.116	-38.4	22.2	-41.3	22.3		
437	11 22 26.325	+34 37 43.54	17.11	18.93	99.43	18.60	2004.291	17.0	-37.2	13.2	-28.6		
438	11 22 27.858	+32 56 18.11	17.96	20.31	304.99	8.01	2004.291	-39.9	-32.6	-40.3	-36.6		
439	11 22 48.078	-11 22 32.35	15.00	18.17	54.16	25.91	2006.019	10.4	-40.5	9.5	-41.1	11228-1123	
440	11 23 23.207	+39 10 22.70	13.91	18.51	130.38	24.20	2003.316	-32.7	32.2	-27.1	33.8		
441	11 23 29.073	+20 09 24.33	18.91	19.13	62.94	8.10	2005.252	7.2	-48.8	5.2	-52.8	11235+2009	
442	11 24 29.349	+02 05 37.58	15.14	19.38	310.76	24.28	2000.343	-7.1	-44.8	-2.4	-42.9	11245+0205	
443	11 24 36.532	+27 17 07.74	16.46	19.56	215.96	20.73	2004.973	-3.4	-41.3	-5.1	-40.9		
444	11 24 41.486	+23 54 52.37	16.79	18.56	314.21	13.24	2005.096	-53.0	23.0	-48.8	20.4		
445	11 26 04.512	+09 23 41.39	16.99	18.50	126.31	9.55	2002.194	-48.9	-4.4	-45.2	-2.6	11261+0924	
446	11 27 48.193	+10 20 18.37	17.73	18.13	261.96	10.14	2002.194	-52.3	-8.8	-46.7	-3.6		
447	11 27 58.012	+32 16 25.87	16.58	18.07	313.98	19.71	2004.362	-1.2	-45.7	0.4	-48.6	11280+3216	
448	11 28 04.433	-02 09 26.47	18.16	18.44	81.93	8.28	2000.116	-26.5	35.4	-24.7	35.2	11281-0209	
449	11 28 11.645	+06 12 13.60	17.57	17.88	29.86	24.24	2003.248	-47.9	-18.6	-50.4	-19.4	11282+0612	
450	11 28 35.992	+07 48 38.44	18.50	18.99	147.36	23.49	2003.248	33.3	-34.8	25.8	-40.7		

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
451	11 28 40.211	+00 07 29.97	14.41	16.40	79.73	19.79	2007.300	-57.3	14.3	-55.6	13.2	11286+0007
452	11 28 50.052	+46 14 50.88	14.10	18.57	156.12	21.65	2002.950	-30.1	37.4	-31.6	33.4	11288+4615
453	11 28 55.422	+32 06 03.26	14.99	15.97	130.73	27.91	2004.367	-39.6	-15.3	-43.0	-14.6	
454	11 29 39.127	+31 47 18.81	17.73	18.72	298.36	28.87	2004.367	29.6	-30.4	28.3	-30.9	11297+3147
455	11 29 55.782	+20 16 31.56	19.61	19.99	41.94	29.10	2005.252	7.8	-46.3	14.9	-47.0	
456	11 30 14.673	+11 59 45.14	17.15	18.86	144.78	16.67	2003.223	-31.9	-40.6	-27.2	-40.2	
457	11 31 01.662	-00 06 21.98	16.32	16.84	111.49	29.31	1999.221	-57.7	-5.3	-52.4	-7.4	11310-0006
458	11 31 20.252	-05 21 48.94	17.22	17.46	106.47	11.12	2006.016	-23.7	-42.4	-28.2	-46.5	
459	11 31 37.313	+60 02 26.98	16.19	19.15	288.32	26.10	2001.287	27.3	-45.6	28.3	-39.6	
460	11 32 37.206	-00 08 13.18	16.12	19.62	332.55	17.17	1999.221	-51.7	-16.1	-46.6	-11.2	11326-0008
461	11 33 37.489	+00 35 14.66	16.09	16.27	128.17	9.51	2007.300	-51.7	-9.6	-50.6	-10.0	11336+0035
462	11 37 20.686	+30 55 34.76	18.15	18.75	127.77	9.50	2004.362	-35.6	-28.8	-33.2	-24.5	
463	11 39 25.517	+24 52 38.32	18.32	18.49	210.57	8.71	2005.050	-21.6	-55.5	-20.2	-54.7	11394+2453
464	11 40 00.664	+07 33 02.71	15.11	18.55	270.12	17.20	2003.248	42.4	-23.8	38.5	-24.8	
465	11 40 31.275	+51 04 45.65	18.34	20.79	99.09	19.59	2002.035	-31.0	-38.8	-25.8	-32.3	
466	11 41 14.745	+26 53 05.38	15.05	15.60	174.61	23.25	2004.973	19.2	-45.1	18.4	-47.7	11412+2653
467	11 41 38.459	+30 11 44.03	16.82	17.02	143.21	21.09	2004.951	38.7	-21.5	38.9	-21.7	11416+3012
468	11 42 25.230	+07 34 52.05	16.64	18.05	289.68	15.81	2003.248	-40.6	-9.0	-41.1	-9.9	11424+0735
469	11 42 41.818	+25 51 03.23	17.56	17.83	301.56	14.72	2005.050	-29.3	-49.9	-29.5	-48.7	11427+2551
470	11 46 10.967	+54 13 17.71	16.16	19.36	18.72	23.93	2001.964	-49.4	-19.6	-43.1	-17.0	
471	11 46 13.746	+14 53 44.42	18.04	19.30	77.68	11.13	2003.076	-41.1	-25.5	-34.5	-27.7	
472	11 46 54.318	+16 01 05.94	15.84	18.42	275.97	9.84	2004.075	-12.2	-42.6	-11.3	-39.5	
473	11 46 59.601	+59 55 48.95	17.39	17.81	258.83	26.45	2001.287	-3.2	-50.9	-2.4	-52.8	
474	11 47 27.357	+13 32 24.21	13.88	19.06	62.10	11.95	2003.245	-52.6	10.2	-50.6	11.1	
475	11 48 50.958	+67 03 16.89	13.71	16.84	193.82	22.67	2000.264	-41.6	-7.1	-41.5	-3.7	11488+6703
476	11 50 14.190	+05 44 17.06	15.65	15.76	307.65	9.35	2001.140	27.7	-41.2	28.7	-38.5	11502+0544
477	11 50 25.953	+11 10 51.86	16.55	17.36	246.11	14.84	2003.223	-40.9	-13.5	-41.1	-9.3	
478	11 50 31.950	+70 29 03.90	16.38	17.85	137.73	23.05	2006.328	-53.8	-15.9	-56.2	-15.1	11505+7029
479	11 50 33.789	+30 59 12.73	18.14	19.49	94.35	8.26	2004.957	-46.7	-16.5	-44.9	-13.5	
480	11 51 44.352	+48 50 15.63	16.74	19.55	314.26	7.30	2002.106	3.5	-50.3	-3.8	-45.2	
481	11 52 32.042	+11 49 17.73	17.43	19.58	316.86	8.02	2003.245	9.3	-45.0	11.0	-44.6	
482	11 54 26.733	-02 01 57.63	17.13	18.76	119.43	14.47	2000.171	35.4	-30.2	38.3	-33.1	
483	11 54 32.290	+19 20 43.58	18.85	20.08	213.58	18.20	2005.252	-6.1	-47.8	-10.0	-39.9	
484	11 54 45.497	+25 32 19.46	16.89	18.05	142.40	29.29	2005.050	5.8	-53.2	8.5	-53.2	
485	11 55 45.263	+37 46 26.83	16.69	19.46	326.88	11.32	2004.083	-10.5	-40.8	-5.5	-40.7	
486	11 56 55.911	+27 32 03.21	15.99	18.18	43.65	18.03	2004.973	-11.7	-41.5	-11.9	-39.6	
487	11 57 04.921	+59 14 04.80	18.79	19.02	247.82	19.52	2001.287	-49.1	-8.3	-43.8	-6.4	
488	11 58 48.183	+28 28 25.22	19.71	20.30	114.33	10.12	2005.050	-23.5	-41.6	-19.0	-39.8	
489	11 58 56.747	+47 53 23.79	17.95	19.33	216.22	8.39	2003.177	-32.7	-27.6	-33.9	-26.4	
490	12 01 02.531	+09 04 54.59	16.64	19.47	130.68	22.42	2007.286	-43.2	-23.5	-37.8	-18.9	
491	12 01 16.307	+41 58 07.46	15.50	20.00	48.74	12.06	2003.313	41.2	-27.7	44.0	-35.5	
492	12 01 53.823	+19 39 20.94	16.22	20.32	180.50	26.96	2005.356	-54.9	16.1	-52.6	12.9	
493	12 03 17.642	+17 14 50.47	15.18	17.18	192.68	20.60	2005.430	42.2	22.1	46.8	26.5	12033+1715
494	12 03 41.274	+37 14 39.60	17.11	18.44	201.01	10.63	2004.207	-34.8	-31.0	-28.8	-34.3	
495	12 03 47.211	+50 12 30.32	16.46	16.77	113.11	23.29	2002.106	35.6	-30.9	35.3	-33.8	
496	12 04 13.921	+32 37 57.65	13.81	16.08	9.74	19.59	2004.362	-40.9	-26.4	-45.2	-24.8	
497	12 05 24.397	+39 51 02.13	14.77	17.03	227.60	14.92	2004.130	34.2	-43.3	32.6	-40.7	12054+3951
498	12 09 59.477	+34 50 39.07	15.13	16.86	205.18	11.23	2004.283	-32.8	31.6	-35.8	31.1	12100+3451
499	12 11 33.132	+58 27 26.00	15.52	16.72	65.12	15.51	2002.219	20.1	-55.9	18.3	-53.1	12115+5827
500	12 12 26.662	+06 26 31.88	15.15	19.21	97.06	22.61	2003.248	-39.2	8.1	-44.4	5.3	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY				MAG	MAG	PA	SEP	DATE	PRIMARY		SECONDARY		WDS
	RA	DECL		A	B	PMRA				PMDE	PMRA	PMDE	NAME	
501	12 13 23.223	+06 41 36.37	15.20	17.96	291.89	28.38	2003.248	-43.7	13.0	-39.7	13.1			
502	12 15 21.653	-00 22 43.83	17.73	17.95	155.69	24.00	1999.218	-25.3	-36.7	-28.9	-37.5	12153-0022		
503	12 15 34.225	+15 35 59.16	15.31	19.16	194.77	13.51	2003.076	-38.7	-38.1	-37.4	-38.9			
504	12 15 52.022	+04 34 04.25	18.44	18.75	172.34	7.15	2001.140	-54.9	-0.9	-52.3	-7.7			
505	12 17 05.223	+43 37 43.06	15.27	20.00	188.17	11.02	2003.313	-18.5	-37.9	-21.3	-39.5			
506	12 17 06.107	+65 34 35.10	15.30	16.97	296.14	16.44	2001.072	-51.8	-9.0	-50.9	-10.1	12170+6534		
507	12 18 16.649	+29 13 29.30	14.69	18.21	150.72	16.67	2004.951	-22.8	-43.3	-29.0	-49.0			
508	12 18 34.885	+24 40 29.51	16.82	16.96	276.54	15.29	2005.252	36.1	-25.5	35.1	-29.0			
509	12 19 20.652	+55 58 02.98	17.05	19.90	203.93	16.33	2002.248	-38.2	24.9	-39.7	28.7			
510	12 20 52.160	+41 09 21.78	18.40	20.08	49.55	22.59	2004.130	-54.4	12.8	-51.3	16.3			
511	12 22 31.850	+00 53 57.50	17.20	18.19	330.09	22.24	1999.218	10.7	49.3	7.7	45.5	12225+0053		
512	12 24 05.659	+10 04 19.13	16.48	18.25	123.80	13.72	2002.194	-43.6	11.9	-37.4	14.9			
513	12 24 23.268	+00 22 22.82	17.10	18.84	238.85	9.57	1999.221	-42.4	-20.3	-40.3	-16.0	12244+0022		
514	12 24 43.821	+31 46 25.30	16.18	17.77	271.17	17.38	2004.362	-4.1	-49.1	-4.5	-45.2			
515	12 26 49.083	+48 03 15.58	15.29	16.95	336.30	19.24	2003.177	-22.7	-33.4	-22.2	-35.0			
516	12 27 05.757	+22 02 49.93	16.46	17.86	56.68	9.28	2005.189	-1.4	-42.8	2.3	-44.4	12271+2203		
517	12 27 20.261	+63 26 12.42	15.43	15.65	69.86	13.21	2001.391	-54.0	18.4	-51.9	21.3	12273+6326		
518	12 27 33.973	+21 11 12.33	17.44	18.68	182.26	10.87	2005.252	2.9	-46.7	1.2	-44.0	12276+2111		
519	12 31 22.331	+02 33 42.75	18.13	19.39	173.14	10.84	2000.343	-45.4	-0.2	-47.6	8.0	12314+0234		
520	12 32 47.541	-01 58 29.01	16.63	18.78	20.41	11.27	2000.171	-40.1	-2.8	-44.6	-4.9			
521	12 35 44.317	+20 23 16.97	18.83	18.94	229.30	18.67	2005.356	-40.4	15.5	-42.7	21.9	12358+2023		
522	12 35 46.099	+56 41 17.11	16.95	18.84	210.74	8.56	2003.188	-4.6	-43.6	-0.7	-46.5	12358+5641		
523	12 35 53.822	+03 24 19.59	16.40	16.89	139.49	9.34	2000.343	-48.9	14.6	-46.5	14.5			
524	12 37 21.056	+36 06 18.64	16.67	18.82	300.48	13.14	2004.283	21.5	-40.0	22.9	-35.4			
525	12 37 30.243	-22 46 05.80	16.82	19.17	311.87	12.72	2006.085	-44.4	-13.4	-48.7	-8.9			
526	12 39 01.374	+33 54 02.09	16.29	17.14	291.41	13.31	2004.283	0.9	44.3	1.2	42.0	12390+3354		
527	12 39 08.090	+46 33 58.03	15.65	16.27	189.63	25.58	2003.177	-44.3	-16.5	-44.7	-16.5			
528	12 39 22.006	+11 17 57.01	14.21	14.99	139.19	18.68	2003.223	-53.5	5.2	-50.5	3.9			
529	12 40 36.715	+34 44 18.89	14.97	15.14	104.31	11.15	2004.283	-23.6	-49.1	-19.1	-52.1	12406+3444		
530	12 40 59.758	+46 45 10.00	15.31	16.59	200.63	20.43	2003.191	-23.1	37.1	-24.1	39.1	12410+4645		
531	12 41 44.706	+49 45 13.31	17.53	18.38	52.80	14.69	2002.106	-32.9	-25.5	-35.3	-25.2			
532	12 42 32.916	+16 27 43.88	17.82	17.84	312.09	9.42	2005.430	-44.4	5.2	-41.0	9.2	12426+1628		
533	12 42 58.574	-04 46 31.41	17.63	18.34	327.25	12.78	2006.085	-30.4	36.0	-29.6	33.1	12430-0447		
534	12 44 11.643	+10 37 05.11	15.94	19.57	294.34	23.33	2003.319	-25.5	-36.6	-27.0	-37.7			
535	12 47 39.217	+32 54 02.43	17.69	18.72	315.83	9.18	2004.362	-52.8	11.6	-50.9	9.2	12477+3254		
536	12 48 04.436	-01 25 42.20	14.83	18.23	234.47	12.74	2006.331	21.7	-50.6	22.5	-53.0	12481-0126		
537	12 48 18.910	-11 27 44.85	18.00	19.19	264.93	11.20	2006.085	-3.4	-46.4	-5.6	-44.4			
538	12 48 22.429	+05 27 24.00	14.91	15.58	160.25	25.79	2006.085	-10.0	-50.3	-7.6	-47.4	12484+0528		
539	12 49 01.434	+24 00 54.20	15.43	18.04	155.43	27.99	2005.252	-53.2	23.4	-50.1	20.8			
540	12 49 44.044	+06 16 38.90	14.26	14.99	322.72	13.66	2003.248	-40.0	23.4	-37.8	25.3			
541	12 51 20.304	+12 20 37.82	14.60	17.68	8.31	19.81	2003.245	9.5	-41.5	14.8	-39.8			
542	12 52 07.960	+11 59 56.82	17.66	18.68	84.94	8.15	2003.223	-46.8	7.8	-48.0	6.2	12521+1200		
543	12 52 12.110	+47 33 02.98	19.04	20.01	100.06	27.00	2003.191	-35.2	23.1	-33.5	27.4			
544	12 52 21.480	-02 16 04.66	17.50	18.08	1.52	9.56	2000.171	-52.1	-9.7	-57.3	-9.2	12524-0216		
545	12 53 04.694	+13 09 57.28	16.78	19.25	327.61	24.32	2003.245	-40.7	6.0	-40.8	-0.6			
546	12 53 11.726	+42 54 55.31	17.61	18.40	338.26	22.44	2003.313	-34.5	-30.8	-29.9	-28.9			
547	12 56 51.031	+20 56 23.15	16.84	17.27	306.80	11.69	2005.252	-54.7	18.7	-52.5	18.5	12569+2056		
548	12 57 22.648	+08 30 52.24	16.35	17.80	251.49	8.77	2003.248	45.2	-33.8	42.7	-30.1			
549	12 57 42.887	+09 25 21.70	18.43	18.51	93.55	10.54	2003.319	-45.5	5.2	-42.3	4.7	12577+0925		
550	12 57 44.844	+12 29 51.46	19.13	19.76	38.80	18.67	2003.223	-50.9	-22.1	-49.5	-17.0			

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY			MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL		A	B				PMRA	PMDE	PMRA	PMDE	
551	12 58 22.848	+06 39 30.02		16.41	17.94	290.47	12.20	2003.248	40.6	-30.1	38.4	-29.7	12584+0639
552	12 58 25.398	+00 05 06.54		18.26	19.75	239.67	8.78	1999.218	32.8	-27.5	37.6	-18.0	
553	12 58 42.863	+33 09 15.11		17.43	20.05	348.55	23.67	2004.362	-44.0	-13.3	-39.2	-18.0	
554	12 59 33.397	-01 18 45.10		18.22	18.75	90.62	9.52	2000.116	-44.4	5.5	-49.2	6.0	
555	12 59 56.421	+21 15 31.47		15.71	19.71	43.17	9.05	2005.189	-15.6	-40.3	-17.9	-41.1	12599+2115
556	13 00 50.925	+49 08 25.88		18.02	19.87	246.41	14.84	2003.087	-45.4	3.9	-43.4	-3.8	
557	13 02 13.485	-02 09 17.52		13.60	19.43	284.22	17.51	2000.116	7.2	-41.7	0.1	-43.9	13022-0209
558	13 02 35.868	+67 25 02.53		16.78	19.80	156.48	9.86	2000.321	-9.7	48.6	-14.6	51.5	
559	13 03 47.026	+08 07 07.77		14.64	16.07	298.74	23.23	2003.248	2.6	-51.1	4.2	-49.4	13038+0807
560	13 04 20.911	-02 39 21.87		17.51	19.45	258.04	23.39	2000.116	-42.3	-17.3	-40.0	-23.7	
561	13 04 26.467	+04 39 13.32		16.58	18.10	233.16	28.80	2001.290	13.1	-53.7	11.6	-49.0	
562	13 04 59.411	+21 38 57.51		17.03	17.22	187.56	20.84	2005.189	-29.3	-31.4	-30.1	-26.8	13050+2139
563	13 05 41.827	+05 36 59.22		16.72	19.27	191.48	12.16	2001.214	-42.3	-21.9	-44.6	-15.3	13057+0537
564	13 08 19.147	+20 07 31.00		16.95	17.94	185.81	13.36	2005.356	-47.1	18.2	-49.7	18.2	
565	13 08 20.412	+51 30 16.57		16.35	16.72	357.37	8.89	2003.246	-46.0	17.3	-46.2	20.7	
566	13 09 12.377	+40 12 33.44		17.36	18.18	122.57	13.15	2003.316	-40.5	25.7	-37.7	22.3	13092+4013
567	13 09 24.050	+31 14 07.03		17.30	19.06	140.47	21.91	2004.362	14.9	-45.2	12.5	-44.8	
568	13 09 29.939	+62 16 11.83		16.29	19.77	136.84	19.18	2001.378	-50.2	-17.3	-44.0	-14.9	13095+6216
569	13 09 50.736	+61 13 22.64		16.13	18.47	54.87	12.98	2001.391	-46.6	-17.8	-44.3	-15.2	13098+6113
570	13 10 48.328	+02 51 44.04		19.52	20.13	24.41	29.35	2000.340	-51.5	-21.3	-45.2	-20.3	
571	13 12 34.238	+21 20 47.03		16.78	18.61	136.38	20.14	2005.189	22.2	-37.1	20.3	-37.2	
572	13 13 53.587	+01 02 15.44		14.96	19.54	220.76	8.62	1999.218	-44.8	-34.9	-40.7	-39.2	13139+0102
573	13 14 10.914	+02 38 39.78		16.77	16.85	36.33	24.66	2000.343	-43.0	-24.8	-39.6	-28.5	13142+0238
574	13 14 26.289	+26 58 01.24		18.29	18.52	81.57	17.75	2004.973	-20.4	-41.8	-15.0	-38.6	
575	13 15 20.870	+37 40 37.84		16.96	19.92	91.72	23.79	2004.130	-31.3	-38.6	-26.0	-36.6	
576	13 15 25.145	+10 18 38.37		17.11	17.17	156.51	14.35	2003.322	31.7	-35.9	29.3	-32.3	13155+3204
577	13 15 24.973	+32 03 27.15		16.40	17.37	259.63	27.15	2004.316	-22.0	-38.9	-23.3	-36.3	13154+1019
578	13 15 45.507	+00 29 25.32		16.69	18.19	83.83	15.47	1999.218	-42.8	-14.1	-47.4	-13.6	
579	13 15 49.088	+42 51 25.87		15.88	17.14	336.62	23.52	2003.313	43.5	-30.0	46.2	-29.1	13158+4251
580	13 16 08.293	+03 19 25.82		17.05	17.87	107.50	10.78	2000.343	-41.7	8.2	-40.2	12.9	
581	13 16 17.526	+12 02 05.15		16.29	17.43	52.69	9.72	2003.245	23.3	-36.8	25.4	-36.7	
582	13 16 24.631	-01 33 45.32		16.09	17.71	28.29	16.82	2001.394	38.4	-33.7	37.1	-34.1	13164-0134
583	13 17 10.769	+31 23 51.88		14.88	19.47	115.89	27.65	2004.362	-50.4	-15.5	-46.0	-14.0	13171+3124
584	13 18 24.241	+43 48 05.63		19.64	20.20	249.08	19.25	2003.232	-39.8	10.8	-45.4	19.0	
585	13 18 47.581	+26 16 48.83		15.32	18.47	228.15	24.17	2005.050	-45.3	10.7	-46.0	8.8	
586	13 19 44.750	+10 17 30.80		16.51	18.06	120.71	22.69	2003.322	-47.6	-5.4	-43.8	-7.3	13197+1018
587	13 21 21.567	+11 18 19.10		15.51	15.62	277.45	23.40	2006.399	35.5	-43.9	38.0	-43.5	
588	13 21 54.102	+62 50 30.18		15.85	17.99	60.58	13.98	2001.378	4.7	-48.6	9.3	-47.1	13219+6250
589	13 22 03.713	+19 35 48.67		16.01	16.30	356.59	13.50	2005.353	7.9	-40.8	9.3	-42.3	
590	13 23 31.876	+44 29 49.24		15.71	15.77	256.35	24.78	2003.232	-49.0	17.5	-46.1	19.4	13235+4430
591	13 24 28.120	+08 16 25.37		16.10	18.51	128.46	10.63	2006.396	-32.2	-41.3	-27.5	-44.0	
592	13 25 33.378	+01 46 33.69		14.82	17.36	276.31	14.76	2000.340	-34.1	-34.4	-33.8	-33.2	13250+0146
593	13 26 10.098	+03 27 51.36		16.26	16.44	118.49	11.66	2000.340	-40.9	-4.5	-40.3	-3.7	13262+0328
594	13 26 41.305	+25 45 29.54		16.43	16.88	289.46	10.78	2004.973	-43.1	-14.3	-39.9	-13.6	13267+2545
595	13 27 22.035	+46 28 01.33		17.63	19.16	169.84	17.01	2003.191	-43.8	-3.7	-44.5	-2.9	
596	13 27 46.143	+48 27 36.07		15.03	16.72	27.64	11.74	2003.087	26.2	-37.5	28.0	-37.8	
597	13 29 15.404	+02 12 06.84		15.48	18.28	321.99	25.26	2000.340	27.3	-34.7	26.3	-35.7	
598	13 31 06.966	+66 30 55.71		16.49	17.26	249.04	18.40	2000.264	-49.5	-18.2	-52.2	-24.0	
599	13 31 11.568	+53 53 44.49		18.99	19.49	183.79	7.93	2002.287	-54.0	5.1	-56.1	9.1	
600	13 32 25.746	+59 02 41.99		16.62	18.81	162.67	22.85	2002.120	-45.1	-10.7	-42.4	-14.2	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
601	13 33 21.666	+35 58 04.83	16.16	16.92	346.91	9.51	2004.209	-43.6	-22.7	-45.0	-22.7	13334+3558
602	13 34 01.606	+47 14 58.78	17.97	19.90	326.19	14.89	2003.191	-20.8	-37.3	-29.1	-33.6	
603	13 34 58.977	+22 29 35.22	18.02	19.81	92.81	26.86	2005.189	-36.1	-31.3	-41.3	-33.5	13350+2230
604	13 35 45.012	+11 23 47.40	16.56	18.00	344.11	13.73	2003.245	-46.6	6.7	-48.6	7.7	
605	13 35 57.389	+39 24 26.12	16.58	18.03	206.60	14.38	2003.316	-25.3	-35.2	-25.1	-38.5	13360+3925
606	13 36 04.608	+07 39 07.80	17.92	18.54	104.88	10.79	2003.248	-42.9	-19.2	-46.0	-23.2	
607	13 36 52.788	+16 21 34.06	18.88	18.89	109.33	9.98	2005.364	-41.5	12.4	-41.0	11.6	13369+1622
608	13 37 42.053	-00 57 13.51	16.81	17.44	174.95	16.87	1999.221	-48.1	5.6	-50.6	2.8	
609	13 37 58.269	+44 22 33.84	18.88	19.58	294.56	26.56	2003.232	-30.8	-27.4	-31.3	-25.2	
610	13 38 45.958	+39 27 14.26	17.41	17.49	219.36	22.53	2004.075	26.8	-35.9	24.8	-33.9	13388+3928
611	13 39 30.618	+51 52 06.51	14.81	18.68	189.77	12.90	2001.970	-31.6	39.7	-37.3	35.5	
612	13 39 43.666	+33 16 23.39	16.91	18.44	145.41	14.24	2004.283	-54.2	8.7	-48.4	4.8	
613	13 42 25.922	+21 20 30.00	16.43	17.12	261.01	21.70	2005.195	19.0	-44.0	19.6	-42.1	13425+2121
614	13 43 26.676	+36 24 33.23	17.86	18.86	358.09	25.28	2004.209	-39.7	4.8	-45.5	1.0	
615	13 45 51.188	+41 57 20.32	16.12	16.16	278.56	21.76	2003.226	-41.9	1.1	-40.7	5.7	13459+4157
616	13 47 31.591	+10 18 10.88	15.74	18.18	259.83	19.81	2003.322	-46.4	-6.5	-44.5	-3.9	
617	13 48 03.147	+52 44 49.80	15.85	19.45	21.56	12.74	2002.350	14.9	-47.3	14.9	-46.7	13480+5245
618	13 48 04.126	+02 04 29.41	19.01	19.38	317.10	23.86	2000.343	-40.5	10.0	-44.5	1.9	
619	13 49 20.763	+37 48 27.96	15.27	17.05	349.90	23.70	2004.075	-45.4	21.5	-47.6	20.4	13494+3748
620	13 51 41.723	+33 33 13.80	17.08	19.40	207.94	21.58	2004.283	-53.6	15.3	-47.6	19.0	13517+3334
621	13 51 43.166	+17 22 06.77	17.31	18.52	212.38	24.68	2005.356	-54.3	18.8	-55.8	19.2	
622	13 53 17.783	+04 12 43.51	18.91	19.05	294.88	20.58	2001.290	-51.3	5.7	-59.7	5.3	13533+0413
623	13 53 38.734	-08 11 32.58	15.11	19.40	32.44	8.09	2006.396	-48.8	-3.7	-43.9	-8.6	
624	13 53 50.380	+23 03 03.72	16.97	18.26	206.47	7.37	2004.452	25.9	-42.9	24.1	-45.4	13538+2303
625	13 54 00.209	+12 58 18.58	15.69	17.81	39.67	9.63	2003.409	-39.7	9.0	-42.0	8.5	
626	13 54 59.952	+42 14 40.54	17.62	18.12	234.06	14.68	2003.232	-8.2	-42.8	-7.8	-47.2	
627	13 55 23.688	+07 42 28.84	16.81	17.39	117.68	15.26	2003.248	-39.4	13.8	-39.3	11.2	
628	13 56 51.048	+46 48 03.48	16.04	16.59	296.70	10.66	2002.107	-40.1	20.0	-44.5	20.4	
629	13 57 00.858	+01 55 39.51	17.97	19.30	24.42	15.39	2000.343	4.3	-42.7	9.7	-40.4	
630	14 01 35.775	+23 56 51.51	14.51	18.29	37.58	22.83	2004.452	-46.1	3.6	-45.2	6.2	
631	14 03 13.979	+16 54 22.17	16.12	18.14	21.24	24.74	2005.356	39.1	-35.7	34.1	-36.3	
632	14 03 17.273	-01 56 15.93	15.90	19.05	163.06	12.24	2001.394	20.1	41.2	21.4	44.1	
633	14 03 30.181	+29 16 44.32	19.22	19.30	279.07	8.05	2004.308	-0.5	-52.4	-2.5	-46.6	
634	14 04 05.597	+50 57 17.17	18.13	19.07	253.68	11.44	2002.350	24.3	-38.5	23.3	-36.2	
635	14 04 26.297	-12 03 37.74	19.20	20.18	32.44	13.90	2006.396	-4.4	-50.4	-6.4	-52.3	
636	14 06 16.758	-03 12 09.10	17.54	18.99	182.43	15.52	2001.394	-55.2	20.3	-48.7	21.9	
637	14 06 19.970	+01 27 52.30	17.14	18.65	38.58	16.14	2000.343	-42.5	-16.4	-45.8	-16.5	
638	14 07 21.940	+13 20 47.60	18.17	18.50	71.23	21.37	2003.472	-10.0	-43.6	-12.7	-43.0	14073+1321
639	14 09 32.034	+30 35 07.09	14.82	16.54	316.49	12.19	2004.291	9.5	55.8	7.4	55.0	
640	14 10 05.386	+09 02 22.32	18.83	19.44	55.26	25.90	2003.322	-51.6	-8.3	-47.6	-4.8	14101+0902
641	14 10 09.837	+23 54 18.56	18.04	18.87	114.14	15.74	2004.447	-30.5	-30.0	-24.1	-35.1	
642	14 10 41.467	+01 05 06.25	15.06	19.37	276.99	11.70	2000.343	5.0	-44.5	0.4	-47.6	14107+0105
643	14 10 47.119	-02 20 47.68	17.15	19.61	295.27	14.30	2001.394	-29.0	-32.9	-24.6	-33.4	14108-0221
644	14 11 30.207	+49 48 22.19	17.89	19.35	58.16	7.09	2003.324	-26.0	-35.7	-25.0	-32.5	
645	14 12 45.650	+11 59 03.01	17.78	18.49	200.15	10.19	2003.314	-55.7	12.2	-55.8	15.0	
646	14 13 55.160	+28 58 26.62	19.43	19.53	117.73	29.00	2004.362	-37.0	25.2	-29.8	27.1	
647	14 16 02.256	+04 06 05.85	18.79	18.91	322.10	10.89	2000.357	-48.2	-32.3	-42.5	-33.5	
648	14 16 47.283	+04 58 09.16	17.43	18.11	305.28	7.99	2000.357	-40.1	36.6	-38.4	33.2	
649	14 17 07.254	+38 57 37.87	15.93	17.90	70.47	16.35	2003.314	18.9	-43.6	22.4	-43.3	
650	14 19 47.133	+05 09 30.20	17.97	19.88	186.09	12.35	2001.214	-42.6	4.3	-44.3	6.0	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
651	14 22 55.200	+06 30 30.40	17.01	18.20	170.26	15.23	2001.457	-21.7	41.9	-22.9	40.5	14229+0631
652	14 23 09.597	+48 11 22.60	18.58	18.68	315.51	15.16	2003.324	-41.7	-17.3	-44.6	-14.9	
653	14 24 17.204	+25 20 51.64	16.76	18.60	284.08	11.65	2004.390	-27.3	29.7	-29.0	33.4	14243+2521
654	14 25 58.619	+32 28 07.44	15.47	16.37	97.07	22.91	2003.478	-42.6	24.2	-45.7	27.4	
655	14 27 06.132	+13 33 51.46	16.37	19.66	181.70	7.66	2003.472	-40.5	23.1	-45.1	18.7	
656	14 28 30.342	+05 24 55.93	18.08	18.38	99.58	8.40	2003.322	-41.4	-12.7	-44.2	-18.4	
657	14 28 36.244	-03 41 04.20	17.15	19.00	79.88	25.59	2007.300	-42.0	-4.9	-45.7	-4.0	
658	14 30 03.438	+25 28 23.03	16.28	16.71	29.38	21.82	2004.390	-51.2	-11.6	-56.2	-14.0	
659	14 30 17.852	+14 44 37.68	16.89	18.61	3.87	18.51	2005.362	-16.5	-40.9	-17.8	-38.4	
660	14 30 30.956	-00 18 15.18	13.93	16.24	92.47	23.58	1999.218	-33.5	-28.8	-32.0	-25.0	
661	14 31 17.751	+49 10 29.02	15.18	15.45	334.17	15.79	2002.350	-25.0	49.9	-23.6	51.2	14313+4910
662	14 32 24.015	+05 06 59.74	16.69	18.10	278.52	12.02	2001.457	-40.8	-2.3	-40.1	-7.2	
663	14 32 31.981	+38 57 59.31	16.66	18.76	45.00	13.18	2003.226	-41.4	-13.9	-42.4	-10.6	
664	14 32 47.065	+36 39 20.24	17.21	17.83	95.49	8.17	2003.325	5.9	-58.8	5.8	-53.2	14328+3639
665	14 33 07.583	+34 07 45.90	18.25	18.47	225.08	26.41	2003.475	-54.1	-10.6	-50.8	-9.2	
666	14 33 35.532	+48 31 27.74	18.17	20.37	214.48	25.39	2003.246	-39.9	15.3	-40.9	11.7	
667	14 33 43.272	+23 59 47.88	16.80	18.71	269.57	14.43	2004.450	-29.5	-29.4	-30.5	-30.6	
668	14 33 53.315	+60 19 45.17	15.67	17.04	10.79	23.11	2001.072	42.1	-37.6	42.9	-35.0	14339+6019
669	14 34 28.327	+10 27 48.09	15.63	16.51	48.84	14.48	2003.314	-0.3	-47.5	-2.7	-47.2	
670	14 35 45.213	+39 33 58.21	17.66	20.22	164.73	13.55	2003.226	15.8	-41.4	14.2	-48.9	
671	14 37 16.896	+07 05 56.75	17.60	19.86	257.66	26.33	2003.322	-39.9	9.6	-46.6	5.8	
672	14 37 50.946	+58 50 33.50	16.31	19.25	217.95	18.42	2001.392	27.0	-39.3	27.0	-34.0	14379+5851
673	14 38 54.342	+17 07 10.83	18.80	19.62	102.19	12.99	2005.356	-39.8	35.1	-38.1	34.3	14389+1707
674	14 41 12.936	+00 36 59.63	19.25	19.85	208.32	26.09	1999.218	-20.0	-42.9	-11.2	-46.6	
675	14 41 27.551	+01 56 16.43	16.47	17.42	54.06	24.52	2000.341	4.7	-40.3	7.9	-40.6	14414+0156
676	14 42 13.679	-03 12 56.17	14.16	19.09	74.61	13.20	2001.454	19.1	-47.1	19.0	-49.5	
677	14 43 08.717	-04 49 33.19	18.99	19.61	174.66	8.31	2007.300	-51.9	-9.3	-50.2	-15.6	
678	14 43 36.436	+44 13 28.10	17.88	18.20	69.82	15.83	2003.114	-42.6	13.9	-44.1	15.4	
679	14 44 23.483	+24 53 51.23	16.59	18.44	262.49	10.40	2004.390	-43.6	2.5	-43.0	1.5	14444+2454
680	14 44 52.572	+10 17 29.12	15.52	19.61	242.24	22.19	2003.314	-25.3	36.2	-27.1	33.6	14449+1018
681	14 44 58.900	+01 35 44.78	14.07	18.55	284.99	10.15	2000.341	-25.7	-49.5	-28.0	-47.3	14450+0136
682	14 46 16.004	+42 53 09.46	16.85	18.42	235.29	12.22	2003.114	1.2	-40.9	0.8	-43.2	14463+4253
683	14 46 37.802	+45 27 33.17	16.14	18.17	194.12	13.68	2003.406	-30.0	-26.5	-32.7	-27.9	14466+4528
684	14 46 56.229	+34 18 48.82	15.80	16.08	315.98	24.74	2003.475	-47.3	3.8	-47.9	8.2	
685	14 47 03.712	+14 56 20.53	17.82	19.35	239.00	15.17	2005.362	-24.4	-37.5	-20.3	-40.7	14471+1456
686	14 47 59.476	+21 10 03.66	18.30	18.96	320.11	27.81	2004.452	-41.0	-8.2	-45.5	-12.3	
687	14 48 40.969	+27 28 07.89	16.72	17.05	170.66	11.72	2004.365	-37.9	-18.2	-39.8	-17.2	
688	14 49 29.751	+14 44 20.23	15.71	17.00	144.81	14.40	2005.362	-47.8	1.9	-46.8	4.0	14495+1445
689	14 49 38.729	+18 40 21.35	15.19	19.87	48.94	11.35	2005.195	-42.0	-17.6	-42.2	-22.9	14496+1840
690	14 50 31.365	+11 07 10.69	18.53	19.76	211.61	19.12	2003.472	-35.3	-36.7	-43.2	-40.7	
691	14 51 53.418	+11 28 16.27	15.45	18.93	229.27	13.76	2003.472	-8.5	-43.5	-7.6	-40.4	
692	14 51 53.856	-06 04 54.31	16.86	19.83	272.75	28.27	2007.300	-35.1	-23.8	-38.7	-28.0	
693	14 52 20.364	+38 28 31.18	15.61	17.96	92.04	23.92	2003.226	-40.5	6.2	-44.0	3.5	
694	14 52 25.115	+15 33 12.57	15.52	16.58	215.33	12.92	2005.356	-35.7	-31.2	-35.0	-31.4	
695	14 53 26.534	+52 41 06.54	18.80	19.90	152.68	13.19	2002.352	-45.7	2.7	-52.9	3.1	
696	14 54 16.415	+25 42 05.03	17.76	18.17	300.02	13.50	2004.365	-40.7	23.5	-43.6	28.7	
697	14 55 09.759	+25 56 52.40	18.81	19.32	22.34	14.65	2004.308	-53.2	17.1	-51.4	14.8	
698	14 56 00.419	+40 35 44.35	17.78	20.48	191.85	19.47	2003.191	-44.7	4.0	-48.4	-3.7	
699	14 56 20.074	+29 41 00.55	17.16	17.90	347.63	9.30	2004.209	-13.1	-40.5	-13.1	-38.4	
700	14 56 21.210	+05 48 24.69	17.79	20.17	162.05	17.30	2003.322	-11.2	-42.1	-7.8	-39.9	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG A	MAG B	PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL						PMRA	PMDE	PMRA	PMDE	
701	14 56 21.363	+11 03 18.04	15.97	18.48	254.92	14.26	2003.409	-51.2	26.9	-49.6	29.8	
702	14 58 17.647	+18 16 20.76	15.96	17.43	167.53	8.89	2005.195	14.0	-40.8	9.4	-44.5	
703	14 59 16.468	-00 24 00.86	16.99	17.61	217.62	23.71	1999.218	-39.7	-8.5	-42.1	-3.1	14593-0024
704	14 59 20.706	+23 05 40.86	15.69	18.18	48.45	29.76	2004.447	-27.6	37.3	-27.4	34.5	
705	15 01 08.004	+13 59 25.42	16.39	17.22	320.36	11.51	2005.364	8.6	-44.1	9.7	-44.8	
706	15 02 06.799	+26 56 46.31	14.77	17.44	345.39	28.96	2004.288	-51.9	-0.3	-50.5	-0.8	15021+2656
707	15 02 24.152	+08 40 24.22	15.60	19.75	87.87	9.46	2003.322	-44.7	-13.1	-49.8	-15.8	
708	15 04 10.522	+02 15 13.75	18.33	19.01	267.48	9.96	2000.341	17.4	-37.6	19.6	-46.2	
709	15 04 12.984	+35 52 14.05	19.12	19.23	153.36	7.39	2003.314	1.2	-56.0	-0.6	-58.2	
710	15 05 54.987	+51 58 35.21	17.60	19.66	314.20	9.56	2002.352	-15.9	47.7	-22.0	53.4	
711	15 07 53.823	+00 20 33.70	17.02	18.98	199.30	17.17	1999.221	-49.0	-0.3	-50.8	-8.3	
712	15 08 01.746	+43 54 40.11	14.79	15.60	316.35	12.53	2003.324	14.7	-47.5	13.6	-48.0	
713	15 08 43.716	+06 46 35.52	15.58	16.94	331.54	10.90	2003.322	-43.3	0.9	-45.7	-0.4	15087+0646
714	15 10 55.495	+05 59 02.81	15.42	16.06	22.98	11.41	2001.457	-41.8	2.5	-43.6	4.1	
715	15 14 05.087	+04 01 44.54	15.53	16.89	23.29	24.70	2001.214	-40.7	32.2	-38.5	29.0	15140+0401
716	15 16 02.682	+55 55 27.76	18.80	19.95	127.12	13.71	2000.261	-4.4	49.9	-4.2	47.6	
717	15 17 03.019	+23 49 52.31	14.14	15.86	218.39	13.20	2004.368	-18.4	-37.8	-15.9	-41.6	
718	15 18 11.196	+26 42 14.19	18.99	19.05	55.60	9.28	2004.291	30.2	-45.4	36.3	-41.2	
719	15 19 29.160	+52 47 41.67	15.58	16.63	285.27	17.03	2001.392	2.3	-58.6	5.1	-56.9	15195+5248
720	15 19 39.461	+36 46 07.60	16.86	17.29	68.33	8.53	2003.177	-41.4	7.5	-40.9	8.4	
721	15 20 25.749	+48 39 34.59	18.14	19.22	155.38	7.85	2002.353	-32.4	24.7	-31.9	28.4	
722	15 21 35.026	+04 37 01.07	13.82	14.15	333.13	17.15	2001.457	40.2	-8.6	41.6	-7.3	
723	15 22 15.293	+12 06 24.15	17.86	18.69	357.56	22.48	2005.364	-49.4	-1.3	-42.9	-2.6	15223+1206
724	15 22 21.118	+54 08 00.18	14.87	15.88	180.76	27.87	2001.392	-30.5	-32.5	-31.5	-31.5	15224+5408
725	15 24 09.577	+06 16 23.96	15.35	18.72	358.73	10.03	2003.322	-42.8	7.3	-43.3	10.2	15242+0616
726	15 25 48.086	+47 03 03.19	16.72	17.39	118.57	11.43	2003.180	-16.9	44.2	-14.6	44.6	15258+4703
727	15 26 09.221	+02 21 20.82	15.50	16.57	356.92	14.71	2000.341	-16.3	41.4	-19.1	40.2	15262+0221
728	15 26 17.379	+07 03 13.96	18.21	19.63	84.15	18.99	2003.322	-36.8	-36.0	-33.6	-28.1	
729	15 27 49.296	+11 54 12.27	14.84	19.81	81.00	23.10	2005.364	-17.5	-37.1	-17.1	-40.1	
730	15 27 49.151	+09 19 13.96	18.38	18.51	82.07	7.71	2003.472	-41.6	-15.0	-42.9	-19.2	15278+1154
731	15 29 37.204	+58 20 56.82	14.01	17.58	59.70	21.50	2006.394	-10.3	-46.5	-16.0	-49.1	15290+5820
732	15 30 36.039	+03 02 57.15	16.82	19.87	192.28	27.76	2000.357	-45.3	-4.9	-47.0	-5.7	
733	15 30 47.247	+29 13 28.35	17.09	18.90	170.19	8.18	2003.475	17.0	-53.2	11.6	-57.3	
734	15 31 25.806	+26 46 15.25	17.64	19.74	48.19	13.47	2004.209	12.5	-41.5	15.2	-38.9	
735	15 32 33.841	+19 03 13.09	16.93	17.87	278.28	27.87	2004.447	-31.4	-36.5	-27.2	-38.5	15326+1903
736	15 33 36.343	-01 24 59.57	18.38	19.25	62.00	24.96	2001.394	6.0	-50.7	2.1	-55.2	15336-0125
737	15 33 57.559	+26 09 55.15	17.09	18.63	319.68	11.17	2003.480	-38.1	-22.0	-40.5	-18.4	15340+2610
738	15 34 55.826	+11 15 30.15	16.46	18.28	44.67	9.38	2005.362	-47.7	19.5	-45.6	22.2	15349+1115
739	15 35 08.351	+08 36 28.59	16.86	18.76	189.55	8.09	2003.245	-27.3	-39.1	-19.9	-35.4	
740	15 35 16.055	+49 14 11.67	16.21	16.33	53.31	28.74	2002.437	-40.4	37.0	-37.5	39.4	15353+4914
741	15 35 50.985	+16 11 00.64	14.86	16.45	5.17	10.08	2005.362	-34.7	29.7	-37.1	31.6	
742	15 36 05.421	+10 54 26.42	17.66	20.06	326.42	12.41	2005.364	-46.4	36.4	-43.5	33.5	
743	15 36 27.002	+47 38 21.68	18.20	18.63	209.98	15.67	2002.438	-28.6	36.4	-31.0	37.8	
744	15 36 44.096	+23 53 03.28	16.73	18.21	112.19	9.23	2004.291	-42.8	13.1	-45.5	7.8	
745	15 37 37.409	+13 52 24.63	16.88	17.68	133.08	21.87	2005.359	4.7	-43.7	4.8	-43.1	
746	15 37 42.671	+40 54 49.96	15.64	16.32	284.80	13.36	2003.406	24.6	-35.0	27.9	-33.3	15377+4055
747	15 38 08.160	+39 18 14.84	15.15	18.14	36.33	14.26	2003.406	-40.5	-13.6	-39.2	-11.8	15381+3918
748	15 38 24.738	+41 15 49.62	15.26	18.53	213.32	23.36	2003.406	-6.5	45.1	-9.6	43.0	
749	15 38 46.635	+19 34 09.72	14.90	17.30	154.40	10.33	2004.393	-56.5	-16.7	-56.5	-18.6	
750	15 40 44.639	+07 41 26.82	16.55	16.96	19.11	15.88	2003.314	-15.4	-38.7	-11.7	-40.5	15407+0741

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
751	15 42 24.413	+06 19 54.16	15.63	17.26	205.22	16.30	2003.319	-41.3	-36.3	-38.2	-32.3	
752	15 42 43.617	+16 53 14.71	17.62	18.96	139.76	13.15	2004.452	-23.6	42.8	-23.7	39.3	15427+1653
753	15 43 53.789	+44 21 46.70	16.35	17.15	294.21	29.27	2002.353	6.8	-52.3	6.5	-57.0	15439+4422
754	15 45 29.227	+15 42 51.27	17.20	18.12	223.75	10.38	2004.452	0.6	-44.6	1.5	-45.2	15455+1543
755	15 46 52.545	+59 09 46.09	18.52	18.55	125.84	25.03	2003.481	30.0	-51.9	31.8	-49.8	15468+5910
756	15 49 26.231	+10 34 03.31	17.28	17.76	216.65	13.11	2003.472	-53.4	-17.7	-52.6	-13.2	
757	15 49 47.136	+10 07 42.29	17.73	18.23	219.65	7.31	2003.472	-45.2	8.7	-49.2	6.4	
758	15 50 23.370	+48 56 32.37	15.72	16.41	200.31	9.88	2001.392	1.7	-43.1	-1.7	-43.3	
759	15 50 24.993	+35 51 31.42	18.69	19.52	125.11	8.50	2003.407	-44.0	17.6	-42.9	23.9	15504+3552
760	15 50 34.397	+19 08 52.24	16.38	18.46	236.21	26.38	2004.390	-29.3	-43.5	-29.7	-44.2	15506+1909
761	15 50 41.622	+51 55 07.84	16.44	16.88	210.84	28.13	2001.290	8.9	40.2	3.1	40.4	
762	15 52 16.694	+54 01 55.53	18.57	18.60	303.45	28.32	2000.321	25.8	-31.5	32.1	-30.1	
763	15 53 45.955	+17 26 29.92	17.00	17.77	83.82	19.24	2004.450	-14.7	-48.9	-13.5	-47.7	
764	15 54 00.477	+15 18 36.82	17.07	18.61	158.25	18.27	2004.452	-17.9	42.6	-20.3	39.9	
765	15 55 26.034	+38 54 25.50	16.74	17.40	36.82	12.25	2003.406	-29.4	39.2	-29.0	42.4	15554+3854
766	15 56 13.286	+41 00 00.98	16.96	17.85	304.44	13.17	2002.353	-13.1	46.6	-12.1	50.5	15562+4100
767	15 57 08.438	-00 06 49.39	14.91	15.61	302.71	10.33	2005.432	-31.2	-26.7	-30.3	-27.9	
768	16 00 00.756	+02 10 50.67	16.93	19.55	76.53	7.96	2000.341	-19.0	-46.5	-18.9	-52.8	
769	16 00 10.323	+38 30 42.74	17.21	18.53	98.48	11.16	2002.350	19.5	-39.1	23.8	-44.7	
770	16 01 01.498	+10 28 59.88	16.66	17.52	38.60	11.35	2005.362	-46.0	-36.0	-46.4	-32.4	16010+1029
771	16 02 00.981	+08 11 55.63	16.18	17.66	221.01	9.84	2003.314	-44.2	9.0	-41.7	8.3	16020+0812
772	16 03 19.423	+26 10 41.71	17.53	19.16	5.69	15.68	2003.475	-41.5	-2.0	-43.6	-6.6	
773	16 04 28.059	+23 16 43.05	17.26	18.44	355.29	9.52	2003.480	-7.7	-50.6	-8.5	-49.5	16045+2317
774	16 05 32.974	+55 03 33.42	17.13	17.95	239.48	8.67	2004.453	-15.3	46.3	-16.9	51.1	
775	16 06 28.601	+29 27 50.64	17.75	19.99	322.56	7.53	2003.330	5.2	-51.2	2.9	-49.5	
776	16 10 10.808	+01 05 37.26	16.12	17.78	21.97	11.25	1999.216	33.1	-36.7	34.8	-35.0	
777	16 12 10.758	+04 23 13.74	17.41	19.23	60.51	19.70	2003.322	-22.5	-35.9	-26.4	-34.5	
778	16 12 52.739	+56 12 55.88	15.85	16.71	106.63	18.07	2004.365	-30.4	30.3	-32.0	25.8	16128+5613
779	16 14 10.128	+03 17 23.35	15.21	18.14	145.67	8.74	2001.457	-5.3	-52.0	-5.8	-49.1	
780	16 15 21.575	+32 38 28.40	16.64	17.74	73.63	23.37	2003.324	-48.1	-6.8	-46.2	-9.9	16153+3238
781	16 18 12.669	+09 10 21.76	17.81	18.37	182.80	27.27	2005.365	-35.0	32.6	-30.8	32.5	
782	16 19 25.790	+38 54 05.80	17.78	19.30	326.77	10.88	2002.353	19.2	-46.0	14.6	-44.0	
783	16 19 34.627	+21 27 28.08	16.06	17.75	173.73	9.96	2003.317	-12.4	51.0	-7.3	50.9	16196+2128
784	16 19 59.172	+29 26 44.32	17.85	18.89	86.20	22.15	2003.194	-43.1	22.8	-39.1	23.2	
785	16 21 24.919	+16 59 07.35	16.89	18.12	23.20	21.07	2004.447	4.8	-43.4	4.6	-46.8	16214+1659
786	16 23 28.454	+34 03 49.67	16.01	18.19	218.06	7.90	2003.324	-36.5	-29.6	-36.1	-32.1	
787	16 25 22.338	+13 52 49.02	17.82	19.36	54.52	12.27	2004.453	-51.6	13.5	-54.8	7.3	16254+1353
788	16 25 32.352	+27 04 54.36	17.46	18.02	281.08	18.76	2003.330	-38.9	-40.9	-42.2	-40.2	
789	16 26 18.066	+20 04 45.71	15.62	16.36	3.33	15.67	2003.481	-19.2	-55.4	-16.0	-57.8	16263+2005
790	16 27 08.304	+54 57 13.35	18.81	19.62	263.23	7.82	2004.455	21.5	-41.3	19.9	-39.3	
791	16 27 31.392	-06 08 52.63	16.94	18.27	338.89	14.62	2005.427	-40.8	-2.7	-47.0	-5.2	
792	16 27 50.606	-04 12 47.80	15.13	16.95	170.53	17.54	2005.425	-44.6	-11.4	-39.7	-8.6	
793	16 28 08.009	+38 25 24.09	14.58	18.81	175.99	17.39	2002.438	-35.0	35.8	-36.2	38.8	
794	16 29 29.766	+26 31 54.07	17.01	17.30	206.19	18.19	2003.330	-2.1	-57.8	-4.6	-56.0	16295+2632
795	16 30 34.154	+08 13 50.16	18.02	19.56	100.39	9.20	2003.472	3.5	-46.7	-1.1	-44.7	
796	16 30 47.196	-00 35 15.45	17.18	19.00	301.02	25.96	2001.411	-13.3	-49.7	-9.0	-53.2	
797	16 30 55.074	+32 19 18.27	16.56	17.39	242.59	29.78	2003.324	6.7	-44.9	12.2	-46.2	
798	16 31 09.250	+16 01 10.59	16.17	18.19	63.46	11.66	2004.447	33.9	43.4	36.1	43.5	16311+1601
799	16 31 53.565	+54 34 47.81	15.90	17.26	117.87	12.67	2004.455	-28.0	-34.2	-30.1	-35.9	
800	16 32 12.513	+15 42 03.81	16.28	16.94	335.68	27.22	2004.368	-5.8	-57.0	-6.7	-54.1	16322+1542

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG A	MAG B	PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL						PMRA	PMDE	PMRA	PMDE	
801	16 32 21.388	+43 43 44.88	16.71	18.13	282.61	26.90	2001.290	25.4	-45.1	20.0	-45.8	
802	16 32 40.282	+30 16 29.69	15.94	18.52	158.70	11.22	2003.324	-46.7	-26.9	-45.0	-31.5	
803	16 32 42.568	+11 15 02.50	14.40	16.32	128.33	16.32	2004.453	17.2	-38.6	17.3	-38.6	
804	16 32 41.805	+37 52 24.86	19.18	19.23	217.92	12.89	2002.438	-44.7	19.2	-40.6	24.7	
805	16 33 50.620	+56 26 03.50	15.23	15.94	131.17	16.86	2004.455	32.7	-36.0	32.8	-32.7	
806	16 34 41.648	+11 46 24.09	17.78	19.57	173.22	10.76	2005.362	9.6	-38.8	6.4	-40.7	
807	16 35 32.602	+54 03 15.89	17.00	17.55	57.57	9.58	2005.416	-25.5	46.7	-26.7	46.2	16355+5403
808	16 35 57.570	+11 29 50.28	16.38	19.44	268.22	28.25	2004.453	31.9	-27.4	31.4	-34.7	
809	16 38 23.932	+32 20 41.83	15.17	15.45	68.57	13.30	2003.180	-2.1	-45.0	-4.0	-44.7	16384+3221
810	16 39 29.600	+22 17 10.92	18.08	18.19	348.20	12.23	2003.472	-13.1	-57.4	-18.5	-52.3	
811	16 39 53.307	+42 26 15.44	16.72	18.24	83.50	29.89	2001.290	-10.2	45.3	-12.5	47.1	16398+4226
812	16 40 26.232	+05 23 45.30	15.10	19.34	40.10	9.63	2003.314	-4.9	-44.9	-0.9	-41.5	
813	16 42 54.279	+40 27 33.78	15.06	20.30	56.23	22.88	2001.395	-12.8	-52.6	-9.8	-48.2	
814	16 44 34.946	+30 22 44.95	17.29	18.39	254.11	17.44	2002.353	-7.4	44.0	-4.7	45.8	
815	16 46 17.702	-07 02 27.93	16.29	17.90	27.12	11.73	2005.433	-37.9	-36.4	-34.2	-33.3	
816	16 46 20.893	+44 20 00.15	16.28	18.04	100.16	19.33	2000.338	-3.2	45.5	-3.1	42.2	16463+4420
817	16 48 51.501	+46 18 48.80	17.00	18.21	201.70	12.29	2003.481	-35.6	-35.8	-36.9	-40.1	
818	16 50 07.990	+22 55 47.13	18.76	19.75	260.44	16.04	2003.194	-50.5	-12.2	-59.2	-8.1	
819	16 50 10.314	+16 23 58.68	17.98	18.50	2.84	9.76	2003.481	-22.8	-41.6	-24.0	-45.3	
820	16 50 34.970	-07 32 00.70	16.47	18.49	108.60	21.06	2005.430	1.1	-47.0	-5.7	-40.7	
821	16 52 19.252	+46 55 42.43	17.96	18.34	221.93	10.50	2003.481	36.3	-18.5	38.1	-15.5	
822	16 52 24.055	+18 47 07.83	17.82	17.99	64.34	19.39	2003.475	15.4	-44.0	10.9	-40.6	
823	16 52 56.188	+24 45 44.18	17.40	19.34	104.86	18.37	2003.407	8.6	-58.0	5.5	-59.5	
824	16 53 27.364	+48 47 48.34	15.84	15.95	65.45	28.12	2004.455	-45.1	15.6	-44.9	16.0	
825	16 54 08.158	+22 19 54.61	16.45	16.89	320.15	9.14	2003.194	-6.3	-40.3	-7.2	-39.8	
826	16 54 22.595	+46 49 42.32	17.01	18.42	191.45	18.85	2004.455	-11.8	40.5	-11.7	46.4	
827	16 54 29.526	+40 49 39.10	16.81	19.21	181.66	7.34	2001.225	-36.2	33.7	-31.7	33.1	
828	16 54 29.644	+45 11 07.46	17.30	19.08	194.02	12.65	2003.481	-39.2	16.8	-42.2	16.8	
829	16 55 05.029	+37 45 46.44	17.18	18.73	220.49	16.31	2001.395	-28.5	45.1	-25.9	51.8	16551+3746
830	16 55 47.532	+27 15 31.87	16.99	18.71	232.35	17.90	2002.350	25.3	-33.3	22.8	-34.0	
831	16 57 17.327	+73 13 52.03	16.07	17.68	358.40	11.80	2001.720	-49.5	19.5	-46.4	18.2	16573+7314
832	16 58 12.120	+21 08 36.16	17.31	19.64	274.13	11.06	2003.330	-16.5	-43.5	-19.8	-39.6	
833	16 59 26.286	+39 38 27.84	17.23	18.59	276.39	7.40	2006.393	-11.5	-47.9	-12.5	-42.4	
834	17 06 31.172	+31 25 47.06	18.55	19.03	171.67	18.70	2001.392	-41.9	-1.0	-40.8	1.2	
835	17 09 38.422	+10 12 44.28	16.93	17.83	4.22	21.61	2005.425	7.3	-45.3	9.1	-42.7	
836	17 15 38.323	+35 46 43.59	15.18	16.12	36.89	8.75	2001.225	-40.8	31.0	-36.4	36.0	17156+3547
837	17 15 54.879	+57 31 36.08	20.44	20.56	190.69	29.91	2000.259	14.9	-44.3	11.9	-47.1	
838	17 18 51.848	+72 40 55.07	16.15	17.18	64.71	12.28	2001.720	40.3	17.2	44.7	15.2	
839	17 20 19.435	+40 01 32.70	16.93	17.45	195.94	13.21	2005.365	-12.0	51.8	-15.1	49.7	17203+4001
840	17 21 07.174	+00 34 01.72	15.64	17.12	77.56	26.88	2001.411	3.1	-46.8	0.7	-44.7	
841	17 22 30.469	+29 28 27.87	16.77	18.33	12.01	19.02	2000.261	-24.7	37.3	-24.3	33.2	17225+2928
842	17 26 12.325	+36 04 01.51	15.03	16.23	98.99	11.69	2005.365	49.2	25.1	50.6	24.2	17262+3604
843	17 26 51.583	+43 41 00.27	16.53	19.59	190.90	21.21	2005.435	11.5	-47.4	9.9	-44.7	
844	17 41 32.747	+67 47 04.45	17.14	20.78	151.69	19.36	2001.457	0.1	44.7	1.0	45.4	
845	17 42 23.837	+46 57 17.71	16.50	17.22	314.81	13.19	2002.760	-8.5	-40.1	-7.7	-41.2	17424+4657
846	17 43 41.118	+58 42 10.51	16.47	16.72	188.68	13.85	2001.457	-14.0	40.3	-13.7	40.1	17437+5842
847	17 47 19.953	+52 18 12.39	17.73	20.19	178.45	7.97	2001.720	-17.0	36.6	-23.2	36.6	
848	17 50 39.030	+45 46 55.44	17.96	18.20	25.28	22.15	2002.760	15.7	41.0	18.0	41.3	17506+4547
849	17 51 44.628	+61 18 22.52	14.98	18.98	248.26	26.98	2001.457	-17.9	37.1	-21.4	39.7	
850	17 52 42.849	+65 39 40.44	14.94	16.18	255.73	9.53	2006.394	-18.9	39.6	-19.0	37.4	17527+6540

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG	MAG	PA	SEP	DATE	PRIMARY		SECONDARY		WDS
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	NAME
851	17 53 21.717	+64 32 16.48	14.57	17.63	314.84	12.48	2006.331	-28.8	29.7	-28.2	30.6	
852	17 53 45.210	+39 51 39.80	16.00	19.65	358.85	13.92	2002.760	-46.7	4.2	-42.7	-2.3	17538+3951
853	17 55 35.561	+54 57 52.55	16.64	17.72	358.96	11.84	2001.458	-40.8	9.1	-42.2	14.9	
854	18 01 57.541	+65 07 58.95	15.06	19.29	252.50	14.68	2006.394	18.7	-40.1	19.3	-41.4	
855	18 09 43.394	+43 33 47.17	16.06	16.77	206.66	28.63	2005.444	33.6	25.0	33.4	22.3	
856	18 25 20.204	+63 49 28.47	17.07	17.62	312.69	9.63	2006.394	-2.4	45.9	-0.2	44.6	18254+6349
857	18 27 04.744	+77 26 00.14	17.23	18.06	194.50	15.64	2003.740	1.1	43.6	4.3	50.3	
858	18 40 55.599	+42 04 00.04	19.30	19.37	292.65	17.36	2005.435	27.7	51.8	26.2	52.6	18409+4204
859	18 49 47.714	+41 45 36.91	14.73	16.30	53.24	22.04	2005.444	-9.4	54.5	-12.9	53.6	18498+4145
860	19 14 48.269	+79 28 38.19	16.77	17.29	144.67	13.97	2003.738	42.7	14.4	40.0	15.5	19148+7929
861	19 24 35.695	+36 22 33.07	14.67	16.24	243.26	11.64	2006.402	42.1	-23.3	40.6	-23.6	19246+3623
862	20 28 15.585	-20 48 00.60	15.83	18.99	313.27	29.21	2004.699	31.6	-25.6	38.0	-31.0	
863	20 28 46.277	+15 14 15.45	17.91	17.97	217.71	11.70	2004.783	9.5	-54.8	10.5	-49.0	20288+1514
864	20 36 34.339	-06 21 52.91	16.89	17.88	294.93	23.87	2000.740	-16.8	-50.6	-16.4	-47.4	
865	20 41 39.042	-06 46 21.44	16.63	19.18	20.28	20.31	2000.674	-33.6	-26.5	-34.4	-23.0	
866	20 48 04.424	+00 53 26.42	17.10	17.49	323.76	12.25	2001.720	46.9	-29.9	47.2	-28.7	
867	20 49 57.678	+14 31 31.33	15.61	18.41	81.69	16.71	2004.712	54.2	14.3	56.3	16.1	
868	20 50 45.997	+17 02 18.75	15.71	16.22	71.93	20.31	2004.783	41.6	21.6	42.9	22.6	
869	20 52 20.068	-03 24 29.46	16.17	19.30	283.74	10.77	2002.678	-55.2	-19.6	-51.0	-25.2	
870	20 56 23.391	+04 22 19.86	17.68	18.23	125.06	26.35	2005.742	51.6	-5.3	53.0	-6.8	
871	20 58 18.403	-10 50 12.03	15.39	17.28	53.96	18.04	2004.699	-17.8	-36.6	-16.4	-40.5	
872	20 58 29.028	+25 47 47.77	14.75	18.18	54.52	26.38	2006.402	35.9	43.9	30.0	37.8	
873	20 58 59.463	-13 10 47.05	16.25	18.17	16.07	7.73	2004.699	28.6	-28.3	32.8	-31.1	
874	21 00 29.173	-06 41 42.27	14.89	16.04	126.66	11.06	2000.674	46.9	-2.5	51.6	-3.8	
875	21 01 30.577	-01 15 49.95	15.20	16.12	201.70	17.66	2008.830	-6.9	-43.2	-9.9	-43.0	
876	21 01 46.026	+07 56 43.76	16.37	18.19	127.88	28.30	2008.830	35.3	21.8	37.7	23.6	
877	21 01 58.366	+04 36 18.81	16.95	17.77	312.43	11.42	2005.742	-21.9	34.5	-17.8	37.3	
878	21 03 21.071	-00 49 51.61	17.25	18.47	108.68	27.04	2001.720	-33.0	-44.3	-32.7	-45.9	
879	21 05 09.956	+15 59 35.19	14.88	18.84	206.74	13.56	2004.712	-45.0	-38.3	-46.3	-36.8	21052+1600
880	21 05 46.726	-01 11 32.69	15.82	16.83	354.11	12.91	2001.720	46.0	12.1	50.1	7.2	
881	21 07 22.595	-10 56 53.82	19.23	19.68	309.47	11.13	2004.699	48.8	12.5	53.7	4.8	
882	21 08 22.171	+16 05 26.24	15.91	19.14	204.10	19.81	2004.712	44.9	12.2	42.4	18.8	
883	21 09 32.450	-04 36 40.62	16.22	18.00	307.72	20.15	2009.774	-33.7	-33.2	-35.8	-32.9	
884	21 14 41.674	+09 06 38.78	17.45	18.45	2.74	29.10	2008.827	42.6	-13.0	40.3	-14.0	
885	21 16 07.895	+08 50 51.73	14.70	19.73	32.80	8.64	2008.830	56.3	11.1	52.8	16.6	
886	21 16 25.970	+11 27 33.70	18.30	19.51	184.86	7.00	2001.714	-17.8	-53.7	-17.1	-49.9	
887	21 19 39.065	+02 55 59.34	16.38	17.38	85.47	21.03	2008.816	44.9	8.3	44.3	8.9	
888	21 22 07.593	-05 35 38.22	15.42	16.15	156.26	11.21	2004.699	-12.3	-40.0	-15.8	-42.8	
889	21 22 34.317	+09 00 03.70	18.25	19.56	46.74	17.83	2008.827	48.4	-18.3	52.2	-13.4	
890	21 22 57.315	-04 22 56.08	18.56	19.93	104.98	8.48	2009.774	-39.0	-30.5	-35.1	-26.1	
891	21 23 22.714	-05 45 33.26	18.54	18.87	134.66	15.39	2009.788	46.9	-21.3	51.3	-19.5	
892	21 24 11.503	+04 21 53.00	18.79	19.18	249.82	13.60	2008.816	-27.1	-34.8	-29.8	-36.9	
893	21 24 39.974	-17 37 01.48	17.88	18.26	112.02	8.99	2008.731	-31.3	-32.7	-33.1	-32.7	
894	21 24 49.930	+23 20 52.04	18.69	19.07	281.05	11.98	2008.732	-27.4	-41.3	-31.0	-38.1	
895	21 25 54.752	+20 16 51.57	14.67	14.91	143.14	28.80	2007.448	-24.5	-33.2	-23.1	-32.8	
896	21 26 18.516	+28 14 03.31	16.25	19.19	342.89	15.95	2009.879	50.3	-6.5	46.1	-2.3	
897	21 27 09.552	+07 32 29.63	14.82	16.09	326.93	11.82	2008.827	6.9	-44.4	6.3	-43.0	21272+0732
898	21 27 40.153	+04 54 57.62	16.22	19.66	250.91	8.15	2008.816	-38.8	-29.2	-43.1	-32.6	
899	21 28 59.880	+18 00 02.58	18.01	19.53	185.56	26.76	2007.448	51.0	19.6	48.8	23.6	
900	21 30 30.309	-03 55 32.20	17.19	18.78	29.94	16.05	2009.774	24.3	-34.0	29.1	-38.7	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG A	MAG B	PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL						PMRA	PMDE	PMRA	PMDE	
901	21 31 52.181	+09 07 39.77	19.80	20.43	347.28	29.91	2008.830	19.3	-44.0	14.4	-45.4	
902	21 33 51.983	+11 38 36.10	18.71	19.20	155.30	22.96	2000.740	-22.8	-38.2	-29.1	-43.8	
903	21 33 53.831	+16 42 01.35	16.29	19.09	340.47	15.51	2006.402	-20.0	-50.3	-21.8	-52.1	
904	21 35 15.252	+02 02 21.68	16.55	19.12	83.34	13.80	2008.756	-39.1	-36.2	-42.1	-41.8	
905	21 35 55.677	+11 04 55.05	16.09	17.84	120.28	9.42	2001.714	-40.3	-37.1	-38.6	-41.6	
906	21 37 15.773	+22 29 33.85	18.65	19.67	174.13	10.45	2009.796	28.7	-48.5	30.5	-48.7	
907	21 39 28.865	+05 34 24.62	16.93	19.29	105.15	24.11	2005.736	-12.4	-39.9	-19.6	-39.1	
908	21 39 49.173	+23 16 47.92	18.24	19.33	39.41	17.09	2009.796	-40.4	-24.5	-43.8	-26.8	
909	21 40 33.765	-00 22 30.65	17.32	18.56	12.25	29.77	2001.720	38.1	17.1	43.0	13.7	
910	21 42 06.629	-02 03 39.46	17.61	19.43	1.88	27.47	2008.830	-5.4	-46.2	-8.6	-44.7	
911	21 42 28.010	+03 41 52.03	17.66	19.43	237.93	9.74	2008.816	28.8	-28.5	29.4	-32.5	
912	21 44 46.516	-01 29 15.31	14.14	14.23	175.77	16.46	2008.882	36.4	-20.5	36.1	-20.8	
913	21 46 12.124	+04 22 46.66	17.94	18.62	268.37	8.98	2008.825	-40.1	-23.2	-37.9	-27.9	
914	21 46 54.076	+29 06 57.18	14.66	15.76	201.11	23.54	2009.879	-29.7	-30.6	-31.8	-31.4	
915	21 47 35.126	+04 31 15.77	17.96	18.73	70.65	8.76	2008.825	45.5	-6.1	43.1	-0.3	
916	21 47 39.086	+23 29 37.47	15.59	18.23	296.60	24.33	2009.794	44.6	3.4	42.2	6.5	
917	21 47 41.715	+27 40 24.92	15.65	19.05	225.25	9.93	2009.878	-13.4	-45.0	-17.4	-45.4	
918	21 53 21.743	+02 29 41.18	19.57	19.95	304.54	13.17	2008.756	-50.2	-5.2	-56.7	-8.4	
919	21 54 44.495	+26 43 04.19	16.38	17.66	251.74	21.07	2009.876	-39.3	-24.0	-41.6	-27.2	
920	21 56 31.987	-02 07 34.39	16.91	19.41	77.79	8.08	2008.830	34.6	26.4	37.9	22.8	
921	21 58 17.682	+15 21 11.06	18.12	19.51	113.05	9.80	2009.739	-35.6	-24.9	-30.8	-29.2	
922	22 00 38.912	+03 24 09.04	17.64	19.00	157.08	8.17	2008.825	44.9	-35.9	47.4	-34.8	
923	22 03 19.245	-03 43 39.42	15.91	17.52	5.15	12.63	2009.737	-48.3	-8.9	-49.3	-10.8	
924	22 04 44.238	+43 12 07.22	16.62	18.92	29.07	10.38	2006.394	38.9	27.8	36.4	24.8	
925	22 05 25.765	+43 54 13.78	16.81	17.39	220.59	12.01	2006.394	48.9	9.8	45.4	13.1	
926	22 06 43.618	+13 25 42.59	16.56	18.35	100.77	29.38	2000.740	-9.5	-45.0	-13.4	-46.3	22067+1326
927	22 07 27.633	-07 48 32.95	15.18	16.50	36.02	15.24	2004.707	55.5	-11.3	52.7	-12.8	22075-0748
928	22 07 57.927	+17 09 14.66	16.45	16.88	165.36	15.13	2009.791	-33.9	-42.2	-34.4	-44.5	
929	22 08 23.004	-00 00 27.05	16.77	17.43	50.26	9.86	2003.811	26.0	-34.5	28.7	-29.8	22084-0001
930	22 08 24.186	+17 21 00.96	17.26	17.61	225.34	10.49	2009.789	1.9	47.7	0.5	43.4	
931	22 11 08.331	+05 08 14.67	14.78	19.34	246.02	24.48	2005.742	44.4	-23.4	48.2	-27.5	
932	22 15 18.268	+00 14 50.35	18.20	18.71	197.64	11.22	2003.811	-36.8	-34.7	-32.1	-35.3	22153+0015
933	22 15 24.100	+23 40 28.48	15.25	19.46	224.24	11.61	2009.794	-8.3	42.1	-7.0	45.7	
934	22 15 33.364	+40 28 19.70	16.74	18.16	331.80	26.71	2006.708	39.2	11.2	38.1	14.4	
935	22 17 10.877	+20 06 00.39	18.46	19.56	82.83	13.47	2009.794	-25.4	-42.3	-22.5	-47.8	
936	22 17 17.174	+06 12 08.30	16.95	17.22	341.19	14.32	2005.742	-12.0	-42.5	-10.5	-44.5	
937	22 18 29.069	+02 28 47.70	15.71	17.21	299.97	14.59	2008.753	40.1	-33.5	40.9	-35.9	
938	22 19 08.377	+04 01 12.90	17.99	18.99	121.93	7.55	2008.825	-0.7	-43.3	4.2	-41.2	
939	22 20 50.446	+26 33 29.24	15.89	16.64	69.78	14.30	2009.881	17.0	-42.2	18.5	-41.7	
940	22 21 21.759	+09 20 23.56	14.62	15.61	134.71	12.04	2008.836	-23.2	-44.8	-20.9	-45.4	
941	22 21 37.425	+28 55 59.33	13.59	16.42	201.64	15.11	2009.876	-12.6	-44.9	-12.3	-46.1	
942	22 22 39.308	+17 17 23.02	17.58	17.89	19.74	8.08	2009.791	-33.2	-35.4	-31.6	-37.3	
943	22 24 43.575	+03 55 56.59	17.90	18.49	113.25	27.96	2008.816	-46.8	-17.9	-42.9	-22.1	
944	22 25 36.840	+19 37 13.74	16.85	17.72	270.28	18.83	2009.794	1.4	-44.8	1.3	-45.4	
945	22 30 59.617	-07 50 17.01	17.61	19.45	139.73	7.42	2009.788	-44.8	-13.9	-44.2	-13.6	
946	22 32 07.260	+31 01 33.20	14.39	15.17	236.64	25.24	2009.879	-9.8	-51.1	-12.3	-53.6	
947	22 34 01.993	+08 01 43.92	14.37	15.64	357.64	12.43	2008.879	1.0	-50.8	3.5	-51.8	
948	22 36 53.409	+28 34 17.07	16.27	17.51	244.97	12.01	2009.796	-7.4	-50.1	-8.9	-48.5	
949	22 41 57.964	-01 17 57.75	16.53	16.53	183.06	15.66	2009.709	-41.7	-26.5	-37.3	-23.5	
950	22 41 58.931	+22 03 53.54	16.85	17.92	325.96	10.70	2004.784	16.9	-43.1	16.8	-46.9	22420+2204

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(continued). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG	MAG	PA	SEP	DATE	PRIMARY		SECONDARY		WDS
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	NAME
951	22 43 35.903	+16 54 27.59	17.34	19.47	355.48	9.32	2004.699	-21.7	-37.5	-18.1	-41.0	
952	22 44 04.810	+16 40 55.74	17.23	17.78	317.38	29.62	2009.739	19.7	-42.9	20.6	-39.9	
953	22 44 19.973	+23 18 13.63	16.52	16.73	340.27	9.73	2004.784	35.6	-44.2	30.9	-46.2	22443+2318
954	22 47 08.686	+13 10 14.31	17.98	18.91	182.68	22.97	2001.644	47.5	-13.2	52.0	-10.7	22471+1311
955	22 47 28.979	-05 01 30.69	15.12	17.94	82.70	12.43	2009.737	45.9	-32.2	46.1	-33.6	
956	22 48 42.866	+09 25 26.93	16.53	17.93	243.90	12.18	2008.836	44.4	-6.7	44.1	-7.1	
957	22 49 25.254	+15 50 49.69	15.59	18.90	46.10	11.51	2009.739	20.8	52.5	23.0	54.5	
958	22 50 24.015	+27 47 25.25	15.27	15.67	357.19	16.91	2009.797	-24.2	-41.6	-22.8	-39.8	22504+2747
959	22 51 00.092	-05 04 55.25	17.15	17.86	206.01	10.81	2009.737	-28.1	-46.2	-23.9	-44.2	
960	22 52 02.026	-06 54 36.24	17.34	18.61	17.91	14.45	2009.788	42.3	-3.0	41.8	-0.5	
961	22 53 18.352	+31 15 07.08	15.36	19.73	74.16	24.44	2006.708	41.2	6.1	41.8	-0.5	
962	22 53 21.844	+18 34 59.76	15.12	18.49	207.99	12.48	2009.789	32.9	-39.3	36.1	-36.9	
963	22 54 59.868	+10 06 03.54	16.42	17.13	197.17	9.28	2008.879	44.2	-5.6	43.1	-5.8	
964	22 55 19.429	-10 13 39.55	18.35	19.62	26.04	12.09	2000.674	50.6	-0.9	45.9	6.5	
965	22 56 21.031	+28 13 39.96	18.53	20.06	305.06	17.86	2009.881	37.0	22.3	38.4	25.6	
966	22 59 35.407	+19 12 52.60	18.11	19.53	91.08	9.16	2009.789	-21.1	-46.8	-24.3	-47.5	
967	22 59 44.236	-03 48 12.07	17.84	18.89	27.28	8.92	2009.742	32.2	-30.5	34.5	-31.1	
968	23 00 57.754	-08 34 08.02	15.47	16.81	317.81	11.43	2001.717	13.4	46.9	13.0	49.4	
969	23 00 57.217	+25 10 50.85	16.46	17.42	213.80	27.65	2006.714	9.0	-45.9	6.9	-45.1	
970	23 01 29.707	-07 31 17.10	16.28	16.66	279.37	28.98	2009.791	-32.8	-41.6	-34.7	-39.1	
971	23 02 28.129	+07 33 08.68	18.56	18.62	268.02	13.14	2005.698	42.0	10.8	43.7	6.2	23025+0733
972	23 03 41.984	-08 45 28.66	18.69	18.97	117.27	9.18	2000.879	-49.3	-26.2	-42.1	-27.3	
973	23 03 54.540	+02 59 25.34	18.78	19.55	99.02	7.24	2008.753	-33.3	-27.6	-27.2	-31.8	
974	23 04 18.652	+16 21 45.67	16.18	16.71	182.84	10.65	2009.046	43.4	9.7	41.1	9.9	
975	23 05 36.345	+29 06 19.98	15.51	19.17	273.91	14.43	2009.881	43.7	24.9	45.8	27.0	
976	23 06 49.400	-02 39 35.05	18.01	18.06	201.94	9.00	2009.709	9.6	-54.9	7.4	-55.3	
977	23 07 43.322	+29 08 07.36	16.51	17.39	131.59	8.63	2009.881	35.8	-24.5	38.4	-22.6	
978	23 08 28.583	+25 20 08.48	15.31	16.23	282.21	18.01	2006.708	-18.8	-37.3	-17.9	-39.7	23085+2520
979	23 10 07.264	+02 36 59.49	16.07	19.31	138.76	29.75	2008.753	42.3	-17.8	43.6	-14.8	
980	23 10 16.841	+10 08 18.02	15.58	16.62	118.18	25.52	2008.836	-31.8	-36.8	-29.0	-38.0	
981	23 10 20.469	+11 51 40.31	15.24	15.68	5.24	22.73	2008.828	45.8	2.9	44.7	1.9	
982	23 10 37.203	+25 57 40.87	17.03	17.87	1.37	7.28	2009.794	38.9	16.1	38.1	17.1	
983	23 10 57.415	+23 32 29.82	17.76	18.61	246.04	22.22	2006.708	41.2	21.0	41.1	16.5	
984	23 11 23.535	+08 02 52.23	17.39	17.44	274.39	8.79	2005.698	-5.7	-47.8	-9.6	-45.0	23114+0803
985	23 12 16.118	+23 18 56.65	15.82	18.22	127.27	11.45	2006.714	0.0	-44.1	1.0	-44.4	23123+2319
986	23 12 44.192	+25 12 40.91	18.22	19.06	38.75	8.45	2008.732	40.0	3.6	40.2	0.5	
987	23 13 24.605	-10 12 30.56	15.02	17.57	333.80	22.49	2000.879	-2.5	-40.4	-3.2	-42.2	
988	23 14 43.136	-20 25 38.99	16.79	19.55	62.68	12.72	2004.953	7.8	-47.5	5.3	-53.4	
989	23 14 42.370	-01 00 26.04	17.47	19.00	266.30	28.33	2001.789	36.8	15.8	42.0	22.9	
990	23 14 52.497	+24 45 06.89	18.70	19.62	36.30	7.89	2004.699	47.0	3.2	48.4	2.6	
991	23 15 26.212	+32 06 00.24	16.44	17.97	44.26	12.63	2009.796	50.2	6.8	49.8	-0.3	
992	23 17 32.473	+16 06 49.05	16.26	16.46	66.07	10.77	2009.046	-9.3	-48.9	-7.9	-46.2	23175+1607
993	23 18 38.920	+13 54 51.33	17.85	18.51	351.45	7.52	2000.740	30.6	-28.3	35.0	-25.0	
994	23 20 05.331	+29 20 14.40	17.00	18.68	26.74	27.26	2009.797	-38.6	-24.3	-37.0	-26.6	
995	23 21 24.732	+11 45 16.55	18.50	19.31	117.60	29.08	2008.839	41.3	20.9	39.5	19.3	
996	23 23 06.793	+17 58 24.73	16.87	18.61	186.07	20.47	2006.708	51.8	9.0	56.0	14.5	
997	23 23 17.174	-00 16 28.08	15.47	17.18	97.01	28.59	2003.885	45.9	-13.1	48.4	-15.9	23233-0016
998	23 23 22.132	+25 05 48.57	17.18	19.66	220.67	10.89	2008.732	47.8	-7.0	42.3	-13.9	
999	23 26 02.748	+16 57 45.53	17.52	18.46	351.98	12.90	2008.754	3.3	-48.8	-0.6	-49.2	23260+1658
1000	23 28 30.707	+50 51 52.60	17.63	17.78	250.54	11.85	2003.738	39.3	-21.7	39.0	-26.8	

Table 1 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2a(conclusion). Relative positions and proper motions of the binary stars.

#	PRIMARY		MAG		PA	SEP	DATE	PRIMARY		SECONDARY		WDS NAME
	RA	DECL	A	B				PMRA	PMDE	PMRA	PMDE	
1001	23 29 14.947	+15 56 11.21	15.89	18.88	209.13	8.73	2006.708	43.5	25.1	43.7	22.5	23293+1556
1002	23 29 48.441	-19 32 23.56	19.38	19.50	234.63	13.05	2004.953	41.4	-8.7	40.1	-0.1	
1003	23 29 57.819	+03 42 49.76	15.71	17.86	201.84	15.23	2008.879	49.0	19.4	53.3	21.0	
1004	23 30 27.735	+20 38 17.44	16.72	19.77	278.70	9.63	2009.789	47.7	-13.0	41.4	-14.6	
1005	23 31 07.495	+28 50 41.92	15.44	15.97	187.54	12.18	2004.699	-16.6	-49.2	-18.9	-48.8	
1006	23 32 25.311	+18 10 37.55	17.89	18.26	230.83	20.56	2009.046	4.8	-47.8	7.1	-50.7	
1007	23 33 05.106	+30 08 23.46	15.62	16.79	327.59	8.82	2009.881	51.9	-18.7	48.4	-16.5	
1008	23 33 09.641	-01 22 36.33	18.35	19.22	162.46	11.54	2008.830	-10.0	-43.2	-16.0	-44.1	
1009	23 33 42.716	+19 44 17.74	16.46	17.34	168.67	22.36	2009.057	51.4	-10.8	51.9	-6.3	
1010	23 34 34.678	-09 22 08.44	15.21	15.50	270.29	20.21	2000.737	48.7	-2.8	49.2	0.0	23346-0922
1011	23 35 53.124	-10 28 14.84	13.93	17.03	307.25	13.42	2000.680	27.1	-38.5	22.2	-40.5	
1012	23 36 22.807	-02 36 34.59	16.15	16.58	268.33	12.26	2008.830	46.5	17.7	49.6	19.3	
1013	23 39 15.483	+04 50 36.34	17.06	17.26	94.09	14.07	2008.816	-40.7	-18.3	-40.5	-19.2	
1014	23 40 08.085	-01 33 15.14	14.88	17.89	98.22	9.20	2009.709	25.1	-35.1	28.9	-39.0	
1015	23 41 31.831	-05 38 44.26	15.95	17.16	147.53	13.37	2009.742	46.0	-6.6	46.5	-5.7	
1016	23 42 30.491	+12 04 08.37	18.68	19.00	43.35	9.56	2008.839	-13.8	-45.8	-13.1	-47.2	
1017	23 42 34.779	+01 50 27.94	17.21	19.33	142.50	15.60	2008.754	-1.5	-54.7	2.0	-55.0	
1018	23 42 48.116	-03 57 25.96	14.95	19.76	142.74	17.13	2009.742	44.2	-22.9	46.0	-25.3	
1019	23 43 02.220	-05 45 20.66	14.07	15.32	44.82	12.29	2009.742	-34.6	-37.4	-33.1	-38.5	
1020	23 43 48.847	+18 53 47.66	15.23	17.29	315.89	11.72	2009.789	-41.7	-37.2	-44.6	-38.4	
1021	23 43 52.375	+18 52 54.62	18.06	19.75	239.77	8.72	2009.789	57.0	13.0	52.6	11.7	
1022	23 44 01.577	+13 05 48.96	16.81	19.70	206.12	18.41	2008.828	18.1	-43.7	14.5	-43.4	
1023	23 44 41.865	-20 27 04.52	15.89	16.45	179.06	14.41	2004.953	-28.2	-39.1	-27.7	-38.9	
1024	23 45 28.559	+16 05 50.22	18.53	18.76	54.48	10.14	2009.046	19.2	-45.7	16.2	-42.6	
1025	23 45 52.537	-03 47 24.12	16.35	18.96	77.99	20.25	2008.888	-39.7	-37.7	-42.0	-34.6	
1026	23 45 56.571	+13 17 48.22	14.69	19.33	319.25	8.88	2008.839	-27.6	-45.6	-24.9	-40.8	
1027	23 46 31.397	+00 35 47.66	16.79	18.85	90.47	7.61	2003.741	54.2	-14.7	50.0	-11.5	
1028	23 46 35.780	+22 35 21.69	17.96	19.56	321.56	12.36	2009.049	-21.1	-35.2	-23.4	-35.2	
1029	23 46 39.181	+05 14 12.16	16.33	16.94	345.33	15.40	2006.709	50.4	-7.2	51.9	-5.7	
1030	23 46 54.744	+39 45 33.61	15.71	18.65	153.91	14.82	2003.738	-33.7	-36.9	-32.7	-40.2	
1031	23 46 53.390	-20 07 09.57	18.73	20.07	307.27	22.57	2004.953	48.4	-27.2	40.4	-19.6	
1032	23 47 04.190	-18 49 22.76	17.40	19.32	143.51	24.69	2004.953	56.8	-4.9	56.6	-6.2	
1033	23 47 29.919	+29 31 28.12	15.33	16.54	356.55	14.96	2009.797	44.0	-22.2	43.2	-25.2	
1034	23 49 49.953	-10 37 20.90	18.68	18.77	319.98	20.05	2000.680	1.5	-51.4	-4.1	-49.6	23498-1038
1035	23 49 52.626	+36 10 48.94	18.76	19.60	18.17	7.01	2003.738	40.1	-16.3	39.7	-17.2	
1036	23 51 25.492	+25 50 30.31	18.85	19.59	331.34	7.78	2004.713	35.2	20.0	35.7	25.8	
1037	23 53 17.133	+02 08 20.87	17.01	17.40	0.95	15.67	2008.754	45.9	5.2	45.5	5.1	23533+0208
1038	23 53 54.935	+06 12 28.22	14.98	17.40	109.43	12.30	2005.698	-9.9	-51.4	-5.5	-53.2	
1039	23 54 13.121	+02 01 54.34	16.11	16.56	153.97	20.70	2008.754	44.4	0.6	44.6	2.2	23542+0202
1040	23 54 52.324	-04 15 33.99	18.61	20.35	189.33	9.14	2008.888	32.8	-27.7	36.7	-24.5	
1041	23 55 10.060	-04 34 51.33	17.27	18.37	220.20	21.90	2008.888	-30.2	-36.2	-33.7	-37.3	
1042	23 58 41.294	+15 12 44.47	18.21	19.09	127.17	11.99	2000.740	41.4	15.9	39.2	14.7	23587+1513

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b. Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
1	00 00 46.190	+12 58 57.49		1.03	0.53	1.05	0.53	2	2
2	00 03 02.369	+03 41 25.00		1.37	0.71	1.29	0.67	4	4
3	00 03 28.211	+32 41 48.91		1.05	0.53	1.94	1.00	2	6
4	00 06 33.842	-03 55 35.74	00066-0356	1.01	0.55	1.22	0.67	2	3
5	00 07 25.058	+22 19 09.39		0.95	0.49	1.56	0.80	2	5
6	00 07 41.881	-10 20 19.92	00077-1020	0.91	0.47	1.07	0.56	2	3
7	00 08 32.079	-07 59 42.86	00085-0800	0.94	0.47	1.13	0.61	2	3
8	00 10 54.234	-03 37 53.31		1.33	0.70	1.43	0.77	4	4
9	00 11 57.848	-20 12 35.37		0.98	0.60	1.24	0.70	2	4
10	00 12 04.265	+02 03 06.73		0.66	0.35	1.38	0.74	0	4
11	00 13 11.303	+20 01 30.50	00132+2002	0.66	0.35	0.62	0.34	0	0
12	00 13 24.901	+06 03 58.63		0.70	0.38	1.25	0.65	1	3
13	00 13 29.600	+05 08 11.22		0.66	0.38	1.17	0.64	1	3
14	00 14 21.179	+04 24 01.59		0.51	0.28	0.86	0.47	0	2
15	00 14 40.564	+07 07 34.67		0.59	0.35	0.69	0.41	0	1
16	00 17 00.615	-09 14 51.86		1.35	0.68	1.47	0.73	4	4
17	00 18 29.096	+09 10 44.77		1.34	0.65	1.53	0.77	4	4
18	00 18 54.149	-04 43 13.38		1.20	0.63	1.24	0.63	3	3
19	00 22 40.051	+21 42 58.78		1.05	0.55	1.33	0.70	2	4
20	00 23 04.568	-21 06 08.41		0.86	0.50	0.87	0.48	2	2
21	00 23 04.714	+04 03 20.98		0.60	0.30	1.73	0.94	0	5
22	00 24 29.765	-09 49 32.50	00245-0950	0.59	0.37	1.16	0.66	0	3
23	00 24 33.087	+12 05 05.20		0.52	0.33	1.39	0.76	0	4
24	00 25 30.769	+24 01 56.06	00255+2402	0.83	0.43	0.94	0.49	1	2
25	00 25 42.295	-03 48 57.70		0.66	0.39	0.90	0.55	1	2
26	00 26 18.809	-19 47 41.49		0.84	0.48	1.51	0.81	2	5
27	00 26 55.249	+25 55 27.44		0.81	0.43	1.25	0.69	1	4
28	00 27 26.137	+04 55 08.52		1.24	0.67	1.33	0.72	3	4
29	00 28 01.630	+34 22 16.26		1.31	0.64	1.58	0.82	3	5
30	00 29 01.952	+11 51 30.53		0.98	0.55	1.43	0.79	2	4
31	00 30 58.326	+03 14 54.98		1.93	1.05	1.77	0.96	6	6
32	00 31 01.842	+25 50 33.46	00310+2551	0.87	0.46	1.27	0.68	2	4
33	00 31 02.980	+09 57 24.98		1.11	0.56	1.66	0.90	3	5
34	00 31 11.312	-10 15 53.65	00312-1016	0.83	0.49	0.85	0.47	2	2
35	00 31 14.911	+39 58 58.09	00313+3959	1.39	0.69	1.57	0.83	4	5
36	00 31 19.183	+08 23 06.70	00313+0823	0.61	0.30	1.24	0.63	0	3
37	00 32 11.841	+39 38 04.31		0.78	0.47	0.99	0.57	1	2
38	00 32 13.078	-08 50 21.04		1.51	0.82	1.43	0.91	5	5
39	00 32 23.023	+11 12 45.46		0.79	0.38	0.87	0.43	1	1
40	00 32 29.903	+14 08 20.45		1.07	0.52	1.58	0.83	2	5
41	00 33 21.203	+20 03 36.44		0.66	0.35	1.06	0.57	0	3
42	00 33 23.627	+27 09 47.15		0.86	0.50	0.84	0.49	2	2
43	00 33 37.425	-22 04 48.50		0.62	0.34	1.20	0.70	0	3
44	00 33 55.545	+38 54 46.12		1.41	0.74	1.48	0.82	4	5
45	00 34 05.274	+01 26 18.89		1.33	0.72	1.41	0.75	4	4
46	00 34 54.364	+02 58 54.51		0.43	0.29	0.98	0.58	0	2
47	00 35 10.510	+19 24 11.40		0.64	0.38	1.30	0.70	1	4
48	00 36 55.572	-19 20 09.42		1.39	0.73	1.57	0.84	4	5
49	00 37 07.238	+41 50 10.99		0.68	0.48	1.30	0.70	1	4
50	00 37 07.551	+12 31 09.08		1.10	0.56	1.19	0.60	3	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
51	00 37 19.356	+27 42 19.72		0.99	0.52	1.49	0.78	2	4
52	00 37 39.062	+03 55 27.13		0.76	0.44	1.50	0.82	1	5
53	00 41 30.097	+21 33 41.28		0.87	0.48	1.42	0.74	2	4
54	00 41 34.873	-09 33 52.12	00416-0934	0.83	0.42	1.19	0.59	1	3
55	00 42 06.632	-10 13 48.93	00421-1014	0.64	0.34	0.77	0.41	0	1
56	00 42 31.252	+22 23 53.47		1.33	0.75	1.53	0.83	4	5
57	00 43 33.798	+04 32 39.61		1.15	0.68	1.26	0.75	3	4
58	00 46 15.714	-05 37 25.77		1.16	0.65	1.16	0.63	3	3
59	00 47 55.986	-03 09 44.27		0.84	0.47	1.04	0.59	2	3
60	00 49 33.364	+40 46 40.94		0.76	0.33	1.43	0.66	1	4
61	00 50 53.086	+01 32 29.30		1.03	0.56	1.20	0.67	2	3
62	00 52 31.065	+22 59 55.09		0.83	0.43	0.90	0.50	1	2
63	00 53 47.552	+07 22 55.25		1.26	0.65	1.77	0.93	3	6
64	00 53 51.625	+39 44 56.81		1.21	0.64	1.49	0.86	3	5
65	00 54 46.648	-05 44 15.45		0.53	0.28	1.23	0.71	0	4
66	00 55 55.057	+00 40 19.15	00559+0040	1.04	0.58	1.32	0.71	3	4
67	00 57 45.877	+11 50 06.06		1.25	0.69	1.55	0.81	4	5
68	00 58 22.174	+22 58 45.97		0.85	0.46	0.89	0.50	2	2
69	00 58 38.817	-09 31 00.56		0.51	0.29	1.38	0.64	0	4
70	00 58 57.646	+27 51 28.88		1.19	0.64	1.40	0.73	3	4
71	00 59 24.808	+33 52 38.98		0.97	0.56	1.32	0.81	2	4
72	00 59 27.117	-08 27 49.59		0.97	0.49	1.31	0.67	2	4
73	01 00 14.118	+32 34 16.31		0.96	0.49	1.20	0.66	2	3
74	01 01 05.028	+23 47 23.37		1.12	0.56	1.35	0.70	3	4
75	01 02 05.696	-01 17 21.92		0.75	0.41	0.83	0.44	1	1
76	01 02 31.499	+11 55 42.55		0.85	0.48	1.58	0.88	2	5
77	01 04 11.786	-06 20 14.80		0.70	0.36	0.97	0.51	1	2
78	01 05 54.289	+19 26 02.86		0.75	0.41	1.30	0.68	1	4
79	01 07 02.020	+13 38 47.32		0.88	0.44	1.12	0.57	1	3
80	01 07 13.269	+28 28 02.22		1.22	0.68	1.21	0.67	3	3
81	01 07 54.866	-07 04 25.80		0.58	0.33	0.76	0.41	0	1
82	01 09 24.934	+24 51 43.25		1.33	0.65	1.47	0.76	4	4
83	01 09 59.454	+23 52 19.49		1.59	0.89	1.69	0.94	5	5
84	01 11 28.154	+34 44 36.39		1.34	0.72	1.32	0.66	4	4
85	01 12 26.043	+13 41 15.28		0.91	0.52	1.13	0.63	2	3
86	01 13 02.730	-09 13 20.27	01131-0913	0.59	0.33	0.74	0.41	0	1
87	01 13 18.823	+25 29 01.13		1.04	0.59	1.40	0.84	3	4
88	01 14 04.307	+16 57 27.42	01141+1657	0.75	0.40	1.39	0.76	1	4
89	01 14 16.494	+10 17 41.66		1.15	0.59	1.30	0.66	3	4
90	01 16 54.621	+15 34 55.48		0.77	0.38	1.60	0.83	1	5
91	01 17 21.969	+27 45 50.52		1.64	0.93	1.77	0.94	5	6
92	01 17 40.562	+11 24 14.07		1.11	0.62	1.27	0.70	3	4
93	01 18 07.709	+30 42 06.50		0.90	0.47	1.08	0.64	2	3
94	01 18 07.814	+19 12 40.18		-0.18	1.16	1.84	0.97	1	6
95	01 18 36.661	+25 00 56.83	01186+2501	0.92	0.50	1.29	0.71	2	4
96	01 18 52.925	+32 44 00.79		1.29	0.65	1.42	0.73	3	4
97	01 19 22.451	-02 21 01.23		1.07	0.56	1.26	0.62	3	3
98	01 20 23.923	+05 54 05.62		1.06	0.56	1.45	0.75	2	4
99	01 21 02.595	-06 00 11.83		1.18	0.63	1.21	0.62	3	3
100	01 22 48.651	+15 00 24.83	01228+1500	1.13	0.57	1.15	0.58	3	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
101	01 23 47.453	+38 41 03.51	01238+3841	0.92	0.52	1.02	0.56	2	2
102	01 24 19.349	+31 39 26.61	01243+3139	0.87	0.45	1.26	0.62	2	3
103	01 24 55.891	+25 17 46.55		0.91	0.44	1.43	0.71	2	4
104	01 26 04.141	-07 23 13.51		0.56	0.34	0.83	0.47	0	1
105	01 27 02.467	+45 29 38.80		1.30	0.70	1.41	0.77	4	4
106	01 27 30.329	-05 26 18.76		0.90	0.52	0.93	0.53	2	2
107	01 28 58.190	+32 44 54.30	01290+3245	0.56	0.38	0.69	0.46	0	1
108	01 29 54.061	-00 45 12.82	01299-0045	1.33	0.66	1.48	0.77	4	4
109	01 30 34.465	-07 02 51.42		1.11	0.62	1.24	0.70	3	4
110	01 31 20.920	+13 59 42.04		1.05	0.52	1.00	0.49	2	2
111	01 31 32.010	+04 33 04.31		0.71	0.38	0.72	0.38	1	1
112	01 35 29.409	+04 02 48.38		0.81	0.43	1.36	0.74	1	4
113	01 37 15.491	+08 54 51.00		0.82	0.51	1.14	0.69	2	3
114	01 38 34.418	+48 12 15.29	01385+4812	0.92	0.50	0.98	0.55	2	2
115	01 39 03.526	+01 42 23.82		1.43	0.78	1.49	0.81	4	5
116	01 39 19.201	+32 10 38.85		1.07	0.55	1.08	0.58	2	3
117	01 39 33.244	-02 33 26.78		0.56	0.33	1.27	0.69	0	4
118	01 42 30.356	+01 54 54.24		0.99	0.50	1.27	0.65	2	3
119	01 44 10.354	+20 00 26.34		1.27	0.65	1.39	0.72	3	4
120	01 44 11.225	-17 52 35.06	01442-1753	0.52	0.29	0.78	0.43	0	1
121	01 44 19.500	+01 08 11.58		1.26	0.72	1.44	0.82	4	4
122	01 46 59.216	-08 04 03.40	01470-0804	0.63	0.32	1.55	0.80	0	5
123	01 48 44.398	+17 03 58.58		1.62	0.84	1.79	0.92	5	6
124	01 49 49.005	+22 16 00.37	01498+2216	1.37	0.71	1.53	0.78	4	5
125	01 51 04.272	+55 58 51.63		0.79	0.39	0.89	0.43	1	1
126	01 51 44.195	+14 35 21.78		1.03	0.52	1.19	0.61	2	3
127	01 52 46.283	-16 42 00.53		0.75	0.36	1.16	0.60	1	3
128	01 55 55.827	+15 58 49.60		1.24	0.64	1.26	0.66	3	3
129	01 56 09.095	-06 49 33.01		0.80	0.46	1.20	0.62	1	3
130	01 56 09.042	-05 26 38.02		1.01	0.55	1.53	0.81	2	5
131	01 57 28.645	-09 43 14.16		1.03	0.58	1.50	0.84	2	5
132	01 59 20.279	+28 31 04.21		0.98	0.50	1.10	0.58	2	3
133	01 59 24.866	+24 43 47.39		0.56	0.32	1.21	0.69	0	3
134	01 59 31.739	+13 17 04.88		0.75	0.45	0.70	0.40	1	1
135	02 02 08.409	+31 45 37.83		0.73	0.35	1.41	0.69	1	4
136	02 03 26.189	+17 43 48.29	02035+1744	1.08	0.54	1.11	0.57	2	3
137	02 03 30.631	+18 24 50.63		1.26	0.73	1.31	0.73	4	4
138	02 03 39.975	+28 15 43.43		0.72	0.33	1.34	0.66	0	4
139	02 04 00.068	+70 29 49.73		0.86	0.26	1.13	0.42	0	2
140	02 06 08.004	+11 11 07.74		0.76	0.40	0.89	0.48	1	2
141	02 08 53.874	+16 10 14.19		1.37	0.72	1.70	0.89	4	5
142	02 09 18.469	-02 20 14.62		0.65	0.38	0.91	0.51	1	2
143	02 11 28.492	-09 59 52.06		0.78	0.44	1.42	0.76	1	4
144	02 12 45.556	+21 39 25.50	02128+2140	1.41	0.71	2.05	1.10	4	7
145	02 16 20.250	-07 30 40.73	02164-0731	0.86	0.41	0.98	0.47	1	2
146	02 17 06.149	-09 57 40.31		0.72	0.42	1.13	0.62	1	3
147	02 18 02.023	-01 29 25.01		1.33	0.68	1.33	0.68	4	4
148	02 18 04.788	+20 37 39.24	02181+2038	0.87	0.40	1.40	0.70	1	4
149	02 19 32.565	-18 35 38.88		1.07	0.55	1.01	0.52	2	2
150	02 19 56.460	+02 12 59.43		0.78	0.43	0.99	0.53	1	2

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
151	02 20 29.094	-05 39 13.27		0.71	0.39	1.23	0.67	1	3
152	02 21 23.160	+07 42 12.22		0.79	0.43	1.55	0.80	1	5
153	02 22 06.039	+03 25 19.25		1.28	0.64	1.30	0.64	3	3
154	02 24 25.401	+05 03 57.03		0.96	0.54	1.59	0.83	2	5
155	02 29 40.228	+44 52 36.13		0.64	0.36	0.92	0.50	0	2
156	02 30 15.224	-01 00 14.50		0.51	0.27	0.86	0.45	0	1
157	02 32 21.203	-05 41 00.12		1.22	0.69	1.13	0.64	3	3
158	02 32 46.475	+00 21 41.59	02328+0021	1.34	0.66	1.39	0.73	4	4
159	02 36 25.589	+44 34 32.98		0.67	0.47	1.35	0.77	1	4
160	02 36 50.400	+06 11 47.64	02368+0612	1.04	0.49	1.41	0.74	2	4
161	02 37 16.115	-08 30 49.29	02373-0831	0.85	0.45	1.25	0.65	1	3
162	02 41 23.057	-08 56 25.23		1.34	0.74	1.32	0.72	4	4
163	02 42 40.312	+05 17 16.26	02427+0517	0.62	0.28	0.82	0.41	0	1
164	02 48 37.424	+06 43 09.39		1.24	0.63	1.29	0.65	3	3
165	02 50 58.210	-02 37 53.02		1.27	0.67	1.34	0.70	3	4
166	02 52 52.638	+32 44 54.06	02529+3245	0.95	0.48	1.16	0.60	2	3
167	02 59 29.972	+06 55 12.78		1.12	0.55	1.31	0.68	3	4
168	02 59 37.045	+38 08 51.15		1.07	0.53	1.26	0.62	2	3
169	03 00 58.798	+37 17 51.08	03010+3718	0.69	0.39	0.97	0.51	1	2
170	03 03 13.729	+05 57 50.34		1.24	0.64	1.43	0.72	3	4
171	03 03 27.209	+44 31 46.44		0.67	0.28	1.01	0.43	0	2
172	03 07 58.456	+40 23 24.14		1.53	0.82	1.55	0.82	5	5
173	03 10 57.116	+05 43 12.22		0.56	0.25	0.89	0.43	0	1
174	03 11 15.037	-00 44 56.75		1.40	0.77	1.61	1.00	4	5
175	03 26 26.950	+40 48 10.69		1.03	0.56	1.24	0.71	2	4
176	03 27 08.842	+16 46 19.59		0.87	0.51	1.18	0.59	2	3
177	03 31 08.802	-07 06 43.68	03312-0707	1.09	0.56	1.41	0.73	3	4
178	03 31 38.944	+06 55 45.54	03317+0656	0.91	0.45	0.92	0.47	2	2
179	03 33 49.235	+38 03 13.11		0.83	0.25	0.87	0.27	0	1
180	03 42 57.731	-05 20 24.42		0.54	0.32	1.26	0.68	0	3
181	03 43 31.426	+17 02 17.54		1.41	0.64	2.07	0.97	4	6
182	03 46 26.144	+17 32 41.08		1.22	0.60	1.27	0.64	3	3
183	03 52 27.444	+36 04 05.37		0.79	0.32	1.38	0.60	1	3
184	04 04 05.876	+15 52 58.84		1.08	0.46	1.18	0.52	2	3
185	04 06 04.068	+18 51 56.44	04061+1852	1.09	0.47	1.27	0.54	2	3
186	04 06 05.428	+13 19 45.64		1.02	0.43	1.77	0.88	2	5
187	04 07 51.444	+79 49 39.60		1.44	0.77	1.57	0.85	4	5
188	04 12 58.102	-05 03 02.51		1.36	0.72	1.77	0.96	4	6
189	04 24 29.044	+35 06 18.95		0.96	0.48	1.04	0.52	2	2
190	04 37 26.664	-05 02 39.49		1.45	0.76	1.59	0.87	4	5
191	04 42 35.948	+22 40 49.38		0.85	0.38	1.37	0.64	1	4
192	04 49 44.604	-03 46 54.18	04498-0347	1.26	0.69	1.43	0.78	4	4
193	04 57 41.731	-03 15 40.88		0.71	0.43	1.14	0.59	1	3
194	05 17 26.681	+62 16 13.18		1.34	0.58	1.17	0.55	3	3
195	05 24 28.211	-01 34 46.11		0.86	0.38	1.18	0.51	1	3
196	05 32 38.688	+03 26 46.19		0.93	0.48	1.43	0.75	2	4
197	05 38 44.483	-04 54 48.44		1.04	0.50	1.29	0.63	2	3
198	06 08 05.772	+64 47 22.62		1.46	0.75	1.40	0.71	4	4
199	06 14 56.329	+65 08 39.22	06149+6508	1.07	0.54	1.36	0.70	2	4
200	06 25 38.495	+63 57 41.98		1.29	0.62	1.33	0.62	3	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
201	06 28 15.886	+00 36 52.75		0.94	0.28	1.03	0.32	1	1
202	06 34 56.624	+26 57 51.04		-0.23	1.97	1.30	0.71	2	4
203	06 37 53.610	+65 56 45.66		1.05	0.52	1.15	0.60	2	3
204	06 43 36.812	+27 22 10.03		-0.70	2.08	1.27	0.61	1	3
205	06 53 28.958	+29 46 46.15	06535+2946	1.21	0.60	1.43	0.73	3	4
206	07 12 21.142	+39 46 50.18		1.43	0.75	1.42	0.73	4	4
207	07 27 41.964	+35 09 05.11		0.54	0.35	0.30	0.38	0	0
208	07 33 45.890	+19 57 56.76		1.07	0.58	1.10	0.58	3	3
209	07 34 50.782	+41 03 39.20		0.85	0.46	1.09	0.58	1	3
210	07 36 05.892	+24 09 46.80		0.67	0.36	1.46	0.77	1	4
211	07 36 10.061	+24 15 16.92		0.71	0.36	1.33	0.69	1	4
212	07 37 58.633	+38 35 30.48		1.06	0.52	1.55	0.80	2	5
213	07 38 39.075	+43 04 34.55		0.83	0.43	1.47	0.75	1	4
214	07 40 25.456	+26 11 25.02		1.00	0.55	1.11	0.61	2	3
215	07 41 12.939	+49 23 22.40		1.47	0.79	1.44	0.76	4	4
216	07 41 57.063	+19 55 33.28	07419+1956	1.39	0.76	1.52	0.86	4	5
217	07 45 40.971	+00 32 40.12		-0.41	1.59	1.45	0.74	1	4
218	07 47 41.037	+13 37 02.16		1.58	0.83	1.62	0.88	5	5
219	07 49 45.986	+26 39 23.69		1.40	0.78	1.68	0.95	4	5
220	07 53 28.751	+50 01 36.18		0.69	0.37	0.99	0.58	1	2
221	07 54 41.919	+27 23 01.86	07547+2723	0.96	0.43	1.04	0.49	2	2
222	07 55 56.586	+18 29 04.29		0.64	0.35	0.53	0.44	0	1
223	07 57 11.288	+21 34 40.11		1.18	0.58	1.20	0.59	3	3
224	07 57 38.093	+39 59 13.27		1.07	0.56	1.25	0.60	3	3
225	07 57 46.309	+11 38 37.44	07578+1139	0.58	0.34	0.77	0.45	0	1
226	08 00 10.222	+40 55 35.86		0.75	0.41	1.37	0.74	1	4
227	08 01 04.213	-01 33 38.33		1.33	0.71	1.43	0.78	4	4
228	08 02 27.381	+39 30 56.11	08025+3931	-0.08	0.89	0.83	0.43	1	1
229	08 03 39.347	+34 18 41.50		0.75	0.35	1.05	0.52	1	2
230	08 03 50.659	+25 11 45.73	08039+2512	1.36	0.69	1.48	0.82	4	5
231	08 05 30.098	+36 44 33.63		1.03	0.58	1.12	0.61	3	3
232	08 11 09.572	+15 14 58.85		1.33	0.73	1.35	0.75	4	4
233	08 11 37.468	+25 39 55.89	08116+2540	1.41	0.72	1.48	0.76	4	4
234	08 12 10.665	+29 53 32.72		0.46	0.30	1.09	0.61	0	3
235	08 13 19.919	+06 11 33.40	08133+0612	1.22	0.66	1.29	0.70	3	4
236	08 15 04.934	+47 18 54.55		1.71	0.92	2.02	1.07	5	6
237	08 15 21.708	+50 23 02.69	08154+5023	0.96	0.48	1.26	0.68	2	3
238	08 18 54.844	+42 37 44.35		0.62	0.38	1.15	0.64	1	3
239	08 19 08.181	+45 51 36.96		1.19	0.57	1.71	0.91	3	5
240	08 20 10.779	+06 36 50.21		1.15	0.61	1.36	0.76	3	4
241	08 20 19.857	-00 50 27.52		0.70	0.38	1.31	0.69	1	4
242	08 20 27.933	+43 16 22.36		1.09	0.58	1.27	0.66	3	3
243	08 20 29.169	+39 31 59.89	08205+3932	1.18	0.62	1.29	0.70	3	4
244	08 23 28.192	+37 37 54.08		0.77	0.42	1.21	0.65	1	3
245	08 23 57.705	+33 52 16.36	08240+3352	1.11	0.56	1.27	0.64	3	3
246	08 24 43.203	+27 53 48.00		1.42	0.75	1.52	0.82	4	5
247	08 24 49.624	+02 56 04.70	08248+0256	0.98	0.50	1.57	0.85	2	5
248	08 24 53.980	+28 45 55.96	08249+2846	1.05	0.54	1.39	0.76	2	4
249	08 25 58.941	+41 46 37.01	08259+4147	1.34	0.72	1.64	0.89	4	5
250	08 27 13.475	+41 35 29.96	08273+4135	0.58	0.30	1.47	0.76	0	4

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
251	08 32 03.882	+40 41 50.13		1.14	0.63	1.45	0.79	3	4
252	08 33 53.589	+55 40 56.10	08338+5541	0.98	0.54	1.31	0.71	2	4
253	08 35 30.940	+38 26 30.83	08355+3826	1.19	0.62	1.22	0.62	3	3
254	08 35 49.693	+47 51 22.09		0.87	0.49	1.03	0.58	2	3
255	08 36 12.681	+23 04 54.20	08362+2305	1.31	0.69	1.37	0.70	4	4
256	08 36 40.219	+11 02 26.56		0.84	0.45	0.99	0.57	1	2
257	08 37 38.135	+04 56 55.28		0.90	0.53	1.44	0.78	2	4
258	08 37 39.019	+47 20 27.74		1.01	0.59	1.29	0.73	3	4
259	08 38 13.661	+08 49 07.69	08382+0849	0.75	0.41	1.17	0.64	1	3
260	08 40 39.381	+63 17 58.97		1.18	0.59	1.61	0.79	3	5
261	08 41 28.196	+03 13 58.10		1.20	0.61	1.33	0.71	3	4
262	08 43 38.997	+46 21 17.72		1.06	0.51	1.22	0.57	2	3
263	08 44 38.666	+58 21 33.20	08446+5821	1.04	0.53	1.13	0.58	2	3
264	08 45 49.994	+00 19 27.45		1.08	0.60	1.23	0.64	3	3
265	08 47 15.331	+24 40 02.33		1.17	0.60	1.38	0.72	3	4
266	08 47 42.307	+17 57 17.16		1.28	0.66	1.38	0.73	3	4
267	08 47 50.335	+25 39 34.21	08478+2539	1.03	0.53	1.06	0.55	2	2
268	08 48 00.282	+81 47 54.51		0.76	0.36	1.13	0.58	1	3
269	08 48 17.174	+46 14 16.60	08480+4614	0.86	0.49	0.85	0.49	2	2
270	08 49 33.546	+03 10 28.79	08495+0311	1.02	0.55	1.09	0.57	2	3
271	08 49 40.162	+41 28 00.65		0.72	0.39	1.36	0.73	1	4
272	08 50 03.515	+13 05 36.77		0.73	0.40	1.08	0.61	1	3
273	08 50 32.515	+36 26 17.61		1.45	0.80	1.42	0.78	4	4
274	08 50 51.226	+47 25 47.95	08508+4726	1.13	0.61	1.49	0.75	3	4
275	08 51 14.522	+22 25 26.89		0.91	0.47	1.43	0.81	2	4
276	08 51 15.248	+10 12 54.90		0.72	0.40	1.15	0.63	1	3
277	08 51 38.974	+05 25 26.61		1.42	0.74	1.58	0.84	4	5
278	08 55 01.701	+24 49 36.97		1.34	0.75	1.62	0.77	4	5
279	08 55 18.840	+10 41 21.98		1.19	0.68	1.43	0.78	3	4
280	08 56 09.961	+05 30 33.73		1.09	0.55	1.71	0.89	2	5
281	09 00 42.342	+31 48 33.61	09007+3148	1.39	0.72	1.60	0.85	4	5
282	09 02 19.241	+18 18 14.68		0.55	0.29	1.37	0.73	0	4
283	09 03 15.540	-02 11 57.58	09033-0212	0.87	0.47	1.39	0.75	2	4
284	09 06 22.012	+42 43 15.47		0.55	0.29	1.13	0.61	0	3
285	09 06 29.324	+12 33 07.74		0.98	0.52	1.26	0.69	2	4
286	09 07 23.631	+26 43 19.18		1.06	0.57	1.34	0.79	3	4
287	09 07 39.141	+16 50 43.41		1.01	0.53	1.28	0.68	2	4
288	09 10 56.628	+56 32 47.19		1.15	0.61	1.31	0.69	3	4
289	09 11 22.740	+45 20 21.08		1.24	0.66	1.14	0.66	3	3
290	09 11 39.524	+49 33 26.77		0.70	0.40	1.28	0.71	1	4
291	09 15 39.898	+14 25 44.95	09157+1426	1.27	0.67	1.48	0.80	3	4
292	09 15 52.006	+13 45 35.90		1.04	0.59	1.09	0.58	3	3
293	09 16 10.456	+66 32 47.71		1.55	0.85	2.31	1.24	5	7
294	09 16 23.681	+33 36 26.70	09164+3336	0.75	0.38	0.81	0.42	1	1
295	09 16 33.194	+54 47 13.20	09160+5447	1.07	0.55	1.23	0.64	2	3
296	09 17 07.113	+23 59 36.30		-0.36	1.98	1.31	0.65	2	3
297	09 17 35.088	+36 50 57.38		-0.08	1.65	1.43	0.77	3	4
298	09 19 42.501	+24 17 24.19		1.46	0.75	1.46	0.77	4	4
299	09 19 41.593	+83 01 43.98	09197+2417	0.80	0.44	0.74	0.41	1	1
300	09 19 46.154	+40 34 08.40		0.94	0.59	1.44	0.88	2	5

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
301	09 25 13.725	+03 32 35.01		1.40	0.75	1.49	0.79	4	4
302	09 26 40.484	+22 30 02.50		-0.94	2.42	1.53	0.12	0	1
303	09 26 57.898	+04 56 14.86	09270+0456	0.80	0.42	1.32	0.70	1	4
304	09 27 35.354	+09 00 52.87	09276+0901	1.36	0.76	1.57	0.92	4	5
305	09 28 55.598	+47 50 41.09		1.61	0.91	1.70	0.90	5	5
306	09 32 45.762	+39 21 52.79		1.27	0.67	1.44	0.77	3	4
307	09 33 17.372	+28 09 23.43	09333+2809	1.13	0.59	1.47	0.75	3	4
308	09 34 24.634	+10 25 32.63	09344+1025	1.09	0.56	1.25	0.66	3	3
309	09 34 53.275	+34 25 14.40	09349+3425	1.47	0.75	1.50	0.81	4	5
310	09 35 50.058	+51 53 26.18	09359+5154	0.74	0.43	1.83	1.04	1	6
311	09 36 17.915	+38 47 34.13		0.56	0.35	1.33	0.70	0	4
312	09 37 11.388	+50 01 28.77		1.00	0.57	1.20	0.68	2	3
313	09 39 59.014	+42 31 37.46		1.46	0.80	1.69	0.94	4	5
314	09 42 03.249	+33 31 09.62	09421+3331	0.80	0.48	0.96	0.54	1	2
315	09 43 20.749	+35 27 42.51		1.31	0.70	1.34	0.72	4	4
316	09 43 21.521	-00 01 01.04		1.30	0.60	1.34	0.64	3	4
317	09 44 50.838	+46 38 48.46	09449+4638	1.01	0.53	1.49	0.77	2	4
318	09 46 18.778	+32 41 16.33		1.31	0.71	1.37	0.76	4	4
319	09 46 52.682	+07 16 56.14		1.11	0.64	1.18	0.65	3	3
320	09 47 44.714	+51 40 22.00	09477+5141	1.03	0.56	1.23	0.67	2	3
321	09 48 16.388	-03 08 01.63		0.75	0.41	1.09	0.56	1	3
322	09 48 44.725	+00 08 49.98	09480+0008	1.23	0.67	1.15	0.64	3	3
323	09 52 23.152	+16 07 58.68		1.26	0.62	1.28	0.65	3	3
324	09 52 31.061	+32 11 49.12		0.93	0.57	0.98	0.54	2	2
325	09 53 51.005	+04 25 43.23		1.15	0.61	1.42	0.77	3	4
326	09 55 19.607	+61 29 33.80		0.98	0.52	1.41	0.76	2	4
327	09 56 40.560	+79 45 27.39	09566+1904	0.56	0.31	0.65	0.42	0	1
328	09 56 37.196	+19 04 11.77		0.66	0.39	1.45	0.77	1	4
329	09 56 45.388	+32 19 26.58	09568+3220	0.74	0.39	1.09	0.55	1	3
330	09 57 44.836	+25 26 10.76	09578+2526	0.65	0.38	0.67	0.40	1	1
331	09 58 05.126	-03 02 38.73	09581-0303	0.90	0.48	1.17	0.64	2	3
332	09 59 05.886	+45 27 28.79		1.22	0.65	1.30	0.68	3	4
333	09 59 10.526	+18 39 37.65	09592+1840	0.76	0.42	1.19	0.63	1	3
334	10 00 31.059	+02 41 55.51	10005+0242	1.19	0.63	1.46	0.77	3	4
335	10 00 54.758	+68 59 39.17		1.13	0.54	1.51	0.76	3	4
336	10 02 27.108	+42 21 05.84	10025+4221	1.27	0.72	1.31	0.71	4	4
337	10 02 45.396	+13 38 42.51	10028+1339	0.48	0.26	0.65	0.35	0	0
338	10 05 35.690	+02 16 49.18	10056+0217	1.09	0.55	1.44	0.74	3	4
339	10 05 45.572	+04 12 09.15	10058+0412	0.87	0.49	0.88	0.48	2	2
340	10 06 40.860	+41 35 03.87		1.75	0.95	2.20	1.25	6	7
341	10 07 51.715	+42 52 56.52	10079+4253	1.56	0.87	1.61	0.85	5	5
342	10 09 03.289	+42 16 15.32		1.41	0.77	1.81	0.93	4	6
343	10 09 46.927	+22 45 43.62		1.30	0.70	1.41	0.74	4	4
344	10 12 10.070	+22 51 35.70	10121+2251	0.88	0.43	1.23	0.62	1	3
345	10 13 04.859	+46 30 10.64	10131+4630	0.58	0.31	1.36	0.74	0	4
346	10 13 47.444	+24 56 46.34	10138+2457	1.21	0.68	1.27	0.71	3	4
347	10 14 26.143	+24 48 57.42		1.04	0.60	1.45	0.79	3	4
348	10 16 01.829	+16 45 00.46	10160+1645	1.10	0.57	1.36	0.70	3	4
349	10 17 21.650	+21 55 49.78		0.68	0.37	1.29	0.74	1	4
350	10 17 24.665	+12 38 50.43		1.05	0.55	1.23	0.64	2	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
351	10 17 39.949	+26 20 58.55		1.16	0.65	1.37	0.77	3	4
352	10 17 56.793	+02 12 33.14		0.97	0.51	1.44	0.73	2	4
353	10 18 40.689	+50 43 31.73	10186+5044	1.03	0.53	1.26	0.66	2	3
354	10 19 48.314	+33 28 23.73		0.51	0.26	1.23	0.66	0	3
355	10 19 54.361	+34 01 18.89		0.53	0.30	1.04	0.56	0	2
356	10 19 57.039	+28 33 27.05	10200+2834	1.04	0.47	1.34	0.62	2	3
357	10 20 40.578	+09 41 53.34		1.29	0.56	1.70	0.86	3	5
358	10 21 57.409	+11 50 11.63		1.09	0.55	1.45	0.75	2	4
359	10 23 07.558	+04 18 28.22		0.53	0.36	1.13	0.67	0	3
360	10 24 11.289	+07 37 59.43		0.94	0.50	1.01	0.55	2	2
361	10 24 16.904	+17 38 19.62		1.40	0.74	1.53	0.91	4	5
362	10 24 37.639	-00 10 27.46	10246-0011	1.07	0.54	1.47	0.76	2	4
363	10 24 48.281	+02 35 48.30	10248+0236	0.95	0.58	1.16	0.71	2	3
364	10 25 54.364	+13 22 48.95	10259+1323	1.28	0.74	1.39	0.80	4	4
365	10 26 00.087	+64 35 34.40		0.55	0.35	0.55	0.40	0	0
366	10 26 56.033	+43 09 04.94	10269+4309	1.17	0.65	1.20	0.67	3	3
367	10 29 07.021	+27 46 15.57	10291+2746	1.08	0.53	1.24	0.62	2	3
368	10 30 50.576	+21 15 20.62	10308+2116	1.03	0.57	1.10	0.62	2	3
369	10 31 36.580	+57 32 08.94		1.24	0.65	1.23	0.62	3	3
370	10 31 53.960	+09 13 44.10	10319+0914	1.09	0.63	1.14	0.63	3	3
371	10 32 18.410	+03 52 18.12		0.14	0.97	1.27	0.68	2	4
372	10 33 11.270	+10 20 29.29	10332+1021	1.09	0.53	1.19	0.60	2	3
373	10 33 37.712	+44 08 30.07		1.06	0.60	1.24	0.70	3	4
374	10 34 47.554	+50 20 19.13		0.84	0.53	0.97	0.59	2	2
375	10 36 17.192	+04 05 23.79		0.55	0.34	0.71	0.35	0	1
376	10 39 42.664	+32 55 02.02	10397+3255	0.81	0.43	1.13	0.59	1	3
377	10 39 54.822	+54 24 42.42	10399+5425	1.18	0.58	1.15	0.59	3	3
378	10 43 07.332	+22 32 48.50		0.64	0.38	1.09	0.59	1	3
379	10 43 35.241	+32 06 48.30	10436+3207	1.14	0.62	1.21	0.64	3	3
380	10 44 15.247	+29 26 45.81		1.08	0.56	1.37	0.71	3	4
381	10 44 38.732	+10 10 06.16	10446+1010	1.30	0.71	1.27	0.69	4	4
382	10 44 56.756	+08 34 16.06	10449+0834	0.87	0.49	0.96	0.53	2	2
383	10 45 13.102	+56 05 01.87	10452+5605	1.43	0.79	1.49	0.85	4	5
384	10 46 11.080	+15 53 48.67		1.17	0.62	1.72	0.89	3	5
385	10 46 32.081	-22 49 44.94		1.22	0.65	1.37	0.73	3	4
386	10 46 42.811	+06 41 10.31		0.68	0.39	1.08	0.60	1	3
387	10 47 02.206	+26 47 52.04		0.66	0.35	1.14	0.57	0	3
388	10 47 26.687	+22 49 18.36		1.29	0.65	1.67	0.88	3	5
389	10 48 08.409	+04 48 04.02		1.15	0.58	1.46	0.76	3	4
390	10 48 11.799	+53 58 54.62		0.88	0.51	0.99	0.59	2	2
391	10 48 46.587	+21 57 16.01	10488+2157	0.95	0.48	1.41	0.74	2	4
392	10 48 55.219	+11 48 47.60	10489+1149	0.88	0.48	1.22	0.67	2	3
393	10 48 55.616	+46 47 34.69	10490+4648	0.76	0.44	0.82	0.47	1	1
394	10 49 09.013	+65 21 57.36	10490+6522	1.43	0.75	1.49	0.80	4	5
395	10 49 38.679	+27 21 21.02		1.28	0.66	1.39	0.75	3	4
396	10 49 41.935	+47 49 55.17		1.19	0.68	1.21	0.67	3	3
397	10 49 44.751	+19 41 18.40	10497+1941	1.17	0.68	1.25	0.70	3	4
398	10 49 44.927	+39 15 25.65		1.20	0.64	1.33	0.70	3	4
399	10 50 21.993	+67 02 54.03	10504+6703	1.11	0.58	1.34	0.70	3	4
400	10 50 33.430	+22 00 35.99		0.45	0.29	1.25	0.66	0	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
401	10 51 51.503	+01 04 54.74		0.69	0.32	1.04	0.50	0	2
402	10 52 55.521	+53 47 53.57	10529+5348	1.02	0.51	1.06	0.52	2	2
403	10 54 17.167	+21 47 58.57	10543+2148	1.18	0.57	1.19	0.62	3	3
404	10 54 51.574	+24 10 19.98	10549+2410	0.93	0.48	1.25	0.65	2	3
405	10 56 03.711	+49 56 33.75		0.47	0.28	0.45	0.37	0	0
406	10 56 25.653	+39 46 17.35		0.78	0.44	1.78	1.05	1	6
407	10 58 41.683	-02 52 16.71		0.80	0.45	0.87	0.51	1	2
408	10 58 51.008	+38 00 59.08	10588+3801	1.22	0.62	1.49	0.78	3	4
409	10 59 13.639	+50 04 30.16	10592+5005	0.76	0.37	0.89	0.44	1	2
410	11 00 03.135	+37 40 40.68		0.81	0.43	1.53	0.81	1	5
411	11 00 08.976	+12 45 58.00		0.82	0.41	1.00	0.52	1	2
412	11 00 17.925	+24 36 42.60	11003+2437	1.44	0.80	1.55	0.85	4	5
413	11 00 50.924	+41 48 05.63		1.44	0.82	1.39	0.75	4	4
414	11 01 27.922	+59 10 16.81	11014+5910	1.57	0.79	1.57	0.81	5	5
415	11 02 39.811	+38 29 06.56		0.92	0.51	1.32	0.67	2	4
416	11 03 12.333	+79 41 22.78		1.10	0.58	1.51	0.80	3	5
417	11 04 52.537	+52 39 47.31	11049+5240	0.77	0.43	1.18	0.67	1	3
418	11 06 02.244	+20 20 03.38	11060+2020	1.22	0.69	1.37	0.78	3	4
419	11 07 16.121	+08 07 46.82		1.41	0.77	1.52	0.86	4	5
420	11 08 07.941	+08 00 52.71	11081+0801	0.62	0.37	1.46	0.84	0	5
421	11 08 56.048	-02 33 06.68		0.57	0.30	0.89	0.47	0	2
422	11 09 07.098	+28 35 00.87		1.43	0.76	1.60	0.85	4	5
423	11 09 45.643	+43 17 23.14		0.68	0.51	1.09	0.72	1	3
424	11 10 47.143	+28 36 54.92		1.41	0.73	1.43	0.73	4	4
425	11 12 12.570	+37 48 26.20	11122+3749	0.78	0.38	0.80	0.39	1	1
426	11 12 35.082	+22 23 08.05		1.12	0.53	1.30	0.59	3	3
427	11 15 11.605	+56 56 26.33		1.32	0.65	1.41	0.70	4	4
428	11 15 58.776	+22 52 32.29		0.63	0.38	0.89	0.44	1	1
429	11 16 24.989	+36 01 18.57	11164+3601	1.08	0.57	1.24	0.68	3	3
430	11 17 29.276	+42 00 32.78		1.13	0.64	1.54	0.89	3	5
431	11 18 42.434	-01 49 40.68		0.73	0.36	1.22	0.59	1	3
432	11 20 06.359	-03 17 57.91		0.61	0.29	0.68	0.40	0	1
433	11 20 11.153	+35 06 44.65		0.67	0.36	1.09	0.57	1	3
434	11 20 44.990	+73 43 23.65		1.16	0.64	1.60	0.93	3	5
435	11 21 08.773	+18 59 32.92	11212+1859	0.90	0.45	1.02	0.50	2	2
436	11 21 21.017	-02 11 30.24		0.85	0.43	1.37	0.69	1	4
437	11 22 26.325	+34 37 43.54		0.52	0.30	0.83	0.50	0	2
438	11 22 27.858	+32 56 18.11		0.98	0.54	1.38	0.74	2	4
439	11 22 48.078	-11 22 32.35	11228-1123	0.61	0.36	1.28	0.74	0	4
440	11 23 23.207	+39 10 22.70		0.75	0.41	1.68	0.95	1	5
441	11 23 29.073	+20 09 24.33	11235+2009	1.69	0.96	1.69	0.93	5	5
442	11 24 29.349	+02 05 37.58	11245+0205	0.54	0.29	1.45	0.75	0	4
443	11 24 36.532	+27 17 07.74		0.52	0.31	1.05	0.57	0	3
444	11 24 41.486	+23 54 52.37		1.13	0.60	1.43	0.77	3	4
445	11 26 04.512	+09 23 41.39	11261+0924	1.08	0.53	1.34	0.68	2	4
446	11 27 48.193	+10 20 18.37		1.06	0.47	1.11	0.55	2	3
447	11 27 58.012	+32 16 25.87	11280+3216	1.28	0.70	1.50	0.82	4	5
448	11 28 04.433	-02 09 26.47	11281-0209	1.23	0.65	1.32	0.72	3	4
449	11 28 11.645	+06 12 13.60	11282+0612	0.99	0.53	1.05	0.56	2	2
450	11 28 35.992	+07 48 38.44		1.09	0.58	1.49	0.82	3	5

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
451	11 28 40.211	+00 07 29.97	11286+0007	-0.88	1.46	0.75	0.41	0	1
452	11 28 50.052	+46 14 50.88	11288+4615	0.87	0.48	1.75	0.91	2	5
453	11 28 55.422	+32 06 03.26		0.54	0.31	0.60	0.32	0	0
454	11 29 39.127	+31 47 18.81	11297+3147	0.83	0.44	1.11	0.57	1	3
455	11 29 55.782	+20 16 31.56		1.26	0.67	1.31	0.69	3	4
456	11 30 14.673	+11 59 45.14		1.00	0.56	1.24	0.71	2	4
457	11 31 01.662	-00 06 21.98	11310-0006	0.75	0.35	0.90	0.42	1	1
458	11 31 20.252	-05 21 48.94		0.89	0.48	0.92	0.52	2	2
459	11 31 37.313	+60 02 26.98		0.61	0.35	1.32	0.71	0	4
460	11 32 37.206	-00 08 13.18	11326-0008	0.68	0.40	1.42	0.79	1	4
461	11 33 37.489	+00 35 14.66	11336+0035	1.43	0.77	1.46	0.80	4	4
462	11 37 20.686	+30 55 34.76		1.28	0.77	1.34	0.75	4	4
463	11 39 25.517	+24 52 38.32	11394+2453	1.24	0.74	1.30	0.73	4	4
464	11 40 00.664	+07 33 02.71		0.64	0.44	1.39	0.80	1	4
465	11 40 31.275	+51 04 45.65		0.59	0.37	1.36	0.68	0	4
466	11 41 14.745	+26 53 05.38	11412+2653	0.61	0.34	0.75	0.41	0	1
467	11 41 38.459	+30 11 44.03	11416+3012	1.13	0.61	1.16	0.64	3	3
468	11 42 25.230	+07 34 52.05	11424+0735	0.86	0.42	1.21	0.57	1	3
469	11 42 41.818	+25 51 03.23	11427+2551	1.06	0.54	1.11	0.56	2	3
470	11 46 10.967	+54 13 17.71		0.70	0.40	0.97	0.53	1	2
471	11 46 13.746	+14 53 44.42		1.14	0.66	1.17	0.64	3	3
472	11 46 54.318	+16 01 05.94		1.10	0.61	1.39	0.76	3	4
473	11 46 59.601	+59 55 48.95		1.19	0.61	1.18	0.60	3	3
474	11 47 27.357	+13 32 24.21		-0.30	1.20	1.54	0.80	1	5
475	11 48 50.958	+67 03 16.89	11488+6703	0.45	0.32	1.04	0.58	0	3
476	11 50 14.190	+05 44 17.06	11502+0544	1.02	0.54	1.03	0.55	2	2
477	11 50 25.953	+11 10 51.86		1.23	0.71	1.23	0.74	4	4
478	11 50 31.950	+70 29 03.90	11505+7029	1.12	0.60	1.38	0.69	3	4
479	11 50 33.789	+30 59 12.73		0.55	0.28	0.59	0.30	0	0
480	11 51 44.352	+48 50 15.63		0.53	0.30	1.17	0.59	0	3
481	11 52 32.042	+11 49 17.73		1.32	0.77	1.62	0.96	4	5
482	11 54 26.733	-02 01 57.63		1.44	0.80	1.58	0.88	4	5
483	11 54 32.290	+19 20 43.58		1.56	0.92	1.83	1.06	5	6
484	11 54 45.497	+25 32 19.46		1.23	0.64	1.32	0.69	3	4
485	11 55 45.263	+37 46 26.83		0.65	0.37	0.93	0.57	1	2
486	11 56 55.911	+27 32 03.21		0.74	0.30	1.21	0.48	0	2
487	11 57 04.921	+59 14 04.80		0.75	0.50	0.84	0.55	1	2
488	11 58 48.183	+28 28 25.22		0.53	0.31	0.49	0.53	0	1
489	11 58 56.747	+47 53 23.79		0.80	0.43	1.04	0.53	1	2
490	12 01 02.531	+09 04 54.59		1.16	0.61	1.41	0.75	3	4
491	12 01 16.307	+41 58 07.46		0.88	0.46	1.61	0.88	2	5
492	12 01 53.823	+19 39 20.94		0.77	0.39	2.05	1.07	1	7
493	12 03 17.642	+17 14 50.47	12033+1715	1.00	0.52	1.24	0.61	2	3
494	12 03 41.274	+37 14 39.60		1.08	0.57	1.27	0.66	3	3
495	12 03 47.211	+50 12 30.32		0.79	0.42	0.84	0.46	1	1
496	12 04 13.921	+32 37 57.65		-0.57	1.14	0.65	0.35	0	0
497	12 05 24.397	+39 51 02.13	12054+3951	0.49	0.27	0.99	0.53	0	2
498	12 09 59.477	+34 50 39.07	12100+3451	1.01	0.54	1.31	0.70	2	4
499	12 11 33.132	+58 27 26.00	12115+5827	0.84	0.48	1.03	0.68	2	3
500	12 12 26.662	+06 26 31.88		0.48	0.27	1.27	0.64	0	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
501	12 13 23.223	+06 41 36.37		0.51	0.29	1.21	0.58	0	3
502	12 15 21.653	-00 22 43.83	12153-0022	0.80	0.47	0.87	0.49	1	2
503	12 15 34.225	+15 35 59.16		0.52	0.26	1.53	0.78	0	5
504	12 15 52.022	+04 34 04.25		0.79	0.49	0.88	0.49	2	2
505	12 17 05.223	+43 37 43.06		0.60	0.28	1.66	0.76	0	5
506	12 17 06.107	+65 34 35.10	12170+6534	0.65	0.35	0.90	0.48	0	2
507	12 18 16.649	+29 13 29.30		0.48	0.30	1.31	0.75	0	4
508	12 18 34.885	+24 40 29.51		1.08	0.54	0.94	0.45	2	2
509	12 19 20.652	+55 58 02.98		1.28	0.68	1.72	0.91	4	5
510	12 20 52.160	+41 09 21.78		1.17	0.68	1.47	0.83	3	5
511	12 22 31.850	+00 53 57.50	12225+0053	1.03	0.58	1.20	0.66	3	3
512	12 24 05.659	+10 04 19.13		0.96	0.53	1.28	0.70	2	4
513	12 24 23.268	+00 22 22.82	12244+0022	0.79	0.46	1.16	0.64	1	3
514	12 24 43.821	+31 46 25.30		0.94	0.52	1.41	0.82	2	4
515	12 26 49.083	+48 03 15.58		0.70	0.27	1.17	0.58	0	3
516	12 27 05.757	+22 02 49.93	12271+2203	1.21	0.61	1.44	0.73	3	4
517	12 27 20.261	+63 26 12.42	12273+6326	1.13	0.62	1.25	0.67	3	3
518	12 27 33.973	+21 11 12.33	12276+2111	0.85	0.45	1.09	0.60	1	3
519	12 31 22.331	+02 33 42.75	12314+0234	1.18	0.62	1.41	0.75	3	4
520	12 32 47.541	-01 58 29.01		0.76	0.44	1.21	0.66	1	3
521	12 35 44.317	+20 23 16.97	12358+2023	1.07	0.55	1.11	0.55	2	3
522	12 35 46.099	+56 41 17.11	12358+5641	1.28	0.69	1.68	0.93	4	5
523	12 35 53.822	+03 24 19.59		0.62	0.35	0.72	0.41	0	1
524	12 37 21.056	+36 06 18.64		1.04	0.55	1.36	0.75	2	4
525	12 37 30.243	-22 46 05.80		0.77	0.40	1.16	0.58	1	3
526	12 39 01.374	+33 54 02.09	12390+3354	0.90	0.50	1.04	0.59	2	3
527	12 39 08.090	+46 33 58.03		0.67	0.34	0.94	0.50	0	2
528	12 39 22.006	+11 17 57.01		-0.65	1.81	0.95	0.49	1	2
529	12 40 36.715	+34 44 18.89	12406+3444	0.72	0.69	0.11	1.35	2	3
530	12 40 59.758	+46 45 10.00	12410+4645	0.69	0.36	0.91	0.48	1	2
531	12 41 44.706	+49 45 13.31		0.47	0.31	0.55	0.37	0	0
532	12 42 32.916	+16 27 43.88	12426+1628	1.04	0.48	1.02	0.52	2	2
533	12 42 58.574	-04 46 31.41	12430-0447	0.94	0.55	1.06	0.60	2	3
534	12 44 11.643	+10 37 05.11		1.01	0.52	1.68	0.85	2	5
535	12 47 39.217	+32 54 02.43	12477+3254	0.95	0.50	1.14	0.56	2	3
536	12 48 04.436	-01 25 42.20	12481-0126	0.80	0.37	1.43	0.72	1	4
537	12 48 18.910	-11 27 44.85		0.83	0.44	1.19	0.58	1	3
538	12 48 22.429	+05 27 24.00	12484+0528	-0.65	2.46	1.27	0.71	1	4
539	12 49 01.434	+24 00 54.20		0.64	0.30	1.08	0.49	0	2
540	12 49 44.044	+06 16 38.90		-0.57	1.17	0.45	0.38	0	0
541	12 51 20.304	+12 20 37.82		0.51	0.28	1.26	0.67	0	3
542	12 52 07.960	+11 59 56.82	12521+1200	1.07	0.55	1.30	0.69	2	4
543	12 52 12.110	+47 33 02.98		1.26	0.67	1.25	0.70	3	4
544	12 52 21.480	-02 16 04.66	12524-0216	1.12	0.55	1.26	0.62	3	3
545	12 53 04.694	+13 09 57.28		1.20	0.63	1.06	0.62	3	3
546	12 53 11.726	+42 54 55.31		1.44	0.75	1.37	0.70	4	4
547	12 56 51.031	+20 56 23.15	12569+2056	0.91	0.48	0.86	0.47	2	2
548	12 57 22.648	+08 30 52.24		0.86	0.45	1.09	0.59	1	3
549	12 57 42.887	+09 25 21.70	12577+0925	1.05	0.61	1.12	0.63	3	3
550	12 57 44.844	+12 29 51.46		1.56	0.86	1.58	0.88	5	5

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
551	12 58 22.848	+06 39 30.02	12584+0639	0.70	0.37	1.06	0.56	1	2
552	12 58 25.398	+00 05 06.54		1.21	0.61	1.50	0.79	3	4
553	12 58 42.863	+33 09 15.11		0.82	0.44	1.19	0.62	1	3
554	12 59 33.397	-01 18 45.10		1.40	0.74	1.40	0.72	4	4
555	12 59 56.421	+21 15 31.47	12599+2115	0.76	0.38	1.67	0.81	1	5
556	13 00 50.925	+49 08 25.88		1.19	0.64	1.33	0.74	3	4
557	13 02 13.485	-02 09 17.52	13022-0209	0.44	0.48	1.79	1.00	1	6
558	13 02 35.868	+67 25 02.53		0.57	0.31	1.06	0.55	0	2
559	13 03 47.026	+08 07 07.77	13038+0807	1.13	0.53	1.38	0.67	3	4
560	13 04 20.911	-02 39 21.87		1.10	0.56	1.09	0.56	3	3
561	13 04 26.467	+04 39 13.32		0.84	0.44	1.43	0.74	1	4
562	13 04 59.411	+21 38 57.51	13050+2139	0.97	0.48	1.00	0.52	2	2
563	13 05 41.827	+05 36 59.22	13057+0537	0.68	0.43	1.21	0.68	1	3
564	13 08 19.147	+20 07 31.00		0.93	0.46	1.07	0.53	2	2
565	13 08 20.412	+51 30 16.57		1.25	0.67	1.33	0.68	3	4
566	13 09 12.377	+40 12 33.44	13092+4013	1.28	0.67	1.37	0.75	3	4
567	13 09 24.050	+31 14 07.03		1.12	0.60	1.54	0.87	3	5
568	13 09 29.939	+62 16 11.83	13095+6216	1.00	0.57	1.64	0.91	2	5
569	13 09 50.736	+61 13 22.64	13098+6113	0.76	0.40	1.33	0.69	1	4
570	13 10 48.328	+02 51 44.04		0.45	0.37	0.52	0.37	0	0
571	13 12 34.238	+21 20 47.03		1.26	0.68	1.79	0.92	3	6
572	13 13 53.587	+01 02 15.44	13139+0102	0.86	0.48	1.72	0.95	2	6
573	13 14 10.914	+02 38 39.78	13142+0238	0.75	0.40	0.81	0.46	1	1
574	13 14 26.289	+26 58 01.24		0.80	0.44	0.72	0.42	1	1
575	13 15 20.870	+37 40 37.84		0.80	0.42	1.30	0.68	1	4
576	13 15 25.145	+10 18 38.37	13155+3204	1.38	0.75	1.39	0.75	4	4
577	13 15 24.973	+32 03 27.15	13154+1019	1.13	0.62	1.32	0.71	3	4
578	13 15 45.507	+00 29 25.32		1.09	0.60	1.38	0.79	3	4
579	13 15 49.088	+42 51 25.87	13158+4251	0.70	0.39	0.97	0.53	1	2
580	13 16 08.293	+03 19 25.82		1.21	0.60	1.24	0.63	3	3
581	13 16 17.526	+12 02 05.15		1.09	0.52	1.15	0.56	2	3
582	13 16 24.631	-01 33 45.32	13164-0134	0.65	0.40	0.89	0.53	1	2
583	13 17 10.769	+31 23 51.88	13171+3124	0.74	0.40	1.65	0.91	1	5
584	13 18 24.241	+43 48 05.63		1.11	0.58	1.45	0.78	3	4
585	13 18 47.581	+26 16 48.83		0.93	0.52	1.54	0.83	2	5
586	13 19 44.750	+10 17 30.80	13197+1018	0.96	0.50	1.30	0.68	2	4
587	13 21 21.567	+11 18 19.10		1.20	0.68	1.07	0.60	3	3
588	13 21 54.102	+62 50 30.18	13219+6250	0.91	0.45	1.30	0.65	2	3
589	13 22 03.713	+19 35 48.67		0.69	0.33	0.77	0.36	0	1
590	13 23 31.876	+44 29 49.24	13235+4430	1.06	0.58	1.23	0.65	3	3
591	13 24 28.120	+08 16 25.37		0.98	0.45	1.49	0.71	2	4
592	13 25 33.378	+01 46 33.69	13250+0146	0.64	0.36	1.22	0.67	0	3
593	13 26 10.098	+03 27 51.36	13262+0328	0.94	0.49	1.00	0.51	2	2
594	13 26 41.305	+25 45 29.54	13267+2545	0.64	0.39	0.75	0.42	1	1
595	13 27 22.035	+46 28 01.33		0.66	0.35	1.34	0.67	0	4
596	13 27 46.143	+48 27 36.07		1.08	0.55	1.22	0.61	3	3
597	13 29 15.404	+02 12 06.84		0.51	0.25	1.22	0.61	0	3
598	13 31 06.966	+66 30 55.71		1.07	0.63	1.34	0.73	3	4
599	13 31 11.568	+53 53 44.49		0.73	0.49	1.11	0.51	1	2
600	13 32 25.746	+59 02 41.99		0.83	0.50	1.24	0.69	2	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
601	13 33 21.666	+35 58 04.83	13334+3558	0.82	0.45	1.01	0.54	1	2
602	13 34 01.606	+47 14 58.78		1.19	0.62	1.51	0.79	3	5
603	13 34 58.977	+22 29 35.22	13350+2230	1.39	0.75	1.69	0.93	4	5
604	13 35 45.012	+11 23 47.40		0.64	0.34	0.99	0.52	0	2
605	13 35 57.389	+39 24 26.12	13360+3925	0.88	0.48	1.23	0.69	2	3
606	13 36 04.608	+07 39 07.80		1.44	0.79	1.54	0.83	4	5
607	13 36 52.788	+16 21 34.06	13369+1622	1.53	0.79	1.62	0.85	5	5
608	13 37 42.053	-00 57 13.51		1.44	0.81	1.53	0.86	4	5
609	13 37 58.269	+44 22 33.84		0.93	0.48	1.06	0.54	2	2
610	13 38 45.958	+39 27 14.26	13388+3928	1.32	0.70	1.36	0.69	4	4
611	13 39 30.618	+51 52 06.51		0.64	0.37	1.36	0.75	0	4
612	13 39 43.666	+33 16 23.39		1.05	0.54	1.40	0.74	2	4
613	13 42 25.922	+21 20 30.00	13425+2121	0.58	0.34	0.69	0.39	0	1
614	13 43 26.676	+36 24 33.23		0.88	0.46	1.15	0.60	2	3
615	13 45 51.188	+41 57 20.32	13459+4157	0.61	0.33	0.60	0.34	0	0
616	13 47 31.591	+10 18 10.88		0.50	0.28	1.09	0.57	0	3
617	13 48 03.147	+52 44 49.80	13480+5245	0.64	0.34	1.34	0.73	0	4
618	13 48 04.126	+02 04 29.41		1.13	0.55	1.25	0.60	3	3
619	13 49 20.763	+37 48 27.96	13494+3748	0.49	0.28	0.79	0.43	0	1
620	13 51 41.723	+33 33 13.80	13517+3334	0.79	0.41	1.22	0.64	1	3
621	13 51 43.166	+17 22 06.77		1.40	0.74	1.41	0.74	4	4
622	13 53 17.783	+04 12 43.51	13533+0413	1.46	0.80	1.49	0.80	4	5
623	13 53 38.734	-08 11 32.58		0.61	0.25	1.37	0.71	0	4
624	13 53 50.380	+23 03 03.72	13538+2303	0.96	0.49	1.29	0.68	2	4
625	13 54 00.209	+12 58 18.58		0.65	0.39	1.25	0.71	1	4
626	13 54 59.952	+42 14 40.54		1.10	0.55	1.22	0.60	3	3
627	13 55 23.688	+07 42 28.84		1.17	0.60	1.17	0.60	3	3
628	13 56 51.048	+46 48 03.48		1.00	0.52	0.96	0.51	2	2
629	13 57 00.858	+01 55 39.51		1.11	0.58	1.13	0.59	3	3
630	14 01 35.775	+23 56 51.51		0.05	0.69	1.44	0.70	0	4
631	14 03 13.979	+16 54 22.17		0.94	0.51	1.27	0.67	2	3
632	14 03 17.273	-01 56 15.93		1.04	0.50	1.83	0.93	2	6
633	14 03 30.181	+29 16 44.32		1.17	0.67	1.20	0.66	3	3
634	14 04 05.597	+50 57 17.17		0.93	0.55	1.11	0.62	2	3
635	14 04 26.297	-12 03 37.74		1.77	0.91	1.93	1.02	5	6
636	14 06 16.758	-03 12 09.10		0.88	0.44	1.04	0.47	1	2
637	14 06 19.970	+01 27 52.30		1.35	0.66	1.56	0.77	4	5
638	14 07 21.940	+13 20 47.60	14073+1321	1.31	0.68	1.33	0.69	4	4
639	14 09 32.034	+30 35 07.09		1.01	0.75	1.23	0.70	3	4
640	14 10 05.386	+09 02 22.32	14101+0902	1.38	0.76	1.48	0.79	4	4
641	14 10 09.837	+23 54 18.56		0.94	0.50	1.10	0.63	2	3
642	14 10 41.467	+01 05 06.25	14107+0105	1.08	0.53	1.90	0.99	2	6
643	14 10 47.119	-02 20 47.68	14108-0221	1.05	0.56	1.48	0.84	2	5
644	14 11 30.207	+49 48 22.19		0.52	0.30	0.81	0.48	0	2
645	14 12 45.650	+11 59 03.01		0.94	0.51	1.04	0.58	2	3
646	14 13 55.160	+28 58 26.62		1.17	0.66	1.21	0.60	3	3
647	14 16 02.256	+04 06 05.85		1.31	0.74	1.28	0.77	4	4
648	14 16 47.283	+04 58 09.16		1.53	0.82	1.63	0.87	5	5
649	14 17 07.254	+38 57 37.87		0.91	0.51	1.46	0.86	2	5
650	14 19 47.133	+05 09 30.20		0.87	0.44	1.42	0.69	1	4

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
651	14 22 55.200	+06 30 30.40	14229+0631	0.89	0.47	1.08	0.55	2	2
652	14 23 09.597	+48 11 22.60		0.66	0.41	0.86	0.42	1	1
653	14 24 17.204	+25 20 51.64	14243+2521	1.10	0.61	1.39	0.78	3	4
654	14 25 58.619	+32 28 07.44		0.82	0.44	1.19	0.63	1	3
655	14 27 06.132	+13 33 51.46		0.82	0.43	1.49	0.79	1	4
656	14 28 30.342	+05 24 55.93		1.43	0.77	1.25	0.69	4	4
657	14 28 36.244	-03 41 04.20		0.86	0.46	1.31	0.71	1	4
658	14 30 03.438	+25 28 23.03		0.61	0.33	0.60	0.31	0	0
659	14 30 17.852	+14 44 37.68		0.72	0.39	1.25	0.68	1	3
660	14 30 30.956	-00 18 15.18		0.46	0.34	0.91	0.46	0	2
661	14 31 17.751	+49 10 29.02	14313+4910	0.58	0.35	0.65	0.34	0	0
662	14 32 24.015	+05 06 59.74		0.80	0.41	1.20	0.65	1	3
663	14 32 31.981	+38 57 59.31		0.65	0.36	0.90	0.55	0	2
664	14 32 47.065	+36 39 20.24	14328+3639	1.41	0.80	1.50	0.83	4	5
665	14 33 07.583	+34 07 45.90		0.56	0.39	0.52	0.39	0	0
666	14 33 35.532	+48 31 27.74		1.30	0.64	1.61	0.80	3	5
667	14 33 43.272	+23 59 47.88		0.98	0.48	1.29	0.63	2	3
668	14 33 53.315	+60 19 45.17	14339+6019	1.08	0.63	1.53	0.89	3	5
669	14 34 28.327	+10 27 48.09		0.51	0.31	0.61	0.34	0	0
670	14 35 45.213	+39 33 58.21		1.18	0.61	1.63	0.85	3	5
671	14 37 16.896	+07 05 56.75		0.96	0.55	1.43	0.79	2	4
672	14 37 50.946	+58 50 33.50	14379+5851	0.97	0.52	1.22	0.66	2	3
673	14 38 54.342	+17 07 10.83	14389+1707	1.45	0.80	1.65	0.87	4	5
674	14 41 12.936	+00 36 59.63		0.57	0.26	1.18	0.64	0	3
675	14 41 27.551	+01 56 16.43	14414+0156	1.45	0.79	1.57	0.87	4	5
676	14 42 13.679	-03 12 56.17		0.52	0.33	1.41	0.82	0	4
677	14 43 08.717	-04 49 33.19		0.98	0.51	0.90	0.50	2	2
678	14 43 36.436	+44 13 28.10		1.03	0.54	1.19	0.64	2	3
679	14 44 23.483	+24 53 51.23	14444+2454	0.72	0.40	1.06	0.55	1	2
680	14 44 52.572	+10 17 29.12	14449+1018	0.68	0.34	1.53	0.81	0	5
681	14 44 58.900	+01 35 44.78	14450+0136	0.61	0.32	1.48	0.76	0	4
682	14 46 16.004	+42 53 09.46	14463+4253	1.09	0.57	1.38	0.73	3	4
683	14 46 37.802	+45 27 33.17	14466+4528	0.90	0.48	1.30	0.67	2	4
684	14 46 56.229	+34 18 48.82		1.36	0.71	1.34	0.70	4	4
685	14 47 03.712	+14 56 20.53	14471+1456	1.40	0.71	1.63	0.85	4	5
686	14 47 59.476	+21 10 03.66		0.82	0.45	1.39	0.76	1	4
687	14 48 40.969	+27 28 07.89		1.12	0.62	1.08	0.57	3	3
688	14 49 29.751	+14 44 20.23	14495+1445	0.94	0.46	1.21	0.62	2	3
689	14 49 38.729	+18 40 21.35	14496+1840	0.54	0.32	1.49	0.76	0	4
690	14 50 31.365	+11 07 10.69		1.51	0.80	1.68	0.88	5	5
691	14 51 53.418	+11 28 16.27		0.92	0.49	1.55	0.84	2	5
692	14 51 53.856	-06 04 54.31		1.56	0.89	1.93	1.02	5	6
693	14 52 20.364	+38 28 31.18		0.91	0.49	1.47	0.82	2	5
694	14 52 25.115	+15 33 12.57		0.83	0.23	1.27	0.48	0	3
695	14 53 26.534	+52 41 06.54		1.01	0.50	1.18	0.59	2	3
696	14 54 16.415	+25 42 05.03		0.98	0.51	1.14	0.62	2	3
697	14 55 09.759	+25 56 52.40		1.48	0.80	1.74	0.95	4	6
698	14 56 00.419	+40 35 44.35		1.49	0.80	1.45	0.83	4	5
699	14 56 20.074	+29 41 00.55		1.05	0.56	1.10	0.60	2	3
700	14 56 21.210	+05 48 24.69		1.13	0.66	1.17	0.68	3	3

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
701	14 56 21.363	+11 03 18.04		0.77	0.41	1.59	0.92	1	5
702	14 58 17.647	+18 16 20.76		0.96	0.48	1.23	0.63	2	3
703	14 59 16.468	-00 24 00.86	14593-0024	1.17	0.64	1.30	0.70	3	4
704	14 59 20.706	+23 05 40.86		1.19	0.61	1.55	0.80	3	5
705	15 01 08.004	+13 59 25.42		0.84	0.39	1.17	0.55	1	3
706	15 02 06.799	+26 56 46.31	15021+2656	0.60	0.33	1.22	0.64	0	3
707	15 02 24.152	+08 40 24.22		1.03	0.46	1.70	0.80	2	5
708	15 04 10.522	+02 15 13.75		0.95	0.50	1.10	0.58	2	3
709	15 04 12.984	+35 52 14.05		0.50	0.28	0.53	0.29	0	0
710	15 05 54.987	+51 58 35.21		0.85	0.44	1.17	0.66	1	3
711	15 07 53.823	+00 20 33.70		0.51	0.30	0.87	0.48	0	2
712	15 08 01.746	+43 54 40.11		0.87	0.45	1.23	0.64	1	3
713	15 08 43.716	+06 46 35.52	15087+0646	1.14	0.58	1.40	0.77	3	4
714	15 10 55.495	+05 59 02.81		0.90	0.47	1.21	0.64	2	3
715	15 14 05.087	+04 01 44.54	15140+0401	0.65	0.36	0.78	0.44	0	1
716	15 16 02.682	+55 55 27.76		1.22	0.68	1.63	0.89	3	5
717	15 17 03.019	+23 49 52.31		-0.60	2.16	1.55	0.81	1	5
718	15 18 11.196	+26 42 14.19		1.45	0.78	1.34	0.69	4	4
719	15 19 29.160	+52 47 41.67	15195+5248	0.85	0.45	1.09	0.57	1	3
720	15 19 39.461	+36 46 07.60		0.82	0.47	0.85	0.48	1	2
721	15 20 25.749	+48 39 34.59		0.67	0.37	0.92	0.55	1	2
722	15 21 35.026	+04 37 01.07		-0.16	1.58	0.89	0.47	2	2
723	15 22 15.293	+12 06 24.15	15223+1206	0.68	0.42	0.89	0.51	1	2
724	15 22 21.118	+54 08 00.18	15224+5408	1.00	0.50	1.33	0.67	2	4
725	15 24 09.577	+06 16 23.96	15242+0616	0.63	0.33	1.35	0.71	0	4
726	15 25 48.086	+47 03 03.19	15258+4703	0.97	0.52	1.09	0.60	2	3
727	15 26 09.221	+02 21 20.82	15262+0221	0.63	0.33	0.83	0.45	0	1
728	15 26 17.379	+07 03 13.96		1.49	0.85	1.58	0.85	5	5
729	15 27 49.296	+11 54 12.27		0.59	0.30	1.64	0.86	0	5
730	15 27 49.151	+09 19 13.96	15278+1154	0.84	0.44	0.94	0.51	1	2
731	15 29 37.204	+58 20 56.82	15290+5820	0.64	0.37	1.38	0.74	0	4
732	15 30 36.039	+03 02 57.15		1.05	0.56	1.22	0.63	2	3
733	15 30 47.247	+29 13 28.35		0.90	0.46	1.24	0.66	2	3
734	15 31 25.806	+26 46 15.25		0.84	0.47	1.38	0.78	2	4
735	15 32 33.841	+19 03 13.09	15326+1903	0.77	0.40	0.95	0.47	1	2
736	15 33 36.343	-01 24 59.57	15336-0125	1.34	0.75	1.49	0.84	4	5
737	15 33 57.559	+26 09 55.15	15340+2610	0.63	0.36	0.94	0.55	0	2
738	15 34 55.826	+11 15 30.15	15349+1115	0.87	0.43	1.28	0.66	1	3
739	15 35 08.351	+08 36 28.59		0.57	0.31	0.91	0.51	0	2
740	15 35 16.055	+49 14 11.67	15353+4914	1.20	0.80	1.23	0.80	4	4
741	15 35 50.985	+16 11 00.64		0.88	0.48	1.12	0.57	2	3
742	15 36 05.421	+10 54 26.42		1.11	0.57	1.52	0.79	3	4
743	15 36 27.002	+47 38 21.68		1.35	0.71	1.53	0.83	4	5
744	15 36 44.096	+23 53 03.28		1.15	0.61	1.34	0.72	3	4
745	15 37 37.409	+13 52 24.63		0.66	0.35	0.75	0.37	0	1
746	15 37 42.671	+40 54 49.96	15377+4055	0.75	0.38	0.84	0.42	1	1
747	15 38 08.160	+39 18 14.84	15381+3918	0.73	0.41	1.34	0.74	1	4
748	15 38 24.738	+41 15 49.62		0.51	0.27	1.07	0.56	0	2
749	15 38 46.635	+19 34 09.72		1.04	0.58	1.41	0.77	3	4
750	15 40 44.639	+07 41 26.82	15407+0741	0.57	0.33	0.61	0.35	0	0

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
751	15 42 24.413	+06 19 54.16		1.12	0.46	1.39	0.68	2	4
752	15 42 43.617	+16 53 14.71	15427+1653	1.21	0.67	1.52	0.83	3	5
753	15 43 53.789	+44 21 46.70	15439+4422	0.96	0.49	1.10	0.59	2	3
754	15 45 29.227	+15 42 51.27	15455+1543	1.08	0.57	1.27	0.69	3	4
755	15 46 52.545	+59 09 46.09	15468+5910	1.45	0.75	1.45	0.75	4	4
756	15 49 26.231	+10 34 03.31		0.73	0.41	0.69	0.39	1	1
757	15 49 47.136	+10 07 42.29		1.11	0.45	1.21	0.63	2	3
758	15 50 23.370	+48 56 32.37		0.91	0.44	1.27	0.63	2	3
759	15 50 24.993	+35 51 31.42	15504+3552	0.92	0.47	1.11	0.54	2	3
760	15 50 34.397	+19 08 52.24	15506+1909	0.88	0.44	1.30	0.71	2	4
761	15 50 41.622	+51 55 07.84		1.05	0.54	1.29	0.66	2	3
762	15 52 16.694	+54 01 55.53		1.27	0.59	1.39	0.67	3	4
763	15 53 45.955	+17 26 29.92		0.70	0.41	0.97	0.68	1	3
764	15 54 00.477	+15 18 36.82		0.97	0.54	1.16	0.61	2	3
765	15 55 26.034	+38 54 25.50	15554+3854	0.90	0.48	1.01	0.52	2	2
766	15 56 13.286	+41 00 00.98	15562+4100	0.76	0.45	0.93	0.52	1	2
767	15 57 08.438	-00 06 49.39		0.91	0.51	1.13	0.63	2	3
768	16 00 00.756	+02 10 50.67		0.90	0.49	1.28	0.67	2	3
769	16 00 10.323	+38 30 42.74		1.15	0.58	1.26	0.67	3	3
770	16 01 01.498	+10 28 59.88	16010+1029	0.98	0.49	1.19	0.57	2	3
771	16 02 00.981	+08 11 55.63	16020+0812	1.21	0.63	1.48	0.82	3	5
772	16 03 19.423	+26 10 41.71		1.34	0.70	1.38	0.90	4	5
773	16 04 28.059	+23 16 43.05	16045+2317	0.95	0.52	1.21	0.68	2	3
774	16 05 32.974	+55 03 33.42		0.84	0.47	1.18	0.63	2	3
775	16 06 28.601	+29 27 50.64		0.89	0.48	1.27	0.69	2	4
776	16 10 10.808	+01 05 37.26		1.07	0.52	1.32	0.66	2	4
777	16 12 10.758	+04 23 13.74		0.58	0.35	0.91	0.51	0	2
778	16 12 52.739	+56 12 55.88	16128+5613	0.91	0.43	1.05	0.48	2	2
779	16 14 10.128	+03 17 23.35		0.58	0.30	1.33	0.72	0	4
780	16 15 21.575	+32 38 28.40	16153+3238	0.81	0.45	0.99	0.55	1	2
781	16 18 12.669	+09 10 21.76		1.28	0.70	1.27	0.72	4	4
782	16 19 25.790	+38 54 05.80		1.55	0.82	1.64	0.87	5	5
783	16 19 34.627	+21 27 28.08	16196+2128	1.05	0.50	1.29	0.65	2	3
784	16 19 59.172	+29 26 44.32		1.30	0.63	1.44	0.72	3	4
785	16 21 24.919	+16 59 07.35	16214+1659	1.18	0.59	1.42	0.74	3	4
786	16 23 28.454	+34 03 49.67		0.66	0.38	1.06	0.60	1	3
787	16 25 22.338	+13 52 49.02	16254+1353	1.03	0.55	1.32	0.67	2	4
788	16 25 32.352	+27 04 54.36		1.40	0.72	1.61	0.85	4	5
789	16 26 18.066	+20 04 45.71	16263+2005	0.94	0.46	1.24	0.60	2	3
790	16 27 08.304	+54 57 13.35		1.14	0.60	1.30	0.70	3	4
791	16 27 31.392	-06 08 52.63		1.29	0.64	1.47	0.74	3	4
792	16 27 50.606	-04 12 47.80		0.78	0.44	1.01	0.51	1	2
793	16 28 08.009	+38 25 24.09		0.87	0.47	1.68	0.96	2	5
794	16 29 29.766	+26 31 54.07	16295+2632	1.13	0.59	1.17	0.63	3	3
795	16 30 34.154	+08 13 50.16		0.89	0.55	1.57	0.89	2	5
796	16 30 47.196	-00 35 15.45		1.03	0.58	1.21	0.66	3	3
797	16 30 55.074	+32 19 18.27		0.70	0.39	0.65	0.37	1	1
798	16 31 09.250	+16 01 10.59	16311+1601	1.10	0.59	1.45	0.78	3	4
799	16 31 53.565	+54 34 47.81		1.13	0.57	1.42	0.72	3	4
800	16 32 12.513	+15 42 03.81	16322+1542	1.39	0.70	1.56	0.82	4	5

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
801	16 32 21.388	+43 43 44.88		0.95	0.57	1.27	0.69	2	4
802	16 32 40.282	+30 16 29.69		0.83	0.42	1.36	0.59	1	3
803	16 32 42.568	+11 15 02.50		0.61	0.36	0.87	0.49	0	2
804	16 32 41.805	+37 52 24.86		1.39	0.76	1.40	0.77	4	4
805	16 33 50.620	+56 26 03.50		0.63	0.49	0.89	0.49	1	2
806	16 34 41.648	+11 46 24.09		0.94	0.51	1.37	0.70	2	4
807	16 35 32.602	+54 03 15.89	16355+5403	1.11	0.58	1.21	0.66	3	3
808	16 35 57.570	+11 29 50.28		0.88	0.46	1.47	0.77	2	4
809	16 38 23.932	+32 20 41.83	16384+3221	0.67	0.37	0.78	0.44	1	1
810	16 39 29.600	+22 17 10.92		1.54	0.86	1.53	0.88	5	5
811	16 39 53.307	+42 26 15.44	16398+4226	1.31	0.75	1.55	0.89	4	5
812	16 40 26.232	+05 23 45.30		0.79	0.40	1.09	0.57	1	3
813	16 42 54.279	+40 27 33.78		0.83	0.43	2.07	1.17	1	7
814	16 44 34.946	+30 22 44.95		0.68	0.40	0.94	0.52	1	2
815	16 46 17.702	-07 02 27.93		0.70	0.32	1.21	0.58	0	3
816	16 46 20.893	+44 20 00.15	16463+4420	0.83	0.45	1.18	0.63	1	3
817	16 48 51.501	+46 18 48.80		1.28	0.66	1.37	0.68	3	4
818	16 50 07.990	+22 55 47.13		0.81	0.42	1.01	0.52	1	2
819	16 50 10.314	+16 23 58.68		1.41	0.71	1.50	0.76	4	4
820	16 50 34.970	-07 32 00.70		0.63	0.27	1.18	0.59	0	3
821	16 52 19.252	+46 55 42.43		0.98	0.53	1.17	0.60	2	3
822	16 52 24.055	+18 47 07.83		1.07	0.57	1.21	0.67	3	3
823	16 52 56.188	+24 45 44.18		0.99	0.48	1.36	0.66	2	4
824	16 53 27.364	+48 47 48.34		0.86	0.42	1.15	0.59	1	3
825	16 54 08.158	+22 19 54.61		1.11	0.27	0.96	0.53	1	2
826	16 54 22.595	+46 49 42.32		0.83	0.44	1.11	0.60	1	3
827	16 54 29.526	+40 49 39.10		1.36	0.74	1.58	0.87	4	5
828	16 54 29.644	+45 11 07.46		1.50	0.74	1.73	0.91	4	5
829	16 55 05.029	+37 45 46.44	16551+3746	1.00	0.46	1.25	0.66	2	3
830	16 55 47.532	+27 15 31.87		1.11	0.59	1.33	0.70	3	4
831	16 57 17.327	+73 13 52.03	16573+7314	0.95	0.34	1.23	0.62	1	3
832	16 58 12.120	+21 08 36.16		0.82	0.44	1.25	0.70	1	4
833	16 59 26.286	+39 38 27.84		1.13	0.58	1.33	0.70	3	4
834	17 06 31.172	+31 25 47.06		1.46	0.77	1.50	0.82	4	5
835	17 09 38.422	+10 12 44.28		0.80	0.43	0.81	0.40	1	1
836	17 15 38.323	+35 46 43.59	17156+3547	0.50	0.27	0.75	0.40	0	1
837	17 15 54.879	+57 31 36.08		1.21	0.69	1.28	0.80	3	4
838	17 18 51.848	+72 40 55.07		0.80	0.43	0.95	0.52	1	2
839	17 20 19.435	+40 01 32.70	17203+4001	1.21	0.61	1.54	0.82	3	5
840	17 21 07.174	+00 34 01.72		0.55	0.23	0.95	0.45	0	2
841	17 22 30.469	+29 28 27.87	17225+2928	1.03	0.56	1.31	0.69	2	4
842	17 26 12.325	+36 04 01.51	17262+3604	1.18	0.62	1.39	0.72	3	4
843	17 26 51.583	+43 41 00.27		1.27	0.69	1.71	1.01	4	6
844	17 41 32.747	+67 47 04.45		0.63	0.38	1.43	0.80	1	4
845	17 42 23.837	+46 57 17.71	17424+4657	0.75	0.41	0.92	0.49	1	2
846	17 43 41.118	+58 42 10.51	17437+5842	0.77	0.31	0.82	0.34	1	1
847	17 47 19.953	+52 18 12.39		1.20	0.66	1.74	0.94	3	6
848	17 50 39.030	+45 46 55.44	17506+4547	1.05	0.76	1.08	0.73	3	3
849	17 51 44.628	+61 18 22.52		0.56	0.30	1.50	0.82	0	5
850	17 52 42.849	+65 39 40.44	17527+6540	0.57	0.26	0.78	0.36	0	1

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
851	17 53 21.717	+64 32 16.48		-0.95	1.84	1.18	0.66	0	3
852	17 53 45.210	+39 51 39.80	17538+3951	0.61	0.31	1.30	0.66	0	4
853	17 55 35.561	+54 57 52.55		0.75	0.40	1.08	0.58	1	3
854	18 01 57.541	+65 07 58.95		0.56	0.32	1.43	0.75	0	4
855	18 09 43.394	+43 33 47.17		1.21	0.62	1.12	0.58	3	3
856	18 25 20.204	+63 49 28.47	18254+6349	1.04	0.51	1.18	0.61	2	3
857	18 27 04.744	+77 26 00.14		1.16	0.56	1.30	0.65	3	3
858	18 40 55.599	+42 04 00.04	18409+4204	2.39	1.29	2.31	1.31	8	8
859	18 49 47.714	+41 45 36.91	18498+4145	0.59	0.26	0.94	0.46	0	2
860	19 14 48.269	+79 28 38.19	19148+7929	0.96	0.46	1.03	0.50	2	2
861	19 24 35.695	+36 22 33.07	19246+3623	0.73	0.39	1.15	0.59	1	3
862	20 28 15.585	-20 48 00.60		0.58	0.33	1.42	0.72	0	4
863	20 28 46.277	+15 14 15.45	20288+1514	1.03	0.62	1.00	0.62	3	3
864	20 36 34.339	-06 21 52.91		0.72	0.40	1.05	0.56	1	2
865	20 41 39.042	-06 46 21.44		0.85	0.34	1.24	0.76	1	4
866	20 48 04.424	+00 53 26.42		0.69	0.38	0.63	0.36	1	0
867	20 49 57.678	+14 31 31.33		1.17	0.61	1.61	0.90	3	5
868	20 50 45.997	+17 02 18.75		0.91	0.42	0.86	0.38	1	1
869	20 52 20.068	-03 24 29.46		0.68	0.37	1.44	0.80	1	4
870	20 56 23.391	+04 22 19.86		1.36	0.69	1.42	0.76	4	4
871	20 58 18.403	-10 50 12.03		1.12	0.56	1.46	0.75	3	4
872	20 58 29.028	+25 47 47.77		0.71	0.33	1.28	0.64	0	3
873	20 58 59.463	-13 10 47.05		1.25	0.72	1.44	0.82	4	4
874	21 00 29.173	-06 41 42.27		0.72	0.41	0.97	0.51	1	2
875	21 01 30.577	-01 15 49.95		0.47	0.27	0.60	0.32	0	0
876	21 01 46.026	+07 56 43.76		0.73	0.37	1.10	0.60	1	3
877	21 01 58.366	+04 36 18.81		0.79	0.42	1.06	0.56	1	2
878	21 03 21.071	-00 49 51.61		1.17	0.62	1.34	0.74	3	4
879	21 05 09.956	+15 59 35.19	21052+1600	0.95	0.36	1.74	0.75	1	5
880	21 05 46.726	-01 11 32.69		0.93	0.47	1.12	0.56	2	3
881	21 07 22.595	-10 56 53.82		1.33	0.68	1.40	0.72	4	4
882	21 08 22.171	+16 05 26.24		0.99	0.51	1.39	0.71	2	4
883	21 09 32.450	-04 36 40.62		0.83	0.47	1.50	0.88	1	5
884	21 14 41.674	+09 06 38.78		0.48	0.28	0.58	0.28	0	0
885	21 16 07.895	+08 50 51.73		0.64	0.34	1.65	0.87	0	5
886	21 16 25.970	+11 27 33.70		1.12	0.58	1.45	0.75	3	4
887	21 19 39.065	+02 55 59.34		0.64	0.38	0.85	0.52	1	2
888	21 22 07.593	-05 35 38.22		0.86	0.42	1.04	0.52	1	2
889	21 22 34.317	+09 00 03.70		1.38	0.72	1.58	0.85	4	5
890	21 22 57.315	-04 22 56.08		1.15	0.62	1.43	0.86	3	5
891	21 23 22.714	-05 45 33.26		1.76	0.91	1.82	1.00	5	6
892	21 24 11.503	+04 21 53.00		1.47	0.79	1.40	0.67	4	4
893	21 24 39.974	-17 37 01.48		1.07	0.57	1.13	0.59	3	3
894	21 24 49.930	+23 20 52.04		1.35	0.72	1.39	0.75	4	4
895	21 25 54.752	+20 16 51.57		1.11	0.64	1.17	0.54	3	3
896	21 26 18.516	+28 14 03.31		0.86	0.36	1.51	0.73	1	4
897	21 27 09.552	+07 32 29.63	21272+0732	-0.73	1.17	0.46	0.29	0	0
898	21 27 40.153	+04 54 57.62		1.06	0.54	1.68	0.83	2	5
899	21 28 59.880	+18 00 02.58		1.29	0.60	1.49	0.75	3	4
900	21 30 30.309	-03 55 32.20		1.39	0.69	1.62	0.83	4	5

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
901	21 31 52.181	+09 07 39.77		1.37	0.72	1.47	0.69	4	4
902	21 33 51.983	+11 38 36.10		1.44	0.75	1.72	0.91	4	5
903	21 33 53.831	+16 42 01.35		1.13	0.61	1.61	0.87	3	5
904	21 35 15.252	+02 02 21.68		1.02	0.55	1.46	0.79	2	4
905	21 35 55.677	+11 04 55.05		1.11	0.52	1.62	0.83	2	5
906	21 37 15.773	+22 29 33.85		1.45	0.80	1.65	0.92	4	5
907	21 39 28.865	+05 34 24.62		1.19	0.64	1.06	0.64	3	3
908	21 39 49.173	+23 16 47.92		0.97	0.55	1.17	0.63	2	3
909	21 40 33.765	-00 22 30.65		0.78	0.41	1.03	0.56	1	2
910	21 42 06.629	-02 03 39.46		0.97	0.50	1.31	0.69	2	4
911	21 42 28.010	+03 41 52.03		1.17	0.59	1.38	0.76	3	4
912	21 44 46.516	-01 29 15.31		0.84	0.45	0.66	0.37	1	1
913	21 46 12.124	+04 22 46.66		0.58	0.41	0.74	0.47	1	1
914	21 46 54.076	+29 06 57.18		0.99	0.50	1.12	0.62	2	3
915	21 47 35.126	+04 31 15.77		0.99	0.51	1.08	0.59	2	3
916	21 47 39.086	+23 29 37.47		0.52	0.32	1.04	0.58	0	3
917	21 47 41.715	+27 40 24.92		0.59	0.29	1.17	0.62	0	3
918	21 53 21.743	+02 29 41.18		1.78	0.89	1.87	0.97	5	6
919	21 54 44.495	+26 43 04.19		1.09	0.58	1.30	0.73	3	4
920	21 56 31.987	-02 07 34.39		0.90	0.43	1.41	0.72	1	4
921	21 58 17.682	+15 21 11.06		1.30	0.66	1.32	0.71	4	4
922	22 00 38.912	+03 24 09.04		0.81	0.50	1.13	0.64	2	3
923	22 03 19.245	-03 43 39.42		0.65	0.28	0.99	0.46	0	2
924	22 04 44.238	+43 12 07.22		1.15	0.60	1.30	0.79	3	4
925	22 05 25.765	+43 54 13.78		0.76	0.30	0.89	0.37	0	1
926	22 06 43.618	+13 25 42.59	22067+1326	0.75	0.40	1.05	0.56	1	2
927	22 07 27.633	-07 48 32.95	22075-0748	0.71	0.38	1.09	0.58	1	3
928	22 07 57.927	+17 09 14.66		0.61	0.35	0.90	0.50	0	2
929	22 08 23.004	-00 00 27.05	22084-0001	1.31	0.66	1.45	0.65	4	4
930	22 08 24.186	+17 21 00.96		0.85	0.45	0.80	0.44	1	1
931	22 11 08.331	+05 08 14.67		0.71	0.37	1.51	0.79	1	4
932	22 15 18.268	+00 14 50.35	22153+0015	1.17	0.60	1.27	0.62	3	3
933	22 15 24.100	+23 40 28.48		0.77	0.38	1.62	0.78	1	5
934	22 15 33.364	+40 28 19.70		1.12	0.57	1.33	0.71	3	4
935	22 17 10.877	+20 06 00.39		0.53	0.26	0.70	0.37	0	1
936	22 17 17.174	+06 12 08.30		0.84	0.39	0.97	0.49	1	2
937	22 18 29.069	+02 28 47.70		0.65	0.39	0.88	0.51	1	2
938	22 19 08.377	+04 01 12.90		0.92	0.48	1.18	0.60	2	3
939	22 20 50.446	+26 33 29.24		1.21	0.66	1.56	0.86	3	5
940	22 21 21.759	+09 20 23.56		0.48	0.28	0.74	0.41	0	1
941	22 21 37.425	+28 55 59.33		-0.38	0.87	1.03	0.51	0	2
942	22 22 39.308	+17 17 23.02		0.98	0.53	1.16	0.62	2	3
943	22 24 43.575	+03 55 56.59		1.25	0.67	1.27	0.64	3	3
944	22 25 36.840	+19 37 13.74		1.04	0.62	1.28	0.65	3	3
945	22 30 59.617	-07 50 17.01		1.29	0.69	1.56	0.85	4	5
946	22 32 07.260	+31 01 33.20		0.69	0.36	0.87	0.42	1	1
947	22 34 01.993	+08 01 43.92		0.54	0.25	0.89	0.43	0	1
948	22 36 53.409	+28 34 17.07		0.86	0.50	1.10	0.63	2	3
949	22 41 57.964	-01 17 57.75		0.85	0.49	0.93	0.53	2	2
950	22 41 58.931	+22 03 53.54	22420+2204	1.20	0.67	1.35	0.75	3	4

Table 2 continues on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (continued). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
951	22 43 35.903	+16 54 27.59		0.69	0.32	1.32	0.65	0	4
952	22 44 04.810	+16 40 55.74		1.08	0.57	1.21	0.59	3	3
953	22 44 19.973	+23 18 13.63	22443+2318	1.44	0.79	1.43	0.80	4	4
954	22 47 08.686	+13 10 14.31	22471+1311	0.74	0.46	0.98	0.56	1	2
955	22 47 28.979	-05 01 30.69		0.66	0.37	1.30	0.71	1	4
956	22 48 42.866	+09 25 26.93		0.85	0.45	1.13	0.62	1	3
957	22 49 25.254	+15 50 49.69		0.80	0.44	1.41	0.76	1	4
958	22 50 24.015	+27 47 25.25	22504+2747	0.80	0.41	0.93	0.47	1	2
959	22 51 00.092	-05 04 55.25		1.23	0.66	1.34	0.73	3	4
960	22 52 02.026	-06 54 36.24		0.96	0.50	1.21	0.61	2	3
961	22 53 18.352	+31 15 07.08		0.61	0.30	1.55	0.83	0	5
962	22 53 21.844	+18 34 59.76		0.85	0.47	1.50	0.83	2	5
963	22 54 59.868	+10 06 03.54		0.92	0.54	0.95	0.54	2	2
964	22 55 19.429	-10 13 39.55		1.27	0.68	1.37	0.72	4	4
965	22 56 21.031	+28 13 39.96		1.48	0.75	1.62	0.80	4	5
966	22 59 35.407	+19 12 52.60		1.33	0.67	1.52	0.74	4	4
967	22 59 44.236	-03 48 12.07		1.31	0.66	1.47	0.76	4	4
968	23 00 57.754	-08 34 08.02		0.69	0.36	1.07	0.56	1	3
969	23 00 57.217	+25 10 50.85		1.03	0.51	1.18	0.60	2	3
970	23 01 29.707	-07 31 17.10		0.48	0.29	0.55	0.30	0	0
971	23 02 28.129	+07 33 08.68	23025+0733	1.26	0.67	1.27	0.62	3	3
972	23 03 41.984	-08 45 28.66		1.42	0.76	1.48	0.78	4	4
973	23 03 54.540	+02 59 25.34		1.36	0.79	1.36	0.82	4	4
974	23 04 18.652	+16 21 45.67		0.78	0.37	1.08	0.40	1	2
975	23 05 36.345	+29 06 19.98		0.94	0.47	1.52	0.80	2	5
976	23 06 49.400	-02 39 35.05		1.39	0.68	1.40	0.69	4	4
977	23 07 43.322	+29 08 07.36		0.93	0.49	1.02	0.52	2	2
978	23 08 28.583	+25 20 08.48	23085+2520	0.80	0.35	1.02	0.45	1	2
979	23 10 07.264	+02 36 59.49		1.00	0.58	1.54	1.11	2	6
980	23 10 16.841	+10 08 18.02		0.93	0.48	1.27	0.65	2	3
981	23 10 20.469	+11 51 40.31		-0.37	2.11	1.19	0.69	2	3
982	23 10 37.203	+25 57 40.87		0.89	0.46	1.17	0.61	2	3
983	23 10 57.415	+23 32 29.82		1.14	0.59	1.23	0.59	3	3
984	23 11 23.535	+08 02 52.23	23114+0803	1.37	0.71	1.40	0.73	4	4
985	23 12 16.118	+23 18 56.65	23123+2319	0.53	0.27	1.13	0.57	0	3
986	23 12 44.192	+25 12 40.91		1.17	0.64	1.47	0.74	3	4
987	23 13 24.605	-10 12 30.56		0.49	0.31	1.05	0.62	0	3
988	23 14 43.136	-20 25 38.99		0.86	0.49	1.36	0.81	2	4
989	23 14 42.370	-01 00 26.04		0.93	0.48	1.25	0.62	2	3
990	23 14 52.497	+24 45 06.89		1.33	0.69	1.45	0.76	4	4
991	23 15 26.212	+32 06 00.24		1.10	0.56	1.14	0.59	3	3
992	23 17 32.473	+16 06 49.05	23175+1607	0.61	0.30	0.67	0.34	0	0
993	23 18 38.920	+13 54 51.33		0.86	0.48	1.05	0.54	2	2
994	23 20 05.331	+29 20 14.40		0.94	0.61	1.26	0.68	2	4
995	23 21 24.732	+11 45 16.55		1.21	0.73	1.38	0.78	4	4
996	23 23 06.793	+17 58 24.73		0.66	0.34	1.43	0.72	0	4
997	23 23 17.174	-00 16 28.08	23233-0016	0.47	0.27	0.83	0.43	0	1
998	23 23 22.132	+25 05 48.57		1.14	0.58	1.58	0.89	3	5
999	23 26 02.748	+16 57 45.53	23260+1658	0.89	0.51	1.04	0.60	2	3
1000	23 28 30.707	+50 51 52.60		0.92	0.45	0.96	0.44	2	2

Table 2 concludes on next page.

Identification and Spectral Classification of Red Dwarf Common Proper Motion Binary Stars Part 2

Table 2b (conclusion). Colors and spectral classification of the binary stars.

#	PRIMARY		NAME	PRIM		SEC		TYPE	TYPE
	RA	DEC		R-I	I-Z	R-I	I-Z	M+	M+
1001	23 29 14.947	+15 56 11.21	23293+1556	0.71	0.35	1.33	0.66	1	4
1002	23 29 48.441	-19 32 23.56		1.43	0.83	1.46	0.91	4	5
1003	23 29 57.819	+03 42 49.76		0.65	0.35	1.25	0.67	0	3
1004	23 30 27.735	+20 38 17.44		1.04	0.59	1.54	0.90	3	5
1005	23 31 07.495	+28 50 41.92		0.62	0.30	0.75	0.37	0	1
1006	23 32 25.311	+18 10 37.55		0.90	0.46	0.86	0.52	2	2
1007	23 33 05.106	+30 08 23.46		0.86	0.45	0.96	0.50	2	2
1008	23 33 09.641	-01 22 36.33		1.26	0.66	1.39	0.77	3	4
1009	23 33 42.716	+19 44 17.74		1.21	0.68	1.26	0.71	3	4
1010	23 34 34.678	-09 22 08.44	23346-0922	0.97	0.52	1.03	0.55	2	2
1011	23 35 53.124	-10 28 14.84		0.49	0.28	1.20	0.65	0	3
1012	23 36 22.807	-02 36 34.59		0.96	0.52	1.03	0.54	2	2
1013	23 39 15.483	+04 50 36.34		1.41	0.76	1.44	0.81	4	4
1014	23 40 08.085	-01 33 15.14		0.65	0.32	1.40	0.72	0	4
1015	23 41 31.831	-05 38 44.26		0.97	0.47	1.21	0.60	2	3
1016	23 42 30.491	+12 04 08.37		1.78	0.95	1.85	0.96	6	6
1017	23 42 34.779	+01 50 27.94		1.37	0.75	1.78	1.03	4	6
1018	23 42 48.116	-03 57 25.96		0.64	0.27	1.55	0.77	0	4
1019	23 43 02.220	-05 45 20.66		0.51	0.32	0.83	0.48	0	2
1020	23 43 48.847	+18 53 47.66		1.11	0.56	1.44	0.75	3	4
1021	23 43 52.375	+18 52 54.62		1.17	0.62	1.46	0.75	3	4
1022	23 44 01.577	+13 05 48.96		0.63	0.35	1.35	0.72	0	4
1023	23 44 41.865	-20 27 04.52		0.63	0.42	0.86	0.52	1	2
1024	23 45 28.559	+16 05 50.22		1.61	0.85	1.72	0.94	5	5
1025	23 45 52.537	-03 47 24.12		1.13	0.57	1.60	0.86	3	5
1026	23 45 56.571	+13 17 48.22		0.58	0.33	1.62	0.88	0	5
1027	23 46 31.397	+00 35 47.66		0.72	0.39	1.20	0.62	1	3
1028	23 46 35.780	+22 35 21.69		1.29	0.71	1.35	0.73	4	4
1029	23 46 39.181	+05 14 12.16		1.07	0.53	1.02	0.51	2	2
1030	23 46 54.744	+39 45 33.61		0.60	0.28	1.35	0.67	0	4
1031	23 46 53.390	-20 07 09.57		1.30	0.67	1.46	0.83	4	5
1032	23 47 04.190	-18 49 22.76		1.07	0.59	1.27	0.66	3	3
1033	23 47 29.919	+29 31 28.12		0.94	0.46	1.23	0.57	2	3
1034	23 49 49.953	-10 37 20.90	23498-1038	0.92	0.51	0.94	0.48	2	2
1035	23 49 52.626	+36 10 48.94		1.19	0.63	1.34	0.71	3	4
1036	23 51 25.492	+25 50 30.31		1.35	0.69	1.64	0.84	4	5
1037	23 53 17.133	+02 08 20.87	23533+0208	1.31	0.66	1.45	0.78	4	4
1038	23 53 54.935	+06 12 28.22		0.63	0.31	1.18	0.53	0	3
1039	23 54 13.121	+02 01 54.34	23542+0202	0.76	0.43	0.85	0.50	1	2
1040	23 54 52.324	-04 15 33.99		1.31	0.70	1.59	0.88	4	5
1041	23 55 10.060	-04 34 51.33		1.22	0.64	1.22	0.62	3	3
1042	23 58 41.294	+15 12 44.47	23587+1513	1.21	0.65	1.37	0.74	3	4