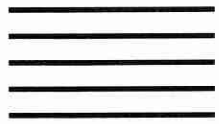


Near Star List

This *Near Star List* provides basic information for stars within 50 light years of Sol. Based on Gliese's *Catalog of Nearby Stars*, edition 1969 (with updates by Halliwell and others), it is the best compilation of accurate data currently available in one place.

INFORMATION

This *Near Star List* contains the following:

Star Name (and Spectral Data): This list provides a generally accepted name or catalog number for each star. The cataloged spectral type and size of the star is given with the name; because some data for stars are incomplete, this may conflict with the standard data provided in the spectra column. Size is given as a number or Roman numeral; a number indicates less certain data.

X, Y, and Z Coordinates: Each star's position is specified in terms of X, Y, and Z axes in units of one light year.

Spectra: Stars are identified by their spectra and size.

Magnitude: Known absolute magnitude is provided.

Identification Number: Stars are given a unique identification number based on the sequential numbers in Gliese. Gliese numbers are multiplied by 10 (Gliese number 457 is 4570.0 in this catalog). Members of a multiple system (aside from the primary component) are identified by decimal tenths: .1, .2, etc.

Star Name		X	Y	Z	Spectra	Magn	No.
26 Draconis G1 V	A	-2.6	-22.8	42.9	G1 V	4.46	6840.0
26 Draconis M0.5 5	B	-2.6	-22.8	42.9	M0 V	7.19	6840.1
44 I Bootis G1 5	A	-18.3	-18.6	28.7	G1 V	4.87	5750.0
44 I Bootis G2 5	B	-18.3	-18.6	28.7	G2 V	5.47	5750.1
44 I Bootis SB G2 5	C	-18.3	-18.6	28.7	G2 V	6	5750.2
61 Cygni A K5 VE	A	6.2	-6.0	6.8	K5 V	7.58	8200.0
61 Cygni A UC	B	6.2	-6.0	6.8	M0 V	13	8200.1
61 Cygni B K7 VE	C	6.2	-6.0	6.8	K7 V	8.39	8200.2
61 Ursae Majoris G8 VE	A	-24.4	2.2	16.7	G8 V	5.55	4340.0
70 Ophiuchi K0 VE	A	0.2	-16.7	0.7	K0 V	5.67	7020.0
70 Ophiuchi UC	B	0.2	-16.7	0.7	M0 V	13	7020.1
82 Eridani G5 V	A	9.5	11.2	-13.9	G5 V	5.29	1390.0
85 Pegasi G3 V	A	34.6	-0.1	17.5	G3 V	5.38	9140.0
AC+ 1 1951-103 M1 5E	A	13.0	46.1	1.4	M1 V	8.8	1820.0
AC+ 2 2155-242 M4 5	A	9.9	-31.7	1.6	M4 V	11.13	7480.0
AC+ 3 2259-31 M2 5	A	30.0	14.1	2.3	M2 V	10.9	700.0
AC+ 3 2528-176 M2 5	A	10.1	-48.3	2.6	M2 V	9.83	7300.0
AC+ 8 142-393 M2 5E	A	7.9	-33.8	5.0	M2 V	9.9	7350.0
AC+10 22-181 M4 5	A	33.8	31.7	8.6	M4 V	11.4	1200.0
AC+10 95-26 M4	A	-45.4	-6.5	8.1	M4 VI	10.6	4760.0
AC+12 1800-213 M5.5 5		1.7	18.8	4.1	M5 V	12.73	2130.0
AC+13 1185-145 3 C	A	24.2	-37.6	10.5	M2 V	11.8	7841.0
AC+13 1301-119 M2 5	A	-34.5	24.4	10.1	M2 V	9.8	3610.0
AC+13 14332 M4 5	A	-18.8	-1.8	39.1	M4 V	11	4630.0
AC+16 247-80 M2 5E	A	8.4	-38.7	11.7	M2 V	9.59	7310.0
AC+16 734-144 M2 V	A	31.8	-18.5	10.7	M2 V	10.3	8440.0
AC+17 534-105 M4 5E	A	15.9	-12.6	6.3	M4 V	11.27	8290.0
AC+17 536-125 M2 5E	A	36.0	-19.0	13.3	M2 V	9.5	8510.0
AC+18 1890-112 M4	A	-20.0	-26.8	10.7	M4 V	11.8	5890.0
AC+19 1165-38 M5	A	9.5	42.8	15.6	M5 VI	10.5	1920.0
AC+20 1463-148 M2 6	A	7.1	-24.6	9.7	M2 VI	11.15	7450.0
AC+20 1463-154 M2 6	B	7.1	-24.6	9.7	M2 VI	11.14	7450.1
AC+20 76187 A 7	A	19.6	-23.5	-11.3	A0 VII	12	7991.0
AC+22 308-605 M3	A	26.7	-28.0	15.7	M3 V	11.4	8130.0
AC+23 468-46 M3 5	A	-19.2	5.3	8.4	M3 V	10.93	4080.0
AC+24 747-102 A 7	A	24.9	-31.9	18.7	A0 VII	10.85	7940.0
AC+25 7918 M4 5E	A	17.5	14.8	10.8	M4 V	11.12	1090.0
AC+32 54804 M5 5	A	6.3	-21.7	14.3	M5 V	12.2	7470.0
AC+32 54804 M5 5	B	6.3	-21.7	14.3	M5 V	12.5	7470.1
AC+32 86401 A 7	B	39.8	-3.3	25.2	A0 VII	12.1	9052.1
AC+32 86422 M5 5	A	39.7	-3.3	25.2	M5 V	10.9	9052.0
AC+33 10883 M1	A	17.8	32.6	24.6	M1 VI	9.5	1620.0
AC+33 25644 M4 5	A	-3.7	15.7	10.6	M4 V	11.03	2510.0
AC+38 23616 M5 5E	A	-4.4	14.4	12.0	M5 V	12.62	2680.0
AC+38 23616 SB	B	-4.4	14.4	12.0	M0 V	13	2680.1
AC+39 57322	C	25.4	-25.9	30.2	M0 V	12.3	8150.2
AC+39 57322 M3 5	B	25.4	-25.9	30.2	M3 V	11.4	8150.1
AC+39 57322 M3 5E	A	25.4	-25.9	30.2	M3 V	10.7	8150.0
AC+39 60670	B	26.4	-19.5	26.7	M0 V	11.6	8340.1
AC+39 60670 M0 5	A	26.4	-19.5	26.7	M0 V	9.6	8340.0
AC+41 726-154 M4	A	-5.4	-29.2	26.4	M4 VI	11	6710.0
AC+44 871-589 M3 5	A	17.9	-20.8	26.7	M3 V	10.5	8060.0
AC+45 133-65 M2 5E	A	20.9	22.0	31.0	M2 V	9.5	1250.0
AC+47 256-150 M2 5	A	-10.9	29.8	33.1	M2 V	10	2720.0
AC+54 1646-56 M2 5	A	-11.2	-25.2	38.4	M2 V	9.6	6250.0
AC+56 13511 M4 B	A	18.6	8.2	31.4	M4 V	11.4	630.0
AC+58 13565 M4 5E	A	18.2	10.1	33.8	M4 V	11.7	820.0
AC+58 25001 M4 5	A	3.4	8.0	14.5	M4 V	12.51	1691.0
AC+58 25002 A D	B	3.4	8.0	14.5	A0 VII	12.51	1691.1
AC+60 3496 M2.5 5E	A	19.0	4.9	35.6	M2 V	10.2	470.0
AC+61 26806 M1 VE	A	-2.6	-23.0	42.8	M1 V	9.08	6850.0
AC+65 6955 M3 5	A	6.5	-8.6	23.3	M3 V	10.95	7930.0
AC+65 6955 SB	B	6.5	-8.6	23.3	M0 V	13	7930.1
AC+66 3955 M4 5E	A	-11.1	-2.3	25.7	M4 V	11.2	4870.0
AC+70 4336 M3 5	A	-10.6	7.5	36.0	M3 V	10.25	3600.0
AC+70 4337 M4 5	A	-10.6	7.4	36.0	M4 V	10.9	3620.0
AC+70 8247 A 7	A	3.4	-12.8	37.4	A0 VII	12.75	7420.0
AC+71 532 M3.5 5E	A	7.9	2.0	24.3	M3 V	10.34	480.0
AC+79 1584 M2	A	4.2	4.7	35.2	M2 V	11.1	1330.0
AC+79 3888 M4 6	A	-3.2	0.2	16.3	M4 VI	12.38	4450.0
AC+82 1111 M3 5	A	0.0	4.3	31.3	M3 V	10.56	2260.0
AC- 7 342-397 M5 5	B	10.3	-29.3	-4.3	M5 V	12.83	7541.1
AC- 7 342-402 A 7WK	A	10.3	-29.3	-4.3	A0 VII	12.44	7541.0
AC-12 2306-155 M4	A	-30.7	-23.2	-8.3	M4 V	13	5531.0
Alpha Centauri G2 V	A	-1.7	-1.4	-3.9	G2 V	4.35	5590.0
Alpha Centauri K0 V	B	-1.7	-1.4	-3.9	K0 V	5.69	5590.1
Alpha Crucis F2 V	A	-45.0	-1.2	-20.5	F2 V	3.1	4553.0
Alpha Fornacis B	B	25.9	28.3	-21.5	M0 V	6.5	1270.1
Alpha Fornacis F8 IV	A	25.9	28.3	-21.5	F8 IV	3.5	1270.0
Alpha Hydri F0 V	A	19.4	10.9	-41.7	F0 V	2.9	830.0
Alpha Mensae G5 V	A	-0.4	7.4	-27.4	G5 V	5.39	2310.0
Altair A7 V	A	7.4	-14.5	2.4	A7 V	2.24	7680.0
Arcturus K2 IIIE	A	-28.0	-18.4	11.7	K2 III	-0.24	5410.0
Augereau M2 VE	A	-12.3	3.1	12.1	M2 V	10.12	4120.0
BPM 94172 A 7N	A	13.5	-37.6	10.3	A0 VII	12.5	7551.0
Barnard's Star M5 V	A	-0.2	-5.9	0.4	M5 V	13.25	6990.0
Berthier K2 V	A	-21.5	1.7	24.5	K2 V	7.8	4381.0
Bessieres M2 VE	A	-6.5	1.7	4.8	M2 V	10.49	4110.0
Bessieres UC	B	-6.5	1.7	4.8	M0 V	13	4110.1
Beta Aquilae G8 IV	A	21.8	-40.8	5.0	G8 IV	3.5	7710.0
Beta Aquilae M3 5	B	21.8	-40.8	5.0	M3 V	10.6	7710.1
BetaCanumVenaticorum	G0 V	-22.2	-3.1	19.8	G0 V	4.46	4750.0
Beta Cassiopei F2 IV	A	25.5	0.7	42.2	F2 IV	1.37	80.0
Beta Cassiopei SB	B	25.5	0.7	42.2	M0 V	13	80.1
Beta Comae Berenices	G0 V	-22.9	-7.2	12.8	G0 V	4.66	5020.0
Beta Hydri G1 IV	A	4.4	0.4	-20.1	G1 IV	3.8	190.0
Beta Trianguli Australis	F2 IV	-10.1	-15.9	-37.4	F2 IV	2.4	6010.0
Beta Virginis F8 V	A	-32.6	1.6	1.1	F8 V	3.6	4490.0
Botany Bay K7 V	A	-8.6	-24.7	17.3	K7 V	8.19	6380.0
Broward M5 5	A	-5.1	-11.8	-2.9	M5 V	12.1	6280.0
C1 A 7	A	-16.4	-1.0	21.6	A0 VII	13.7	4591.0
Capella A G8 III	A	6.1	29.5	31.2	G8 III	-0.6	1940.0
Capella B F5 III	B	6.1	29.5	31.2	F5 III	.34	1940.1
Capella H A M2 5	A	6.1	30.0	31.5	M2 V	9.55	1950.0
Capella H B M5 5	B	6.1	30.0	31.5	M5 V	13	1950.1
Castor A A1 V	A	-15.6	36.9	25.0	A1 V	2.1	2780.0
Castor A SB A1 V	B	-15.6	36.9	25.0	A1 V	2.1	2780.1
Castor B A5 V	C	-15.6	36.9	25.0	A5 V	2.9	2780.2
Castor B SB A5 V	D	-15.6	36.9	25.0	A5 V	2.9	2780.3
Catherine's Star	B	-22.7	0.9	17.7	M0 V	12	4510.1

Star Name		X	Y	Z	Spectra	Magn	No.
Chi Draconis F7 V	A	0.7	-7.8	24.0	F7 V	4.13	7130.0
Chi Draconis SB	B	0.7	-7.8	24.0	M0 V	13	7130.1
Chi1 Orionis G0 V	A	1.1	30.2	11.1	G0 V	4.43	2220.0
Clarkesstar M4.5 5E	A	-5.8	-19.2	-3.0	M4 V	10.79	6440.0
D'Artagnon M	A	-0.8	-10.4	-16.2	M0 V	14	6930.0
DM+ 0 2989 M0.5 VE	A	-35.1	-7.5	0.3	M0 V	8.31	4880.0
DM+ 0 4810 K8 5E	A	27.6	-16.1	0.6	K8 V	9.2	8460.0
DM+ 1 2447 M2 5	A	-23.1	9.9	0.4	M2 V	10.2	3930.0
DM+ 1 4774 M2 VE	A	18.5	-1.1	0.6	M2 V	10.19	9080.0
DM+ 2 348 M3 5	A	27.4	17.4	1.9	M3 V	10.03	870.0
DM+ 2 3482 K6 VE	C	0.2	-16.7	0.7	K6 V	7.45	7020.2
DM+ 2 4076 K4 5E	A	21.4	-37.1	2.3	K4 V	6.9	7750.0
DM+ 3 3465 K3 5	A	-4.1	-40.0	2.5	K3 V	6.06	6880.0
DM+ 4 123 K2 V	A	22.0	4.4	1.9	K2 V	6.55	330.0
DM+ 4 4048 M3.5 VE	A	5.9	-17.8	1.6	M3 V	10.31	7520.0
DM+ 4 4157 M1 5	A	16.3	-38.4	3.2	M1 V	8.82	7630.0
DM+ 5 1668 M5 5	A	-4.5	11.4	1.1	M5 V	11.98	2730.0
DM+ 5 1668 UC	B	-4.5	11.4	1.1	M0 V	13	2730.1
DM+ 5 3409	B	-4.5	-31.5	3.1	M0 V	14	6781.1
DM+ 5 3409 M1 V	A	-4.5	-31.5	3.1	M1 V	9.36	6781.0
DM+ 5 3993 M2 V	A	9.1	-37.1	3.9	M2 V	8.87	7400.0
DM+ 6 2182 K3 VE	A	-29.0	22.7	3.7	K3 V	6.93	3490.0
DM+ 6 398 K3 V	A	18.2	14.4	2.7	K3 V	6.54	1050.0
DM+ 6 398 M4 5	C	18.2	14.4	2.7	M4 V	12.37	1050.2
DM+ 6 398 UC	B	18.2	14.4	2.7	M0 V	13	1050.1
DM+ 7 4052 K5 V	A	15.5	-42.2	5.8	K5 V	7.4	7562.0
DM+ 9 2636 M1 5	A	-44.4	-5.6	7.1	M1 V	9.1	4710.0
DM+10 1032	B	-1.1	30.8	5.6	M0 V	12.7	2280.1
DM+10 1032 M3 5	A	-1.1	30.8	5.6	M3 V	10.65	2280.0
DM+10 2531 G0 V	A	-39.6	-13.3	7.1	G0 V	4.65	5040.0
DM+11 2576 M1 V	A	-22.7	-9.2	4.5	M1 V	9.65	5140.0
DM+11 2576 SB	B	-22.7	-9.2	4.5	M0 V	13	5140.1
DM+11 878 M0 5	A	4.2	36.5	7.3	M0 V	8.5	2080.0
DM+12 1944 M5 5	A	-32.4	33.9	9.8	M5 V	9.8	3300.0
DM+13 2618 M2 5E	A	-37.6	-9.8	8.7	M2 V	9.4	4940.0
DM+13 2901 G6 5	A	-30.7	-32.5	10.6	G6 V	4.6	5791.0
DM+15 2620 M4 VE	A	-14.1	-6.9	4.2	M4 V	10.02	5260.0
DM+15 3364 G6	A	0.9	-43.6	12.4	G6 VII	8	7030.0
DM+15 4733 M2 5E	A	20.5	-6.1	6.2	M2 V	9.5	8800.0
DM+15 4733 SB	B	20.5	-6.1	6.2	M0 V	13	8800.1
DM+16 2404 K8 5	A	-45.6	-7.8	12.9	K8 V	7.3	4810.0
DM+16 2658 M3 5	A	-34.5	-25.8	12.1	M3 V	10	5520.0
DM+16 2708 M0 5E	A	-23.9	-22.3	9.5	M0 V	10.1	5690.0
DM+17 1320 M1 5	A	-4.5	29.5	9.4	M1 V	9.71	2390.0
DM+17 2611 K2 V	A	-34.0	-11.5	11.1	K2 V	6.28	5050.0
DM+17 2611 M2 5E	B	-34.0	-11.5	11.1	M2 V	9.3	5050.1
DM+18 1214 K3 5E	A	-3.8	36.9	12.6	K3 V	6.4	2330.0
DM+18 2776 M1 5	A	-28.8	-13.9	10.4	M1 V	9.76	5250.0
DM+18 3606 M1 5	A	2.6	-46.1	15.4	M1 V	8.8	7080.0
DM+18 683 M2.5 5E	A	10.8	29.8	10.8	M2 V	9.87	1760.0
DM+19 279 K1 V	A	20.7	9.6	8.3	K1 V	5.88	680.0
DM+19 2881 K1 V	A	-26.9	-24.9	12.8	K1 V	5.66	5670.0
DM+19 2881 SB	B	-26.9	-24.9	12.8	M0 V	13	5670.1
DM+19 5036 G4 V	A	40.1	-11.8	15.6	G4 V	4.82	8820.0
DM+19 5116 M4 5E	A	19.6	-2.7	7.0	M4 V	11.33	8960.0
DM+19 5116 M6 5E	B	19.6	-2.7	7.0	M6 V	13.4	8960.1
DM+20 5046 K5 V	A	19.6	-12.1	8.8	K5 V	13	8411.0
DM+20 802 K3 V	A	15.3	41.3	16.7	K3 V	7.3	1740.0
DM+20 85 K0 V	A	31.6	5.1	12.2	K0 V	5.75	270.0
DM+21 587 G1 5	A	21.5	38.1	17.6	G1 V	5.09	1600.0
DM+21 652 M1 5EB	A	12.8	29.5	12.8	M1 V	8.1	1690.0
DM+22 2302 M2 5E	A	-34.3	9.1	14.5	M2 V	9.2	4100.0
DM+24 2733 M1 5	A	-34.9	-27.7	19.6	M1 V	8.84	5480.0
DM+24 2733 M2 5	B	-36.1	-26.1	19.6	M2 V	9.1	5480.1
DM+24 2786 G2 5	A	-31.6	-28.5	19.0	G2 V	5.15	5640.0
DM+24 2786 SB	B	-31.6	-28.5	19.0	M0 V	13	5640.1
DM+25 2874 K7 V	A	-27.2	-28.5	18.4	K7 V	9.32	5790.0
DM+25 3173 M2 5	A	-8.5	-29.7	14.9	M2 V	9.6	6490.0
DM+25 3719 K2 5	A	10.6	-37.7	18.9	K2 V	6.6	7432.0
DM+25 613 K7.5 E	A	21.3	31.4	18.5	K7 VII	9	1540.0
DM+26 4734 M5 V	B	34.6	-0.1	17.5	M5 V	10.6	9140.1
DM+26 4734 SB M3 V	C	34.6	-0.1	17.5	M3 V	10.6	9140.2
DM+27 2055 K3 V	A	-40.2	2.7	20.7	K3 V	8	4431.0
DM+27 2296 K6 5	B	-24.9	-12.6	14.3	K6 V	7.7	5280.1
DM+27 28217 M3 5	A	-29.0	2.5	14.7	M3 V	10.7	4360.0
DM+27 4120 M0 5E	A	32.9	-24.0	21.1	M0 V	9.11	8350.0
DM+27 4120 SB	B	32.9	-24.0	21.1	M0 V	13	8350.1
DM+28 1660 G8 V	A	-26.1	28.5	21.0	G8 V	5.3	3240.0
DM+28 4704 KO VE	A	39.1	0.6	21.4	K0 V	5.46	50.0
DM+30 2512 K8 V	A	-29.8	-20.8	20.8	K8 V	8	5460.0
DM+31 2240 K9 VE	A	-33.8	7.7	20.5	K9 V	7.9	4140.0
DM+31 2240 M2 5	B	-33.8	7.7	20.5	M2 V	9.5	4140.1
DM+31 3767 M1 5	A	15.8	-32.3	22.3	M1 V	9.72	7670.0
DM+31 3767 M2	B	15.8	-32.3	22.3	M2 V	10.7	7670.1
DM+32 2896 G2 V	A	-6.8	-37.1	24.0	G2 V	4.71	6720.0
DM+32 828 M	A	20.8	13.4	-15.7	M0 V	10.4	910.0
DM+33 529 M0 5	A	30.2	27.4	27.7	M0 V	8.7	1160.0
DM+34 2323 K4 V	A	-35.0	-4.5	23.5	K4 V	8.2	4711.0
DM+35 2436 M0 5	A	-25.4	-8.9	19.0	M0 V	9.5	5070.0
DM+35 2436 M3	B	-25.4	-8.9	19.0	M3 V	12.1	5070.1
DM+36 1638 M3.5 5E	A	-11.3	27.6	21.9	M3 V	10.32	2770.0
DM+36 1638 SB	B	-11.3	27.6	21.9	M0 V	13	2770.1
DM+36 1970 M2 5	A	-30.5	23.5	28.5	M2 V	9.4	3530.0
DM+36 1979	B	-19.4	14.4	17.5	M0 V	13.2	3560.1
DM+36 1979 G8 IV	A	-19.4	14.4	17.5	G8 IV	5.6	3560.0
DM+36 2219 M1 VE	A	-27.9	1.2	19.9	M1 V	9.7	4500.0
DM+36 2393 M2 5E	A	-23.5	-10.4	18.5	M2 V	9.1	5190.0
DM+37 748 M1.5 5E	A	23.1	26.4	27.5	M1 V	9.6	1340.0
DM+38 3095 K2 V	A	0.9	-27.5	21.7	K2 V	6.24	7060.0
DM+39 154 K2 VE	A	34.2	5.7	29.0	K2 V	6.6	280.0
DM+39 2376	B	-28.3	9.9	24.0	M0 V	11.8	4000.1
DM+39 2376 M2 5E	A	-28.3	9.9	24.0	M2 V	8.95	4000.0
DM+39 2947 G8 V	A	-15.4	-27.6	25.7	G8 V	6.18	6110.0
DM+40 45 M0 5	A	35.2	2.2	30.3	M0 V	8.3	140.0
DM+41 2147 G0 V	A	-32.2	9.1	28.7	G0 V	4.4	4070.0
DM+41 219 F8 V	A	31.8	9.6	29.7	F8 V	4.2	534.0
DM+41 2695 M0 5P	A	-15.9	-33.7	32.4	M0 V	8.1	6190.0
DM+42 1956	B	-22.9	23.4	29.4	M0 V	5.33	3320.1
DM+42 1956 F5 V	A	-22.9	23.4	29.4	F5 V	3.5	3320.0
DM+42 2296 M0 VE	A	-33.4	-2.9	30.5	M0 V	8.5	4620.0
DM+43 1953 K5 V	A	-28.4	19.8	32.1	K5 V	7.31	3650.0
DM+43 2796 M3 5	A	-1.8	-23.0	21.7	M3 V	10.6	6940.0
DM+43 4305 M4.5 5E	A	10.3	-3.6	10.5	M4 V	11.65	8730.0
DM+43 4305 SB	B	10.3	-3.6	10.5	M0 V	13	8730.1
DM+44 4548 M2 5E	A	24.3	0.2	24.7	M2 V	9.76	20.0
DM+45 2014 K4 V	A	-27.9	-1.8	27.6	K4 V	8.2	4592.0
DM+45 2247 M0 5	A	-20.3	-20.1	29.1	M0 V	8.6	5720.0
DM+45 2505 M3.5	B	-3.2	-16.4	15.0	M3 V	11.28	6610.1
DM+45 2688 M0 5	A	2.1	-33.1	33.7	M0 V	9.3	7090.0
DM+45 2743 M2 5	A	4.0	-27.5	28.4	M2 V	9.4	7200.0
DM+45 4408 K9 5E	A	24.5	0.3	25.0	K9 V	8.8	40.0
DM+45 4408 M0 5E	C	24.5	0.3	25.0	M0 V	8.84	40.2
DM+45 4408 SB	B	24.5	0.3	25.0	M0 V	13	40.1
DM+46 1551 G1 V	A	-28.5	18.9	35.6	G1 V	4.2	3680.0
DM+46 1635 K7 V	A	-29.5	12.4	32.9	K7 V	8.1	3970.0
DM+46 1889 M2 5	A	-19.4	-8.8	22.2	M2 V	10.1	5210.0
DM+47 2112 M3 5E	A	-24.3	-14.1	29.5	M3 V	9.5	5370.0
DM+47 2112 M3 5E	B	-24.3	-14.1	29.5	M3 V	9.6	5370.1
DM+47 612 M1.5 5E	A	17.3	12.0	23.1	M1 V	9.5	960.0
DM+48 1829 M2 5	A	-27.6	16.0	35.8	M2 V	9.2	3780.0
DM+48 2108	B	-17.6	-6.2	20.7	M0 V	10.1	5080.1
DM+48 2108 M2 5E	A	-17.6	-6.2	20.7	M2 V	9.3	5080.0
DM+49 1280 M2 5E	A	7.7	26.5	32.7	M2 V	9.2	1810.0
DM+50 1832 K3 V	A	-24.0	3.1	28.6	K3 V	8	4312.0
DM+50 2030 M0 5P	A	-25.4	-13.2	34.3	M0 V	8.3	5320.0
DM+51 2402 K6 VE	A	4.0	-28.2	36.0	K6 V	7.9	7190.0
DM+51 2402 SB	B	4.0	-28.2	36.0	M0 V	13	7190.1
DM+52 2294 G8 5	A	5.6	-25.3	34.2	G8 V	13	7321.0
DM+52 857 K8 VE	A	7.3	18.5	26.2	K8 V	8.6	1720.0
DM+52 911 M0 5	A	7.6	28.2	38.8	M0 V	9.06	1840.0
DM+53 1320 M0 VE	A	-8.8	7.9	15.6	M0 V	8.72	3380.0
DM+53 1321 M0 VE	B	-8.8	7.9	15.6	M0 V	8.82	3380.1

Star Name		X	Y	Z	Spectra	Magn	No.
DM+53 934 K1 VE	A	2.0	20.7	28.1	K1 V	6.07	2110.0
DM+53 935 M1 5	A	2.0	20.7	28.1	M1 V	9.62	2120.0
DM+55 1519 M2 5E	A	-24.5	-1.1	34.5	M2 V	9.3	4580.0
DM+56 1458 K7 VE	A	-20.1	8.5	32.6	K7 V	8.29	3940.0
DM+56 1459 F8 V	A	-20.1	8.5	32.6	F8 V	4.44	3950.0
DM+56 2966 K3 V	A	11.8	-2.6	18.5	K3 V	6.41	8920.0
DM+57 2735 M2 5E	A	20.2	-3.4	32.3	M2 V	9.7	8950.0
DM+59 1915 M4 5	A	1.0	-5.8	9.9	M4 V	11.15	7250.0
DM+59 1915 M5 5	B	1.0	-5.8	9.9	M5 V	11.94	7250.1
DM+60 1003 M0 5P	A	-4.8	23.5	42.2	M0 V	7.7	2470.0
DM+61 195 M2 5E	A	13.7	3.6	26.9	M2 V	9.72	490.0
DM+61 195 SB	B	13.7	3.6	26.9	M0 V	13	490.1
DM+61 2068 M2 VE	A	7.6	-8.2	21.0	M2 V	9.18	8090.0
DM+61 366 K5 V	A	13.4	7.6	28.6	K5 V	7.4	833.0
DM+62 1916 G5	A	17.0	-15.1	43.8	G5 VII	8.1	8230.0
DM+62 274 K1 V	A	18.7	7.9	39.7	K1 V	6.1	593.0
DM+63 137 K7 V	A	19.3	5.5	40.5	K7 V	8.29	520.0
DM+63 229 K5 V	A	17.5	8.1	38.9	K5 V	7.78	690.0
DM+63 238 K0 V	A	11.4	5.5	25.6	K0 V	5.91	750.0
DM+63 869 M1 5	A	-15.2	9.4	35.0	M1 V	8.6	3730.0
DM+66 1281 G5 V	A	10.8	-16.0	44.6	G5 V	5.07	7880.0
DM+66 34 M2.5 5E	A	13.1	1.6	31.2	M2 V	10.42	220.0
DM+66 34 M4.5	B	13.1	1.6	31.2	M4 V	12.3	220.1
DM+66 717 M1 V	A	-10.9	2.0	25.0	M1 V	9.7	4240.0
DM+67 1014 K0 V	A	-2.6	-16.6	40.1	K0 V	5.81	6750.0
DM+67 1014 SB	B	-2.6	-16.6	40.1	M0 V	13	6750.1
DM+67 552 M1 5	A	-9.9	12.6	38.5	M1 V	8.76	3100.0
DM+67 552 SB	B	-9.9	12.6	38.5	M0 V	11.7	3100.1
DM+67 935 M0 VE	A	-6.2	-12.7	33.7	M0 V	8.37	6170.0
DM+67 935 M3 5	B	-6.2	-12.7	33.8	M3 V	10.47	6170.1
DM+68 946 M3.5 V	A	-0.6	-5.7	14.2	M3 V	10.79	6870.0
DM+68 946 SB	B	-0.6	-5.7	14.2	M0 V	13	6870.1
DM+71 482 K5 V	A	-8.0	8.5	33.8	K5 V	8.48	3250.0
DM+71 482 M0 5	B	-8.0	8.5	33.8	M0 V	8.7	3250.1
DM+74 1047 K3 V	A	8.9	-0.4	33.8	K3 V	6.25	9090.0
DM+74 1047 M2	C	8.9	-0.4	33.8	M2 V	11.5	9090.2
DM+74 1047 SB	B	8.9	-0.4	33.8	M0 V	13	9090.1
DM+74 456 K5 5	A	-12.1	2.5	42.2	K5 V	7.05	4200.0
DM+74 456 M2	B	-12.1	2.5	42.2	M2 V	10.7	4200.1
DM+76 785 M0 5	A	5.2	-8.1	41.8	M0 V	8.3	7860.0
DM+80 238 G8 5	A	-3.6	6.9	45.9	G8 V	5.78	2900.0
DM- 1 2892 M0 5	A	-30.8	-17.6	-1.5	M0 V	9.6	5360.0
DM- 1 3220 K0 VE	A	-13.2	-33.3	-1.4	K0 V	5.56	6310.0
DM- 1 3474 M1 5E	A	3.4	-45.2	-1.6	M1 V	8.7	7100.0
DM- 1 4323 M1 5	A	45.2	-18.0	-1.0	M1 V	9.15	8640.0
DM- 1 565 K5 5E	A	23.4	38.6	-1.1	K5 V	7.6	1570.0
DM- 1 565 M3 5E+	B	23.4	38.6	-1.1	M3 V	11	1570.1
DM- 1 565 SB	C	23.4	38.6	-1.1	M0 V	13	1570.2
DM- 2 129 K1	A	45.2	11.0	-1.7	K1 VII	8.3	440.0
DM- 2 2901 F6 V	A	-36.0	28.4	-2.1	F6 V	3.9	3480.0
DM- 2 2902 K0	B	-36.0	28.4	-2.1	K0 VI	6.4	3480.1
DM- 2 3000 M0 5	A	-36.2	22.8	-2.6	M0 V	9.8	3720.0
DM- 3 1061 K3 V	A	8.2	43.2	-2.4	K3 V	7.11	2000.0
DM- 3 1061 M2	B	8.2	43.2	-2.5	M2 V	12	2000.1
DM- 3 1110 K5 V	A	6.6	44.6	-2.8	K5 V	6.9	2040.0
DM- 3 1123 M1 VE	A	2.5	18.9	-1.3	M1 V	9.12	2050.0
DM- 3 2001 K2 VE	A	-18.4	40.5	-2.8	K2 V	6.5	2820.0
DM- 3 2002 K5 5	B	-18.5	40.5	-2.8	K5 V	8.3	2820.1
DM- 3 2870 M2 5	A	-25.8	13.4	-1.8	M2 V	9.6	3820.0
DM- 3 2870 SB	B	-25.8	13.4	-1.8	M0 V	13	3820.1
DM- 3 3508 K6 5	A	-43.0	-19.5	-3.3	K6 V	8.8	5211.0
DM- 3 3508 SB	B	-43.0	-19.5	-3.3	M0 V	13	5211.1
DM- 3 4233 M2 5	A	0.2	-23.6	-1.3	M2 V	10.08	7010.0
DM- 4 2226 M3	A	-17.7	28.9	-2.6	M3 VI	9.9	2970.0
DM- 4 2490 G3 5	A	-26.1	27.9	-3.6	G3 V	5.65	3270.0
DM- 4 4225 K5 V	A	-8.9	-34.6	-3.2	K5 V	7.53	6530.0
DM- 4 4226 M3.5 V	A	-8.9	-34.6	-3.2	M3 V	9.87	6540.0
DM- 5 1123 K3 V+	A	7.9	28.6	-3.1	K3 V	6.4	1830.0
DM- 5 1123 SB	B	7.9	28.6	-3.1	M0 V	13	1830.1
DM- 5 1844 K6 5	A	-6.8	30.4	-2.8	K6 V	6.68	2500.0
DM- 5 1844 M2	B	-6.8	30.4	-2.9	M2 V	10.2	2500.1

Star Name		X	Y	Z	Spectra	Magn	No.
DM- 5 5674 K2 5	A	35.2	-21.2	-3.4	K2 V	13	8421.0
DM- 5 5715 M3 5	A	25.5	-13.8	-2.5	M3 V	10.67	8490.0
DM- 5 642 K5 V	A	28.1	34.3	-4.4	K5 V	7.2	1410.0
DM- 6 4663 M2 5	A	-2.3	-42.1	-4.5	M2 V	9.5	6960.0
DM- 6 4663 SB	B	-2.3	-42.1	-4.5	M0 V	13	6960.1
DM- 7 4003 M5 5	A	-13.8	-16.0	-2.8	M5 V	11.5	5810.0
DM- 7 699 M0 5	A	22.5	36.1	-5.3	M0 V	8.44	1560.0
DM- 7 781 A 7	B	7.0	14.0	-2.2	A0 VII	11.09	1660.1
DM- 7 781 M4.5 5E	C	7.0	14.0	-2.2	M4 V	12.73	1660.2
DM- 8 2582 M0 5	A	-33.2	31.9	-7.0	M0 V	8.7	3340.0
DM- 8 2582 SB	B	-33.2	31.9	-7.0	M0 V	13	3340.1
DM- 8 4352 M4.5 5	B	-5.8	-19.2	-3.0	M4 V	10.8	6440.1
DM- 9 3413 K0 IV	A	-40.1	0.3	-7.2	K0 IV	5.06	4540.0
DM-11 2741 M2 5	A	-33.1	21.3	-8.5	M2 V	9.54	3690.0
DM-11 3759 M4 5	A	-15.8	-12.3	-4.4	M4 V	12.38	5550.0
DM-12 2449 G8 V	A	-22.6	33.3	-9.0	G8 V	5.49	3020.0
DM-12 2918 M4 5	A	-22.8	17.6	-6.9	M4 V	11.02	3520.0
DM-12 2918 M4 5	B	-22.8	17.6	-6.9	M4 V	11	3520.1
DM-12 4523 SB	B	-5.1	-11.8	-2.9	M0 V	13	6280.1
DM-13 2267	B	-21.1	40.7	-11.3	M0 V	5.36	2910.1
DM-13 2267 G1 V	A	-21.1	40.7	-11.3	G1 V	4.91	2910.0
DM-13 544 K0 VE	A	18.4	16.9	-5.8	K0 V	6.57	1170.0
DM-14 5936 K1 VE	A	34.5	-33.3	-12.1	K1 V	6.25	8190.0
DM-14 5936 M0	B	34.5	-33.3	-12.1	M0 VI	9.3	8190.1
DM-15 6290 M5 5	A	14.4	-4.6	-4.0	M5 V	11.77	8760.0
DM-16 214 K3	A	43.6	14.8	-13.1	K3 VII	8.8	560.0
DM-17 3813 G6 V	A	-24.7	-8.5	-8.5	G6 V	5.12	5060.0
DM-17 6768	B	40.1	-5.3	-12.4	M0 V	10.8	8970.1
DM-17 6768 M5	A	40.1	-5.3	-12.4	M5 VI	10.4	8970.0
DM-17 6769 K5 5E	A	40.1	-5.3	-12.5	K5 V	8	8980.0
DM-17 954 G1 5	A	12.9	38.3	-12.4	G1 V	4.92	1770.0
DM-18 3019 M C	A	-31.1	10.7	-11.3	M0 V	12.3	4010.0
DM-18 359 M3 5	A	23.4	13.8	-8.8	M3 V	10.46	840.0
DM-18 4986 K3 V	A	5.6	-45.7	-15.8	K3 V	6.2	7160.0
DM-19 3242 M C	B	-30.2	5.4	-11.3	M0 V	11	4250.1
DM-19 3242 M0 5	A	-30.2	5.4	-11.3	M0 V	8.7	4250.0
DM-19 5899	B	29.5	-35.3	-16.0	M0 V	13.1	8000.1
DM-19 5899 M2 5	A	29.5	-35.3	-16.0	M2 V	9.5	8000.0
DM-20 4123 M2 V	B	-12.3	-11.7	-6.6	M2 V	9.21	5700.1
DM-20 4125 K5 VE	A	-12.3	-11.7	-6.6	K5 V	7.06	5700.0
DM-20 643 K7 V	A	23.0	28.8	-13.5	K7 V	8	1420.0
DM-21 1051	B	5.9	22.3	-9.1	M0 V	11.1	1850.1
DM-21 1051 M1 5	A	5.9	22.3	-9.1	M1 V	9.04	1850.0
DM-21 1377 M1 VE	A	-0.7	17.3	-7.0	M1 V	9.33	2290.0
DM-21 3781 K6 V	A	-33.8	-17.1	-15.2	K6 V	7.67	5290.0
DM-21 4352 K5	A	-18.5	-40.6	-17.9	K5 VII	9.5	6220.0
DM-21 5081 G4 5	A	7.1	-45.6	-17.8	G4 V	5	7220.0
DM-21 6267 M2 5E	A	23.6	-9.1	-9.7	M2 V	9.5	8670.0
DM-21 6267 SB	B	23.6	-9.1	-9.7	M0 V	13	8670.1
DM-22 1210 K2 V	B	1.8	24.4	-10.2	K2 V	6.6	2160.1
DM-22 2345 F6 V	C	-27.7	33.8	-18.1	F6 V	5.8	3140.2
DM-22 6219 M0 5	A	45.7	-1.6	-18.6	M0 V	9.7	9110.0
DM-23 11940 K5 V	A	-32.9	-29.9	-19.9	K5 V	7	5650.0
DM-23 15935 G7 5	A	17.4	-30.8	-15.0	G7 V	5.6	7735.0
DM-23 17699 M1 5	A	22.2	-6.3	-9.8	M1 V	8.46	8840.0
DM-23 332 M0 5E	A	43.7	9.5	-19.2	M0 V	8.06	400.0
DM-23 693 M1 5E	A	29.2	15.3	-13.9	M1 V	8.6	790.0
DM-23 8646 G0 V	A	-34.0	23.7	-18.2	G0 V	4.2	3640.0
DM-23 9765 M	A	-28.7	6.7	-13.3	M0 V	12.1	4131.0
DM-24 12677 M2 5	A	-17.9	-38.4	-19.4	M2 V	9.6	6200.0
DM-24 15668 K5 5	A	19.0	-36.1	-18.3	K5 V	5.5	7700.0
DM-24 16193 G8 V	A	26.9	-33.0	-19.0	G8 V	5.6	7960.0
DM-25 225	B	39.4	6.0	-18.7	M0 V	5.7	250.1
DM-25 225 G5 V	A	39.4	6.0	-18.7	G5 V	5.7	250.0
DM-25 3913 K0 VE	A	-10.3	38.8	-19.5	K0 V	6	2590.0
DM-26 12026 K1 VE	A	-3.3	-15.6	-8.0	K1 V	6.38	6630.0
DM-26 12026 K1 VE	B	-3.3	-15.6	-8.0	K1 V	6.41	6630.1
DM-26 12036 K5 VE	C	-3.3	-15.6	-7.9	K5 V	7.66	6640.0
DM-26 16501 K	A	41.2	-9.7	-20.9	K0 VII	11.6	8910.0
DM-26 828 G5 V	A	35.0	23.8	-20.9	G5 V	5.6	950.0
DM-26 8883 K5 V	A	-28.4	0.5	-14.8	K5 V	7	4530.0

Star Name		X	Y	Z	Spectra	Magn	No.
DM-27 14659 K1 V	A	13.1	-20.3	-12.5	K1 V	6.13	7850.0
DM-27 14659 SB	B	13.1	-20.3	-12.5	M0 V	13	7850.1
DM-28 16676 M3	A	21.5	-29.5	-19.4	M3 V	11.1	7910.0
DM-28 302 M	A	20.5	5.0	-40.8	M0 V	11.8	460.0
DM-28 694 K2 V	A	31.5	19.7	-20.2	K2 V	6.5	861.0
DM-29 8019 M4	A	-33.0	19.1	-22.2	M4 VI	10	3770.0
DM-30 19175 K5 V	A	33.5	-14.6	-21.4	K5 V	7.1	8620.0
DM-30 19255 K5 VE	A	36.2	-13.6	-22.3	K5 V	7.2	8680.0
DM-31 17815 M0 VE	A	15.9	-18.7	-15.1	M0 V	8.87	8030.0
DM-31 325 K3 V+	A	39.1	8.7	-23.8	K3 V	6.4	420.0
DM-31 325 SB	B	39.1	8.7	-23.8	M0 V	13	420.1
DM-31 6229 K0 V	A	-21.1	27.1	-21.0	K0 V	5.9	3090.0
DM-31 9113 M2.5	A	-30.1	3.5	-19.2	M2 VI	9.6	4330.0
DM-32 16135 M4.5 5E	A	15.5	-18.7	-15.6	M4 V	11.09	7990.0
DM-32 16135 M4.5 5E	B	15.5	-18.7	-15.6	M4 V	11.2	7990.1
DM-32 17321 K5 VE	A	20.7	-6.2	-13.5	K5 V	7.03	8790.0
DM-32 5613 A 7S	A	-15.6	18.6	-15.7	A0 VII	12.3	3180.0
DM-32 8179 K0 V	A	-26.0	3.1	-16.8	K0 V	6.09	4320.0
DM-34 11626 K3 V	A	-3.7	-18.8	-13.4	K3 V	7.03	6670.0
DM-34 11626 K5 V	B	-3.7	-18.8	-13.4	K5 V	7.9	6670.1
DM-34 11626 M2	C	-3.7	-18.8	-13.4	M2 V	10.89	6670.2
DM-34 4036 F5 V	A	-17.9	34.0	-22.8	F5 V	4.4	2920.0
DM-34 4036 K3	B	-17.9	34.0	-22.8	K3 VI	7	2920.1
DM-35 3233	B	-9.3	37.3	-27.4	M0 V	5.1	2550.1
DM-35 3233 F8 V	A	-9.3	37.3	-27.4	F8 V	4.8	2550.0
DM-36 13940 K3 V	A	7.8	-12.6	-10.9	K3 V	6.56	7830.0
DM-36 13940 M5 5	B	7.8	-12.6	-10.9	M5 V	12.7	7830.1
DM-36 2458 M2	A	1.7	27.8	-20.6	M2 V	11.5	2180.0
DM-37 10500 A 7S	B	-19.8	-29.3	-27.4	A0 VII	12.1	5990.1
DM-37 10500 G6 V	A	-19.8	-29.3	-27.4	G6 V	5.34	5990.0
DM-37 10765 M4	A	-8.7	-17.8	-15.2	M4 VI	11.2	6180.0
DM-37 10765 M7	B	-8.7	-17.8	-15.2	M7 V	16.6	6180.1
DM-37 8437 G3 5	A	-33.9	-10.6	-27.3	G3 V	4.6	5012.0
DM-38 1058 M5	A	22.6	24.8	-26.6	M5 VI	11.4	1300.0
DM-38 4789 K1 V	A	-17.2	20.1	-21.3	K1 V	6.46	3200.0
DM-39 10940	B	-10.6	-36.7	-31.5	M0 VI	9.5	6460.1
DM-39 10940 K5 V	A	-10.6	-36.7	-31.5	K5 V	7.6	6460.0
DM-39 14192 M0 VE	A	7.2	-6.5	7.8	M0 V	8.75	8250.0
DM-39 7301 G5 V	A	-25.4	1.7	-21.5	G5 V	4.85	4420.0
DM-40 5404 M	A	-20.9	14.9	-22.3	M0 V	12.3	3580.0
DM-40 9712 M4	A	-8.9	-11.5	-12.7	M4 VI	11.2	5880.0
DM-41 1288 K	A	16.1	29.6	-29.3	K0 VII	9.5	1612.0
DM-41 328 G2 V	A	25.1	11.5	25.2	G2 V	4.66	670.0
DM-42 249	B	31.6	6.0	-29.2	M0 VI	8.3	320.1
DM-42 249 K5 V	A	32.4	6.2	-30.0	K5 V	7.8	320.0
DM-42 5678 K5 V	A	-20.2	12.9	-22.6	K5 V	7.62	3700.0
DM-43 12343 K7 VE	A	1.2	-32.4	-30.8	K7 V	7.71	7070.0
DM-43 7228 K5 VE	A	-28.8	2.6	-28.1	K5 V	7.3	4350.0
DM-44 3045 M4.5	A	-5.0	19.6	-19.8	M4 V	11.8	2570.0
DM-44 3045 M4.5	B	-5.0	19.6	-19.8	M4 V	12	2570.1
DM-44 775 K6 VE+	A	19.2	15.0	-23.6	K6 V	8.4	1030.0
DM-44 775 SB	B	19.2	15.0	-23.6	M0 V	13	1030.1
DM-45 1184 M4.5 B	A	16.6	21.9	-27.4	M4 VI	10.7	1450.0
DM-45 13677 M0 V	A	7.5	-11.8	-14.2	M0 V	9.04	7840.0
DM-45 5378 M4	A	-17.3	11.8	-21.4	M4 VI	10.8	3670.0
DM-45 5627 M5.5	A	-25.9	15.4	-31.4	M5 VI	11	3750.0
DM-45 7872 M1	A	-29.7	-4.4	-30.7	M1 V	10.9	4770.0
DM-46 11370 G8 V	A	-3.4	-16.8	-18.1	G8 V	6.12	6660.0
DM-46 11370 M0 V	B	-3.4	-16.8	-18.1	M0 V	9.28	6660.1
DM-46 11540 M4	A	-1.6	-10.3	-11.1	M4 VI	11.03	6740.0
DM-46 12902	B	10.1	-30.8	-33.5	M0 VI	9.3	7500.1
DM-46 12902 K9 V	A	10.1	-30.8	-33.5	K9 V	9.3	7500.0
DM-46 3046	B	-8.8	25.3	-28.7	M0 V	7.5	2690.1
DM-46 3046 K2 V	A	-8.8	25.3	-28.7	K2 V	6.7	2690.0
DM-46 943 K4	A	19.8	21.7	-31.3	K4 VII	11.9	1260.0
DM-47 13928 G2 V	A	25.0	-16.8	-33.0	G2 V	4.9	8380.0
DM-47 502 M0	A	30.8	13.9	-36.0	M0 V	10	652.0
DM-48 1011 K7 V	A	14.6	19.6	-27.8	K7 V	8.29	1460.0
DM-48 11837 M0	A	-3.3	-25.8	-29.5	M0 V	10.1	6800.0
DM-48 12818 M4	A	6.2	-25.4	-29.4	M4 VI	10.6	7390.0
DM-49 2340 K0	A	-4.7	29.5	-35.7	K0 VII	9.2	2400.0

Star Name		X	Y	Z	Spectra	Magn	No.
DM-51 10924 M	B	-3.5	-23.6	-30.1	M0 V	14.4	6760.1
DM-51 10924 M0	A	-3.5	-23.6	-30.1	M0 V	10.1	6760.0
DM-51 12998 K2 V	A	23.4	-17.5	-36.3	K2 V	6.4	8330.0
DM-51 13128 M0	A	25.1	-15.5	-36.9	M0 VI	9.6	8410.0
DM-51 532 K0 V	A	19.4	12.2	-28.5	K0 V	5.86	860.0
DM-51 5974 K0	A	-16.9	1.4	-21.3	K0 VII	11.7	4380.0
DM-51 6859 M3	A	-16.5	-2.6	-21.2	M3 V	11.06	4790.0
DM-53 8617 K7 V	A	14.9	-18.1	-31.0	K7 V	8.45	7980.0
DM-53 889 K5 V	A	10.9	22.0	-33.2	K5 V	7.15	1670.0
DM-54 487 M	A	21.3	14.3	-35.8	M0 V	12	930.0
DM-54 9222	B	21.0	-10.4	-32.2	M0 VI	9.6	8530.1
DM-54 9222 G1 V	A	21.0	-10.4	-32.2	G1 V	4.9	8530.0
DM-56 328 K5 VE	B	10.7	4.8	-17.8	K5 V	6.83	660.1
DM-57 6303 K0 V	A	-12.4	-23.6	-41.7	K0 V	6.64	6150.0
DM-58 5564 K3 V	A	-13.4	-9.0	-27.0	K3 V	6.74	5420.0
DM-58 7076 K	A	2.7	-24.4	-39.7	K0 VII	11.1	7140.0
DM-58 8327 G4 V	A	22.7	-10.5	-40.1	G4 V	4.5	8570.0
DM-59 2351 M1	A	-12.0	10.0	-27.2	M1 V	11	3410.0
DM-60 3532 K7 V	A	-17.2	2.8	-31.8	K7 V	7.34	4280.0
DM-60 3532 M0 VE	B	-17.2	2.8	-31.8	M0 V	8.36	4280.1
DM-60 7821 K	A	17.6	-10.7	-35.8	K0 VII	10.9	8420.0
DM-62 780 M0 5EP	A	2.4	19.5	37.4	M0 V	8.45	2150.0
DM-63 110 K5 V	A	30.6	38.5	3.1	K5 V	7.2	1430.0
DM-68 1095 K0 V	A	-17.5	-2.4	-44.6	K0 V	6.3	4720.0
DM-68 47 K	A	10.4	3.2	-26.7	K0 VII	11.5	540.0
DM-73 1672 K3 V	A	10.4	-1.1	-34.3	K3 V	6.9	9020.0
Davout M5	A	-1.3	-10.9	-10.7	M5 V	12.8	6820.0
Delta Aquilae F0 IV	A	16.4	-43.5	2.4	F0 IV	2.6	7600.0
Delta Aquilae SB	B	16.4	-43.5	2.4	M0 V	13	7600.1
Delta Eridani K0 IVE	A	16.5	23.7	-5.1	K0 IV	3.77	1500.0
Delta Pavonis G8 V	A	3.8	-6.5	-17.1	G8 V	4.76	7800.0
Delta Trianguli G0 VE+	A	23.2	15.3	18.7	G0 V	4.8	920.0
Delta Trianguli SB	B	23.2	15.3	18.7	M0 V	13	920.1
Denebola A3 V	A	-41.4	2.4	10.9	A3 V	1.54	4480.0
Ellis G0 V	A	-6.5	-14.3	17.6	G0 V	10.97	6230.0
Epsilon Ceti	B	35.7	29.2	-9.9	M0 V	4.8	1054.1
Epsilon Ceti F8 V	A	35.7	29.2	-9.9	F8 V	4.77	1054.0
Epsilon Eridani K2 VE	A	6.4	8.4	-1.9	K2 V	6.13	1440.0
Epsilon Eridani UC	B	6.4	8.4	-1.9	M0 V	13	1440.1
Epsilon Indi K5 VE	A	5.2	-3.1	-9.4	K5 V	7	8450.0
Eta Bootis G0 IV	A	-26.8	-14.3	10.2	G0 IV	2.72	5340.0
Eta Bootis SB	B	-26.8	-14.3	10.2	M0 V	13	5340.1
Eta Cassiopei G0 V+	A	10.0	2.0	16.1	G0 V	4.6	340.0
Eta Cassiopei M0 V	B	10.0	2.0	16.1	M0 V	8.66	340.1
Eta Cephei K0 IVE	A	14.1	-16.3	39.8	K0 IV	2.72	8070.0
Fomalhaut A3 V	A	18.2	-5.4	-10.9	A3 V	2.03	8810.0
G 5-43 M3 6	A	22.7	29.3	9.3	M3 VI	11.9	1433.0
G 7-17 M9 7	A	22.2	38.0	14.8	M9 V	14.7	1572.0
G 24-16 M6 5E	A	18.1	-24.3	5.0	M6 V	13.2	7912.0
G 29-38 A 7	A	42.2	-6.3	3.7	A0 VII	12.5	8952.0
G 44-42 M4	A	-35.5	11.2	9.4	M4 V	13.5	4030.0
G 47-9 M5	B	-26.2	28.5	21.0	M5 V	12.5	3240.1
G107-69 M6 6	A	-10.8	26.8	32.4	M6 VI	13.2	2752.0
G107-69 SB M5 5	B	-10.8	26.8	32.4	M5 V	15.8	2752.1
G107-70 A 7	C	-10.1	25.1	30.4	A0 VII	15.4	2752.2
G107-70 SB M5 V	D	-10.3	25.1	30.4	M5 V	15.4	2752.3
G195-19 A D	A	-20.6	18.4	37.5	A0 VII	13	3391.0
G197-50 3 C	B	-24.4	-1.1	34.5	M3 V	14.7	4580.1
G200-38 K1	C	-23.1	-16.8	38.5	K1 VII	12.7	5490.2
Gamma Leporis F6 V	A	1.8	24.4	-10.2	F6 V	4.05	2160.0
Gamma Pavonis F8 V	A	8.9	-7.4	-25.6	F8 V	4.53	8270.0
Gamma Serpenti F6 V	A	-20.3	-33.1	10.9	F6 V	3.4	6030.0
Gamma Virginis F0 V	A	-32.5	-5.6	-0.7	F0 V	3.46	4820.0
Gamma Virginis F0 V	B	-32.5	-5.6	-0.7	F0 V	3.48	4820.1
Groombridge 34 M1 V	A	8.1	0.5	7.8	M1 V	10.32	150.0
Groombridge 34 M6 V	C	8.3	0.5	7.9	M6 V	13.29	150.2
Groombridge 34 SB	B	8.3	0.5	7.9	M0 V	13	150.1
Haifeng M8 5E	A	13.0	7.3	3.3	M8 V	13.91	831.0
Henry's Star G8 VI	A	-22.7	0.9	17.7	G8 VI	6.71	4510.0
Hochbaden K6 5	A	-24.9	-12.6	14.3	K6 V	7.26	5280.0
Hunjiang M4 V	A	11.4	0.1	-8.9	M4 V	10.39	10.0

Star Name		X	Y	Z	Spectra	Magn	No.
Iota Horologii G3 IV	A	22.3	18.9	-36.2	G3 IV	4.63	1080.0
Iota Pegasi F5 V	A	34.4	-19.0	18.4	F5 V	3.14	8480.0
Iota Pegasi SB	B	34.4	-19.0	18.4	M0 V	13	8480.1
Iota Persei G4 V	A	17.0	17.8	28.7	G4 V	3.72	1240.0
Iota Piscium F7 V	A	45.4	-4.6	4.2	F7 V	3.39	9040.0
Iota Ursae Majoris	D	-22.9	23.6	36.8	M0 V	10.2	3310.3
Iota Ursae Majoris A7 V	A	-22.9	23.6	36.8	A7 V	2.24	3310.0
Iota Ursae Majoris M1 5	B	-22.9	23.6	36.8	M1 V	9.9	3310.1
Iota Ursae Majoris SB	C	-22.9	23.6	36.8	M0 V	13	3310.2
Kapetyn's Star M0 V	A	1.9	8.7	-9.1	M0 V	10.85	1910.0
Kappa Reticuli G5 VE	A	19.8	23.0	1.6	G5 V	4.99	1370.0
Kimanjano K4 V	A	-20.8	-3.6	14.3	K4 V	8.2	4802.0
King K7 V	A	-4.0	-24.2	0.9	K7 V	8.15	6730.0
Kruger 60 A M3 5	A	6.3	-2.8	10.8	M3 V	11.87	8600.0
Kruger 60 B M4.5 5E	B	6.3	-2.8	10.8	M4 V	13.3	8600.1
L 24 52 A 7	A	4.1	-4.0	-40.9	A0 VII	13	8201.0
L 49-19 K	A	6.3	-2.0	-25.9	K0 VII	12.1	8770.0
L 68-27 M	B	-6.9	-0.8	-20.3	M0 V	14.4	4670.1
L 68-28 K0	A	-6.9	-0.8	-20.3	K0 VII	12.5	4670.0
L 74-113 M	A	-4.7	-13.4	-45.9	M0 V	12.2	6370.0
L 89-27 M	A	16.5	10.1	-45.5	M0 V	12.6	850.0
L 97-12	A	-3.4	6.3	-17.5	M5 V	15.5	2930.0
L 115-21 M	A	8.8	-15.5	-39.7	M0 V	12.5	7740.0
L 115-21 M	B	8.8	-15.5	-39.7	M0 V	13.8	7740.1
L 119-21 K	A	14.4	-5.7	-34.2	K0 VII	12.7	8650.0
L 127-97 M	A	12.8	11.8	-35.7	M0 V	10.3	1180.0
L 145-141 A0 7	A	-6.8	.5	-14.3	A0 VII	13.01	4400.0
L 182-44 M	A	-3.5	23.4	-38.6	M0 V	12.2	2380.0
L 192-72 M C	A	-22.5	4.5	-35.7	M0 V	12.2	4220.0
L 258-146 K	A	-20.3	-9.6	-30.7	K0 VII	14	5240.0
L 283-7 A	B	25.2	-15.5	-36.9	A0 V	11.7	8410.1
L 316-62 M3	A	-21.0	21.3	-32.4	M3 V	13.7	3330.0
L 339-19 G	A	-7.7	-20.3	-22.3	G0 VII	14.5	6330.0
L 347-14 M7.5	A	4.3	-12.3	-13.4	M7 V	14.9	7540.0
L 355-62 M	A	21.0	-13.3	-26.9	M0 V	11.9	8386.0
L 362-81 A 7S	A	19.4	-0.1	-18.4	A0 VII	13.48	9150.0
L 396-7 M C	A	-28.8	3.8	-25.1	M0 V	12.5	4310.0
L 480-69 K	A	-18.9	-25.3	-24.4	K0 VII	13.4	5900.0
L 489-58	B	7.3	-33.2	-27.2	M0 V	15	7320.1
L 489-58 G0 6	A	7.3	-33.2	-27.2	G0 VI	11.4	7320.0
L 597-31 M	A	-5.6	42.3	-21.8	M0 V	11.9	2360.0
L 674-15 M 5	A	-9.6	14.9	-7.0	M0 V	15	3000.0
L 675-81 M	A	-16.5	19.8	-11.2	M0 V	13.5	3170.0
L 678-39 K	A	-20.0	14.8	-9.8	K0 VII	13.1	3570.0
L 714-88 M5	A	32.0	-23.3	-18.0	M5 V	14	8360.0
L 715-89 M	A	33.5	-19.6	-14.0	M0 V	12.8	8430.0
L 717-22 M4 5E	C	23.6	-9.1	-9.7	M4 V	11.8	8670.2
L 724-32 M5 5E	A	20.4	6.3	-6.7	M5 V	12.4	541.0
L 736-30 M3	A	10.9	35.7	-12.1	M3 V	12.1	1800.0
L 737-9 M5.5	A	7.8	33.0	-11.2	M5 V	11.9	1900.0
L 745-46 F0 7	A	-13.8	30.1	-10.4	F0 VII	12.9	2830.0
L 745-46 M 5	B	-13.8	30.1	-10.4	M0 V	18.4	2830.1
L 768-119 M5	A	-16.0	-22.7	-9.8	M5 V	11.9	5950.0
L 789-6 M7 5E	A	9.5	-3.7	-2.9	M7 V	14.6	8660.0
L 820-19	B	-26.4	28.3	-8.9	M0 V	12.3	3260.1
L 820-19 M6	A	-26.4	28.3	-8.9	M6 V	12	3260.0
L 824-28 M0 5	A	-33.7	16.7	-7.8	M0 V	10.8	3860.0
L 829-26 M	A	-38.4	2.5	-7.9	M0 V	13	4430.0
L 850-62 M5.5	A	11.6	-43.1	-10.9	M5 V	13.9	7410.0
L 856-54	B	27.0	-28.8	-10.1	M0 V	15.2	8100.1
L 856-54 M5	A	27.0	-28.8	-10.1	M5 V	14	8100.0
L 870-2 A 7	A	37.5	16.6	-3.8	A0 VII	12.3	640.0
L 886-6 A 7	A	-11.9	44.7	-5.2	A0 VII	15.2	2610.0
L 897-16 M C	A	-29.5	11.1	-3.7	M0 V	12.8	3990.0
L 901-10 M4.5	A	-39.0	1.5	-4.9	M4 V	11.6	4520.0
L 935-50 A	A	41.6	-8.9	-5.1	A0 V	14.9	8931.0
L 968-22 M0 5	A	-24.9	13.0	-1.2	M0 V	11.12	3810.0
L 989-20	B	-8.9	-39.3	-1.3	M0 V	11.7	6600.1
L 989-20 G	A	-8.9	-39.3	-1.3	G0 VII	11.5	6600.0
L 997-21 A 7S	A	16.8	-31.2	-0.8	A0 VII	13.51	7720.0
L1064-75 M5	A	2.9	-49.3	1.3	M5 VI	11.6	7083.0
L1113-55 M4 5E	A	2.9	-49.3	1.4	M5 VI	11.6	7083.0
L1154-29 M5 5	A	35.9	2.0	8.5	M5 V	13.5	120.0
L1272-21 M6	B	-20.0	-26.8	10.7	M6 V	15	5890.1
L1303-10 M6	A	17.6	13.6	10.2	M6 V	15.1	1020.0
L1346-53 M4	A	-15.4	-26.8	11.6	M4 V	14.2	6090.0
LP101-15 M4 5E	A	-9.9	-24.9	41.5	M4 V	12	6301.0
LP101-15 SB	B	-9.9	-24.9	41.5	M0 V	13	6301.1
LP101-16 7	C	-9.9	-24.9	41.5	M0 V	14.1	6301.2
LP425-140	A	-14.1	17.2	7.4	M6 V	19.9	3161.0
LP658-2 K 7E	A	0.6	19.5	-1.5	K0 VII	15.62	2232.0
Lacaille 9352 M2 VE	A	8.9	-2.3	-6.8	M2 V	9.59	8870.0
Lambda Aurigae G0 V	A	7.1	36.5	31.3	G0 V	3.84	1970.0
Lambda Serpenti G0 V	A	-19.3	-28.6	4.5	G0 V	4.3	5980.0
Lowne 1	A	18.9	40.3	15.6	M6 V	15	1681.0
Mu Arae G5 V	A	-2.4	-27.2	-34.7	G5 V	4.9	6910.0
Mu Cassiopei G5 VI	A	13.9	4.0	20.4	G5 VI	5.75	530.0
Mu Cassiopei M8 5	B	13.9	4.0	20.4	M8 V	8.75	530.1
Mu Herculis G5 IV	A	-1.6	-23.3	12.2	G5 IV	3.89	6950.0
Mu Herculis M4 5	C	-1.6	-23.3	12.2	M4 V	11.26	6950.2
Mu Herculis M4 5E	B	-1.6	-23.3	12.2	M4 V	10.8	6950.1
Neubayern K7 VE	A	-8.4	4.4	11.1	K7 V	8.32	3800.0
New Melbourne M1 5	A	-2.6	-24.2	8.1	M1 V	10.14	6860.0
Nu Phoenicis F8 V	A	29.5	9.7	-32.1	F8 V	4.2	550.0
Nyotekundu M8 5E	A	-7.3	2.1	0.9	M8 V	16.68	4060.0
Omicron2 Eridani K1 VE	A	7.0	14.0	-2.2	K1 V	5.99	1660.0
Pi3 Orionis F6 V	A	7.7	23.6	3.0	F6 V	3.76	1780.0
Pollux K0 III	A	-13.4	27.8	16.5	K0 III	.98	2860.0
Procyon A F5 IV	A	-4.7	10.3	1.0	F5 IV	2.64	2800.0
Procyon B F 7	B	-4.7	10.3	1.0	F0 VII	13	2800.1
Proxima Centauri M5 5E	A	-1.6	-1.2	-3.8	M5 V	15.45	5510.0
Psi Capricorni F4 V	A	22.3	-26.0	-16.3	F4 V	3.7	8050.0
Psi5 Aurigae G0 V	A	-6.6	34.5	33.5	G0 V	4.37	2450.0
Qinyuan M5.5 5	A	7.6	3.4	-2.8	M5 V	15.27	650.0
Queen Alice's Star K4 V	A	-13.7	-2.1	14.3	K4 V	8.2	4771.0
Red Speck M3 5	A	-3.2	-16.4	15.0	M3 V	10.91	6610.0
Rho Eridani K2 V	A	10.7	4.8	-17.8	K2 V	6.67	660.0
Ross 28 M5	A	11.6	22.2	32.7	M5 V	12.7	1640.0
Ross 41 M5	A	4.2	27.6	4.7	M5 V	12.78	2030.0
Ross 42 M4 5E+	A	6.0	45.4	7.9	M4 V	10.73	2060.0
Ross 42 SB	B	6.0	45.4	7.9	M0 V	13	2060.1
Ross 52 M5	A	-22.8	-21.2	13.6	M5 VI	11.5	5680.0
Ross 52 M5	B	-22.8	-21.2	13.6	M5 V	12.1	5680.1
Ross 64 M6	A	-2.4	24.4	10.6	M6 V	13.6	2320.0
Ross 92 M6	A	-26.8	19.0	13.4	M6 V	15.5	3590.0
Ross 119 M	A	-33.8	1.2	6.0	M0 V	14.1	4521.0
Ross 128 M5 5	A	-10.9	0.7	0.2	M5 V	13.5	4470.0
Ross 165	B	12.5	-25.9	14.6	M0 V	13.6	7660.1
Ross 165 M4.5 5	A	12.5	-25.9	14.6	M4 V	12.6	7660.0
Ross 188 M6	A	23.5	-30.8	30.6	M6 V	14.4	7920.0
Ross 193 M4 5E	A	33.8	-35.7	-4.4	M4 V	11	8120.0
Ross 226 M4	A	21.1	-6.5	39.4	M4 V	13.5	8780.0
Ross 248 M6 5E	A	7.3	-0.7	7.1	M6 V	14.8	9050.0
Ross 249 M1	A	27.8	-1.8	31.8	M1 V	11.5	9070.0
Ross 417 M5	A	-3.5	46.7	-5.5	M5 V	13.2	2313.0
Ross 486 M4 5	A	-36.2	-14.2	-1.3	M4 V	10.9	5120.0
Ross 486 M6 5	B	-36.2	-14.2	-1.3	M6 V	13.8	5120.1
Ross 508 M6	A	-21.8	-26.3	10.8	M6 V	14.8	5850.0
Ross 555 M4	A	32.2	16.6	-7.1	M4 VI	10.9	780.0
Ross 594 M7	A	9.9	23.2	21.0	M7 V	13.7	1700.0
Ross 614	B	-1.6	12.8	-0.7	M0 V	16.58	2340.1
Ross 614 M7 5E	A	-1.6	12.8	-0.7	M7 V	13.08	2340.0
Ross 619 M5 5	A	-11.4	18.0	3.3	M5 V	13.66	2990.0
Ross 627 F 7	A	-35.6	6.0	14.3	F0 VII	13.9	4270.0
Ross 695 M4 5	A	-28.1	-2.8	-9.2	M4 V	11.9	4650.0
Ross 802 M5	A	-20.9	-28.3	-8.8	M5 V	13.6	5920.0
Ross 845 M5.5 5E	A	-37.4	-23.9	-9.3	M5 V	12.8	5402.0
Ross 848 M5	A	-28.9	-19.8	-5.8	M5 V	12.8	5450.0
Ross 863 M3	A	-7.1	-28.9	11.7	M3 V	11.6	6550.0
Ross 867 M5 5E	B	-6.2	-33.0	16.7	M5 V	12.6	6690.1
Ross 868 M4 5E	A	-5.7	-30.6	15.4	M4 V	11.2	6690.0
Ross 974 K 6	A	-39.9	-10.6	-1.4	K0 VI	12.3	4950.0

Star Name		X	Y	Z	Spectra	Magn	No.
Ross 989 M4.5 5E	C	-11.3	27.6	21.9	M4 V	11.48	2770.2
Serurier M4.5 5E	A	1.7	-8.5	-3.9	M4 V	13.3	7290.0
Sigma Draconis K0 V	A	2.5	-6.0	17.3	K0 V	5.92	7640.0
Sirius A A1 V	A	-1.6	8.1	-2.5	A1 V	1.42	2440.0
Sirius B A 7	B	-1.6	8.1	-2.5	A0 VII	11.56	2440.1
Sol G2 V	A	0.0	0.0	0.0	G2 V	4.67	0.0
Tau Ceti G8 VP	A	10.1	4.8	-3.3	G8 V	5.72	710.0
Tau1 Eridani F6 V	A	33.9	29.1	-15.3	F6 V	3.7	1110.0
Theta Bootis F7 V	A	-23.9	-17.3	37.8	F7 V	3.22	5490.0
Theta Bootis M3.5	B	-23.9	-17.3	37.8	M3 VI	10.3	5490.1
Theta Centauri K0 III	A	-33.3	-20.0	-28.3	K0 III	0.9	5390.0
Theta Persei F7 V	A	20.6	17.4	31.1	F7 V	3.62	1070.0
Theta Persei M2 5E	B	20.6	17.4	31.1	M2 V	9.36	1070.1
UV Ceti M5.5 5F	B	7.6	3.4	-2.8	M5 V	15.8	650.1
V 371 Orionis M3 5	A	6.1	48.9	1.6	M3 V	10.8	2071.0
VB 1 M VII	C	1.7	24.4	-10.1	M0 V	13	2160.2
VB 4	B	-26.0	3.1	-16.8	M0 V	15	4320.1
VB 5	B	-25.4	1.7	-21.5	M0 V	15	4420.1
VB 8	C	-5.8	-19.2	-3.0	M0 V	17.69	6440.2
VB 9 M	B	4.0	-27.5	28.4	M0 V	14.5	7200.1
VB 10 M5 5E	B	5.9	-17.8	1.6	M5 V	19.3	7520.1
VB 11 C 7	B	33.8	-35.7	-4.4	M0 V	15.8	8120.1
Van Maanen's Star G1 7	A	13.3	2.7	1.2	G1 VII	14.26	350.0
Vega A0 V	A	3.1	-20.3	16.4	A0 V	0.5	7210.0
Vogelheim K3 V	A	-29.6	-5.9	19.4	K3 V	8	4841.0
WX Ursae Majoris M8 5E	B	-12.3	3.1	12.1	M8 V	15.88	4120.1
Wolf 47 M7 5EF	A	13.7	3.6	26.9	M7 V	13.81	510.0
Wolf 219 A 7	A	24.3	35.3	14.2	A0 VII	14.5	1510.0
Wolf 358 M5 5	A	-21.7	7.0	2.8	M5 V	12.42	4020.0
Wolf 414 M5	A	-41.1	-4.8	6.3	M5 VI	11.5	4690.0
Wolf 424	B	-13.8	-1.9	2.2	M0 V	15.2	4730.1
Wolf 424 M5.5 5E	A	-13.8	-1.9	2.2	M5 V	14.98	4730.0
Wolf 433 M4 5	A	-38.4	-6.2	8.2	M4 V	10.9	4800.0
Wolf 437 M4 5	A	-27.7	-5.6	4.9	M4 V	11.68	4860.0
Wolf 457 C 7	A	-38.5	-9.9	2.6	G2 VII	15.5	4920.0
Wolf 461 M5 5E	A	-34.9	-9.1	3.7	M5 V	13	4931.0
Wolf 461 SB	B	-34.9	-9.1	3.7	M0 V	13	4931.1
Wolf 489 K 7	A	-22.6	-9.9	1.7	K0 VII	15.36	5180.0
Wolf 534 M4	A	-35.7	-24.3	-5.4	M4 V	13.9	5430.0
Wolf 629 M4 6	A	-5.8	-19.2	-2.9	M4 VI	12.73	6430.0
Wolf 629 SB	B	-5.8	-19.2	-2.9	M0 V	13	6430.1
Wolf 906 M3	A	27.8	-28.1	-4.6	M3 VI	10.6	8160.0
Wolf 918 M3	A	24.7	-23.5	-8.2	M3 VI	10.5	8210.0
Wolf 922 M4.5 5E	A	18.9	-14.7	-4.3	M4 V	12.59	8310.0
Wolf 1039 M4	A	40.4	-5.1	0.0	M4 VI	10.6	8990.0
Wolf 1056 M4 5	A	34.7	5.5	20.5	M4 V	10.54	260.0
Wolf 1084 M5 5E	A	16.5	-19.5	36.6	M5 V	14.4	8020.0
Wolf 1421 M2 5	A	-18.3	36.9	15.4	M2 V	10.7	2890.0
Wolf 1466 M0.5	A	7.9	-48.0	-9.1	M0 V	10.5	7230.0
Wolf 1539 M4 5E	A	11.9	37.6	4.4	M4 V	11.6	1790.0
Wolf 1561 M4.5 5E	A	28.0	-13.9	-5.0	M4 V	13.6	8520.0
Wolf 1561 M5 5E	B	28.0	-13.9	-5.0	M5 V	14.6	8520.1
Xi Bootis G8 VE	A	-15.4	-14.0	7.2	G8 V	5.53	5660.0
Xi Bootis K4 VE	C	-15.4	-14.0	7.2	K4 V	7.69	5660.2
Xi Bootis SB	B	-15.4	-14.0	7.2	M0 V	15.0	5660.1
Xi Ursae Majoris G0 VE	A	-25.0	4.9	15.7	G0 V	4.9	4230.0
Xi Ursae Majoris G0 VE	C	-25.0	4.9	15.7	G0 V	5.38	4230.2
Xi Ursae Majoris SB	B	-25.0	4.9	15.7	M0 V	13.0	4230.1
Xi Ursae Majoris SB	D	-25.0	4.9	15.7	M0 V	13.0	4230.3
Xiuning M1 V	A	7.8	-6.1	-11.6	M1 V	10.32	8320.0
YY Geminorum K6 V	E	-15.6	36.9	25.0	K6 V	8.26	2780.4
YY Geminorum SB K6 V	F	-15.6	36.9	25.0	K6 V	9.8	2780.5
YZ Canis Minoris M4.5 5	A	-8.5	17.7	1.2	M4 V	12.29	2850.0
Zeta Doradus F8 V	A	6.1	24.9	-40.5	F8 V	4.1	1890.0
Zeta Draconis G0 V	A	-5.0	-11.0	-33.0	G0 V	4.7	6240.0
Zeta Draconis SB	B	-5.0	-11.0	-33.0	M0 V	13.0	6240.1
Zeta Herculis G0 IV	A	-9.2	-25.1	16.4	G0 IV	2.97	6350.0
Zeta Herculis K0 5	B	-9.2	-25.1	16.4	K0 V	5.57	6350.1
Zeta Tucanae G2 V	A	9.7	0.7	-21.2	G2 V	4.96	170.0
Zeta1 Reticuli G2 V	A	10.9	12.6	-32.6	G2 V	5.28	1360.0
Zeta2 Reticuli G1 V	A	10.9	12.7	-32.6	G1 V	4.98	1380.0

COMPANIONS

Many of the systems in the *Near Star List* contain binary or multiple stars. This companion list shows each multiple star in the *Near Star List* and indicates the names of all companion stars for it.

Name: Companions
26 Draconis G1 V A: 26 Draconis B
26 Draconis M0.5 5 B: 26 Draconis A
44 I Bootis G1 5 A: 44 I Bootis B, C
44 I Bootis G2 5 B: 44 I Bootis A, C
44 I Bootis SB G2 5 C: 44 I Bootis A, B
61 Cygni A K5 VE A: 61 Cygni A B, 61 Cygni B C
61 Cygni A UC B: 61 Cygni A A, 61 Cygni B C
61 Cygni B K7 VE C: 61 Cygni A A, 61 Cygni A B
70 Ophiuchi K0 VE A: 70 Ophiuchi B, DM+ 2 3482 C
70 Ophiuchi UC B: 70 Ophiuchi A, DM+ 2 3482 C
85 Pegasi G3 V A: DM+26 4734 B, C
AC+18 1890-112 M4 A: L1272-21 B
AC+20 1463-148 M2 6 A: AC+20 1463-154 B
AC+20 1463-154 M2 6 B: AC+20 1463-148 A
AC+32 54804 M5 5 A: AC+32 54804 B
AC+32 54804 M5 5 B: AC+32 54804 A
AC+32 86401 A 7 B: AC+32 86422 A
AC+32 86422 M5 5 A: AC+32 86401 B
AC+38 23616 M5 5E A: AC+38 23616 B
AC+38 23616 SB B: AC+38 23616 A
AC+39 57322 C: AC+39 57322 A, B
AC+39 57322 M3 5 B: AC+39 57322 A, C
AC+39 57322 M3 5E A: AC+39 57322 B, C
AC+39 60670 B: AC+39 60670 A
AC+39 60670 M0 5 A: AC+39 60670 B
AC+58 25001 M4 5 A: AC+58 25002 B
AC+58 25002 A D B: AC+58 25001 A
AC+65 6955 M3 5 A: AC+65 6955 B
AC+65 6955 SB B: AC+65 6955 A
AC- 7 342-397 M5 5 B: AC- 7 342-402 A
AC- 7 342-402 A 7WK A: AC- 7 342-397 B
Alpha Centauri G2 V A: Alpha Centauri B
Alpha Centauri K0 V B: Alpha Centauri A
Alpha Fornacis B: Alpha Fornacis A
Alpha Fornacis F8 IV A: Alpha Fornacis B
Augereau M2 VE A: WX Ursae Majoris B
Bessieres M2 VE A: Bessieres B
Bessieres UC B: Bessieres A
Beta Aquilae G8 IV A: Beta Aquilae B
Beta Aquilae M3 5 B: Beta Aquilae A
Beta Cassiopei F2 IV A: Beta Cassiopei B
Beta Cassiopei SB B: Beta Cassiopei A
Broward M5 5 A: DM-12 4523 B
Capella A G8 III A: Capella B B
Capella B F5 III B: Capella A A
Capella H A M2 5 A: Capella H B B
Capella H B M5 5 B: Capella H A A
Castor A A1 V A: Castor B, C, D, YY Geminorum E, F
Castor A SB A1 V B: Castor A, C, D, YY Geminorum E, F
Castor B A5 V C: Castor A, B, D, YY Geminorum E, F
Castor B SB A5 V D: Castor A, Castor B, C, YY Geminorum E, F
Catherine's Star B: Henry's Star A
Chi Draconis F7 V A: Chi Draconis B
Chi Draconis SB B: Chi Draconis A
Clarkesstar M4.5 5E A: DM- 8 4352 B, VB 8 C
DM+ 2 3482 K6 VE C: 70 Ophiuchi A, 70 Ophiuchi B
DM+ 4 4048 M3.5 VE A: VB 10 B
DM+ 5 1668 M5 5 A: DM+ 5 1668 B

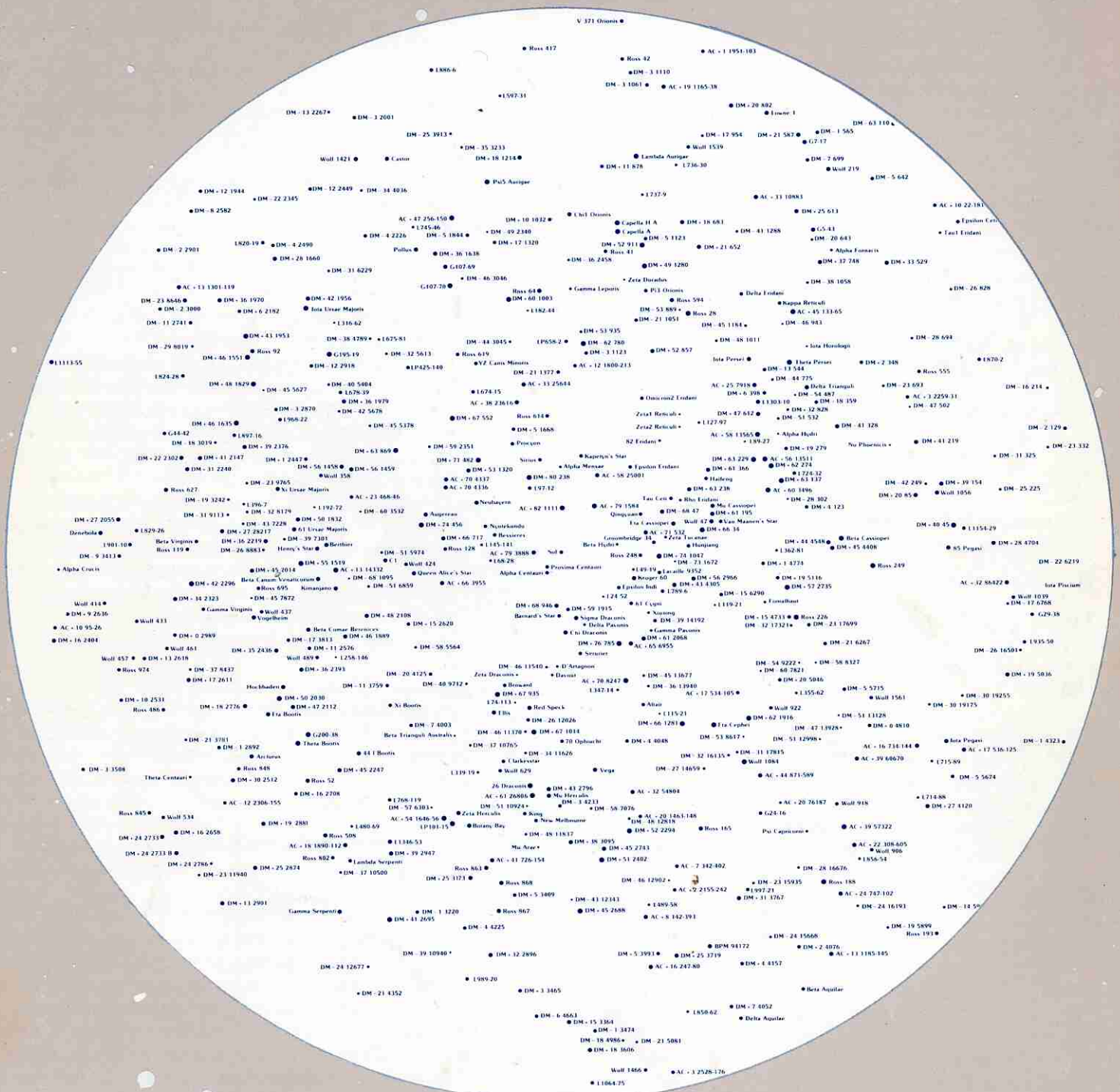
DM+ 5 1668 UC B: DM+ 5 1668 A
DM+ 5 3409 B: DM+ 5 3409 A
DM+ 5 3409 M1 V A: DM+ 5 3409 B
DM+ 6 398 K3 V+ A: DM+ 6 398 B, C
DM+ 6 398 M4 5 C: DM+ 6 398 A, DM+ 6 398 B
DM+ 6 398 UC B: DM+ 6 398 A, C
DM+10 1032 B: DM+10 1032 A
DM+10 1032 M3 5 A: DM+10 1032 B
DM+11 2576 M1 V A: DM+11 2576 B
DM+11 2576 SB B: DM+11 2576 A
DM+15 4733 M2 5E A: DM+15 4733 B
DM+15 4733 SB B: DM+15 4733 A
DM+17 2611 K2 V A: DM+17 2611 B
DM+17 2611 M2 5E B: DM+17 2611 A
DM+19 2881 K1 V A: DM+19 2881 B
DM+19 2881 SB B: DM+19 2881 A
DM+19 5116 M4 5E A: DM+19 5116 B
DM+19 5116 M6 5E B: DM+19 5116 A
DM+24 2733 M1 5 A: DM+24 2733 B
DM+24 2733 M2 5 B: DM+24 2733 A
DM+24 2786 G2 5 A: DM+24 2786 B
DM+24 2786 SB B: DM+24 2786 A
DM+26 4734 M5 V B: 85 Pegasi A, DM+26 4734 C
DM+26 4734 SB M3 V C: 85 Pegasi A, DM+26 4734 B
DM+27 2296 K6 5 B: Hochbaden A
DM+27 4120 M0 5E A: DM+27 4120 B
DM+27 4120 SB B: DM+27 4120 A
DM+28 1660 G8 V A: G 47-9 B
DM+31 2240 K9 VE A: DM+31 2240 B
DM+31 2240 M2 5 B: DM+31 2240 A
DM+31 3767 M1 5 A: DM+31 3767 B
DM+31 3767 M2 B: DM+31 3767 A
DM+35 2436 M0 5 A: DM+35 2436 B
DM+35 2436 M3 B: DM+35 2436 A
DM+36 1638 M3.5 5E A: DM+36 1638 B, Ross 989 C
DM+36 1638 SB B: DM+36 1638 A, Ross 989 C
DM+36 1979 B: DM+36 1979 A
DM+36 1979 G8 IV A: DM+36 1979 B
DM+39 2376 B: DM+39 2376 A
DM+39 2376 M2 5E A: DM+39 2376 B
DM+42 1956 B: DM+42 1956 A
DM+42 1956 F5 V A: DM+42 1956 B
DM+43 4305 M4.5 5E A: DM+43 4305 B
DM+43 4305 SB B: DM+43 4305 A
DM+45 2505 M3.5 B: Red Speck A
DM+45 2743 M2 5 A: VB 9 B
DM+45 4408 K9 5E A: DM+45 4408 B, C
DM+45 4408 M0 5E C: DM+45 4408 A, B
DM+45 4408 SB B: DM+45 4408 A, C
DM+47 2112 M3 5E A: DM+47 2112 B
DM+47 2112 M3 5E B: DM+47 2112 A
DM+48 2108 B: DM+48 2108 A
DM+48 2108 M2 5E A: DM+48 2108 B
DM+51 2402 K6 VE A: DM+51 2402 B
DM+51 2402 SB B: DM+51 2402 A
DM+53 1320 M0 VE A: DM+53 1321 B
DM+53 1321 M0 VE B: DM+53 1320 A
DM+55 1519 M2 5E A: G197-50 B
DM+59 1915 M4 5 A: DM+59 1915 B
DM+59 1915 M5 5 B: DM+59 1915 A
DM+61 195 M2 5E A: DM+61 195 B
DM+61 195 SB B: DM+61 195 A
DM+66 34 M2.5 5E A: DM+66 34 B
DM+66 34 M4.5 B: DM+66 34 A
DM+67 1014 K0 V A: DM+67 1014 B
DM+67 1014 SB B: DM+67 1014 A
DM+67 552 M1 5 A: DM+67 552 B, DM-22 2345 C
DM+67 552 SB B: DM+67 552 A, DM-22 2345 C
DM+67 935 M0 VE. A: DM+67 935 B
DM+67 935 M3 5 B: DM+67 935 A
DM+68 946 M3.5 V A: DM+68 946 B
DM+68 946 SB B: DM+68 946 A
DM+71 482 K5 V A: DM+71 482 B
DM+71 482 M0 5 B: DM+71 482 A
DM+74 1047 K3 V A: DM+74 1047 B, DM+74 1047 C
DM+74 1047 M2 C: DM+74 1047 A, DM+74 1047 B
DM+74 1047 SB B: DM+74 1047 A, DM+74 1047 C
DM+74 456 K5 5 A: DM+74 456 B
DM+74 456 M2 B: DM+74 456 A
DM- 1 565 K5 5E A: DM- 1 565 B, C
DM- 1 565 M3 5E+ B: DM- 1 565 A, C
DM- 1 565 SB C: DM- 1 565 A, B
DM- 2 2901 F6 V A: DM- 2 2902 B
DM- 2 2902 K0 B: DM- 2 2901 A
DM- 3 1061 K3 V A: DM- 3 1061 B
DM- 3 1061 M2 B: DM- 3 1061 A
DM- 3 2001 K2 VE A: DM- 3 2002 B
DM- 3 2002 K5 5 B: DM- 3 2001 A
DM- 3 2870 M2 5 A: DM- 3 2870 B
DM- 3 2870 SB B: DM- 3 2870 A
DM- 3 3508 K6 5 A: DM- 3 3508 B
DM- 3 3508 SB B: DM- 3 3508 A
DM- 5 1123 K3 V+ A: DM- 5 1123 B
DM- 5 1123 SB B: DM- 5 1123 A
DM- 5 1844 K6 5 A: DM- 5 1844 B
DM- 5 1844 M2 B: DM- 5 1844 A
DM- 6 4663 M2 5 A: DM- 6 4663 B
DM- 6 4663 SB B: DM- 6 4663 A
DM- 7 781 A 7 B: Omicron2 Eridani A, DM- 7 781 C
DM- 7 781 M4.5 5E C: Omicron2 Eridani A, DM- 7 781 B
DM- 8 2582 M0 5 A: DM- 8 2582 B
DM- 8 2582 SB B: DM- 8 2582 A
DM- 8 4352 M4.5 5 B: Clarkesstar A, VB 8 C
DM-12 2918 M4 5 A: DM-12 2918 B
DM-12 2918 M4 5 B: DM-12 2918 A
DM-12 4523 SB B: Broward A
DM-13 2267 B: DM-13 2267 A
DM-13 2267 G1 V A: DM-13 2267 B
DM-14 5936 K1 VE A: DM-14 5936 B
DM-14 5936 M0 B: DM-14 5936 A
DM-17 6768 B: DM-17 6768 A
DM-17 6768 M5 A: DM-17 6768 B
DM-19 3242 M C B: DM-19 3242 A
DM-19 3242 M0 5 A: DM-19 3242 B
DM-19 5899 B: DM-19 5899 A
DM-19 5899 M2 5 A: DM-19 5899 B
DM-20 4123 M2 V B: DM-20 4125 A
DM-20 4125 K5 VE A: DM-20 4123 B
DM-21 1051 B: DM-21 1051 A
DM-21 1051 M1 5 A: DM-21 1051 B
DM-21 6267 M2 5E A: DM-21 6267 B, L 717-22 C
DM-21 6267 SB B: DM-21 6267 A, L 717-22 C
DM-22 1210 K2 V B: Gamma Leporis A, VB 1 C
DM-22 2345 F6 V C: DM+67 552 A, DM+67 552 B
DM-25 225 B: DM-25 225 A
DM-25 225 G5 V A: DM-25 225 B
DM-26 12026 K1 VE A: DM-26 12026 B, DM-26 12036 C
DM-26 12026 K1 VE B: DM-26 12026 A, DM-26 12036 C
DM-26 12036 K5 VE C: DM-26 12026 A, B
DM-27 14659 K1 V A: DM-27 14659 B
DM-27 14659 SB B: DM-27 14659 A
DM-31 325 K3 V+ A: DM-31 325 B
DM-31 325 SB B: DM-31 325 A
DM-32 16135 M4.5 5E A: DM-32 16135 B
DM-32 16135 M4.5 5E B: DM-32 16135 A
DM-32 8179 K0 V A: VB 4 B
DM-34 11626 K3 V A: DM-34 11626 B, C
DM-34 11626 K5 V B: DM-34 11626 A, C
DM-34 11626 M2 C: DM-34 11626 A, B
DM-34 4036 F5 V A: DM-34 4036 B
DM-34 4036 K3 B: DM-34 4036 A
DM-35 3233 B: DM-35 3233 A
DM-35 3233 F8 V A: DM-35 3233 B
DM-36 13940 K3 V A: DM-36 13940 B

DM-36 13940 M5 5 B: DM-36 13940 A
DM-37 10500 A 7S B: DM-37 10500 A
DM-37 10500 G6 V A: DM-37 10500 B
DM-37 10765 M4 A: DM-37 10765 B
DM-37 10765 M7 B: DM-37 10765 A
DM-39 10940 B: DM-39 10940 A
DM-39 10940 K5 V A: DM-39 10940 B
DM-39 7301 G5 V A: VB 5 B
DM-42 249 B: DM-42 249 A
DM-42 249 K5 V A: DM-42 249 B
DM-44 3045 M4.5 A: DM-44 3045 B
DM-44 3045 M4.5 B: DM-44 3045 A
DM-44 775 K6 VE A: DM-44 775 B
DM-44 775 SB B: DM-44 775 A
DM-46 11370 G8 V A: DM-46 11370 B
DM-46 11370 M0 V B: DM-46 11370 A
DM-46 12902 B: DM-46 12902 A
DM-46 12902 K9 V A: DM-46 12902 B
DM-46 3046 B: DM-46 3046 A
DM-46 3046 K2 V A: DM-46 3046 B
DM-51 10924 M B: DM-51 10924 A
DM-51 10924 M0 A: DM-51 10924 B
DM-51 13128 M0 A: L 283-7 B
DM-54 9222 B: DM-54 9222 A
DM-54 9222 G1 V A: DM-54 9222 B
DM-56 328 K5 VE B: Rho Eridani A
DM-60 3532 K7 V A: DM-60 3532 B
DM-60 3532 M0 VE B: DM-60 3532 A
Delta Aquilae F0 IV A: Delta Aquilae B
Delta Aquilae SB B: Delta Aquilae A
Delta Trianguli G0 VE A: Delta Trianguli B
Delta Trianguli SB B: Delta Trianguli A
Epsilon Ceti B: Epsilon Ceti A
Epsilon Ceti F8 V A: Epsilon Ceti B
Epsilon Eridani K2 VE A: Epsilon Eridani B
Epsilon Eridani UC B: Epsilon Eridani A
Eta Bootis G0 IV A: Eta Bootis B
Eta Bootis SB B: Eta Bootis A
Eta Cassiopei G0 V A: Eta Cassiopei B
Eta Cassiopei M0 V B: Eta Cassiopei A
G 47-9 M5 B: DM+28 1660 A
G107-69 M6 6 A: G107-69 B, G107-70 C, D
G107-69 SB M5 5 B: G107-69 A, G107-70 C, D
G107-70 A 7 C: G107-69 A, B, G107-70 D
G107-70 SB M5 V D: G107-69 A, B, G107-70 C
G197-50 3 C B: DM+55 1519 A
G200-38 K1 C: Theta Bootis A, B
Gamma Leporis F6 V A: DM-22 1210 B, VB 1 C
Gamma Virginis F0 V A: Gamma Virginis B
Gamma Virginis F0 V B: Gamma Virginis A
Groombridge 34 M1 VE+ A: Groombridge 34 B, C
Groombridge 34 M6 V C: Groombridge 34 A, B
Groombridge 34 SB B: Groombridge 34 A, C
Henry's Star G8 VI A: Catherine's Star B
Hochbaden K6 5 A: DM+27 2296 B
Iota Pegasi F5 V A: Iota Pegasi B
Iota Pegasi SB B: Iota Pegasi A
Iota Ursae Majoris D: Iota Ursae Majoris A, B, C
Iota Ursae Majoris A7 V A: Iota Ursae Majoris B, C, D
Iota Ursae Majoris M1 5 B: Iota Ursae Majoris A, C, D
Iota Ursae Majoris SB C: Iota Ursae Majoris A, B, D
Kruger 60 A M3 5 A: Kruger 60 B B
Kruger 60 B M4.5 5E B: Kruger 60 A A
L 68-27 M B: L 68-28 A
L 68-28 K0 A: L 68-27 B
L 115-21 M A: L 115-21 B
L 115-21 M B: L 115-21 A
L 283-7 A B: DM-51 13128 A
L 489-58 B: L 489-58 A
L 489-58 G0 6 A: L 489-58 B
L 717-22 M4 5E C: DM-21 6267 A, B
L 745-46 F0 7 A: L 745-46 B
L 745-46 M 5 B: L 745-46 A
L 820-19 B: L 820-19
L 820-19 M6 A: L 820-19 B
L 856-54 B: L 856-54 A
L 856-54 M5 A: L 856-54 B
L 989-20 B: L 989-20 A
L 989-20 G A: L 989-20 B
L1272-21 M6 B: AC+18 1890-112 A
LP101-15 M4 5E A: LP101-15 B, LP101-16 C
LP101-15 SB B: LP101-15 A, LP101-16 C
LP101-16 7 C: LP101-15 A, B
Mu Cassiopei G5 VI A: Mu Cassiopei B
Mu Cassiopei M8 5 B: Mu Cassiopei A
Mu Herculis G5 IV A: Mu Herculis B, C
Mu Herculis M4 5 C: Mu Herculis A, B
Mu Herculis M4 5E B: Mu Herculis A, C
Omicron2 Eridani K1 VE A: DM- 7 781 B, C
Rho Eridani K2 V A: DM-56 328 B
Procyon A F5 IV A: Procyon B
Procyon B F 7 B: Procyon A
Qinyuan M5.5 5 A: UV Ceti B
Red Speck M3 5 A: DM+45 2505 B
Ross 42 M4 5E A: Ross 42 B
Ross 42 SB B: Ross 42 A
Ross 52 M5 A: Ross 52 B
Ross 52 M5 B: Ross 52 A
Ross 165 B: Ross 165 A
Ross 165 M4.5 5 A: Ross 165 B
Ross 193 M4 5E A: VB 11 B
Ross 486 M4 5 A: Ross 486 B
Ross 486 M6 5 B: Ross 486 A
Ross 614 B: Ross 614 A
Ross 614 M7 5E A: Ross 614 B
Ross 867 M5 5E B: Ross 868 A
Ross 868 M4 5E A: Ross 867 B
Ross 989 M4.5 5E C: DM+36 1638 A, B
Sirius A A1 V A: Sirius B
Sirius B A 7 B: Sirius A
Theta Bootis F7 V A: Theta Bootis B, G200-38 C
Theta Bootis M3.5 B: Theta Bootis A, G200-38 C
Theta Persei F7 V A: Theta Persei B
Theta Persei M2 5E B: Theta Persei A
UV Ceti M5.5 5F B: Qinyuan A
VB 1 M VII C: Gamma Leporis A, DM-22 1210 B
VB 4 B: DM-32 8179 A
VB 5 B: DM-39 7301 A
VB 8 C: Clarkesstar A, DM- 8 4352 B
VB 9 M B: DM+45 2743 A
VB 10 M5 5E B: DM+ 4 4048 A
VB 11 C 7 B: Ross 193 A
WX Ursae Majoris B: Augereau A
Wolf 424 B: Wolf 424 A
Wolf 424 M5.5 5E A: Wolf 424 B
Wolf 461 M5 5E A: Wolf 461 B
Wolf 461 SB B: Wolf 461 A
Wolf 629 M4 6 A: Wolf 629 B
Wolf 629 SB B: Wolf 629 A
Wolf 1561 M4.5 5E A: Wolf 1561 B
Wolf 1561 M5 5E B: Wolf 1561 A
Xi Bootis G8 VE A: Xi Bootis B, C
Xi Bootis K4 VE C: Xi Bootis A, B
Xi Bootis SB B: Xi Bootis A, C
Xi Ursae Majoris G0 VE A: Xi Ursae Majoris B, C, D
Xi Ursae Majoris G0 VE C: Xi Ursae Majoris A, B, D
Xi Ursae Majoris SB B: Xi Ursae Majoris A, C, D
Xi Ursae Majoris SB D: Xi Ursae Majoris A, B, C
YY Geminorum K6 V E: Castor A, B, C, D, YY Geminorum F
YY Geminorum SB K6 V F: Castor B, C, D, YY Geminorum E
Zeta Draconis G0 V A: Zeta Draconis B
Zeta Draconis SB B: Zeta Draconis A
Zeta Herculis G0 IV A: Zeta Herculis B
Zeta Herculis K0 5 B: Zeta Herculis A

The distance between any two stars can be determined using the formula:

$$D = \sqrt{(X_1-X_2)^2 + (Y_1-Y_2)^2 + (Z_1-Z_2)^2}$$

X_1 is the X coordinate of the first star; X_2 is the X coordinate of the second star. By finding the square root of the sum of the differences in X, Y, and Z coordinates, it is possible to determine the distance separating the stars.



NEAR STAR MAP