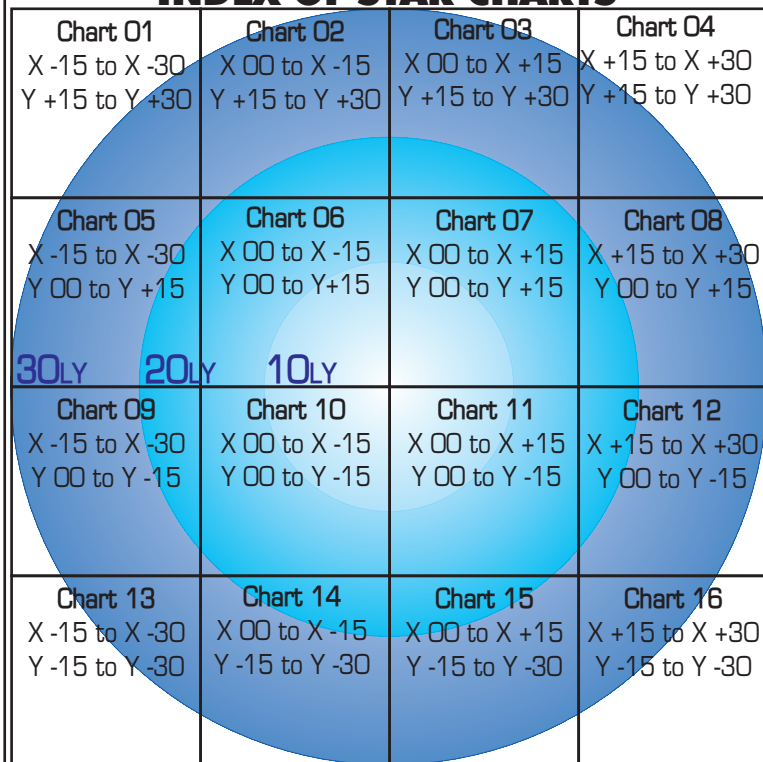
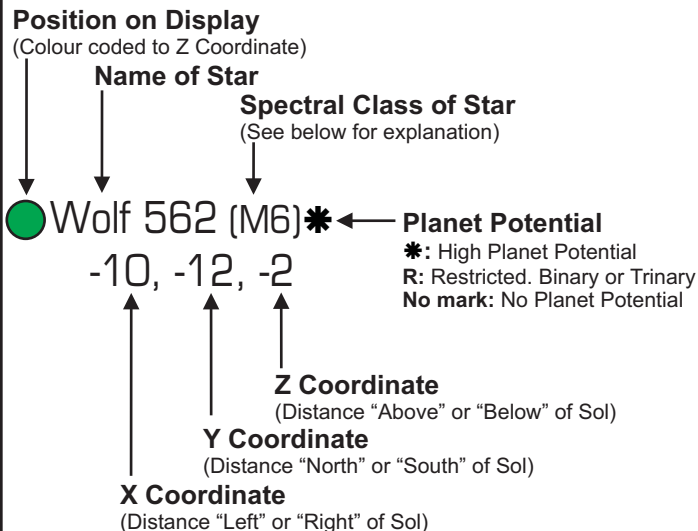


# UNIVERSE : INTERSTELLAR CHARTS

## INDEX OF STAR CHARTS



## KEY TO STAR NOTATION



## SPECTRAL CLASSES

**d:** Dwarf Star **D:** Collapsed Dwarf  
**#:** The "Sub Class" of the star from 0 to 9

- **B Type Stars:** Blue - White  
Average Temperature: 25000 °C
- **A Type Stars:** White  
Average Temperature: 11000 °C
- **F Type Stars:** White - Yellow  
Average Temperature: 7500 °C
- **G Type Stars:** Yellow  
Average Temperature: 5300 °C to 5800 °C
- **K Type Stars:** Orange  
Average Temperature: 4000 °C to 4900 °C
- **M Type Stars:** Red  
Average Temperature: 3000 °C to 3400 °C

## KEY TO Z COORDINATE COLOUR CODE

- Star with a Z Coordinate of +10 or above
- Star with a Z Coordinate of 0 through +9
- Star with a Z Coordinate of 0 through -9
- Star with a Z Coordinate of -10 or below

## CALCULATING DISTANCE FROM STAR TO STAR

Subtract the **x** coordinate of the Destination Star from the **X** coordinate of the Origin Star, then square the result. Repeat this for the other coordinates (**y** - **Y** and **z** - **Z**) and sum the result. Then take the square root of this sum to find the distance in Light Years between the Origin and Destination stars. The formula for this procedure is shown below:

$$\text{Distance in Light Years} = \sqrt{(X - x)^2 + (Y - y)^2 + (Z - z)^2}$$

## Spheres of Development in the 24<sup>th</sup> Century

Spheres of Development set in the 24<sup>th</sup> century, describe the scale of human endeavour taking place outward from the Sol System in broad terms. Colonization and exploration are all but established for the majority of star systems closest to Sol, with discoveries and activity diminishing as the distance from Sol increases.

**The Established Sphere:** 0LY to 10LY

Established colonies, trade routes, intense exploration.

**The Pioneer Sphere:** 10LY to 20LY

Developing colonies, active exploration.

**The Frontier Sphere:** 20LY to 30LY

Research Outposts, limited exploration. Limit of expeditions.

**Exceptions:** Sixty cubic Light Years of space has a big potential for exceptions. Instances of a secluded colony in "The Frontier Sphere" or an uncharted world in "The Established Sphere" are almost certainties. Further more there is always the potential to locate uncharted systems which have some how remained undiscovered for a variety of reasons. Dark systems, worlds orbiting a star with no or a very low luminosity, proto stars or Brown Dwarfs, which have yet to ignite into full stars or rosette worlds which orbit each other without a central star are all possibilities for uncharted systems which are yet to be discovered.

## KEY TO STAR DATA NOTATION

STAR	X	Y	Z	SC	LY	PC	
LFT 661	-21	+15	-10	K6	28	*	
LFT 598	-17	+21	-12	M6	30	*	← Planet Potential
							*: High Planet Potential R: Restricted. Binary or Trinary No mark: No Planet Potential
<b>STAR</b> (Name of the Star. Star Systems may have more than one star present and these are listed individually.)	<b>X Coordinate</b> (Distance "Left" or "Right" of Sol)	<b>Y Coordinate</b> (Distance "North" or "South" of Sol)	<b>Z Coordinate</b> (Distance "Above" or "Below" of Sol)	<b>SC</b> (Spectral Type of the Star)	<b>LY</b> (Light Years from Sol)		

## PLANET POTENTIAL

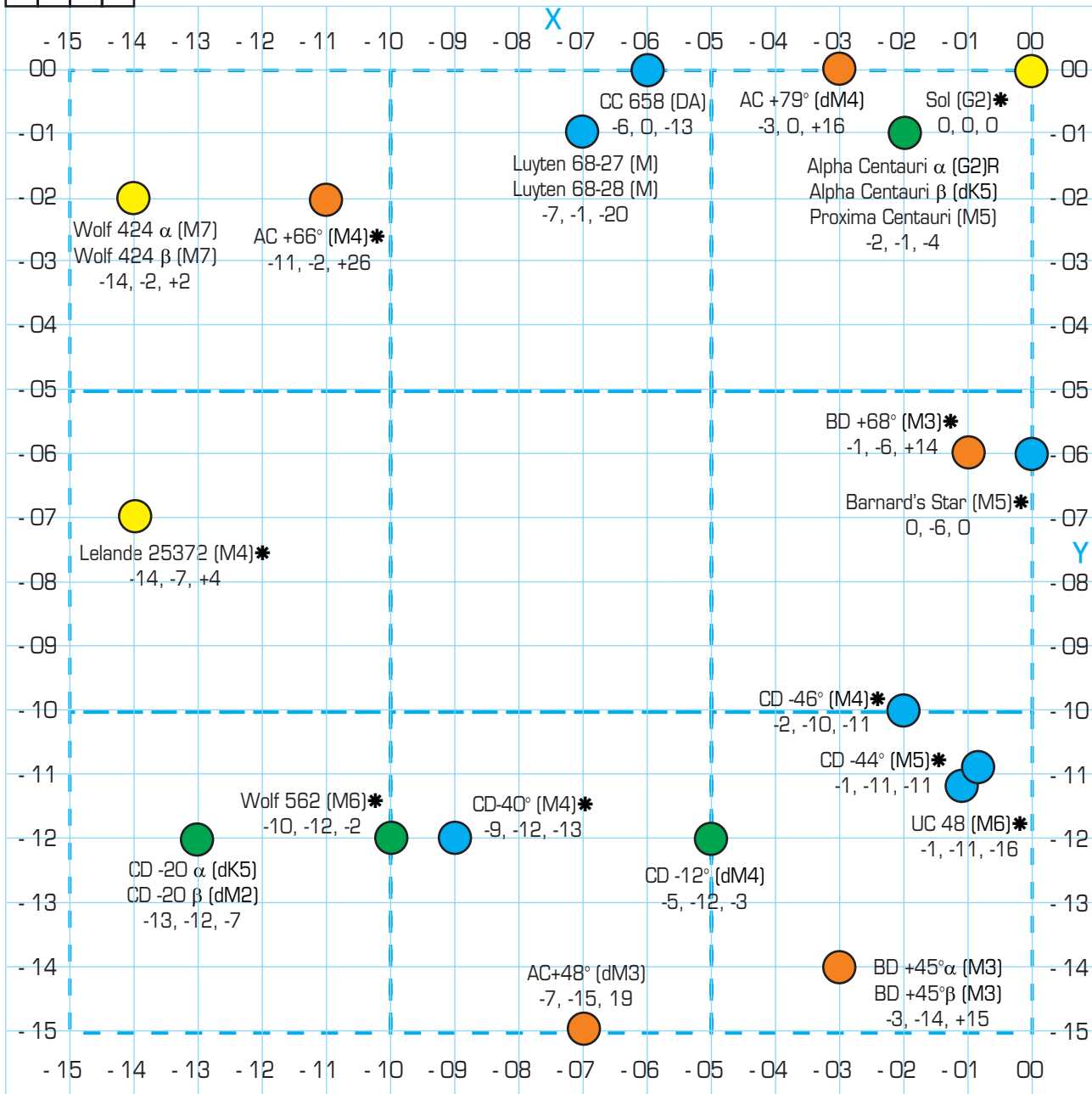
Planet Potential refers to planets within the world size ranges of **0** to **9** and excludes the presence of potential asteroid and Kuiper belts, dust rings, Oort clouds and **9+** or larger worlds such as Gas Giants along with any moons forming world systems that may be orbiting them. Discoveries have been made of 'useful' worlds, which orbit some stars listed on the charts as having 'No Planet Potential'.

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05	06	07	08
09	10	11	12
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# CHART 10

## UNIVERSE: INTERSTELLAR CHARTS

X 00 to -15, Y 00 to -15, Z +30 to -30



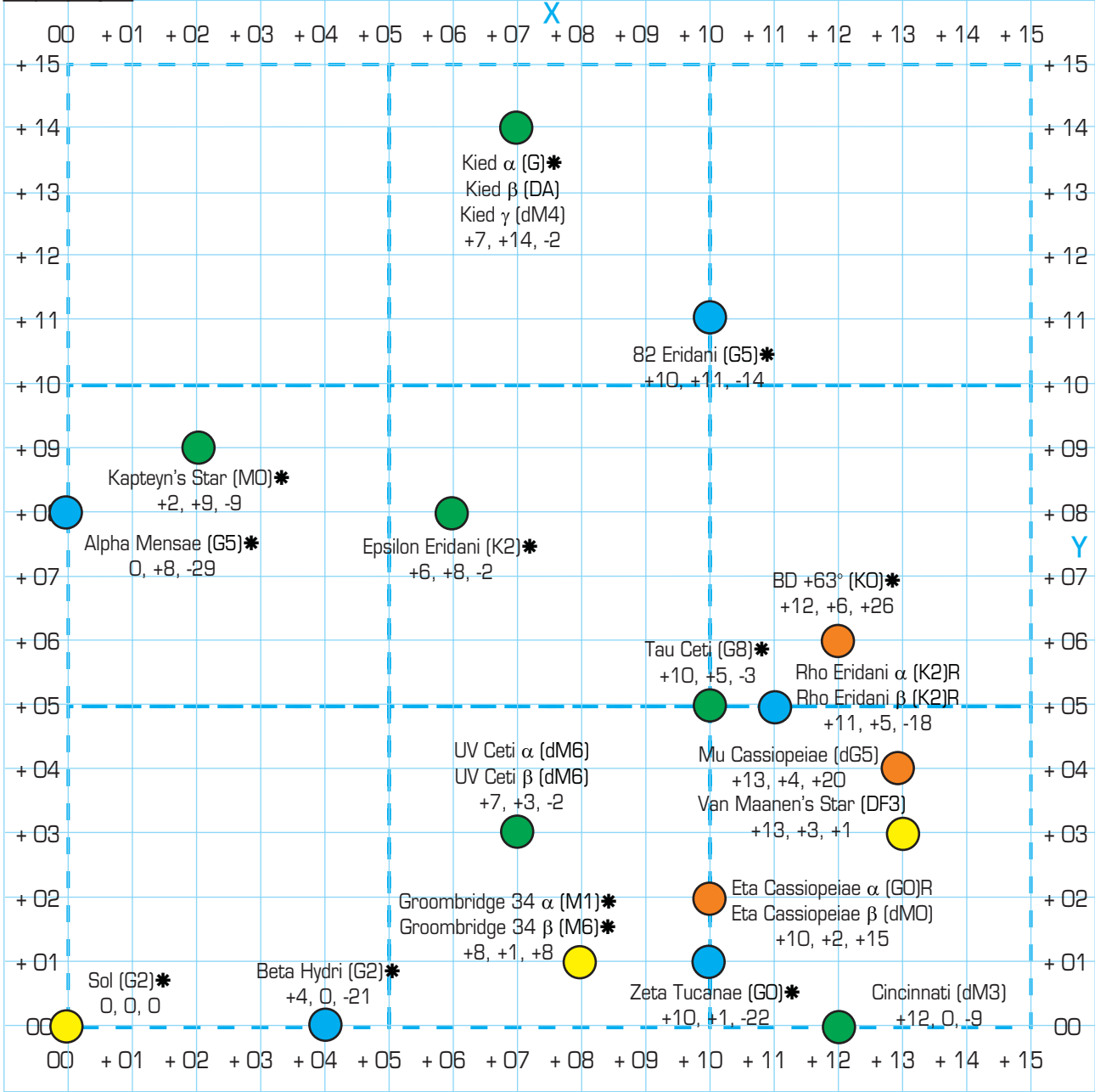
STAR	X	Y	Z	SC	LY	PP
AC +48°	-7	-15	+19	dM3	25	
AC +66°	-11	-2	+26	M4	28	*
AC +79°	-3	0	+16	dM4	16	
Alpha Centauri a	-2	-1	-4	G2	5	R
Alpha Centauri b	-2	-1	-4	dK5	5	
Barnard's Star	0	-6	0	M5	6	*
BD +45° a	-3	-14	+15	M3	21	
BD +45° b	-3	-14	+15	M3	21	
BD +68°	-1	-6	14	M3	15	*
CC 658	-6	0	-13	DA	14	
CD -12°	-5	-12	-3	dM4	13	
CD -20° a	-13	-12	-7	dK5	19	
CD -20° b	-13	-12	-7	dM2	19	
CD -40°	-9	-12	-13	M4	20	*
CD -44°	-1	-11	-11	M5	16	*
CD -46°	-2	-10	-11	M4	15	*
Lelande 25372	-14	-7	+4	M4	16	*
Luyten 68-27	-7	-1	-20	M	21	
Luyten 68-28	-7	-1	-20	M	21	
Proxima Centauri	-2	-1	-4	M5	5	
Sol	0	0	0	G2	0	*
UC 48	-1	-11	-16	M6	19	*
Wolf 424 a	-14	-2	+2	M7	14	
Wolf 424 b	-14	-2	+2	M7	14	
Wolf 562	-10	-12	-2	M6	16	*

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09	10	11	12
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# CHART 7

## UNIVERSE: INTERSTELLAR CHARTS

X 00 to +15, Y 00 to +15, Z +30 to -30



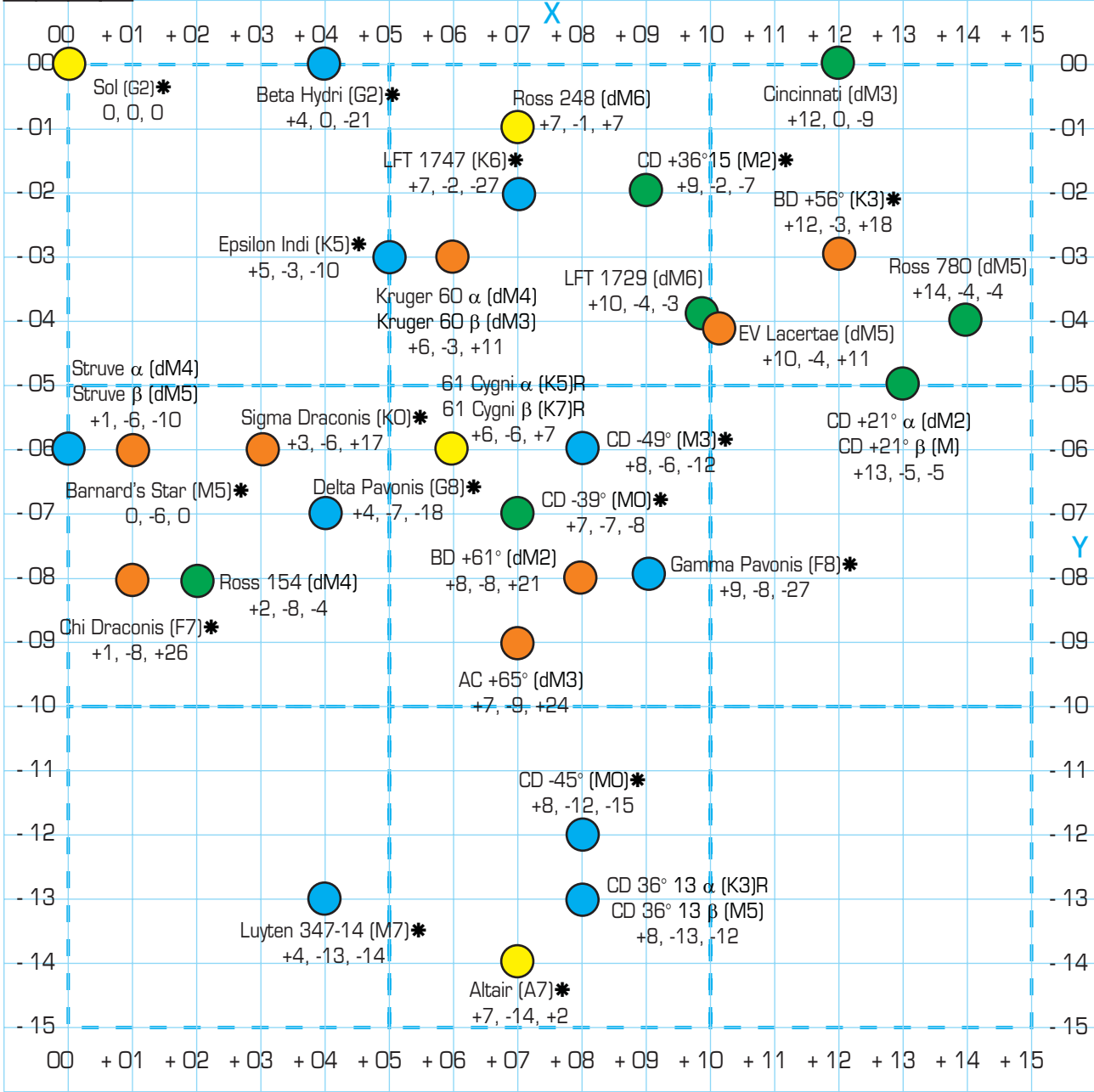
STAR	X	Y	Z	SC	LY	PP
82 Eridani	+10	+11	-14	G5	20	*
Alpha Mensae	0	+8	-29	G5	30	*
BD +63°	+12	+6	+26	K0	29	*
Beta Hydri	+4	0	-21	G2	21	*
Cincinnati	+12	0	-9	dM3	15	
Epsilon Eridani	+6	+8	-2	K2	10	*
Eta Cassiopeiae a	+10	+2	+15	G0	18	R
Eta Cassiopeiae b	+10	+2	+15	dM0	18	
Groombridge 34 a	+8	+1	+8	M1	11	*
Groombridge 34 b	+8	+1	+8	M6	11	*
Kapteyn's Star	+2	+9	-9	M0	13	*
Kied a	+7	+14	-2	K1	16	*
Kied b	+7	+14	-2	DA	16	
Kied c	+7	+14	-2	dM4	16	
Mu Cassiopeiae	+13	+4	+20	dG5	24	
Rho Eridani a	+11	+5	-18	K2	22	R
Rho Eridani b	+11	+5	-18	K2	22	R
Sol	0	0	0	G2	0	*
Tau Ceti	+10	+5	-3	G8	12	*
UV Ceti a	+7	+3	-2	dM6	8	
UV Ceti b	+7	+3	-2	dM6	8	
Van Maanen's Star	+13	+3	+1	DF3	13	
Zeta Tucanae	+10	+1	-22	G0	24	*

01	02	03	04
05	06	07	08
09	10	11	12
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CHART 11

UNIVERSE: INTERSTELLAR CHARTS

X 00 to +15, Y 00 to -15, Z +30 to -30



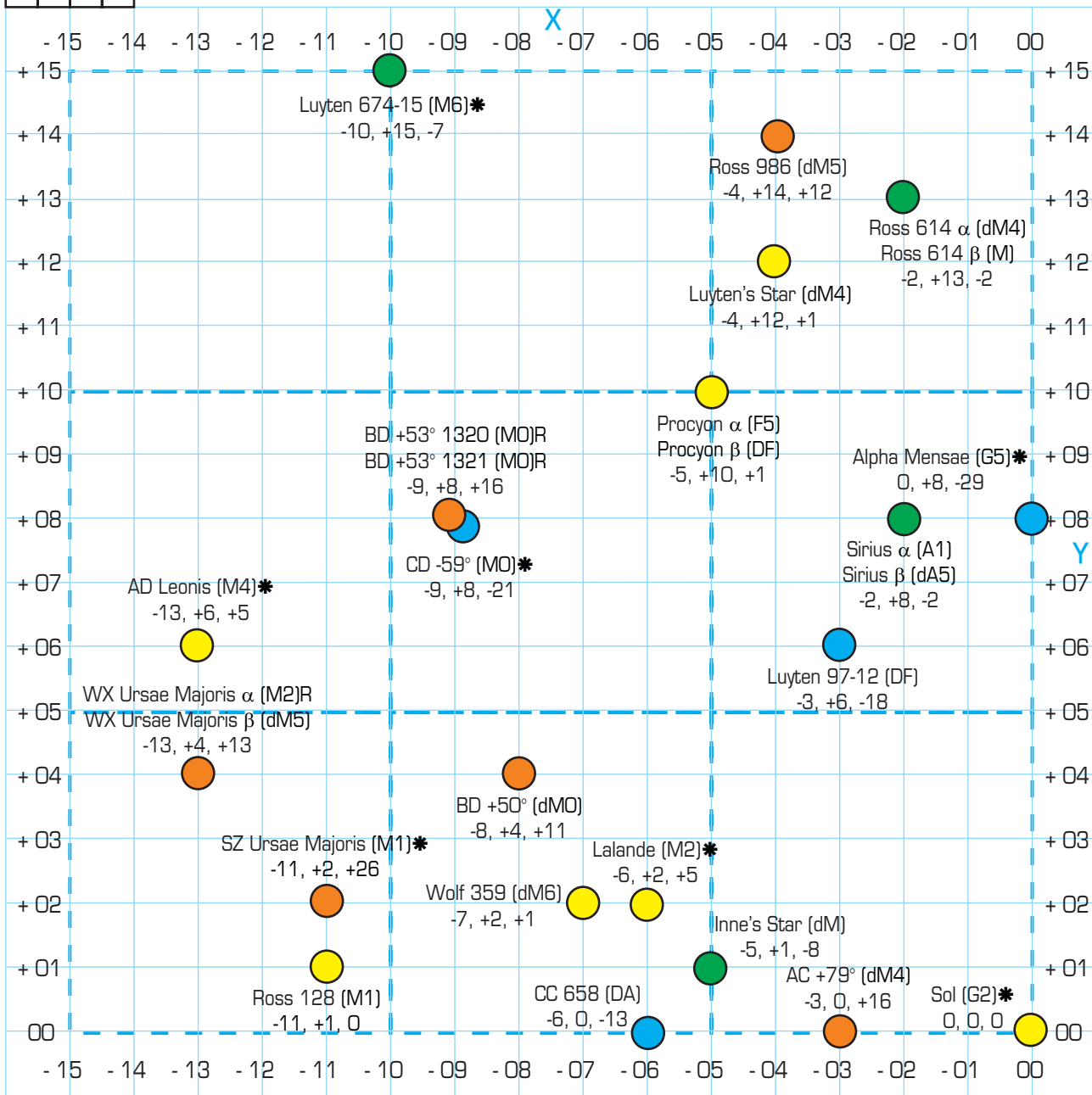
STAR	X	Y	Z	SC	LY	PP
61 Cygni a	+6	-6	-7	K5	11	R
61 Cygni b	+6	-6	+7	K7	11	R
AC +65°	+7	-9	+24	dM3	27	
Altair	+7	-14	+2	A7	16	*
Barnard's Star	0	-6	0	M5	6	*
BD +56°	+12	-3	+18	K3	22	*
BD +61°	+8	-8	+21	dM2	24	
Beta Hydri	+4	0	-21	G2	21	*
CD +21° a	+13	-5	-5	dM2	15	
CD +21° b	+13	-5	-5	M	15	
CD +36° 15	+9	-2	-7	M2	12	*
CD -36° 13 a	+8	-13	-12	K3	19	R
CD -36° 13 b	+8	-13	-12	M5	19	
CD -39°	+7	-7	-8	M0	13	*
CD -45°	+8	-12	-15	M0	21	*
CD -49°	+8	-6	-12	M3	16	*
Chi Draconis	+1	-8	+26	F7	27	*
Cincinnati	+12	0	-9	dM3	15	
Delta Pavonis	+4	-7	-18	G8	20	*
Epsilon Indi	+5	-3	-10	K5	12	*
EV Lacertae	+10	-4	+11	dM5	15	
Gamma Pavonis	+9	-8	-27	F8	30	*
Kruger 60 a	+6	-3	+11	dM4	13	
Kruger 60 b	+6	-3	+11	dM3	13	
LFT 1729	+10	-4	-3	dM6	11	
LFT 1747	+7	-2	-27	K6	28	*
Luyten 347-14	+4	-13	-14	M7	20	*
Ross 154	+2	-8	-4	dM4	9	
Ross 248	+7	-1	+7	dM6	10	
Ross 780	+14	-4	-4	dM5	15	
Sigma Draconis	+3	-6	+17	K0	18	*
Sol	0	0	0	G2	0	*
Struve a	+1	-6	+10	dM4	12	
Struve b	+1	-6	+10	dM5	12	

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 6

## UNIVERSE: INTERSTELLAR CHARTS

X 00 to -15, Y 00 to +15, Z +30 to -30



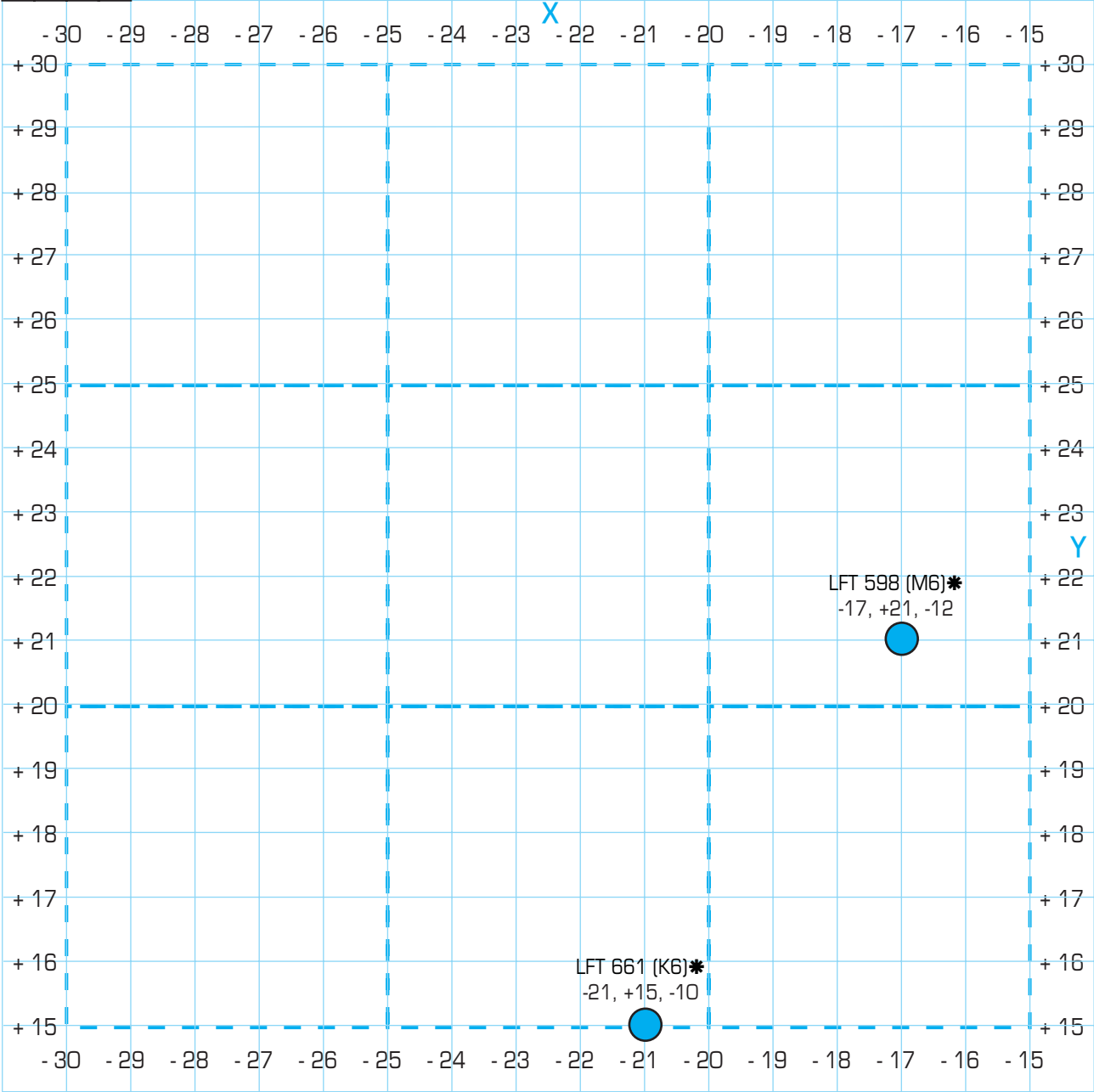
STAR	X	Y	Z	SC	LY	PP
AC +79°	-3	0	+16	dM4	16	
AD Leonis	-13	+6	+5	M4	15	*
Alpha Mensae	0	+8	-29	G5	30	*
BD +50°	-8	+4	+11	dM0	14	
BD +53° 1320	-9	+8	+16	M0	20	R
BD +53° 1321	-9	+8	+16	M0	20	R
CC 658	-6	0	-13	DA	14	
CD -59°	-9	+8	-21	M0	24	*
Inne's Star	-5	+1	-8	dM	9	
Lalande	-6	+2	+5	M2	8	*
Luyten 674-15	-10	+15	-7	M6	19	*
Luyten 97-12	-3	+6	-18	DF	19	
Luyten's Star	-4	+12	+1	dM4	13	
Procyon a	-5	+10	+1	F5	11	
Procyon b	-5	+10	+1	DF	11	
Ross 128	-11	+1	0	dM5	11	
Ross 614 a	-2	+13	-2	dM4	13	
Ross 614 b	-2	+13	-2	M	13	
Ross 986	-4	+14	+12	dM5	19	
Sirius a	-2	+8	-2	A1	8	
Sirius b	-2	+8	-2	DA5	8	
Sol	0	0	0	G2	0	*
SZ Ursae Majoris	-11	+2	+26	M1	28	*
Wolf 359	-7	+2	+1	dM6	7	
WX Ursae Majoris a	-13	+4	+13	M2	19	R
WX Ursae Majoris b	-13	+4	+13	dM5	19	

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

CHART 1

UNIVERSE: INTERSTELLAR CHARTS

X -15 to -30, Y +15 to +30, Z +30 to -30



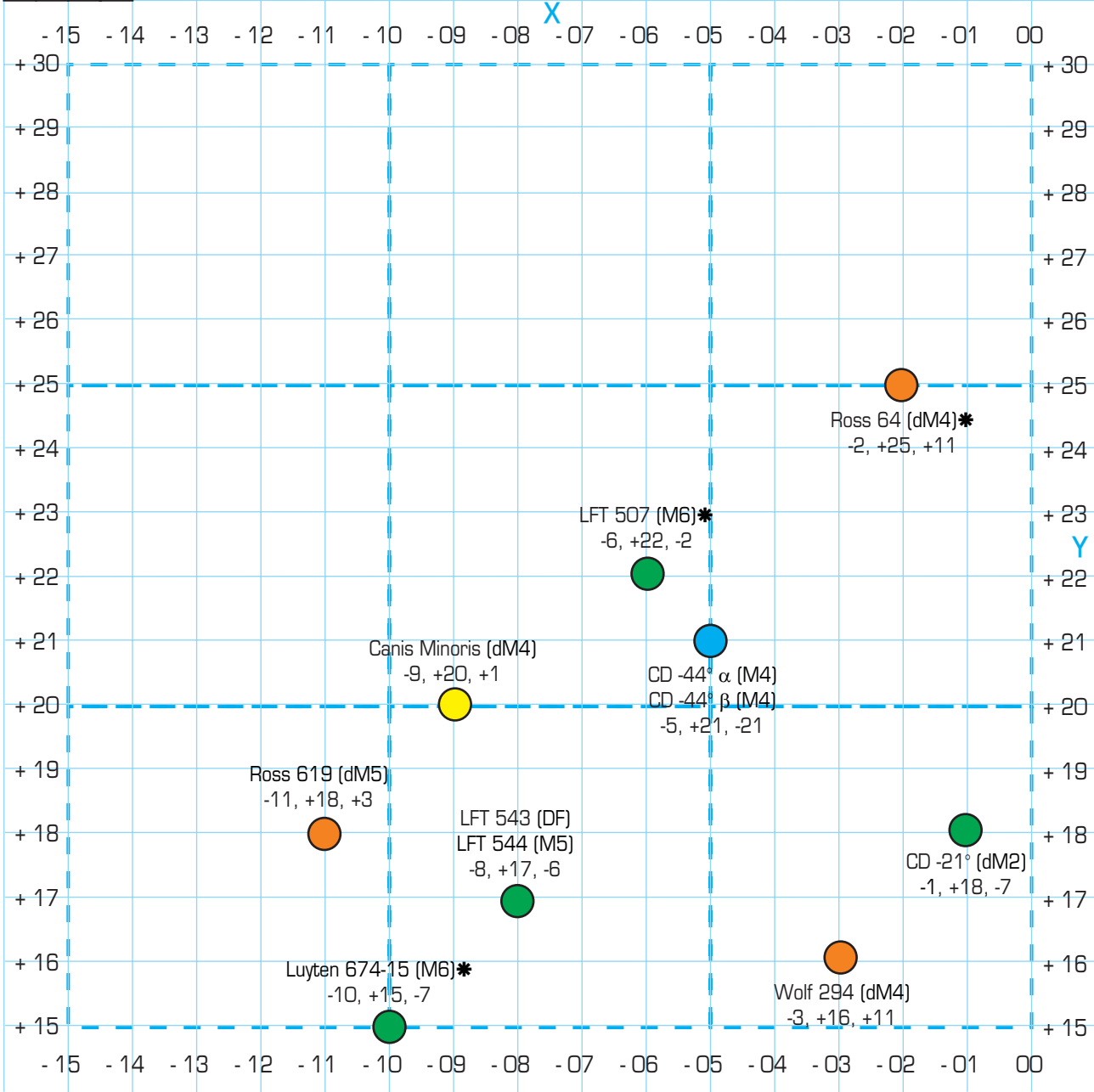
STAR	X	Y	Z	SC	LY	PP
LFT 598	-17	+21	-12	M6	30	*
LFT 661	-21	+15	-10	K6	28	*

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 2

## UNIVERSE: INTERSTELLAR CHARTS

X 00 to -15, Y +15 to +30, Z +30 to -30



STAR	X	Y	Z	SC	LY	PP
Canis Minoris	-9	+20	+1	dM4	22	
CD -21°	-1	+18	-7	dM2	19	
CD -44° a	-5	+21	-21	M4	30	
CD -44° b	-5	+21	-21	M4	30	
LFT 507	-6	+22	-2	M6	23	*
LFT 543	-8	+17	-6	DF	20	
LFT 544	-8	+17	-6	M5	20	
Luyten 674-15	-10	+15	-7	M6	19	*
Ross 619	-11	+18	+3	dM5	21	
Ross 64	-2	+25	+11	M6	27	*
Wolf 294	-3	+16	+11	dM4	20	

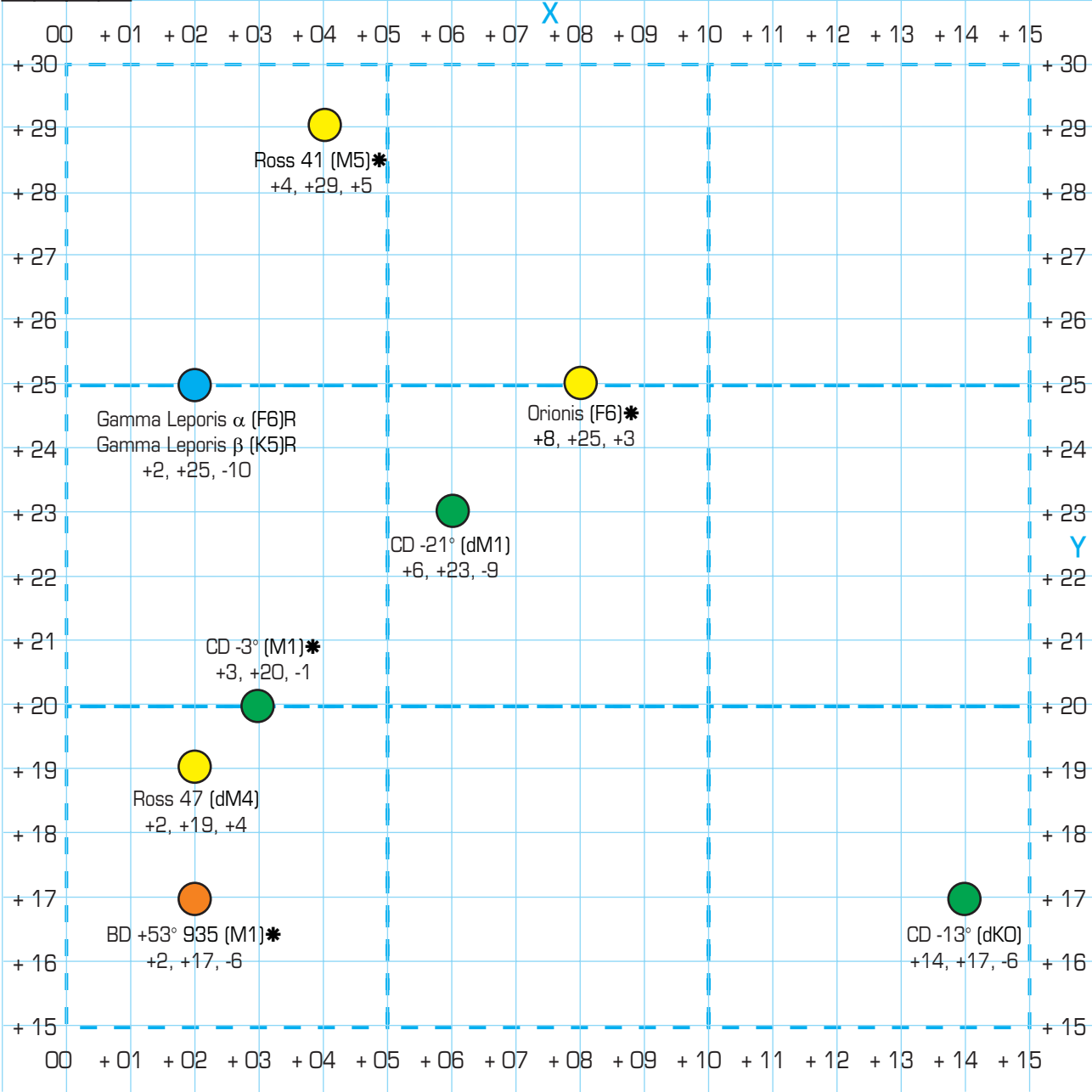


01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

CHART 3

UNIVERSE: INTERSTELLAR CHARTS

X 00 to +15, Y +15 to +30, Z +30 to -30



STAR	X	Y	Z	SC	LY	PP
BD +53° 935	+2	+17	+23	M1	29	*
CD -13°	+14	+17	-6	dK0	23	
CD -21°	+6	+23	-9	dM1	25	
CD -3°	+3	+20	-1	M1	20	*
Gamma Leporis a	+2	+25	-10	F6	27	R
Gamma Leporis b	+2	+25	-10	K5	27	R
Orionis	+8	+25	+3	F6	26	*
Ross 41	+4	+29	+5	M5	30	*
Ross 47	+2	+19	+4	dM4	20	

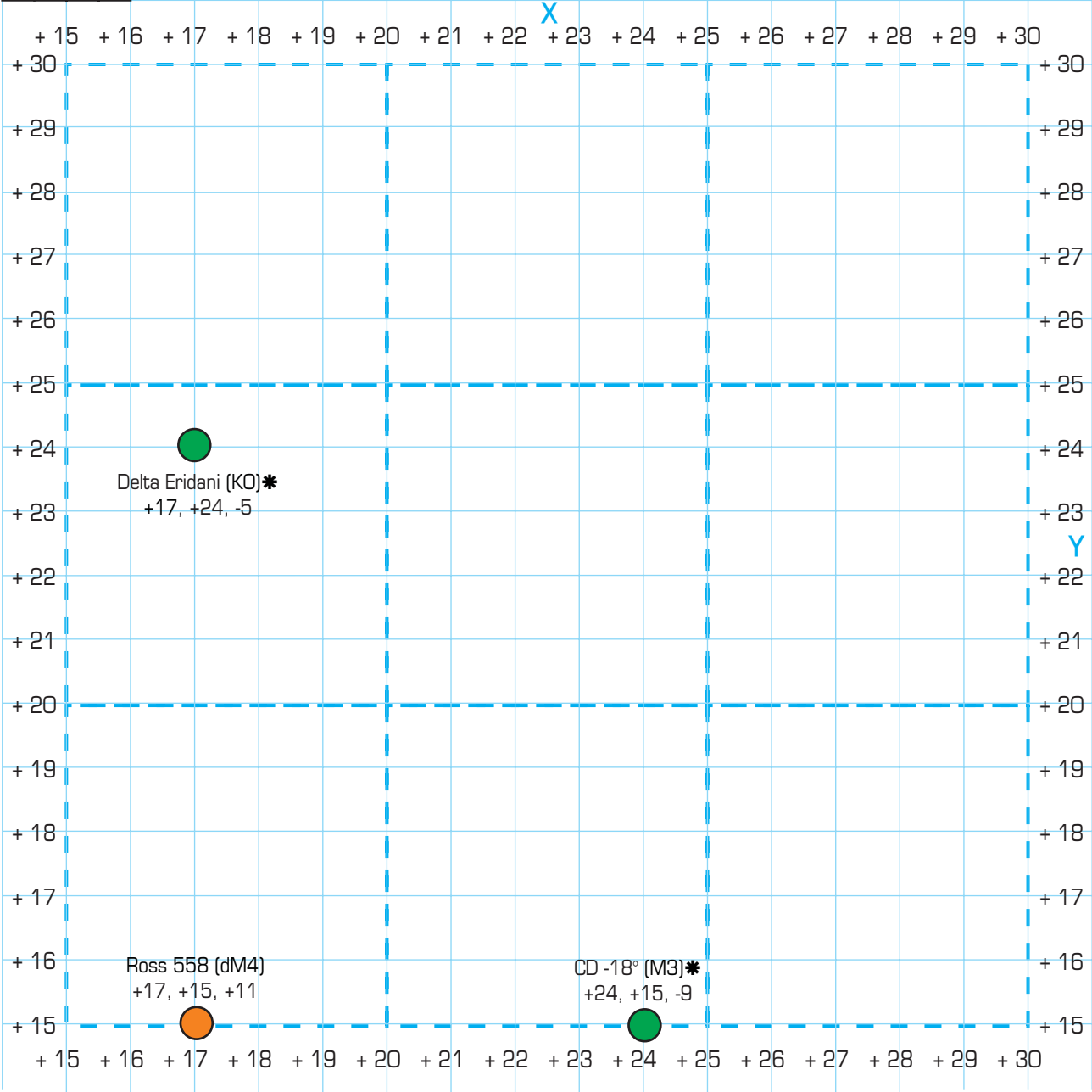


01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 4

## UNIVERSE: INTERSTELLAR CHARTS

X +15 to +30, Y +15 to +30, Z +30 to -30



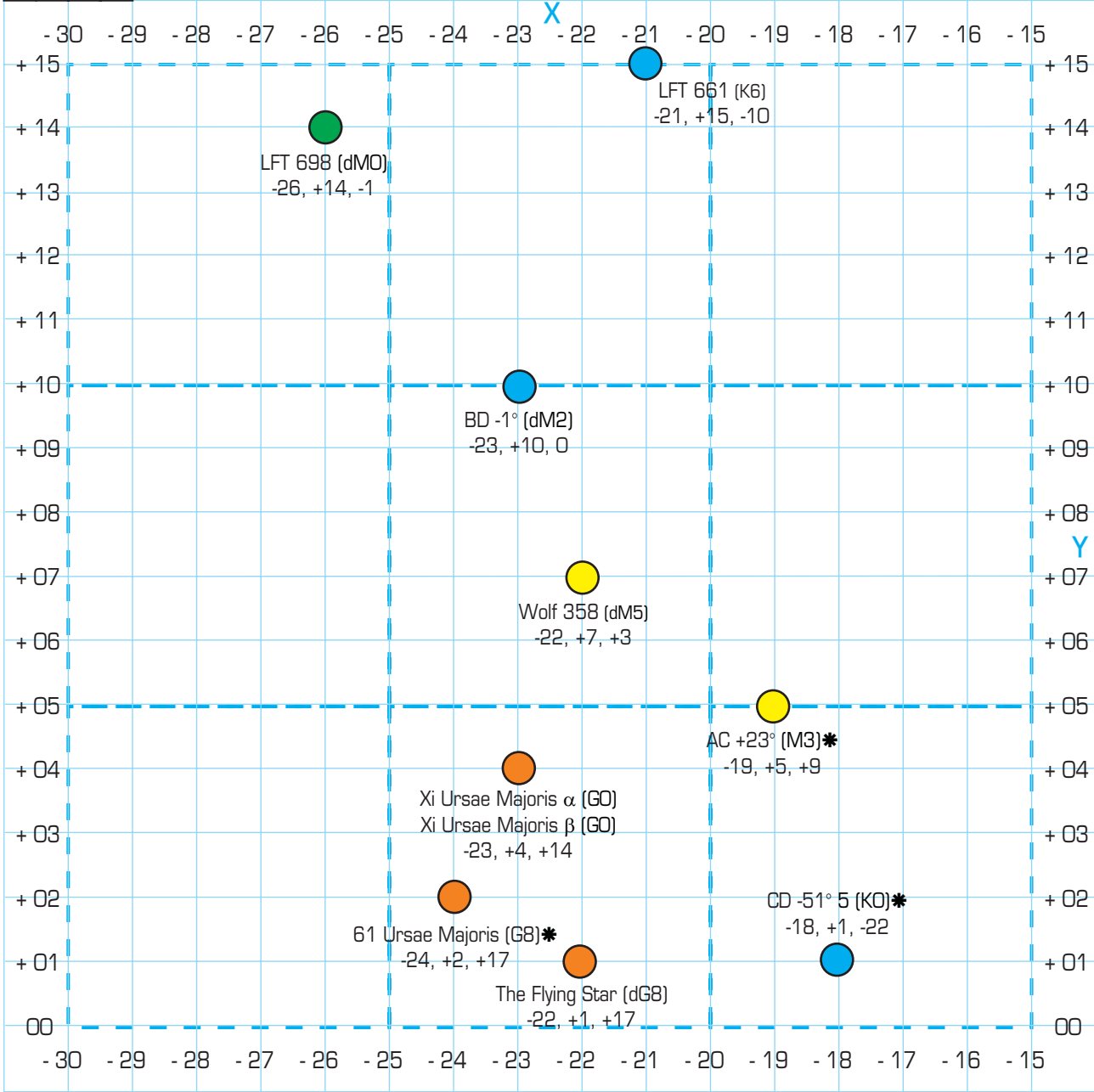
STAR	X	Y	Z	SC	LY	PP
CD -18°	+24	+15	-9	M3	30	*
Delta Eridani	+17	+24	-5	K0	30	*
Ross 558	+17	+15	+11	dM4	25	

01	02	03	04
05	06	07	08
09	10	11	12
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# CHART 5

## UNIVERSE: INTERSTELLAR CHARTS

X -15 to -30, Y 00 to +15, Z +30 to -30



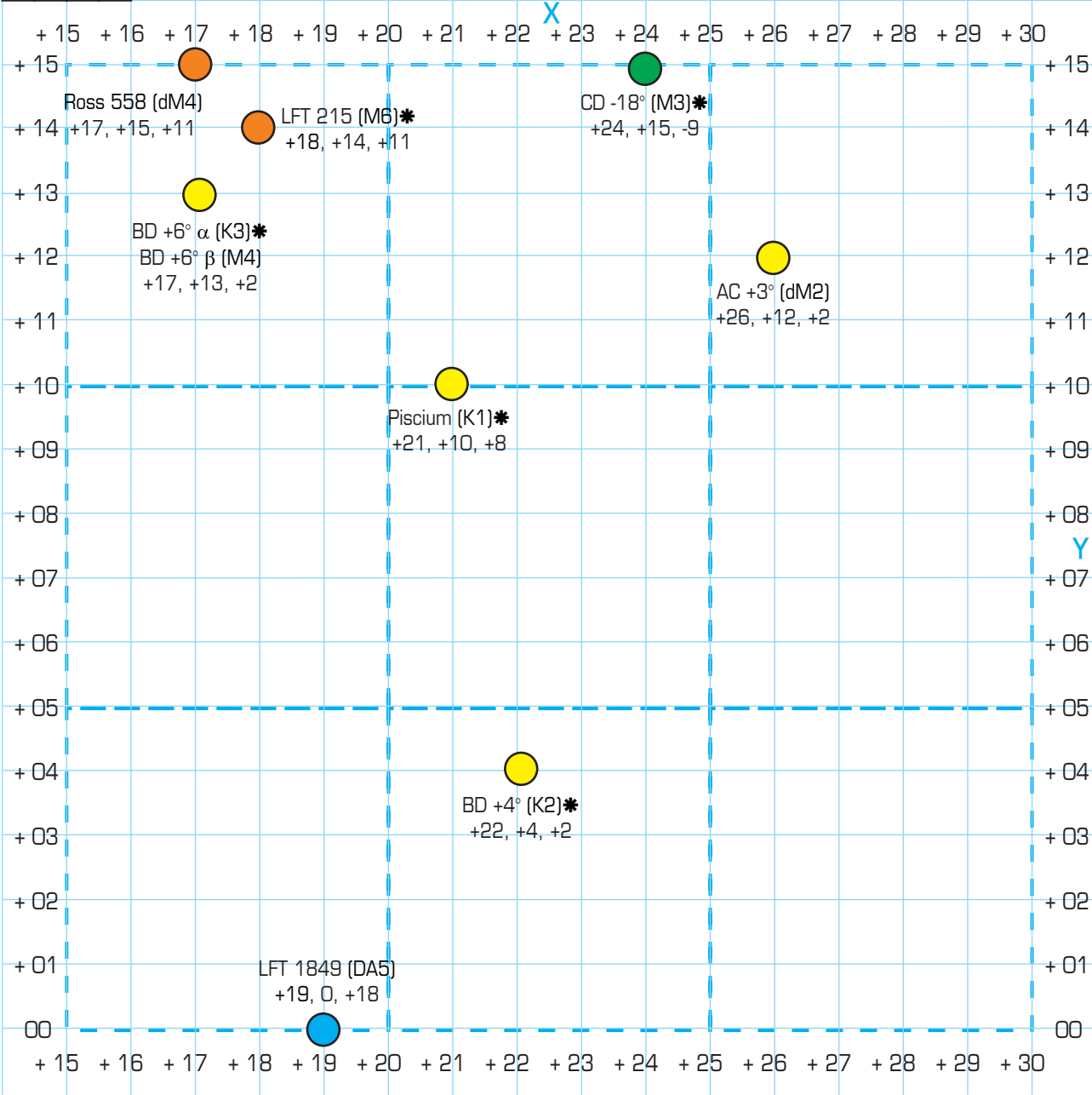
STAR	X	Y	Z	SC	LY	PP
61 Ursae Majoris	-24	+2	+17	G8	29	*
AC +23°	-19	+5	+9	M3	22	*
BD -1°	-23	+10	0	dM2	25	
CD -51° 5	-18	+1	-22	K0	28	*
LFT 661	-21	+15	-10	K6	28	*
LFT 698	-26	+14	-1	dM0	30	
The Flying Star	-22	+1	+17	dG8	28	
Wolf 358	-22	+7	+3	dM5	23	
Xi Ursae Majoris a	-23	+4	+14	G0	27	
Xi Ursae Majoris b	-23	+4	+14	G0	27	

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 8

## UNIVERSE: INTERSTELLAR CHARTS

X +15 to +30, Y 00 to +15, Z +30 to -30



STAR	X	Y	Z	SC	LY	PP
AC +3°	+26	+12	+2	dM2	29	
BD +4°	+22	+4	+2	K2	22	*
BD +6° a	+17	+13	+2	K3	21	*
BD +6° b	+17	+13	+2	M4	21	
CD -18°	+24	+15	-9	M3	30	*
LFT 1849	+19	0	-18	DA5	26	
LFT 215	+18	+14	+11	M6	25	*
Piscium	+21	+10	+8	K1	25	*
Ross 558	+17	+15	+11	dM4	25	

01	02	03	04
05	06	07	08
09	10	11	12
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# CHART 9

## UNIVERSE: INTERSTELLAR CHARTS

X -15 to -30, Y 00 to -15, Z +30 to -30



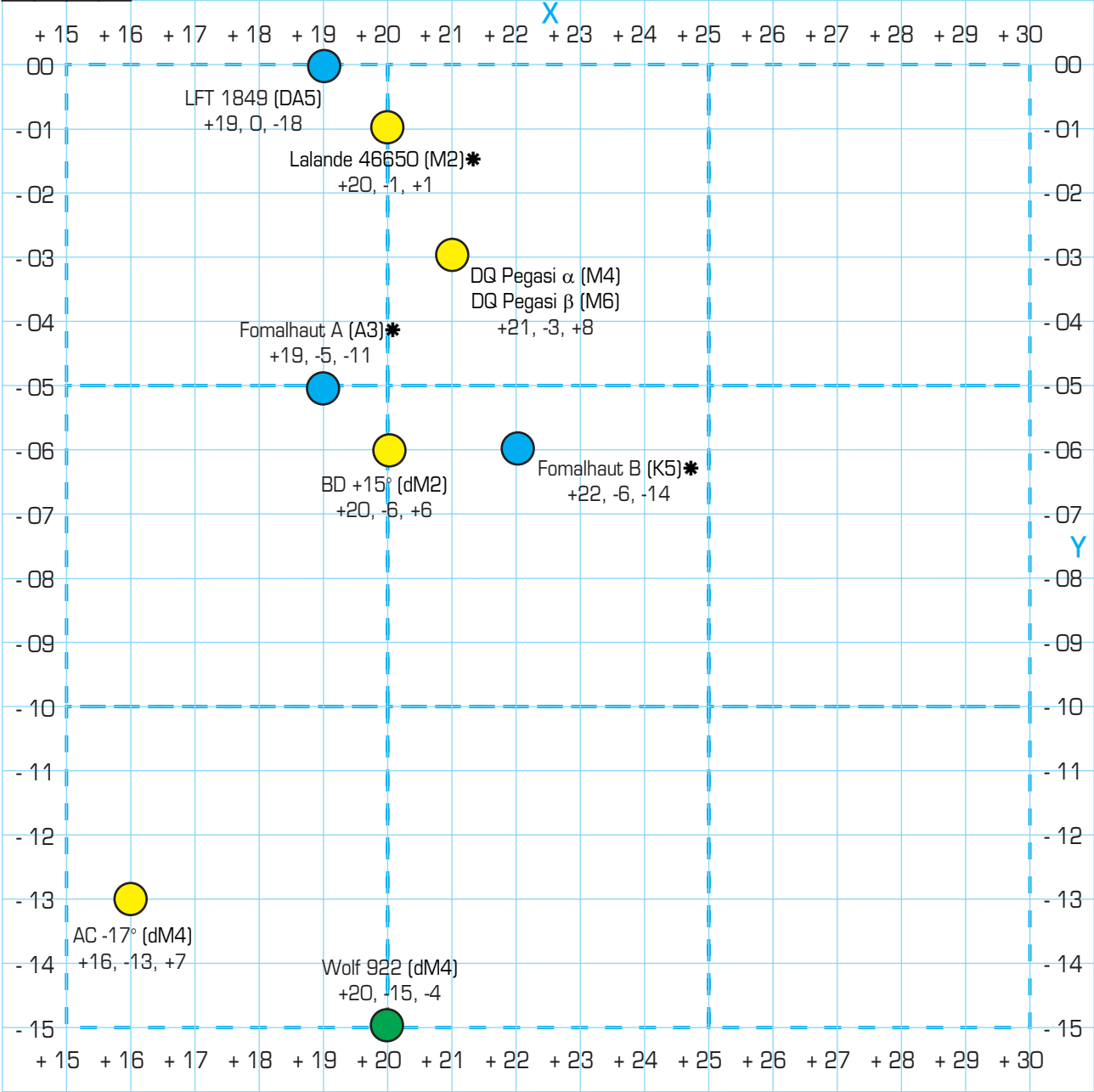
STAR	X	Y	Z	SC	LY	PP
61 Virginis	-26	-9	-9	G6	29	*
BD +11°	-25	-10	+5	M1	27	*
BD +46°	-17	-8	+20	dM2	27	
Beta Comae	-23	-7	+13	G0	27	*
CD -11°	-16	-12	-4	M4	20	*
CD -51° 6	-17	-3	-22	M3	28	*
Chara	-22	-3	+20	G0	30	*
Wolf 489	-23	-10	+2	DG8	25	
Xi Bootis a	-16	-14	+7	G8	22	
Xi Bootis b	-16	-14	+7	dK5	22	

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

CHART 12

UNIVERSE: INTERSTELLAR CHARTS

X +15 to +30, Y 00 to -15, Z +30 to -30



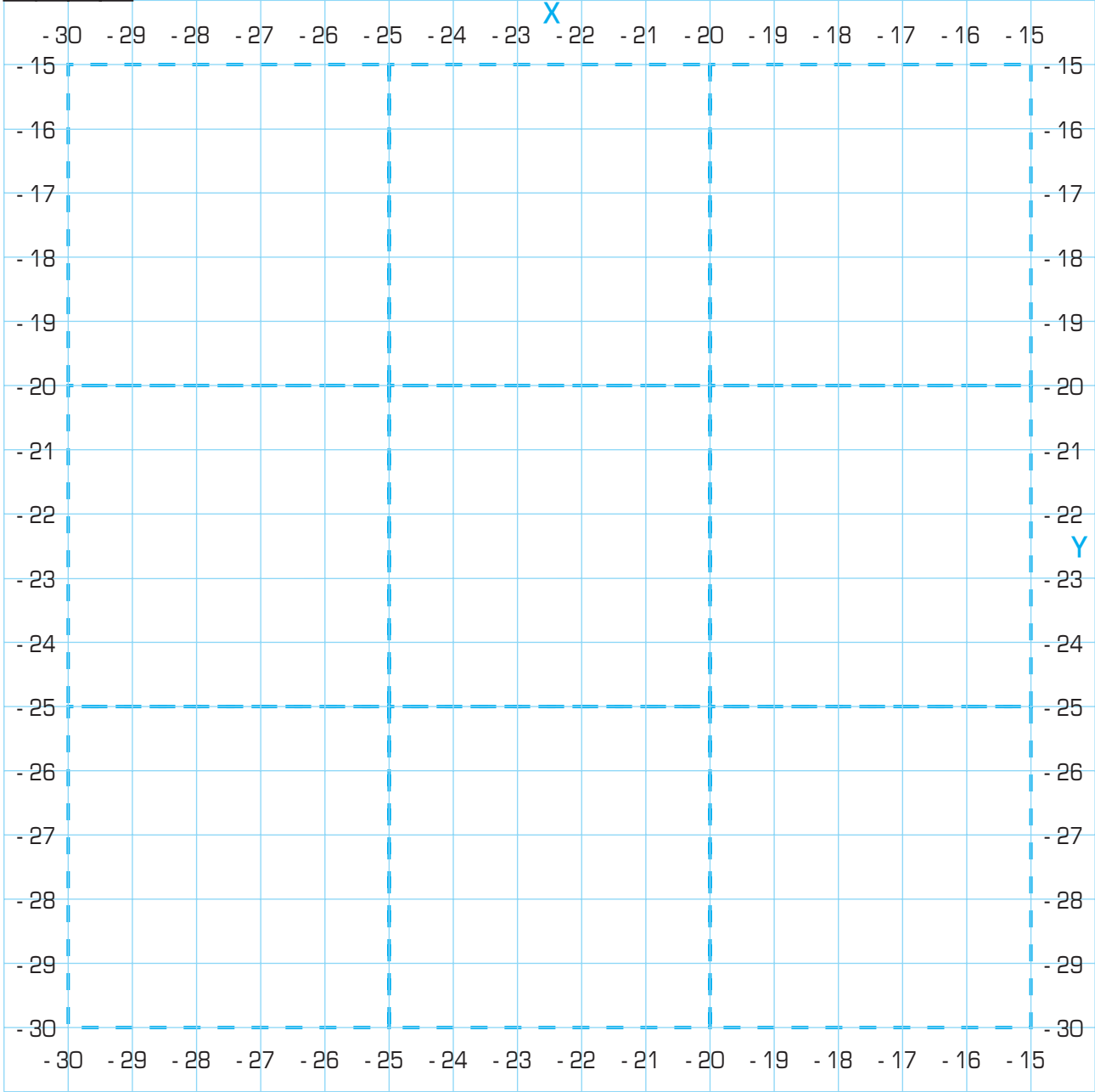
STAR	X	Y	Z	SC	LY	PP
AC +17°	+16	-13	+7	dM4	22	
BD +15°	+20	-6	+6	dM2	22	
DQ Pegasi a	+21	-3	+8	M4	23	
DQ Pegasi b	+21	-3	+8	M6	23	
Fomalhaut A	+19	-5	-11	A3	23	*
Fomalhaut B	+22	-6	-14	K5	27	*
Lalande 46650	+20	-1	+1	M2	20	*
LFT 1849	+19	0	-18	DA5	26	
Wolf 922	+20	-15	-4	dM4	25	

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 13

## UNIVERSE: INTERSTELLAR CHARTS

X -15 to -30, Y -15 to -30, Z +30 to -30



STAR X Y Z SC LY PP

### VOID SECTOR

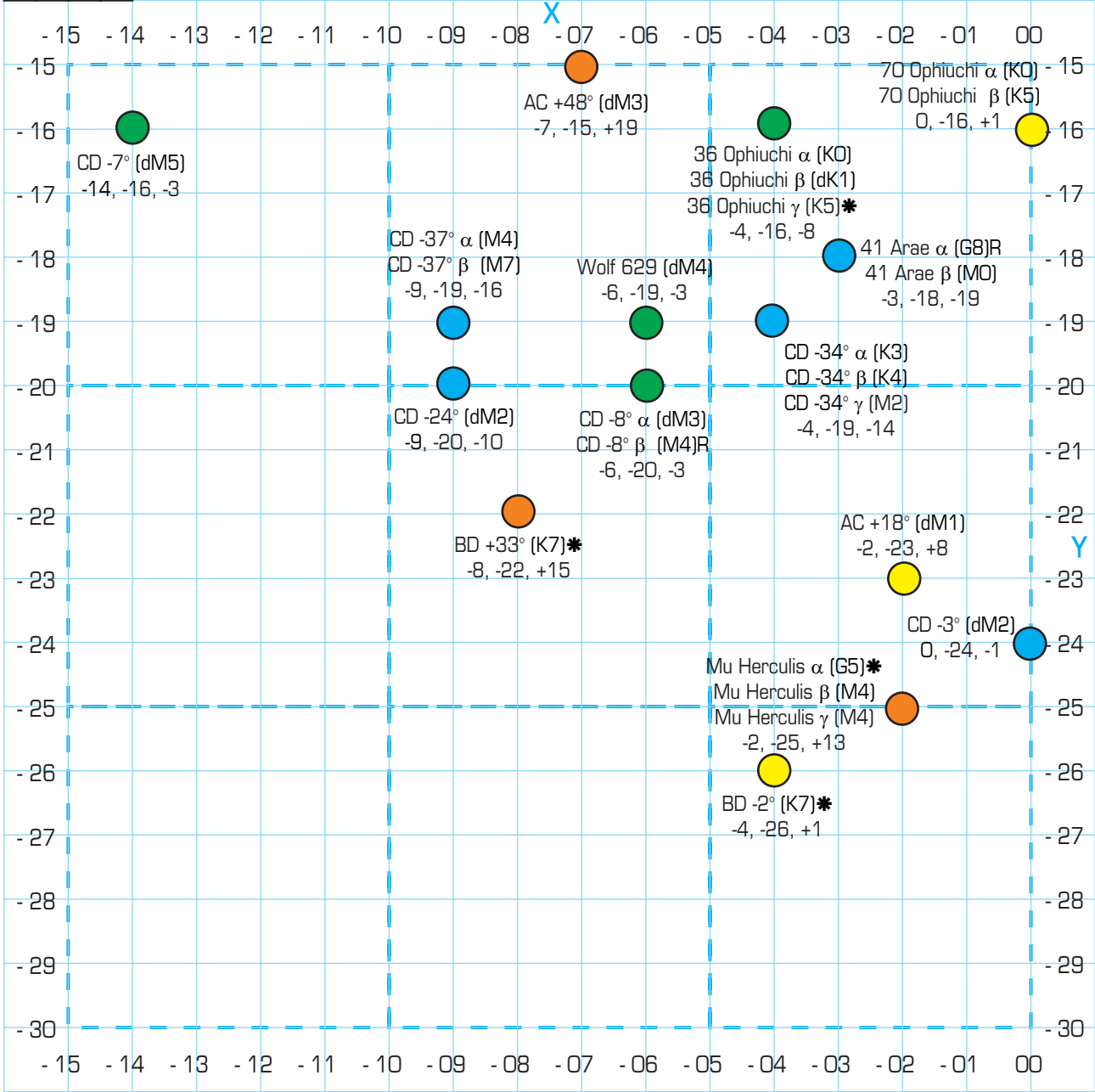
There are no charted stars on Map 13  
-15 to -30, Y -15 to -30, Z +30 to -30

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 14

## UNIVERSE: INTERSTELLAR CHARTS

X 00 to -15, Y -15 to -30, Z +30 to -30



STAR	X	Y	Z	SC	LY	PP
36 Ophiuchi a	-4	-16	-8	K0	18	
36 Ophiuchi b	-4	-16	-8	dK1	18	
36 Ophiuchi c	-4	-16	-8	K5	18	*
41 Arae a	-3	-18	-19	G8	26	R
41 Arae b	-3	-18	-19	M0	26	
70 Ophiuchi a	0	-16	+1	K0	16	
70 Ophiuchi b	0	-16	+1	K5	16	
AC +18°	-2	-23	+8	dM1	24	
AC +48°	-7	-15	+19	dM3	25	
BD +2°	-4	-26	+1	K7	26	*
BD +33°	-8	-22	+15	K7	28	*
CD -24°	-9	-20	-10	dM2	24	
CD -3°	0	-24	-1	dM2	24	
CD -34° a	-4	-19	-14	K3	24	
CD -34° b	-4	-19	-14	K4	24	
CD -34° c	-4	-19	-14	M2	24	
CD -37° a	-9	-19	-16	M4	26	
CD -37° b	-9	-19	-16	M7	26	
CD -7°	-14	-16	-3	dM5	21	
CD -8° a	-6	-20	-3	dM3	21	
CD -8° b	-6	-20	-3	M4	21	R
Mu Herculis a	-2	-25	+13	G5	28	*
Mu Herculis b	-2	-25	+13	M4	28	
Mu Herculis c	-2	-25	+13	M4	28	
Wolf 629	-6	-19	-3	dM4	20	

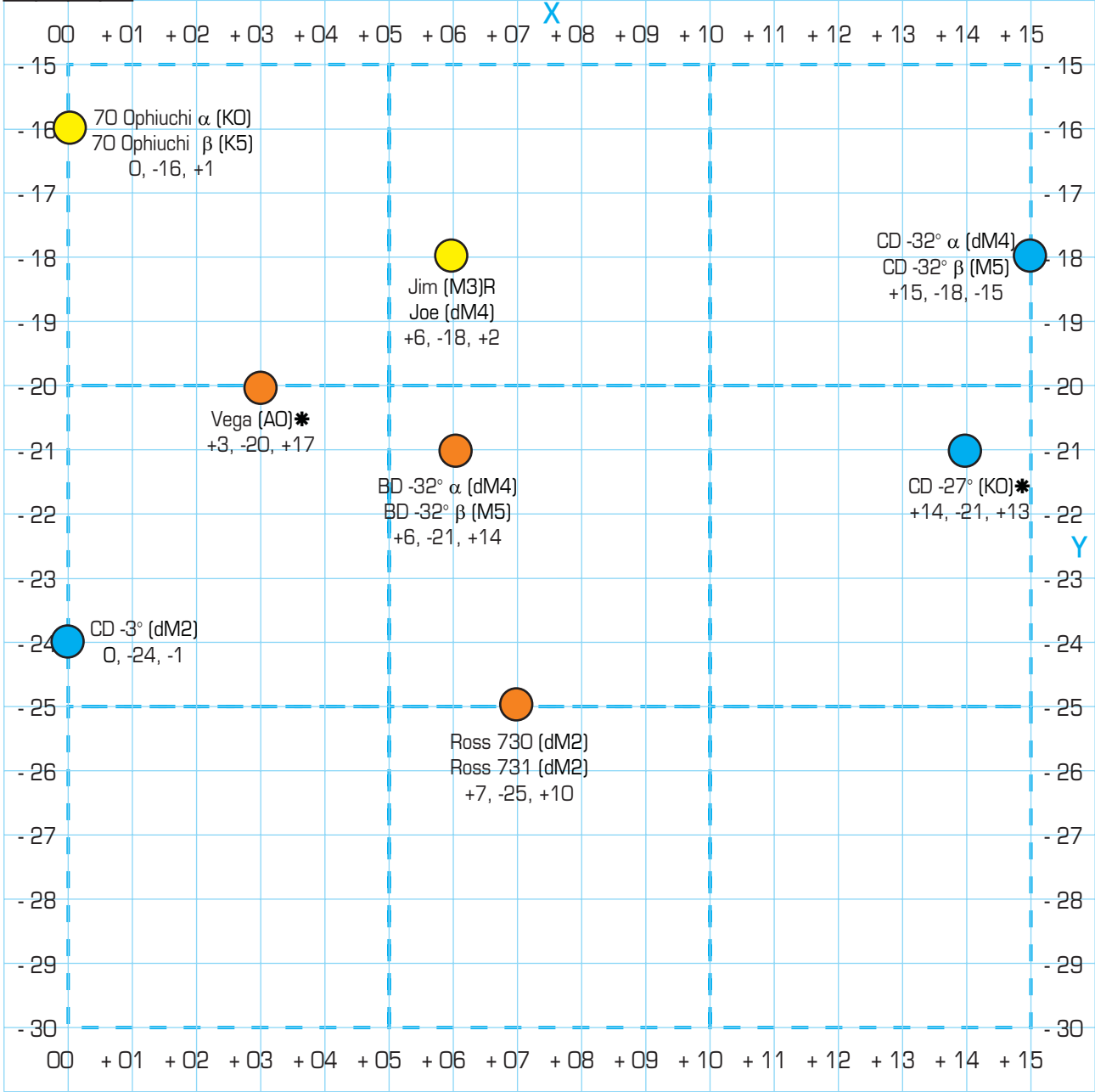


01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 15

## UNIVERSE: INTERSTELLAR CHARTS

X 00 to +15, Y -15 to -30, Z +30 to -30



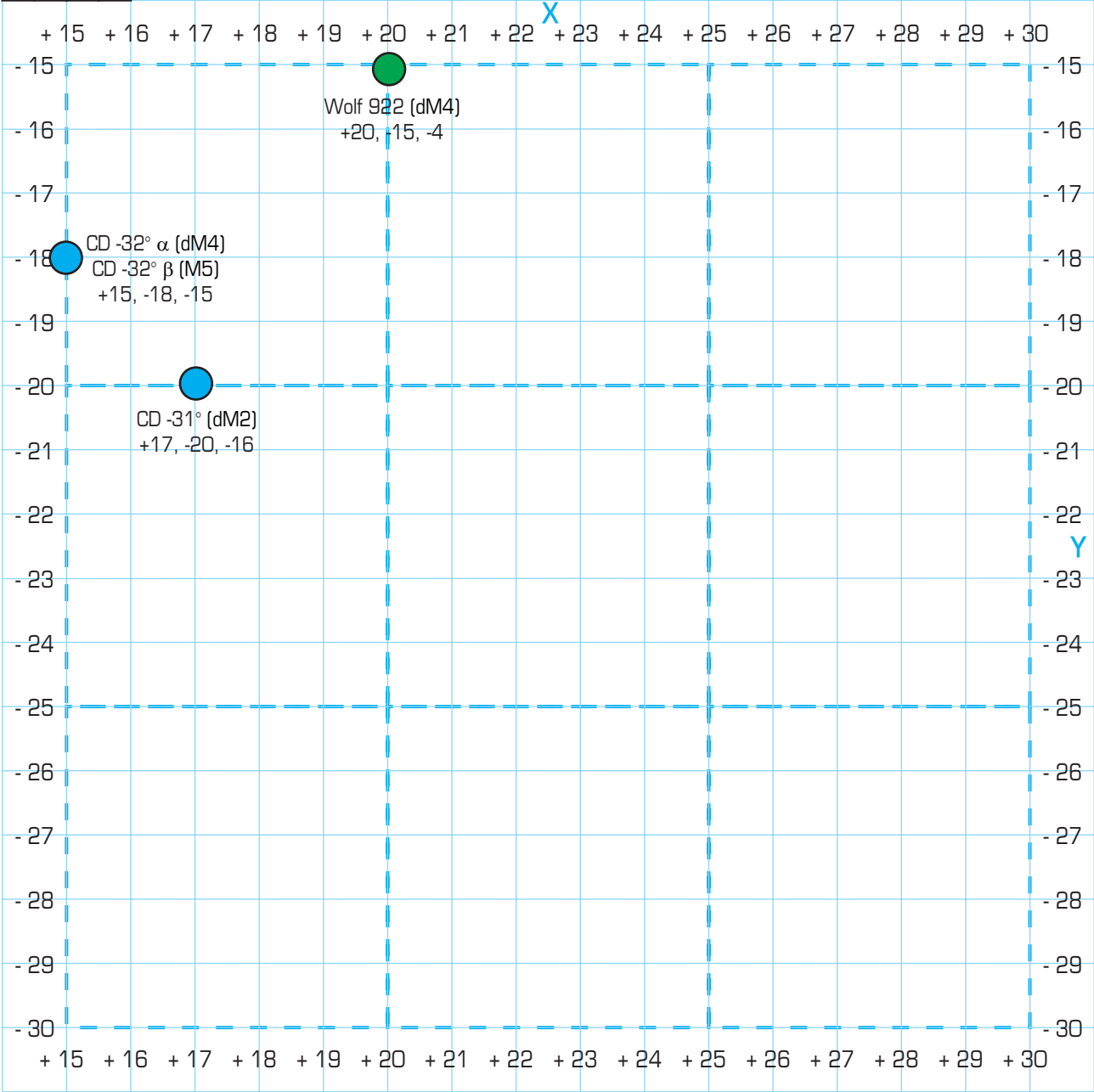
STAR	X	Y	Z	SC	LY	PP
70 Ophiuchi a	0	-16	+1	K0	16	
70 Ophiuchi b	0	-16	+1	K5	16	
BD +32° a	+6	-21	+14	dM4	26	
BD +32° b	+6	-21	+14	M5	26	
CD -27°	+14	-21	-13	K0	28	*
CD -3°	0	-24	-1	dM2	24	
CD -32° a	+15	-18	-15	dM4	28	
CD -32° b	+15	-18	-15	dM4	28	
Jim	+6	-18	+2	M3	19	R
Joe	+6	-18	+2	dM4	19	
Ross 730	+7	-25	+10	dM2	28	
Ross 731	+7	-25	+10	dM2	28	
Vega	+3	-20	+17	A0	26	*

01	02	03	04
05	06	07	08
09	10	11	12
13	14	15	16

# CHART 16

## UNIVERSE: INTERSTELLAR CHARTS

X +15 to +30, Y -15 to -30, Z +30 to -30



STAR	X	Y	Z	SC	LY	PP
CD -31°	+17	-20	-16	dM2	31	
CD -32° a	+15	-18	-15	dM4	28	
CD -32° b	+15	-18	-15	dM4	28	
Wolf 922	+20	-15	-4	dM4	25	