Messier

Observation Log

J. L. E. Dreyer's Astronomical Abbreviations

Ab.....about
alm.....almost
am.....among
app.....appended
att.....attached
b.....brighter
be.....between
biN.....binuclear
B.....bright
c.....considerably
ch.....chevelure
co.....coarse, coarsely
com.....cosmetic
cont.....in contact
C.....compressed
Cl.....cluster
d.....diameter
def.....defined
dif.....diffused
diffic.....difficult
dist.....distance, distant
D.....double
e.....extremely, excessively
ee.....most extremely
er.....easily resolvable
exc.....excentric
E.....extended
f.....following
F.....faint
g.....gradually
gr.....group
i.....irregular
inv.....involved, involving
iF.....irregular figure
l.....little, long
L.....large
m.....much
mm.....mixed magnitudes
mn.....milky nebulosity
M.....middle, or in the middle
n.....north
neb.....nebula
nf.....north following
np.....north preceding
nr.....near
N.....Nucleus
p.....pretty
p.....preceding
pg.....pretty gradually
pm.....pretty much
ps.....pretty suddenly
P.....poor
quad.....quadrilateral
quar.....quartile
r.....resolvable, mottled
rr.....partially resolved, some stars seen
rrr.....well resolved, clearly consisting of stars
R.....round
RR.....exactly round
Ri.....rich
s.....suddenly
s.....south
sp.....south preceding
sf.....south following
sc.....scattered
st.....stars
sev.....several
susp.....suspected
sh.....shaped
stell.....stellar
S.....small
sm.....smaller
triN.....trinuclear
trap.....trapezium
v.....very
vv.....very, very
var.....variable
!.....remarkable
!!.....very remarkable
!!!.....a magnificent object
st 9... .....stars from the 9th magnitude downwards
st 9...13 .....stars from the 9th to 13th magnitude

General Description Guidelines

Galaxies

Did you use direct or averted vision?
What is the overall shape?
Is the core noticeable, compact, stellar ?
Can structure be seen in the galaxy, mottling, bright or dark patches or lanes?
Are the outer edges sharp or diffuse?
Identify any other DSO in the field.

Globular Clusters

Did you use direct or averted vision?
Is the core bright, compact, or not distinguishable?
Is it highly or loosely concentrated?
Is any part of it resolved into stars, averted vision or not, or does it show mottling, or stars resolved at the edges?
Identify any other DSO in the field.

Open Clusters

Is it easily distinguished from the background stars, is it well defined?
Is there a overall shape?
How many stars can you count in the cluster?
Are the stars concentrated in any one area?
Is the cluster fully resolved or is background nebulosity noticed?
Are there areas where stars are absent in the cluster?
Are there any brighter stars in the cluster and do any stand out in color?
Identify any other DSO in the field.

Open Cluster/ Nebulosity

Did you use direct or averted vision to view the cluster and nebulosity, are filters needed?
What is the overall shape?
Are the outer edges sharply defined?
Can both the cluster and nebulosity be seen with direct vision, or is averted vision or filters needed?
What is the overall shape?
Are the outer edges sharply defined?
Are the stars concentrated in any one area?
Is the cluster embedded in the nebulosity or is there a distinct separation?
Is any part of the nebula brighter or more concentrated?
Are there any voids or dark patches or lanes, bright filaments or streamers in the nebulosity?
Identify any other DSO in the field.

Nebula

Did you use direct or averted vision? filters needed?
What is the overall shape?
Are the outer edges sharply defined?
Is any part of the nebula brighter or more concentrated?
Are there any voids or dark patches or lanes, bright filaments or streamers in the nebulosity?
Is there an open cluster nearby or involved or any obvious stars involved with the nebulosity?
Identify any other DSO in the field.

Planetary Nebula

What is the overall shape, is it disk shaped or more stellar?
Are the edges sharp or diffuse?
Is it easy or difficult to identify in the field?
What is the color of the Planetary?
Is the center brighter, darker or uniform brightness as the edges?
Identify any other DSO in the field.

MESSIER OBJECTS LOG

NGC #	Data		Notes	Sketch
1 Tau	Date	Time		
NGC 1952	See/Transp	Inst/Power		
9 PIN	5h 34.5m	22d 1'	6' X 4'	
2 Aqr	Date	Time		
NGC 7089	See/Transp	Inst/Power		
7.5 GCl	21h 33.5m	0d 49'	12.9'	
3 CVn	Date	Time		
NGC 5272	See/Transp	Inst/Power		
7 GCl	13h 42.2m	28d 23'	16.2'	
4 Sco	Date	Time		
NGC 6121	See/Transp	Inst/Power		
7.5 GCl	16h 23.6m	-26d 32'	26.3'	
5 Ser	Date	Time		
NGC 5904	See/Transp	Inst/Power		
7 GCl	15h 18.6m	2d 5'	17.4'	
6 Sco	Date	Time		
NGC 6405	See/Transp	Inst/Power		
4.5 OCl	17h 40.1m	-32d 13'	15.0'	
7 Sco	Date	Time		
NGC 6475	See/Transp	Inst/Power		
3.5 OCl	17h 53.9m	-34d 49'	80.0'	
8 Sgr	Date	Time		
NGC 6523	See/Transp	Inst/Power		
5 C/N	18h 3.1m	-24d 23'	60' X 35'	
9 Oph	Date	Time		
NGC 6333	See/Transp	Inst/Power		
9 GCl	17h 19.2m	-18d 31'	9.3'	
10 Oph	Date	Time		
NGC 6254	See/Transp	Inst/Power		
7.5 GCl	16h 57.1m	-4d 6'	15.1'	

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NGC #	Data		Notes	Sketch
11 Sct	Date	Time		
NGC 6705	See/Transp	Inst/Power		
7 OCl	18h 51.1m	-6d 16'	14.0'	
12 Oph	Date	Time		
NGC 6218	See/Transp	Inst/Power		
8 GCl	16h 47.2m	-1d 57'	14.5'	
13 Her	Date	Time		
NGC 6205	See/Transp	Inst/Power		
7 GCl	16h 41.7m	36d 28'	16.6'	
14 Oph	Date	Time		
NGC 6402	See/Transp	Inst/Power		
9.5 GCl	17h 37.6m	-3d 15'	11.7'	
15 Peg	Date	Time		
NGC 7078	See/Transp	Inst/Power		
7.5 GCl	21h 30m	12d 10'	12.3'	
16 Ser	Date	Time		
NGC 6611	See/Transp	Inst/Power		
6.5 C/N	18h 18.8m	-13d 47'	7.0'	
17 Sgr	Date	Time		
NGC 6618	See/Transp	Inst/Power		
7 C/N	18h 20.8m	-16d 11'	11.0'	
18 Sgr	Date	Time		
NGC 6613	See/Transp	Inst/Power		
8 OCl	18h 19.9m	-17d 8'	9.0'	
19 Oph	Date	Time		
NGC 6273	See/Transp	Inst/Power		
8.5 GCl	17h 2.6m	-26d 16'	13.5'	
20 Sgr	Date	Time		
NGC 6514	See/Transp	Inst/Power		
5 C/N	18h 2.3m	-23d 2'	28.0'	

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NGC #		Data		Notes	Sketch
21	Sgr	Date	Time		
NGC 6531		See/Transp	Inst/Power		
7	OCl	18h 4.6m	-22d 30'	13.0'	
22	Sgr	Date	Time		
NGC 6656		See/Transp	Inst/Power		
6.5	GCl	18h 36.4m	-29d 54'	24.0'	
23	Sgr	Date	Time		
NGC 6494		See/Transp	Inst/Power		
6	OCl	17h 56.8m	-19d 1'	27.0'	
24	Sgr	Date	Time		
NGC 6603		See/Transp	Inst/Power		
11.5	OCl	18h 18.4m	-18d 25'	NGC 6603 is only part of M24. 5.0'	
25	Sgr	Date	Time		
IC4725		See/Transp	Inst/Power		
4.9	OCl	18h 28.8m	-19d 17'	40.0'	
26	Sct	Date	Time		
NGC 6694		See/Transp	Inst/Power		
9.5	OCl	18h 45.2m	-9d 24'	15.0'	
27	Vul	Date	Time		
NGC 6853		See/Transp	Inst/Power		
7.5	PIN	19h 59.6m	22d 43'	480" X 340"	
28	Sgr	Date	Time		
NGC 6626		See/Transp	Inst/Power		
8.5	GCl	18h 24.5m	-24d 52'	11.2'	
29	Cyg	Date	Time		
NGC 6913		See/Transp	Inst/Power		
9	OCl	20h 23.9m	38d 32'	7.0'	
30	Cap	Date	Time		
NGC 7099		See/Transp	Inst/Power		
8.5	GCl	21h 40.4m	-23d 11'	11.0'	

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NGC #	Data		Notes	Sketch
31 And	Date	Time		
NGC 224	See/Transp	Inst/Power		
4.5 Gal	0h 42.8m	41d 16'	178'	
32 And	Date	Time		
NGC 221	See/Transp	Inst/Power		
10 Gal	0h 42.8m	40d 52'	8' X 6'	
33 Tri	Date	Time		
NGC 598	See/Transp	Inst/Power		
7 Gal	1h 33.9m	30d 40'	73' X 45'	
34 Per	Date	Time		
NGC 1039	See/Transp	Inst/Power		
6 OCl	2h 42m	42d 47'	35.0'	
35 Gem	Date	Time		
NGC 2168	See/Transp	Inst/Power		
5.5 OCl	6h 8.9m	24d 20'	28.0'	
36 Aur	Date	Time		
NGC 1960	See/Transp	Inst/Power		
6.5 OCl	5h 36.1m	34d 8'	12.0'	
37 Aur	Date	Time		
NGC 2099	See/Transp	Inst/Power		
6 OCl	5h 52.4m	32d 33'	24.0'	
38 Aur	Date	Time		
NGC 1912	See/Transp	Inst/Power		
7 OCl	5h 28.7m	35d 50'	21.0'	
39 Cyg	Date	Time		
NGC 7092	See/Transp	Inst/Power		
5.5 OCl	21h 32.2m	48d 26'	32.0'	
40 UMa	Date	Time		
WIN4	See/Transp	Inst/Power		
9 Dbl	12h 20m	58d 22'	49"	

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NGC #	Data		Notes	Sketch
41 CMa	Date	Time		
NGC 2287	See/Transp	Inst/Power		
5 OCl	6h 47m	-20d 44'	38.0'	
42 Ori	Date	Time		
NGC 1976	See/Transp	Inst/Power		
5 DfN	5h 35.3m	-5d 23'	85' X 60'	
43 Ori	Date	Time		
NGC 1982	See/Transp	Inst/Power		
7 DfN	5h 35.5m	-5d 16'	20' X 15'	
44 Cnc	Date	Time		
NGC 2632	See/Transp	Inst/Power		
4 OCl	8h 40.1m	19d 59'	95.0'	
45 Tau	Date	Time		
NGC 1432	See/Transp	Inst/Power		
1.4 OCl	3h 47m	24d 7'	110.0'	
46 Pup	Date	Time		
NGC 2437	See/Transp	Inst/Power		
6.5 OCl	7h 41.8m	-14d 49'	27.0'	
47 Pup	Date	Time		
NGC 2422	See/Transp	Inst/Power		
4.5 OCl	7h 36.6m	-14d 30'	30.0'	
48 Hya	Date	Time		
NGC 2548	See/Transp	Inst/Power		
5.5 OCl	8h 13.8m	-5d 48'	54.0'	
49 Vir	Date	Time		
NGC 4472	See/Transp	Inst/Power		
10 Gal	12h 29.8m	8d 1'	9' X 7.5'	
50 Mon	Date	Time		
NGC 2323	See/Transp	Inst/Power		
7 OCl	7h 3.2m	-8d 20'	16.0'	

MESSIER OBJECTS LOG

NGC #	Data		Notes	Sketch
51 CVn	Date	Time		
NGC 5194	See/Transp	Inst/Power		
8 Gal	13h 30m	47d 11'	11' X 7'	
52 Cas	Date	Time		
NGC 7654	See/Transp	Inst/Power		
8 OCl	23h 24.2m	61d 35'	13.0'	
53 Com	Date	Time		
NGC 5024	See/Transp	Inst/Power		
8.5 GCl	13h 12.9m	18d 10'	12.6'	
54 Sgr	Date	Time		
NGC 6715	See/Transp	Inst/Power		
8.5 GCl	18h 55.1m	-30d 29'	9.1'	
55 Sgr	Date	Time		
NGC 6809	See/Transp	Inst/Power		
7 GCl	19h 40m	-30d 58'	19.0'	
56 Lyr	Date	Time		
NGC 6779	See/Transp	Inst/Power		
9.5 GCl	19h 16.6m	30d 11'	7.1'	
57 Lyr	Date	Time		
NGC 6720	See/Transp	Inst/Power		
9.5 PlN	18h 53.6m	33d 2'	85.6" X 61.6"	
58 Vir	Date	Time		
NGC 4579	See/Transp	Inst/Power		
11 Gal	12h 37.8m	11d 50'	5.5' X 4.5'	
59 Vir	Date	Time		
NGC 4621	See/Transp	Inst/Power		
11.5 Gal	12h 42.1m	11d 39'	5' X 3.5'	
60 Vir	Date	Time		
NGC 4649	See/Transp	Inst/Power		
10.5 Gal	12h 43.7m	11d 34'	7' X 6'	

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NGC #	Data		Notes	Sketch
61 Vir	Date	Time		
NGC 4303	See/Transp	Inst/Power		
10.5 Gal	12h 22m	4d 29'	6' X 5.5'	
62 Oph	Date	Time		
NGC 6266	See/Transp	Inst/Power		
8 GCl	17h 1.2m	-30d 7'	14.1'	
63 CVn	Date	Time		
NGC 5055	See/Transp	Inst/Power		
8.5 Gal	13h 15.8m	42d 2'	10' X 6'	
64 Com	Date	Time		
NGC 4826	See/Transp	Inst/Power		
9 Gal	12h 56.7m	21d 41'	9.3' X 5.4'	
65 Leo	Date	Time		
NGC 3623	See/Transp	Inst/Power		
10.5 Gal	11h 18.9m	13d 6'	8' X 1.5'	
66 Leo	Date	Time		
NGC 3627	See/Transp	Inst/Power		
10 Gal	11h 20.2m	13d 0'	8' X 2.5'	
67 Cnc	Date	Time		
NGC 2682	See/Transp	Inst/Power		
7.5 OCl	8h 50.4m	11d 49'	30.0'	
68 Hya	Date	Time		
NGC 4590	See/Transp	Inst/Power		
9 GCl	12h 39.5m	-26d 45'	12.0'	
69 Sgr	Date	Time		
NGC 6637	See/Transp	Inst/Power		
9 GCl	18h 34.4m	-32d 21'	7.1'	
70 Sgr	Date	Time		
NGC 6681	See/Transp	Inst/Power		
9 GCl	18h 43.2m	-32d 18'	7.8'	

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NGC #	Data		Notes	Sketch
71 Sge	Date	Time		
NGC 6838	See/Transp	Inst/Power		
8.5 GCl	19h 53.8m	18d 47'	7.2'	
72 Aqr	Date	Time		
NGC 6981	See/Transp	Inst/Power		
10 GCl	20h 53.5m	-12d 32'	5.9'	
73 Aqr	Date	Time		
NGC 6994	See/Transp	Inst/Power		
9 OCl	20h 59m	-12d 38'	2.8'	
74 Psc	Date	Time		
NGC 628	See/Transp	Inst/Power		
10.5 Gal	1h 36.6m	15d 48'	10.2' X 9.5'	
75 Sgr	Date	Time		
NGC 6864	See/Transp	Inst/Power		
9.5 GCl	20h 6.1m	-21d 55'	6.0'	
76 Per	Date	Time		
NGC 650	See/Transp	Inst/Power		
12 PlN	1h 42.4m	51d 34'	163" X 107"	
77 Cet	Date	Time		
NGC 1068	See/Transp	Inst/Power		
10.5 Gal	2h 42.7m	0d 2'	7' X 6'	
78 Ori	Date	Time		
NGC 2068	See/Transp	Inst/Power		
8 DfN	5h 46.8m	0d 4'	8' X 6'	
79 Lep	Date	Time		
NGC 1904	See/Transp	Inst/Power		
8.5 GCl	5h 24.5m	-24d 33'	8.7'	
80 Sco	Date	Time		
NGC 6093	See/Transp	Inst/Power		
8.5 GCl	16h 17m	-22d 59'	8.9'	

MESSIER OBJECTS LOG

NGC #	Data		Notes	Sketch
81 UMa	Date	Time		
NGC 3031	See/Transp	Inst/Power		
8.5 Gal	9h 55.6m	69d 4'	21' X 10'	
82 UMa	Date	Time		
NGC 3034	See/Transp	Inst/Power		
9.5 Gal	9h 55.9m	69d 41'	9' X 4'	
83 Hya	Date	Time		
NGC 5236	See/Transp	Inst/Power		
8.5 Gal	13h 37.1m	-29d 52'	11' X 10'	
84 Vir	Date	Time		
NGC 4374	See/Transp	Inst/Power		
11 Gal	12h 25.1m	12d 54'	5.0'	
85 Com	Date	Time		
NGC 4382	See/Transp	Inst/Power		
10.5 Gal	12h 25.5m	18d 12'	7.1' X 5.2'	
86 Vir	Date	Time		
NGC 4406	See/Transp	Inst/Power		
11 Gal	12h 26.3m	12d 57'	7.5' X 5.5'	
87 Vir	Date	Time		
NGC 4486	See/Transp	Inst/Power		
11 Gal	12h 30.9m	12d 24'	7.0'	
88 Com	Date	Time		
NGC 4501	See/Transp	Inst/Power		
11 Gal	12h 32.1m	14d 26'	7' X 4'	
89 Vir	Date	Time		
NGC 4552	See/Transp	Inst/Power		
11.5 Gal	12h 35.7m	12d 34'	4.0'	
90 Vir	Date	Time		
NGC 4569	See/Transp	Inst/Power		
11 Gal	12h 36.9m	13d 10'	9.5' X 4.5'	

MESSIER OBJECTS LOG

NGC #	Data		Notes	Sketch
91 Com	Date	Time		
NGC 4548	See/Transp	Inst/Power		
11.5 Gal	12h 35.5m	14d 30'	5.4' X 4.4'	
92 Her	Date	Time		
NGC 6341	See/Transp	Inst/Power		
7.5 GCl	17h 17.1m	43d 8'	11.2'	
93 Pup	Date	Time		
NGC 2447	See/Transp	Inst/Power		
6.5 OCl	7h 44.6m	-23d 52'	22.0'	
94 CVn	Date	Time		
NGC 4736	See/Transp	Inst/Power		
9.5 Gal	12h 50.9m	41d 8'	7' X 3'	
95 Leo	Date	Time		
NGC 3351	See/Transp	Inst/Power		
11 Gal	10h 43.9m	11d 42'	4.4' X 3.3'	
96 Leo	Date	Time		
NGC 3368	See/Transp	Inst/Power		
10.5 Gal	10h 46.7m	11d 49'	6' X 4'	
97 UMa	Date	Time		
NGC 3587	See/Transp	Inst/Power		
12 PlN	11h 14.8m	55d 1'	202" X 196"	
98 Com	Date	Time		
NGC 4192	See/Transp	Inst/Power		
11 Gal	12h 13.9m	14d 55'	9.5' X 3.2'	
99 Com	Date	Time		
NGC 4254	See/Transp	Inst/Power		
10.5 Gal	12h 18.9m	14d 26'	5.4' X 4.8'	
100 Com	Date	Time		
NGC 4321	See/Transp	Inst/Power		
10.5 Gal	12h 23m	15d 50'	7' X 6'	

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NGC #	Data		Notes	Sketch
101 UMa	Date	Time		
NGC 5457	See/Transp	Inst/Power		
8.5 Gal	14h 3.3m	54d 22'	22.0'	
102 Dra	Date	Time		
NGC 5866	See/Transp	Inst/Power		
10.5 Gal	15h 6.5m	55d 45'	5.2' X 2.3'	
103 Cas	Date	Time		
NGC 581	See/Transp	Inst/Power		
7 OCl	1h 33.2m	60d 42'	6.0'	
104 Vir	Date	Time		
NGC 4594	See/Transp	Inst/Power		
9.5 Gal	12h 39.9m	-11d 37'	9' X 4'	
105 Leo	Date	Time		
NGC 3379	See/Transp	Inst/Power		
11 Gal	10h 47.8m	12d 35'	2.0'	
106 CVn	Date	Time		
NGC 4258	See/Transp	Inst/Power		
9.5 Gal	12h 18.9m	47d 19'	19' X 8'	
107 Oph	Date	Time		
NGC 6171	See/Transp	Inst/Power		
10 GCl	16h 32.5m	-13d 3'	10.0'	
108 UMa	Date	Time		
NGC 3556	See/Transp	Inst/Power		
11 Gal	11h 11.6m	55d 41'	8' X 1'	
109 UMa	Date	Time		
NGC 3992	See/Transp	Inst/Power		
11 Gal	11h 57.6m	53d 23'	7' X 4'	
110 And	Date	Time		
NGC 205	See/Transp	Inst/Power		
10 Gal	0h 40.4m	41d 41'	17' X 10'	

Messier Object Checklist

	Name	Type	Con	Mag	Date	Location / Notes
M1	Crab Nebula, Taurus A	P Neb	Tau	8.4		
M2	M2,NGC7089	Globular	Agr	7.5		
M3	M3,NGC5272	Globular	Cvn	7		
M4	Cat's Eye	Globular	Sco	7.5		
M5	M5,NGC5904	Globular	Ser	7		
M6	Butterfly Cluster	Open	Sco	4.5		
M7	Scorpion's Tail, Ptolemy's Cluster	Open	Sco	3.5		
M8	Lagoon Nebula, Dragon Nebula	Open+D Neb	Sgr	5		
M9	M9,NGC6333	Globular	Oph	9		
M10	M10,NGC6254	Globular	Oph	7.5		
M11	Wild Duck Cluster	Open	Sct	7		
M12	Gumball Globular	Globular	Oph	8		
M13	Hercules Globular Cluster	Globular	Her	7		
M14	M14,NGC6402	Globular	Oph	9.5		
M15	Great Pegasus Cluster	Globular	Peg	7.5		
M16	Eagle Nebula, The Ghost	Open+D Neb	Ser	6.5		
M17	Omega Nebula, Swan Nebula	Open+D Neb	Sgr	7		
M18	Black Swan	Open	Sgr	8		
M19	M19,NGC6273	Globular	Oph	8.5		
M20	Trifid Nebula, The Clover	Open+D Neb	Sgr	5		
M21	M21,NGC6531	Open	Sgr	7		
M22	Great Sagittarius Cluster	Globular	Sgr	6.5		
M23	M23,NGC6494	Open	Sgr	6		
M24	Small Sagittarius Star Cloud	Open	Sgr	4.5		
M25	M25	Open	Sgr	6.5		
M26	M26,NGC6694	Open	Sct	9.5		

M27	Dumbbell Nebula	P Neb	Vul	7.5		
M28	M28,NGC6626	Globular	Sgr	8.5		
M29	Cooling Tower	Open	Cyg	9		
M30	M30,NGC7099	Globular	Cap	8.5		
M31	Andromeda Galaxy	Galaxy	And	4.3		
M32	Satellite Of Andromeda Galaxy	Galaxy	And	9.1		
M33	Triangulum Galaxy, Pinwheel Galaxy	Galaxy	Tri	6.2		
M34	Spiral Cluster	Open	Per	6		
M35	M35,NGC2168	Open	Gem	5.5		
M36	Pinwheel Cluster	Open	Aur	6.5		
M37	Auriga Salt-and-pepper Cluster	Open	Aur	6		
M38	Starfish Cluster	Open	Aur	7		
M39	M39,NGC7092	Open	Cyg	5.5		
M40	Winnecke 4	Dbl+Asterism	Uma	8.7		
M41	Little Beehive	Open	Cma	5		
M42	Great Orion Nebula, Orion A	Open+D Neb	Ori	4		
M43	De Mairan's Nebula	D Neb	Ori	9		
M44	Praesepe, Beehive Cluster	Open	Cnc	4		
M45	Pleiades, Seven Sisters, Subaru	Open	Tau	1.6		
M46	M46,NGC2437	Open	Pup	6.5		
M47	M47,NGC2422	Open	Pup	4.5		
M48	M48,NGC2548	Open	Hya	5.5		
M49	M49,NGC4472,UGC7629	Galaxy	Vir	9.3		
M50	Heart-shaped Cluster	Open	Mon	7		
M51	Whirlpool Galaxy	Galaxy	Cvn	8.9		
M52	The Scorpion	Open	Cas	8		
M53	M53,NGC5024	Globular	Com	8.5		
M54	M54,NGC6715	Globular	Sgr	8.5		

M55	M55,NGC6809	Globular	Sgr	7		
M56	M56,NGC6779	Globular	Lyr	9.5		
M57	Ring Nebula	P Neb	Lyr	9.5		
M58	M58,NGC4579,UGC7796	Galaxy	Vir	10.4		
M59	M59,NGC4621,UGC7858	Galaxy	Vir	10.7		
M60	M60,NGC4649,UGC7898	Galaxy	Vir	9.8		
M61	Swelling Spiral	Galaxy	Vir	10.1		
M62	Flickering Globular	Globular	Oph	8		
M63	Sunflower Galaxy	Galaxy	Cvn	9.3		
M64	Black Eye Galaxy	Galaxy	Com	9.3		
M65	Leo Triplet	Galaxy	Leo	10.1		
M66	Leo Triplet	Galaxy	Leo	9.7		
M67	King Cobra	Open	Cnc	7.5		
M68	M68,NGC4590	Globular	Hya	9		
M69	M69,NGC6637	Globular	Sgr	9		
M70	M70,NGC6681	Globular	Sgr	9		
M71	M71,NGC6838	Globular	Sge	8.5		
M72	M72,NGC6981	Globular	Agr	10		
M73	M73,NGC6994	Open+Asterism	Agr	9		
M74	The Phantom	Galaxy	Psc	9.8		
M75	M75,NGC6864	Globular	Vul	9.5		
M76	Little Dumbbell Nebula	P Neb	Per	12		
M77	Cetus A	Galaxy	Cet	9.7		
M78	M78,NGC2068	D Neb	Ori	8		
M79	M79,NGC1904	Globular	Lep	8.5		
M80	M80,NGC6093	Globular	Sco	8.5		
M81	Bode's Galaxy	Galaxy	Uma	7.8		
M82	Cigar Galaxy, Ursa Major A	Galaxy	Uma	9.2		

M83	Southern Pinwheel Galaxy	Galaxy	Hya	8		
M84	M84,NGC4374,UGC7494	Galaxy	Vir	10.2		
M85	M85,NGC4382,UGC7508	Galaxy	Com	10		
M86	M86,NGC4406,UGC7532	Galaxy	Vir	9.9		
M87	Smoking Gun, Virgo A	Galaxy	Vir	9.6		
M88	M88,NGC4501,UGC7675	Galaxy	Com	10.2		
M89	M89,NGC4552,UGC7760	Galaxy	Vir	10.9		
M90	M90,NGC4569,UGC7786	Galaxy	Vir	10.2		
M91	Missing Messier Object	Galaxy	Com	10.9		
M92	M92,NGC6341	Globular	Her	7.5		
M93	M93,NGC2447	Open	Pup	6.5		
M94	Croc's Eye Galaxy	Galaxy	Cvn	8.9		
M95	M95,NGC3351,UGC5850	Galaxy	Leo	10.6		
M96	M96,NGC3368,UGC5882	Galaxy	Leo	10.1		
M97	Owl Nebula	P Neb	Uma	12		
M98	M98,NGC4192,UGC7231	Galaxy	Com	10.9		
M99	Virgo Cluster Pinwheel	Galaxy	Com	10.4		
M100	Mirror of M99	Galaxy	Com	10.1		
M101	Pinwheel Galaxy	Galaxy	Uma	8.2		
M102	Spindle Galaxy (duplicate of 101?)	Galaxy	Dra	10.8		
M103	M103,NGC581	Open	Cas	7		
M104	Sombrero Galaxy	Galaxy	Vir	9.2		
M105	M105,NGC3379,UGC5902	Galaxy	Leo	10.5		
M106	M106,NGC4258,UGC7353	Galaxy	Cvn	9.1		
M107	M107,NGC6171	Globular	Oph	10		
M108	M108,NGC3556,UGC6225	Galaxy	Uma	10.6		
M109	M109,NGC3992,UGC6937	Galaxy	Uma	10.6		
M110	Satellite Of Andromeda Galaxy	Galaxy	And	8.9		

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Observing Log

Observer: _____ **Location:** _____ **Page:** _____

INDEX	Period - Instrument		Notes
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
Object	Date	Time	
	Power	Seeing	
	Type Instrument		
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	Type Instrument		
Object	Date	Time	
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Object	Date	Time	
	Power	Seeing	
	Type Instrument		

Messier Observation Log

Documenting the Observations of

_____

Telescope(s) - Finderscope - Binoculars

Make	Model	Size	FL	F#	Other	Abr.

Observing Sites

Site Name	Latitude	Longitude	Alt.	Dark Index	Abr.

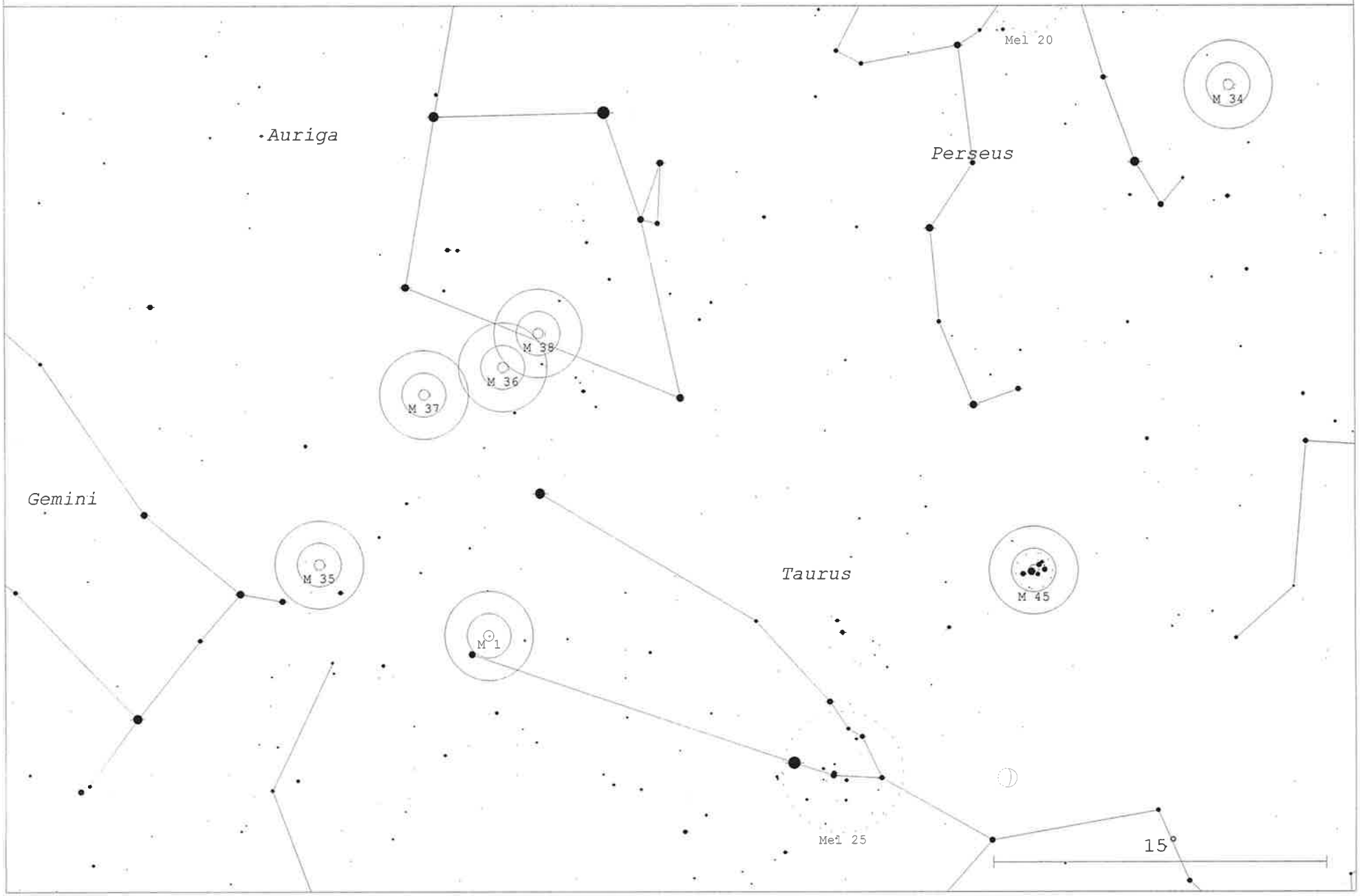
Eyepieces

Make	Type	Size	AFOV	FOV	Mag	Abrev.

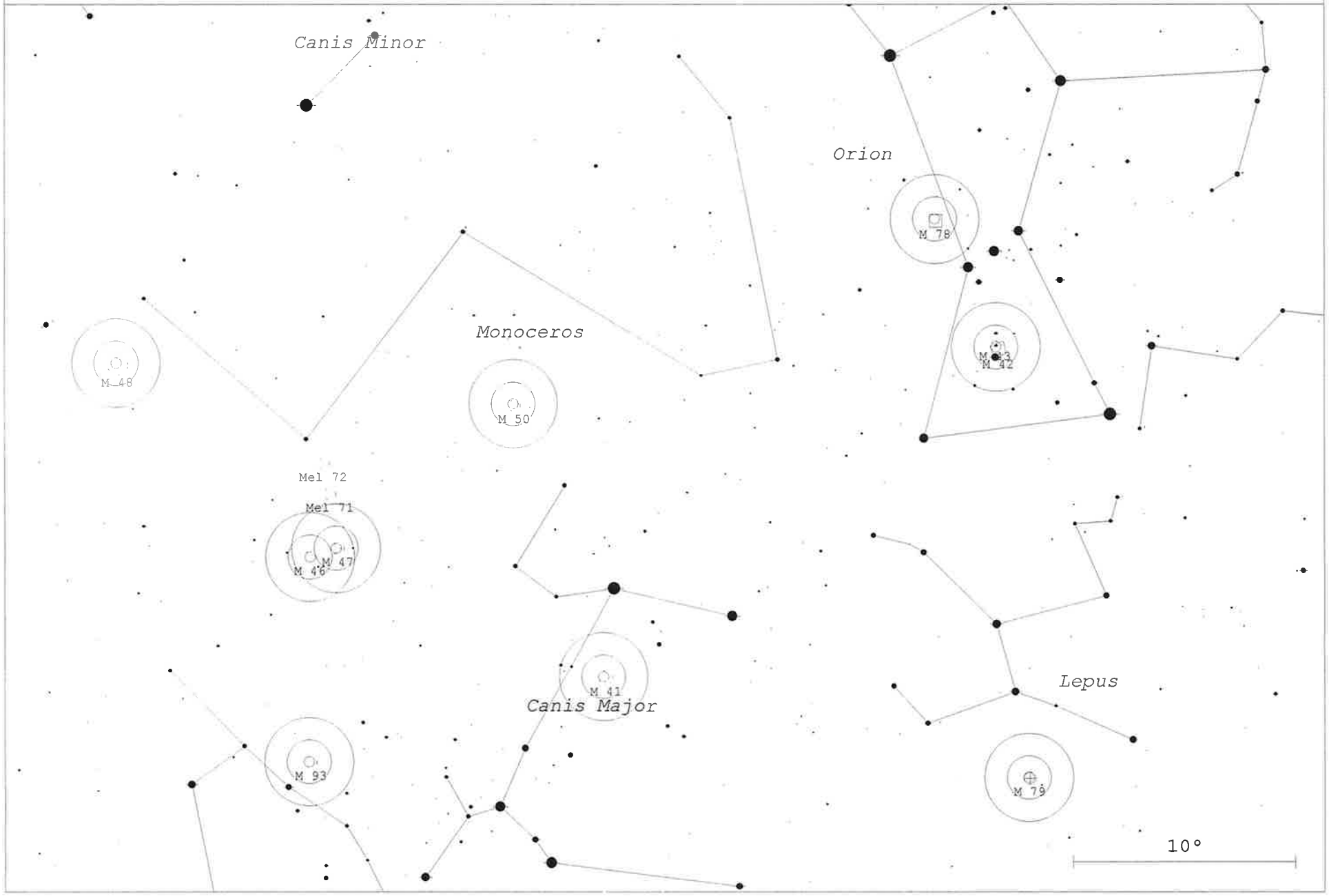
Filters & Accessories

Make	Type	Size	Abrev.

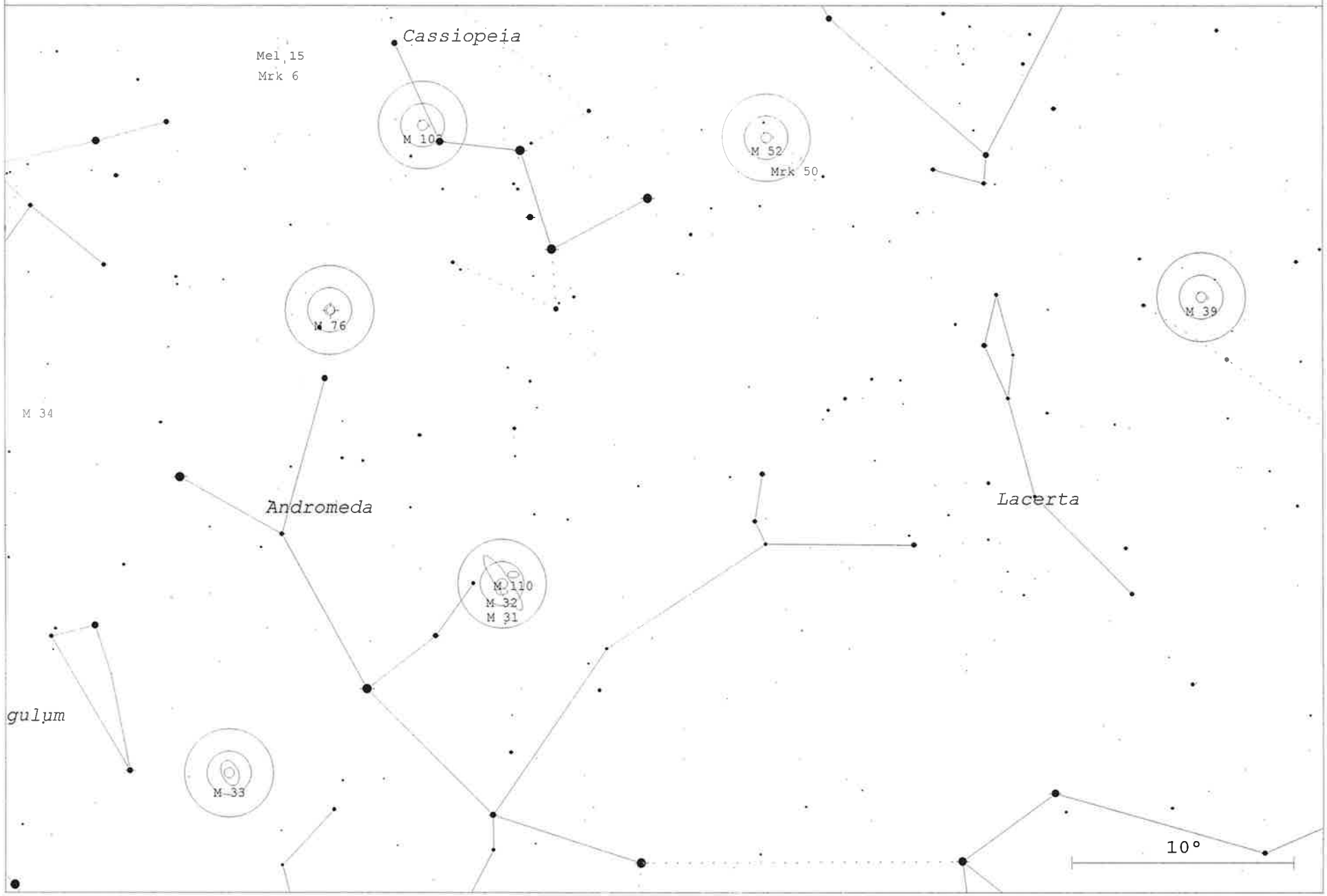
[Chart 1] M1, M34, M35, M36, M37, M38, M45



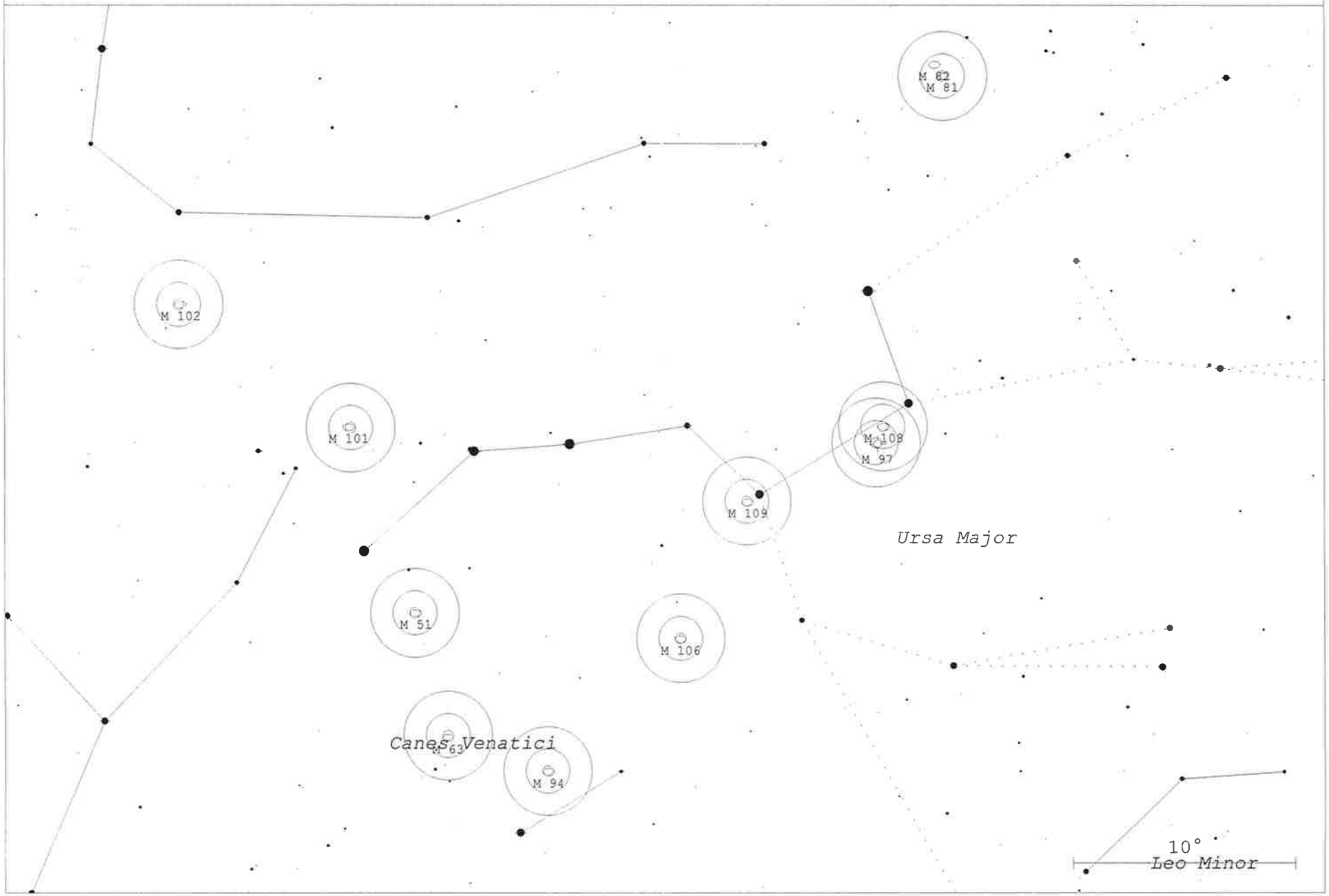
[Chart 2] M41, M42, M46, M47, M48, M50, M78, M79, M93



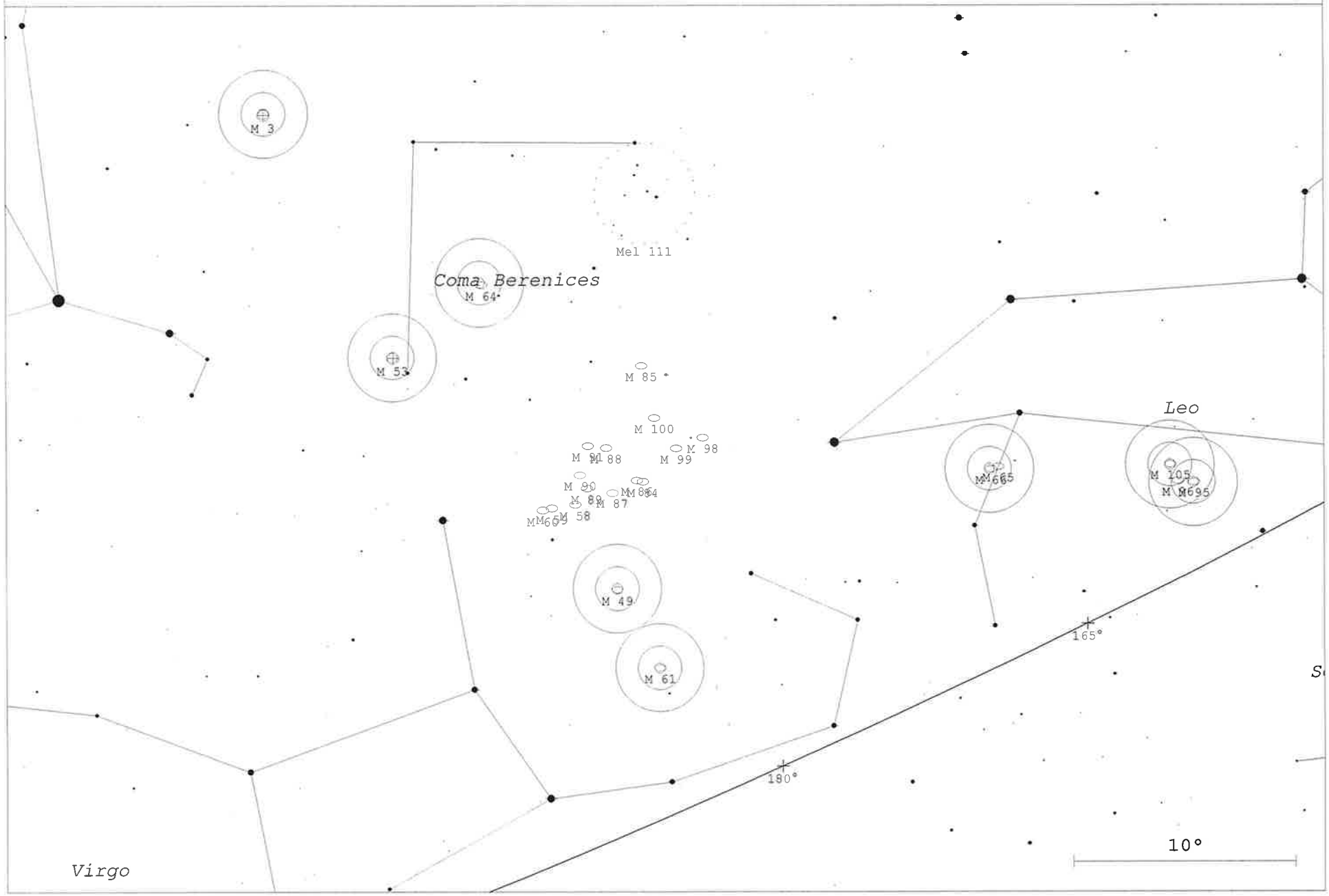
[Chart 3] M31, M32, M33, M39, M76, M52, M103, M110



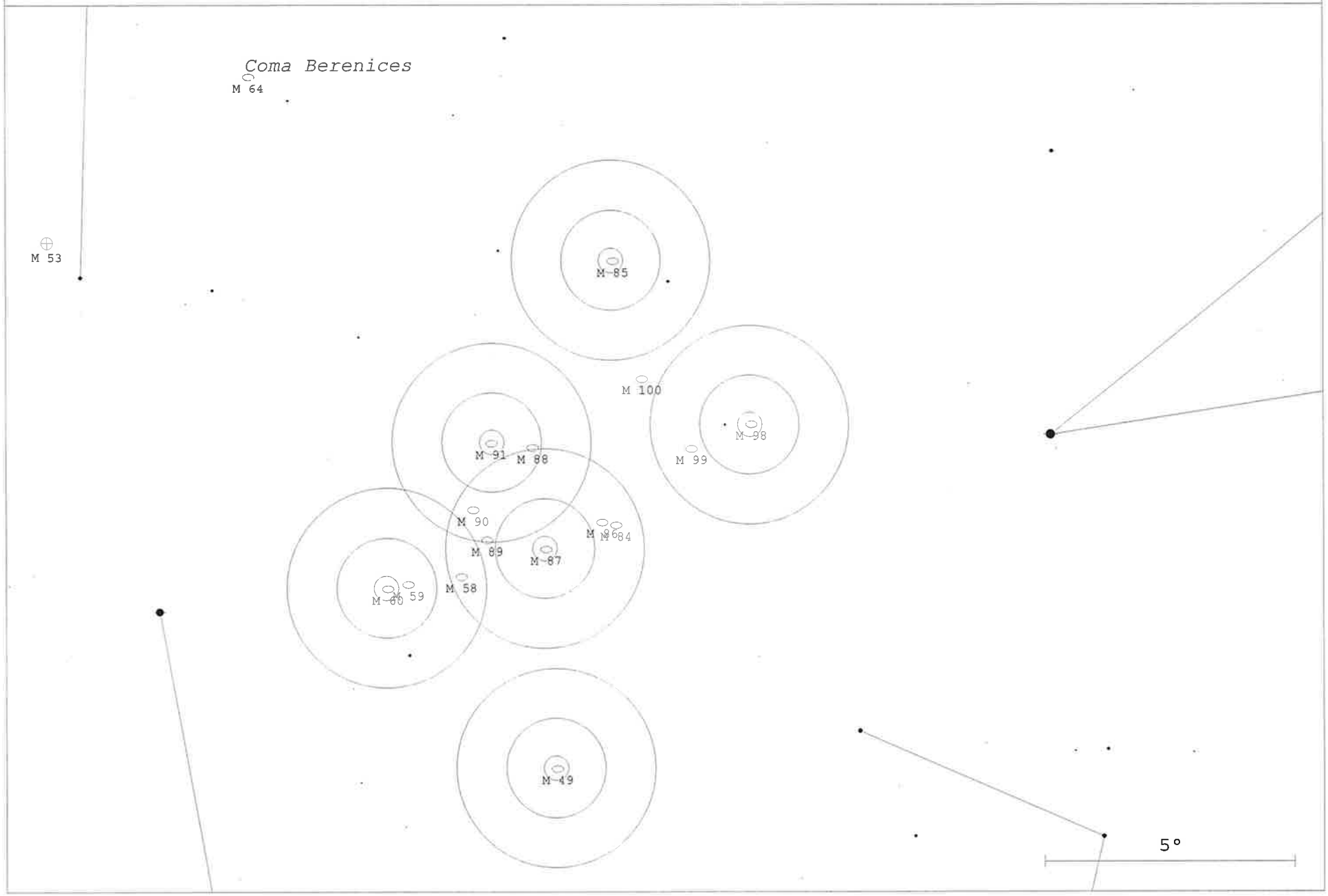
[Chart 4] M51, M63, M81, M82, M94, M97, M101, M102, 106, M108, M109



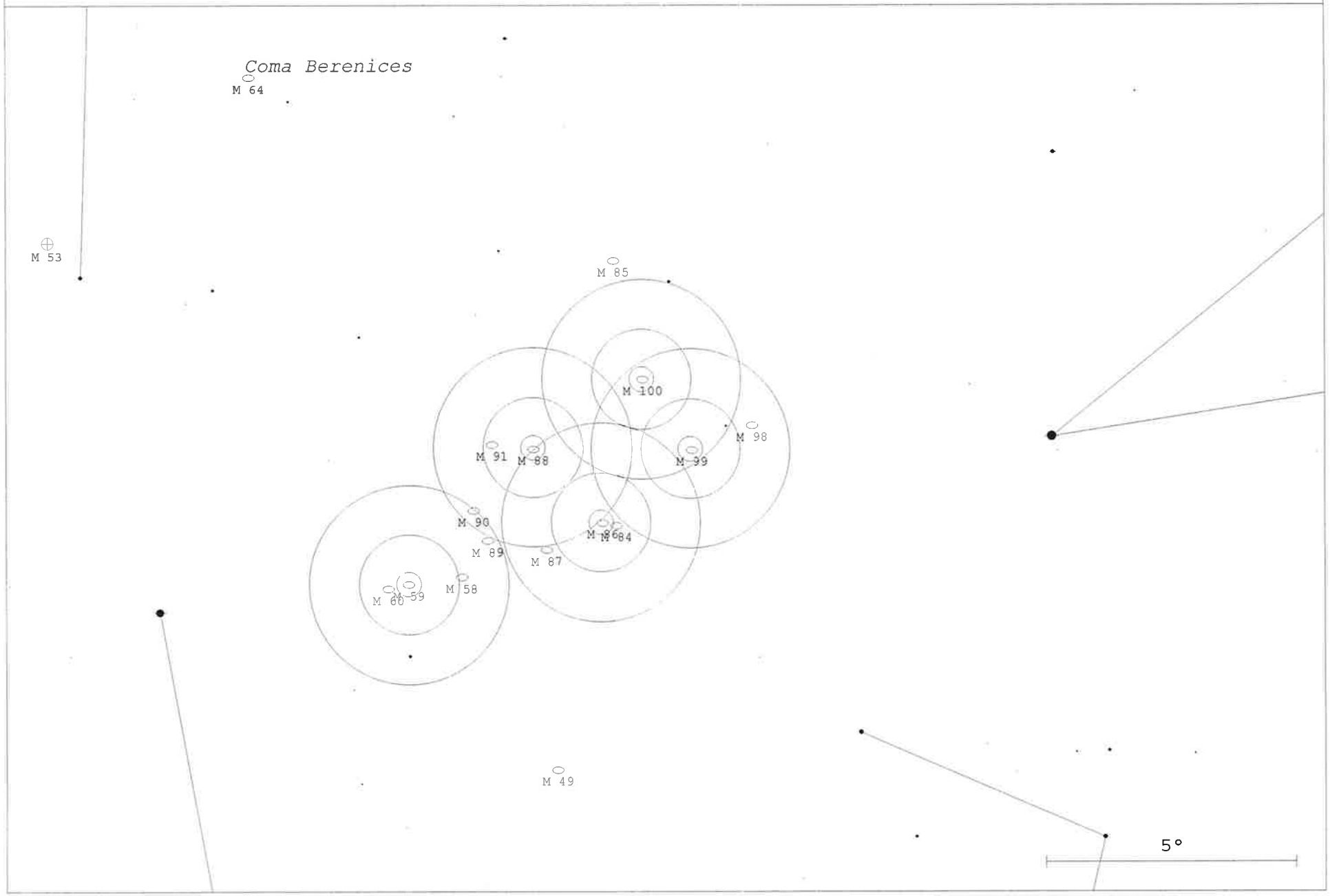
[Chart 5] M3, M49, M53, M61, M64, M65, M66, M95, M95, M105



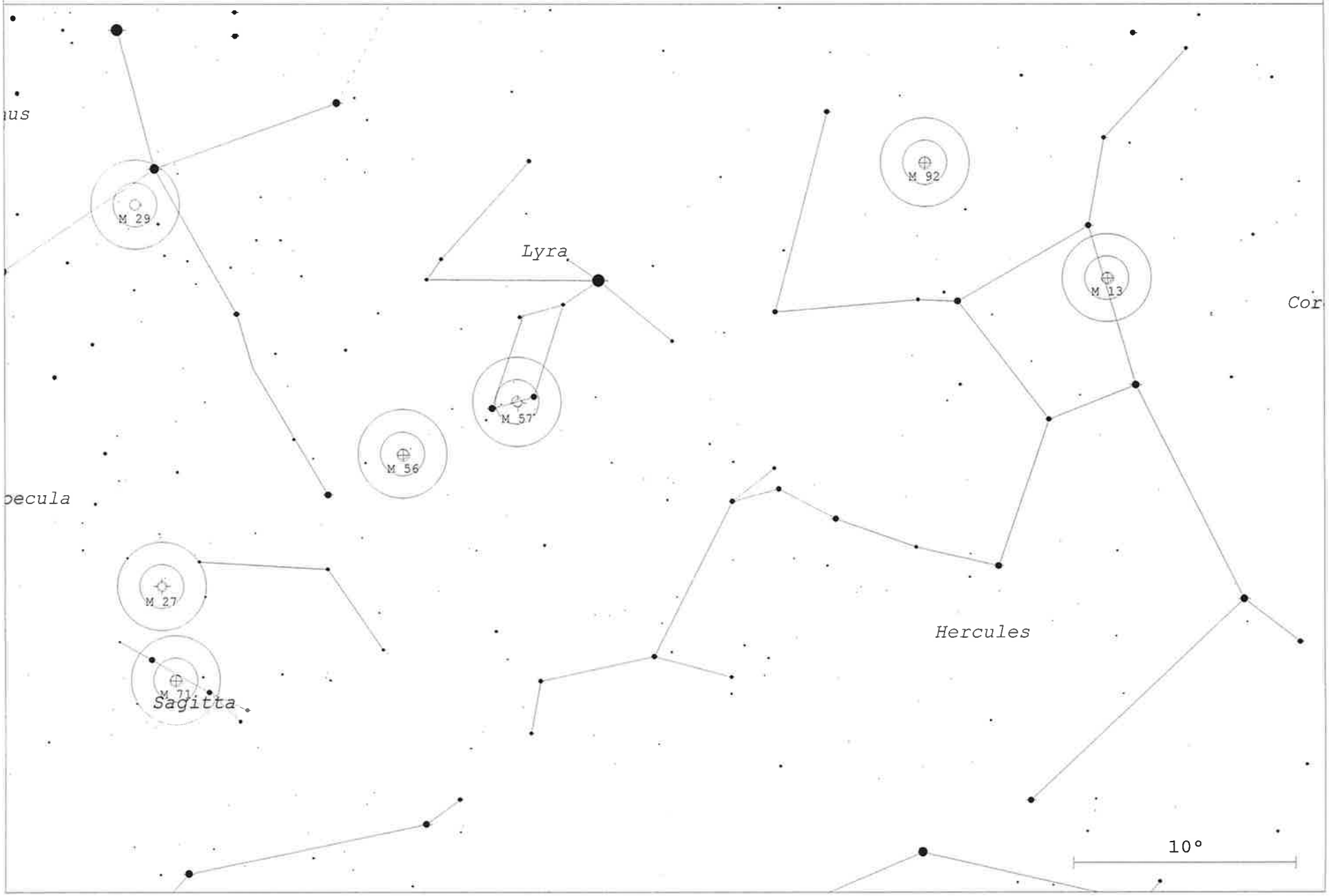
[Chart 6] M49, M60, M85, M87, M91, M98



[Chart 7] M58, M59, M84, M86, M88, M89, M90, M99, M100



[Chart 8] M13, M27, M29, M56, M57, M71, M92



[Chart 9] M4, M5, M9, M10, M12, M14, M19, M20, M23, M62, M80, M107

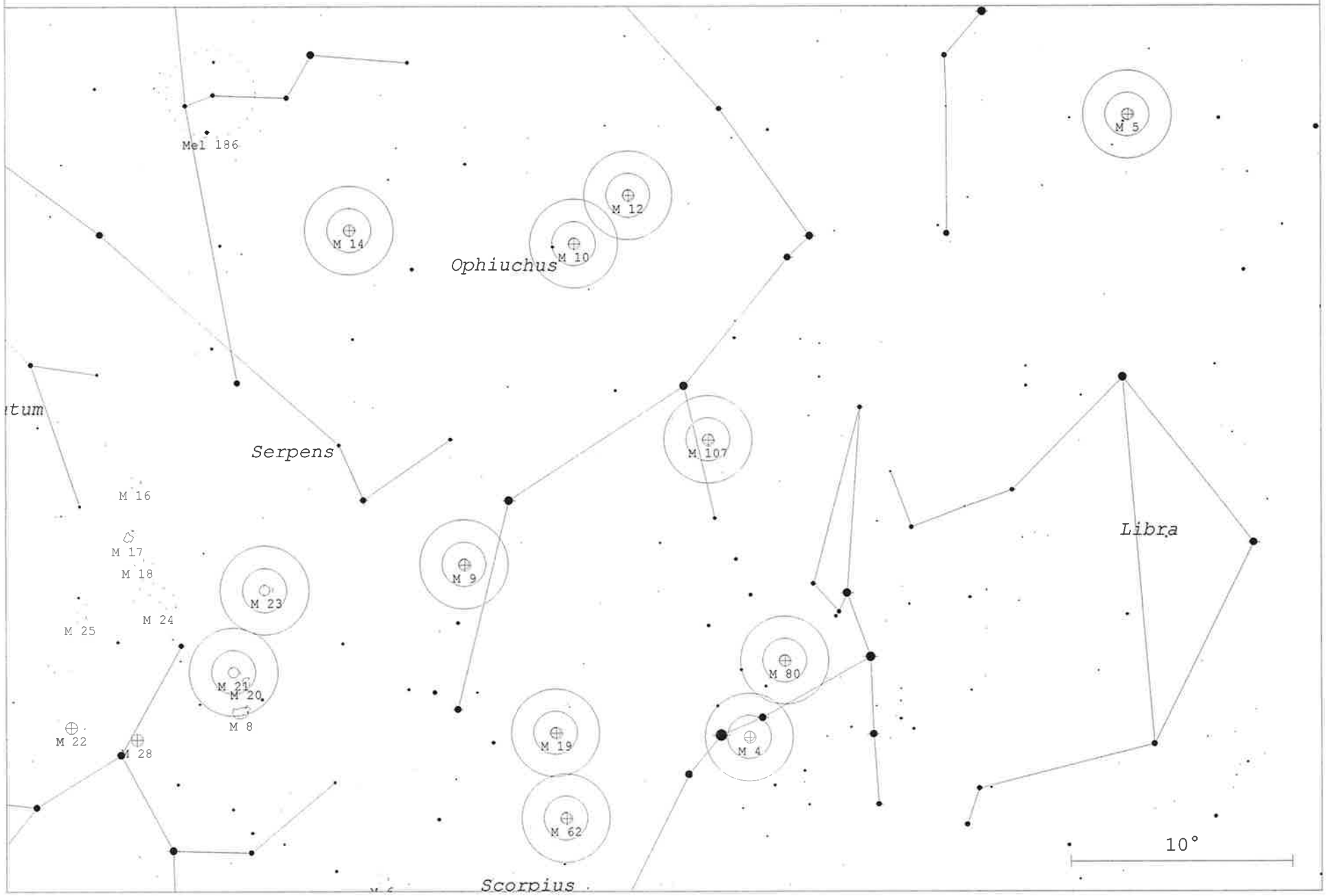
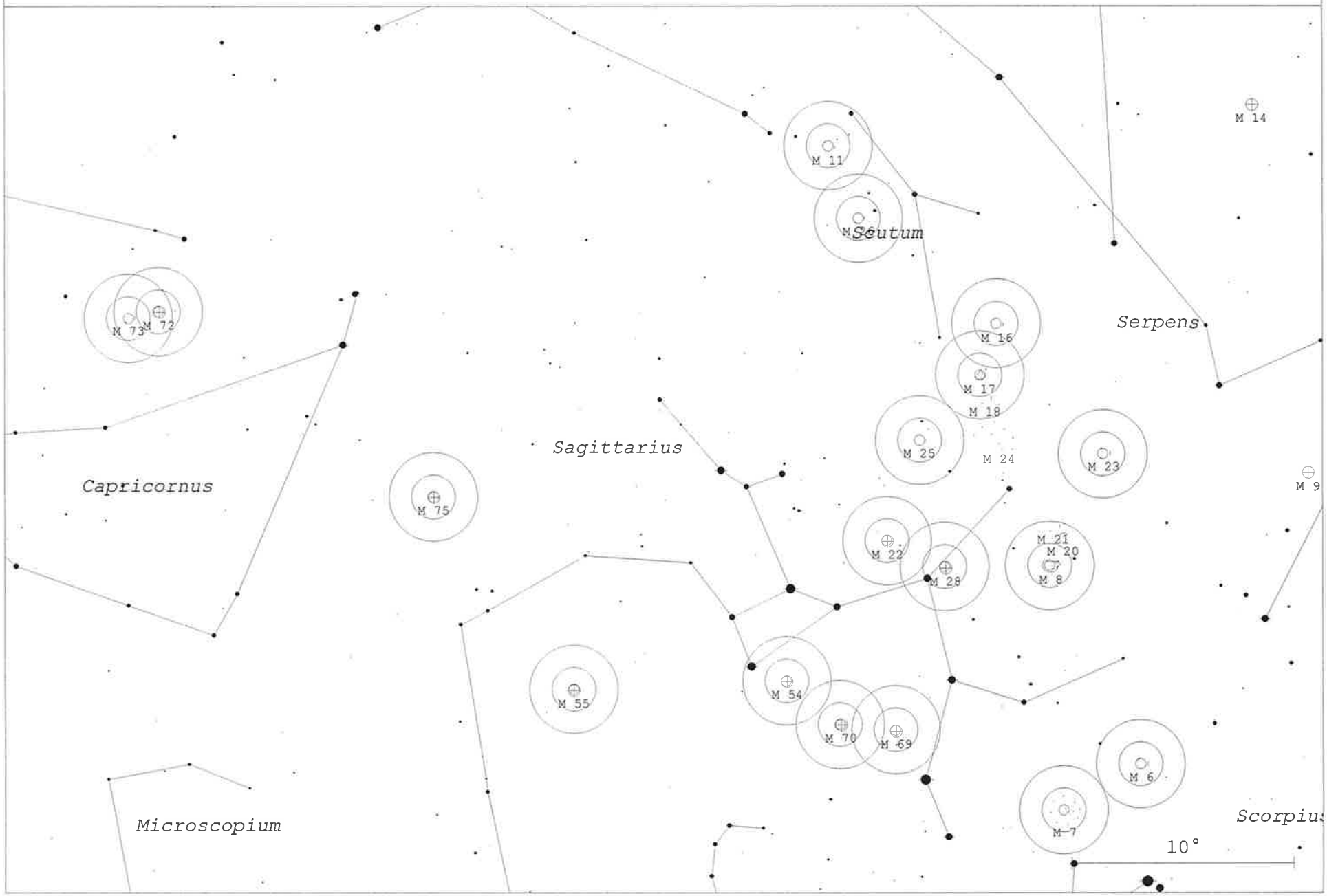
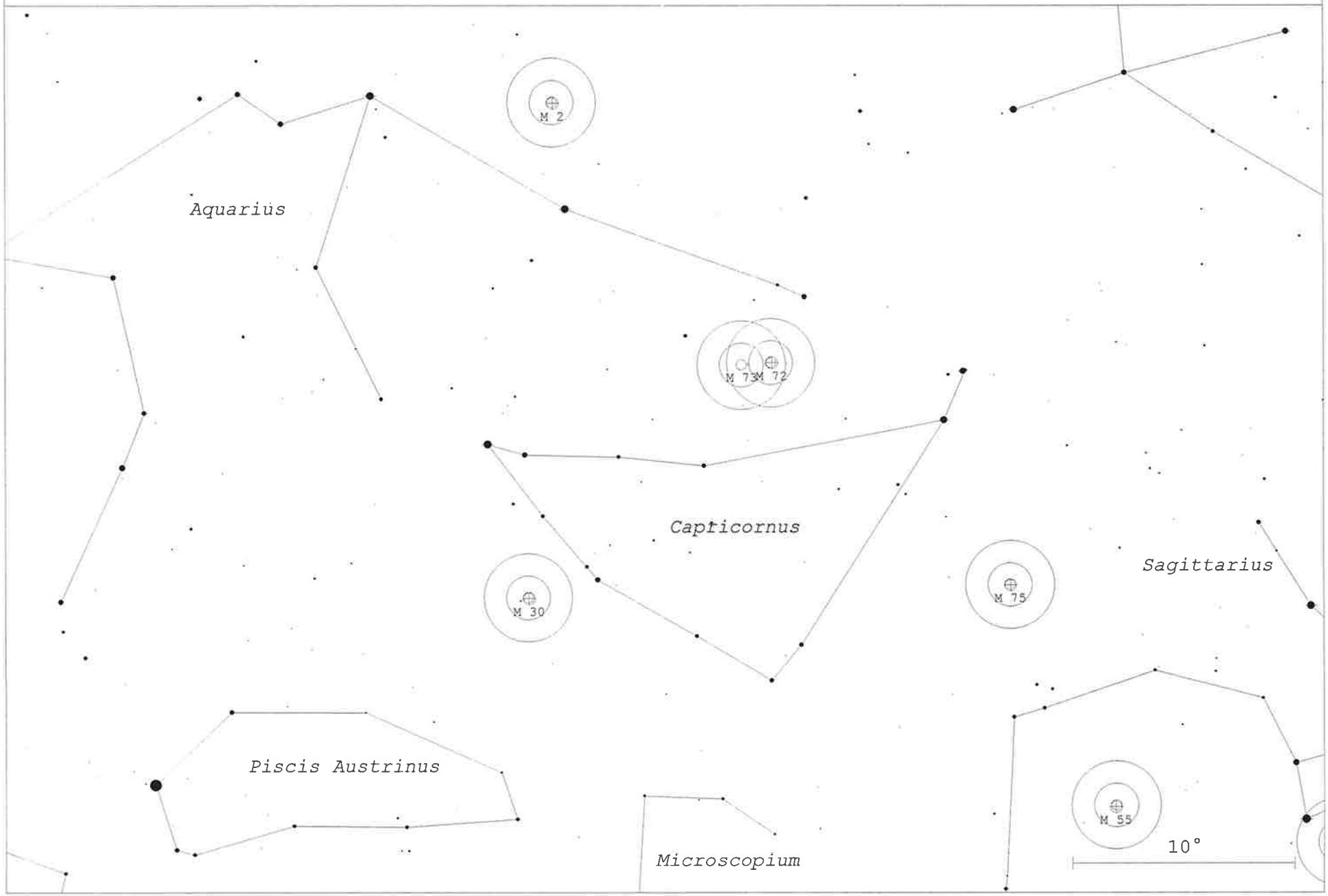


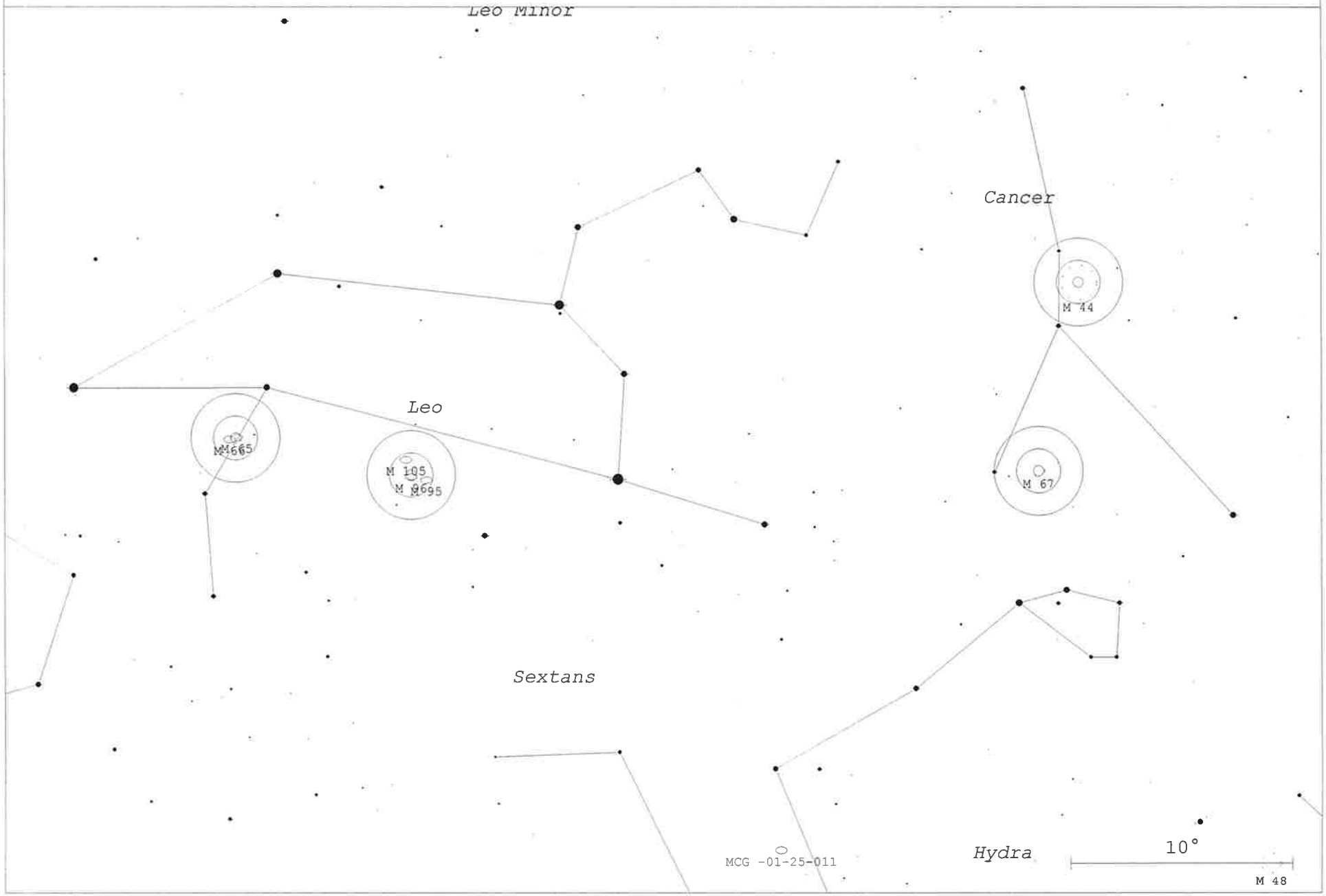
Chart 10] M6, M7, M8, M11, M16, M17, M18, M21, M22, M24, M25, M26, M28, M54, M55, M69, M70, M72, M73, M75



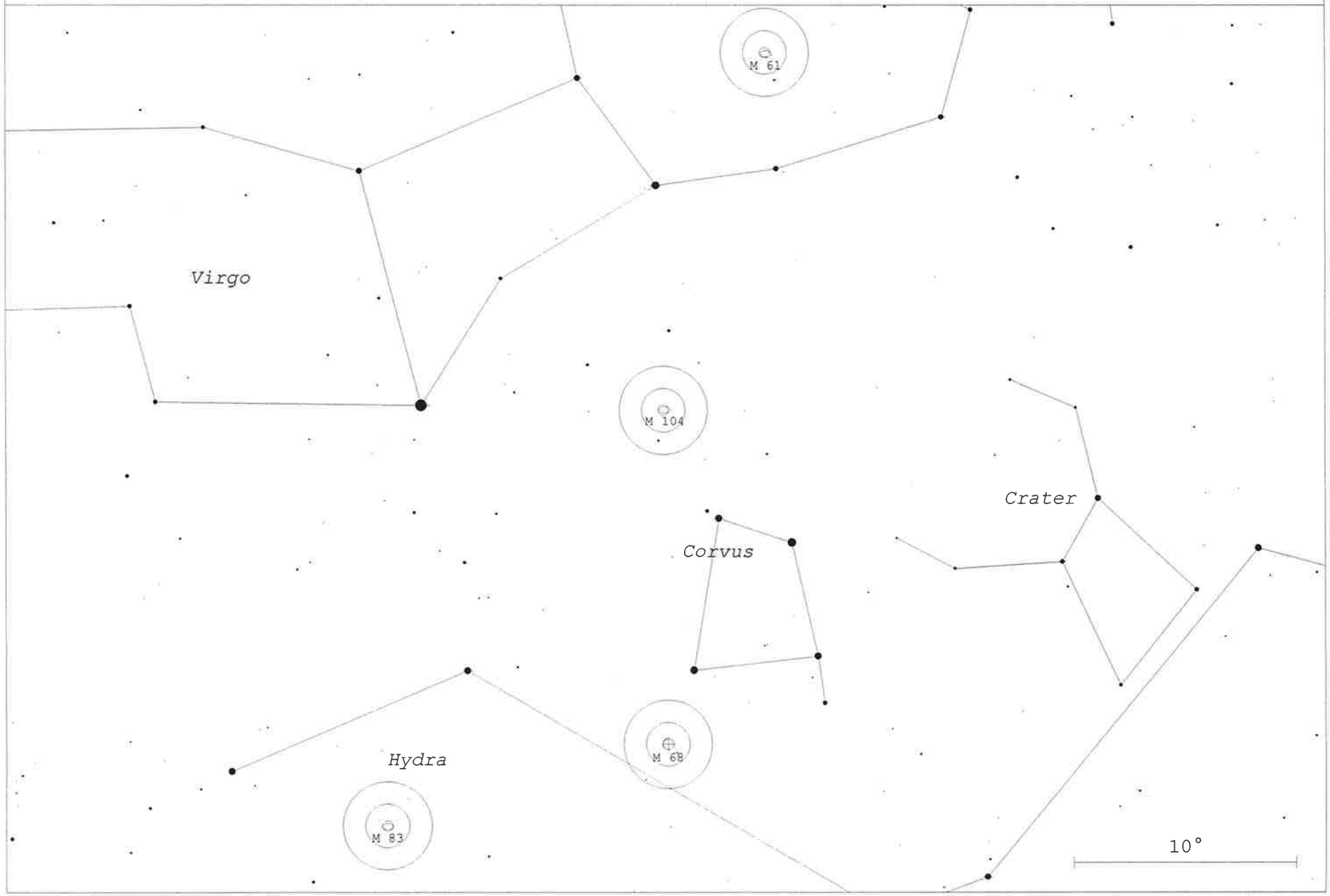
[Chart 11] M2, M30, M55, M72, M73, M75



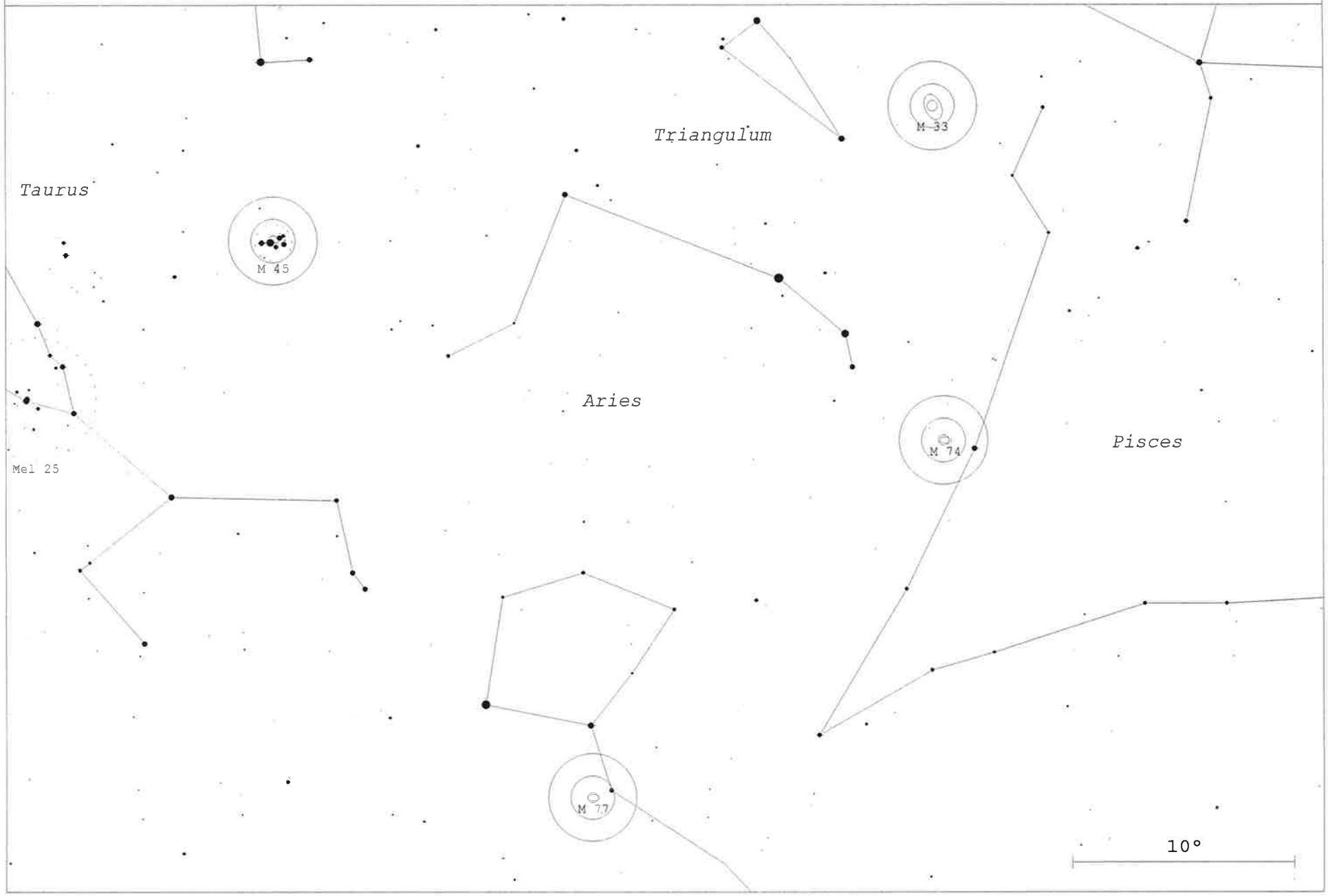
[Chart 12] M44, M67, M66, M96



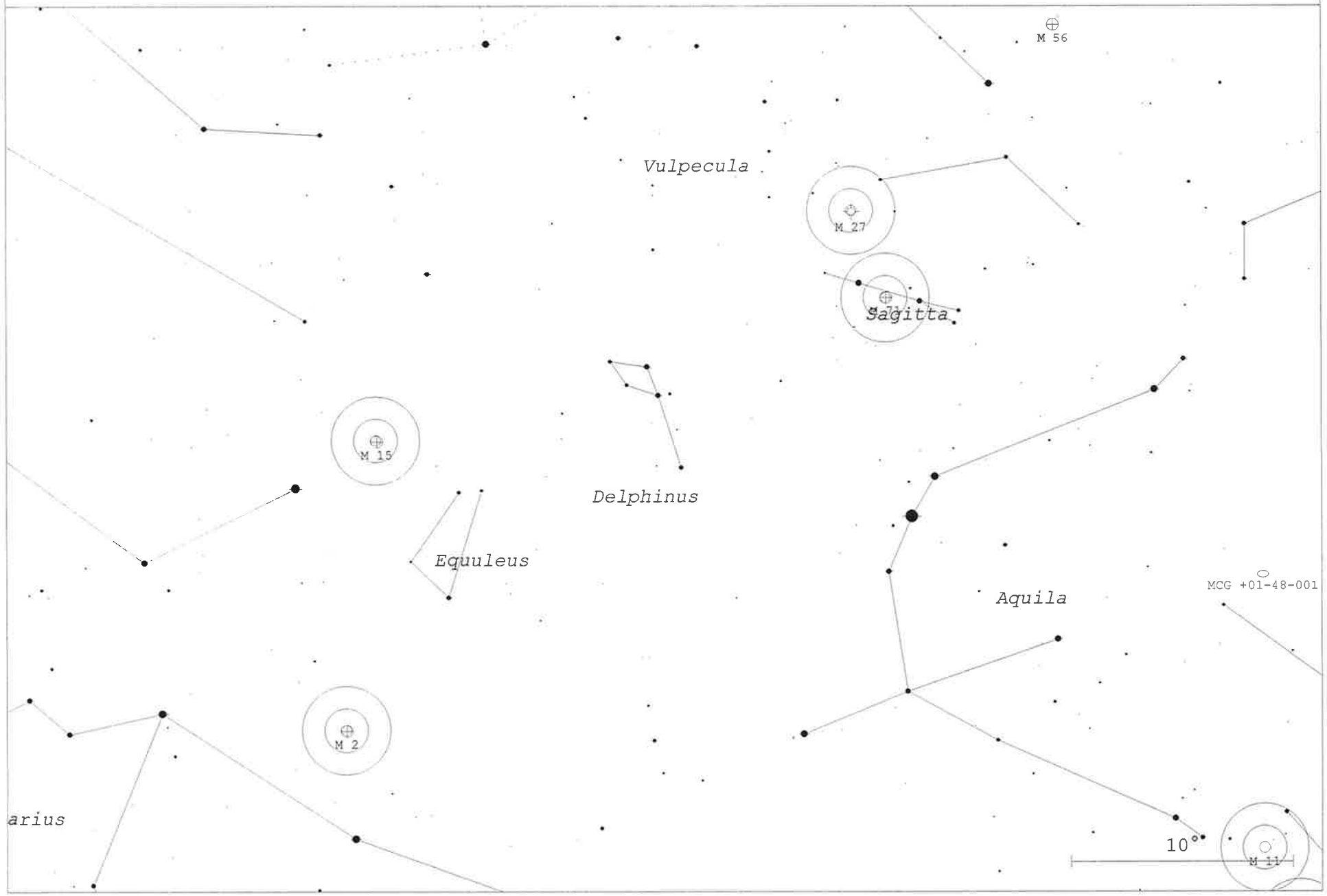
[Chart 13] M61, M68, M83, M104

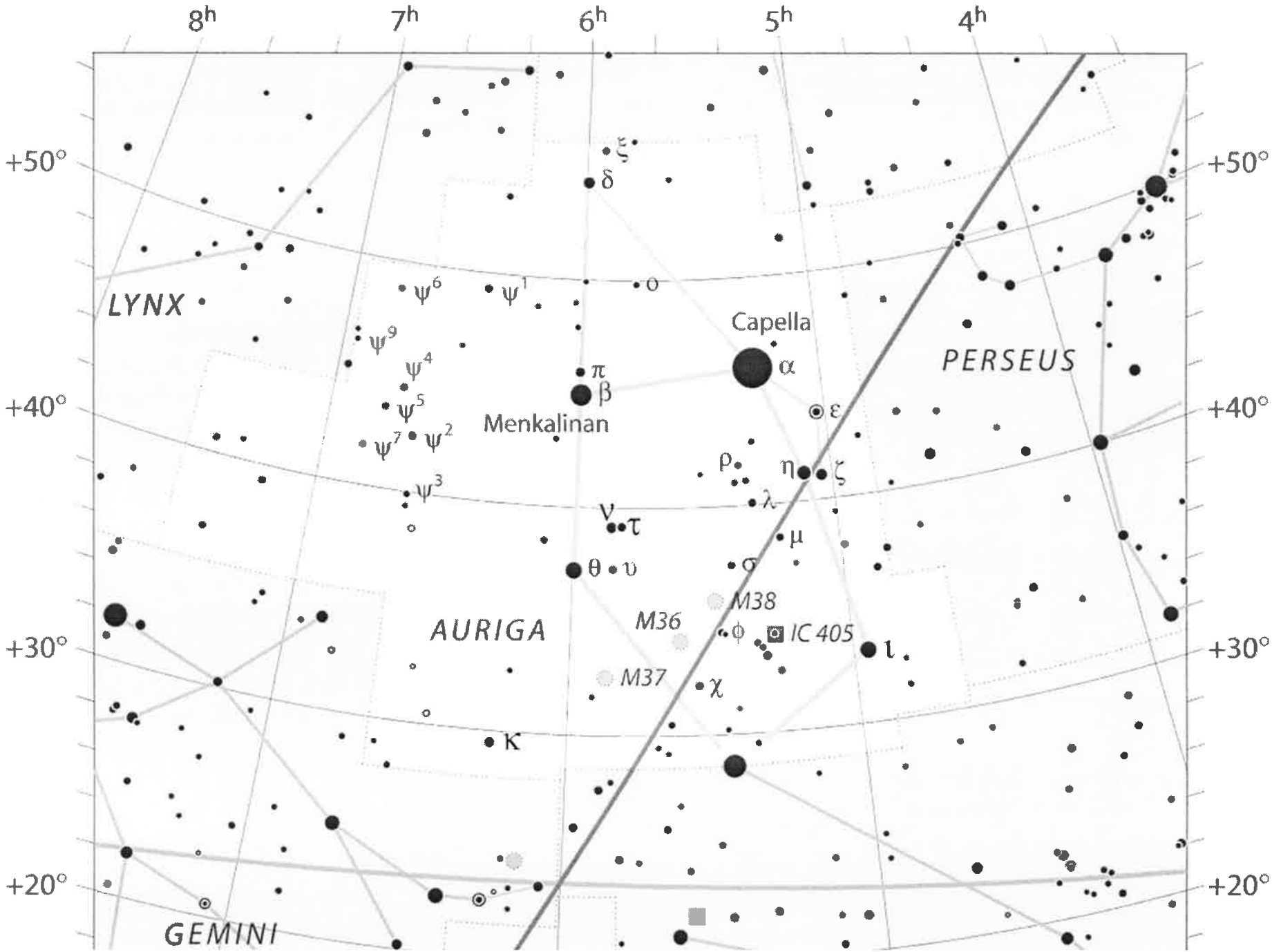


[Chart 14] M33, M45, M74, M77



[Chart 15] M2, M15, M27, M71

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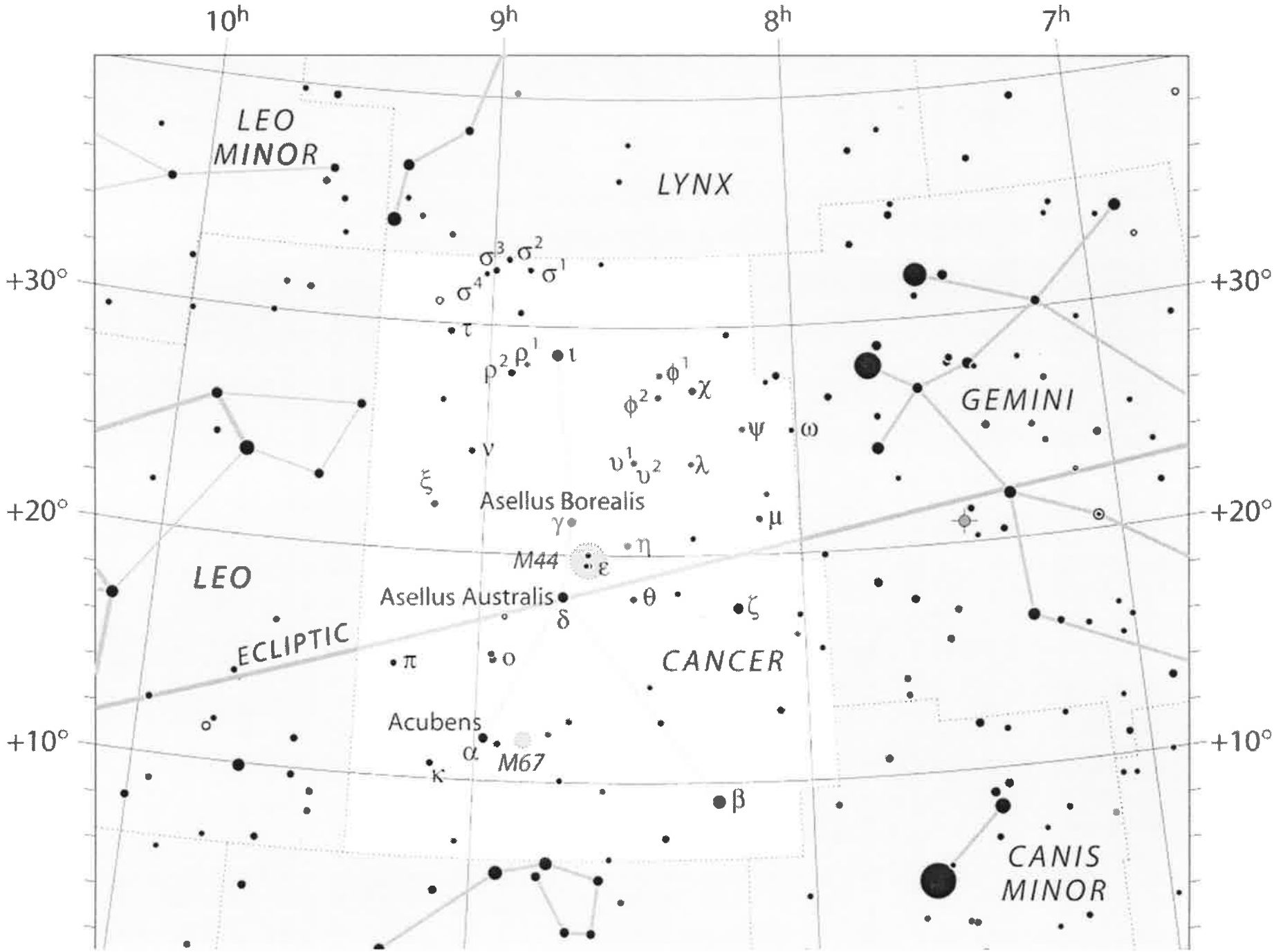
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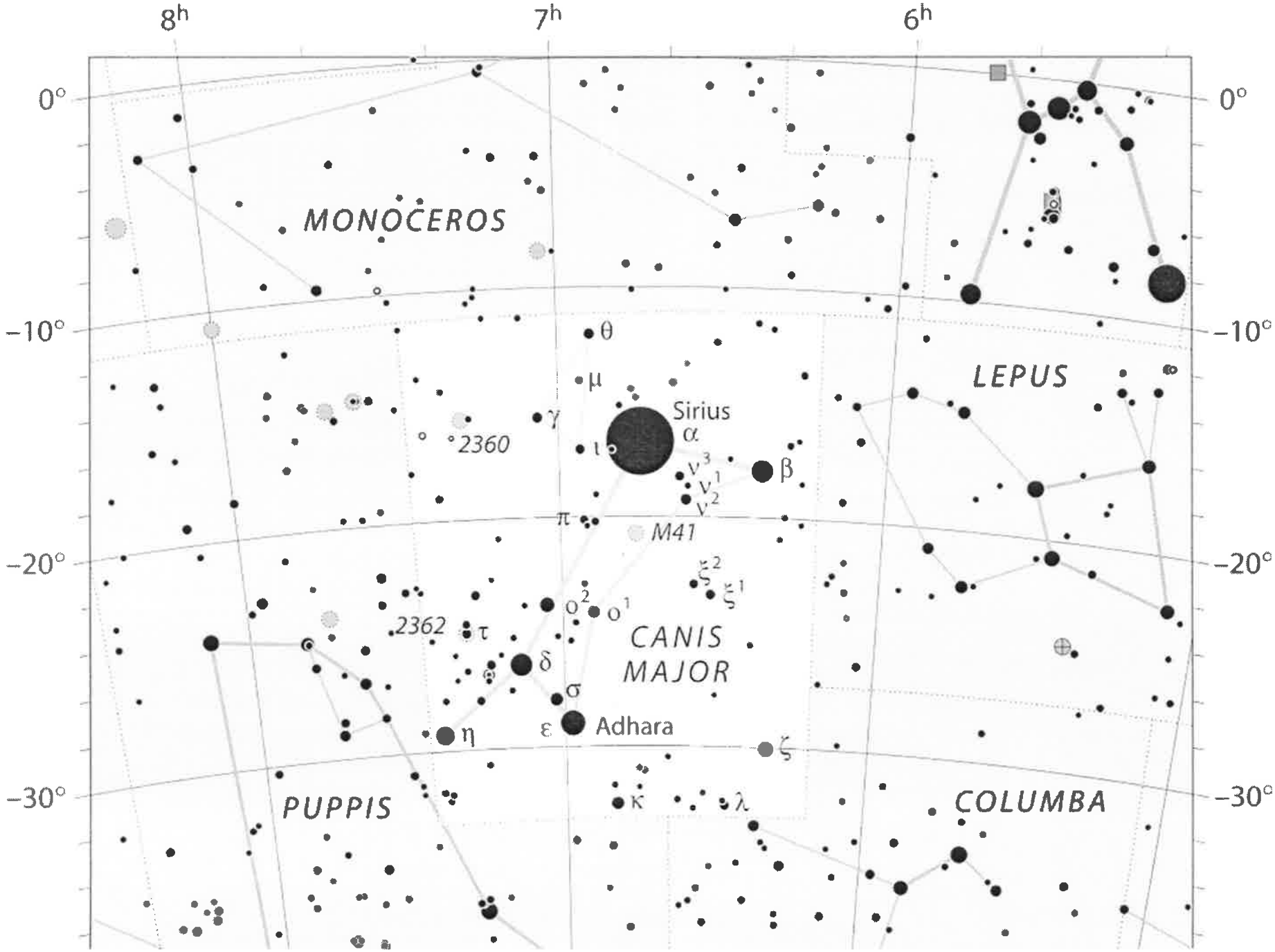
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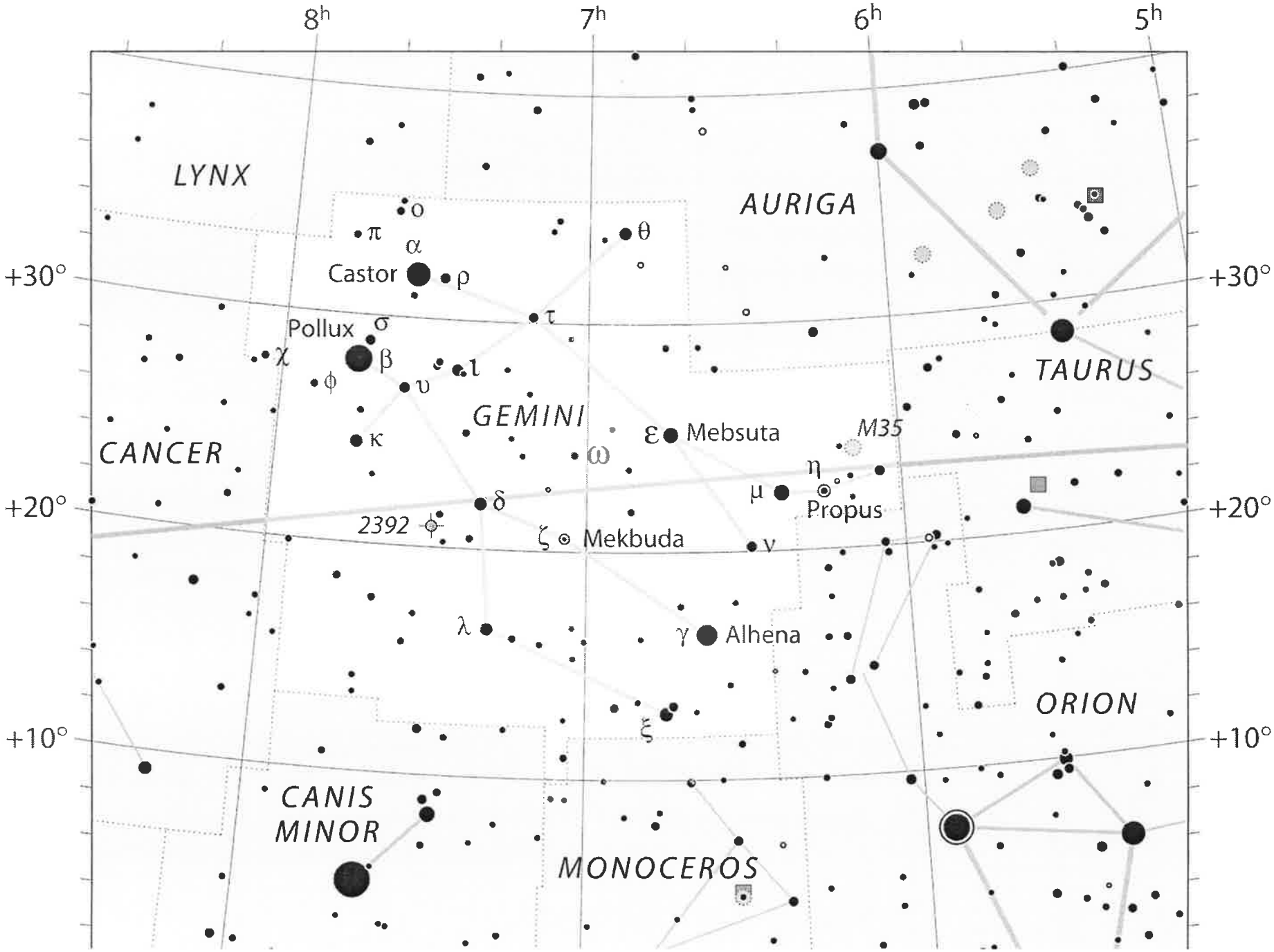
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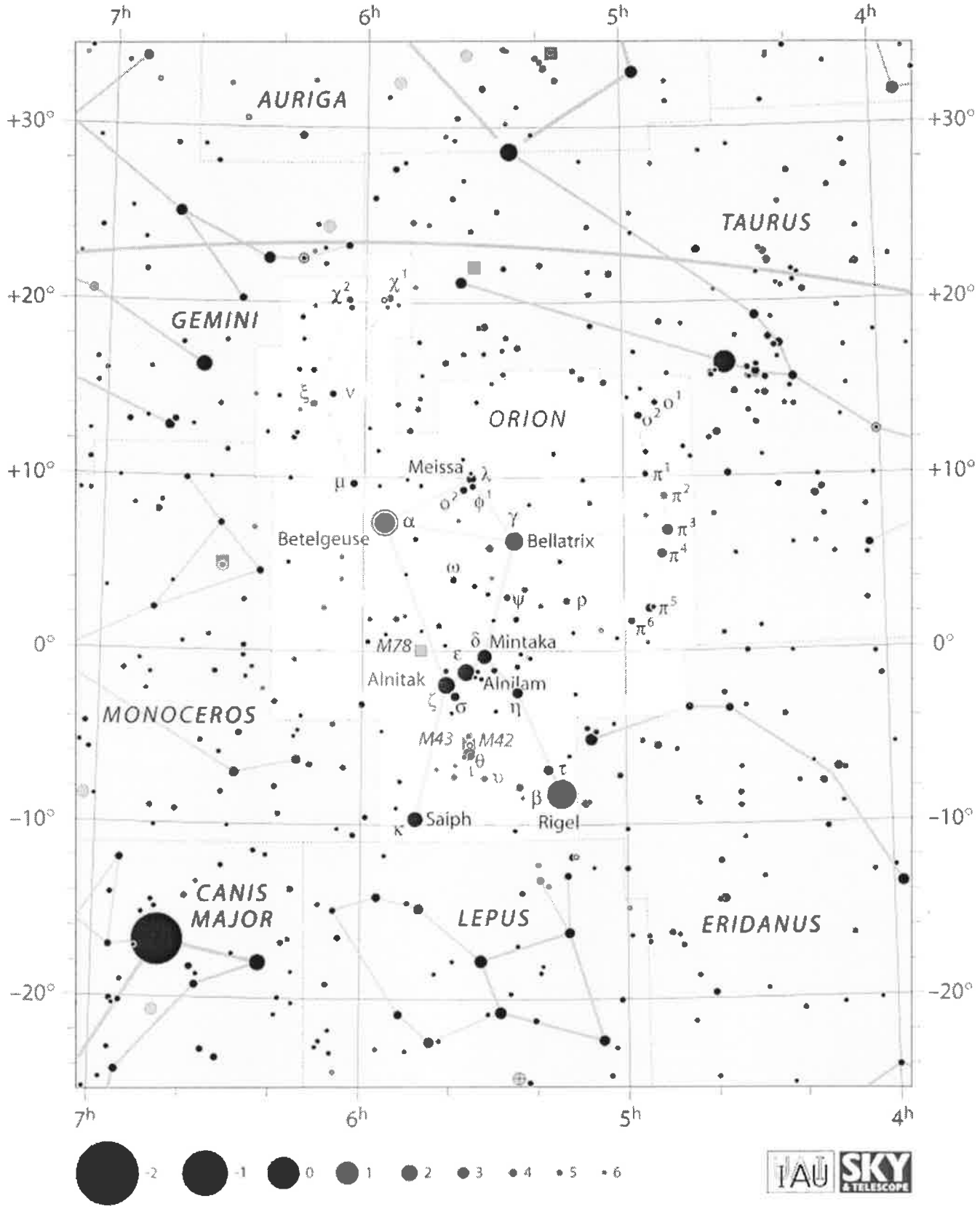
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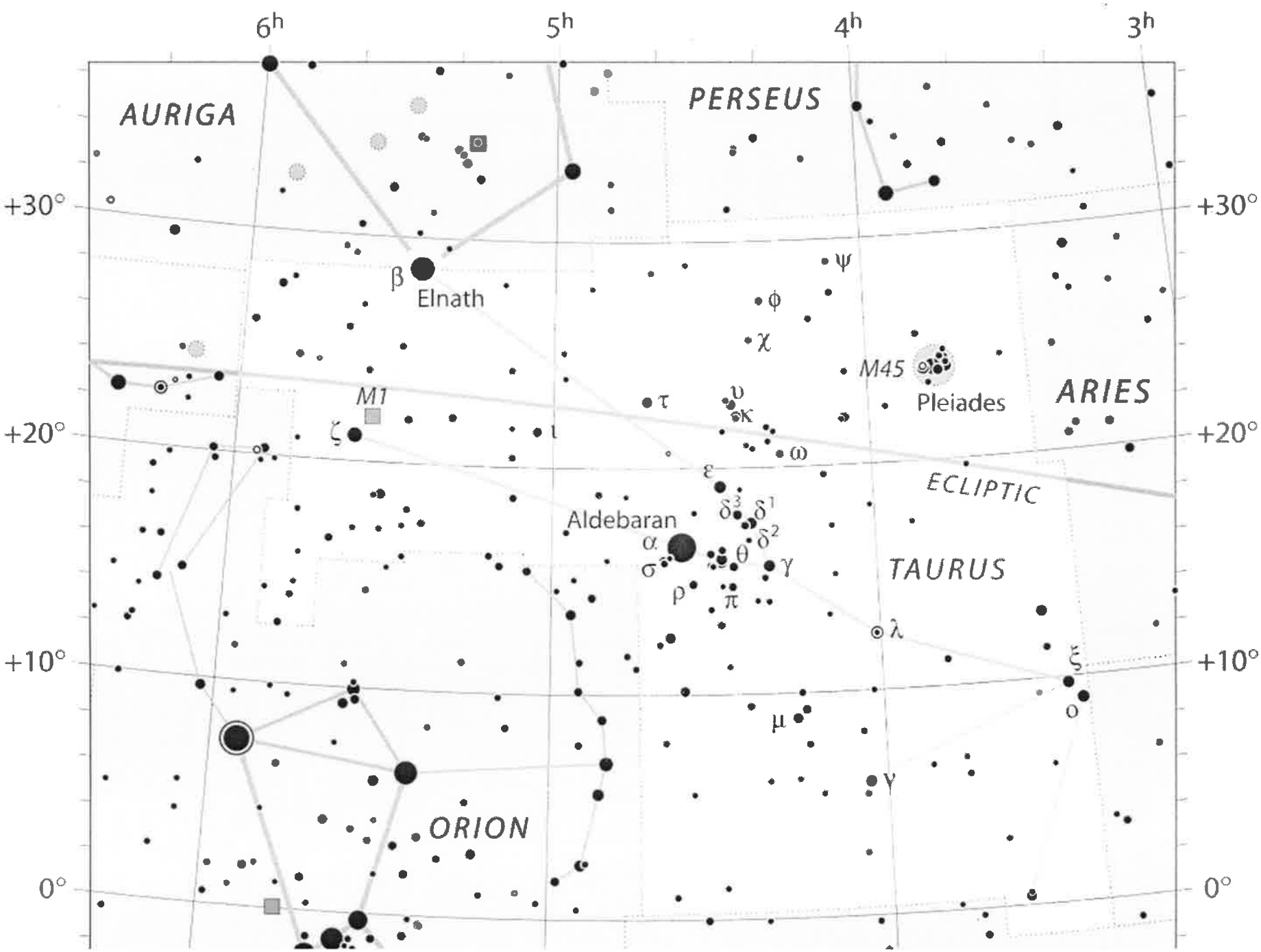
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