

**ASTRONOMY CLUB**



**OF TULSA**

# Messier Marathon Charts

Prepared by Tom McDonough

<http://astrotulsa.com/pub/Messier/>



# Messier Marathon

Observer: \_\_\_\_\_

The Evening Objects 8:30PM - 9:30PM

Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
1	1	2	M77	1068	Cet	SG	02 42.7	-00 01	8.9			
2	1	1	M74	628	Psc	SG	01 36.7	+15 47	9.4			
3	1	4	M33	598	Tri	SG	01 33.9	+30 39	5.7			
4	2	3	M31	224	And	SG	00 42.7	+41 16	3.4			
5	2	3	M32	221	And	EG	00 42.7	+40 52	8.1			
6	2	3	M110	205	And	EG	00 40.4	+41 41	8.5			
7	2	10	M52	7654	Cas	OC	23 24.2	+61 35	7.3			
8	2	10	M103	581	Cas	OC	01 33.2	+60 42	7.4			
9	2	5	M76	650	Per	PN	01 42.4	+51 34	10.1			
10	2	5	M34	1039	Per	OC	02 42.0	+42 47	5.5			
11	3	11	M45	-	Tau	OC	03 47.0	+24 07	1.6			
12	3	6	M79	1904	Lep	GC	05 24.5	-24 33	7.7			
13	3	7	M42	1976	Ori	DN	05 35.4	-05 27	4.0			
14	3	7	M43	1982	Ori	DN	05 35.6	-05 16	9.0			

14 Objects

Objects Observed: \_\_\_\_\_

Minutes per object: 4.5

# Messier Marathon

Observer: \_\_\_\_\_

The Winter Objects 9:30PM - 10:30PM

Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
15	3	7	M78	2068	Ori	DN	05 46.7	+00 03	8.3			
16	4	11	M1	1952	Tau	SR	05 34.5	+22 01	8.4			
17	4	13	M35	2168	Gem	OC	06 08.9	+24 20	5.3			
18	4	12	M37	2099	Aur	OC	05 52.4	+32 33	6.2			
19	4	12	M36	1960	Aur	OC	05 36.1	+34 08	6.3			
20	4	12	M38	1912	Aur	OC	05 28.4	+35 50	7.4			
21	5	9	M41	2287	CMa	OC	06 46.0	-20 44	4.6			
22	5	9	M93	2447	Pup	OC	07 44.6	-23 52	6.0			
23	5	8	M47	2422	Pup	OC	07 36.6	-14 30	5.2			
24	5	8	M46	2437	Pup	OC	07 41.8	-14 49	6.0			
25	5	8	M50	2323	Mon	OC	07 03.2	-08 20	6.3			
26	5	14	M48	2548	Hya	OC	08 13.8	-05 48	5.5			
27	6	15	M44	2632	Cnc	OC	08 40.1	+19 59	3.7			
28	6	15	M67	2682	Cnc	OC	08 50.4	+11 49	6.1			

14 Objects

Objects Observed: \_\_\_\_\_

Minutes per object: 4.6

# Messier Marathon

Observer: \_\_\_\_\_

The Spring Objects 10:30PM - 12:00AM

Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
29	6a	17	M95	3351	Leo	SG	10 44.0	+11 42	9.7			
30	6a	17	M96	3368	Leo	SG	10 46.8	+11 49	9.2			
31	6a	17	M105	3379	Leo	EG	10 47.8	+12 35	9.3			
32	6a	16	M65	3623	Leo	SG	11 18.9	+13 05	9.3			
33	6a	16	M66	3627	Leo	SG	11 20.2	+12 59	8.9			
34	7	22	M81	3031	UMa	SG	09 55.6	+69 04	6.9			
35	7	22	M82	3034	UMa	IG	09 55.8	+69 41	8.4			
36	7	22	M97	3587	UMa	PN	11 14.8	+55 01	9.9			
37	7	23	M108	3556	UMa	SG	11 11.5	+55 40	10.0			
38	7	23	M109	3992	UMa	SG	11 57.6	+53 23	9.8			
39	7	21	M40	Win4	UMa	DS	12 22.4	+58 05	8.4			
40	7	21	M106	4258	CVn	SG	12 19.0	+47 18	8.4			
41	7	25	M94	4736	CVn	SG	12 50.9	+41 07	8.2			
42	7	25	M63	5055	CVn	SG	13 15.8	+42 02	8.6			
43	7	20	M51	5194	CVn	SG	13 29.9	+47 12	8.4			
44	7	20	M101	5457	UMa	SG	14 03.2	+54 21	7.9			
45	7	24	M102	5866	Dra	LG	15 06.5	+55 46	9.9			
46	8	18	M53	5024	Com	GC	13 12.9	+18 10	7.6			
47	8	19	M64	4826	Com	SG	12 56.7	+21 41	8.5			
48	8	18	M3	5272	CVn	GC	13 42.2	+28 23	6.2			

20 Objects

Objects Observed: \_\_\_\_\_

Minutes per object: 4.5

# Messier Marathon

Observer: \_\_\_\_\_

The Virgo Cluster 12:00AM - 1:30AM

Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
49	8a	28d	M98	4192	Com	SG	12 13.8	+14 54	10.1			
50	8a	28d	M99	4254	Com	SG	12 18.8	+14 25	9.9			
51	8a	28d	M100	4321	Com	SG	12 22.9	+15 49	9.3			
52	8a	19	M85	4382	Com	LG	12 25.4	+18 11	9.1			
53	8a	28b	M84	4374	Vir	LG	12 25.1	+12 53	9.1			
54	8a	28b	M86	4406	Vir	LG	12 26.2	+12 57	8.9			
55	8a	28b	M87	4486	Vir	EG	12 30.8	+12 24	8.6			
56	8a	28c	M89	4552	Vir	EG	12 35.7	+12 33	9.8			
57	8a	28c	M90	4569	Vir	SG	12 36.8	+13 10	9.5			
58	8a	28b	M88	4501	Com	SG	12 32.0	+14 25	9.6			
59	8a	28c	M91	4548	Com	SG	12 35.4	+14 30	10.2			
60	8a	28a	M58	4579	Vir	SG	12 37.7	+11 49	9.7			
61	8a	28a	M59	4621	Vir	EG	12 42.0	+11 39	9.6			
62	8a	28a	M60	4649	Vir	EG	12 43.7	+11 33	8.8			
63	8a	28	M49	4472	Vir	EG	12 29.8	+08 00	8.4			
64	8a	27	M61	4303	Vir	SG	12 21.9	+04 28	9.7			
65	9	27	M104	4594	Vir	SG	12 40.0	-11 37	8.0			
66	9	26	M68	4590	Hya	GC	12 39.5	-26 45	7.8			
67	9	26	M83	5236	Hya	SG	13 37.0	-29 52	7.6			

19 Objects

Objects Observed: \_\_\_\_\_

Minutes per object: 4.75

# Messier Marathon

Observer: \_\_\_\_\_

## The Summer Objects I 3:00AM - 4:00AM

Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
68	10	33	M5	5904	Ser	GC	15 18.6	+02 05	5.6			
69	10	29	M13	6205	Her	GC	16 41.7	+36 28	5.8			
70	10	29	M92	6341	Her	GC	17 17.1	+43 08	6.4			
71	11	30	M57	6720	Lyr	PN	18 53.6	+33 02	8.8			
72	11	30	M56	6779	Lyr	GC	19 16.6	+30 11	8.3			
73	11	32	M29	6913	Cyg	OC	20 23.9	+38 32	7.1			
74	11	32	M39	7092	Cyg	OC	21 32.2	+48 26	4.6			
75	11	31	M27	6853	Vul	PN	19 59.6	+22 43	7.4			
76	11	31	M71	6838	Sge	GC	19 53.8	+18 47	8.2			
77	12	34	M107	6171	Oph	GC	16 32.5	-13 03	7.9			
78	12	34	M12	6218	Oph	GC	16 47.2	-01 57	6.7			
79	12	34	M10	6254	Oph	GC	16 57.1	-04 06	6.6			
80	12	35	M14	6402	Oph	GC	17 37.6	-03 15	7.6			
81	12	35	M9	6333	Oph	GC	17 19.2	-18 31	7.7			
82	12	39	M4	6121	Sco	GC	16 23.6	-26 32	5.6			
83	12	39	M80	6093	Sco	GC	16 17.0	-22 59	7.3			
84	12	38	M19	6273	Oph	GC	17 02.6	-26 16	6.8			
85	12	38	M62	6266	Oph	GC	17 01.2	-30 07	6.5			
86	13	38	M6	6405	Sco	OC	17 40.1	-32 13	5.3			
87	13	38	M7	6475	Sco	OC	17 53.9	-34 49	4.1			

20 Objects

Objects Observed: \_\_\_\_\_

Minutes per object: 3.0

# Messier Marathon

Observer: \_\_\_\_\_

## The Summer Objects **II** 4:00AM - 5:00AM

Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
88	12	36	M11	6705	Sct	OC	18 51.1	-06 16	6.3			
89	12	36	M26	6694	Sct	OC	18 45.2	-09 24	8.0			
90	13	37	M16	6611	Ser	OC	18 18.8	-13 47	6.4			
91	13	37	M17	6618	Sgr	DN	18 20.8	-16 11	7.0			
92	13	37	M18	6613	Sgr	OC	18 19.9	-17 08	7.5			
93	13	41	M24	6603	Sgr	SC	18 16.9	-18 29	4.6			
94	13	41	M25	I4725	Sgr	OC	18 31.6	-19 15	6.5			
95	13	41	M23	6494	Sgr	OC	17 56.8	-19 01	6.9			
96	13	40	M21	6531	Sgr	OC	18 04.6	-22 30	6.5			
97	13	40	M20	6514	Sgr	DN	18 02.6	-23 02	9.0			
98	13	40	M8	6523	Sgr	DN	18 03.8	-24 23	6.0			
99	13	42	M28	6626	Sgr	GC	18 24.5	-24 52	6.8			
100	13	42	M22	6656	Sgr	GC	18 36.4	-23 54	5.1			
101	13	43	M69	6637	Sgr	GC	18 31.4	-32 21	7.6			
102	13	43	M70	6681	Sgr	GC	18 43.2	-32 18	7.9			
103	13	43	M54	6715	Sgr	GC	18 55.1	-30 29	7.6			
104	14	44	M55	6809	Sgr	GC	19 40.0	-30 58	6.3			
105	14	45	M75	6864	Sgr	GC	20 06.1	-21 55	8.5			

18 Objects

Objects Observed: \_\_\_\_\_

Minutes per object: 3.3

# Messier Marathon

Observer: \_\_\_\_\_

## The Morning Objects 5:30AM - 7:00AM

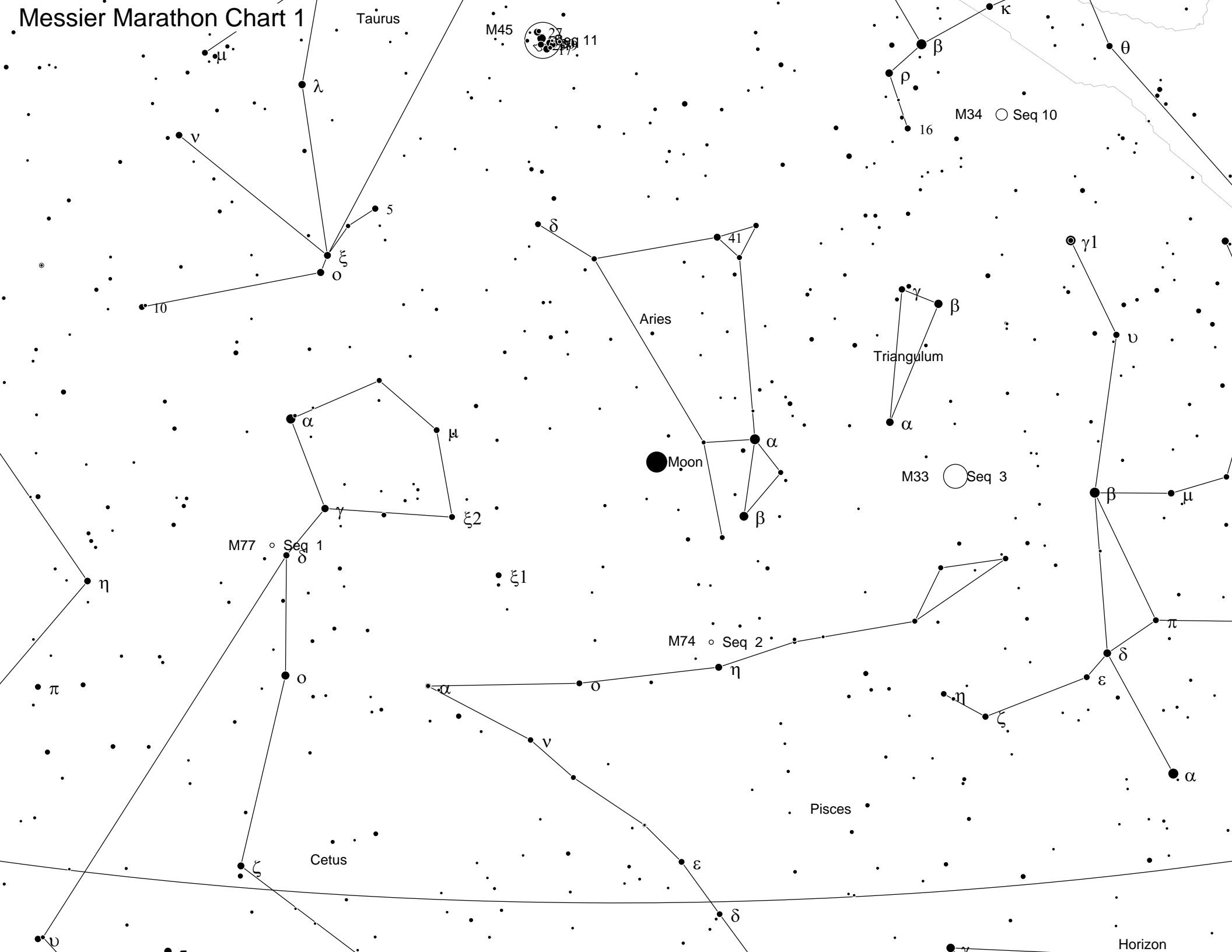
Seq	Cht	PMC	M#	NGC#	Con	Type	RA	Dec	Mag	Date	Time	Notes
106	14	46	M15	7078	Peg	GC	21 30.0	+12 10	6.2			
107	14	47	M2	7089	Aqr	GC	21 33.5	-00 49	6.5			
108	14	47	M72	6981	Aqr	GC	20 53.5	-12 32	9.3			
109	14	47	M73	6994	Aqr	AM	20 58.9	-12 38	9.0			
110	14	48	M30	7099	Cap	GC	21 40.4	-23 11	7.2			

5 Objects

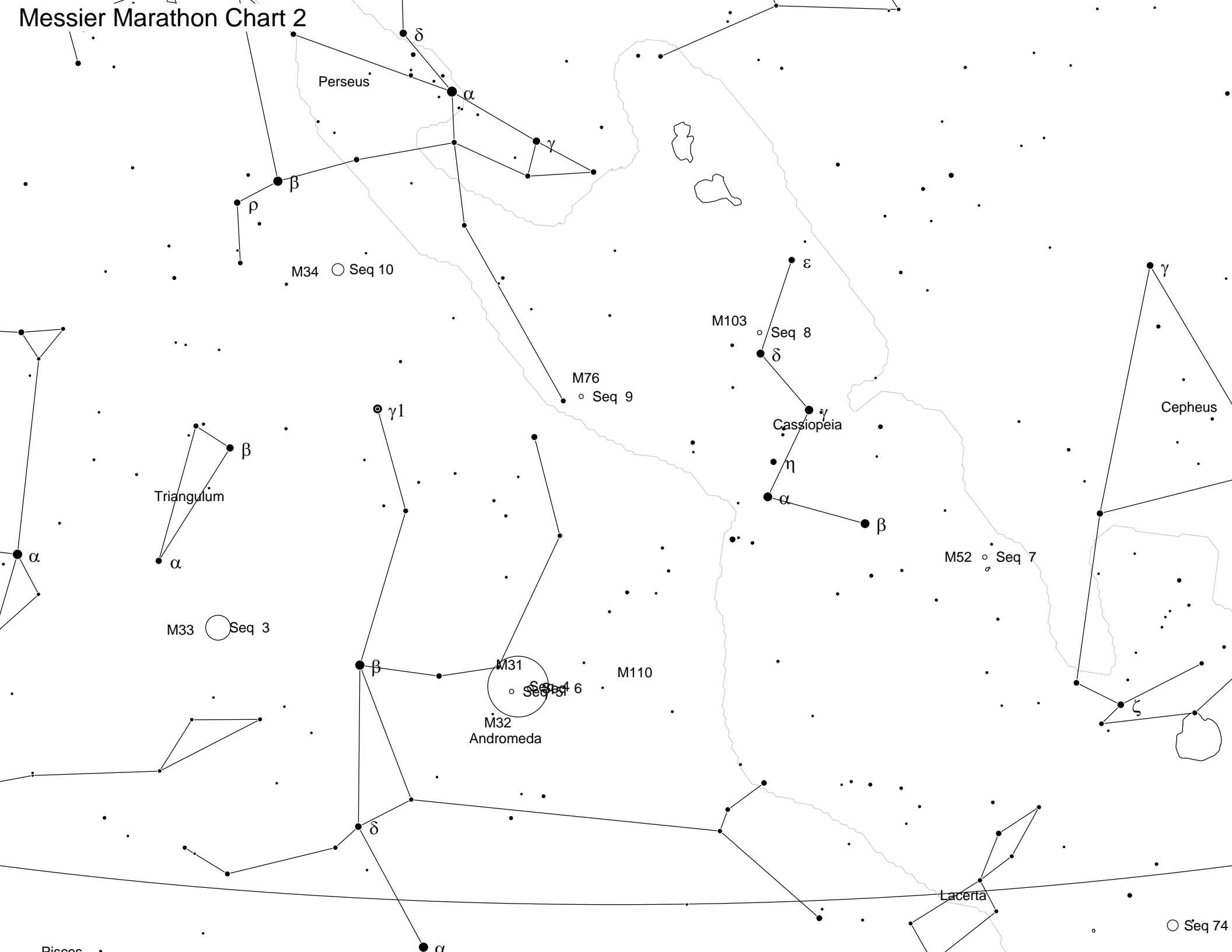
Objects Observed: \_\_\_\_\_

Minutes per object: 18.0

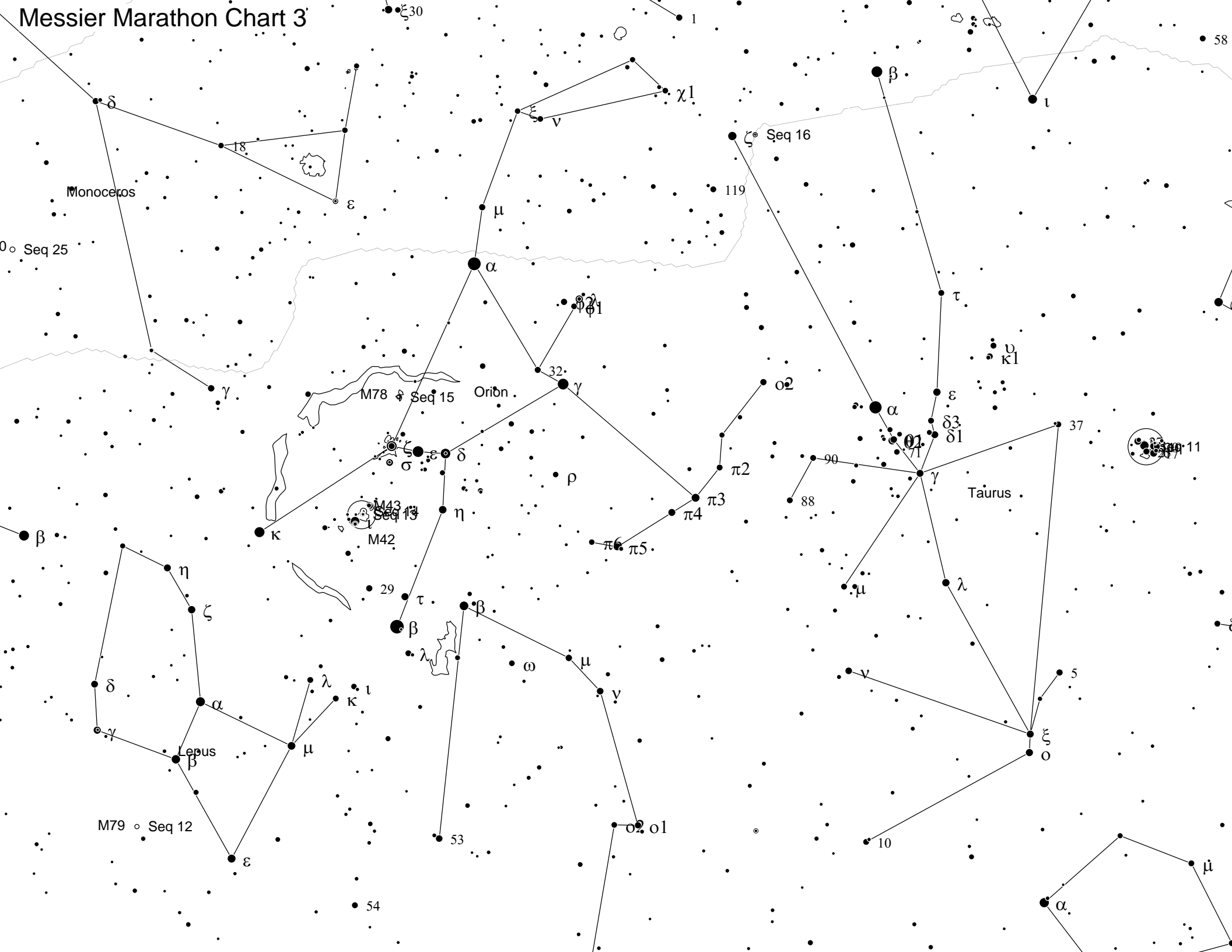
# Messier Marathon Chart 1



# Messier Marathon Chart 2



# Messier Marathon Chart 3



Monoceros

0 Seq 25

M78 Seq 15

Orion

Taurus

Lepus

M79 Seq 12

M43 Seq 13

M42

Seq 16

M11

54

119

88

90

5

10

53

o2 o1

58

119

M11

54

119

88

90

5

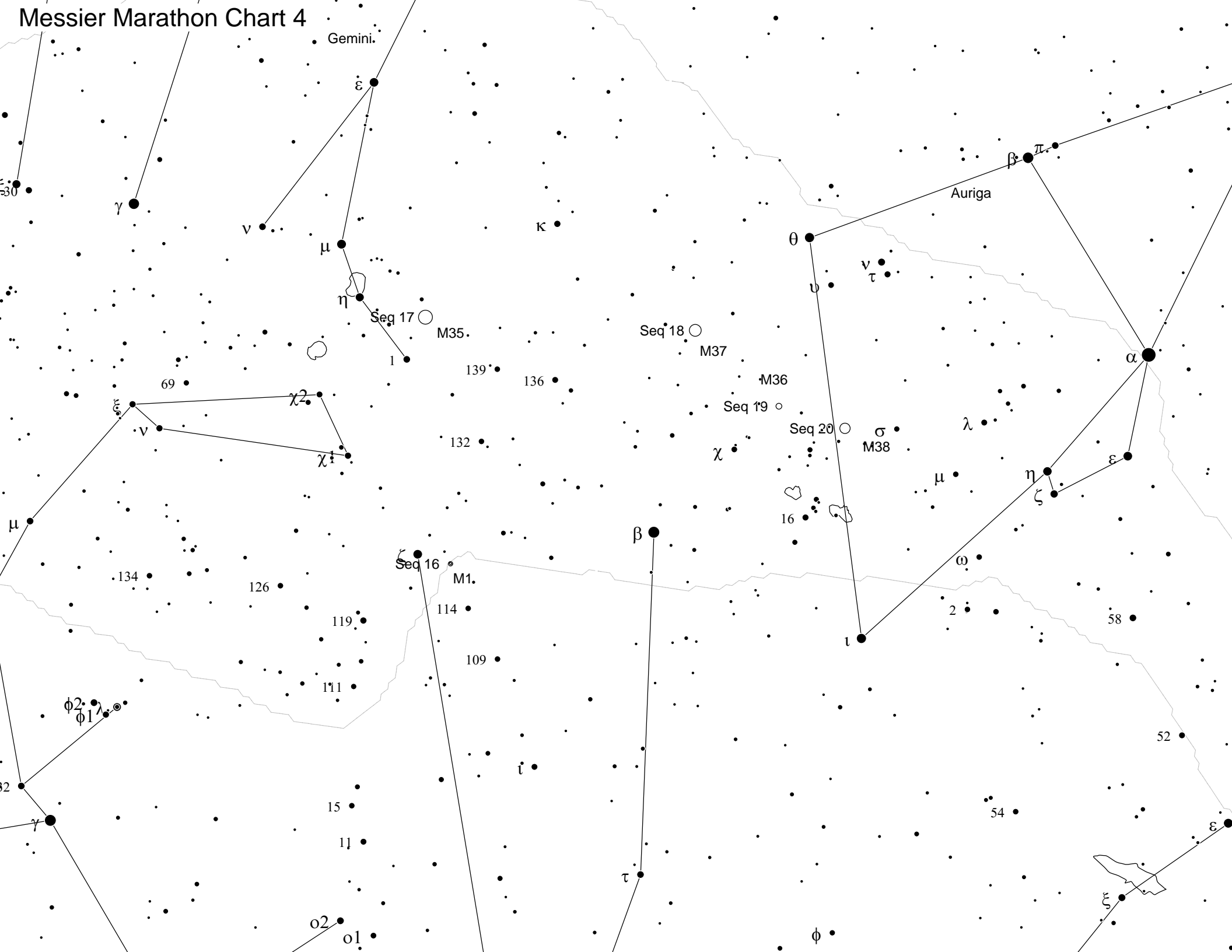
10

53

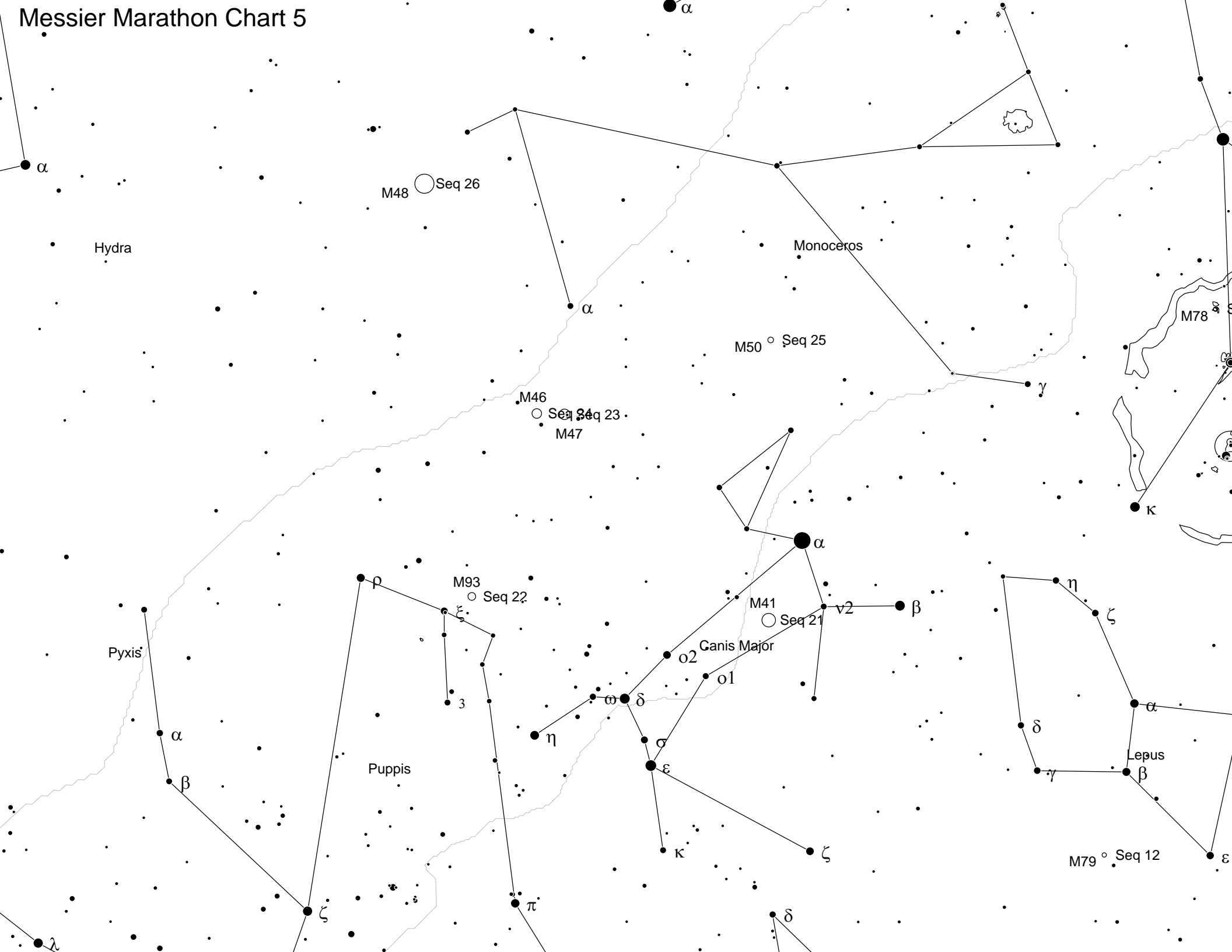
o2 o1

58

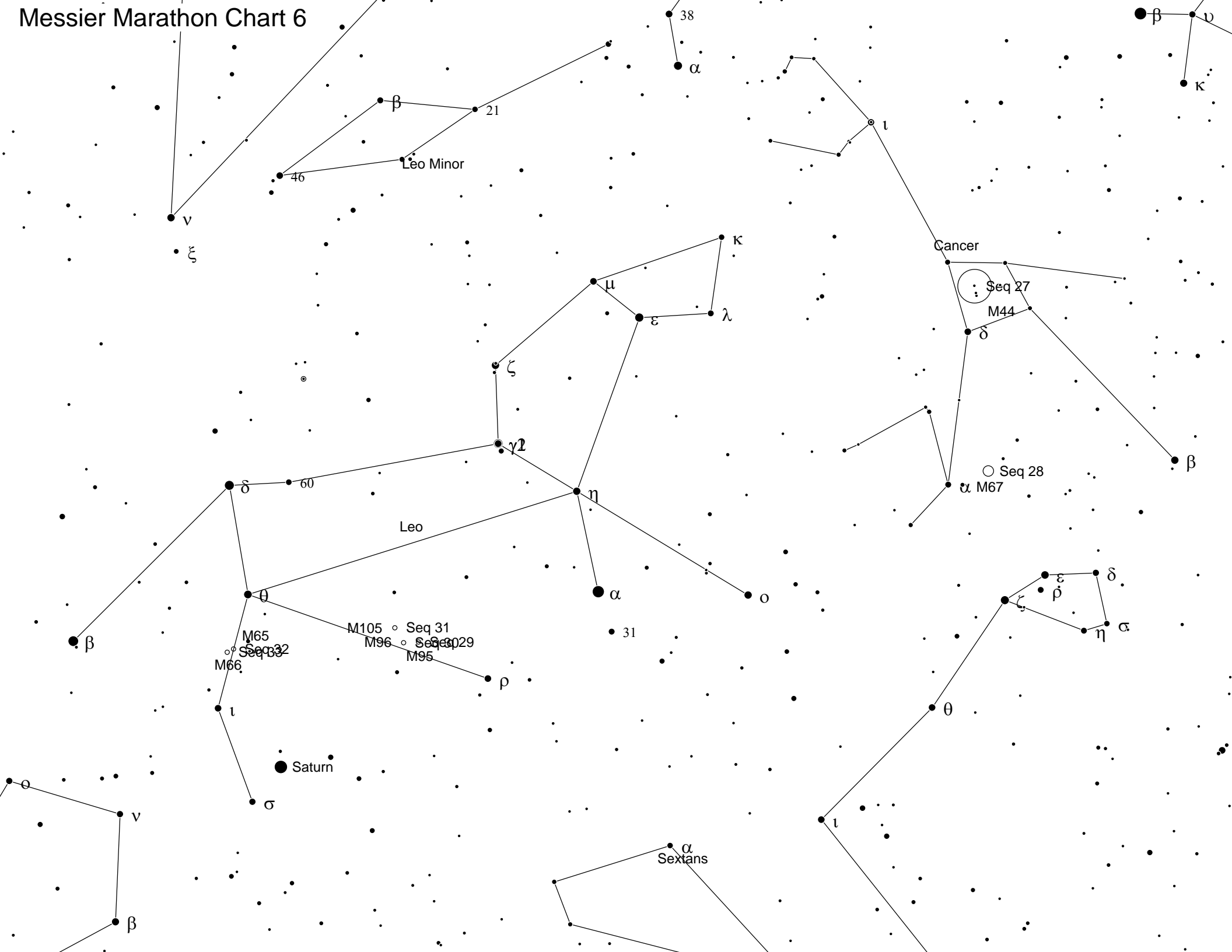
# Messier Marathon Chart 4



# Messier Marathon Chart 5



# Messier Marathon Chart 6



# Messier Marathon Chart 6a

