

A deep space photograph showing a vast field of stars of various colors (white, blue, orange) against a black background. In the center, there is a prominent edge-on galaxy with a bright, glowing core and a visible spiral structure. The galaxy is oriented horizontally, with its core pointing towards the left.

# Observing Selected Small Galaxy Groups

Alvin Huey  
FaintFuzzies.com



# Selected Small Galaxy Groups

Alvin Huey

[www.FaintFuzzies.com](http://www.FaintFuzzies.com)

Updated: March 2024

## **Observing Books by Alvin Huey**

Hickson Group Observer's Guide, 2<sup>nd</sup> edition

The Abell Planetary Observer's Guide, 2<sup>nd</sup> edition

Observing the Arp Peculiar Galaxies, Revised edition

## **Observing Guides by FaintFuzzies.com**

Herschel Objects – Parts I, II, and III

Selected Small Galaxy Groups

Galaxy Trios and Triple Systems

Globular Clusters – North of  $-50^\circ$

Planetary Nebulae and Supernovae Remnants

The Local Group

Flat Galaxies

Abell Galaxy Clusters

Voronstov-Velyaminov Catalogue – Part I and II

Rose Catalogue of Compact Galaxies

Variable Galaxies

Selected Shakhbazian Groups

Ring Galaxies

Palomar Compact Galaxy Catalogue

Object of the Week 2012 and 2013 – Deep Sky Forum

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All Maps by MegaStar™ v5

All DSS images (Digital Sky Survey) [archive.stsci.edu/dss/acknowledging.html](http://archive.stsci.edu/dss/acknowledging.html)

Front Cover: NGC 7331 and companions

This and other publications by the author are available through [www.faintfuzzies.com](http://www.faintfuzzies.com)



# Contents

Selected Small Galaxy Groups List.....	6
How to Use the Atlas .....	8
Selected Small Galaxy Groups Atlas .....	9
Additional Resources .....	148
Revision History .....	150

# Selected Small Galaxy Groups List

Page	Brightest Member	Other ID	RA	Dec	Const	Mag <sub>1</sub>	#
10	NGC 3	Includes Arp 246	00 07 16.8	+08 18 05	Psc	13.3	8
12	NGC 383	Pisces chain	01 07 25.2	+32 24 47	Psc	12.4	12+
14	NGC 507		01 23 40.1	+33 15 22	Psc	11.2	13+
16	NGC 329		00 58 01.5	-05 04 16	Cet	13.3	6
18	NGC 439	AGC 141	01 13 47.3	-31 44 50	Scl	11.4	12+
20	IC 5370		00 00 09.2	+32 44 18	And	14.9	12
22	NGC 68	Includes Arp 113	00 18 18.5	+30 04 18	And	12.9	16
24	NGC 80	Includes Arp 65	00 21 10.9	+22 21 26	And	12.1	30+
26	NGC 1129	AWM 7	02 54 27.1	+41 34 45	Per	12.5	7+
28	NGC 1399	AGC 373	03 38 29.0	-35 26 58	For	10.6	++
30	NGC 2289		06 50 53.6	+33 28 44	Gem	13.2	5
32	NGC 2340		07 11 10.7	+50 10 27	Lyn	11.7	9
34	NGC 2804	AWM 1	09 16 50.0	+20 11 54	Cnc	12.8	10+
36	NGC 2998		09 48 43.7	+44 04 52	UMa	12.5	6
38	NGC 3090	MKW 1	10 00 30.2	-02 58 08	Sex	13.6	10
40	CGCG 9-42	MKW 2s	10 27 10.2	-03 19 06	Sex	14.6	6+
42	MCG+0-27-23	MKW 2	10 30 10.6	-03 09 50	Sex	13.8	14+
44	UGC 4956	MKW 1s	09 20 01.9	+01 02 20	Hyd	13.5	4
46	NGC 3158		10 13 50.5	+38 45 53	LMi	11.9	9
48	NGC 2943		09 38 32.9	+17 01 52	Leo	12.4	8
50	NGC 3607		11 16 54.7	+18 03 05	Leo	9.9	7
52	M 66	Arp 16 and 317	11 20 15.0	+12 59 00	Leo	8.9	3+
54	IC 696		11 28 39.9	+09 05 55	Leo	13.7	7
56	NGC 3801		11 40 16.9	+17 43 41	Leo	12	6
58	NGC 4005		11 58 10.1	+25 07 19	Leo	13.1	12
60	M 106		12 18 57.3	+47 18 31	CVn	8.4	11
62	IC 4064	AWM 6	13 01 06.7	+39 50 29	CVn	14.7	6+
64	NGC 5280		13 42 55.6	+29 52 06	CVn	13.6	6
66	NGC 4065		12 04 06.2	+20 14 07	Com	12.6	20
68	NGC 4104	MKW 4s	12 06 38.9	+28 10 27	Com	13.1	10+
70	NGC 4213	AWM 2	12 15 37.6	+23 58 56	Com	13.5	16
72	M 100		12 22 55.0	+15 49 25	Com	9.3	10
74	MCG-1-30-3	Part of NGC 3724 group	11 34 16.9	-09 34 33	Crt	14.1	9
76	NGC 3822	MKW 10 (inc. Hickson 58)	11 42 11.2	+10 16 40	Vir	14.1	5+
78	CGCG 12-99	MKW 3	11 49 41.0	-03 30 34	Vir	14.2	7
80	NGC 4073	MKW 4	12 04 27.1	+01 53 45	Vir	11.1	14
82	NGC 4261		12 19 23.2	+05 49 29	Vir	10.4	32
84	M 86		12 26 11.8	+12 56 49	Vir	8.9	++
86	M 49		12 29 46.5	+07 59 58	Vir	8.4	12
88	M 87		12 30 49.7	+12 23 24	Vir	8.6	9

Page	Brightest Member	Other ID	RA	Dec	Const	Mag <sub>1</sub>	#
90	M 60		12 43 40.3	+11 32 58	Vir	8.8	10
92	NGC 5044		13 15 24.0	-16 23 09	Vir	10.8	8
94	NGC 5171	MKW 11	13 29 21.6	+11 44 06	Vir	12.8	7
96	NGC 5400	MKW 5	14 00 37.2	-02 51 27	Vir	13.9	6
98	MCG +0-36-32	MKW 6	14 17 35.5	+02 03 11	Vir	15.3	9+
100	UGC 9371	MKW 7	14 33 59.1	+03 46 40	Vir	15	10+
102	NGC 5718	MKW 8	14 40 42.9	+03 27 57	Vir	13.9	7+
104	NGC 5846		15 06 29.2	+01 36 23	Vir	10	5
106	IC 4349	Includes Hickson 69	13 55 45.1	+25 12 11	Boo	15.3	20+
108	NGC 5434	MKW 12	13 53 26.7	+40 18 09	Boo	13.2	10
110	NGC 5490	Includes Arp 79 and 117	14 09 57.3	+17 32 44	Boo	12.1	6
112	NGC 5629	AWM 3	14 28 16.3	+25 50 55	Boo	13	7+
114	NGC 5714		14 38 11.4	+46 38 19	Boo	13.4	10+
116	NGC 5754	Includes Arp 297	14 45 19.7	+38 43 57	Boo	13.1	4
118	UGC 9521		14 47 00.1	+11 35 31	Boo	14.4	6
120	NGC 5920	MKW 3s	15 21 51.9	07 42 32	Ser	14.7	5+
122	UGC 9887	MKW 9	15 32 44.2	+04 44 54	Ser	15	5+
124	NGC 6051	AWM 4	16 04 56.7	+23 55 57	Ser	14.2	5
126	NGC 6269	AWM 5	16 57 58.1	+27 51 15	Her	12.2	5
128	NGC 6211		16 41 27.8	+57 47 01	Dra	12.6	4
130	NGC 6338		17 15 22.6	+57 24 45	Dra	12.3	7
132	NGC 6472		17 44 14.9	+67 37 10	Dra	14.2	6
134	NGC 6962		20 47 19.0	+00 19 17	Aqr	12.1	13
136	NGC 7184		22 02 39.7	-20 48 50	Aqr	11.2	7?
138	NGC 7103	Center of AGC 963	21 39 51.4	-22 28 25	Cap	12.6	7+
140	NGC 7331	Deer Lick group	22 37 04.5	+34 25 00	Peg	9.5	9
142	NGC 7385		22 49 54.6	+11 36 31	Peg	12	7
144	NGC 7436		22 57 56.0	+26 09 00	Peg	13	5
146	NGC 7619	Pegasus I group	23 20 14.5	+08 12 23	Peg	11.1	15

## Other ID

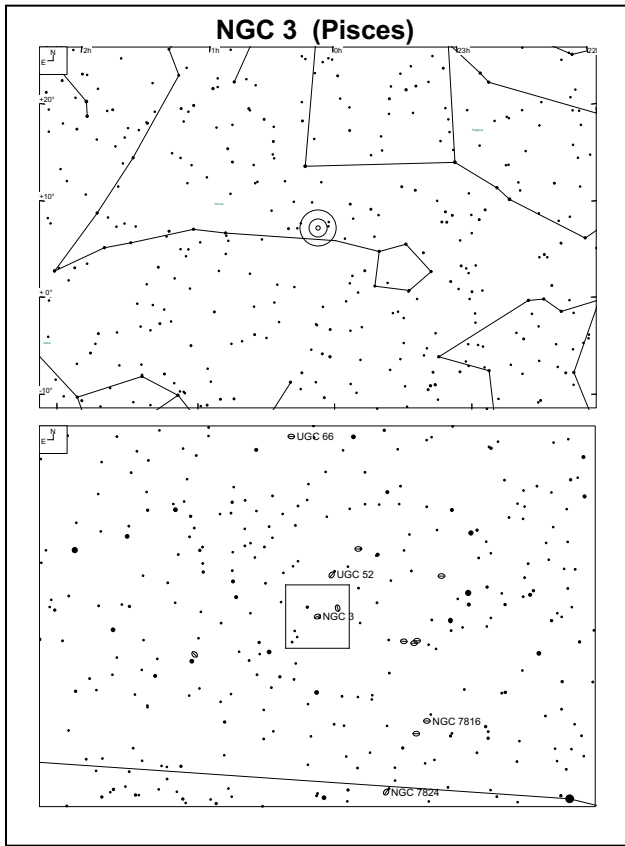
Hickson – Hickson Galaxy Group Catalog number  
([ned.ipac.caltech.edu/level5/Sept01/Hickson/Hickson\\_contents.html](http://ned.ipac.caltech.edu/level5/Sept01/Hickson/Hickson_contents.html))

AGC – Abell Galaxy Cluster

MKW – The catalog number of poor clusters in Morgan, Kayser and White’s paper. See page 148 for bibliographic details for the paper.

AWM – The catalog number of poor clusters (II) in Albert, Whites and Morgan’s paper. See page 148 for bibliographic details for the paper.

# How to Use the Atlas



## Left page

The top panel is the naked eye field with the TelRad™ superimposed on the center of the Galaxy Group. The bottom panel is a finder field of about 4.5° across and 3.0° high. The finder field is wide enough for the finder scope and detailed enough for those who choose to use a low power eyepiece as a “finder”. The limiting magnitude of the field stars is typically set to 12.0, otherwise at 11.0 for star rich regions. The field of the DSS image is superimposed on the finder chart.

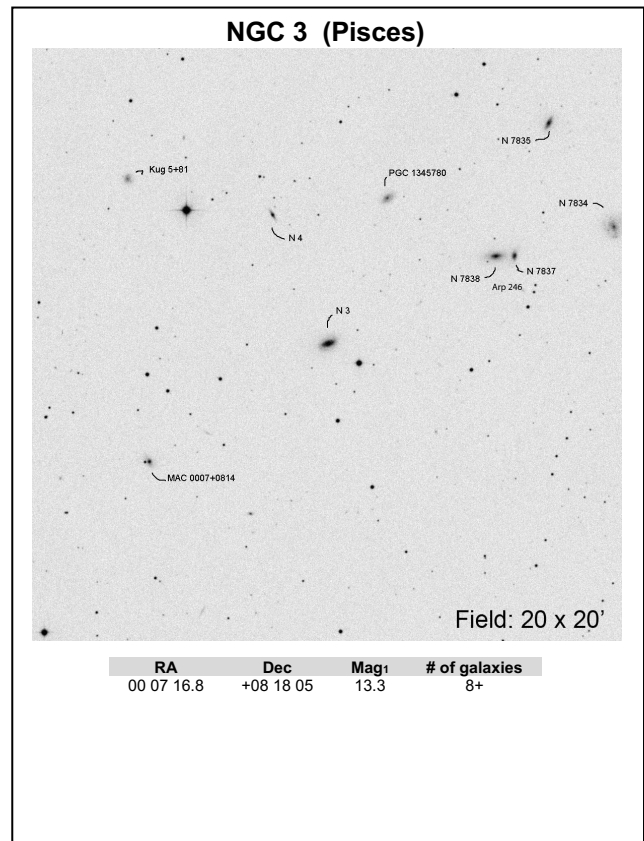
## Right page

The field of the DSS image is noted at the bottom right. It ranges from 15 x 15' to 60' x 60'.

Most unlabeled galaxies are MAC objects (Mitchell Anonymous Galaxies). I purposely didn't label all of them to minimize clutter.

A table provided below lists the following:

- **RA** and **Dec** in Epoch 2000.0 of the center of the field
- **Mag<sub>1</sub>** – the listed magnitude of the brightest galaxy of the group.
- **# of galaxies** – number as published



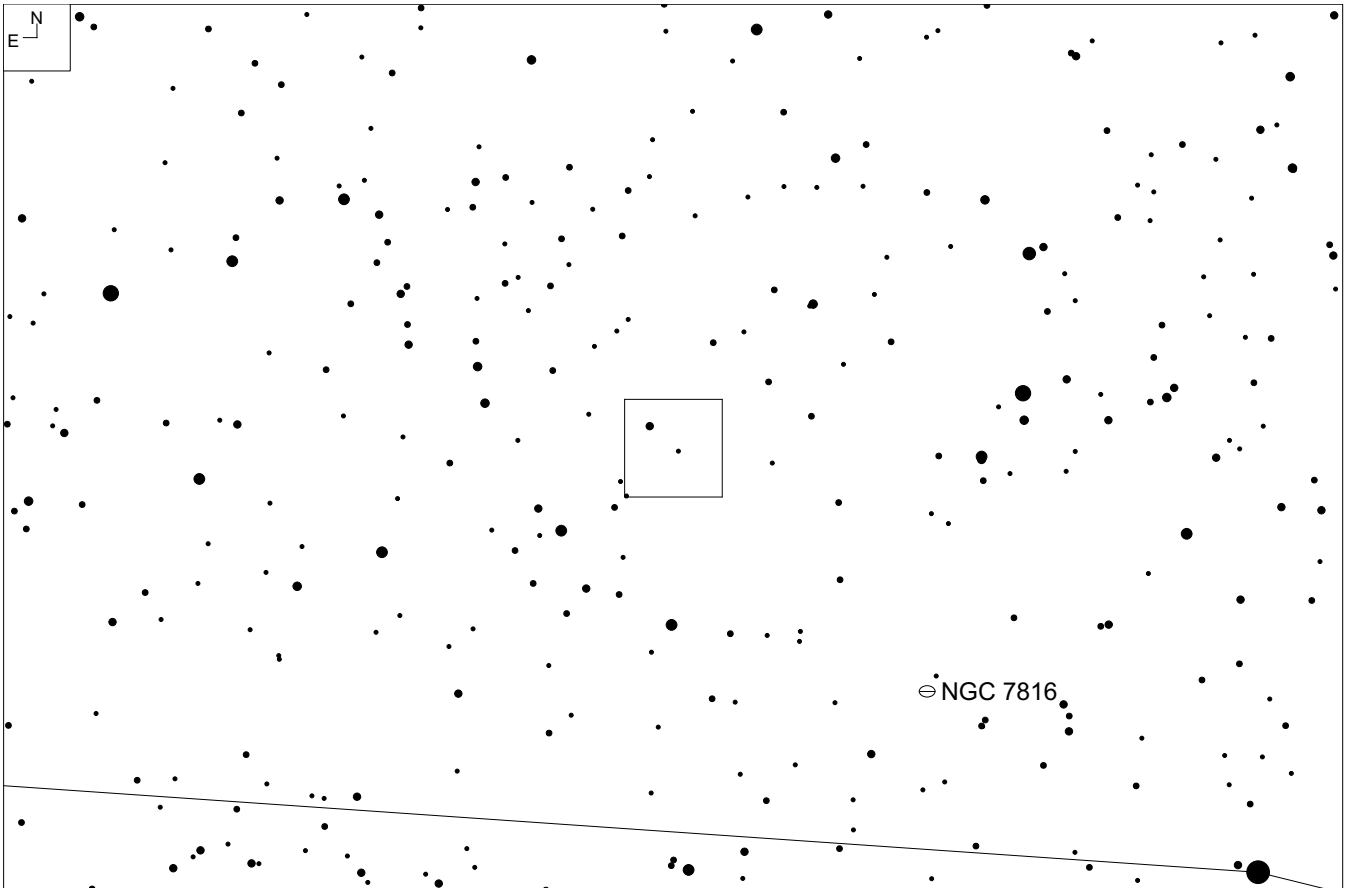
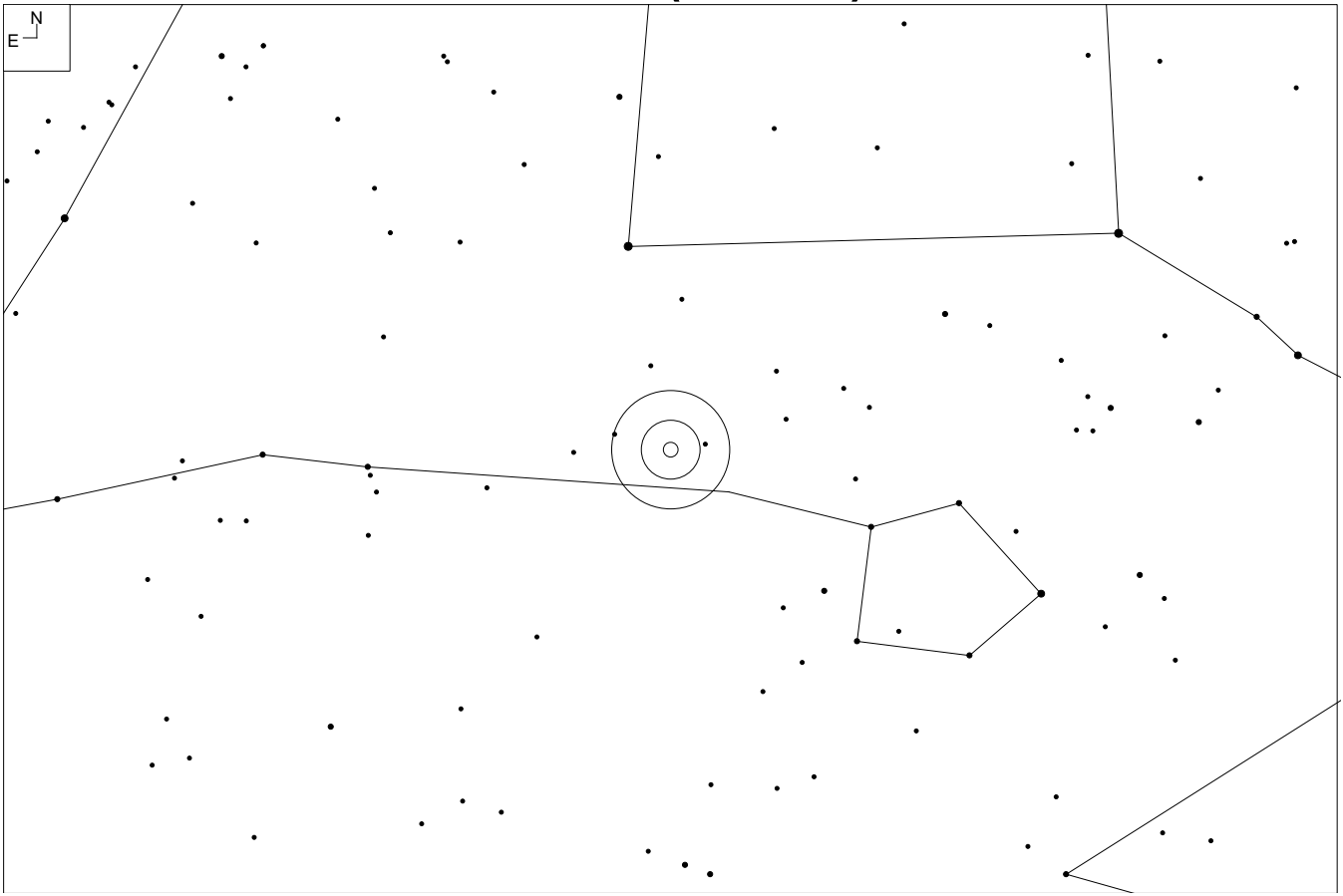
Any comments or to share any observations, send them to [Alvin.Huey@FaintFuzzies.com](mailto:Alvin.Huey@FaintFuzzies.com).

Any feedback or suggestions would be greatly appreciated. I hope to keep this resource updated and made available to all of you, the deep sky observer.

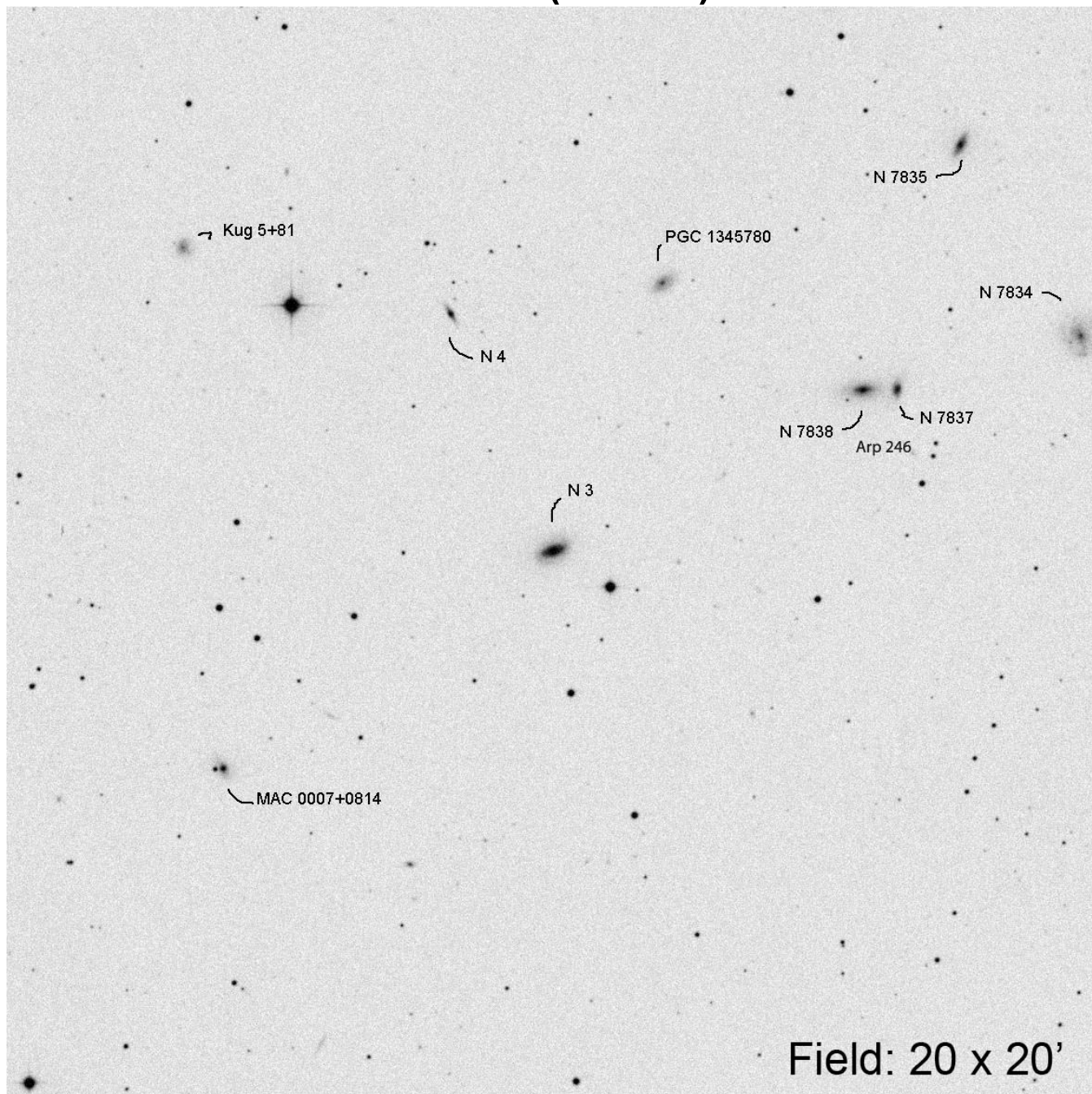


# **Selected Small Galaxy Groups Atlas**

# NGC 3 (Pisces)



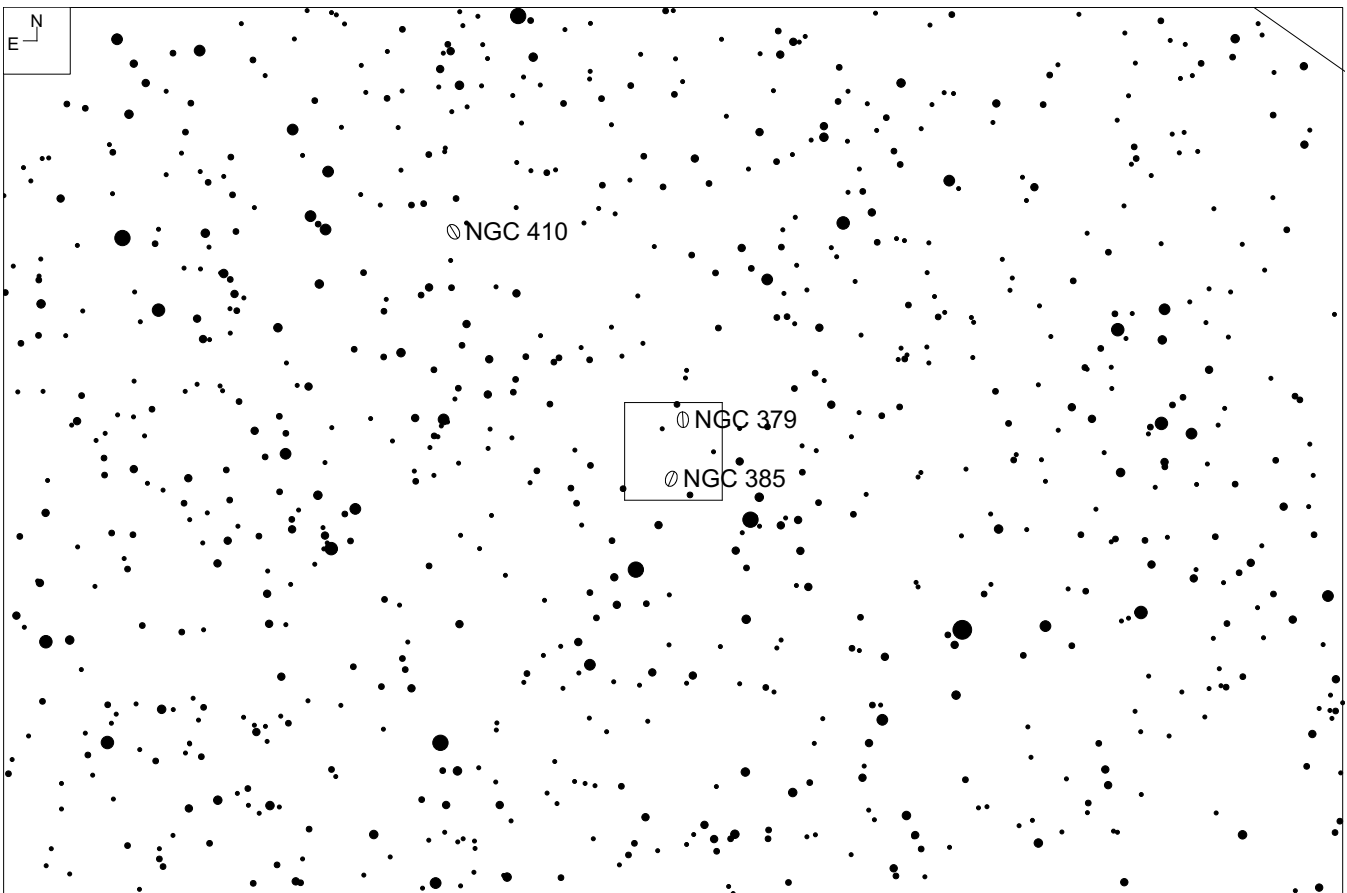
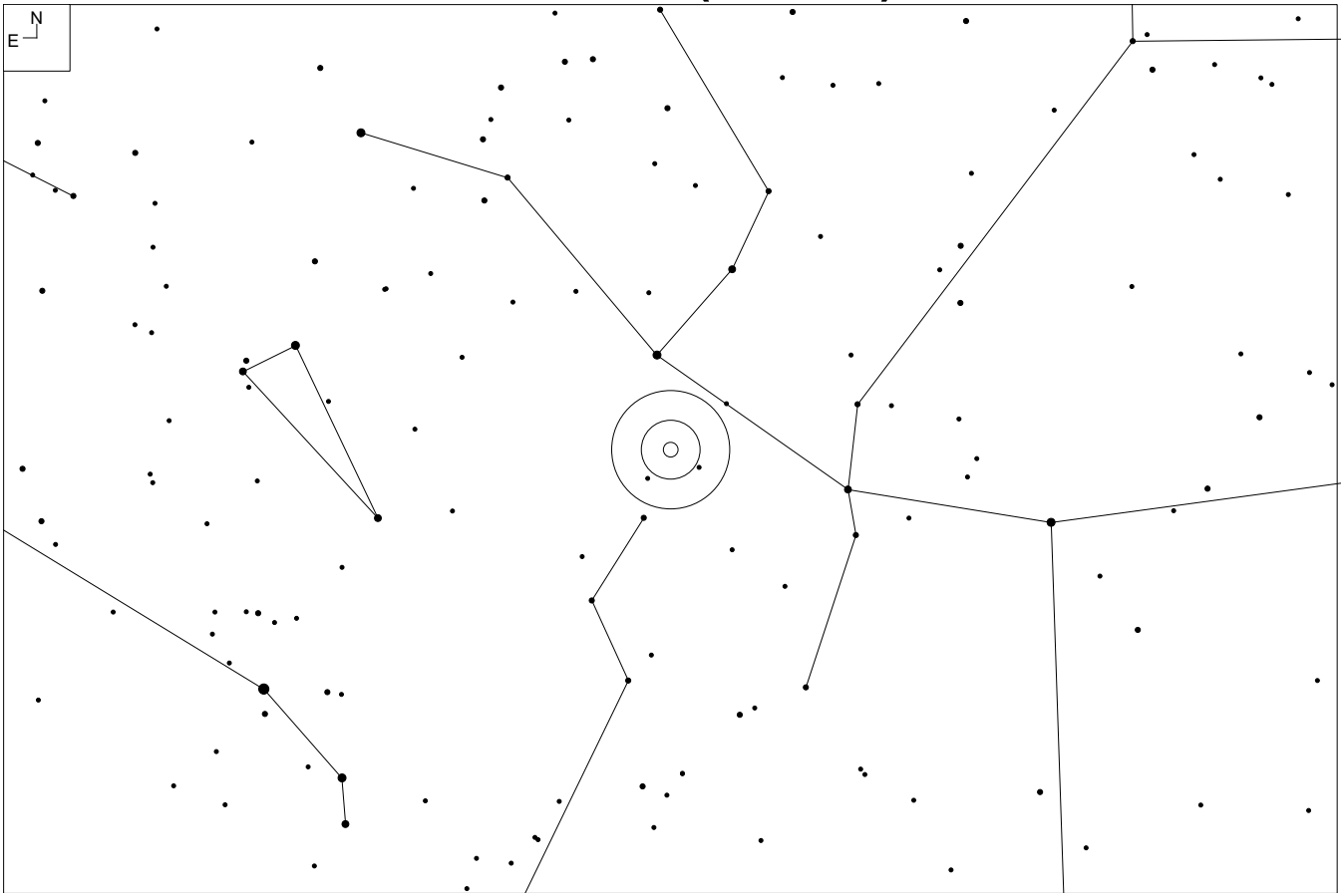
# NGC 3 (Pisces)



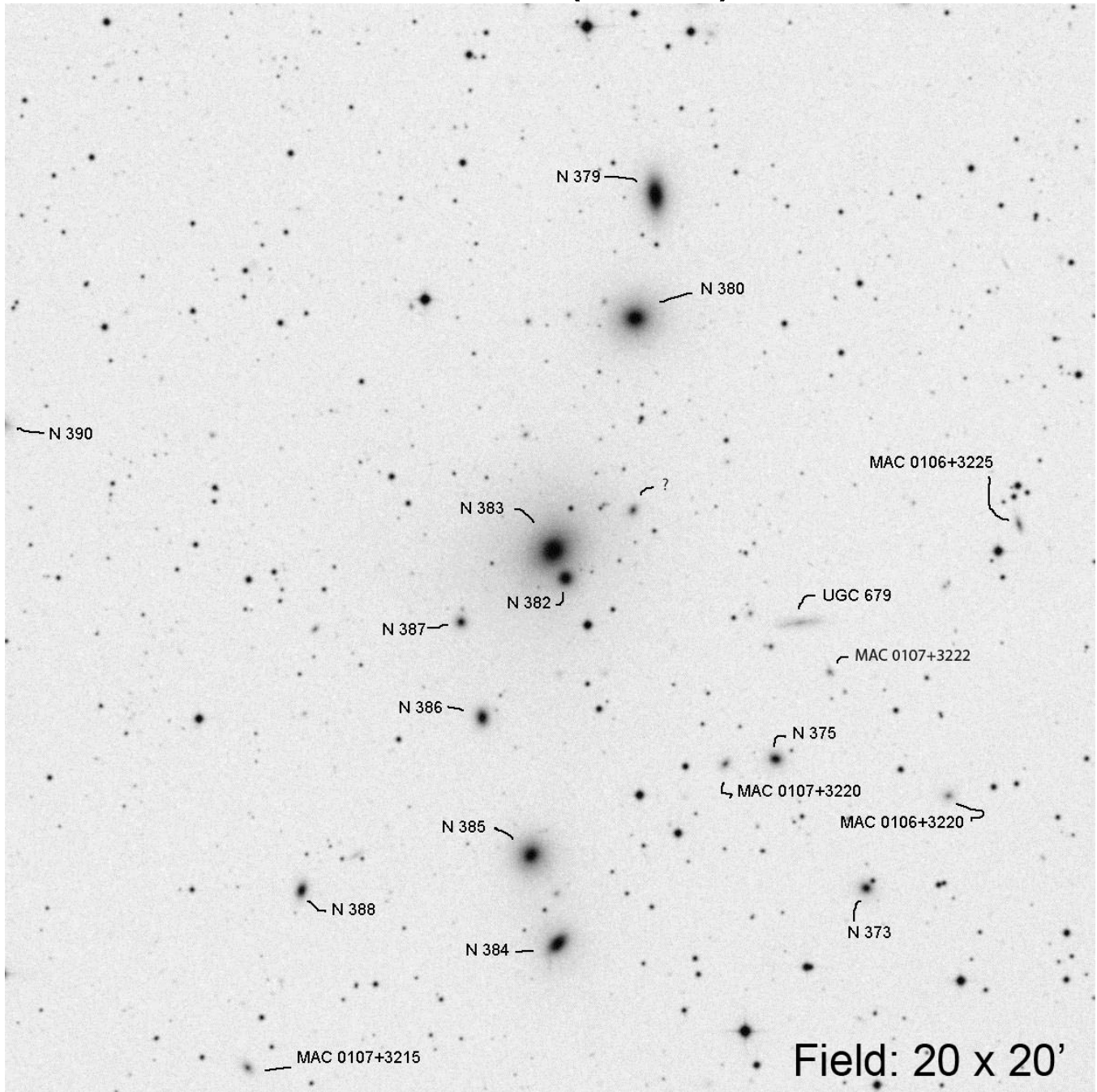
RA	Dec	Mag <sub>1</sub>	# of galaxies
00 07 16.8	+08 18 05	13.3	8

**Includes Arp 246**

# NGC 383 (Pisces)



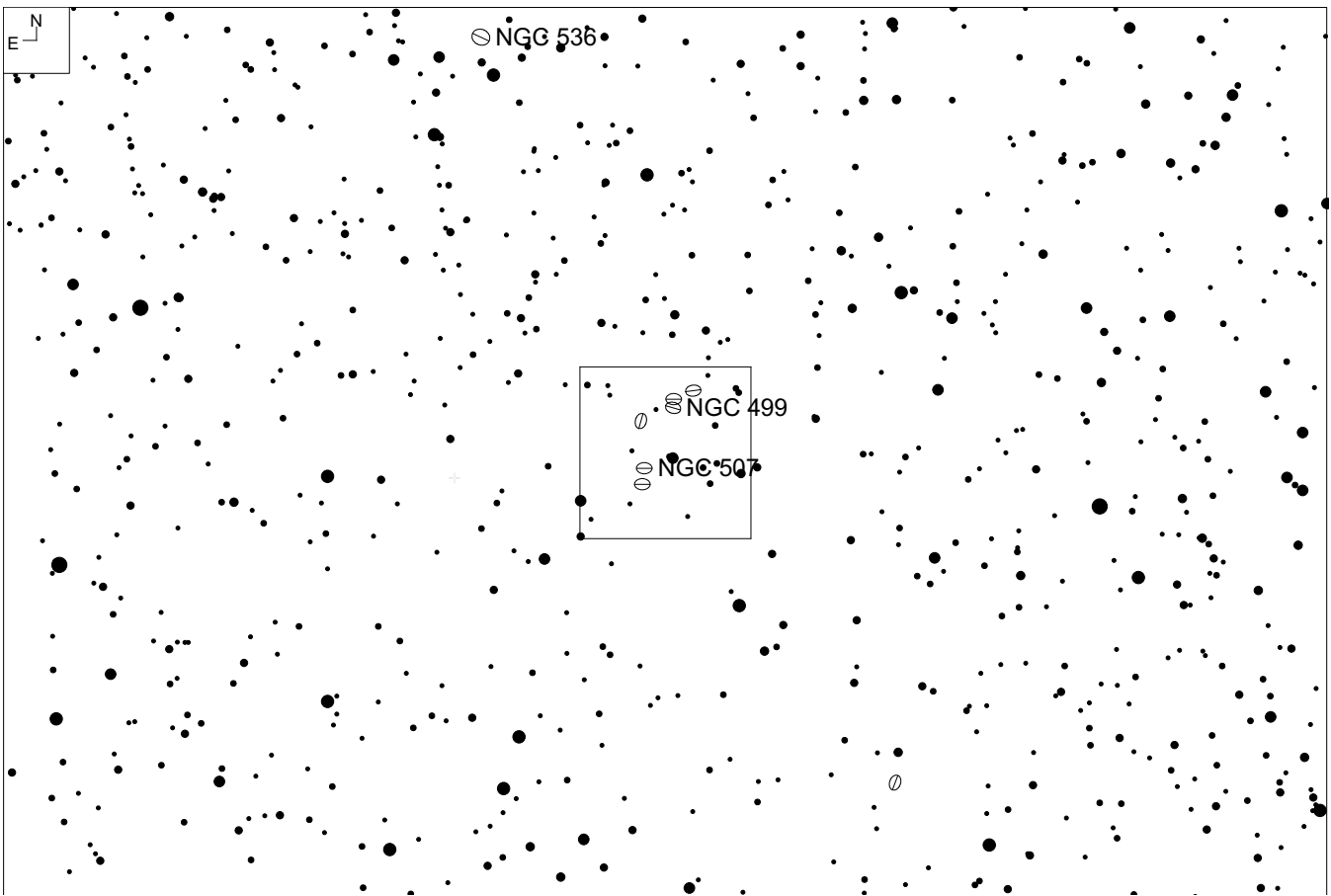
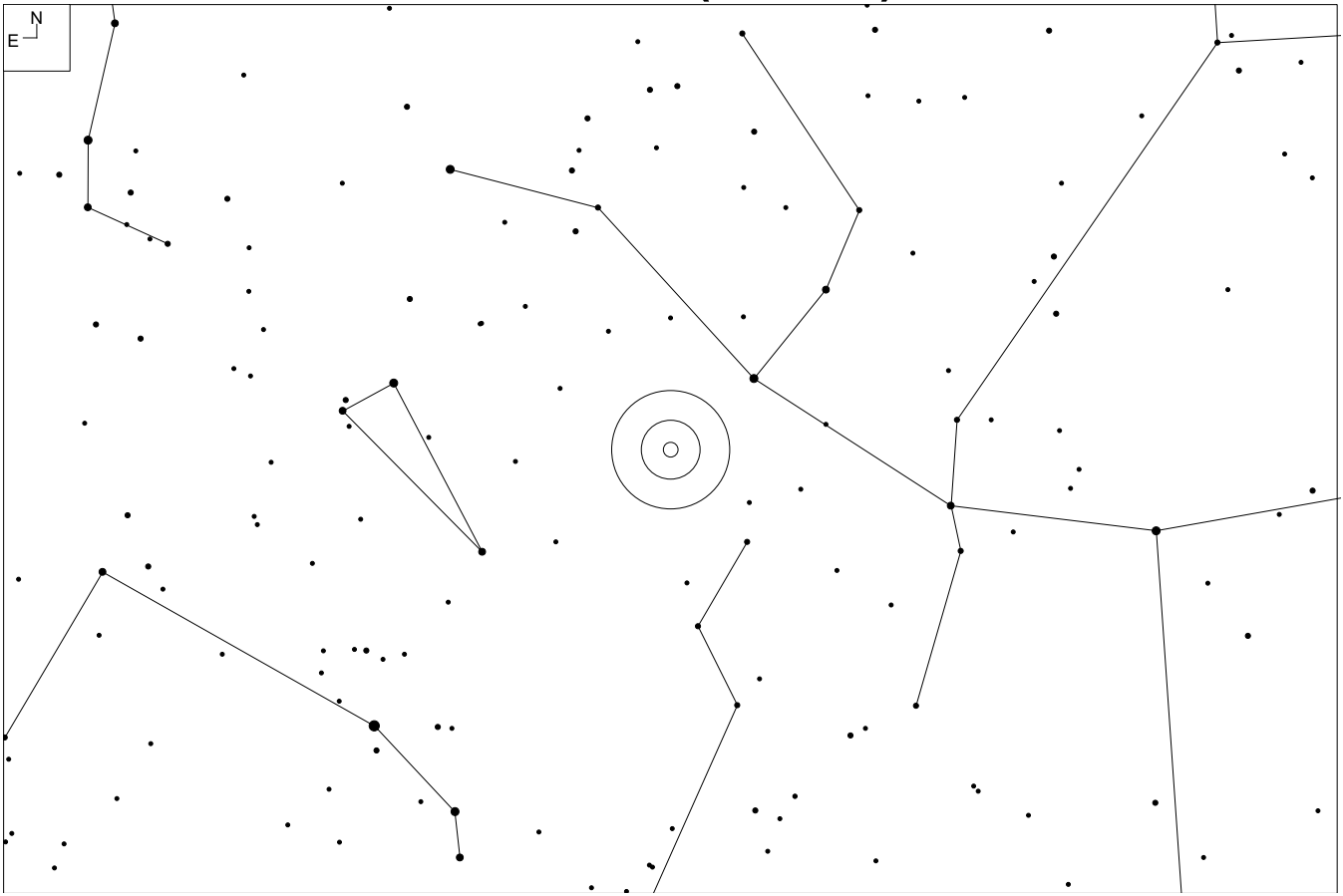
# NGC 383 (Pisces)



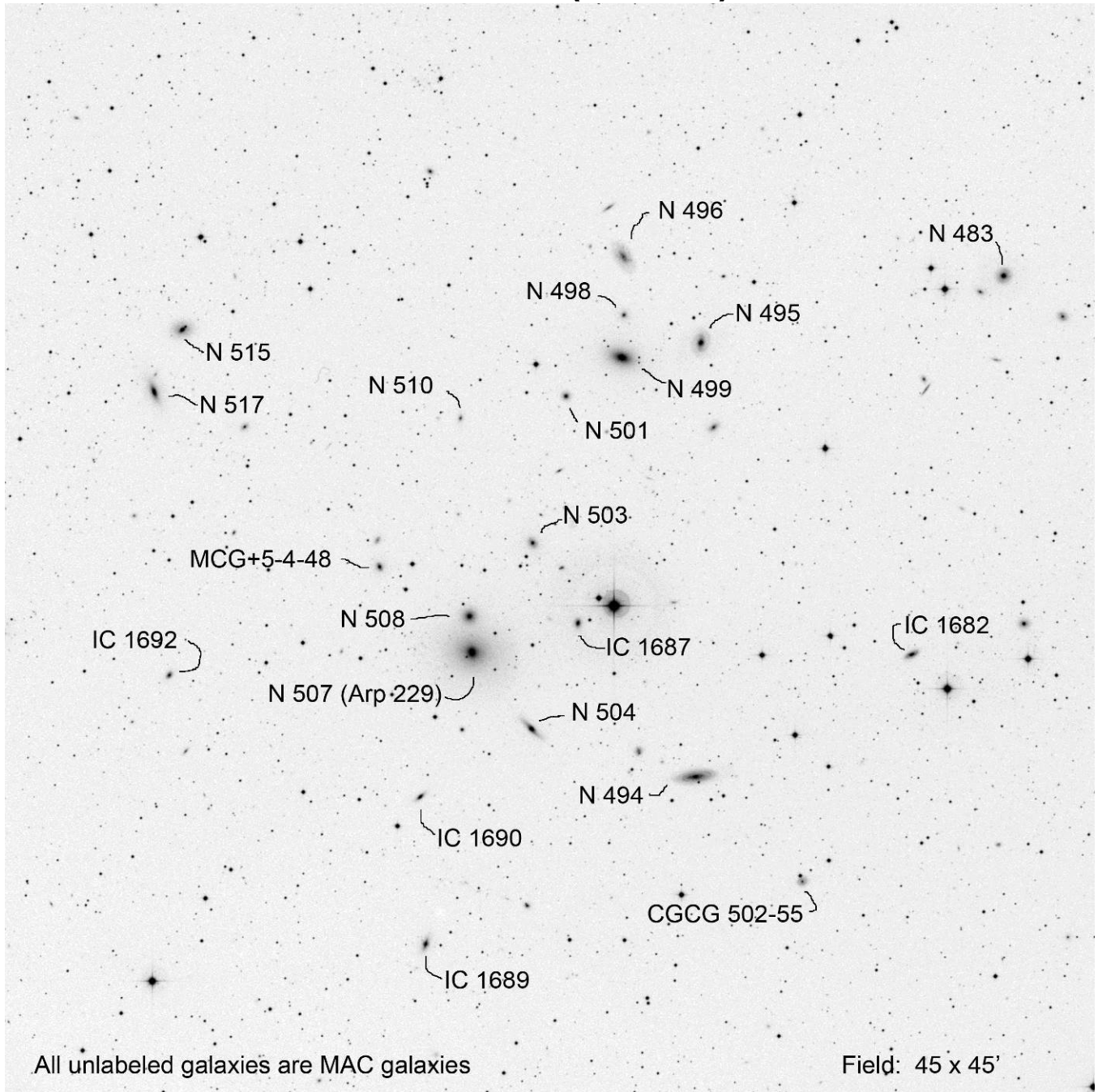
RA	Dec	Mag <sub>1</sub>	# of galaxies
01 07 25.2	+32 24 47	12.4	12+

## Pisces Chain

# NGC 507 (Pisces)

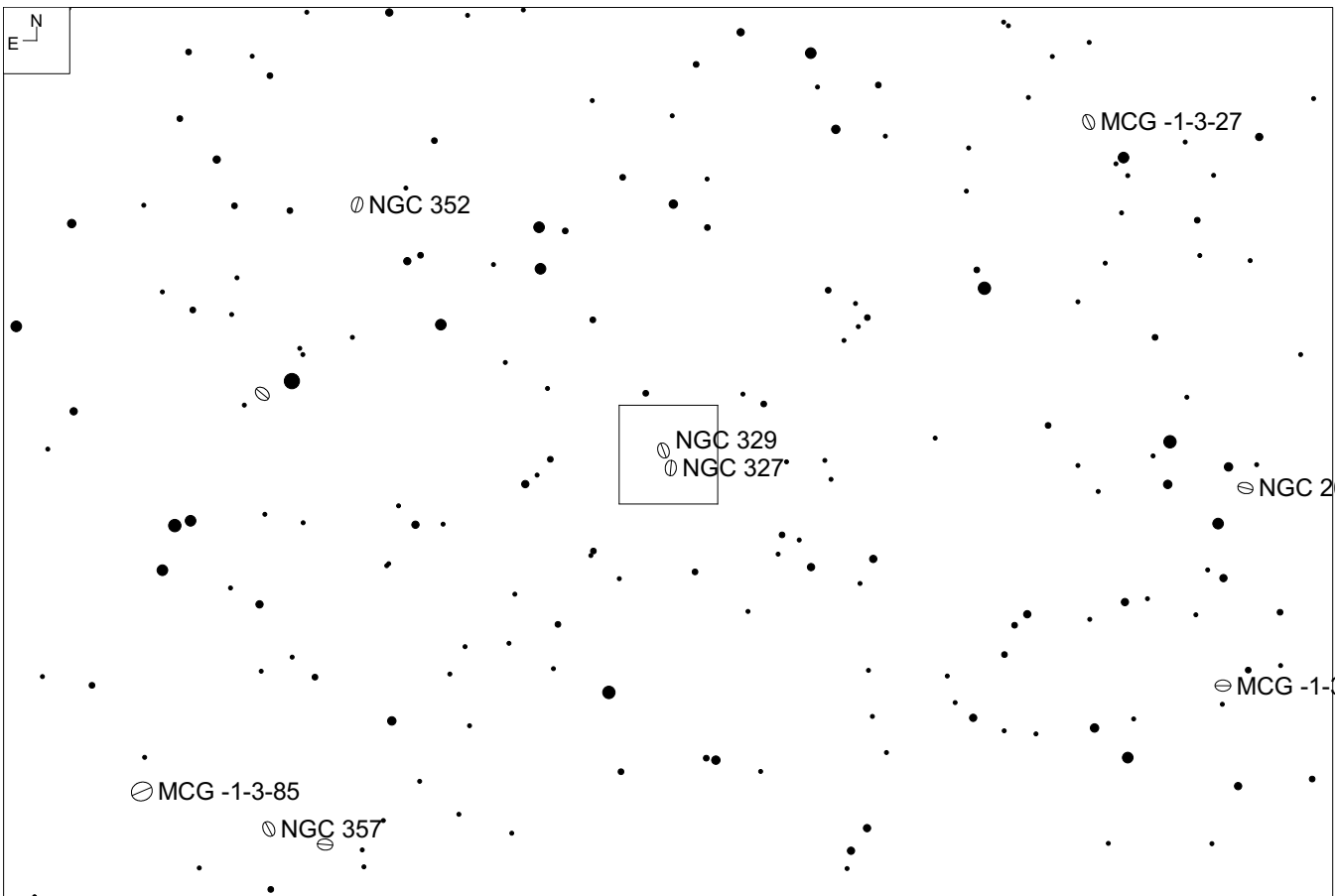
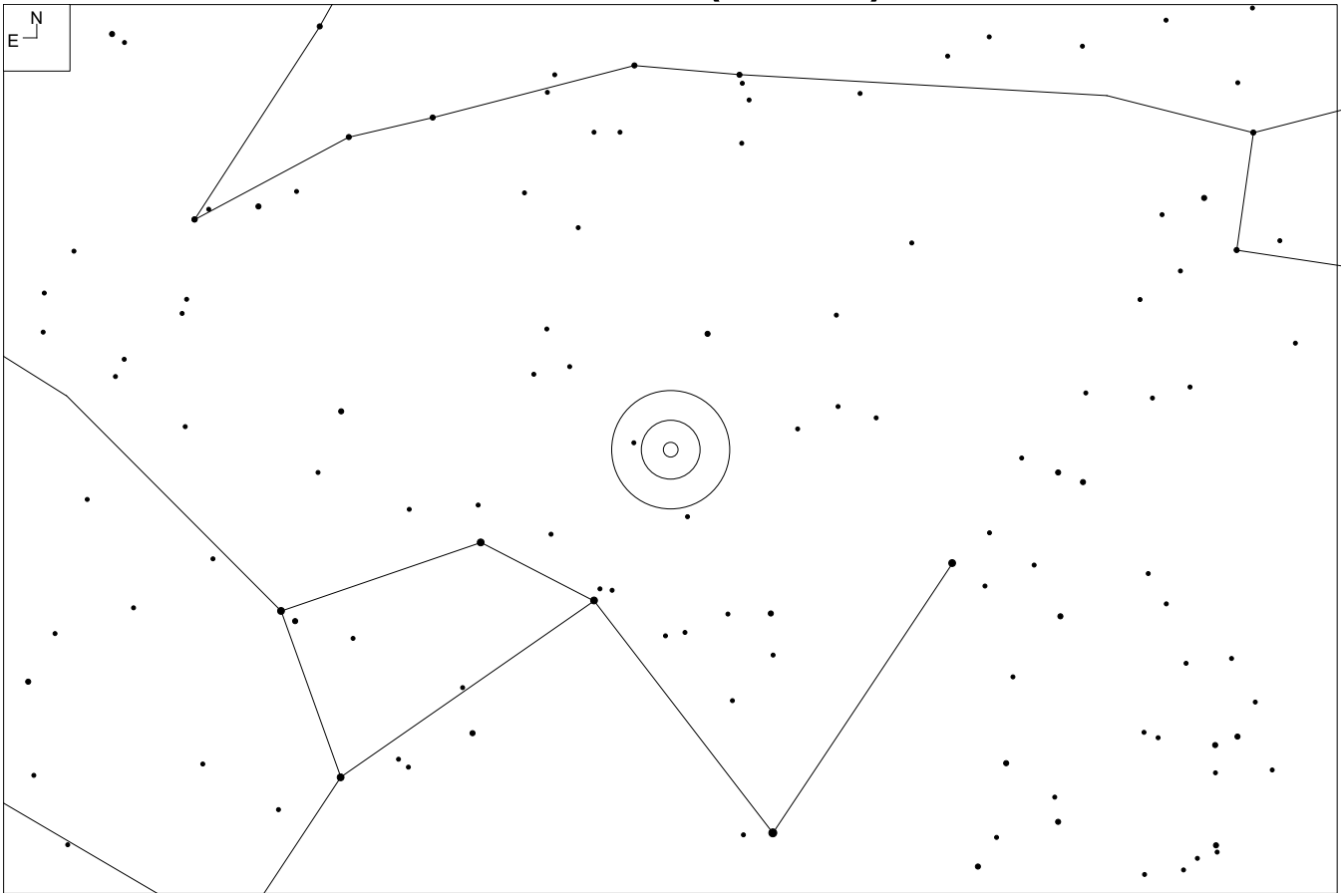


# NGC 507 (Pisces)



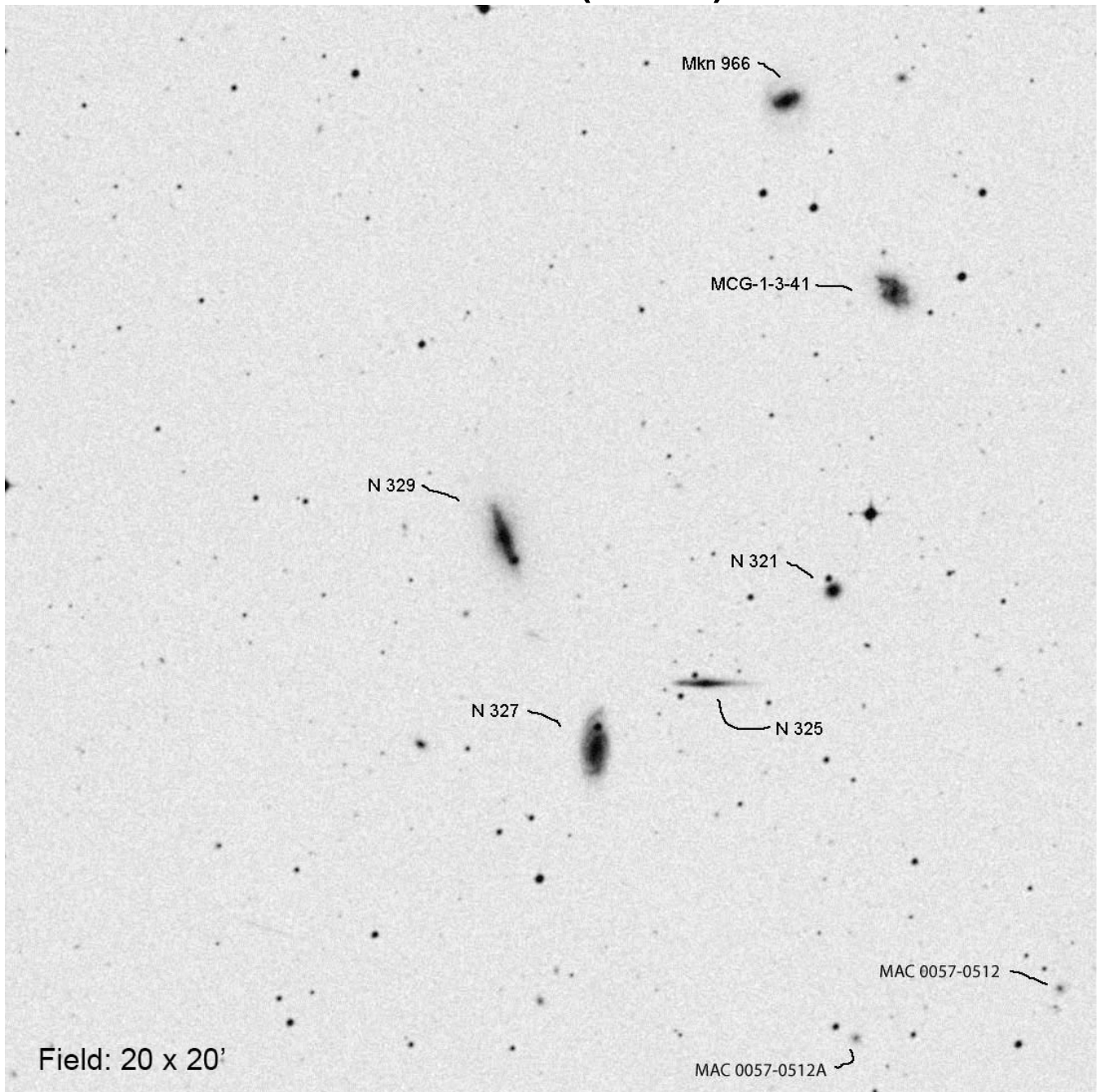
RA	Dec	Mag <sub>1</sub>	# of galaxies
01 23 40.1	+33 15 22	11.2	13+

# NGC 329 (Cetus)





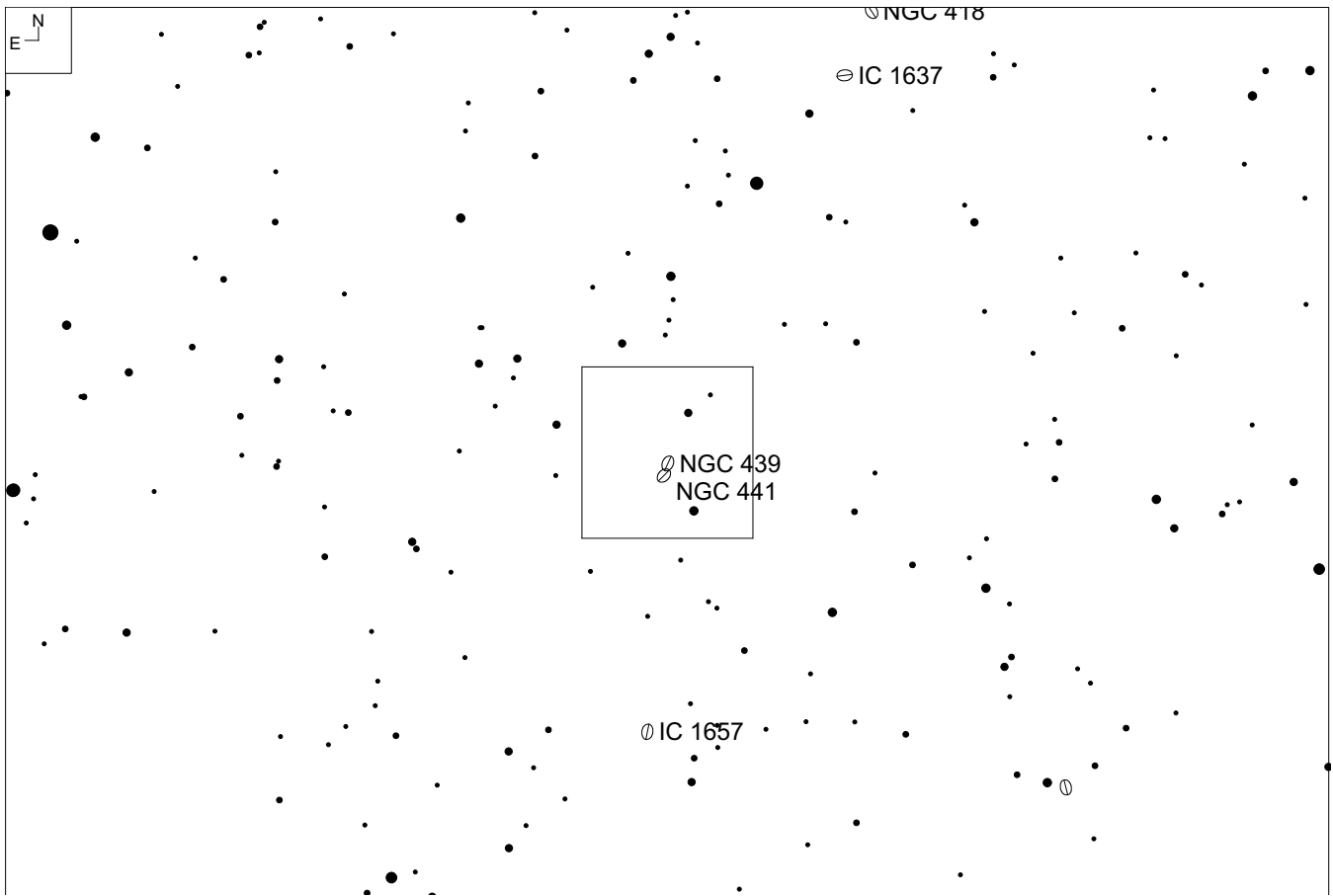
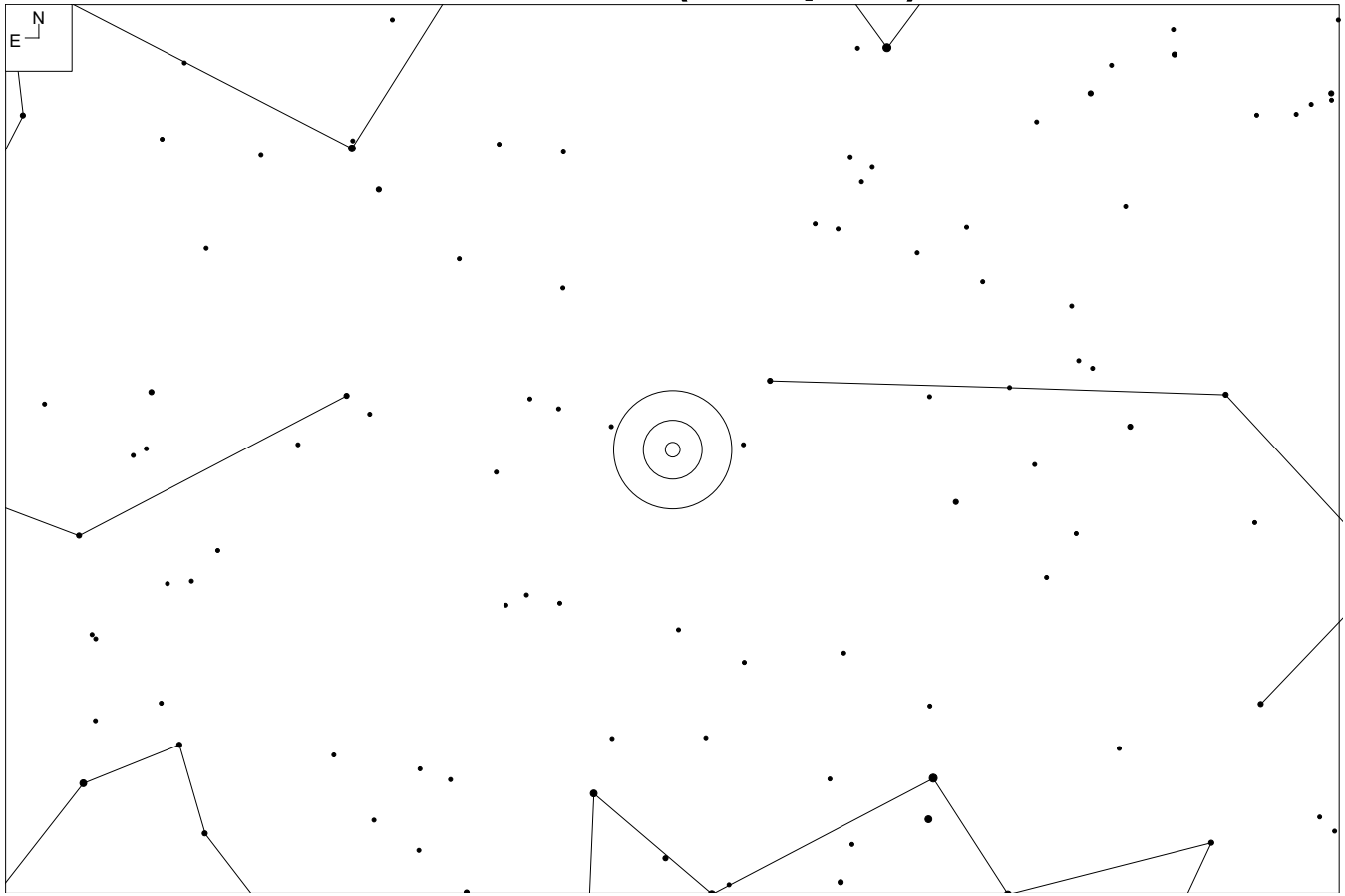
# NGC 329 (Cetus)



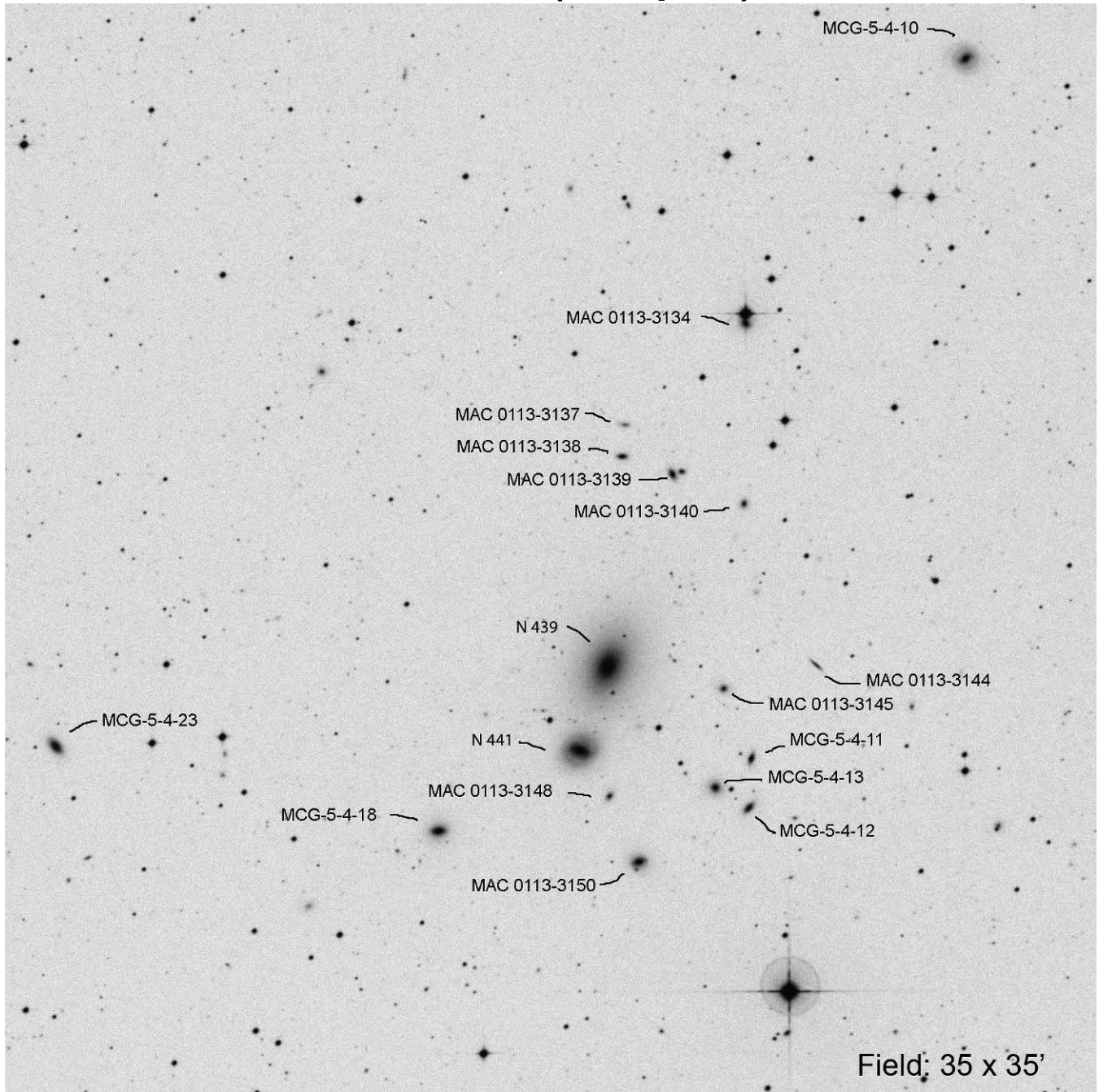
Field: 20 x 20'

RA	Dec	Mag <sub>1</sub>	# of galaxies
00 58 01.5	-05 04 16	13.3	6

# NGC 439 (Sculptor)

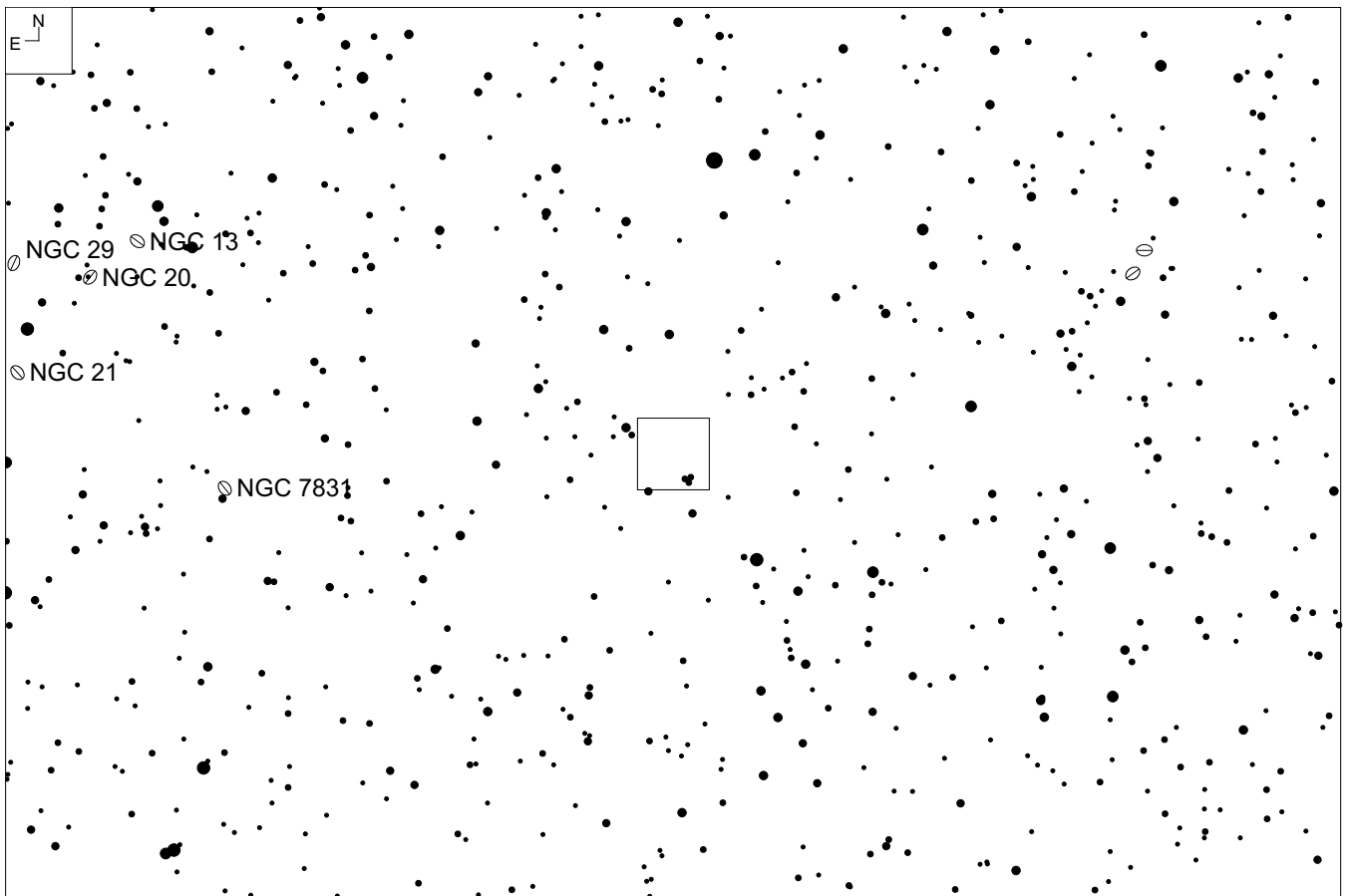
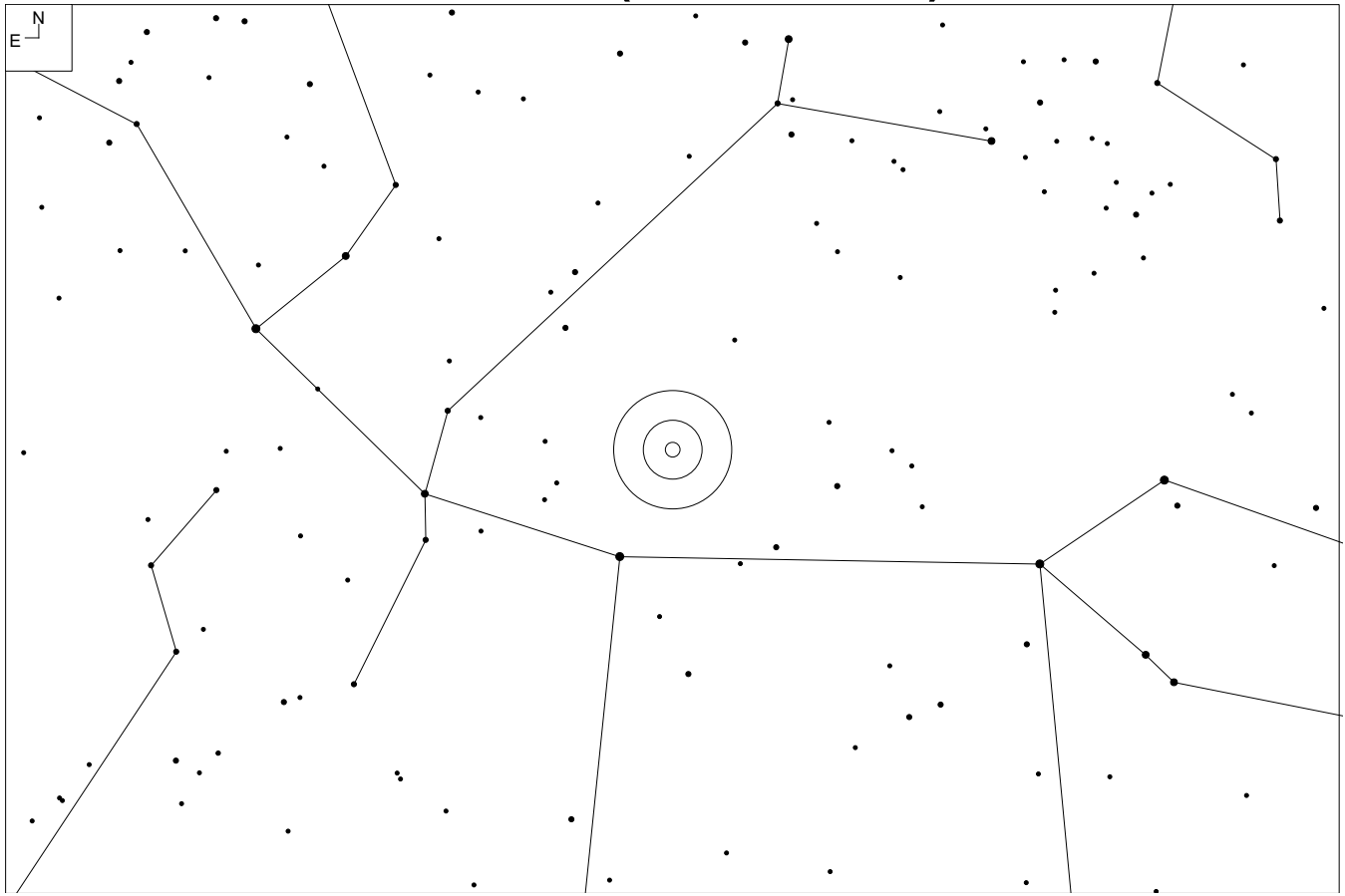


# NGC 439 (Sculptor)

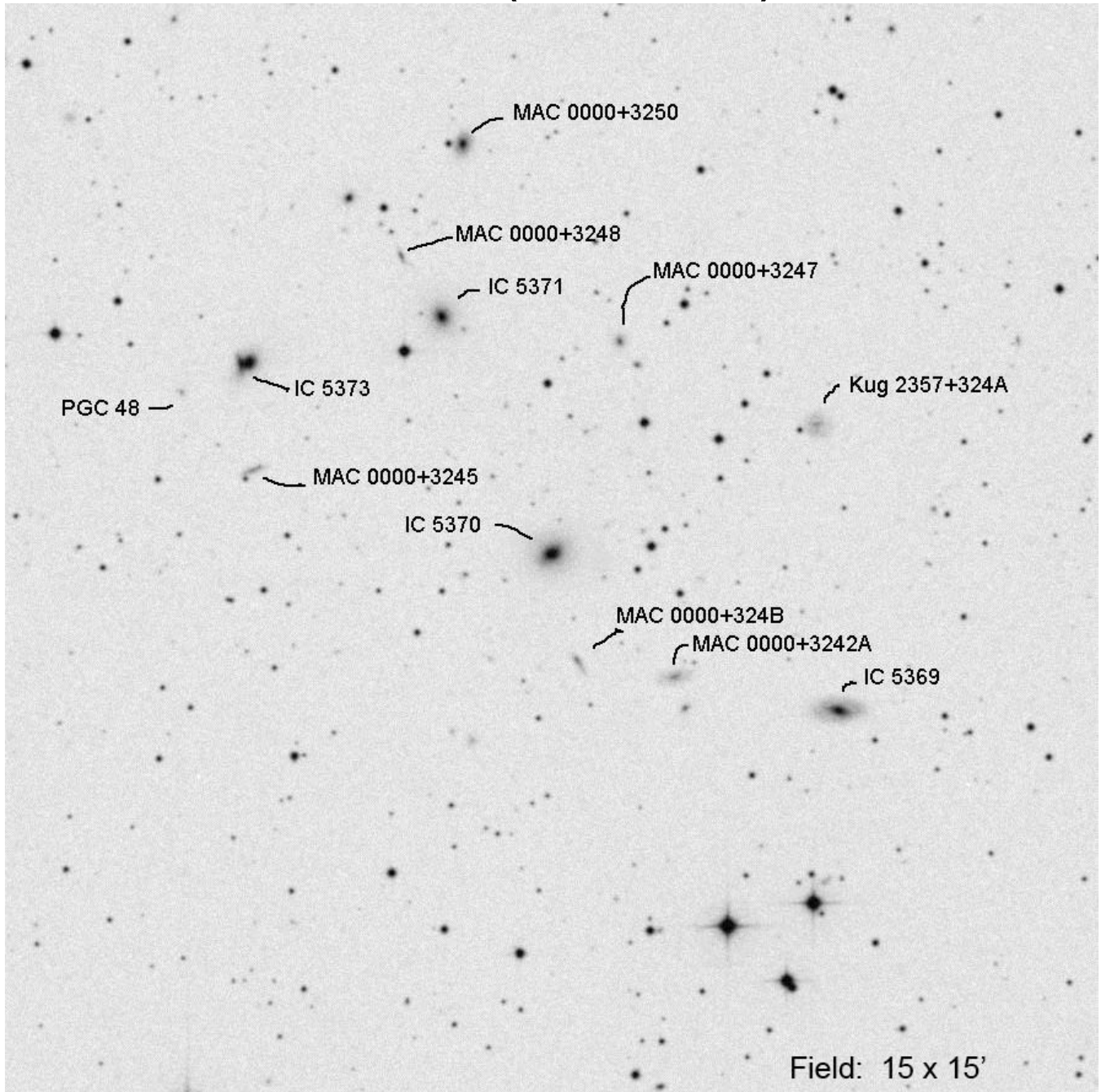


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AGC 141	01 13 47.3	-31 44 50	11.4	12

# IC 5370 (Andromeda)

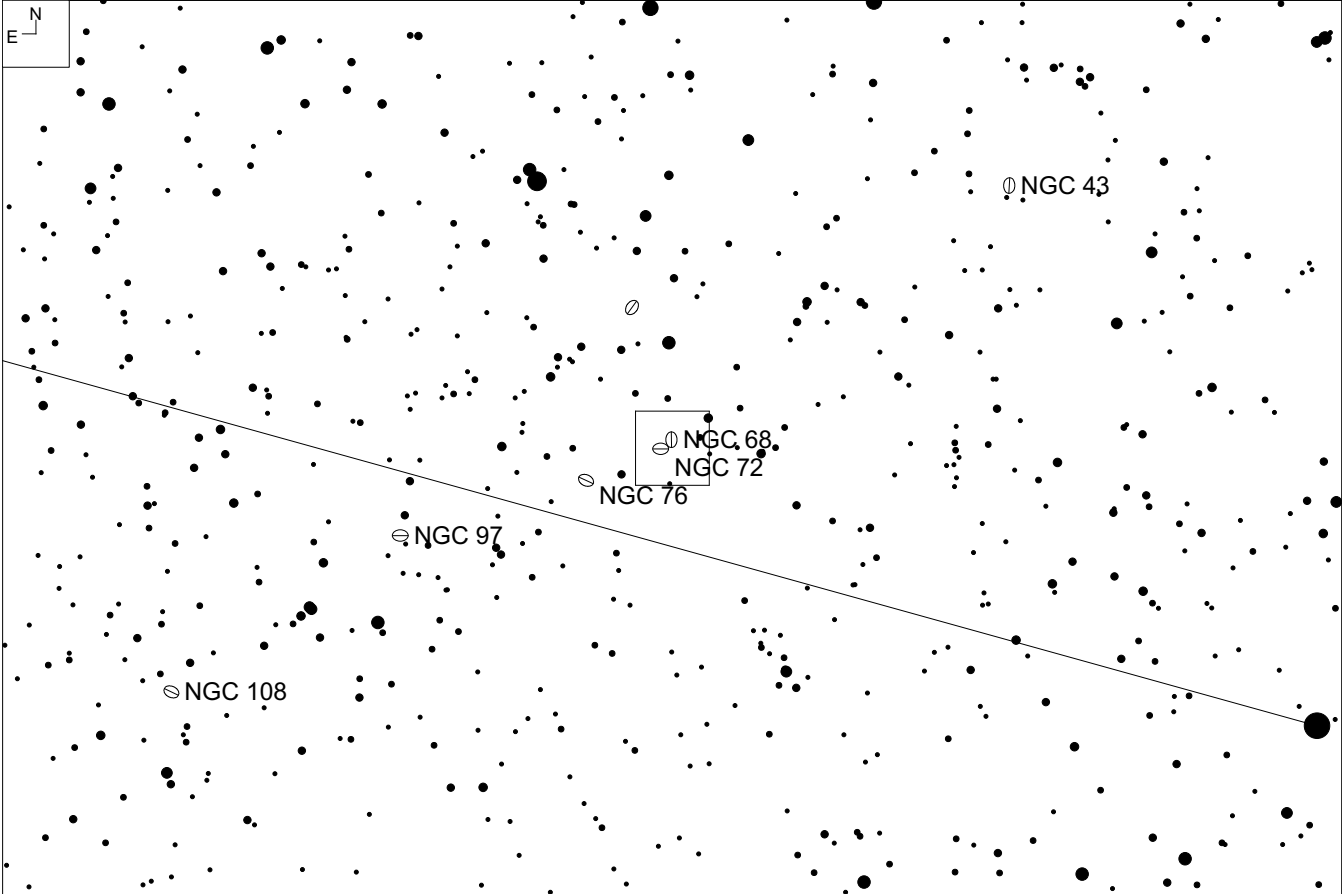
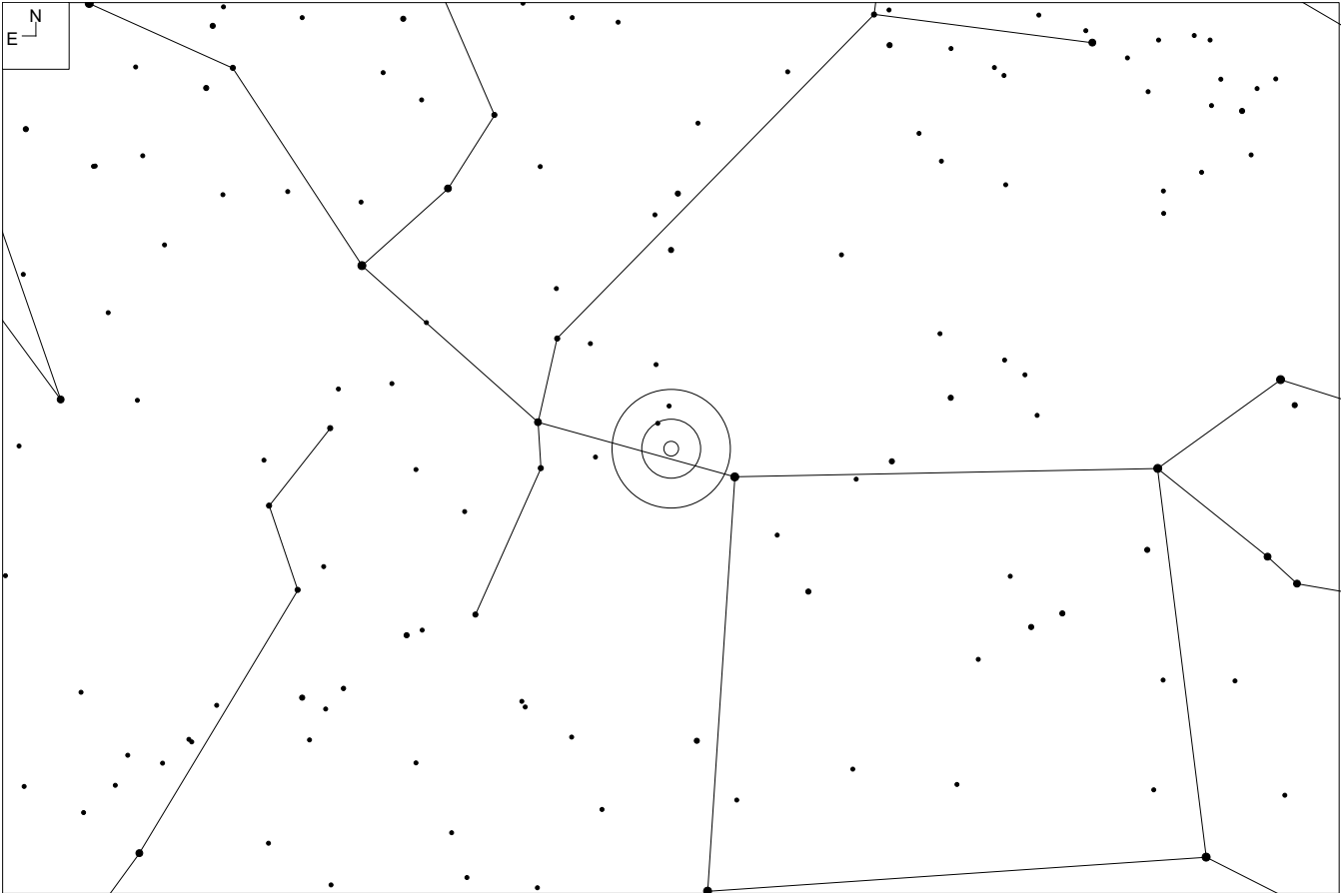


# IC 5370 (Andromeda)

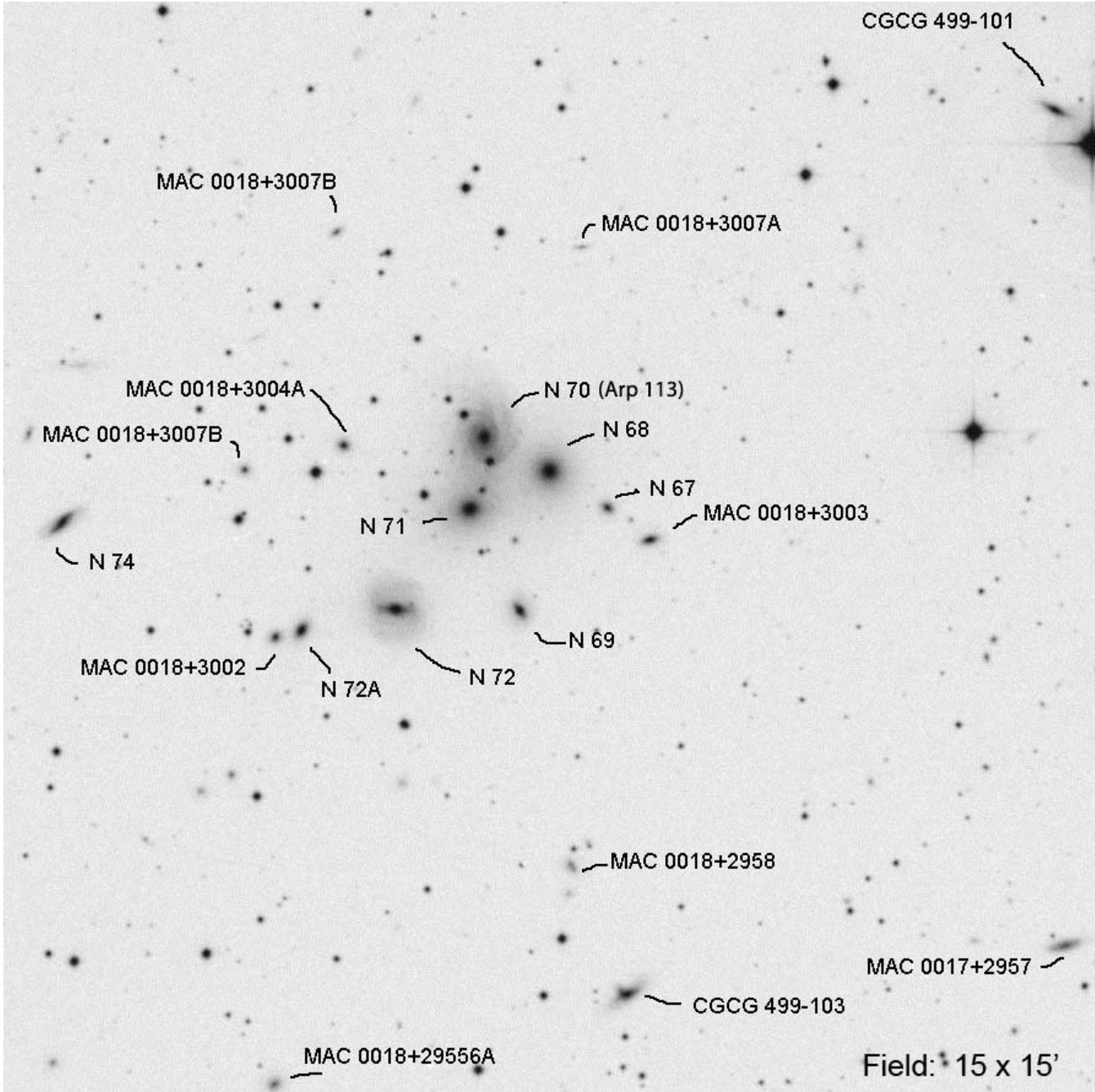


RA	Dec	Mag <sub>1</sub>	# of galaxies
00 00 09.2	+32 44 18	14.9	12

# NGC 68 (Andromeda)



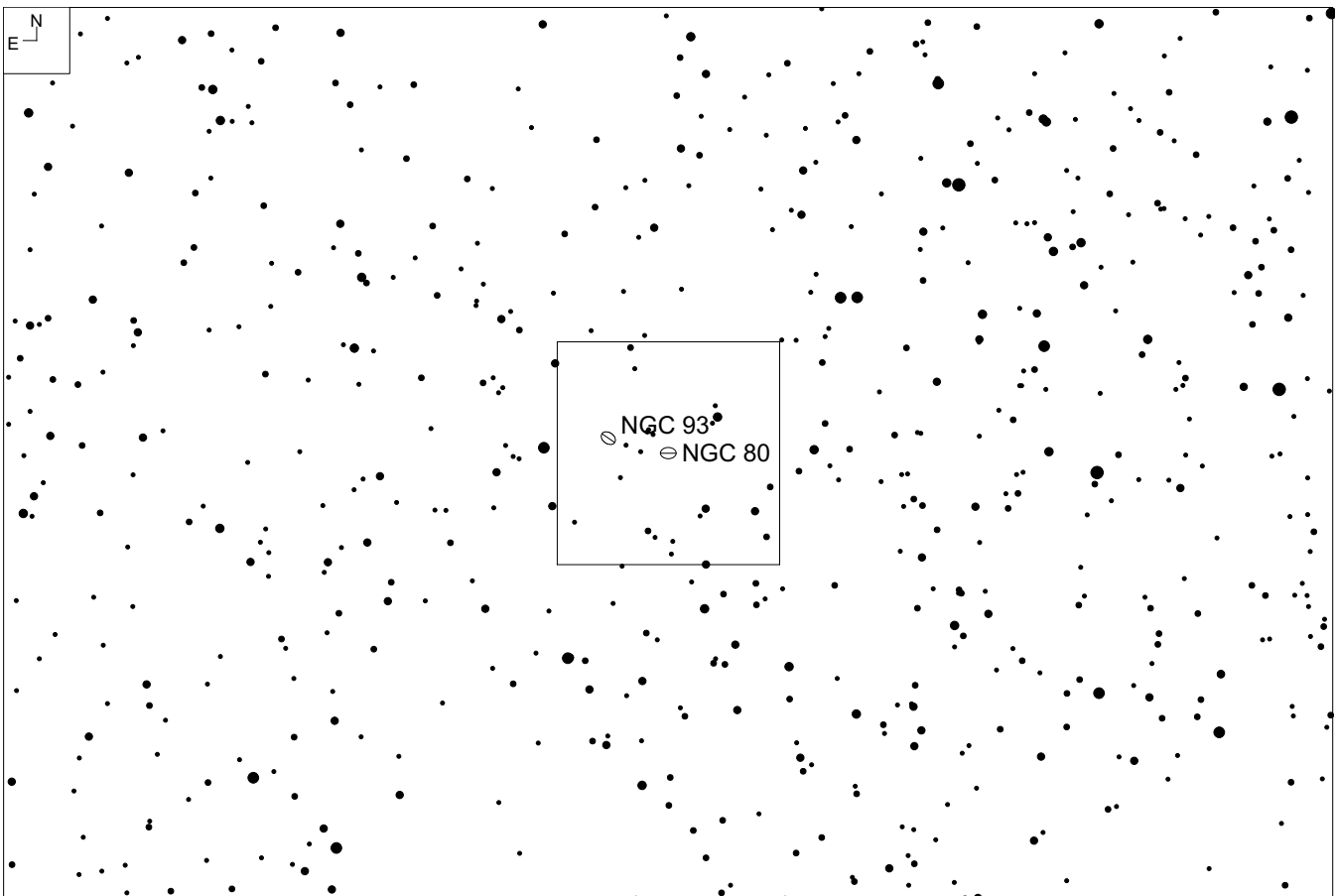
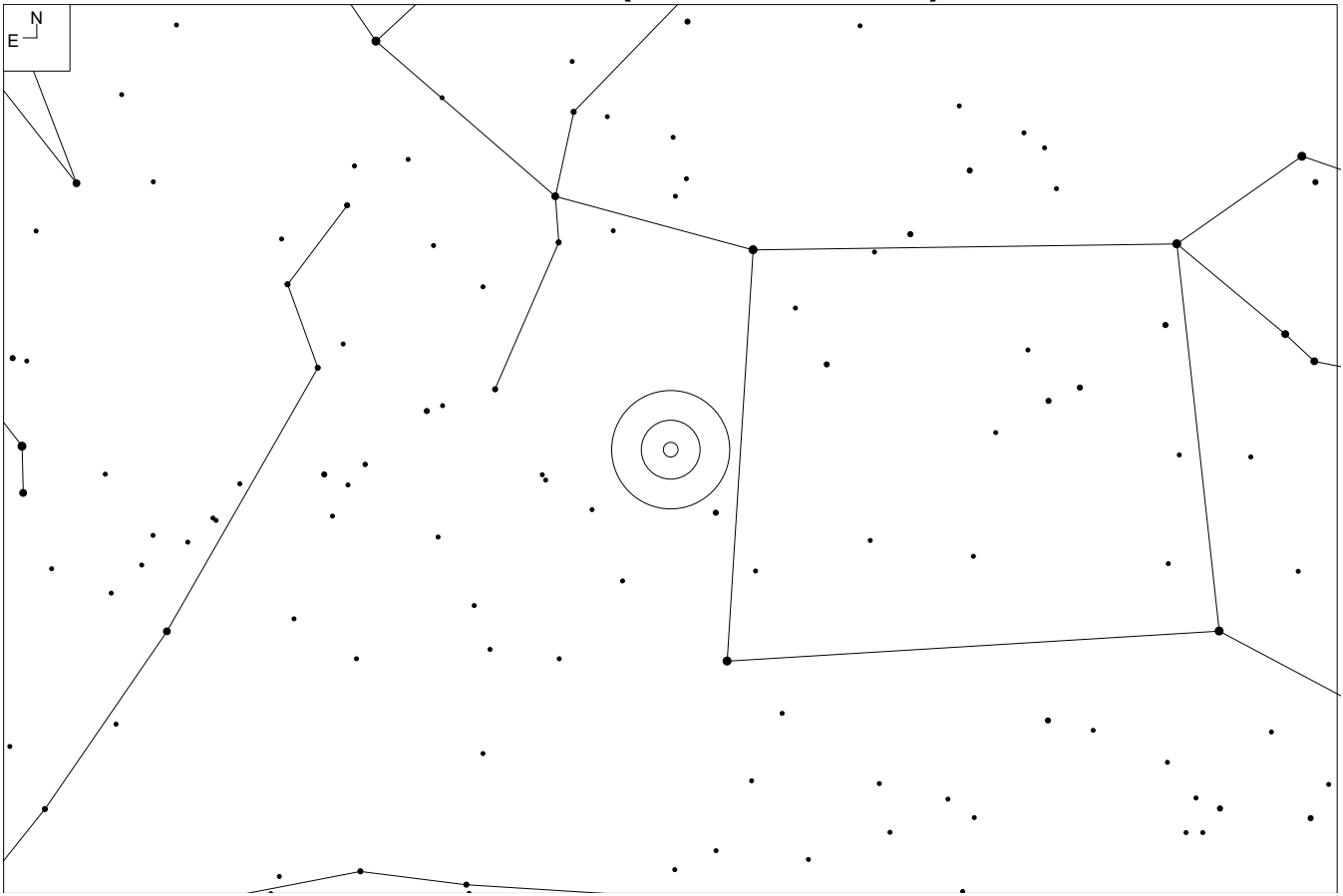
# NGC 68 (Andromeda)



RA	Dec	Mag <sub>1</sub>	# of galaxies
00 18 18.5	+30 04 18	12.9	16

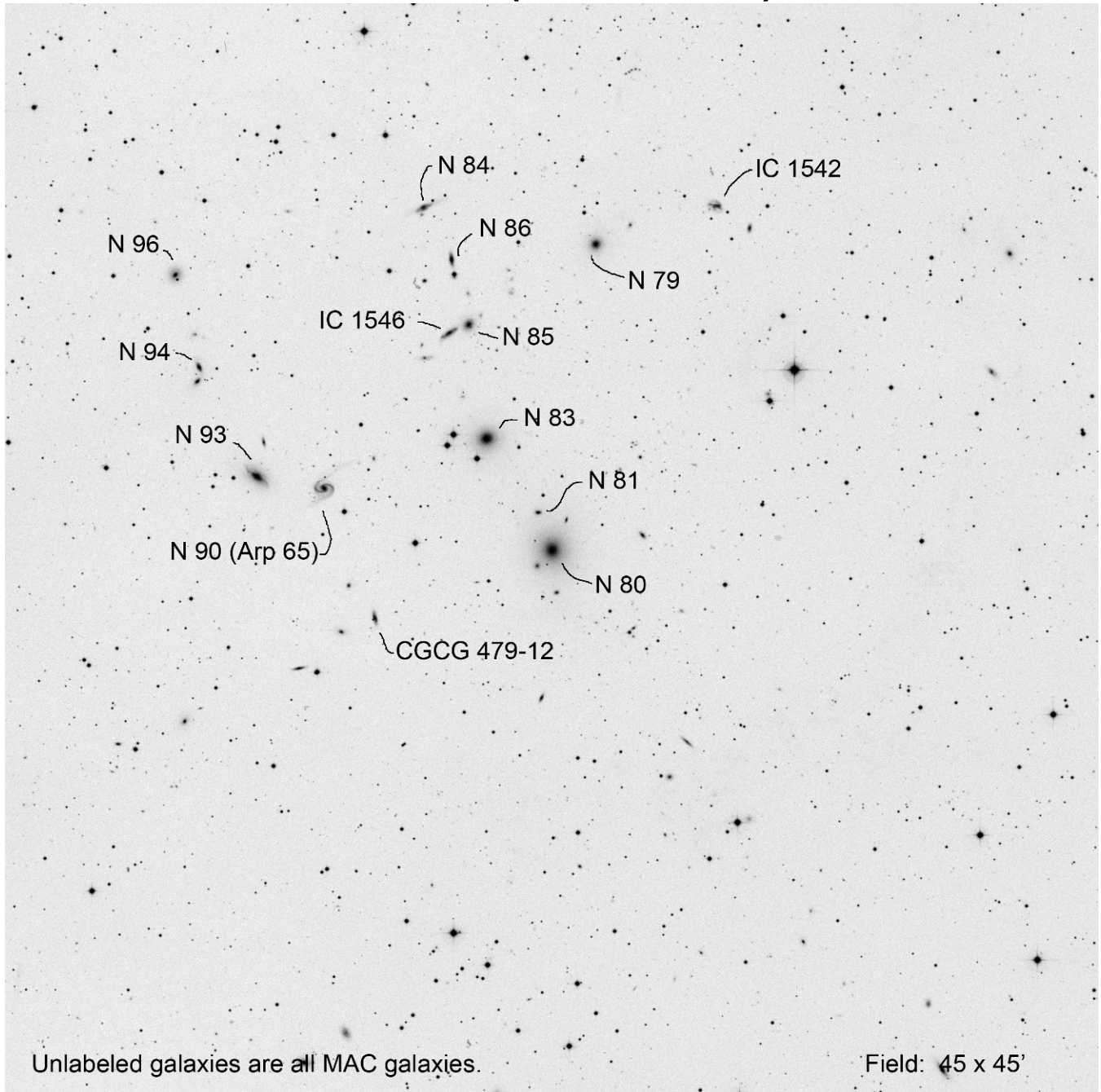
Includes Arp 113

# NGC 80 (Andromeda)





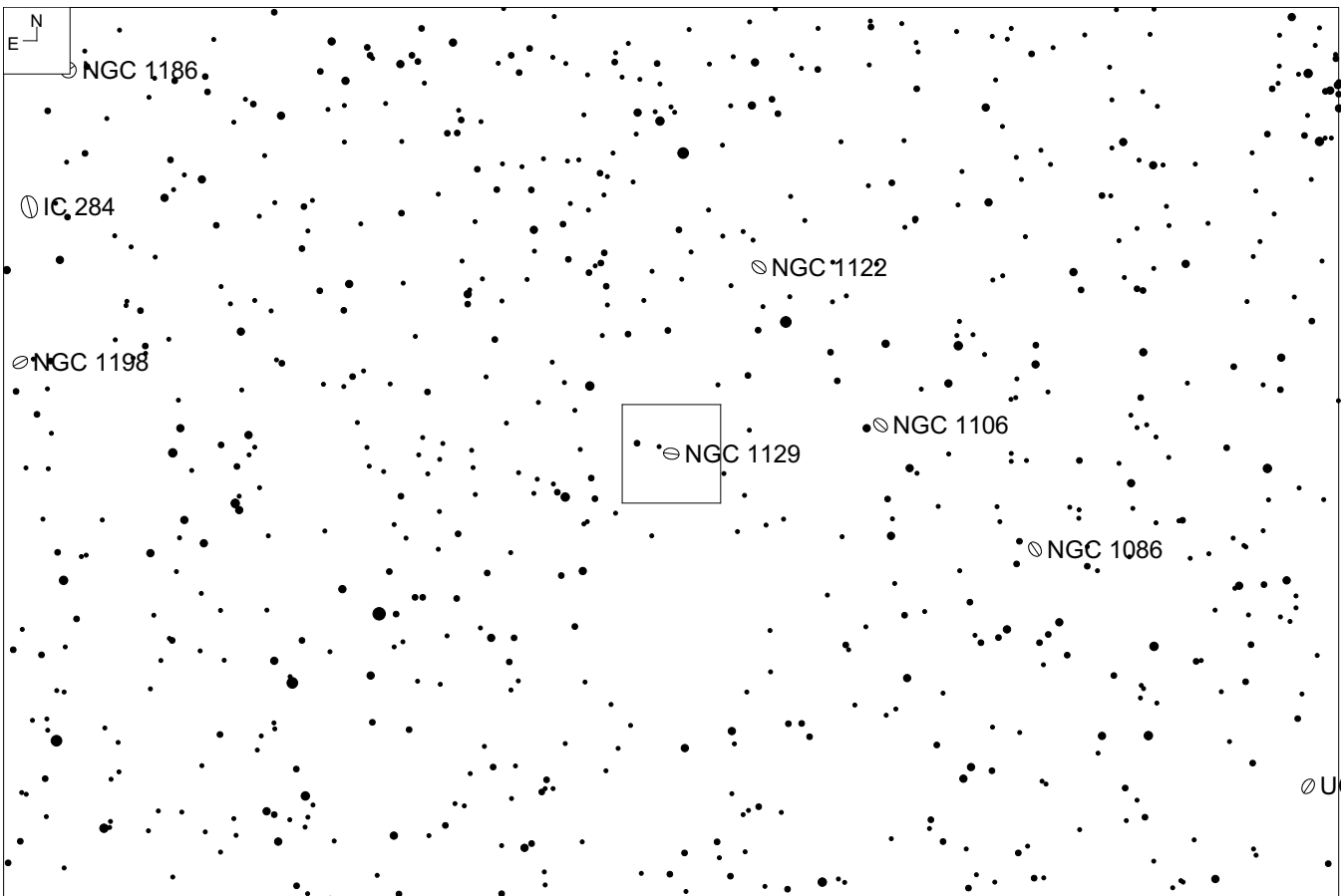
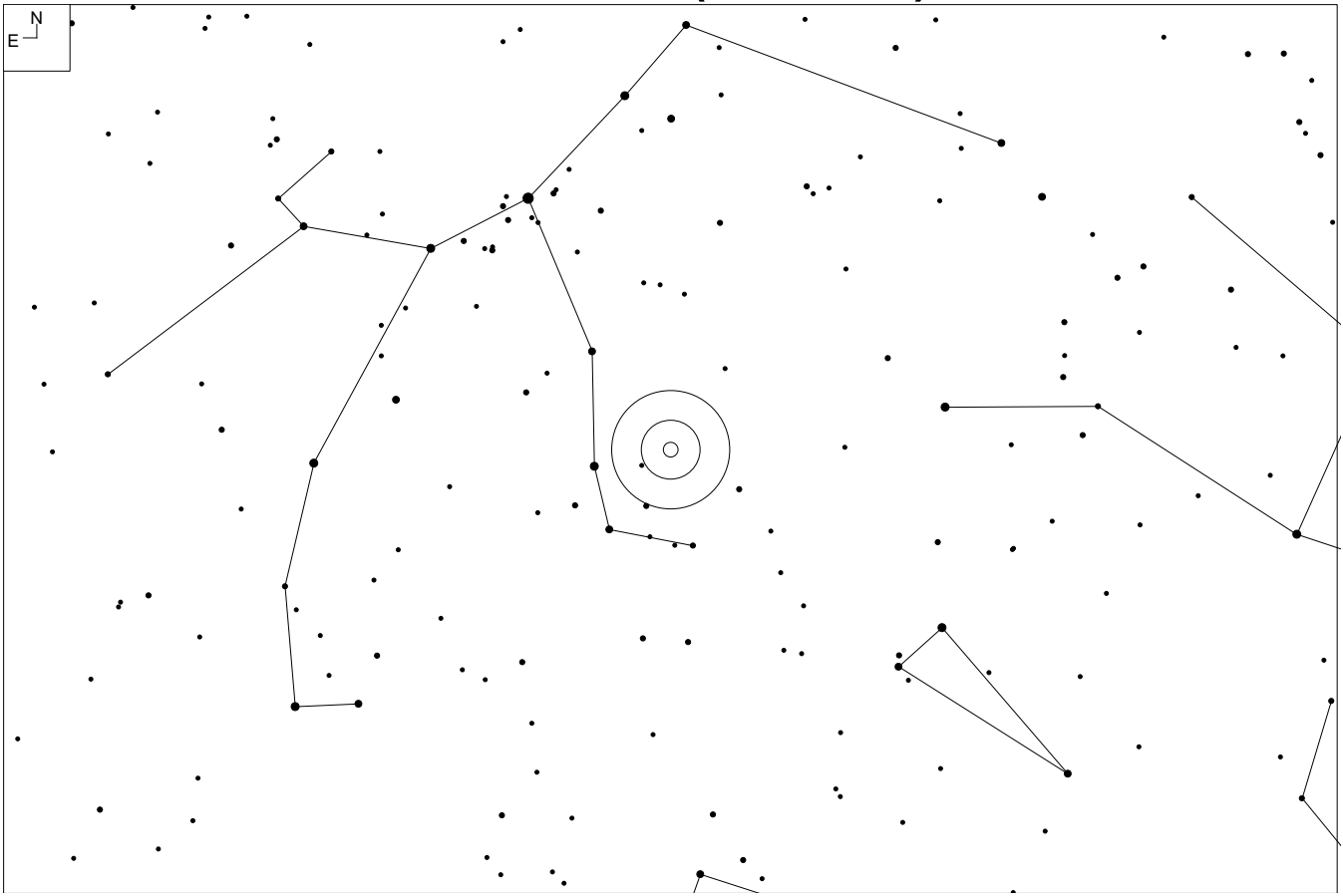
# NGC 80 (Andromeda)



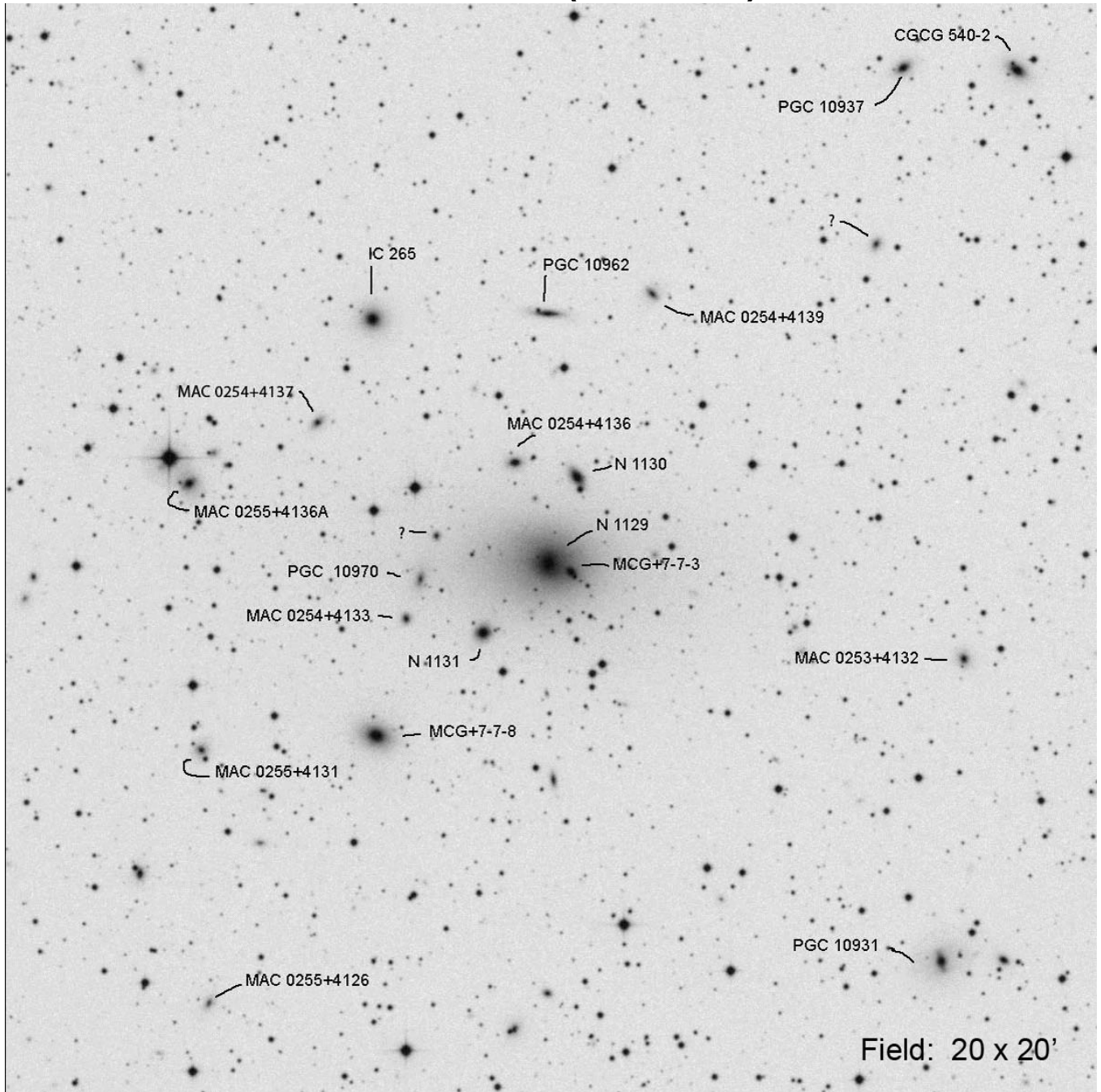
RA	Dec	Mag <sub>1</sub>	# of galaxies
00 21 10.9	+22 21 26	12.1	30+

**Includes Arp 65**

# NGC 1129 (Perseus)

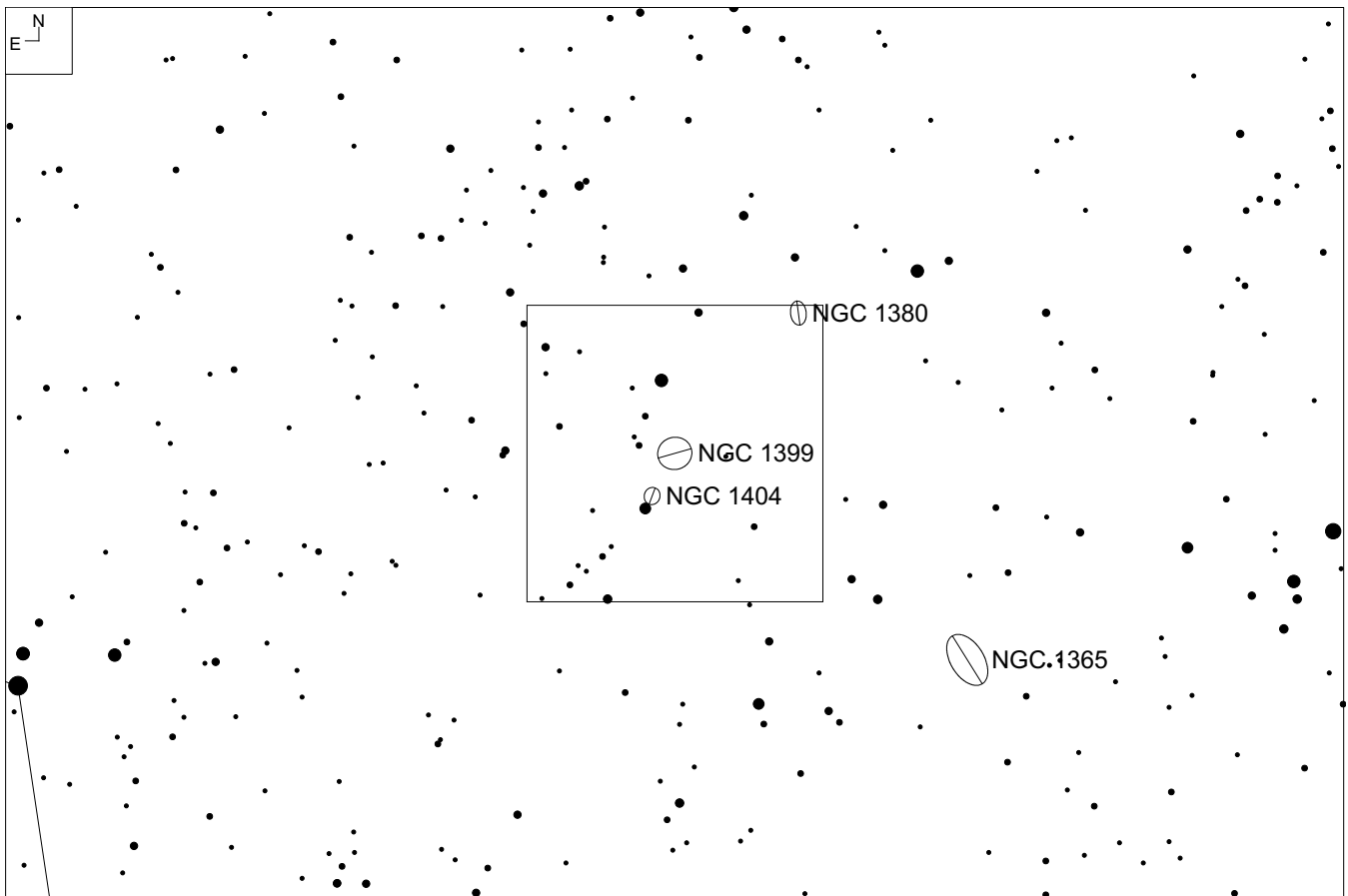
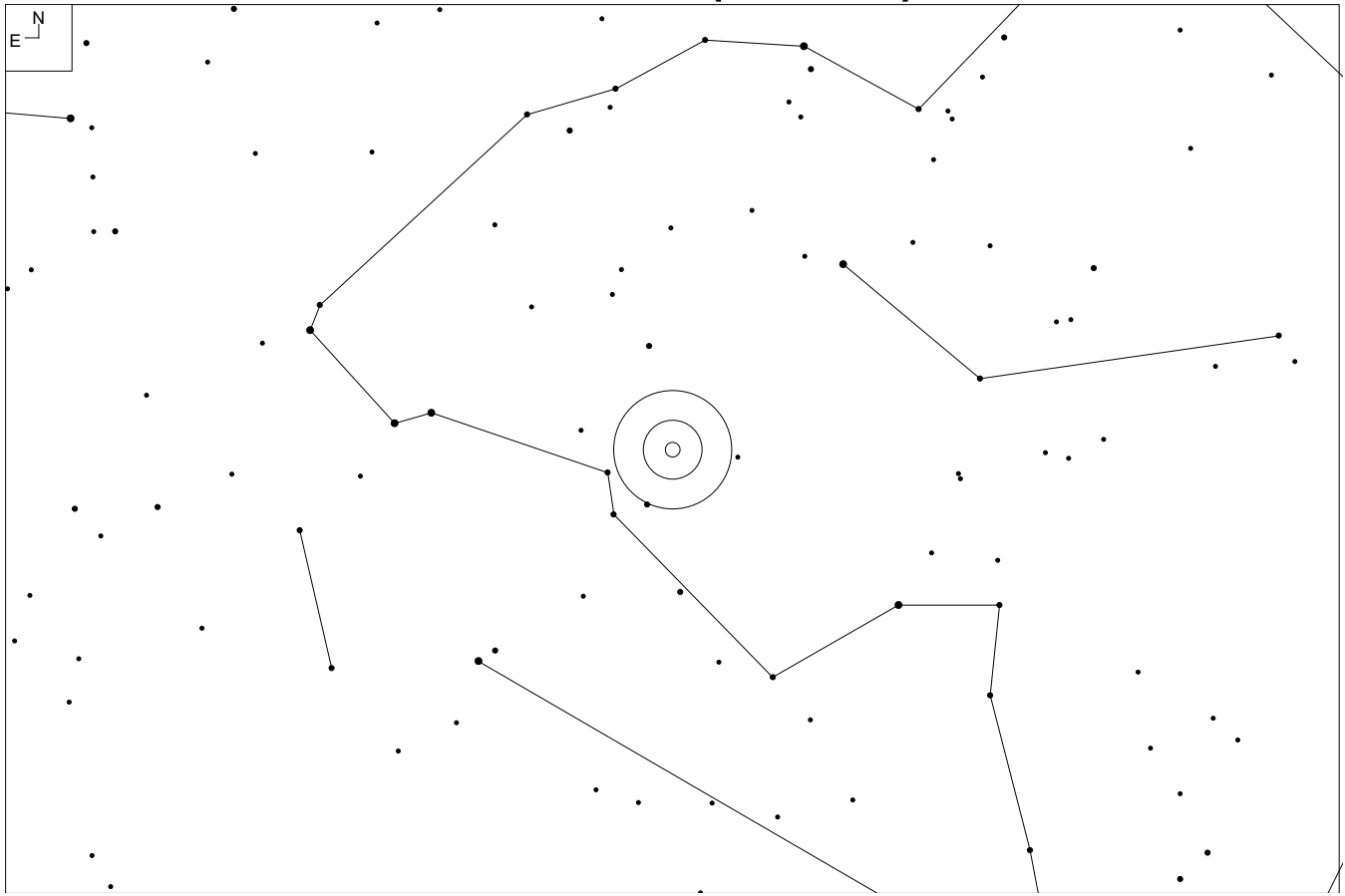


# NGC 1129 (Perseus)

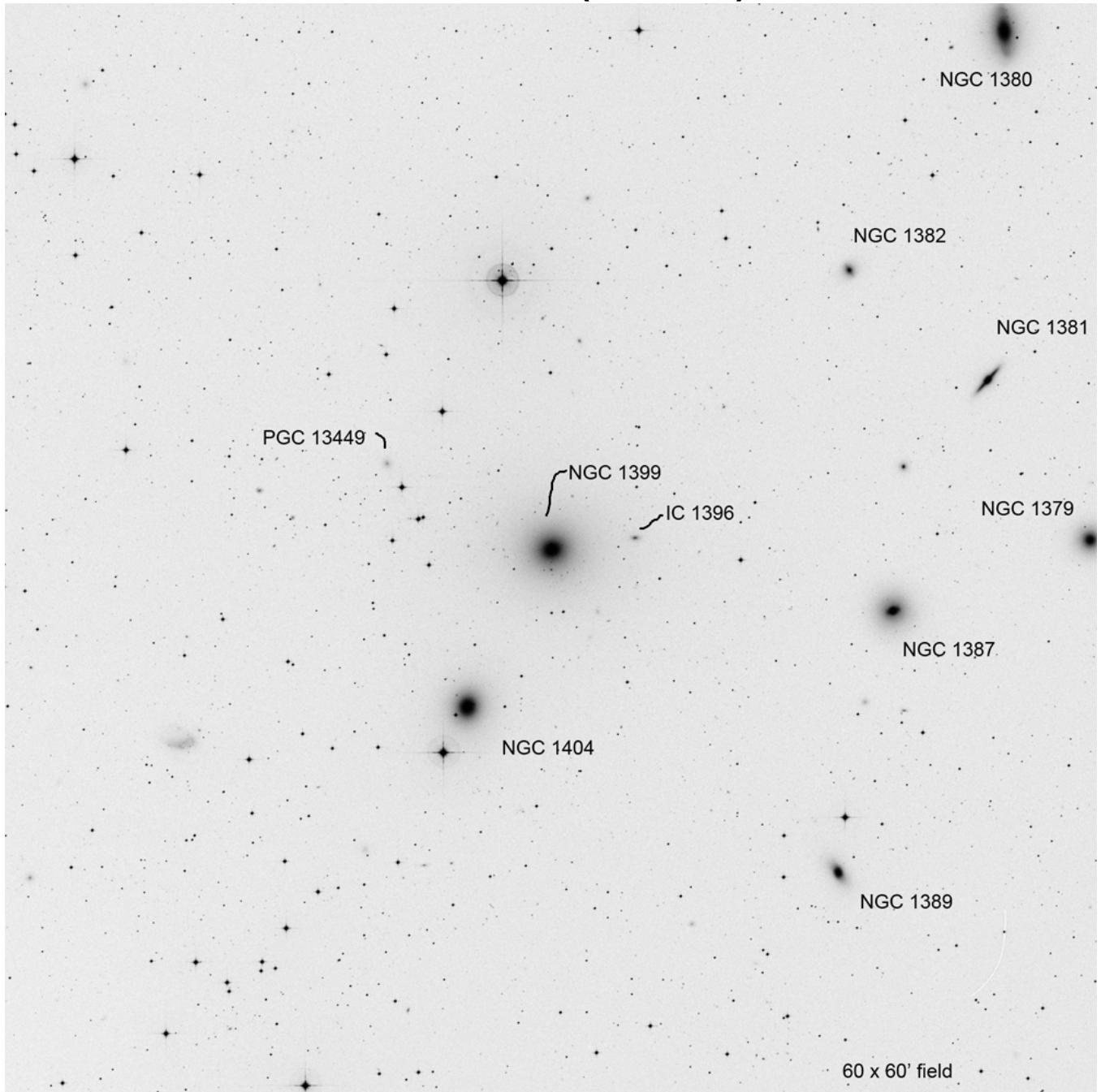


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AWM 7	02 54 27.1	+41 34 45	12.5	7+

# NGC 1399 (Fornax)



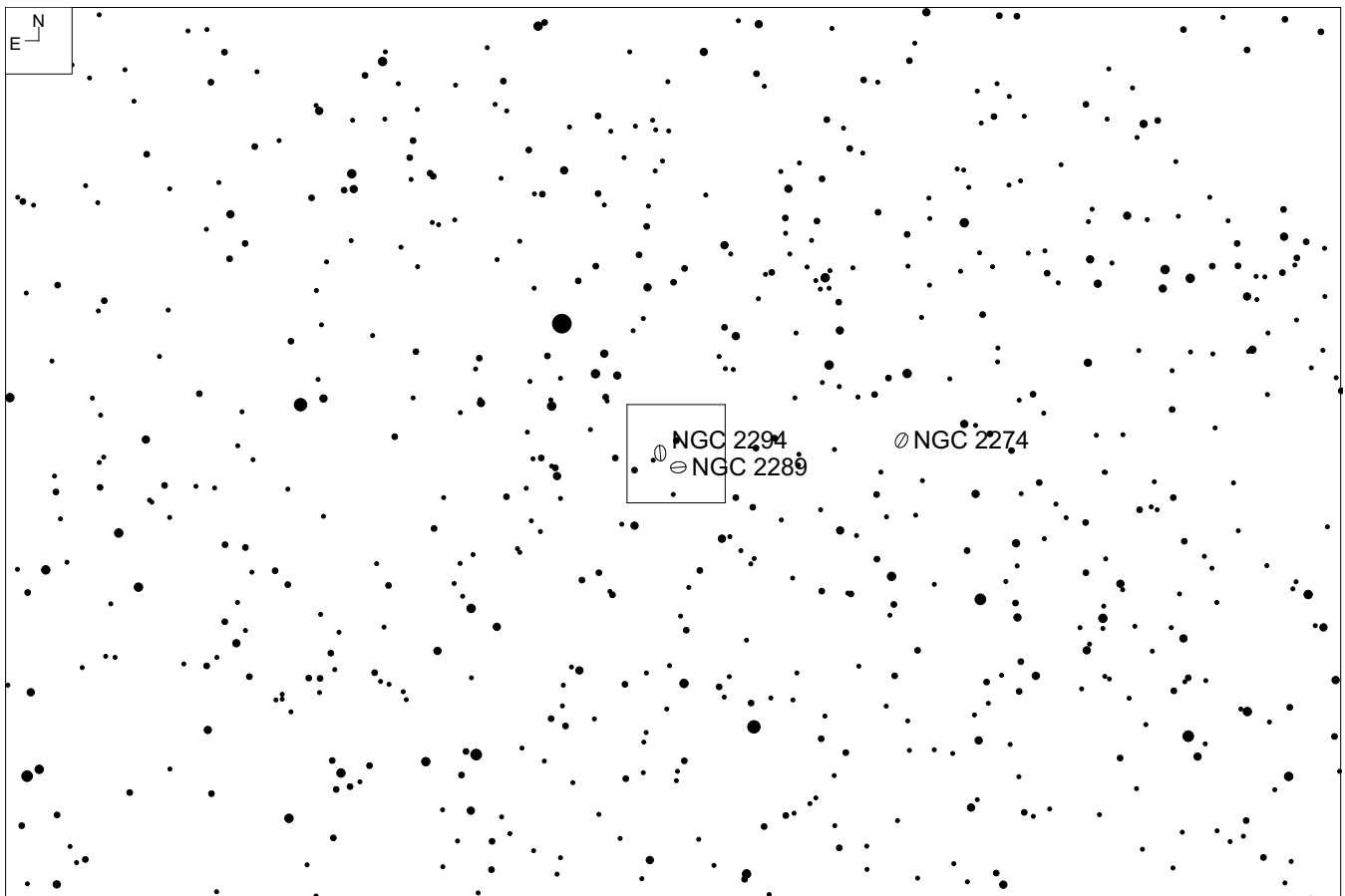
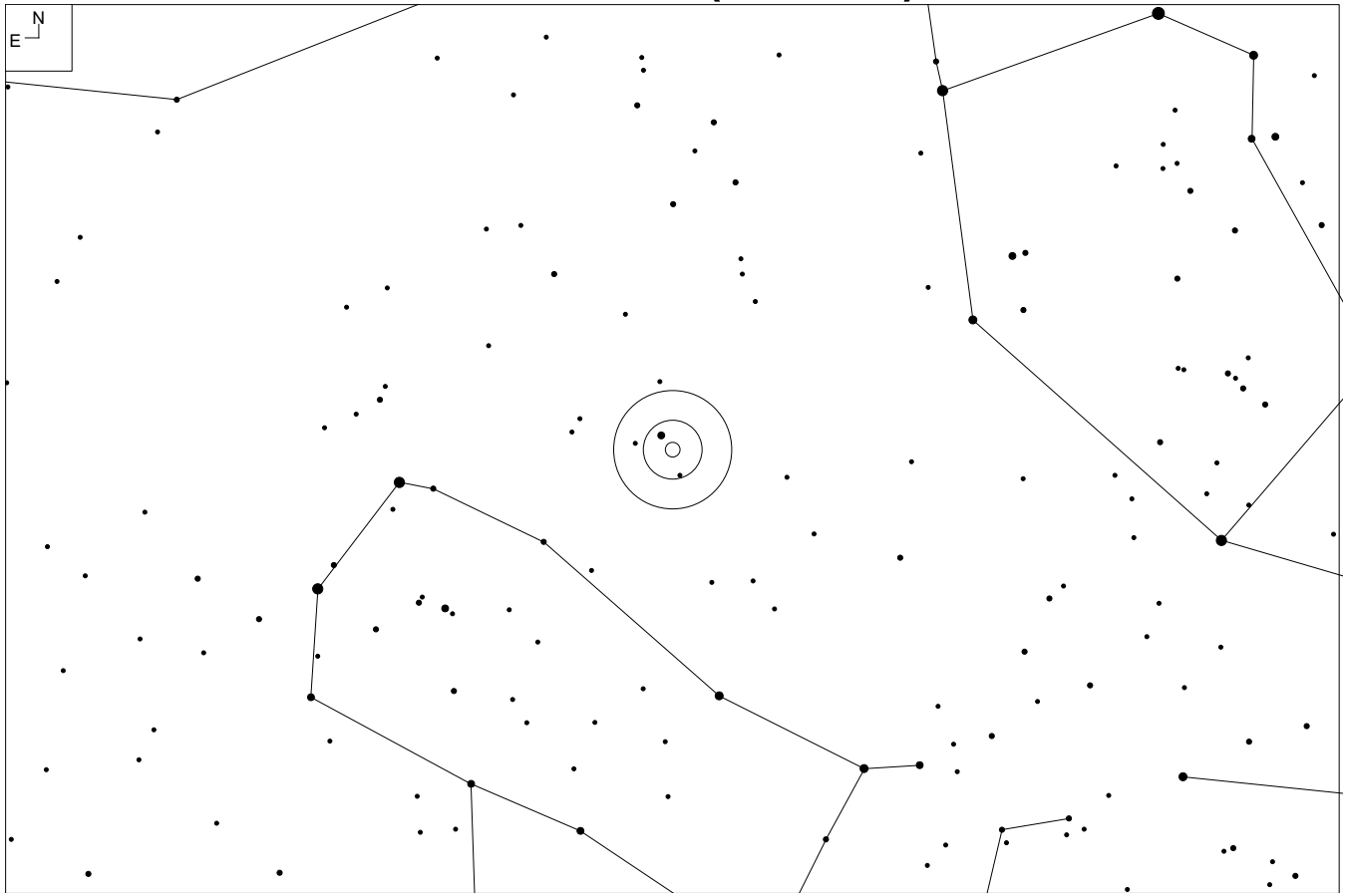
# NGC 1399 (Fornax)



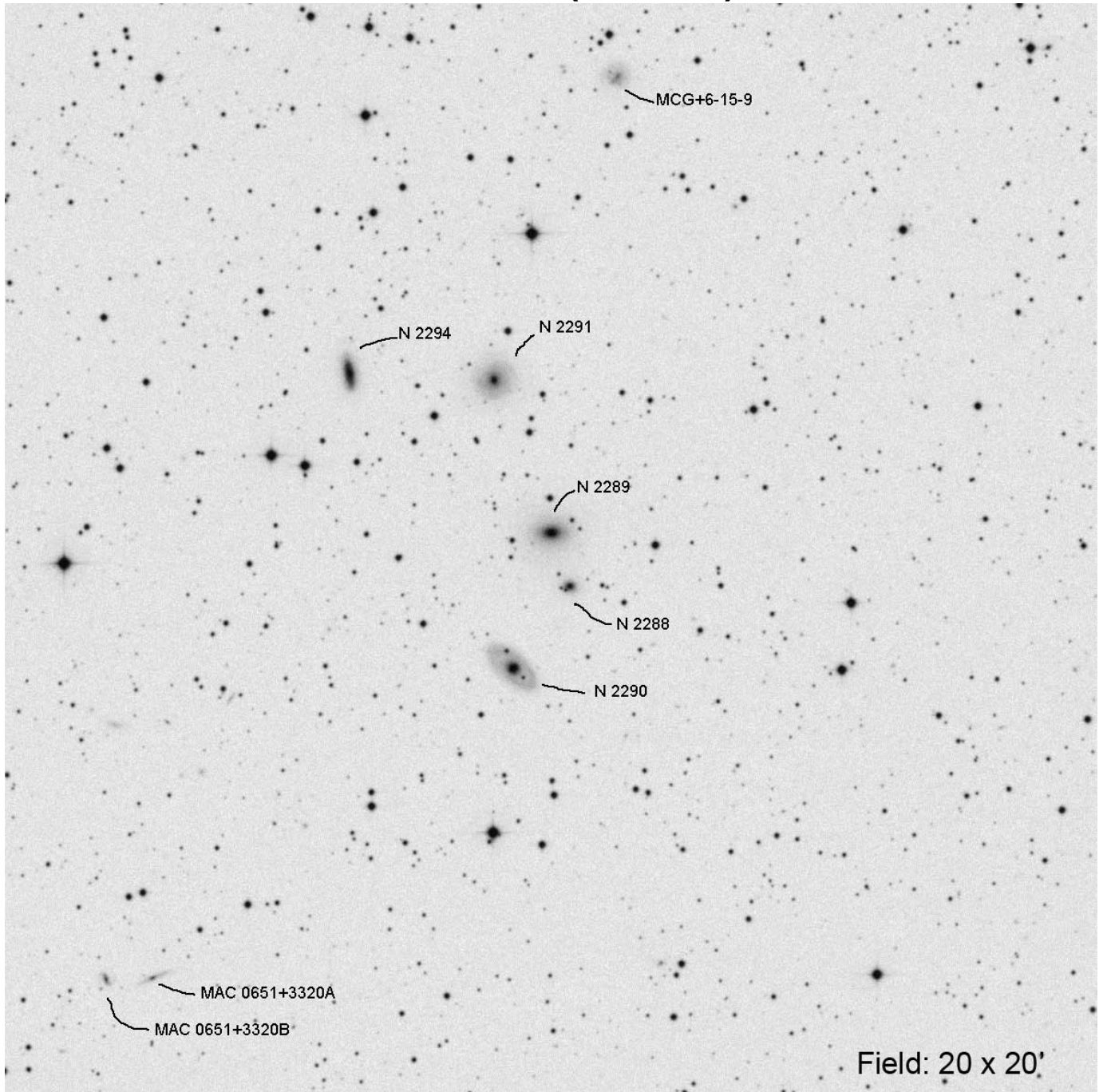
Center of Abell Galaxy Cluster 373

RA	Dec	Mag1	# of galaxies
03 38 29.0	-35 26 58	10.6	Many

# NGC 2289 (Gemini)

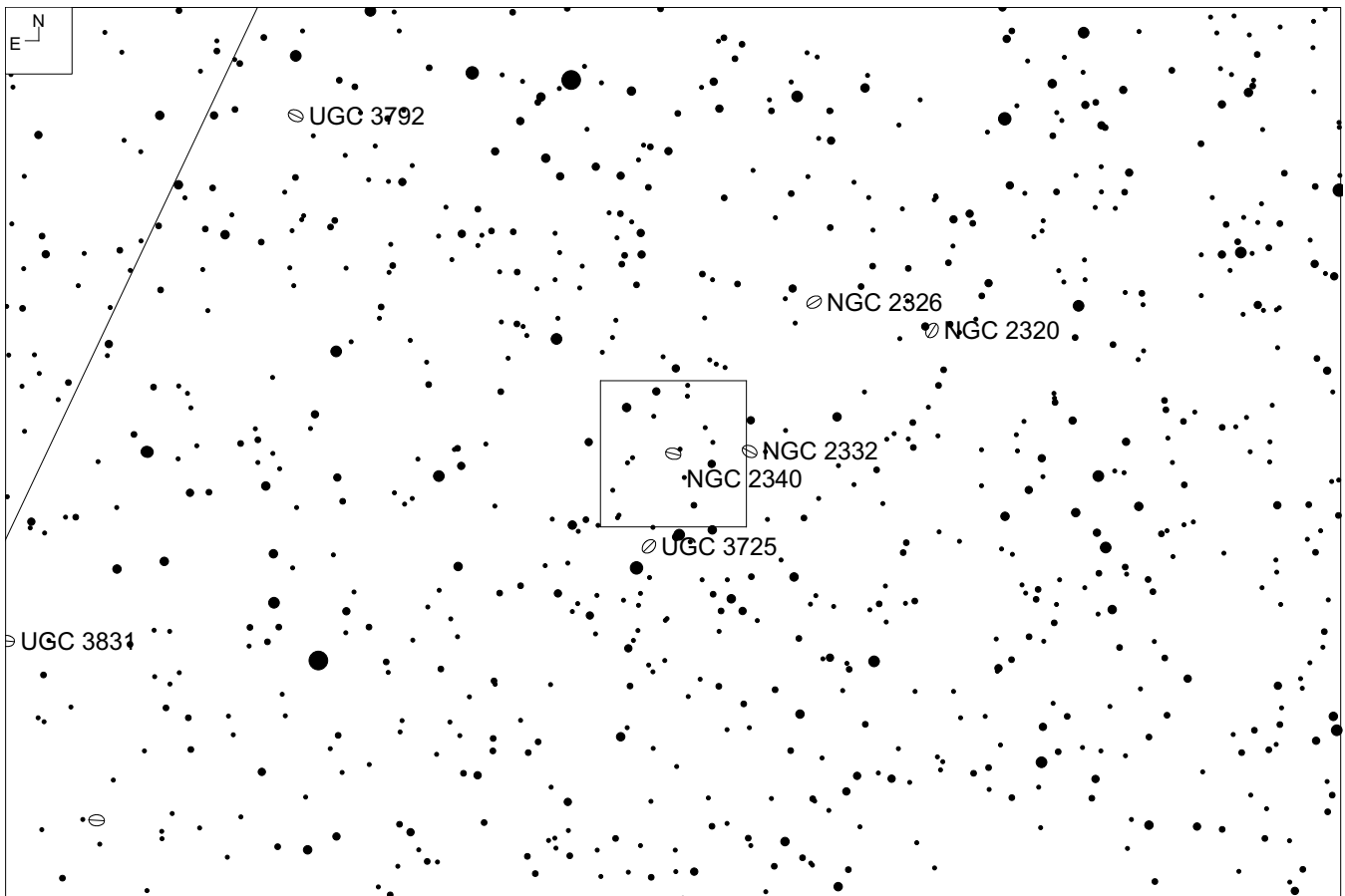
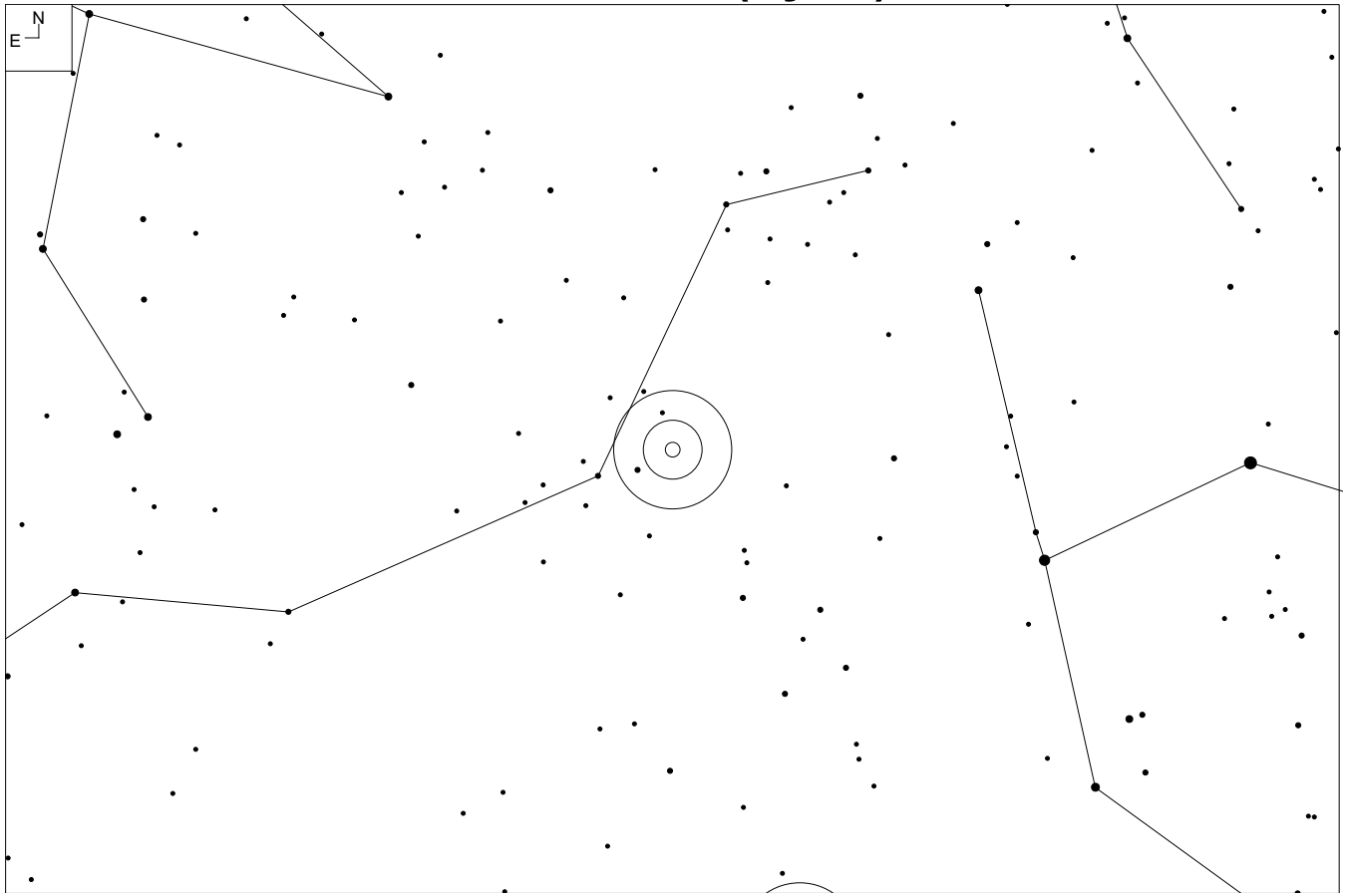


# NGC 2289 (Gemini)



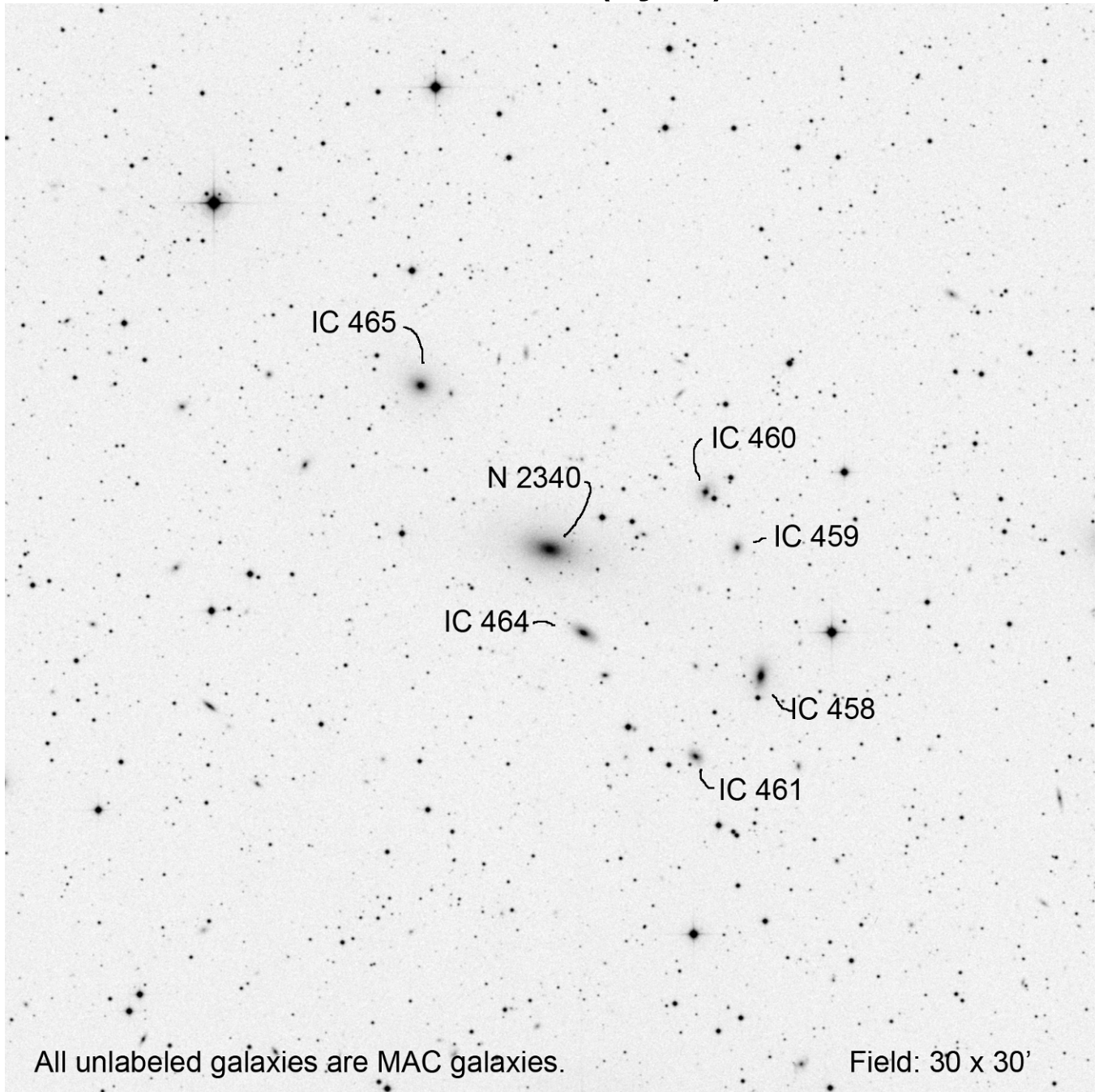
RA	Dec	Mag <sub>1</sub>	# of galaxies
06 50 53.6	+33 28 44	13.2	5

# NGC 2340 (Lynx)



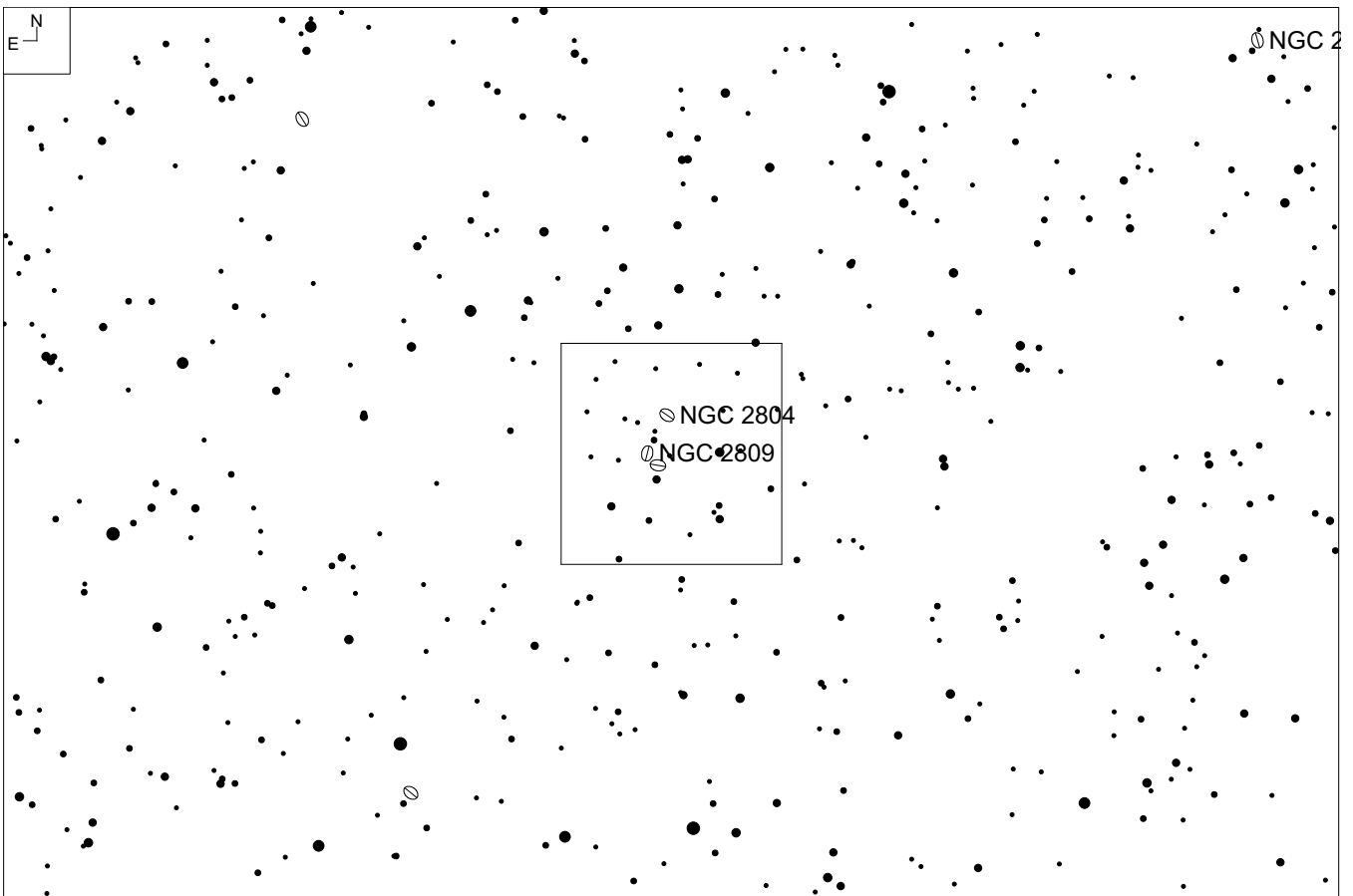
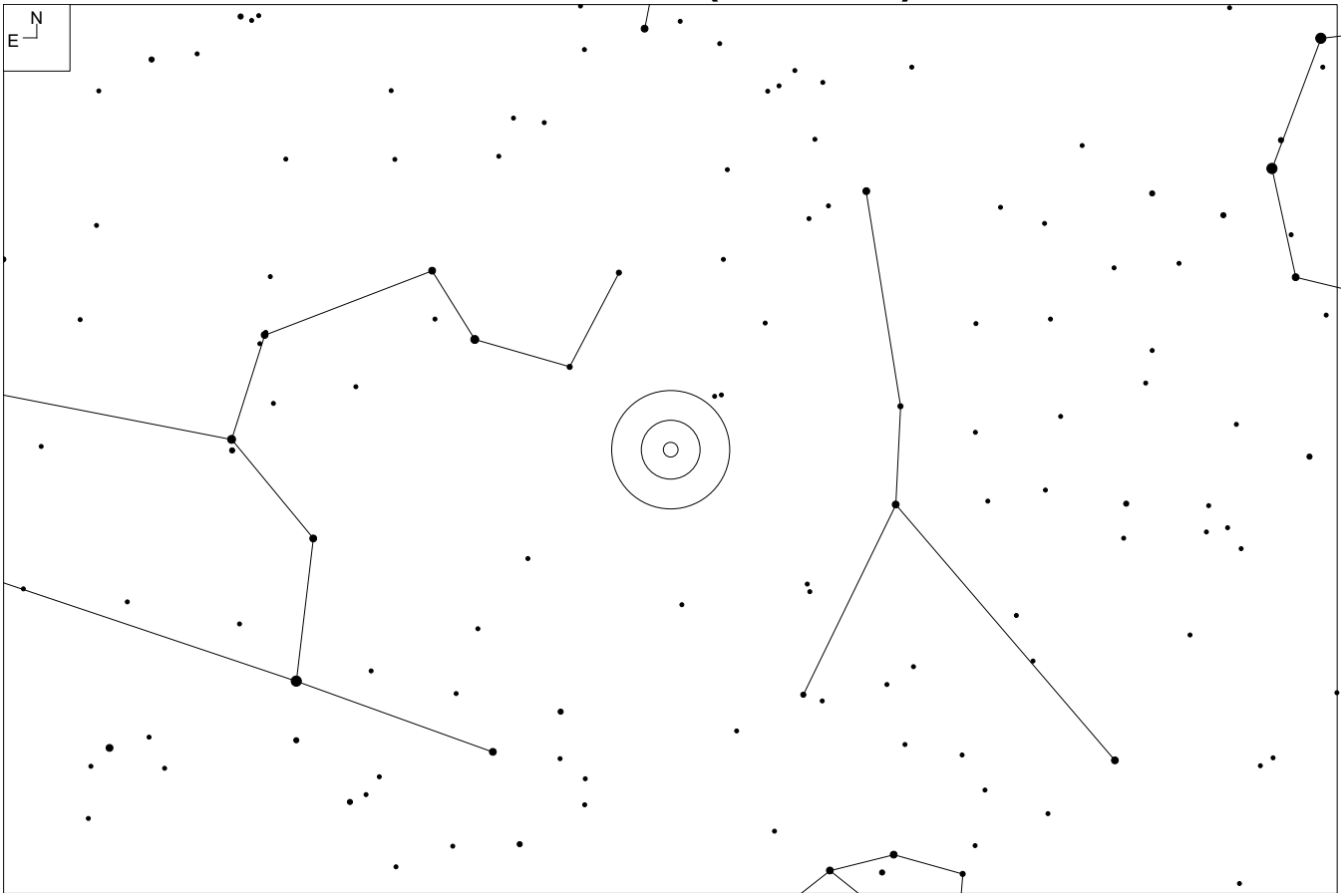


# NGC 2340 (Lynx)

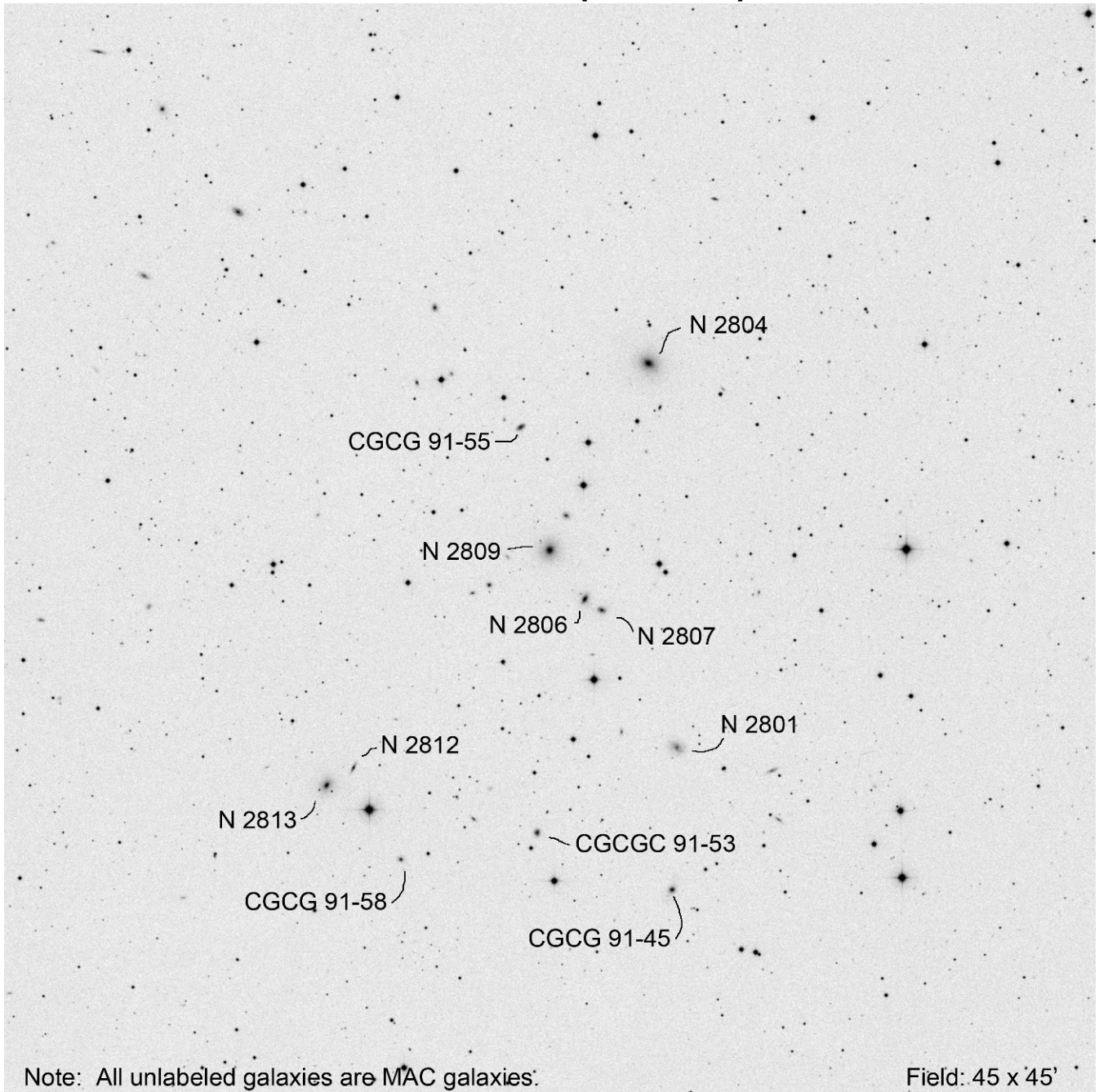


RA	Dec	Mag <sub>1</sub>	# of galaxies
07 11 10.7	+50 10 27	11.7	9

# NGC 2804 (Cancer)



# NGC 2804 (Cancer)

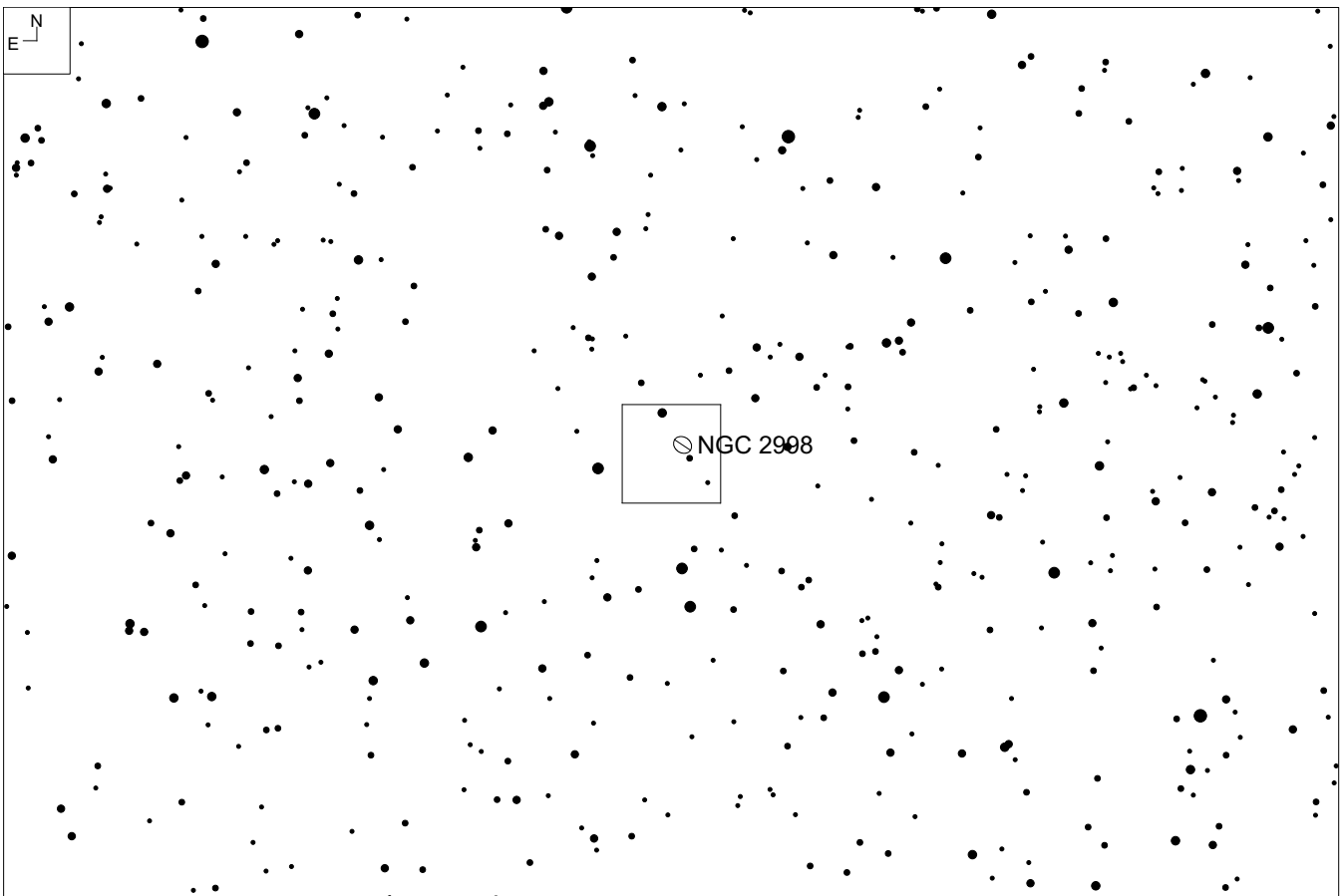
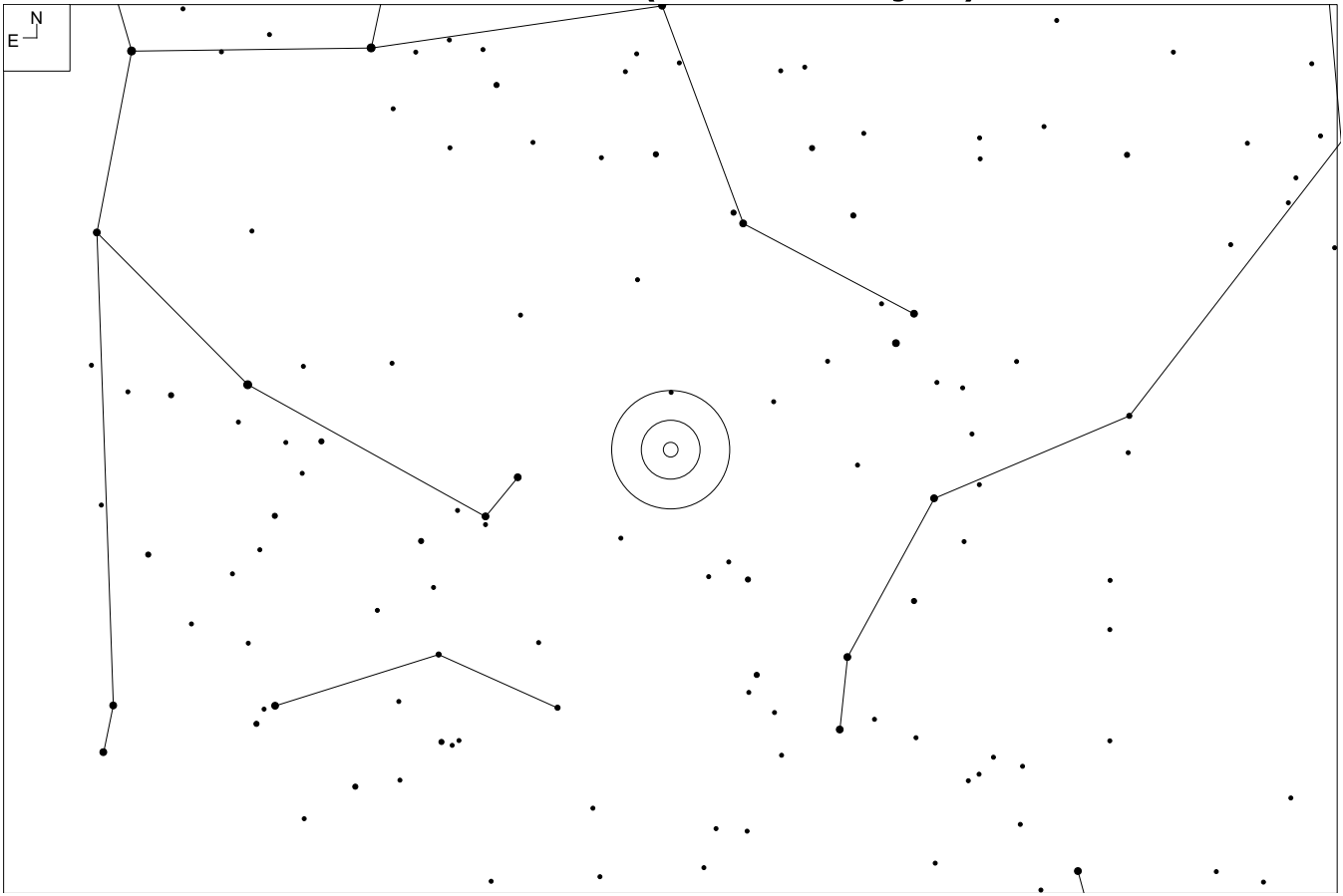


Note: All unlabeled galaxies are MAC galaxies:

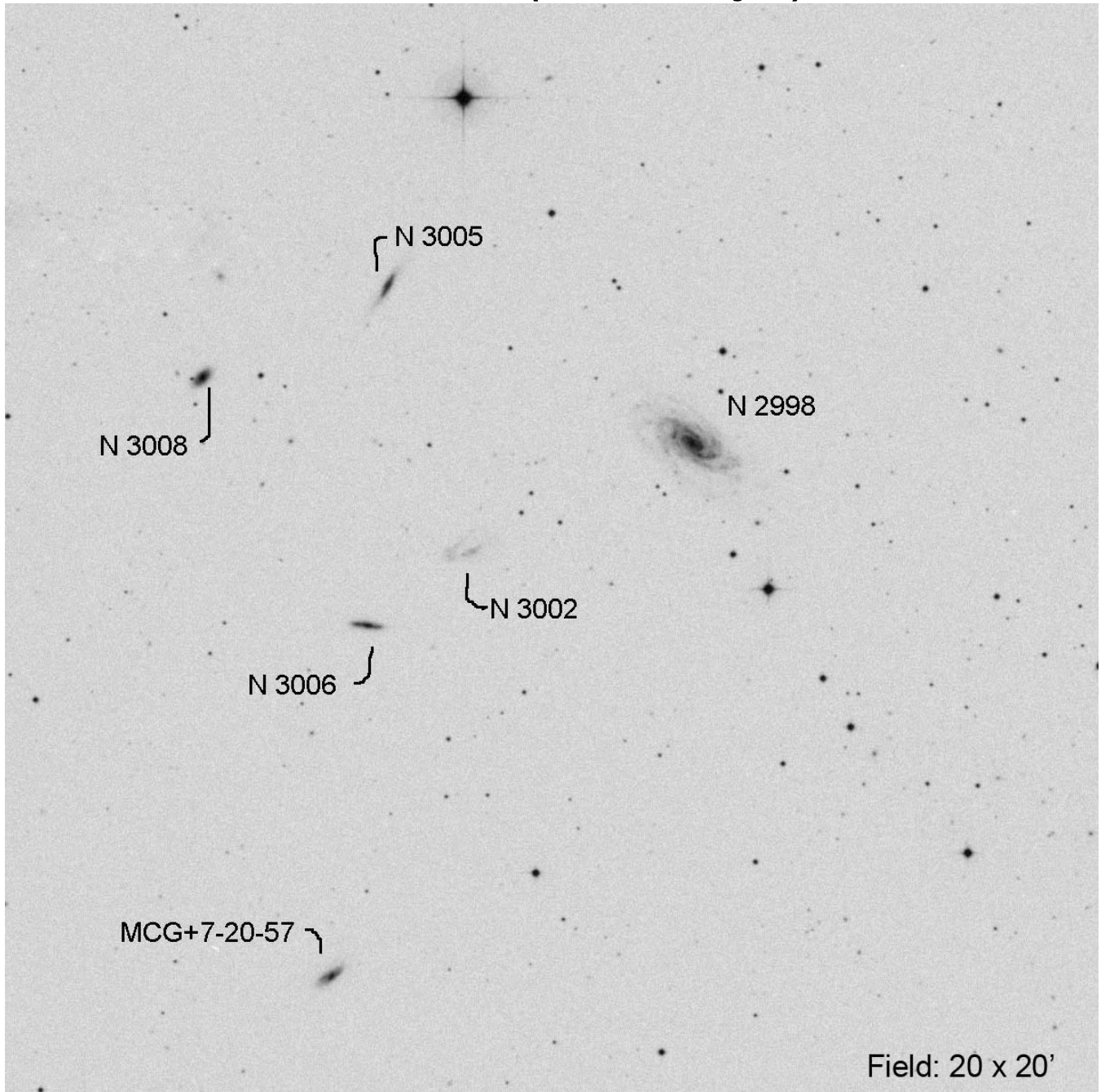
Field: 45 x 45'

Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AWM 1	09 16 50.0	+20 11 54	12.8	10+

# NGC 2998 (URSA Major)

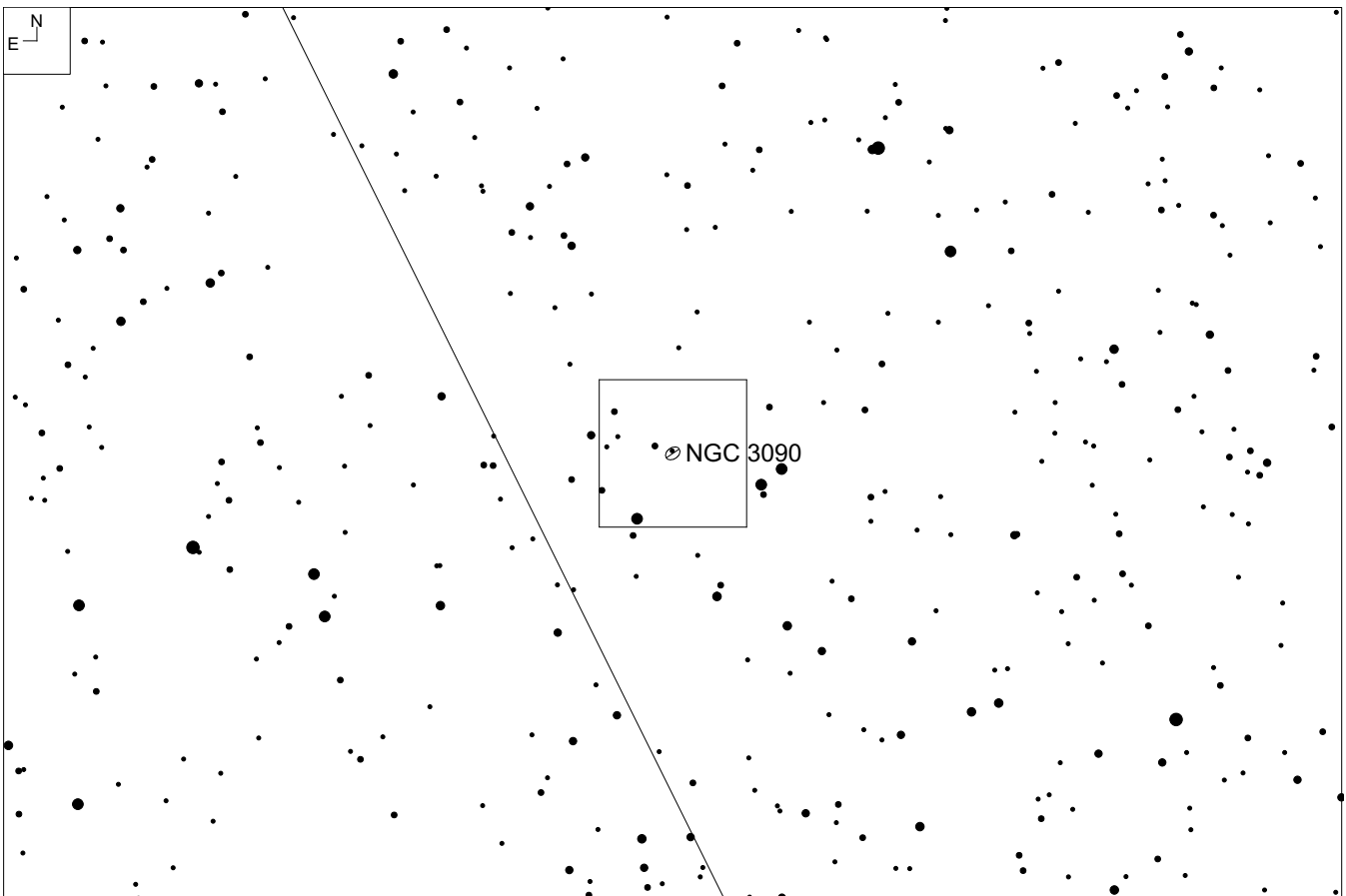
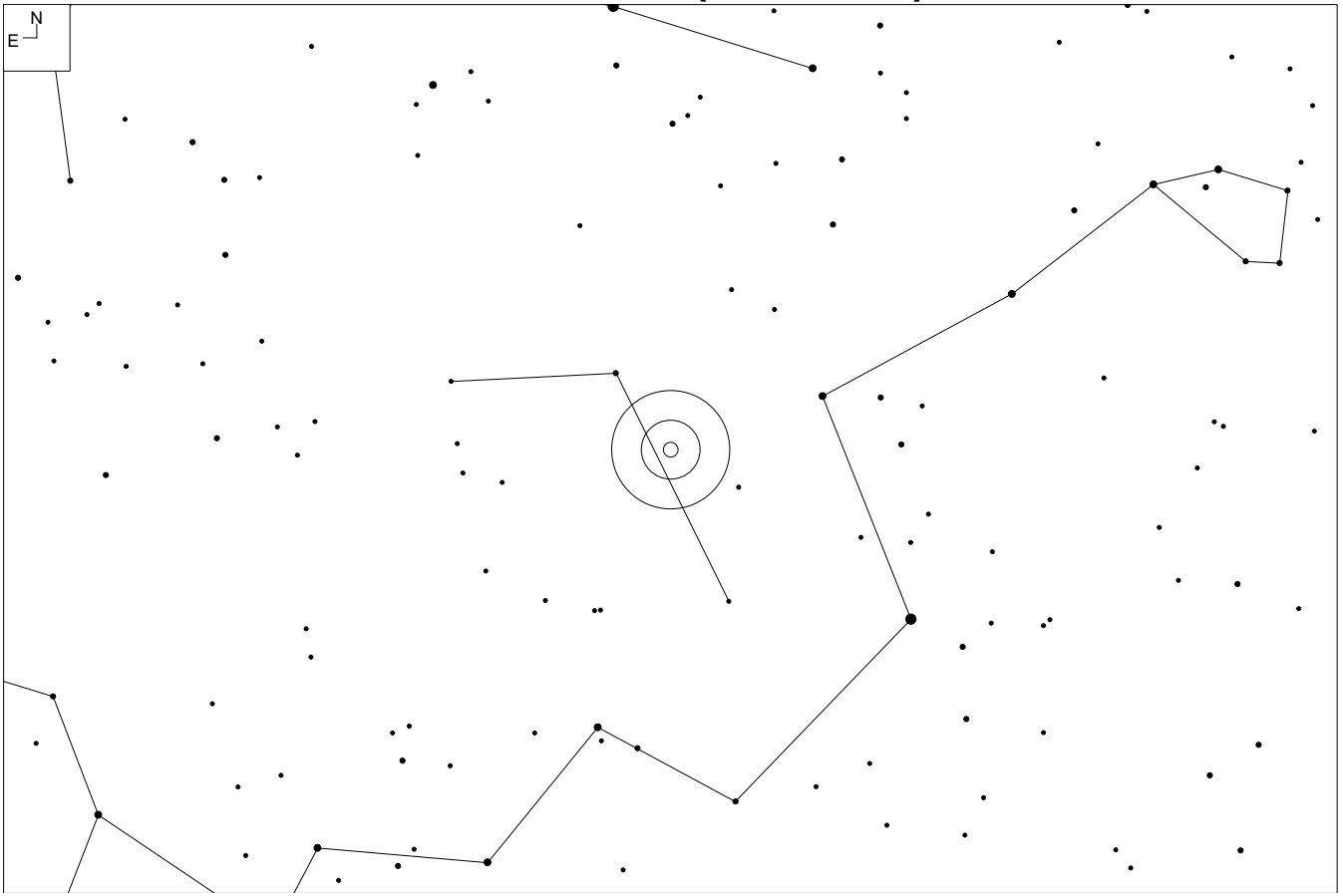


# NGC 2998 (URSA Major)

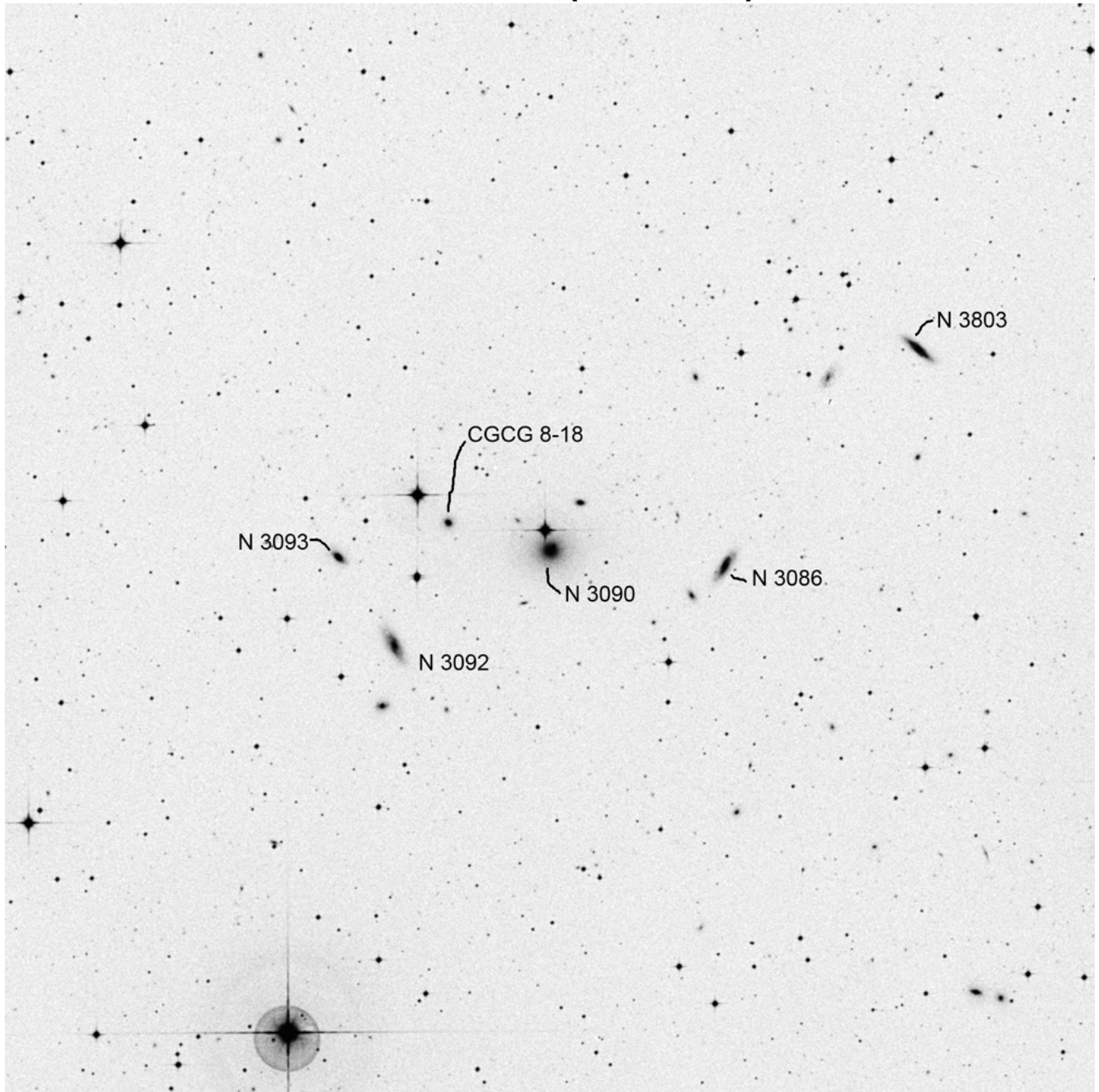


RA	Dec	Mag <sub>1</sub>	# of galaxies
09 48 43.7	+44 04 52	12.5	6

# NGC 3090 (Sextans)

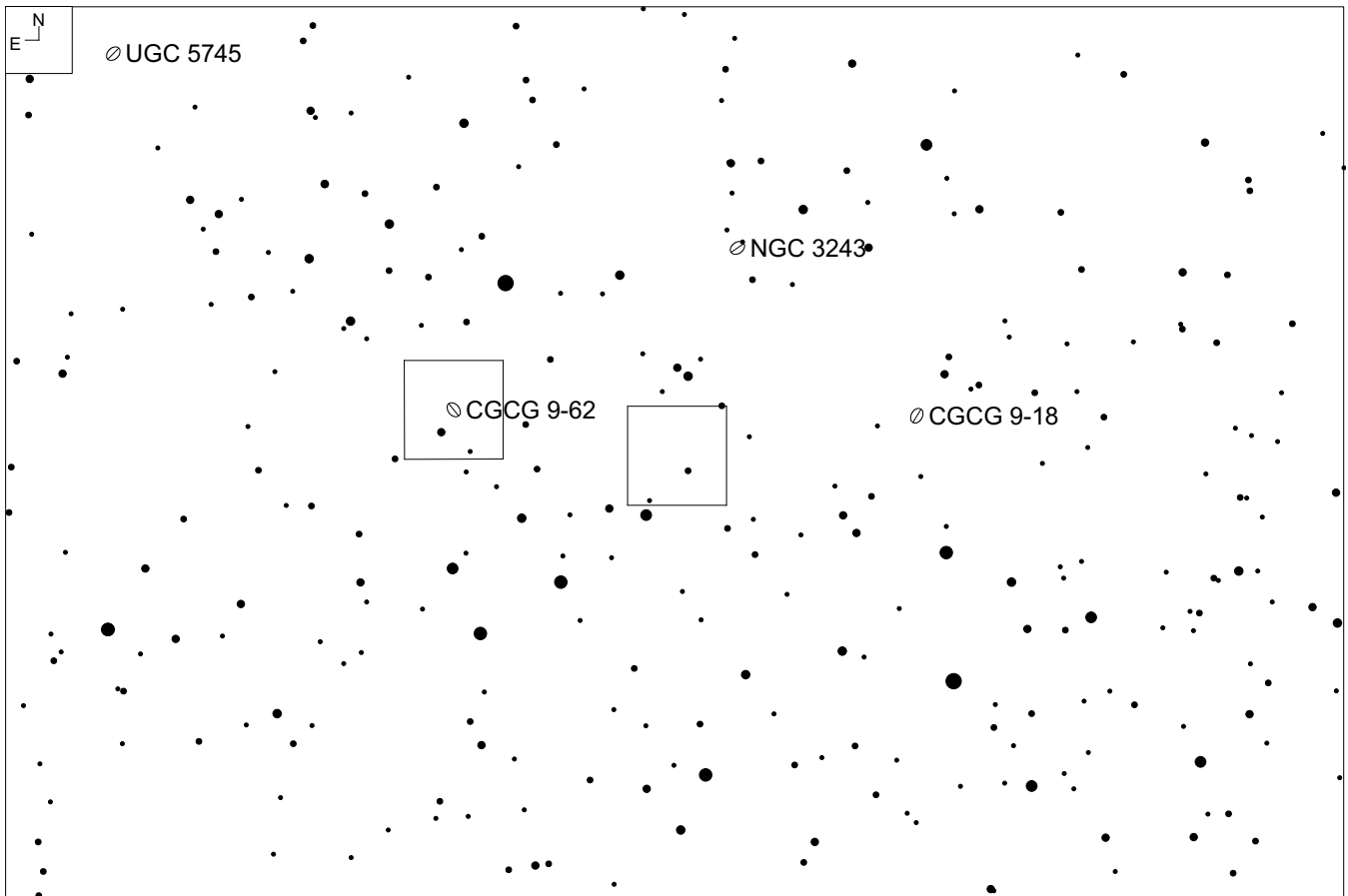
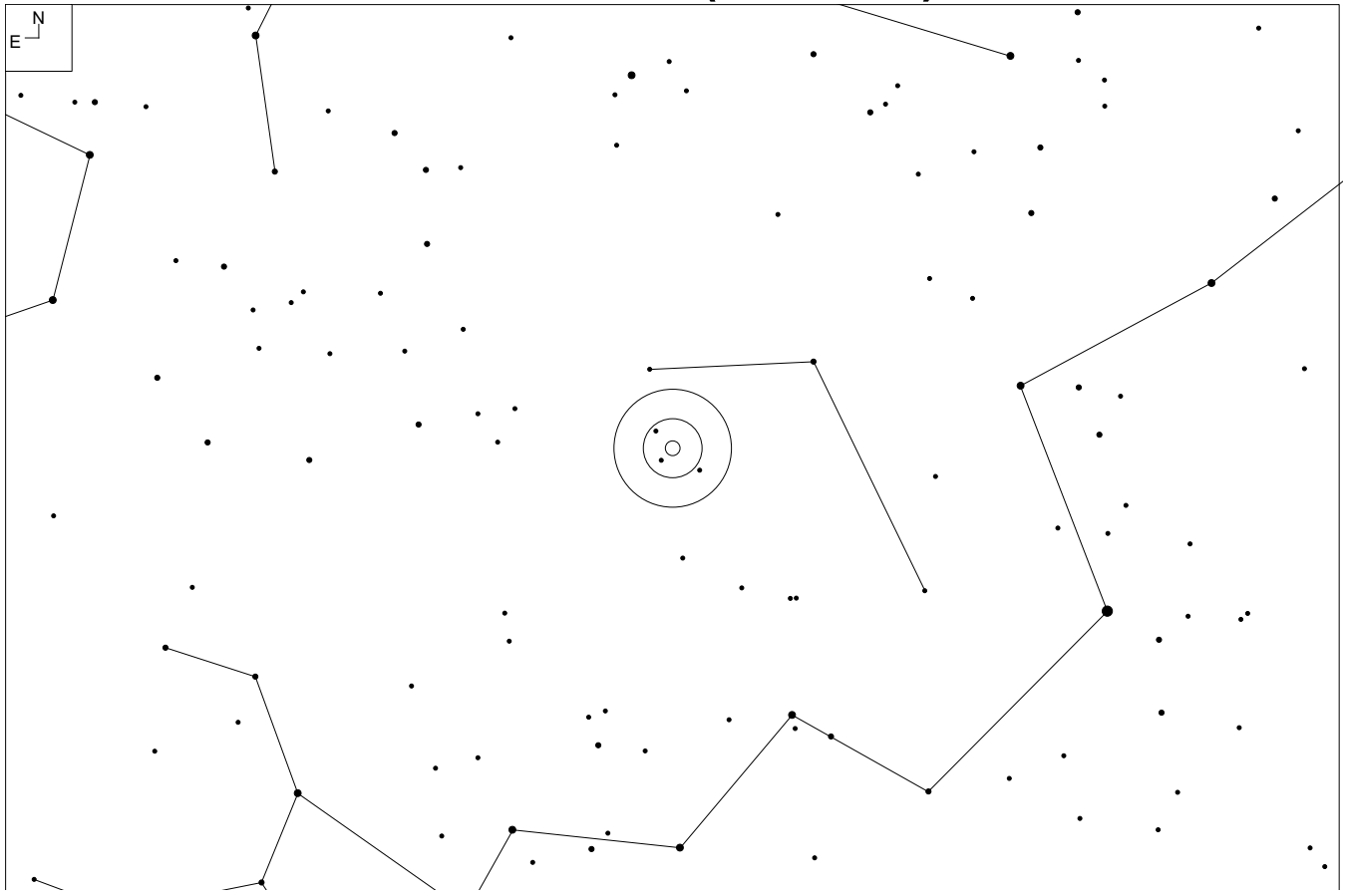


# NGC 3090 (Sextans)



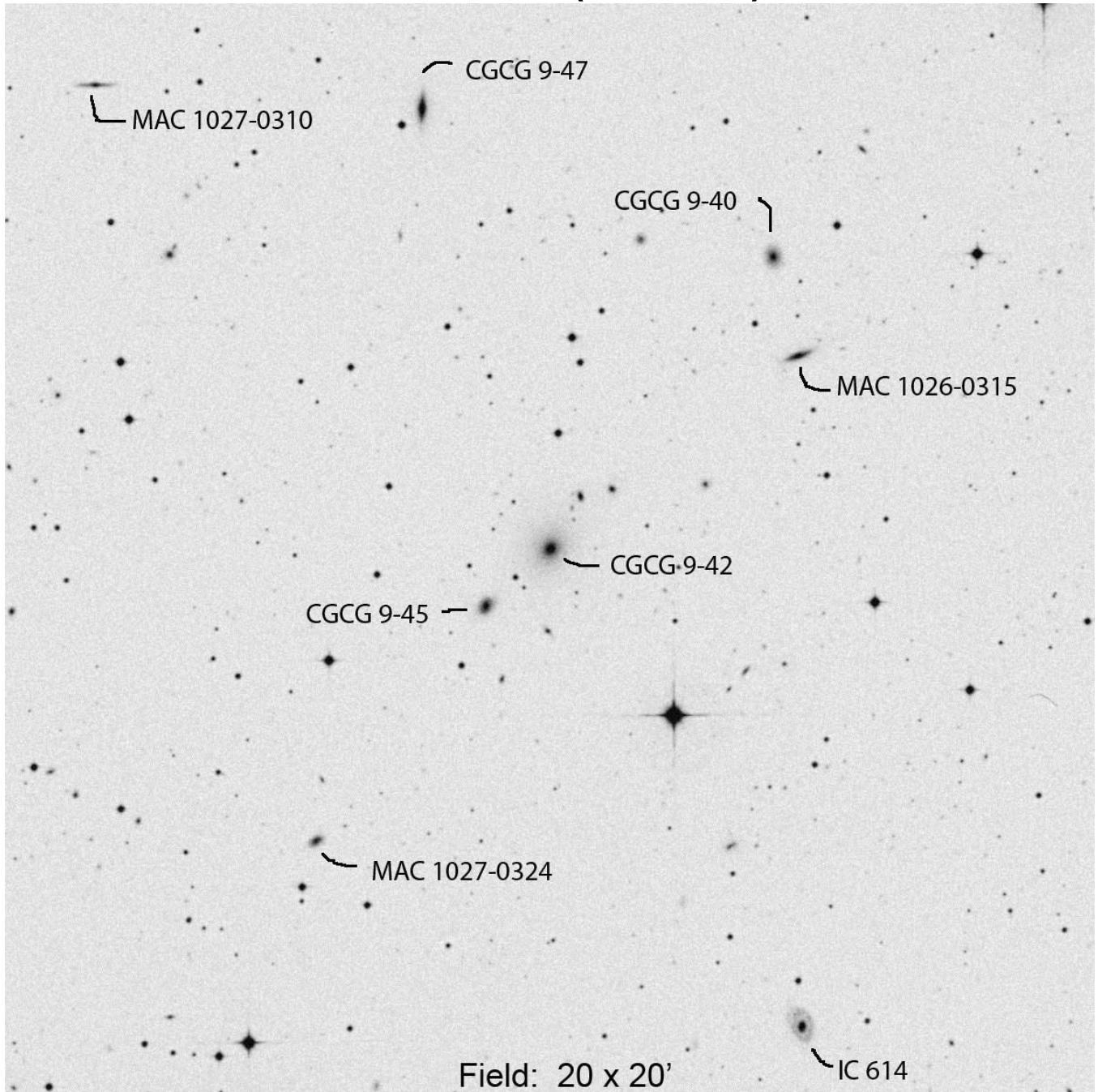
Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 1	10 00 30.2	-02 58 08	13.6	10

# CGCG 9-42 (Sextans)



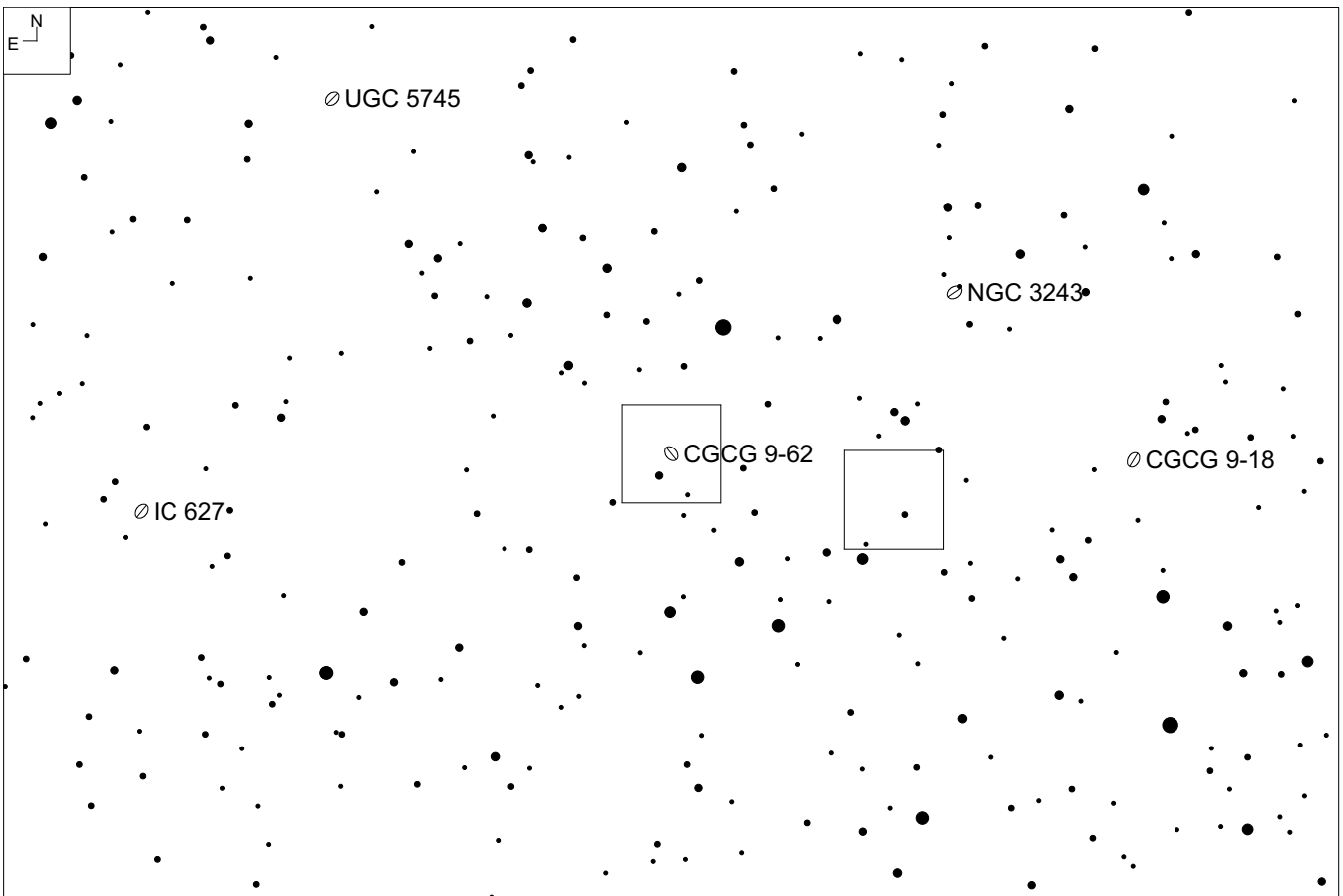
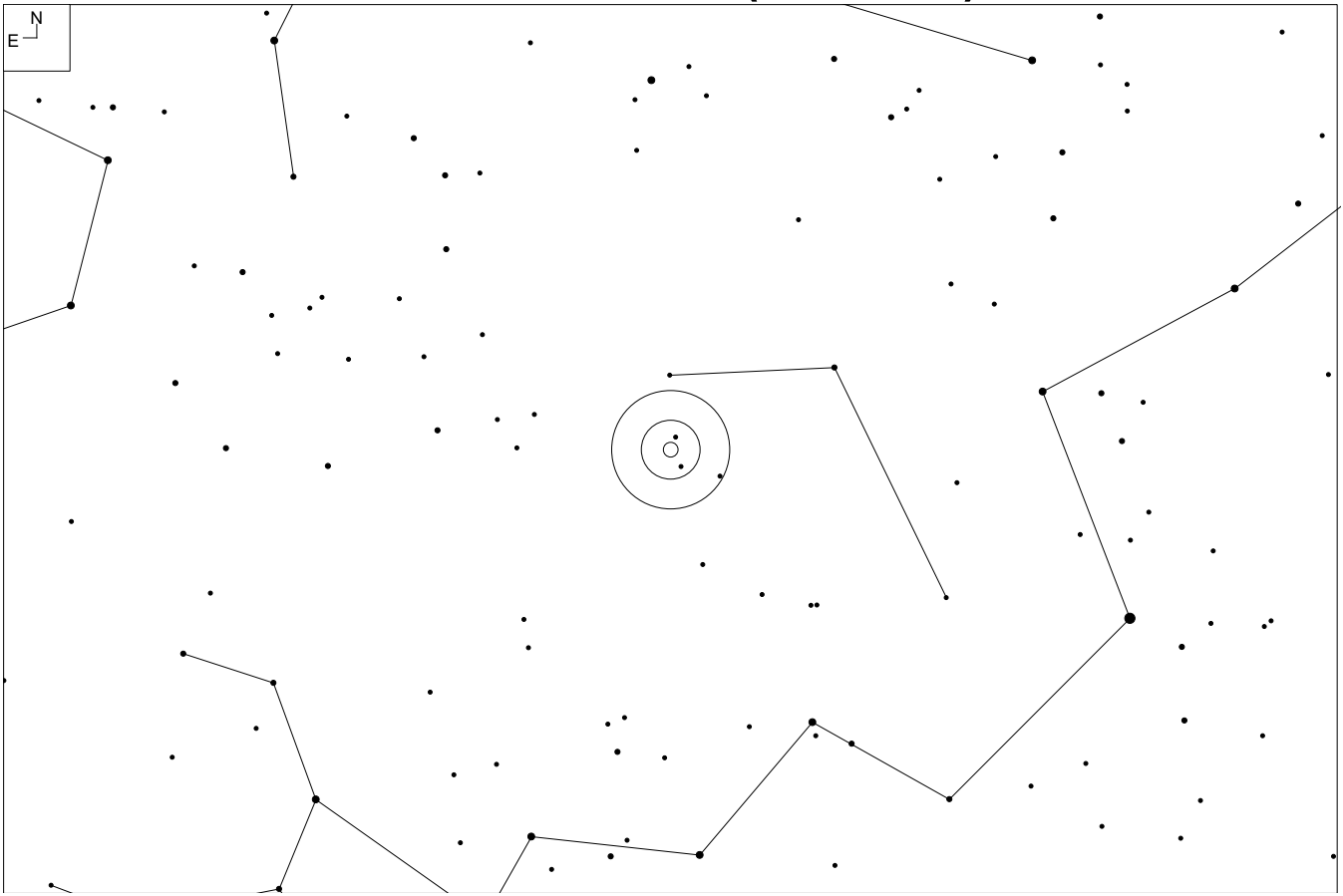


# CGCG 9-42 (Sextans)

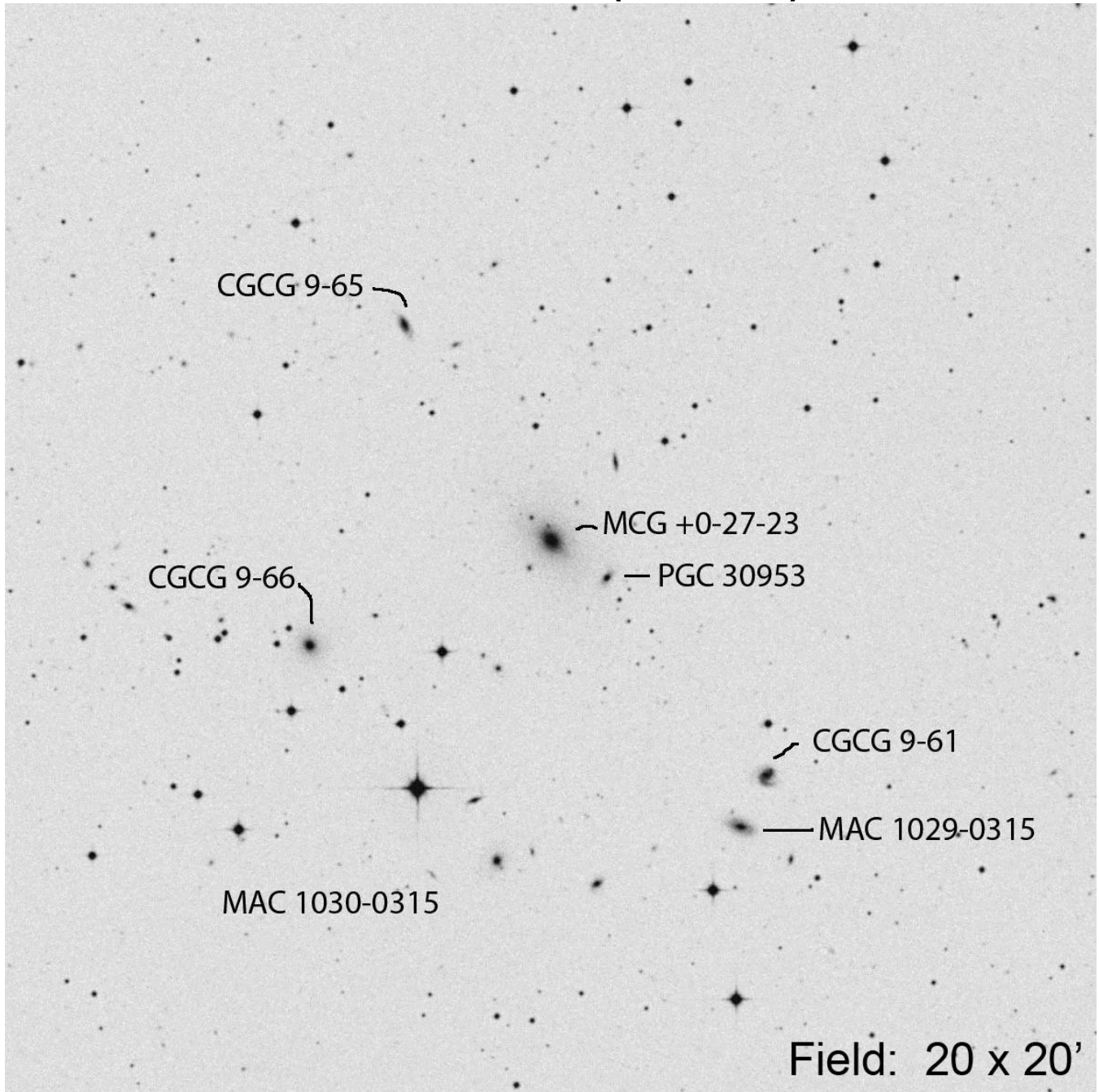


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW2s	10 27 10.2	-03 19 06	14.6	6+

# MCG +0-27-23 (Sextans)

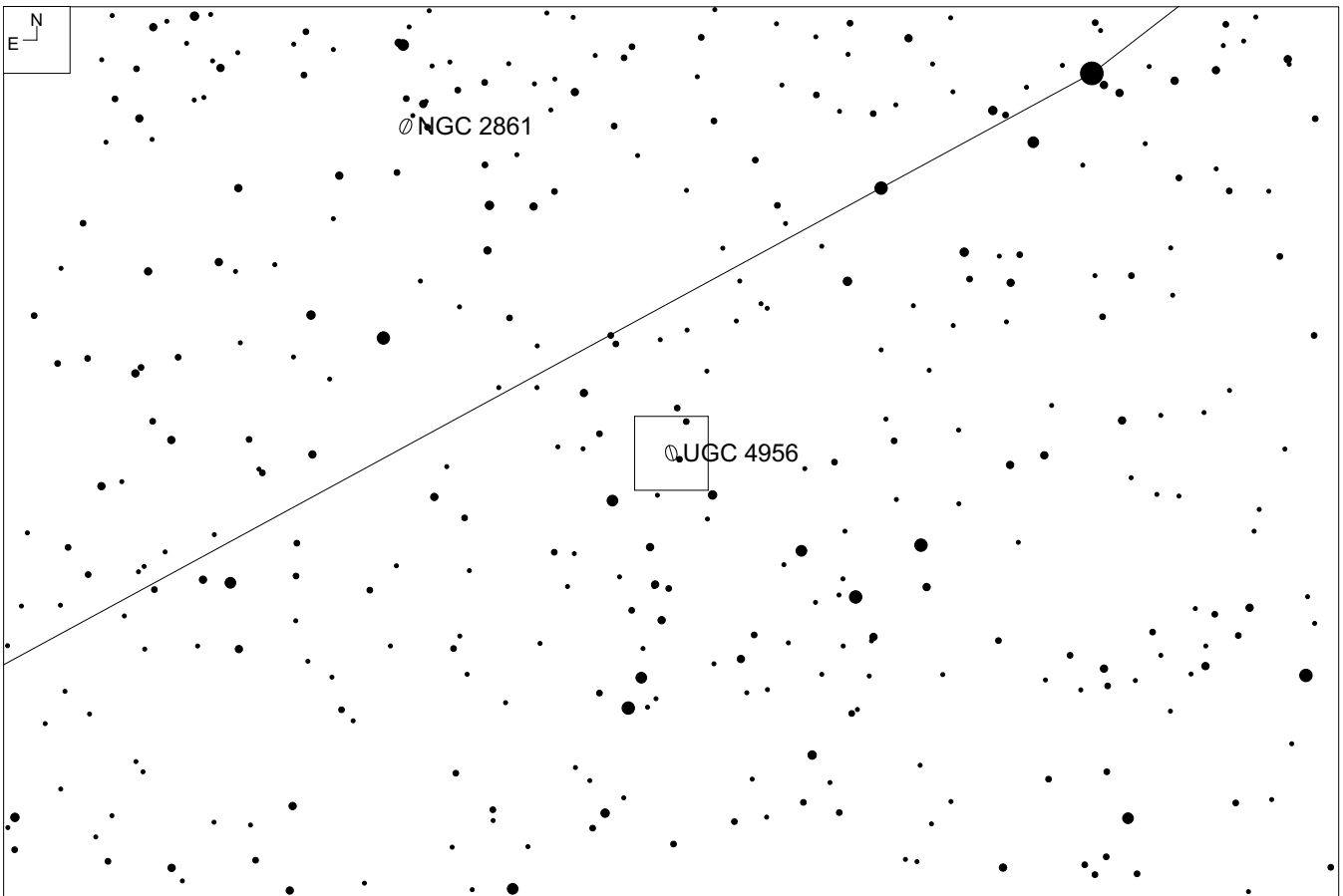
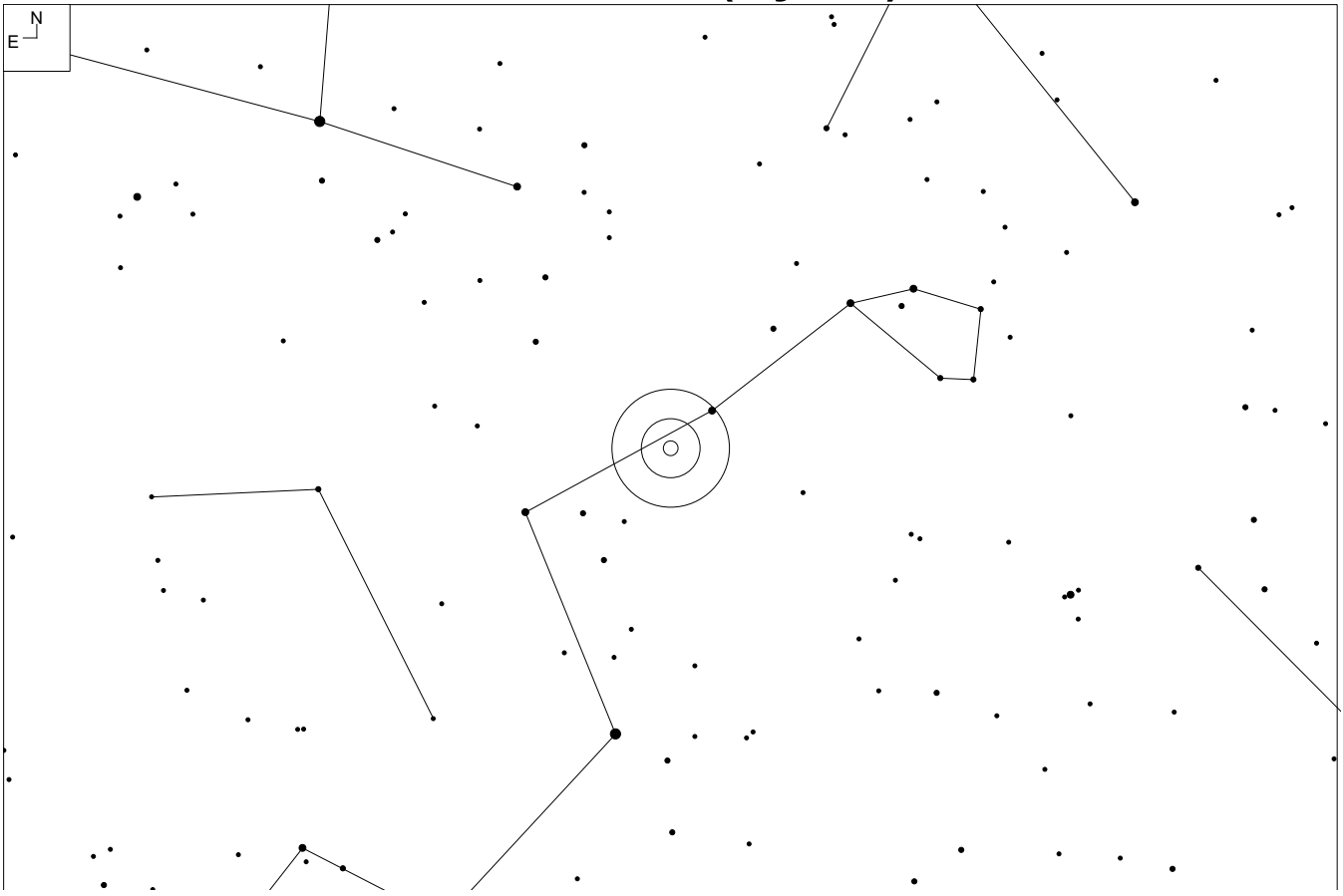


# MCG +0-27-23 (Sextans)

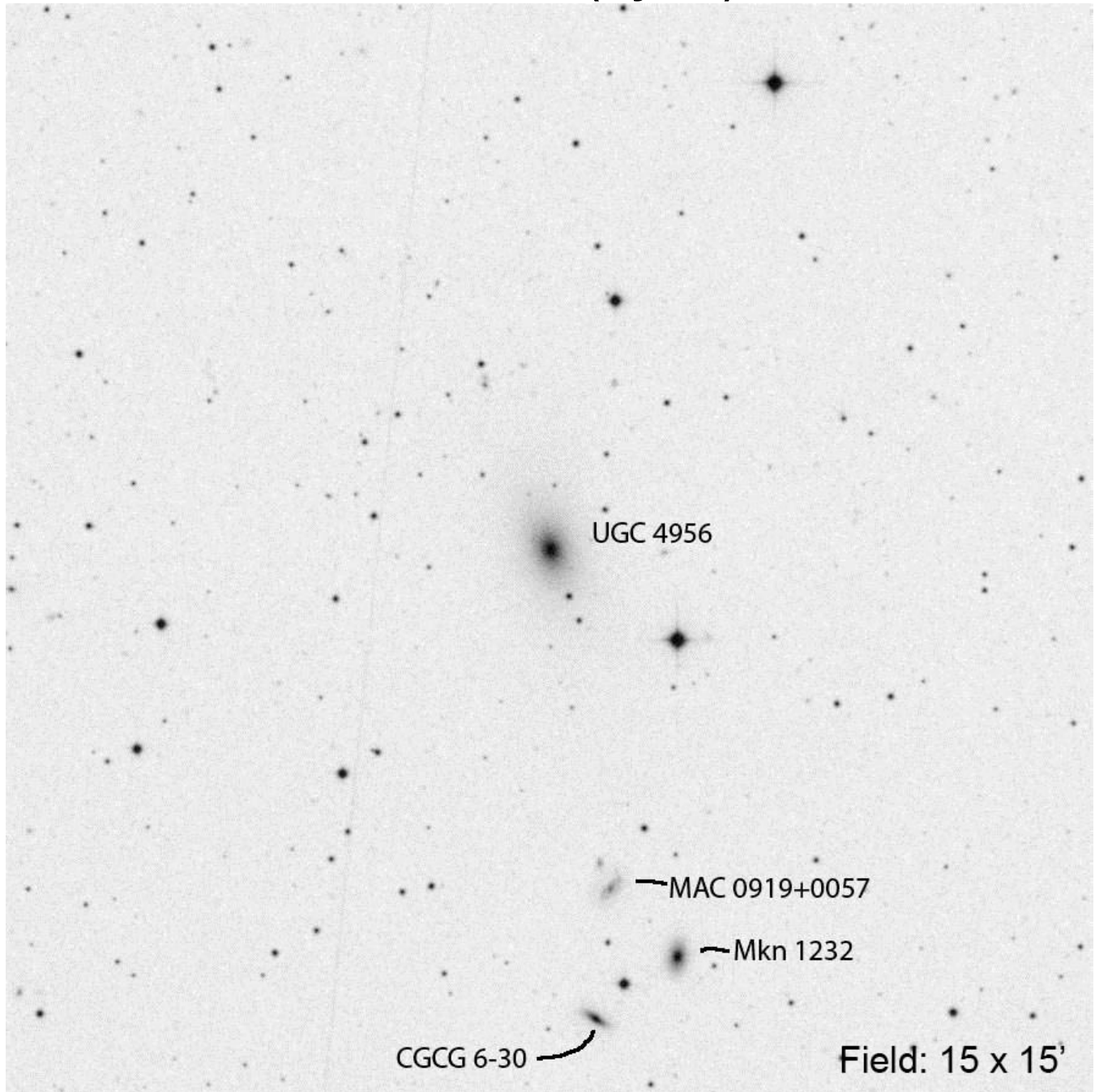


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 2	10 30 10.6	-03 09 50	13.8	14+

# UGC 4956 (Hydra)

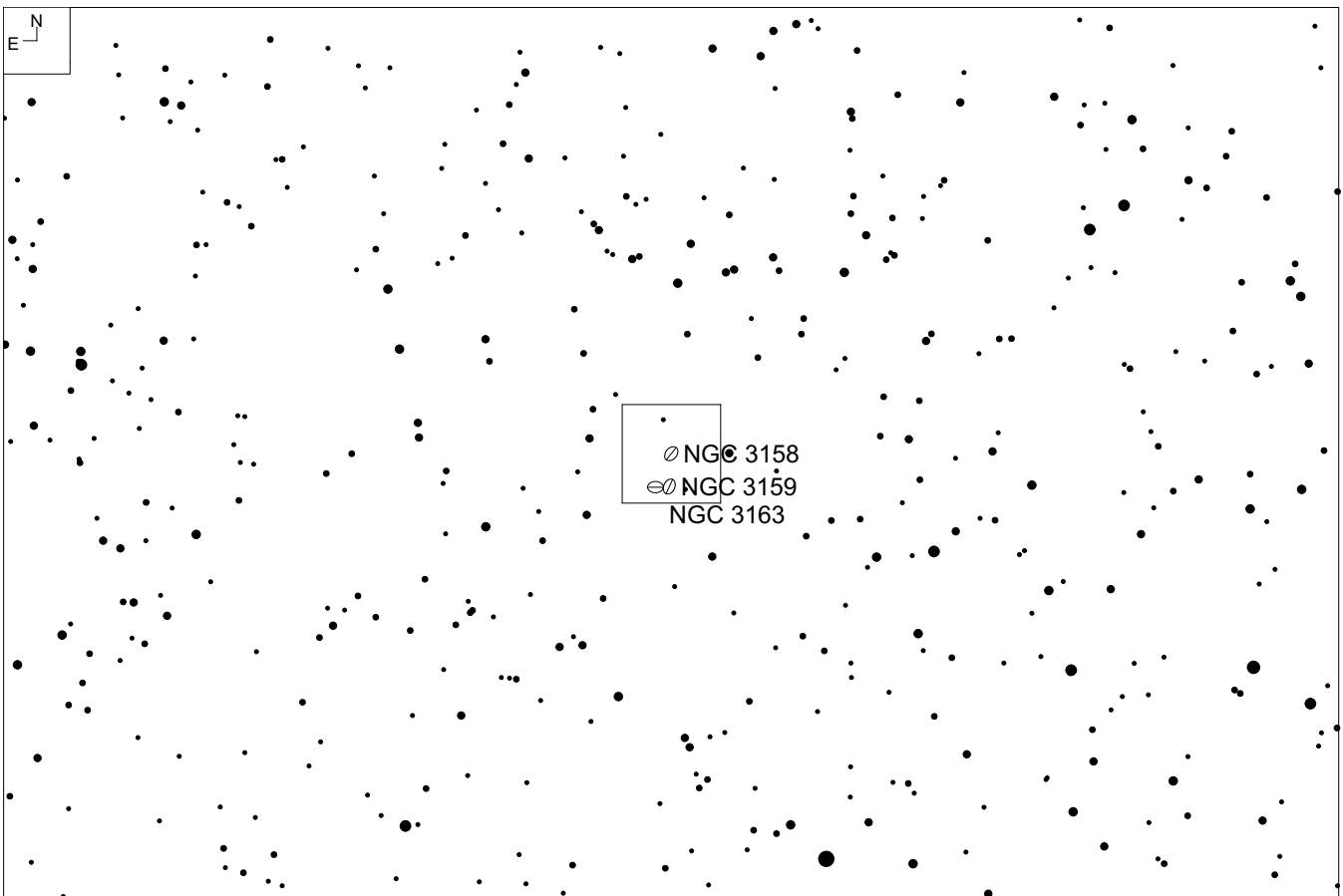
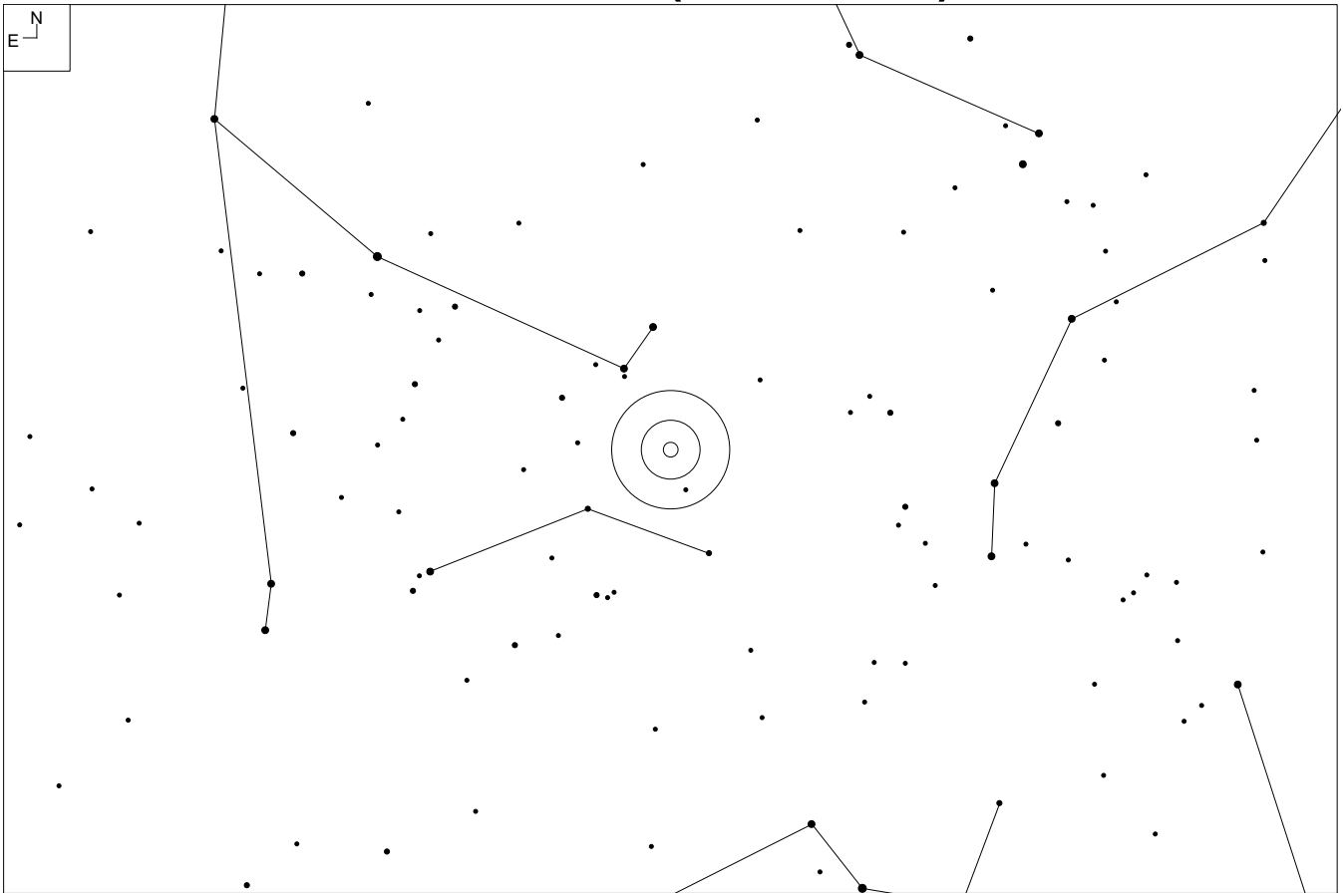


# UGC 4956 (Hydra)

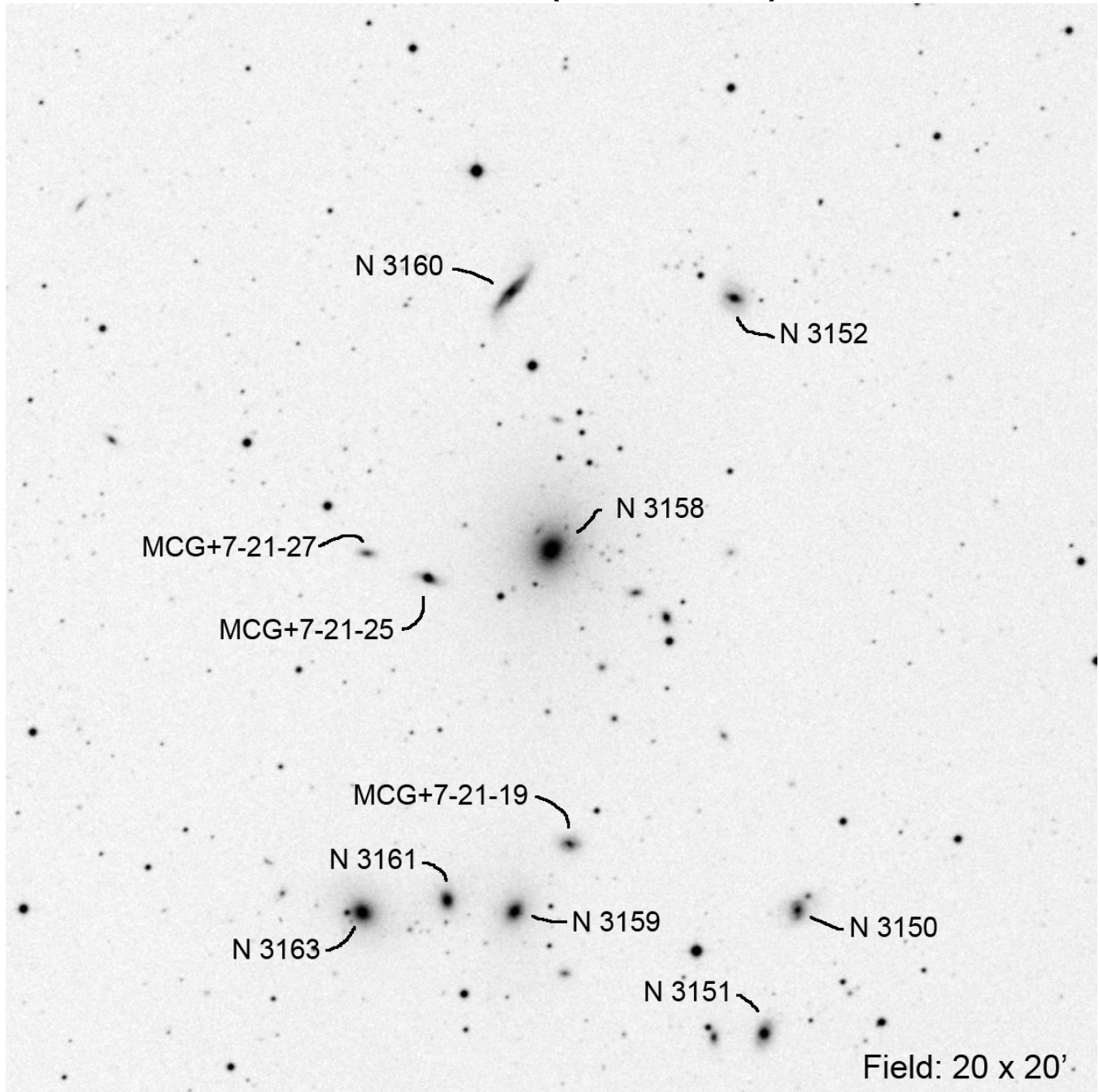


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 1s	09 20 01.9	+01 02 20	13.5	4

# NGC 3158 (Leo Minor)

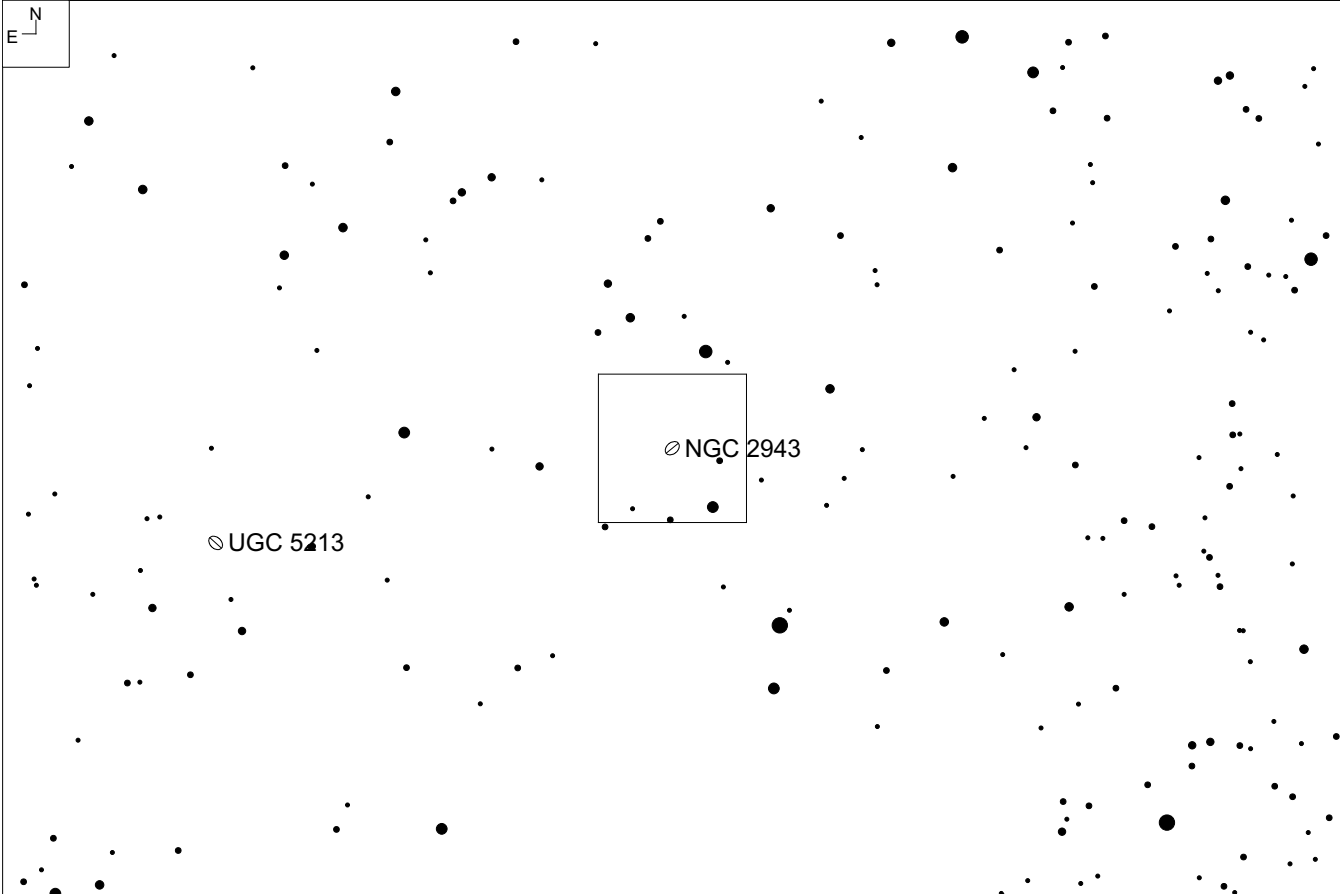
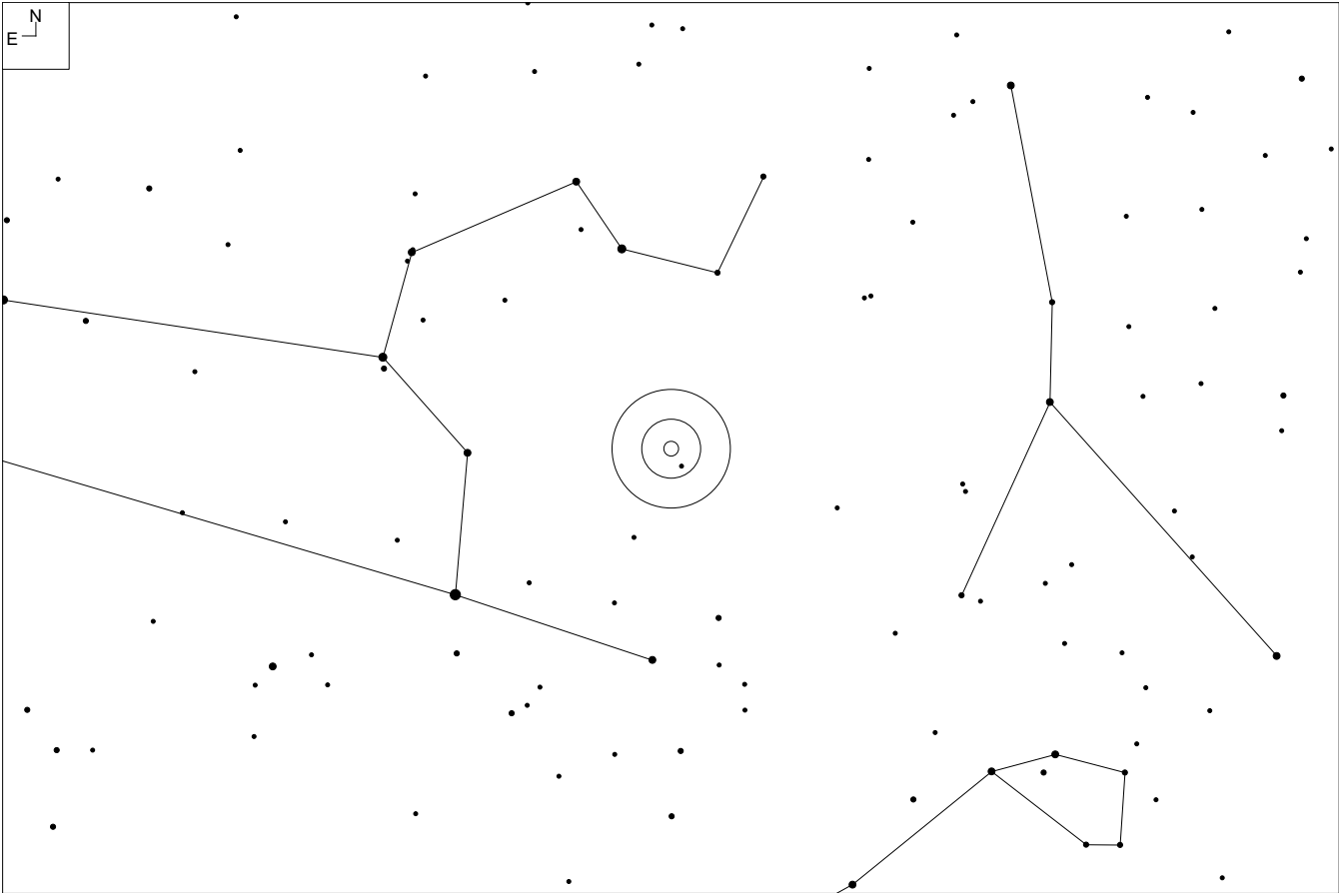


# NGC 3158 (Leo Minor)



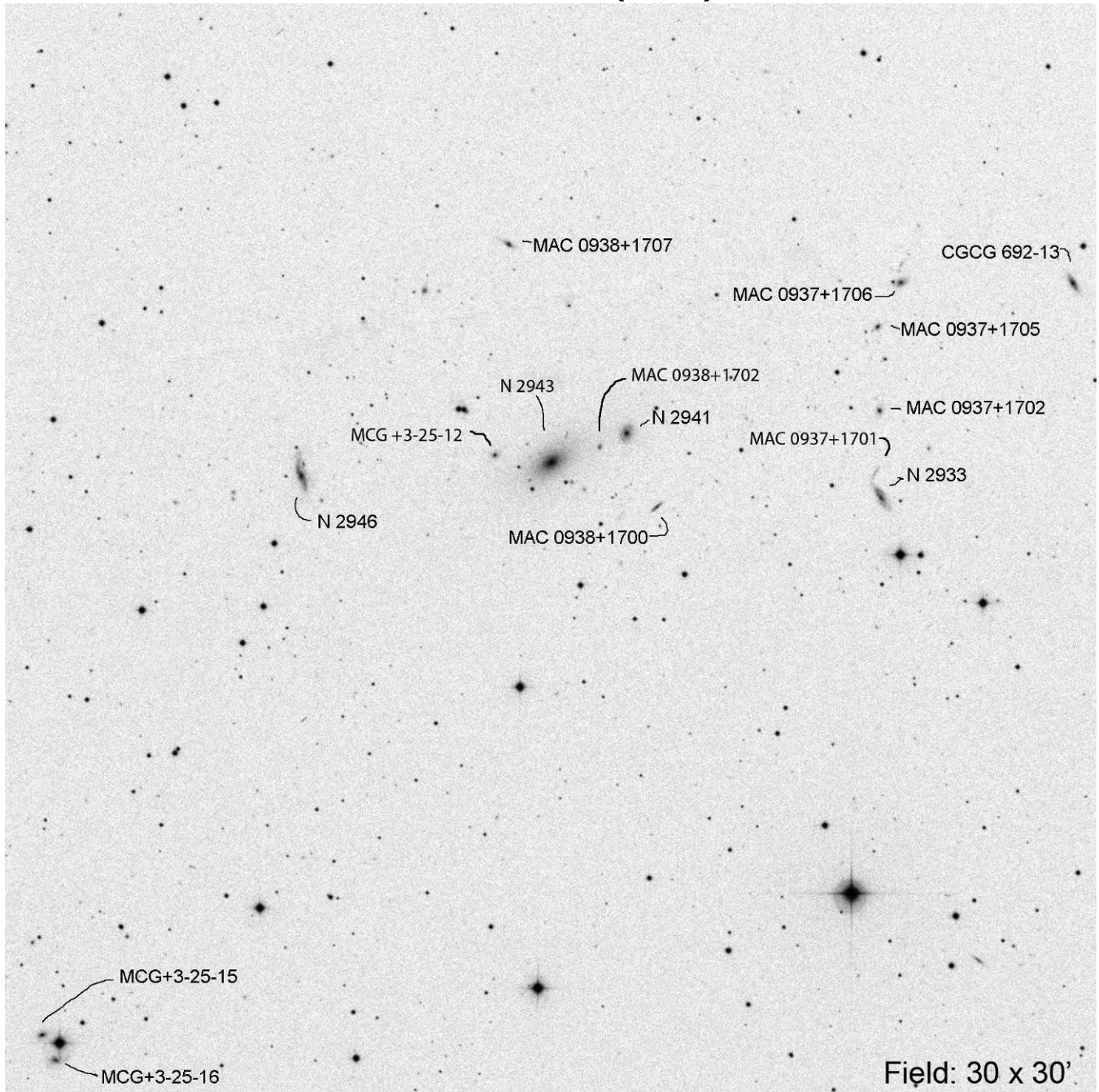
RA	Dec	Mag <sub>1</sub>	# of galaxies
10 13 50.5	+38 45 53	11.9	9

# NGC 2943 (Leo)



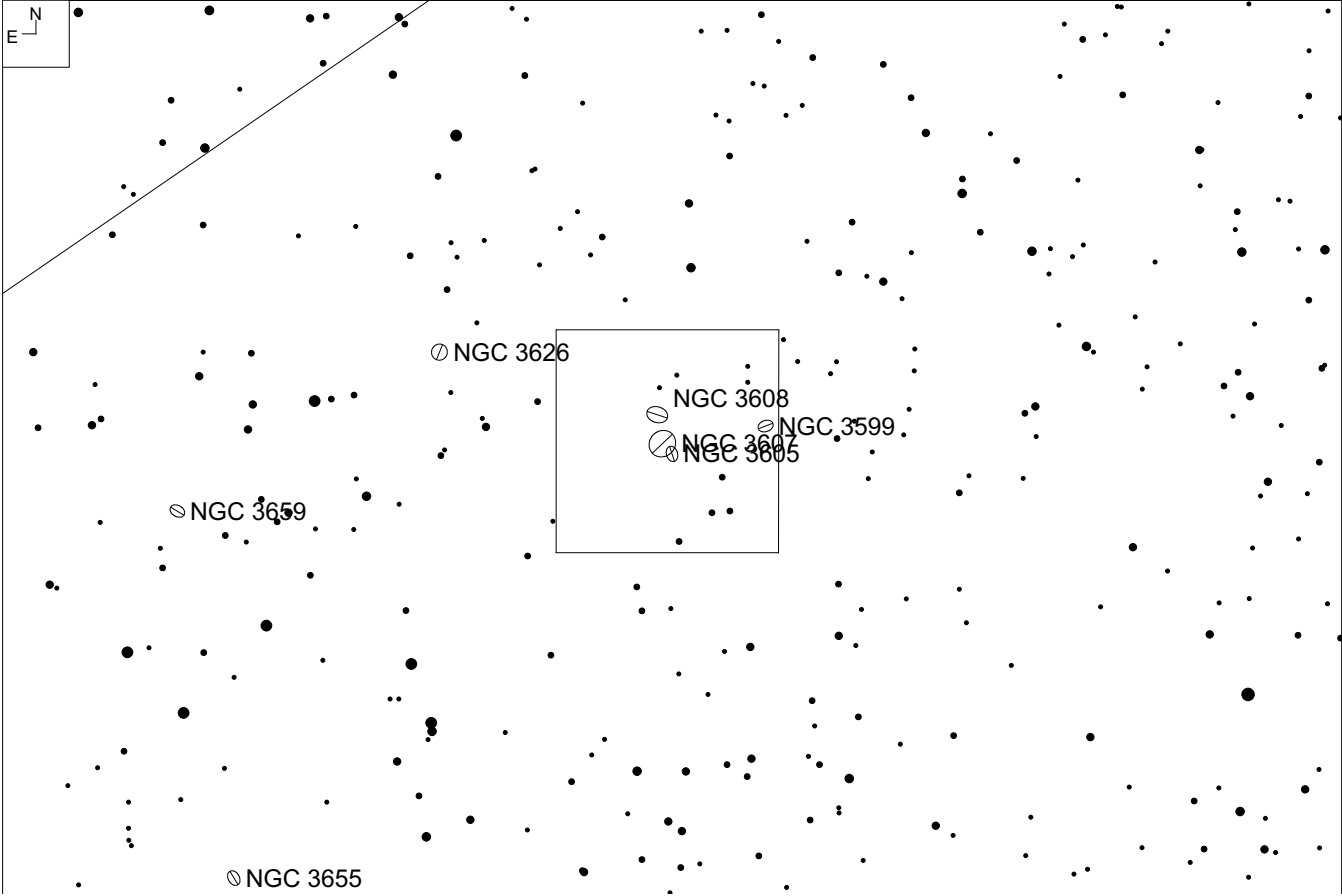
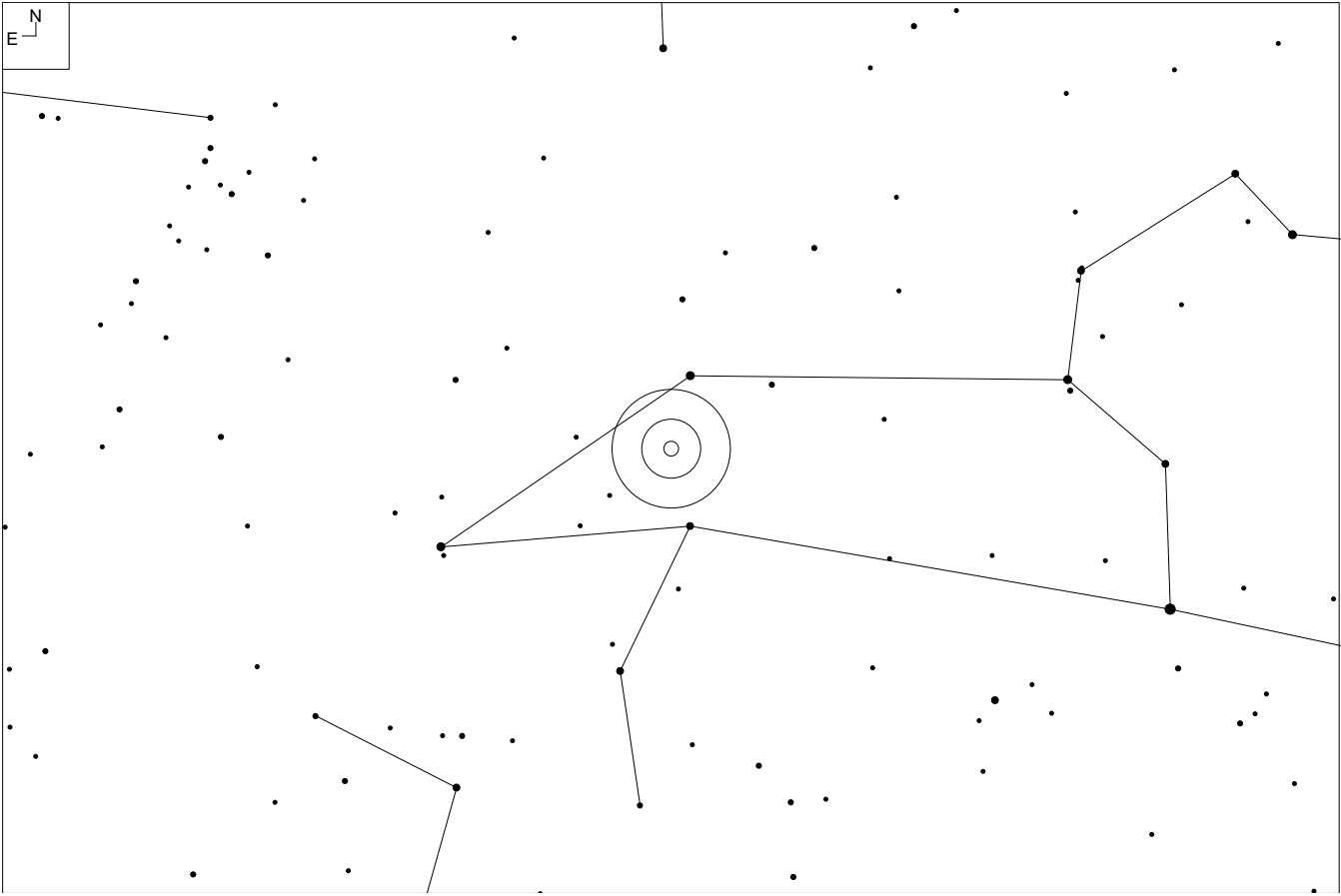


# NGC 2943 (Leo)

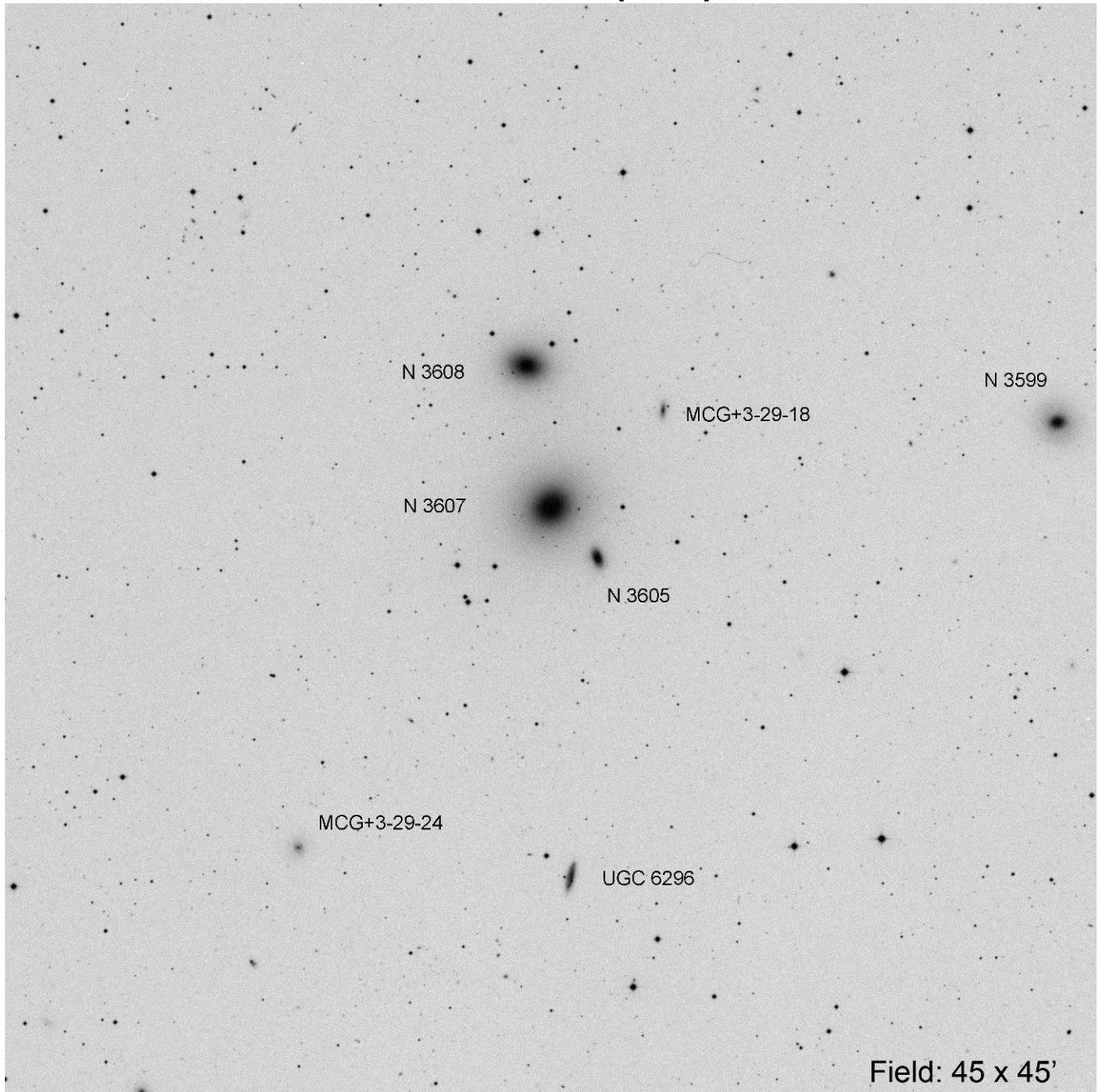


RA	Dec	Mag <sub>1</sub>	# of galaxies
09 38 32.9	+17 01 52	12.4	8

# NGC 3607 (Leo)

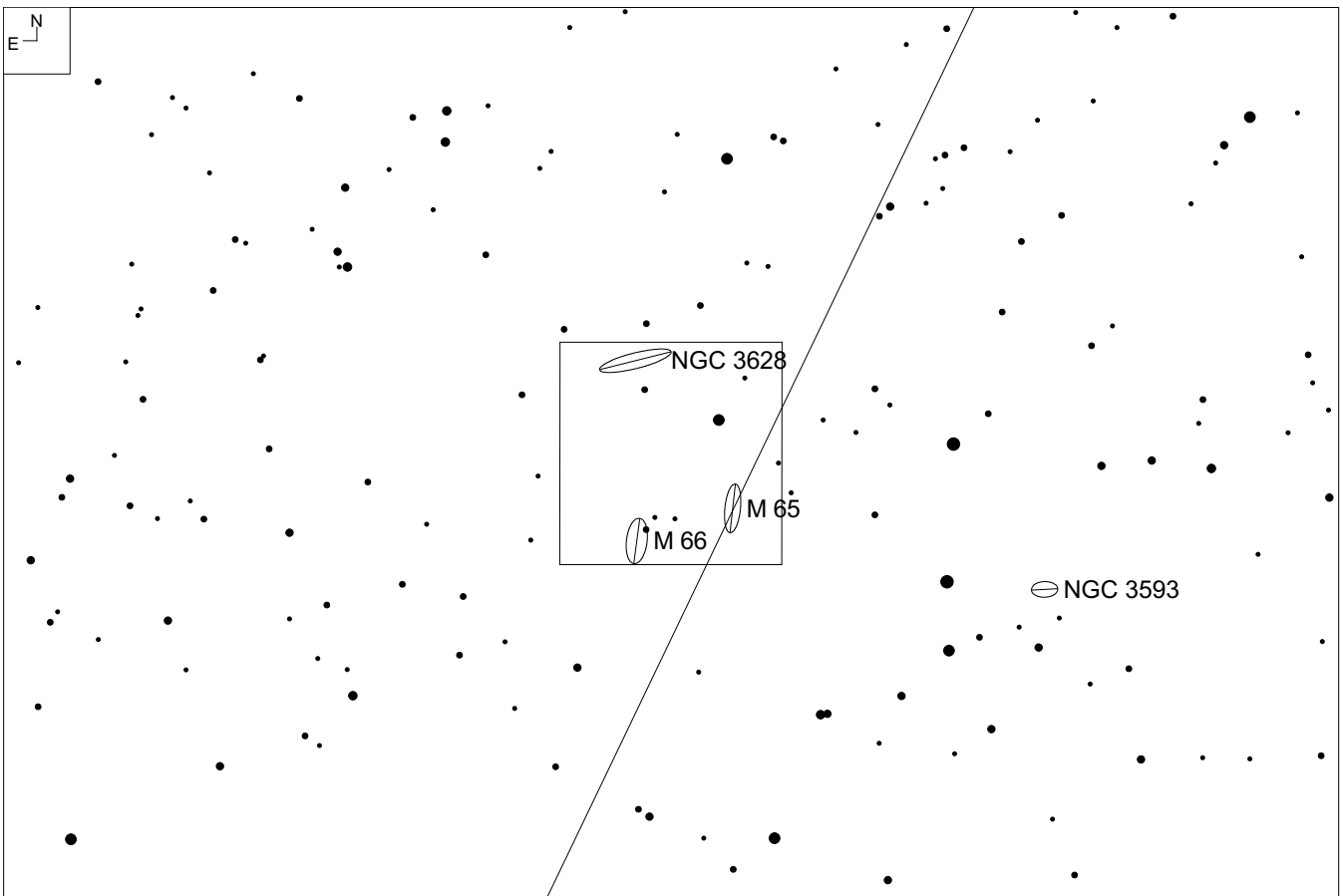
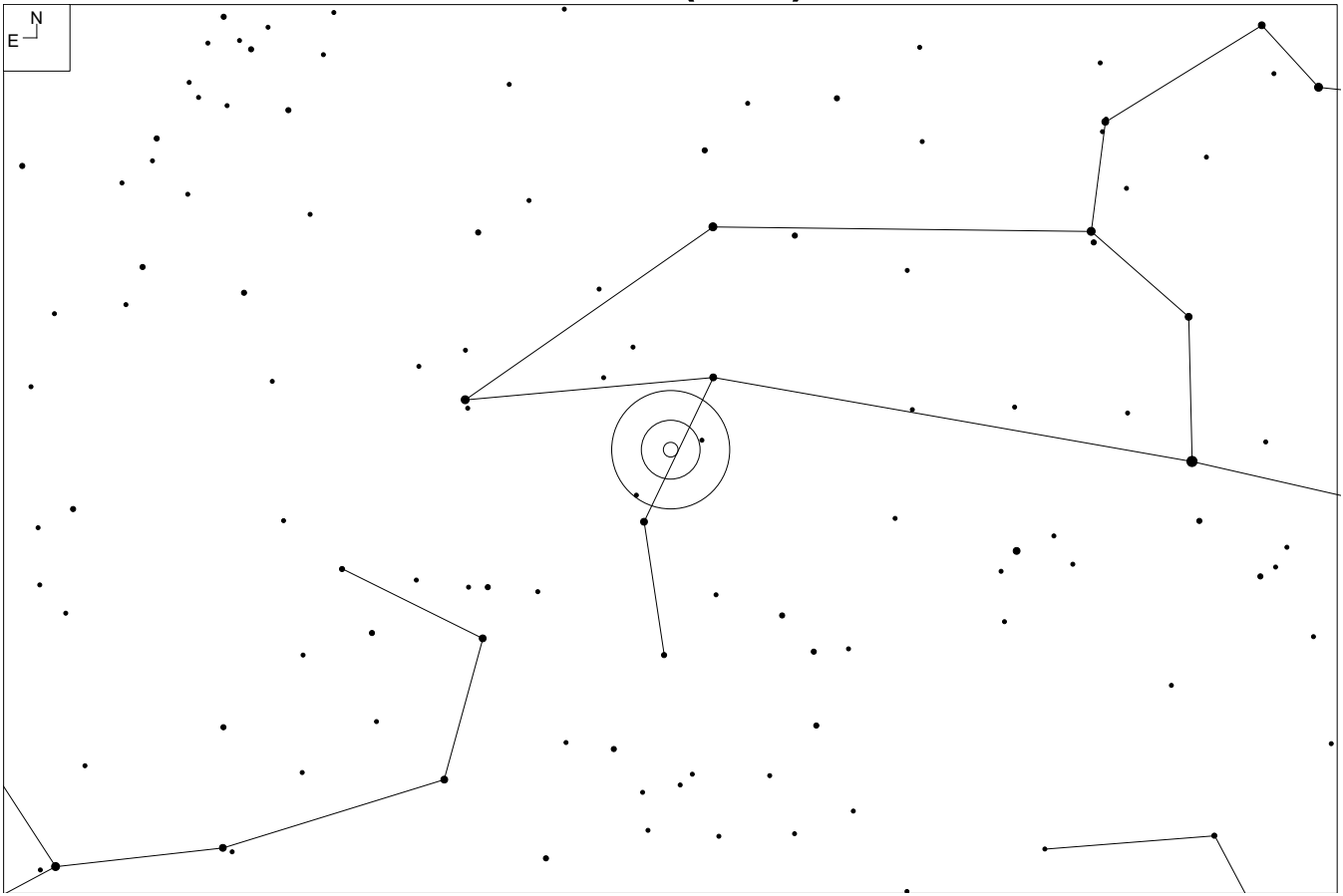


# NGC 3607 (Leo)

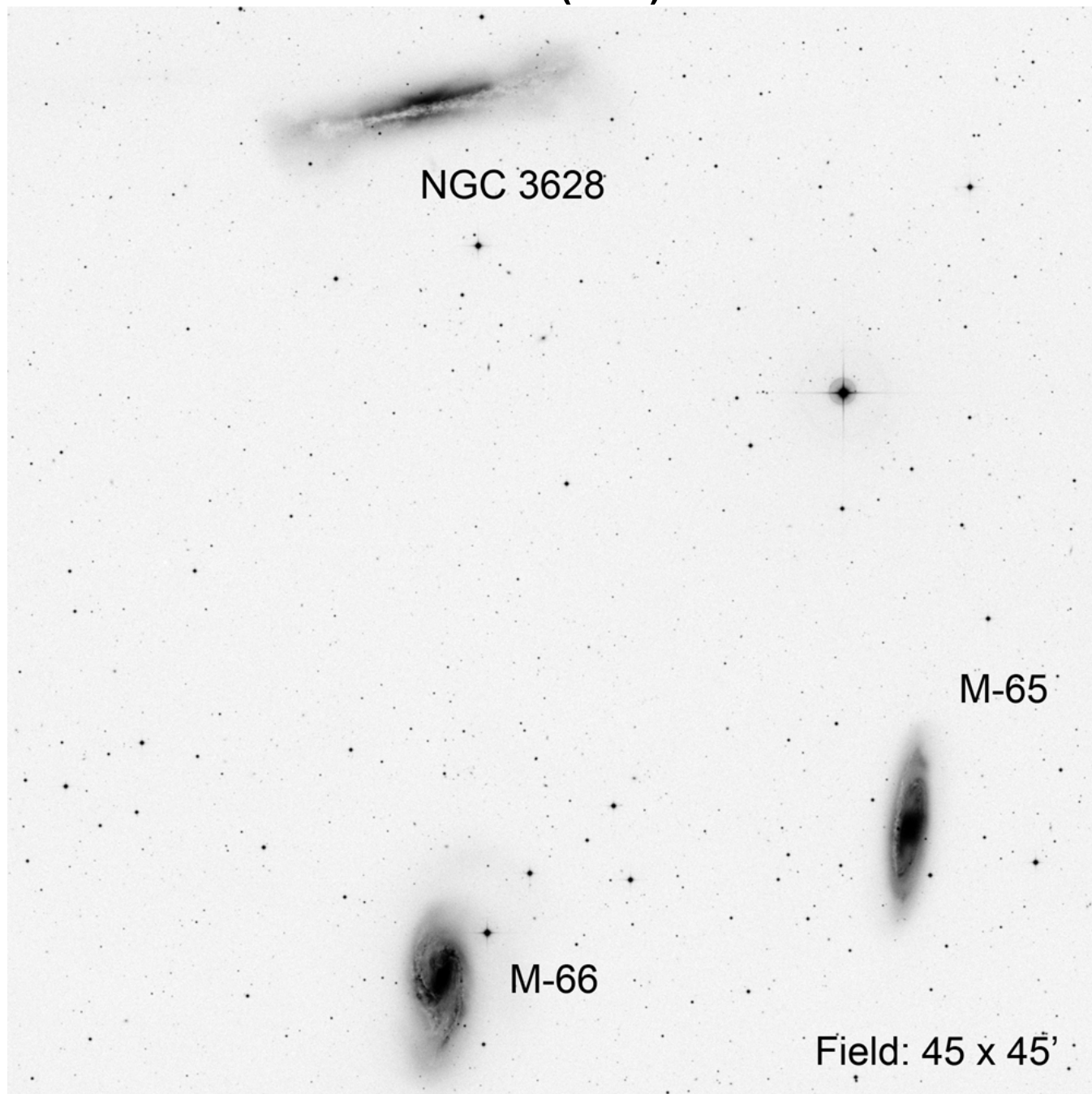


RA	Dec	Mag <sub>1</sub>	# of galaxies
11 16 54.7	+18 03 05	9.9	7

# M 66 (Leo)



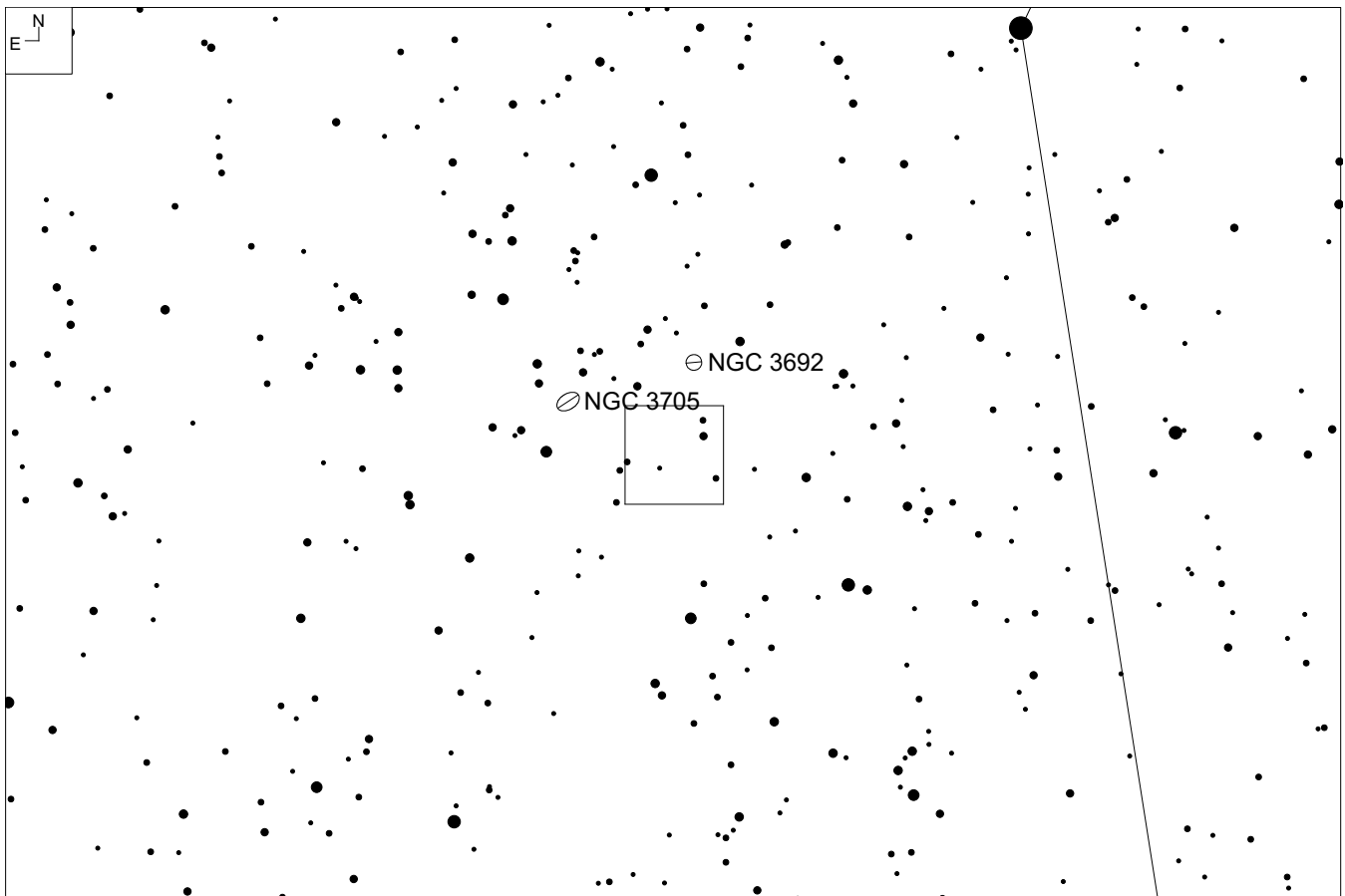
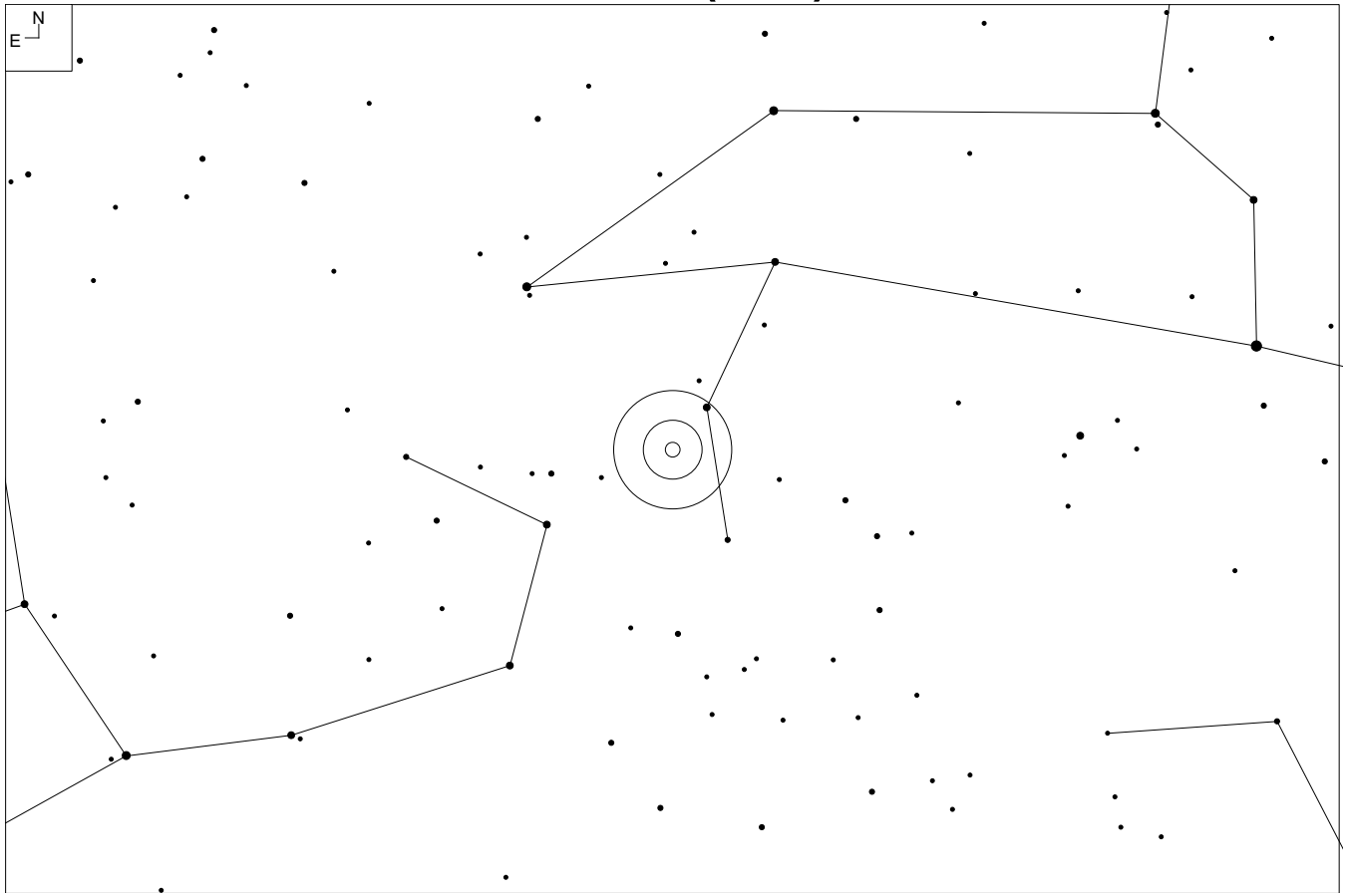
# M 66 (Leo)



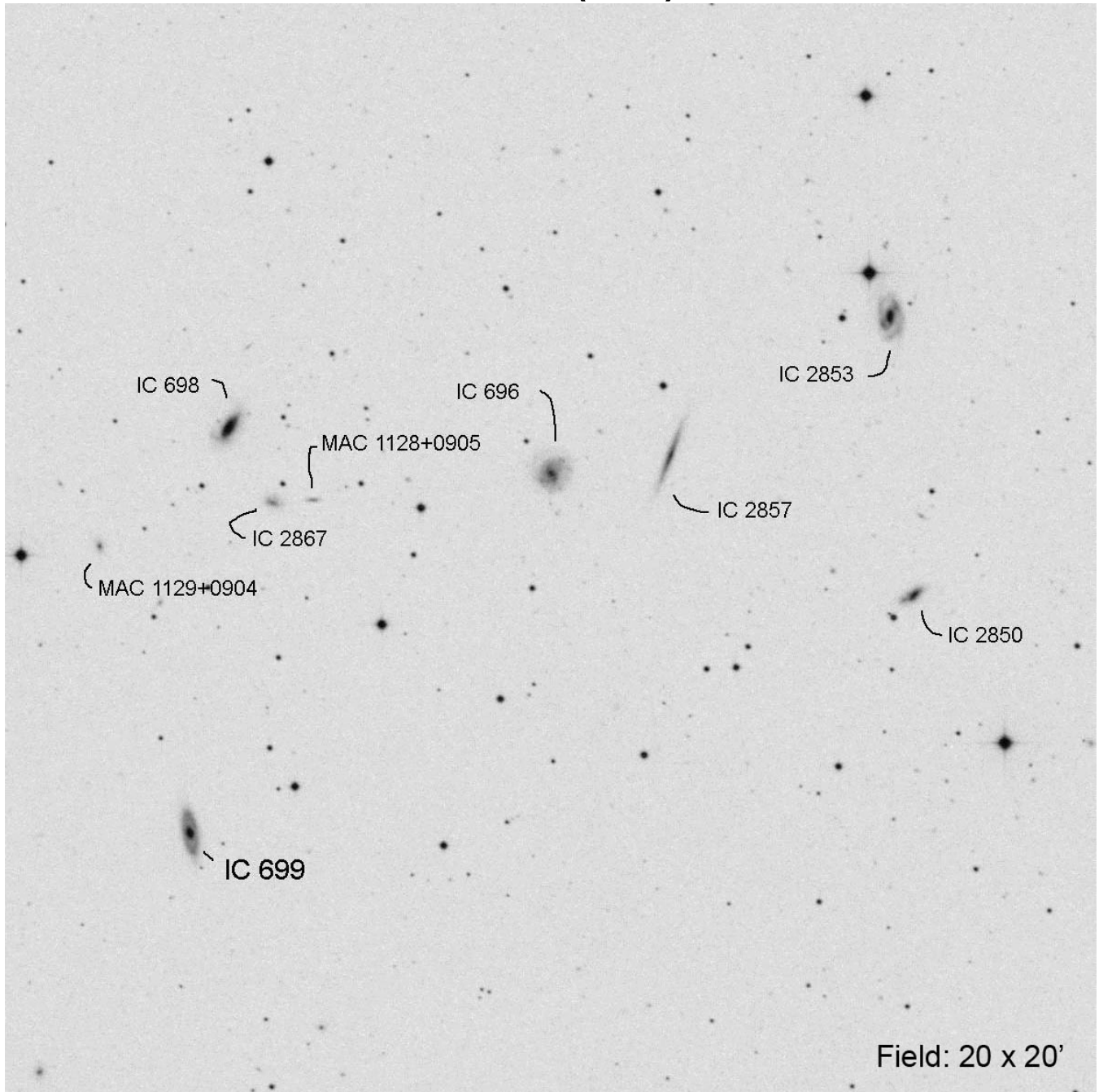
RA	Dec	Mag <sub>1</sub>	# of galaxies
11 20 15.0	+12 59 00	8.9	3+

Includes Arp 16 and Arp 317

# IC 696 (Leo)



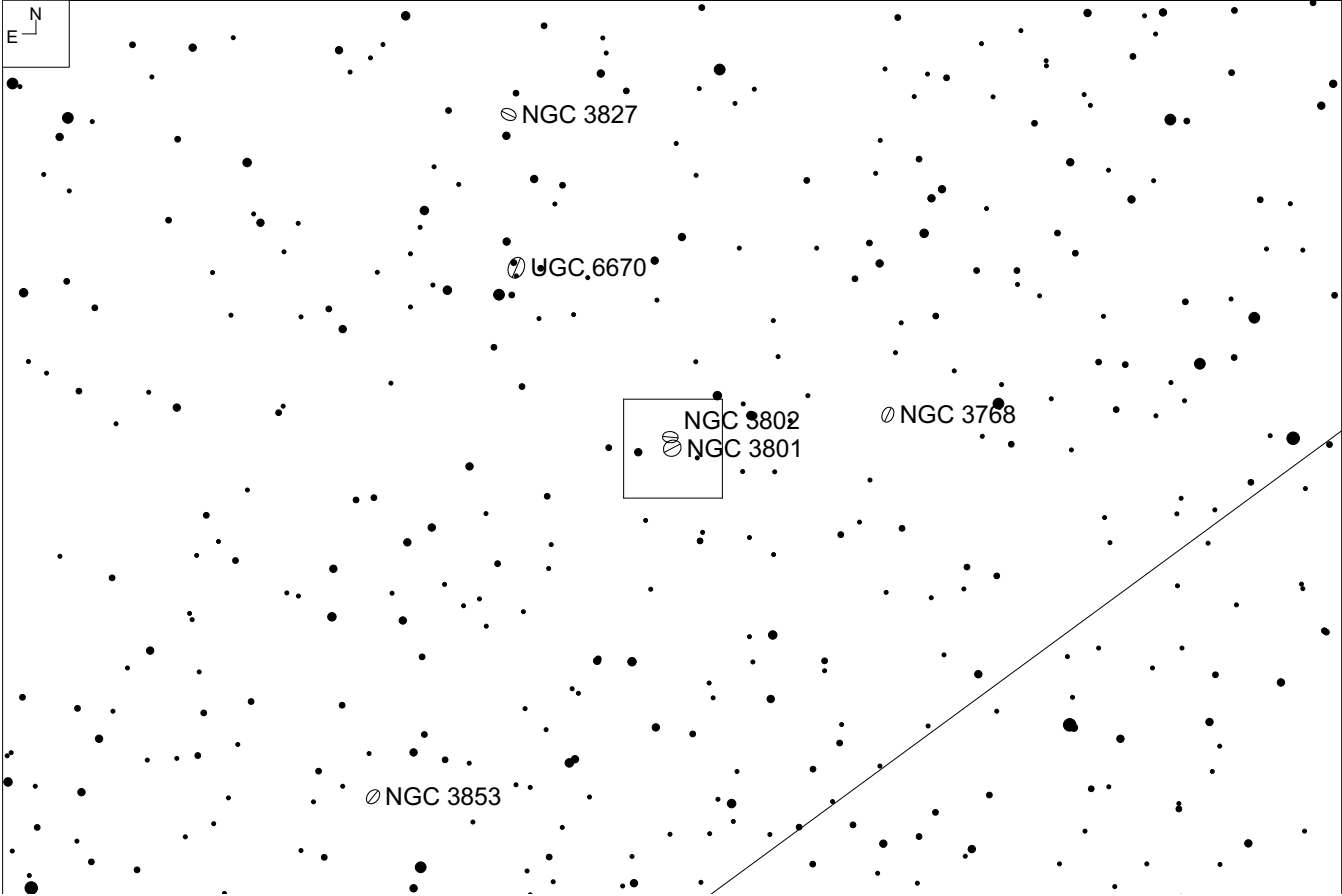
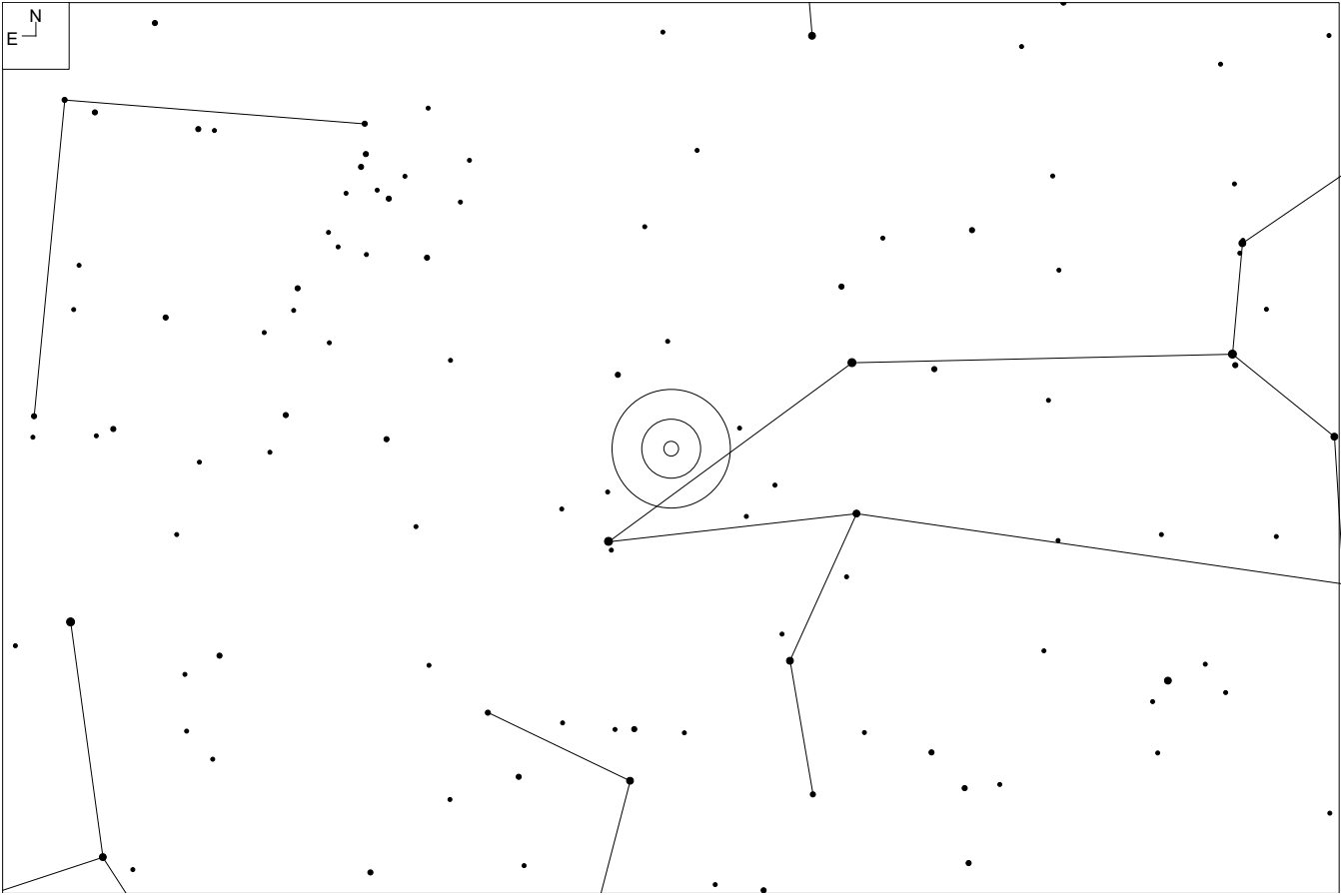
# IC 696 (Leo)



Field: 20 x 20'

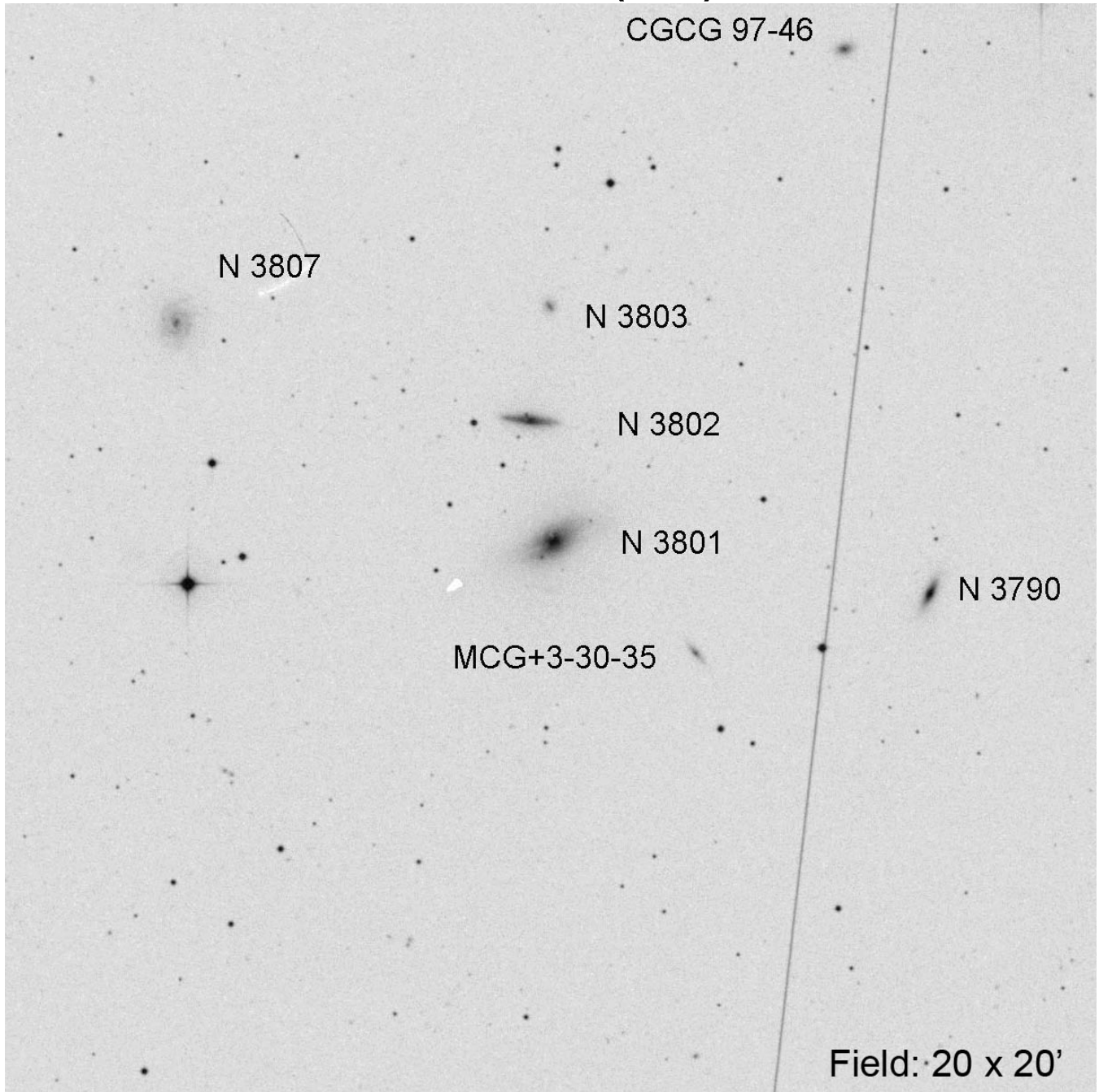
RA	Dec	Mag <sub>1</sub>	# of galaxies
11 28 39.9	+09 05 5	13.7	7

# NGC 3801 (Leo)



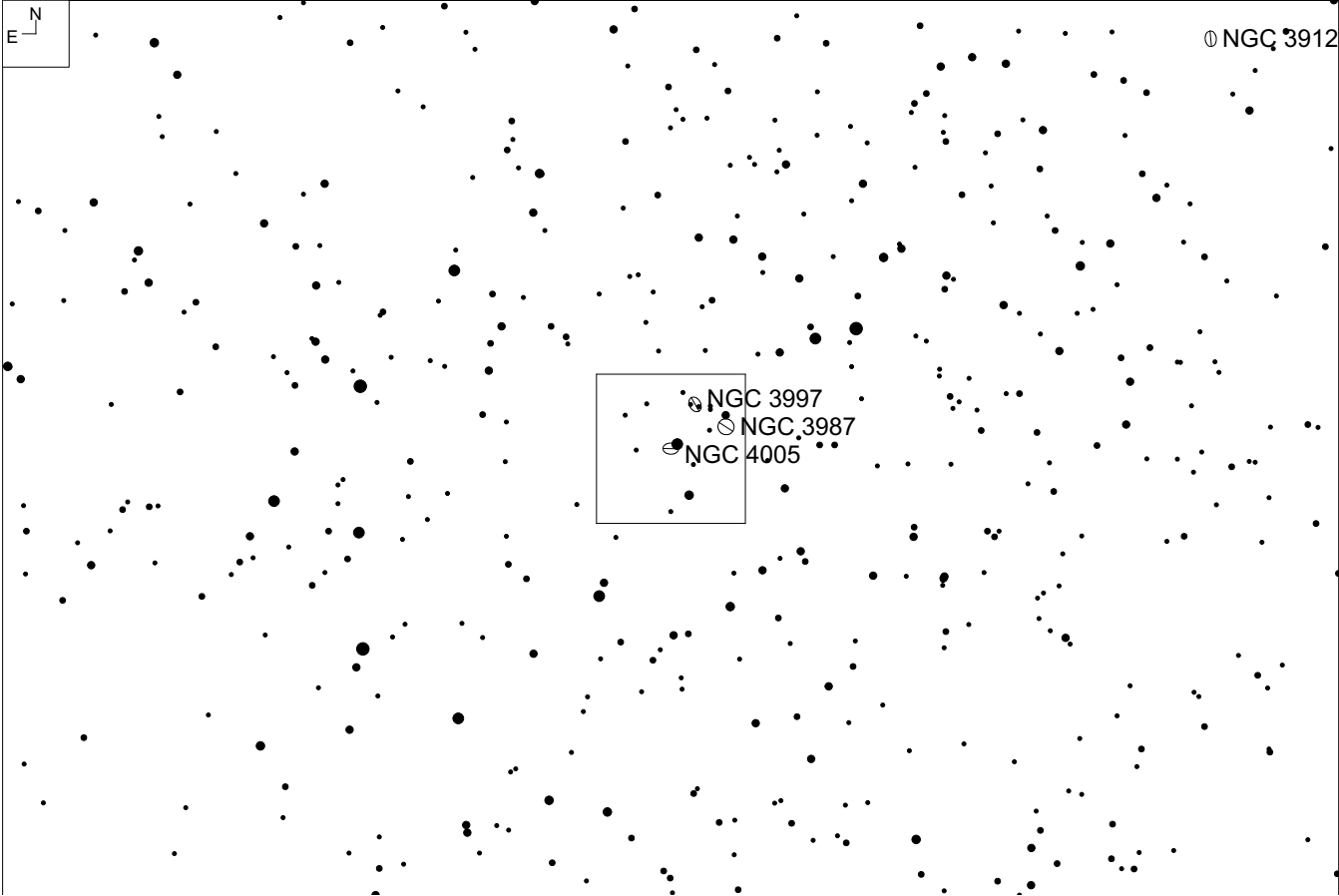
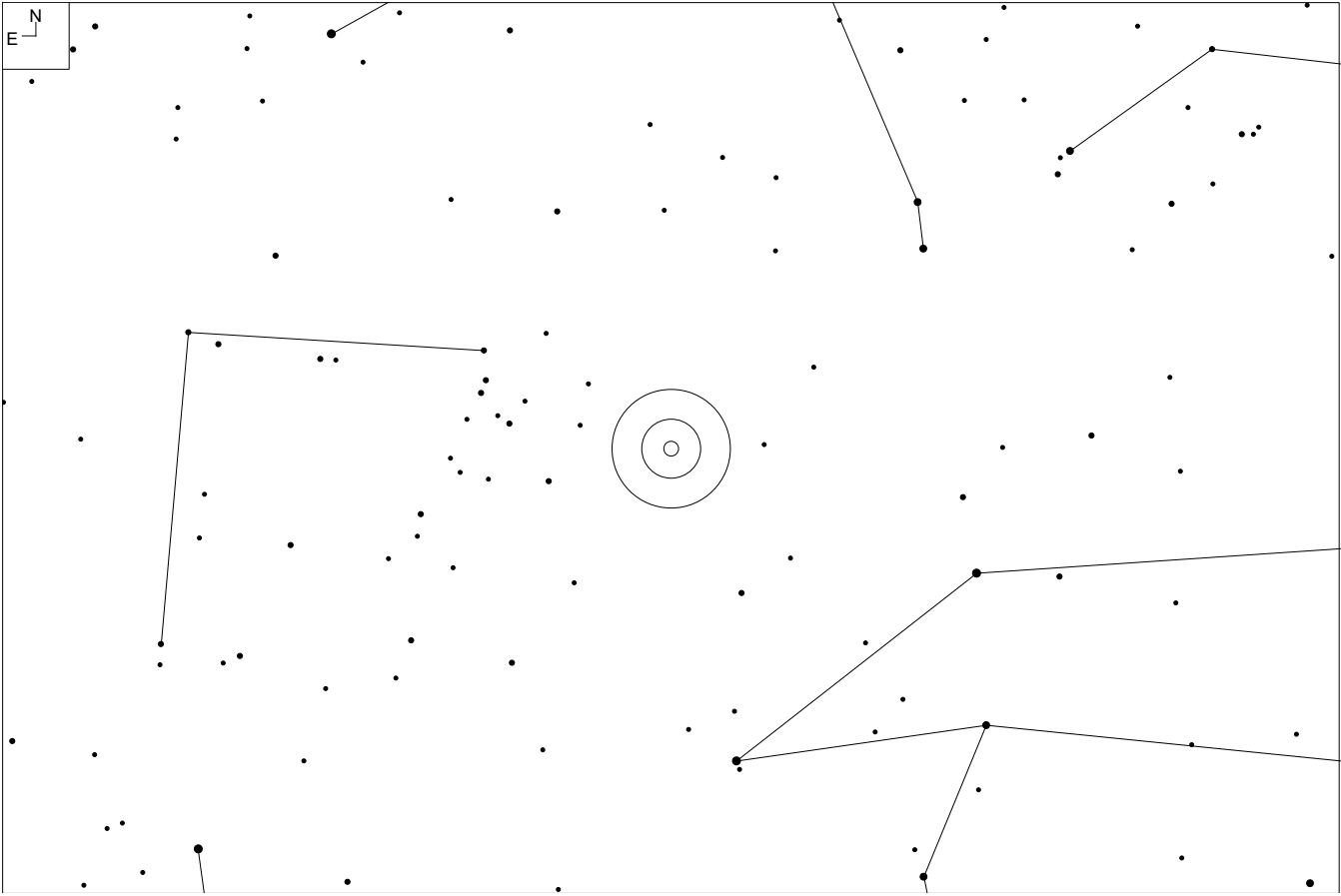


# NGC 3801 (Leo)

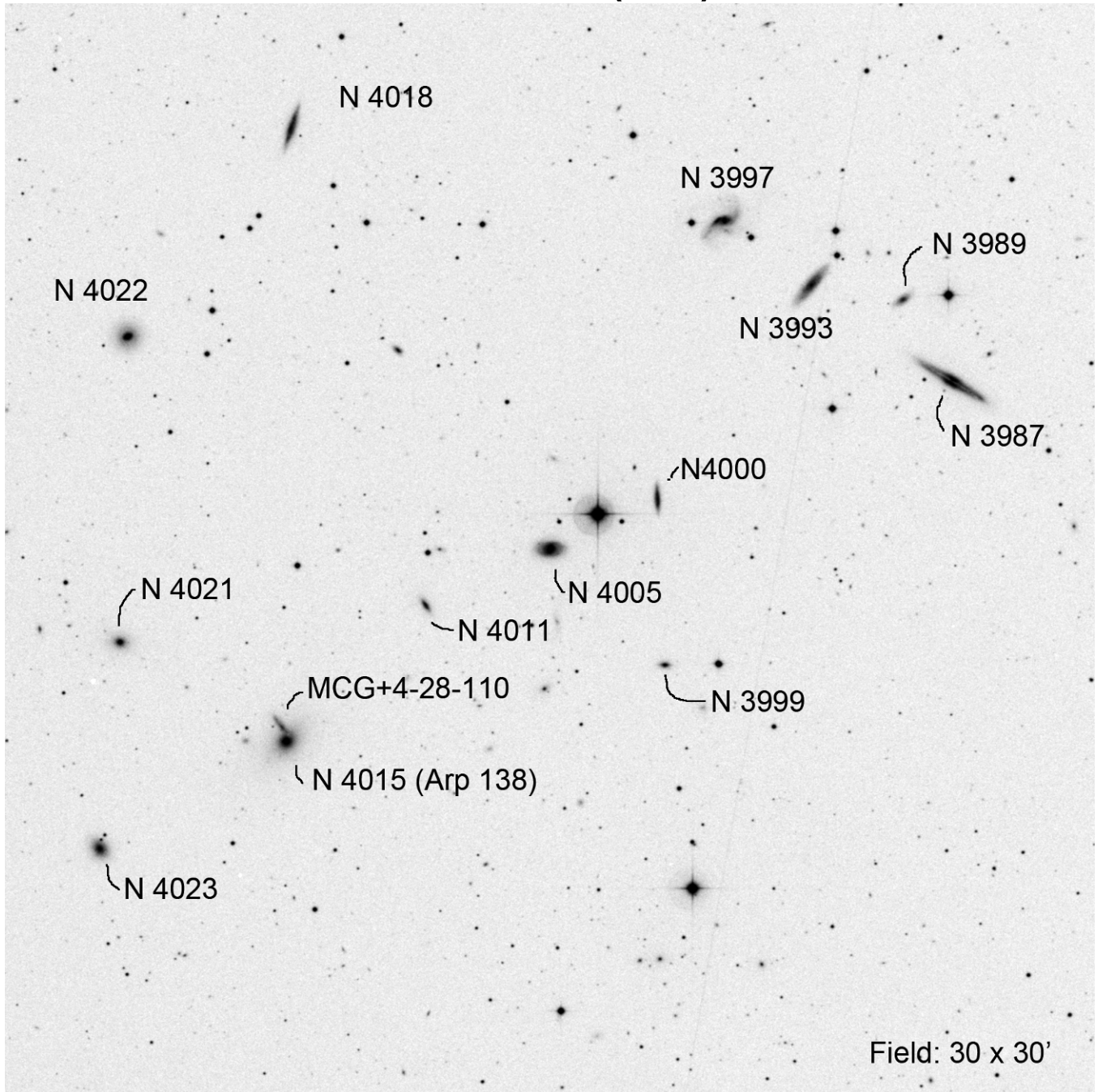


RA	Dec	Mag <sub>1</sub>	# of galaxies
11 40 16.9	+17 43 41	12.0	6

# NGC 4005 (Leo)



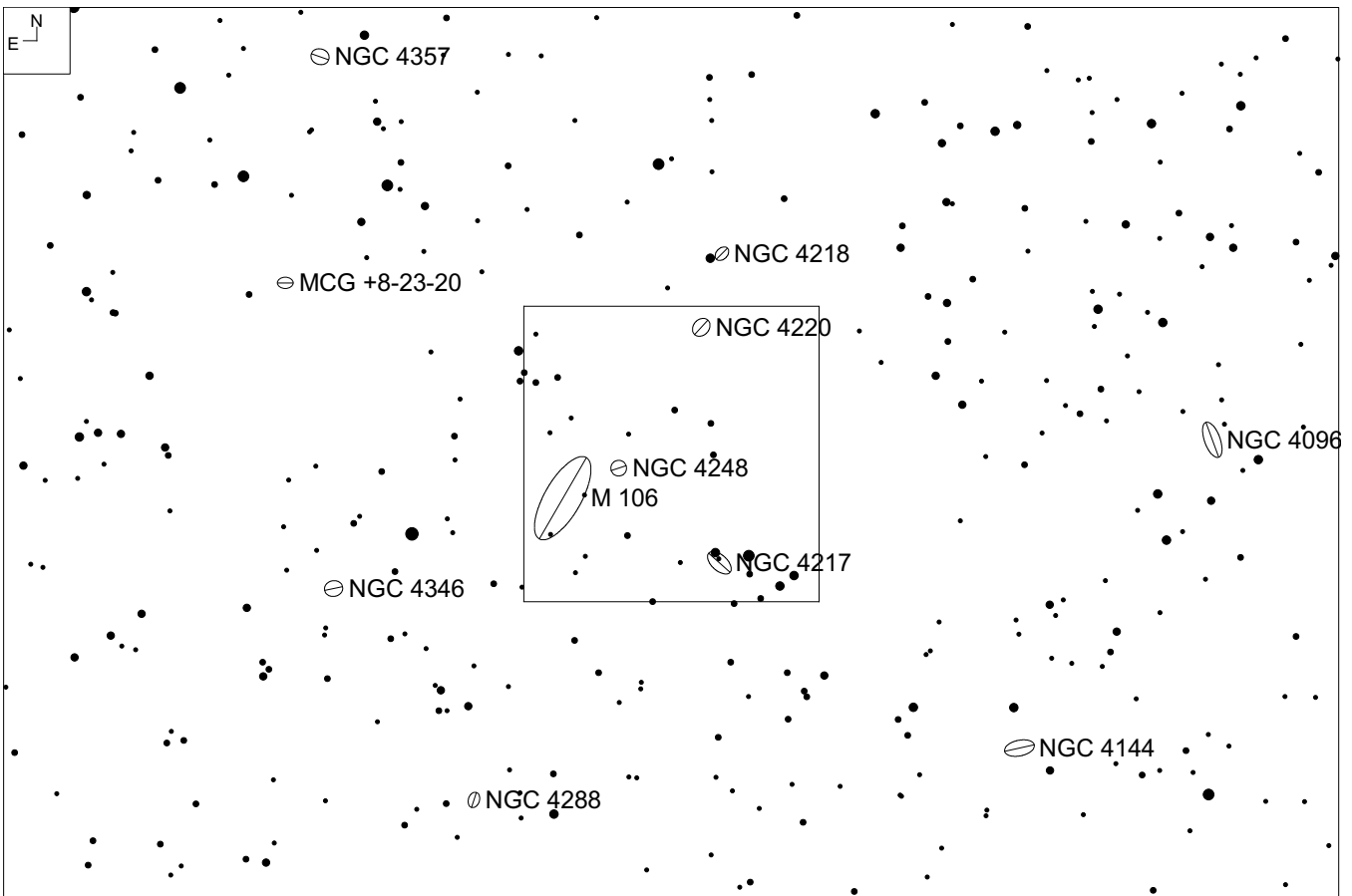
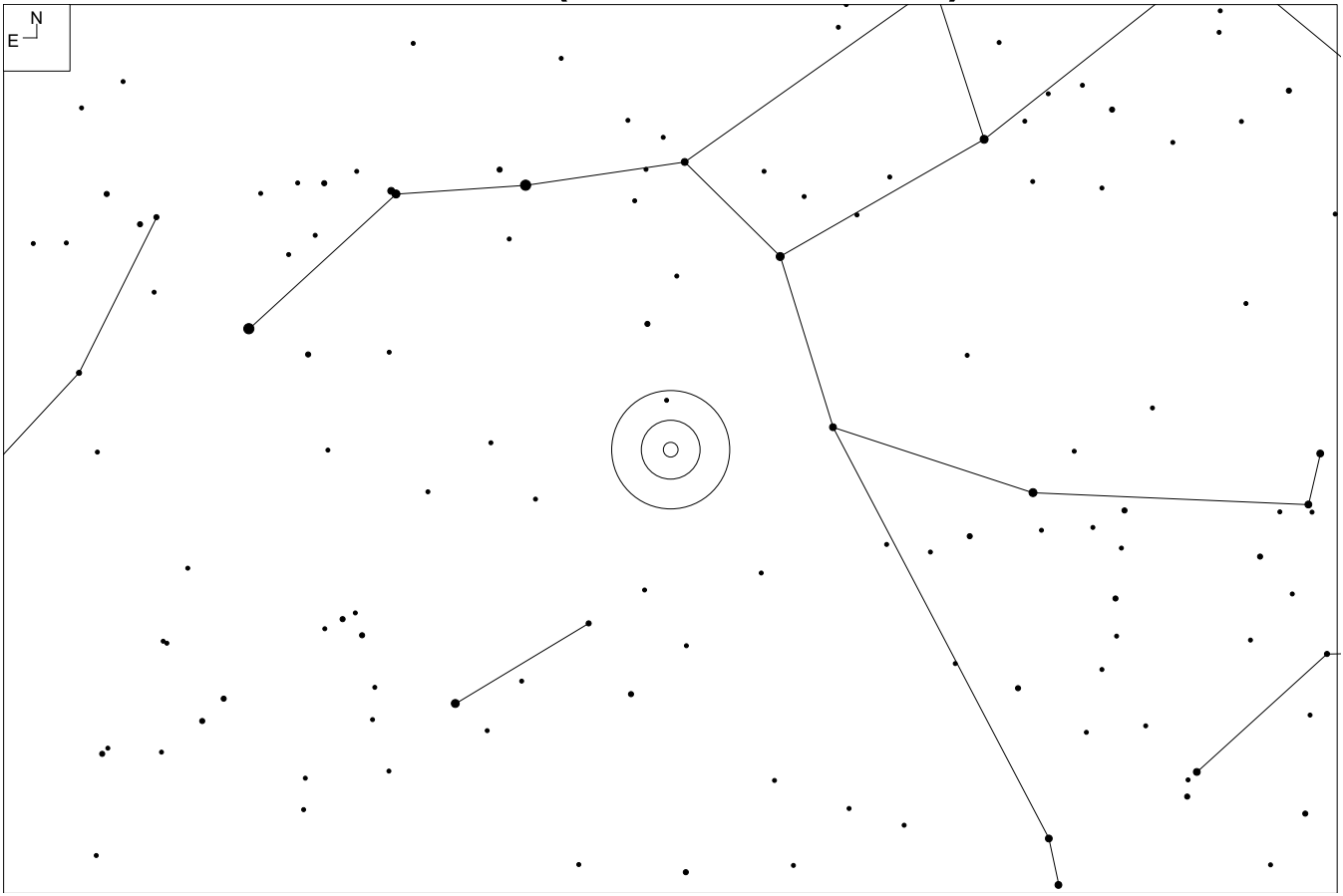
# NGC 4005 (Leo)



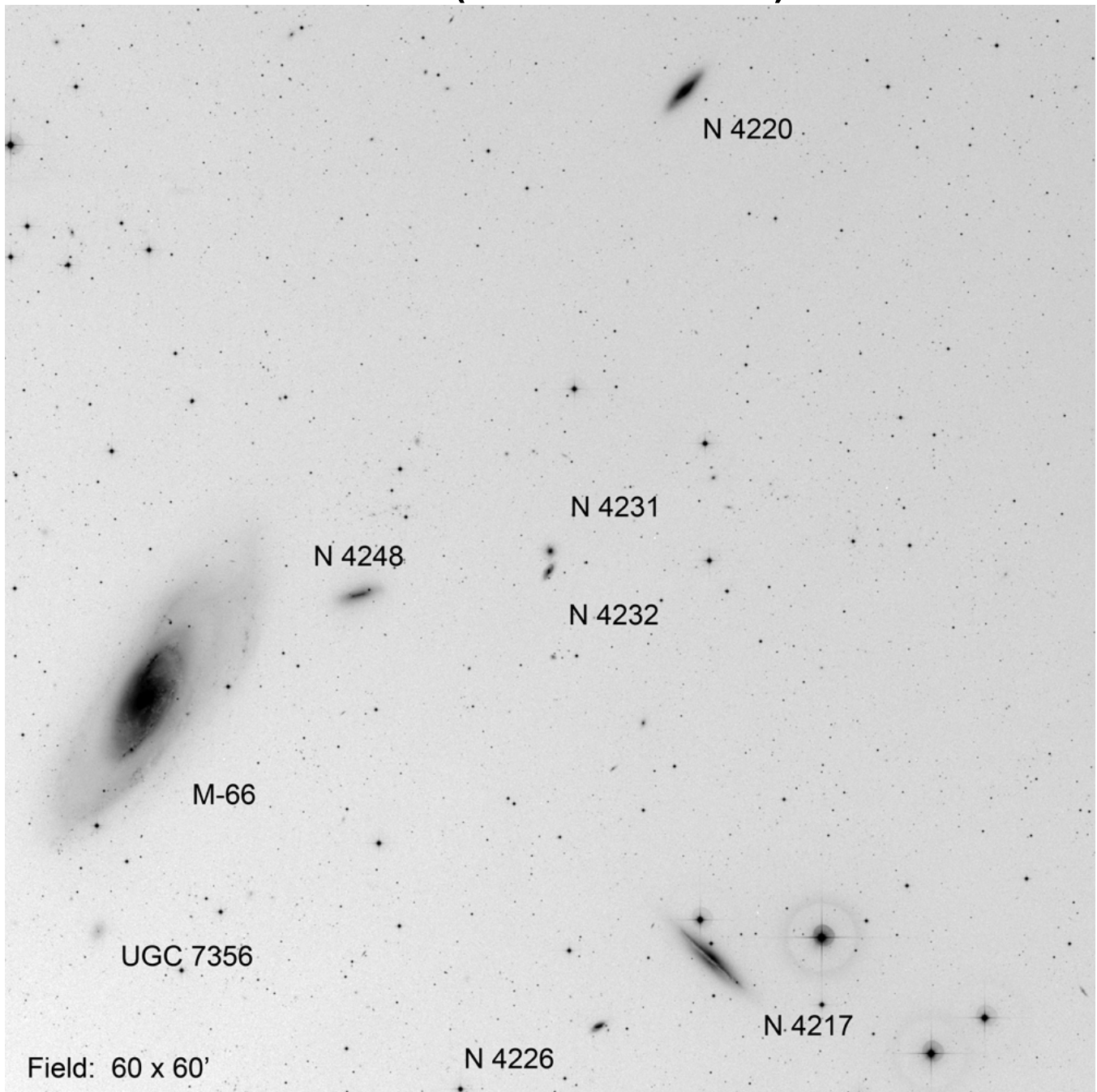
RA	Dec	Mag <sub>1</sub>	# of galaxies
11 58 10.1	+25 07 19	13.1	12

**Includes Arp 138**

# M 106 (Canes Venatici)

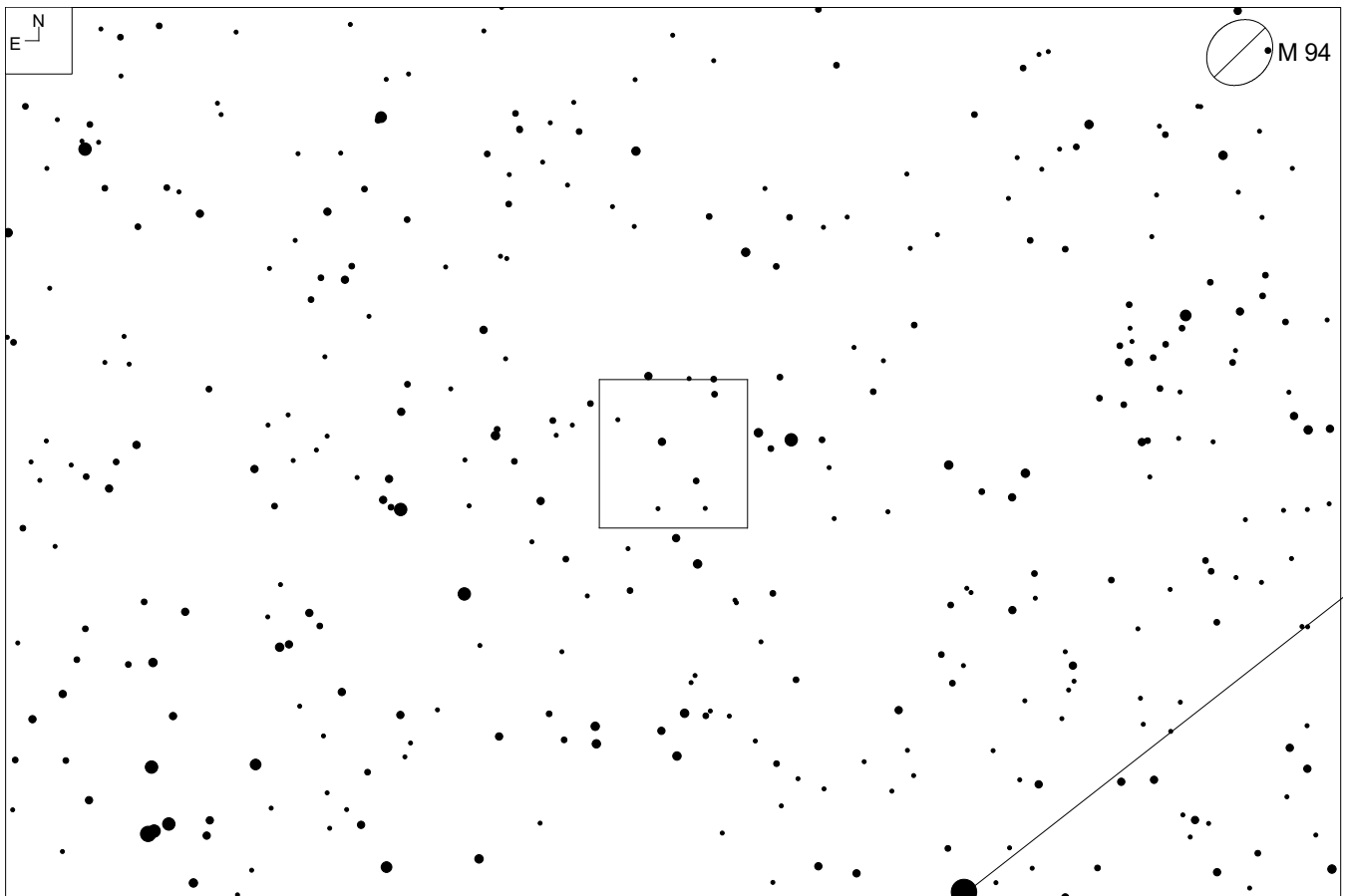
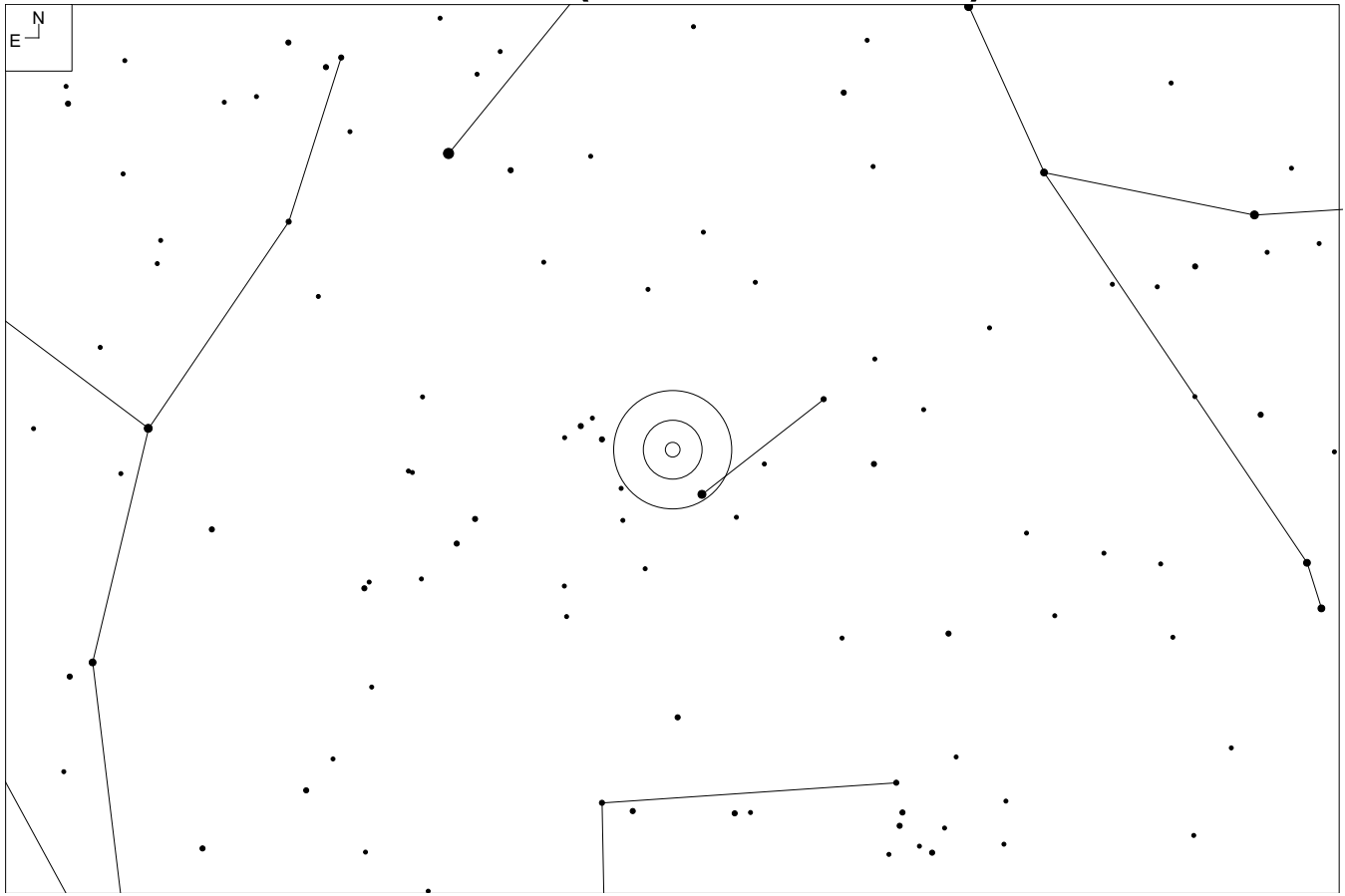


# M 106 (Canes Venatici)

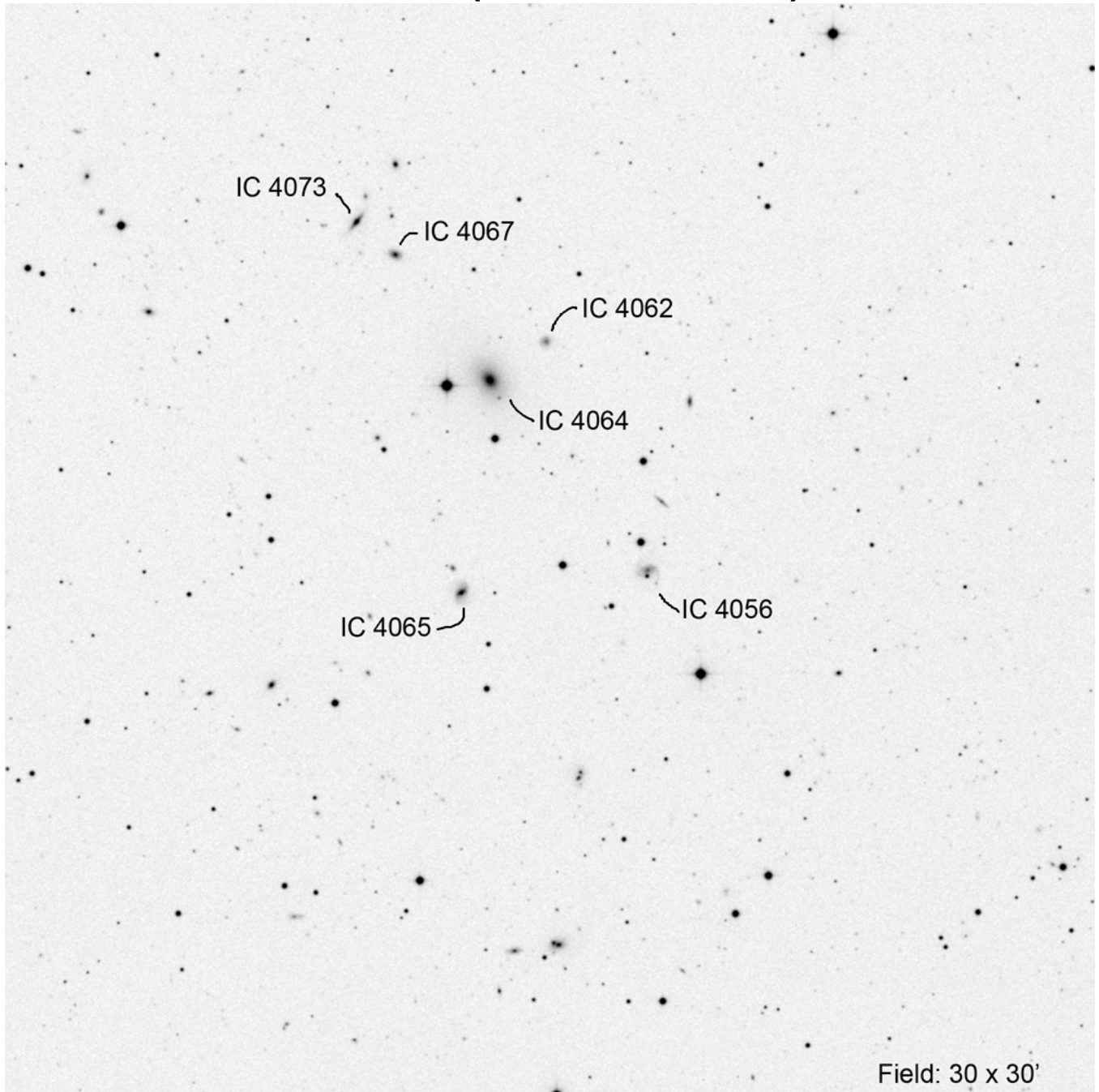


RA	Dec	Mag <sub>1</sub>	# of galaxies
12 18 57.3	+47 18 31	8.4	11

# IC 4064 (Canes Venatici)

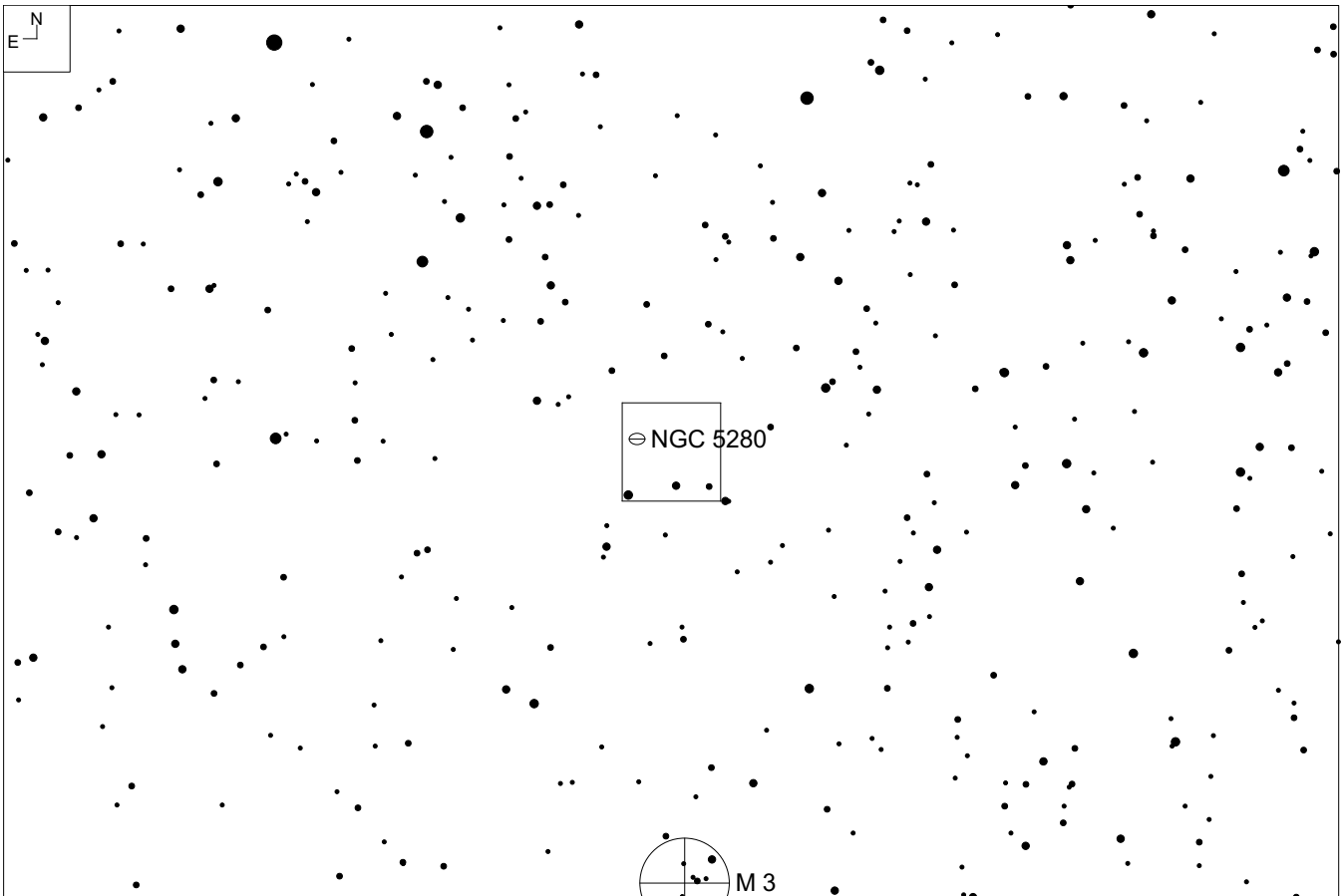
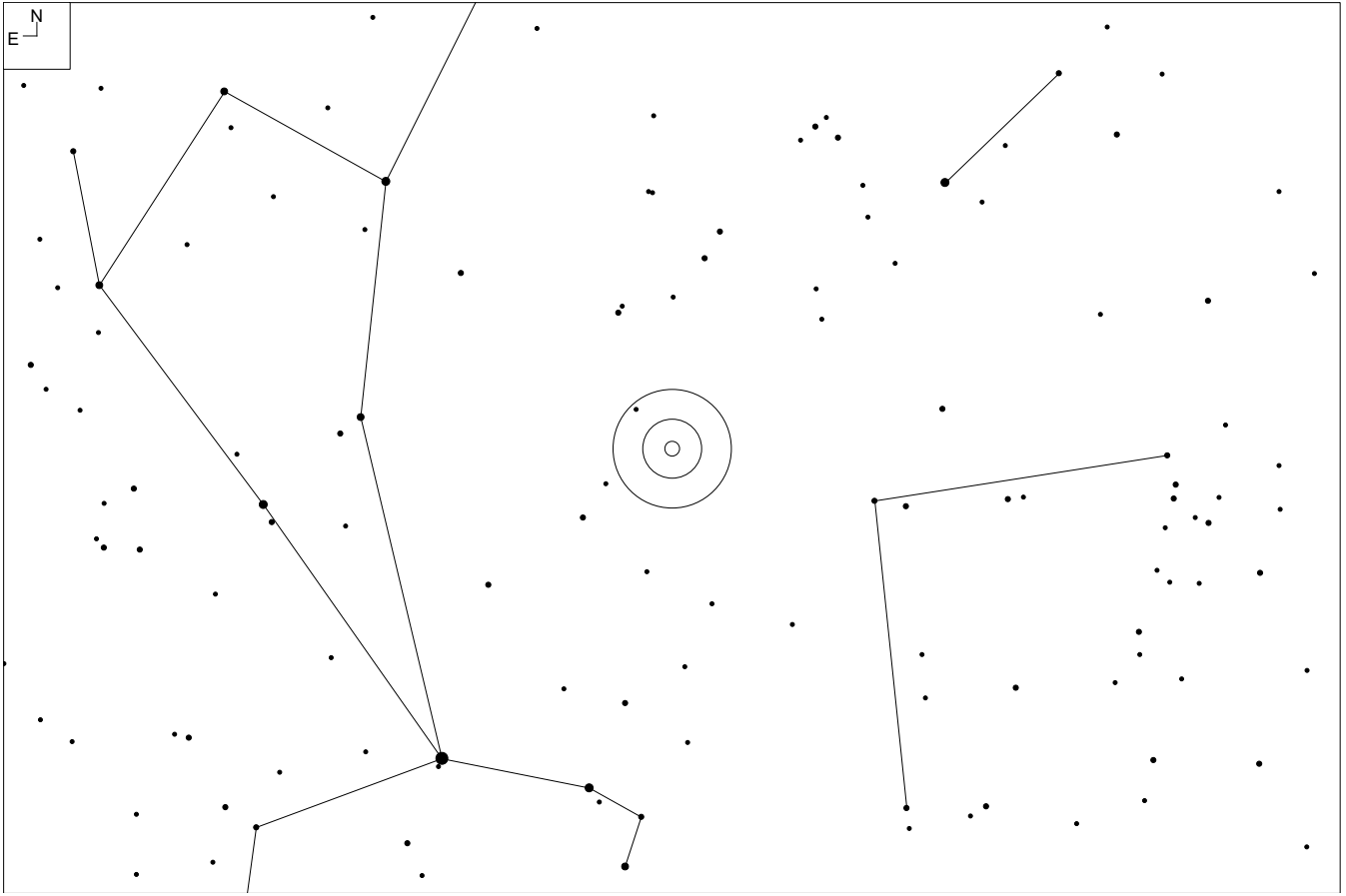


# IC 4064 (Canes Venatici)



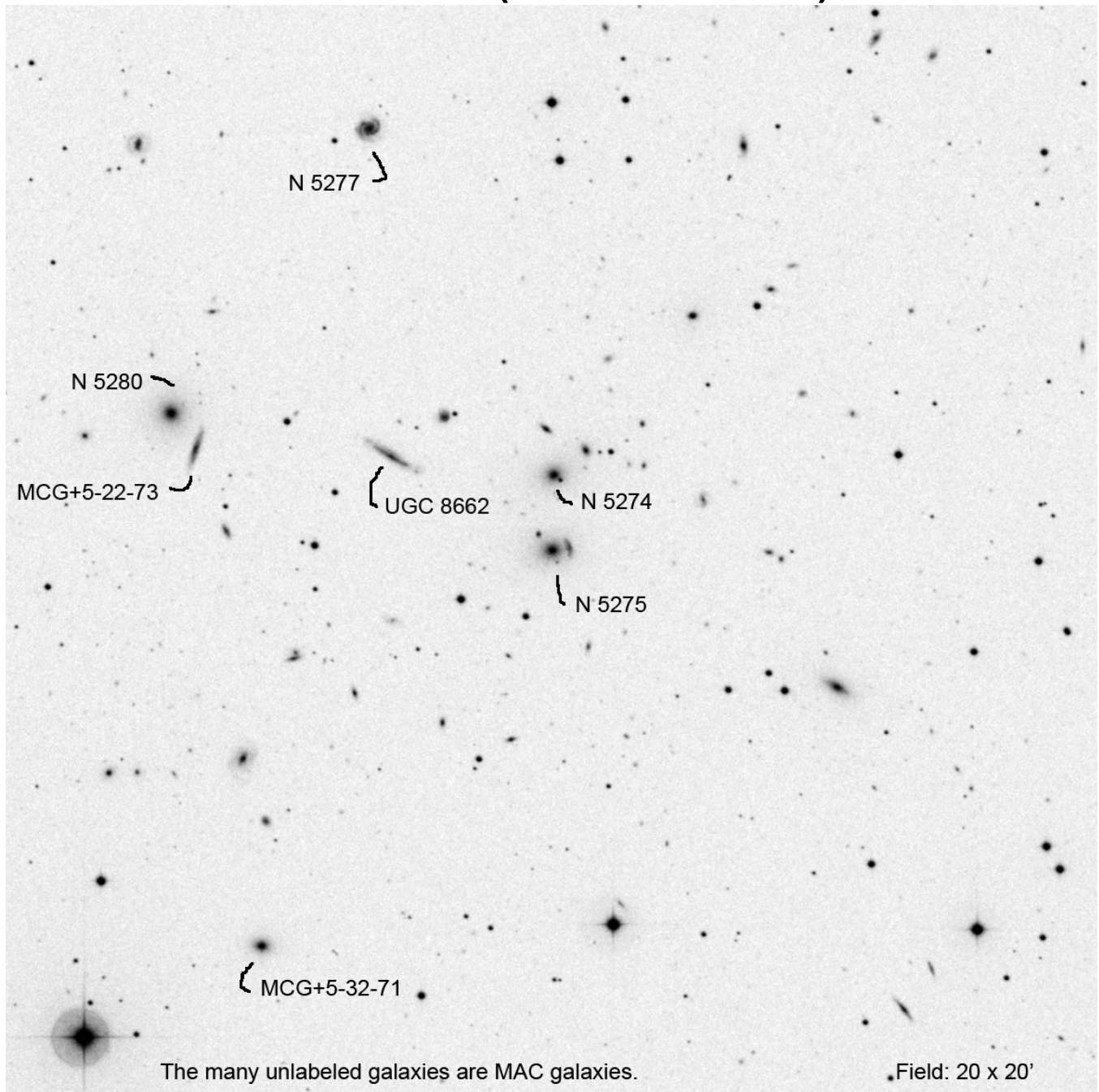
Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AWM 6	13 01 06.7	+39 50 29	14.7	6+

# NGC 5280 (Canes Venatici)



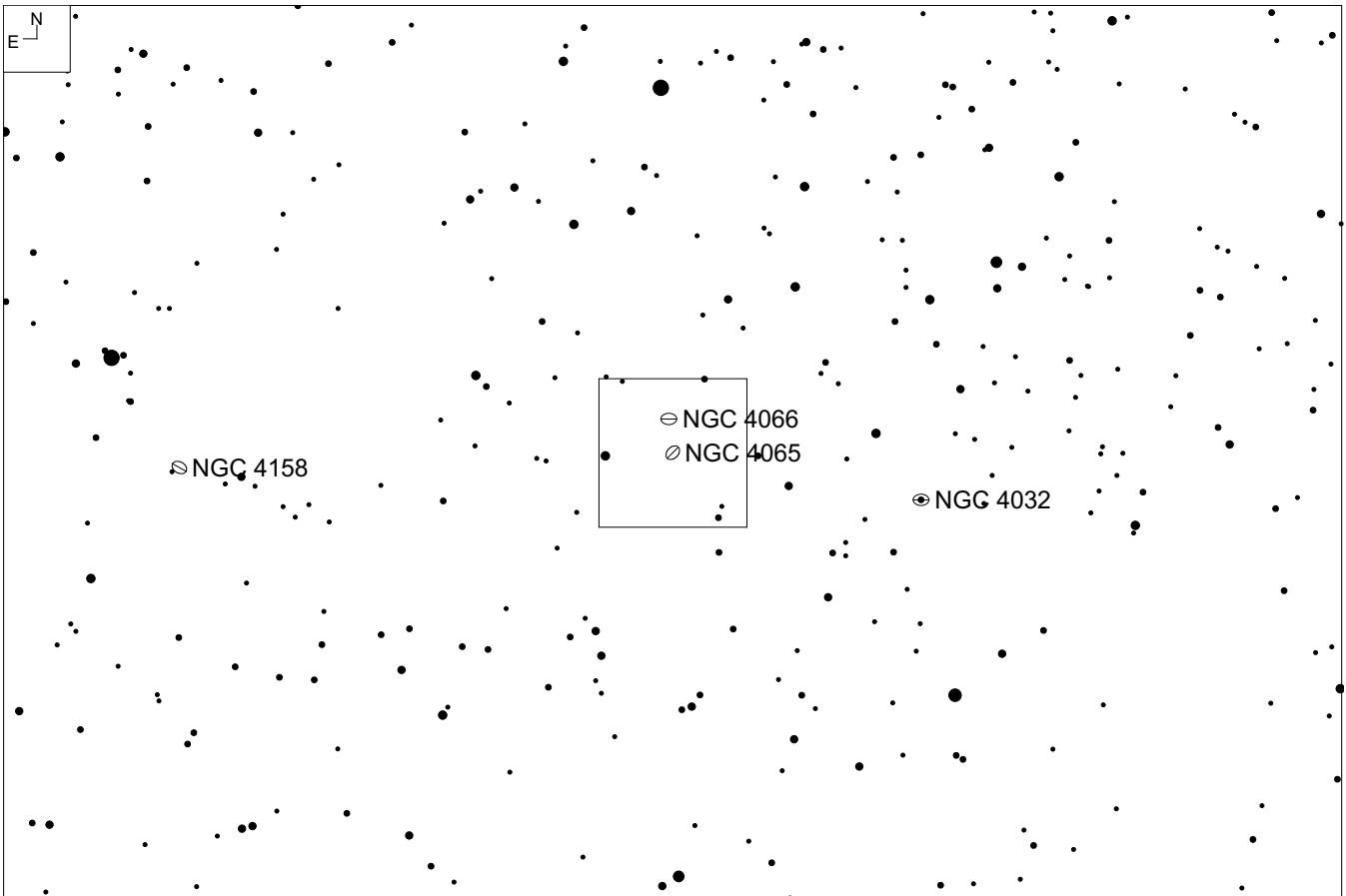
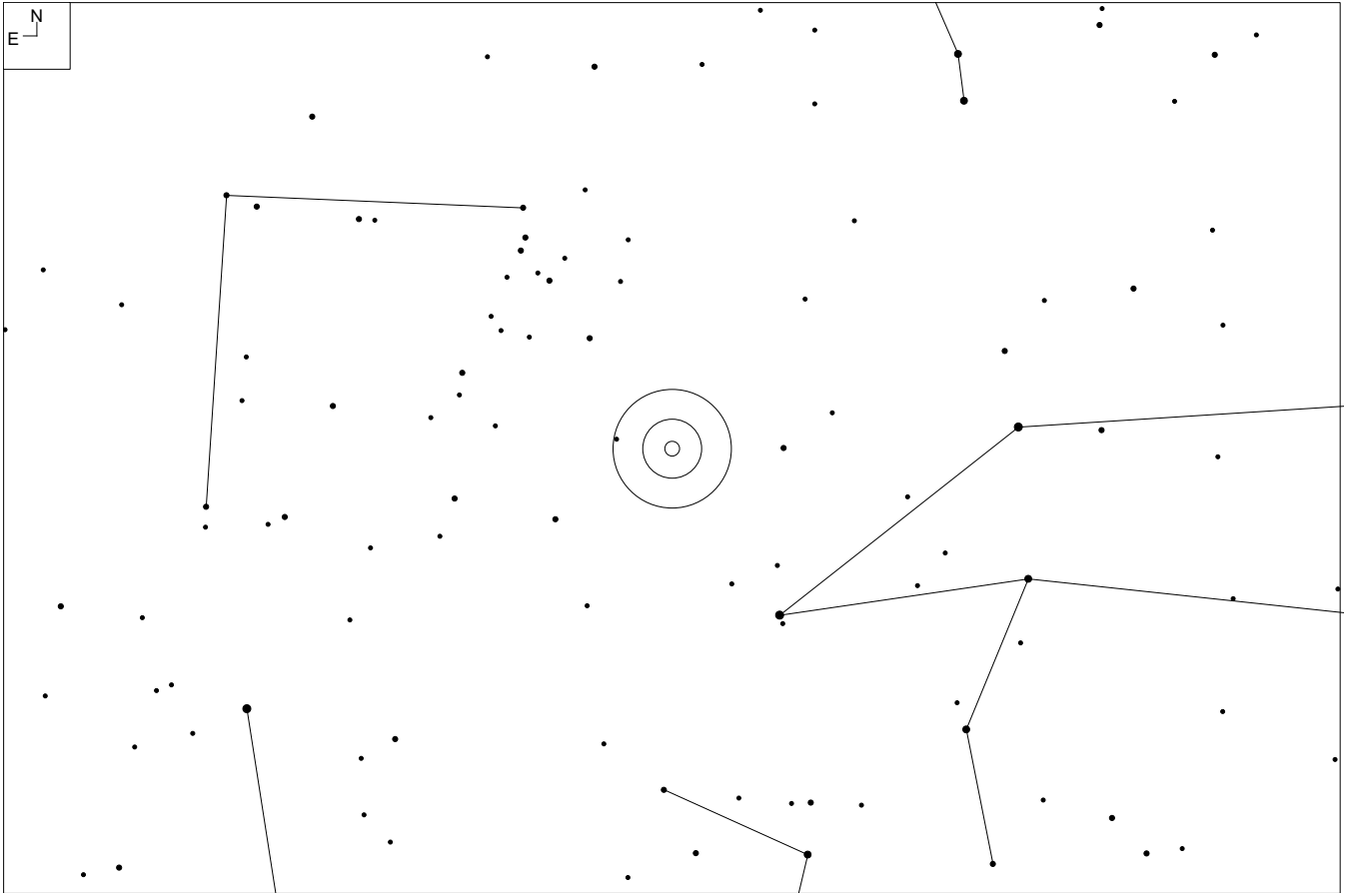


# NGC 5280 (Canes Venatici)

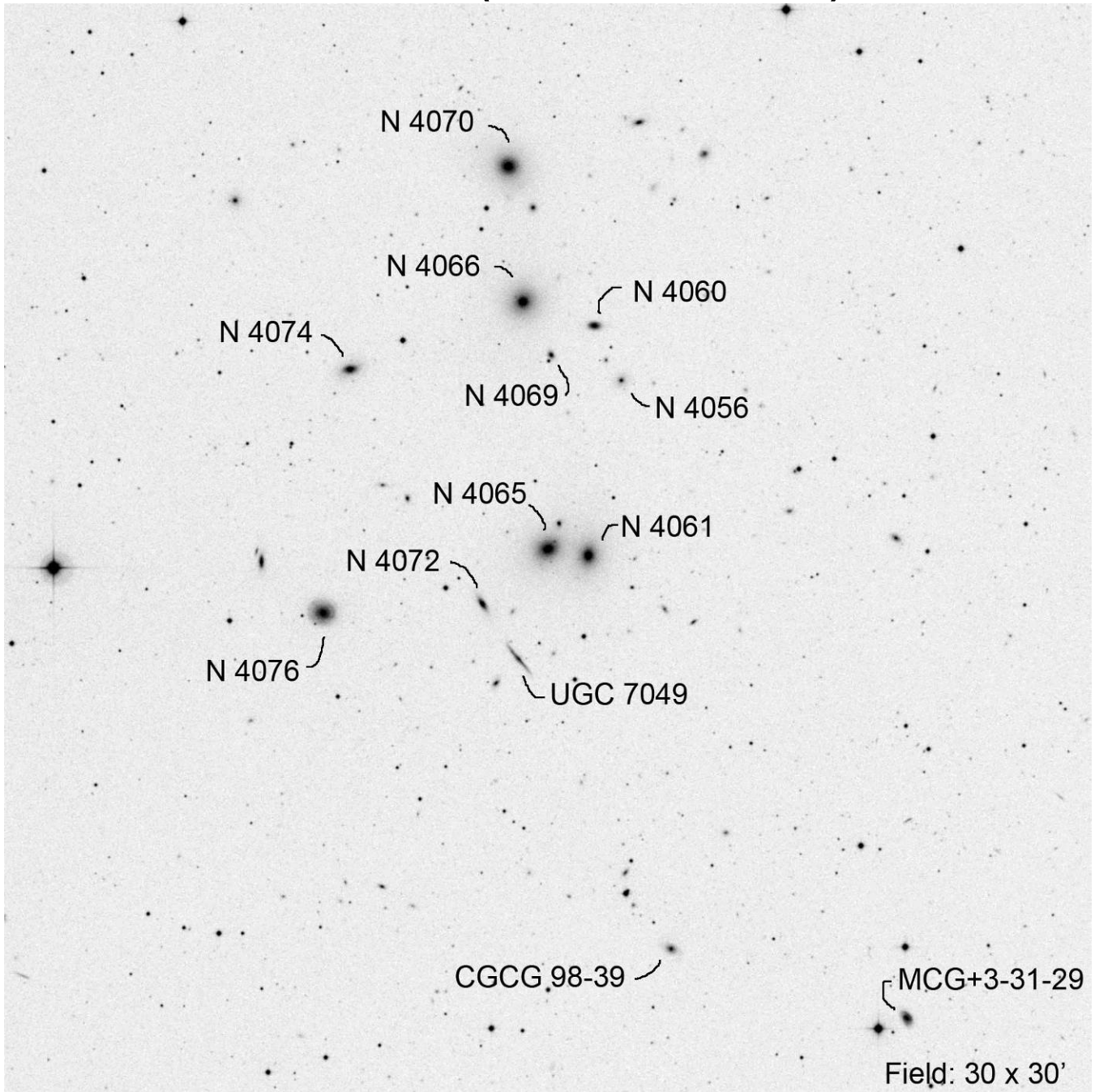


RA	Dec	Mag <sub>1</sub>	# of galaxies
13 42 55.6	+29 52 06	13.6	6

# NGC 4065 (Coma Berenices)

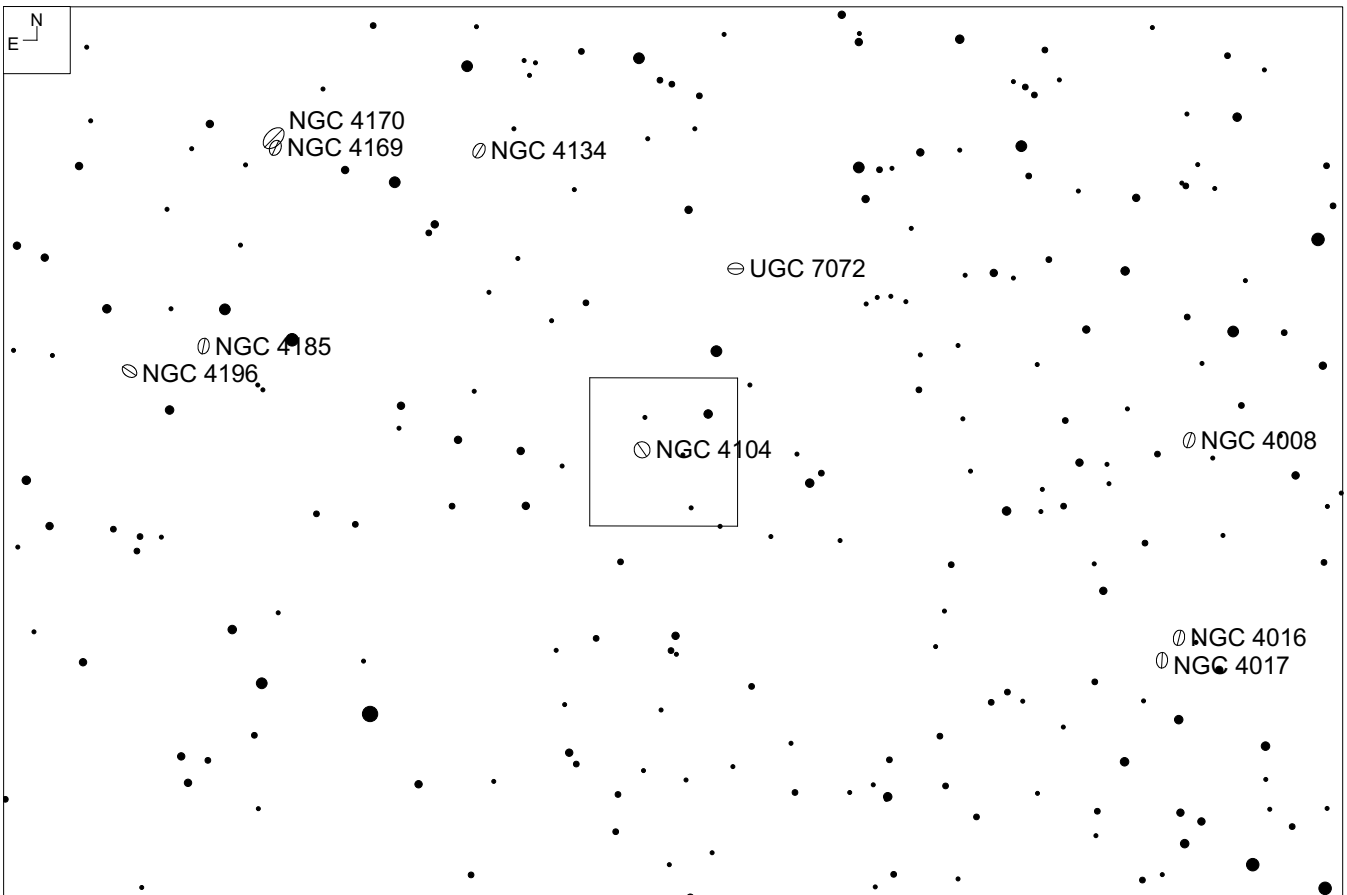
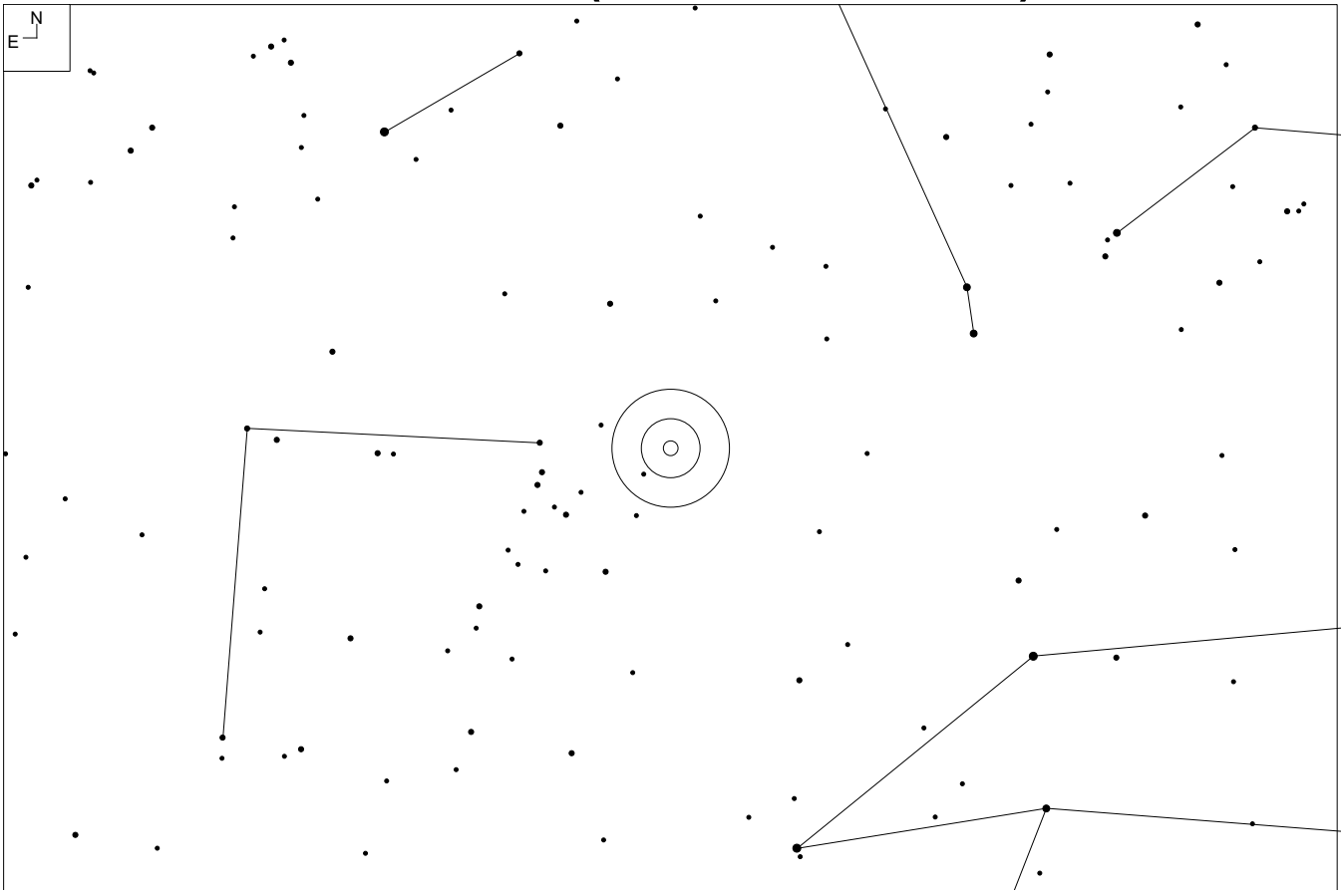


# NGC 4065 (Coma Berenices)

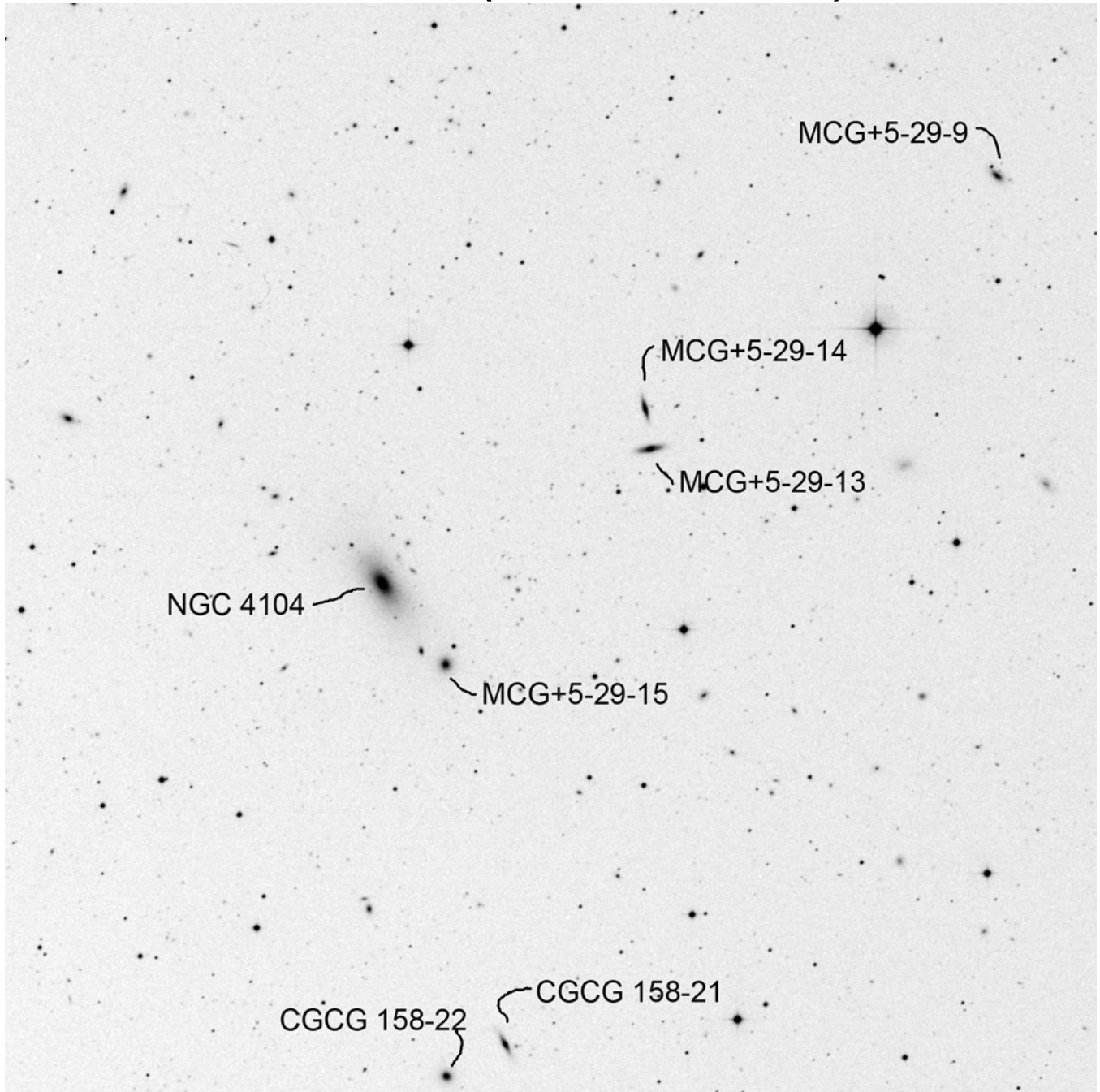


RA	Dec	Mag <sub>1</sub>	# of galaxies
12 04 06.2	+20 14 07	12.6	20

# NGC 4104 (Coma Berenices)

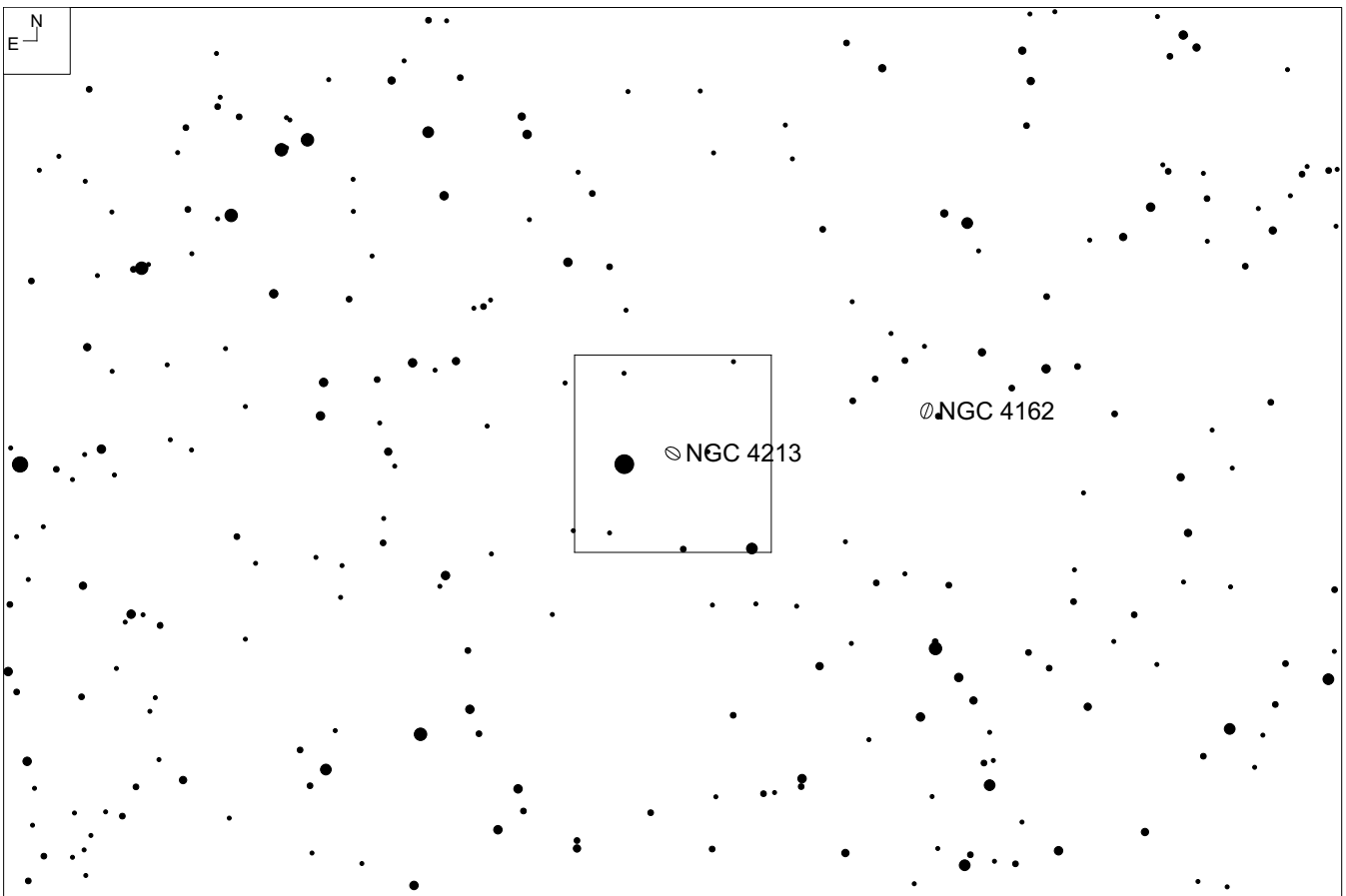
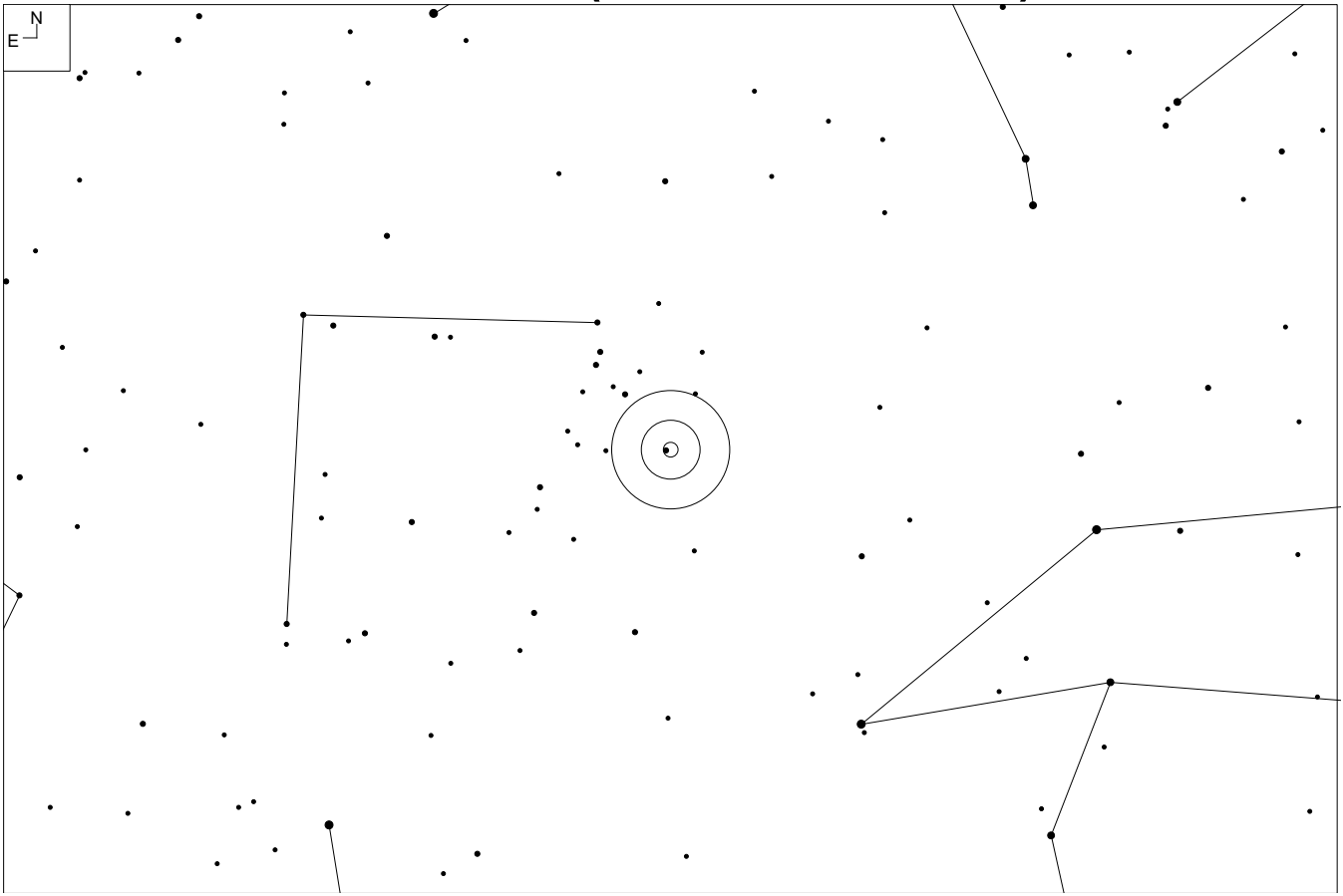


# NGC 4104 (Coma Berenices)

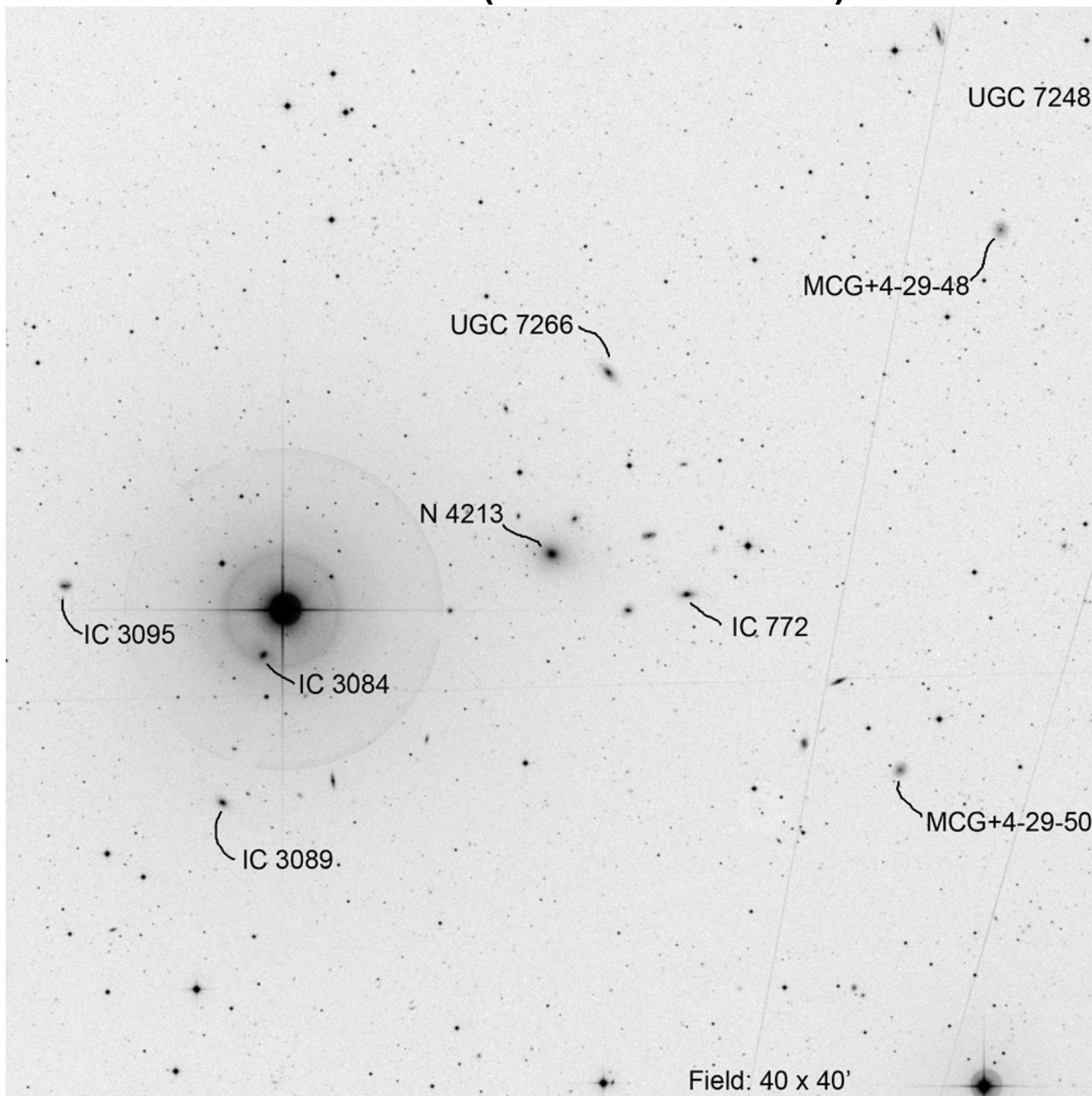


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 4s	12 06 38.9	+28 10 27	13.1	10+

# NGC 4213 (Coma Berenices)

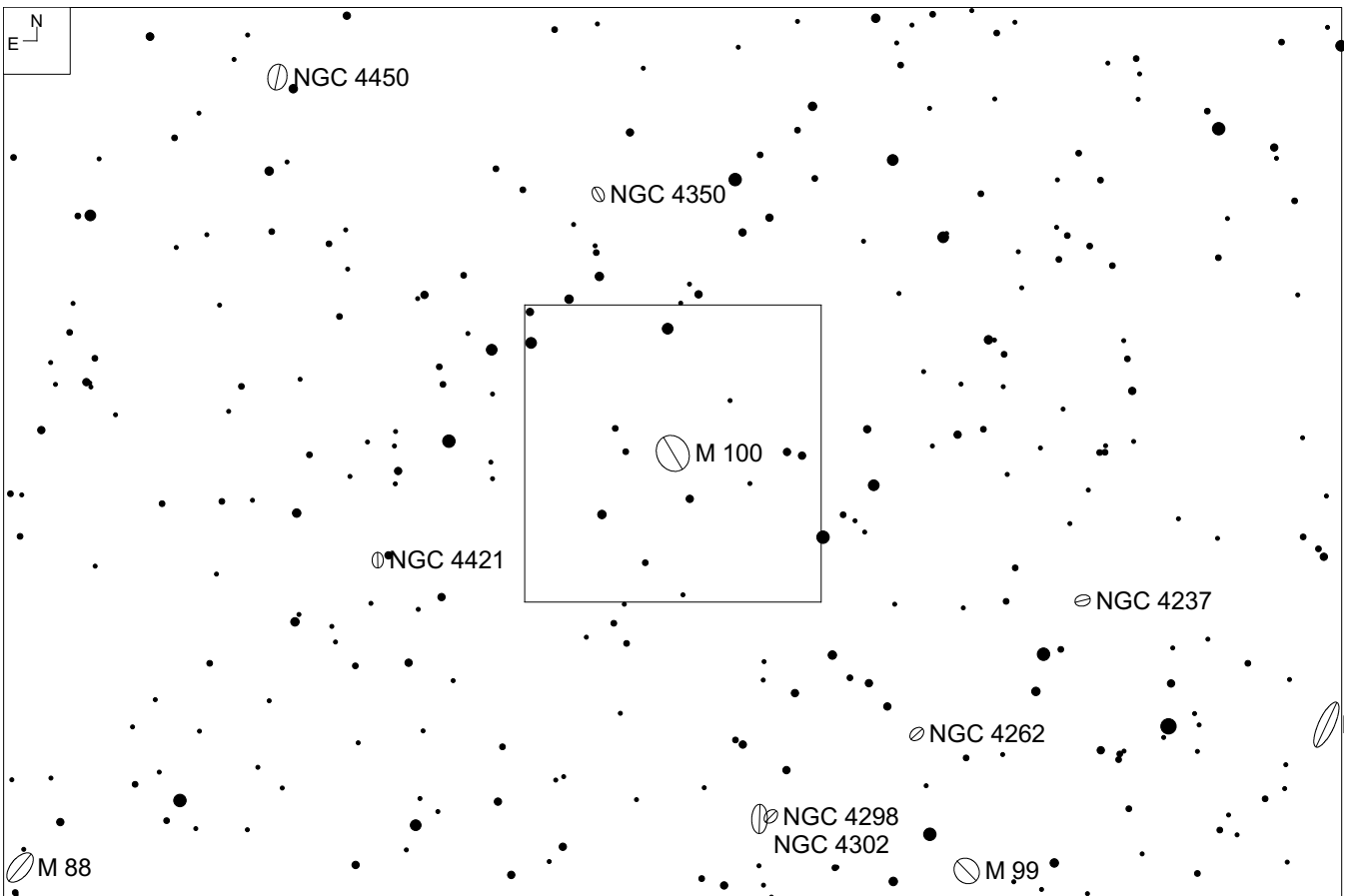
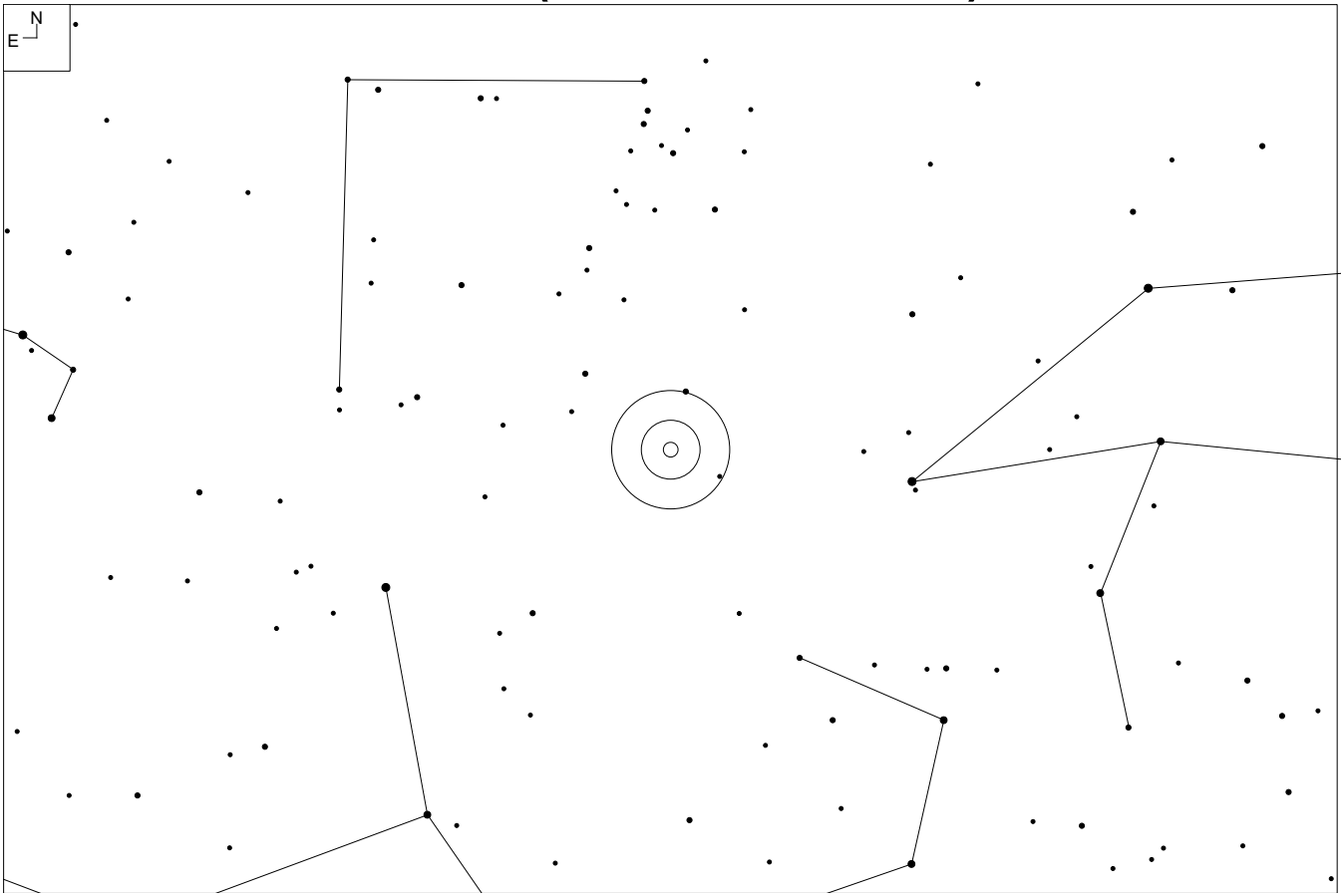


# NGC 4213 (Coma Berenices)



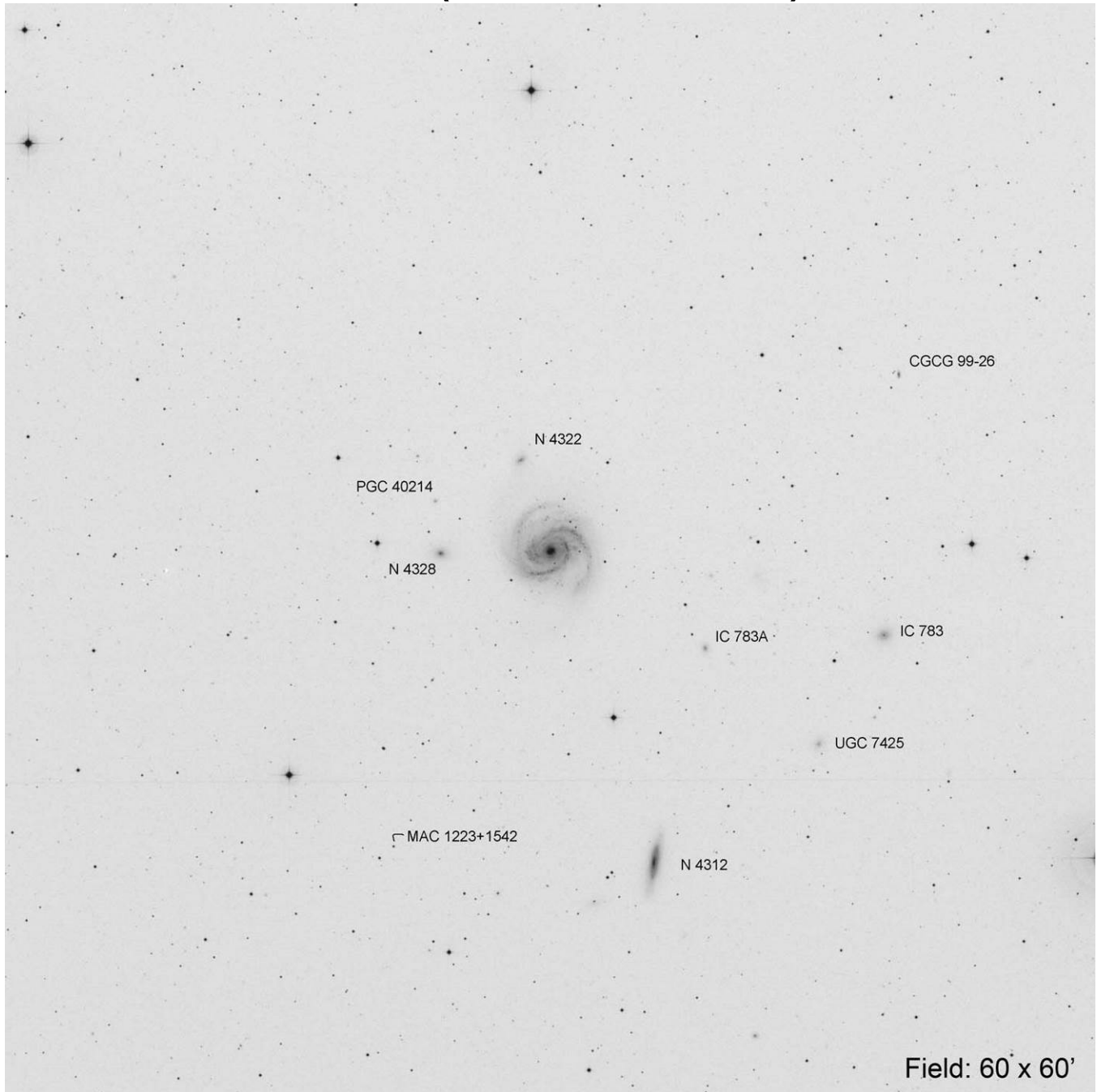
Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AWM 2	12 15 37.6	+23 58 56	13.5	16

# M 100 (Coma Berenices)



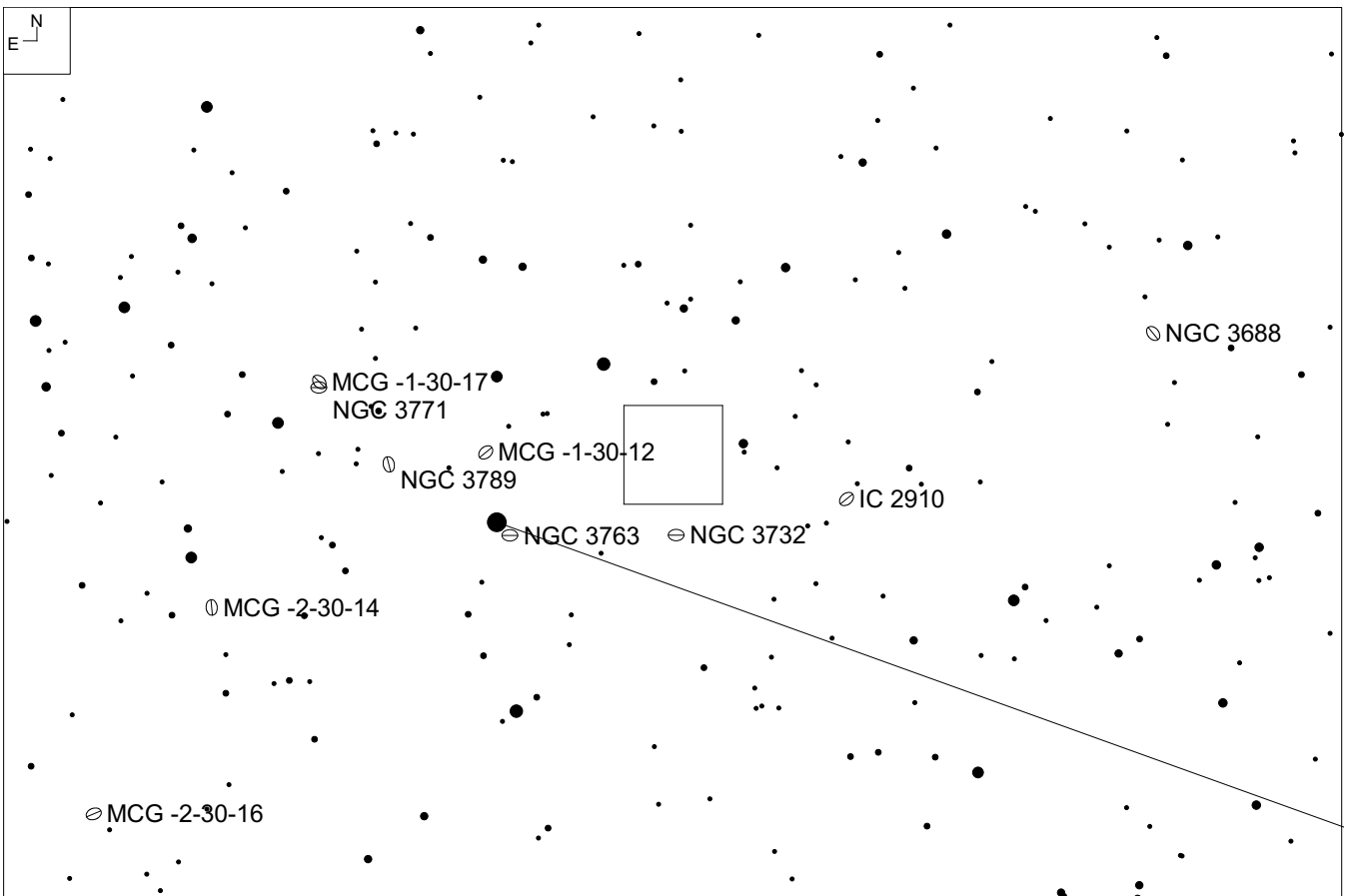
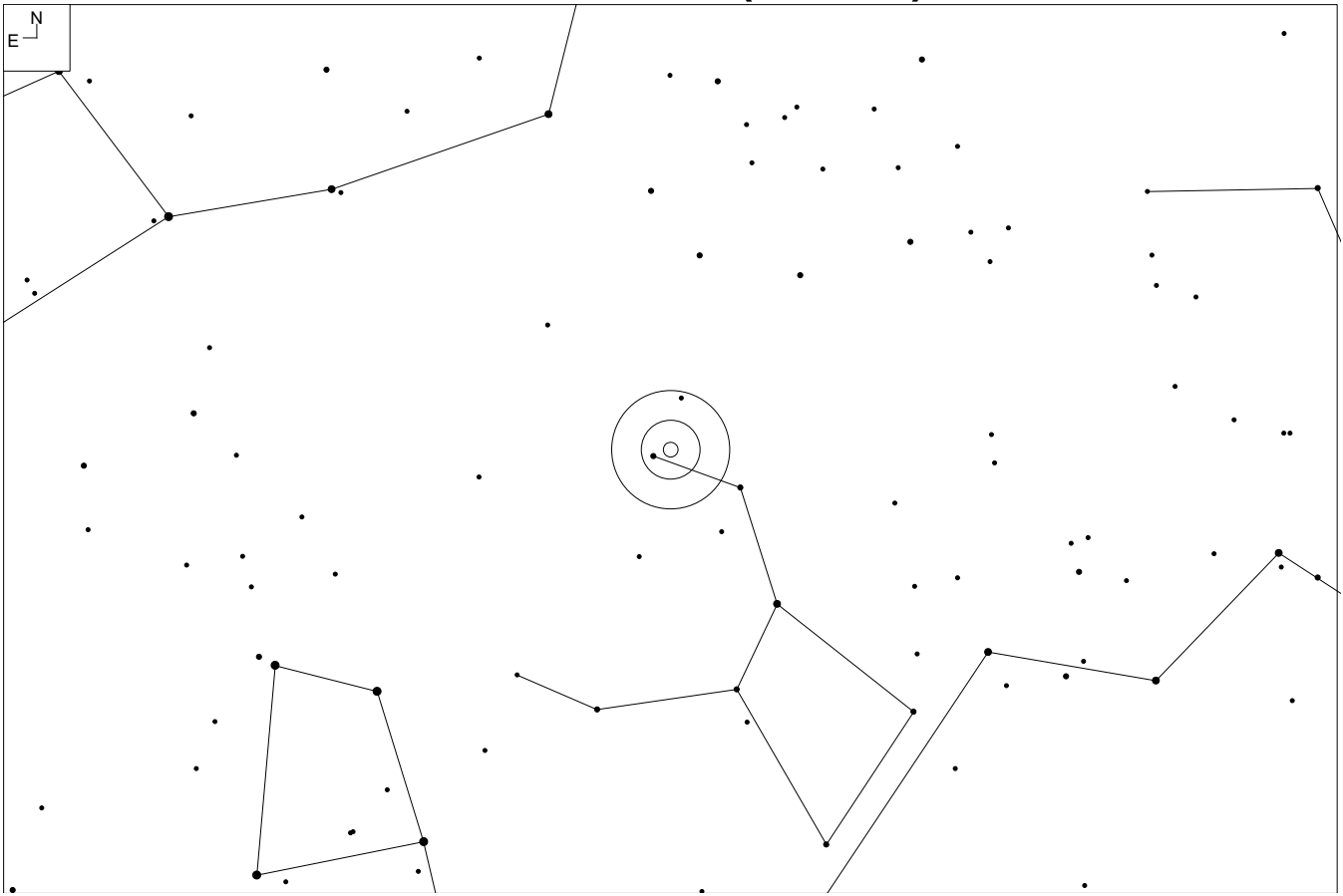


# M 100 (Coma Berenices)

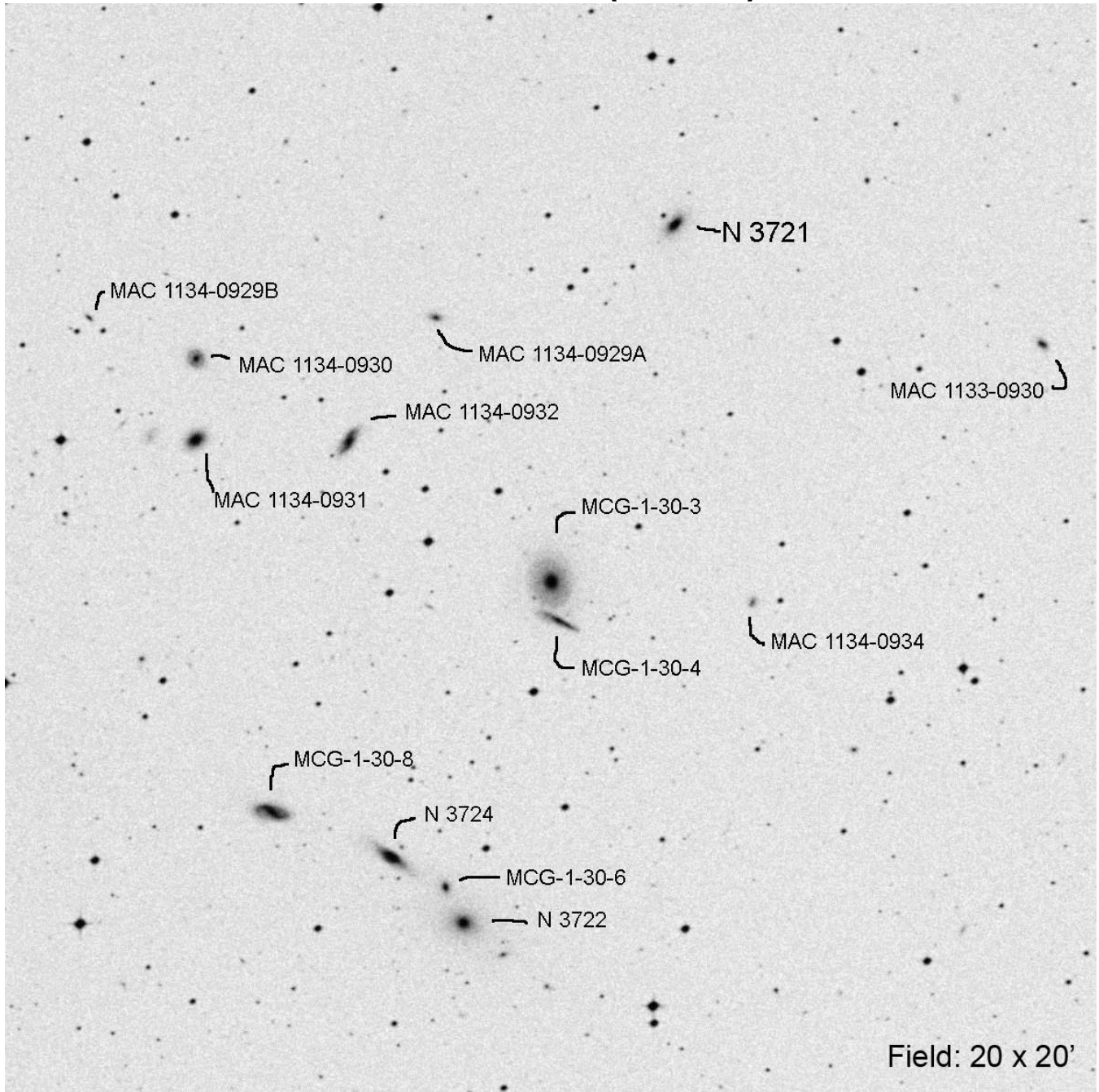


RA	Dec	Mag <sub>1</sub>	# of galaxies
12 22 55.0	+15 49 25	9.3	10

# MCG-1-30-3 (Crater)



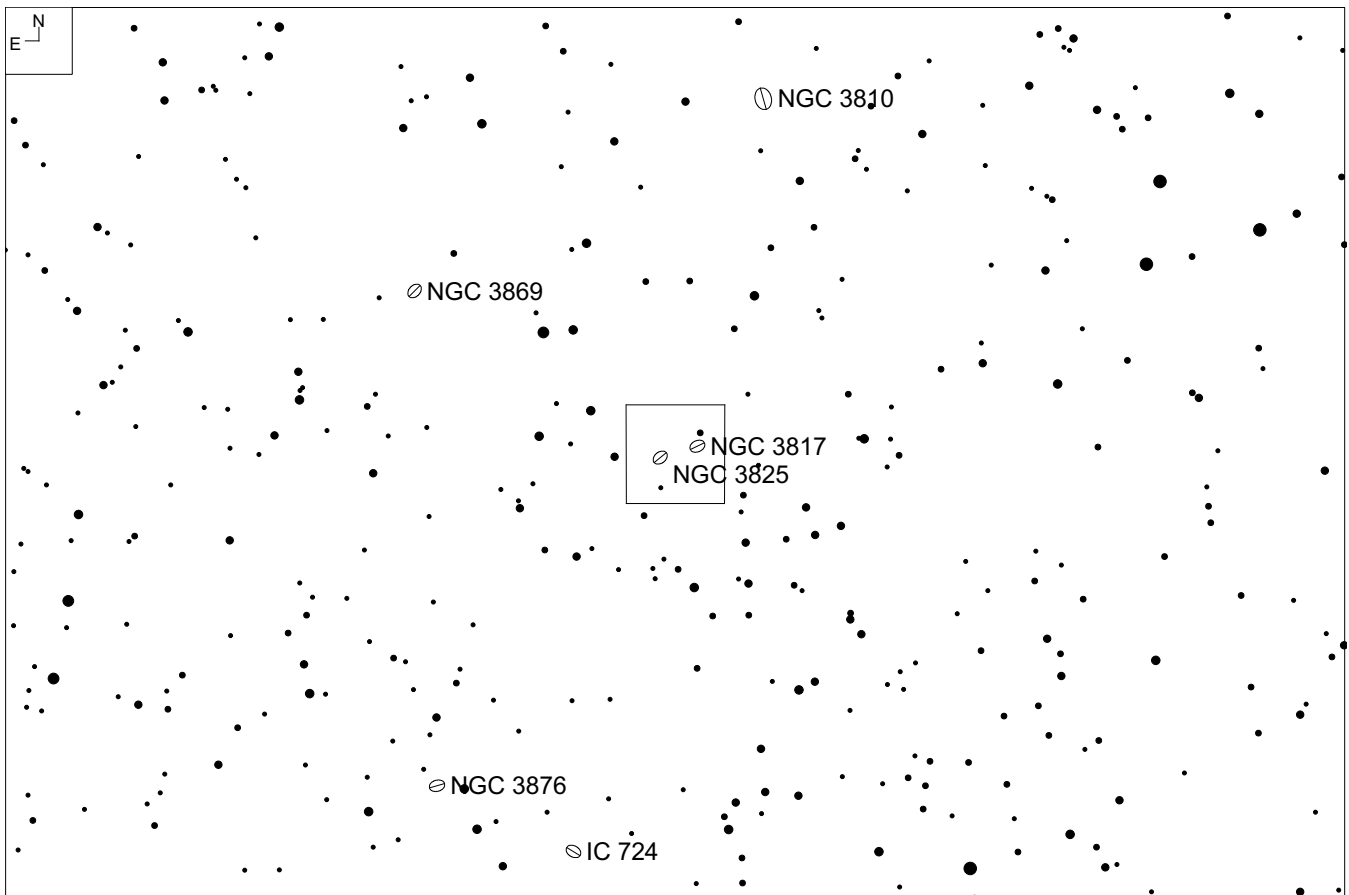
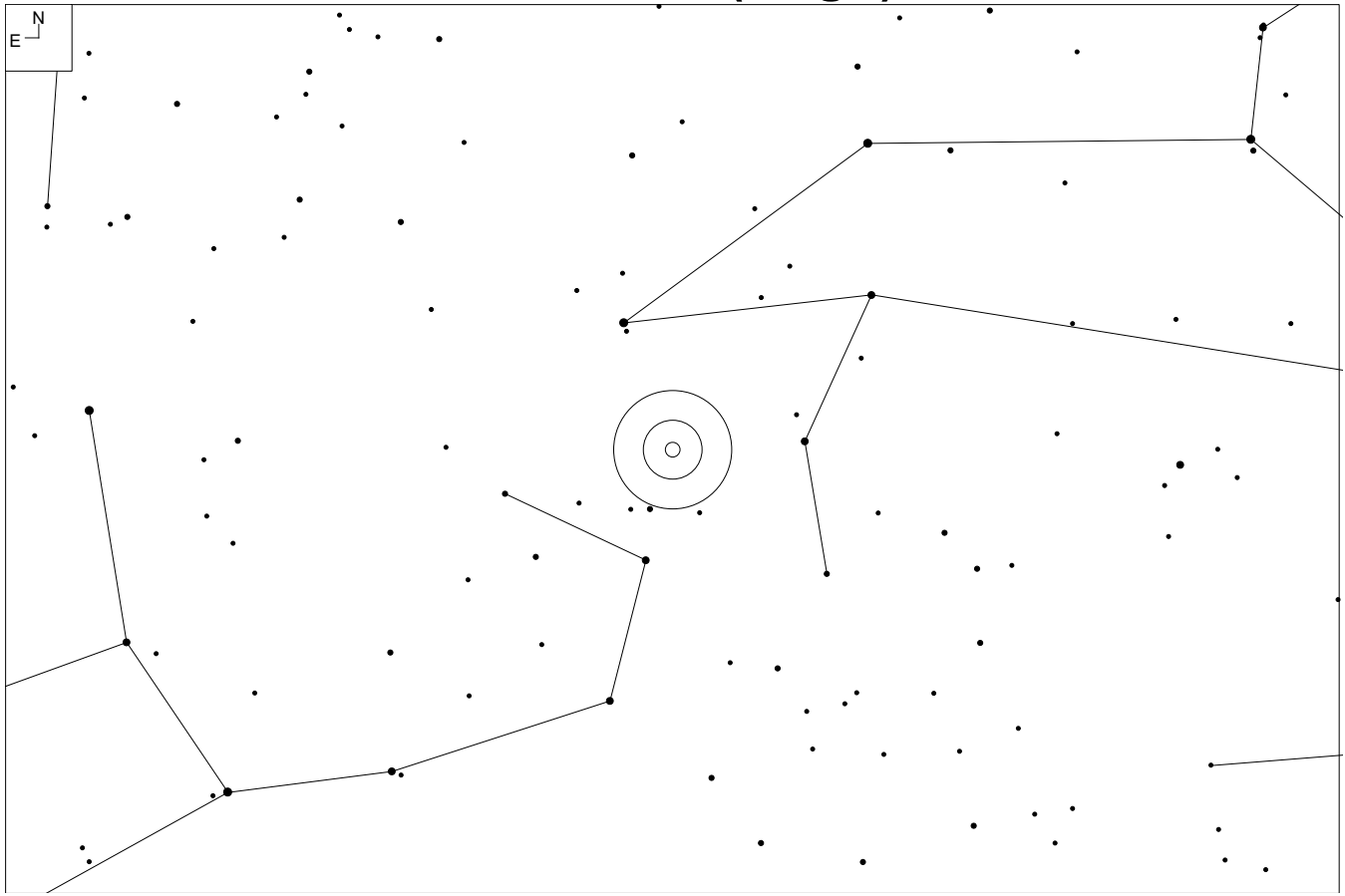
# MCG-1-30-3 (Crater)



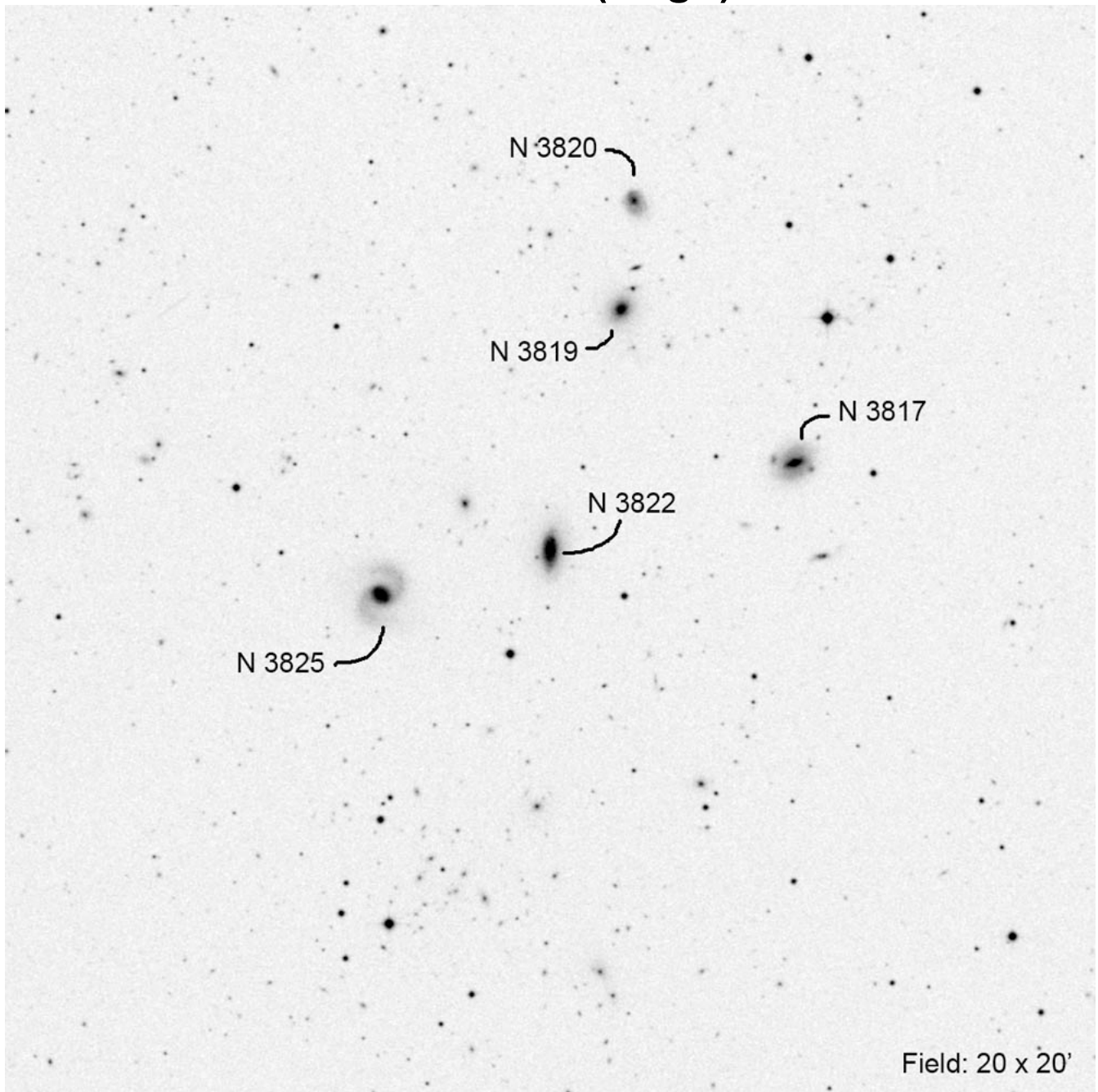
Field: 20 x 20'

RA	Dec	Mag <sub>1</sub>	# of galaxies
11 34 16.9	-09 34 33	14.1	9

# NGC 3822 (Virgo)

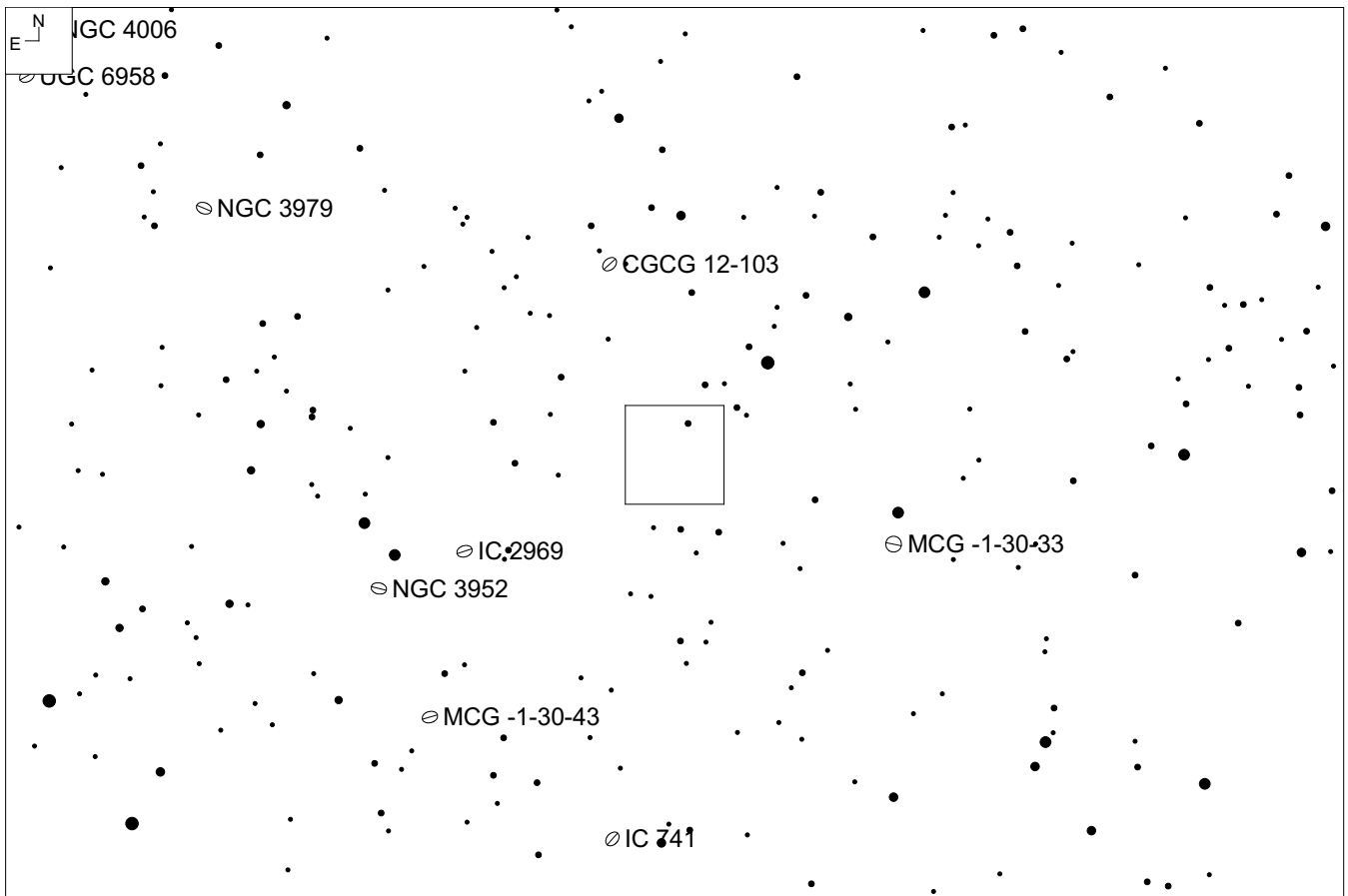
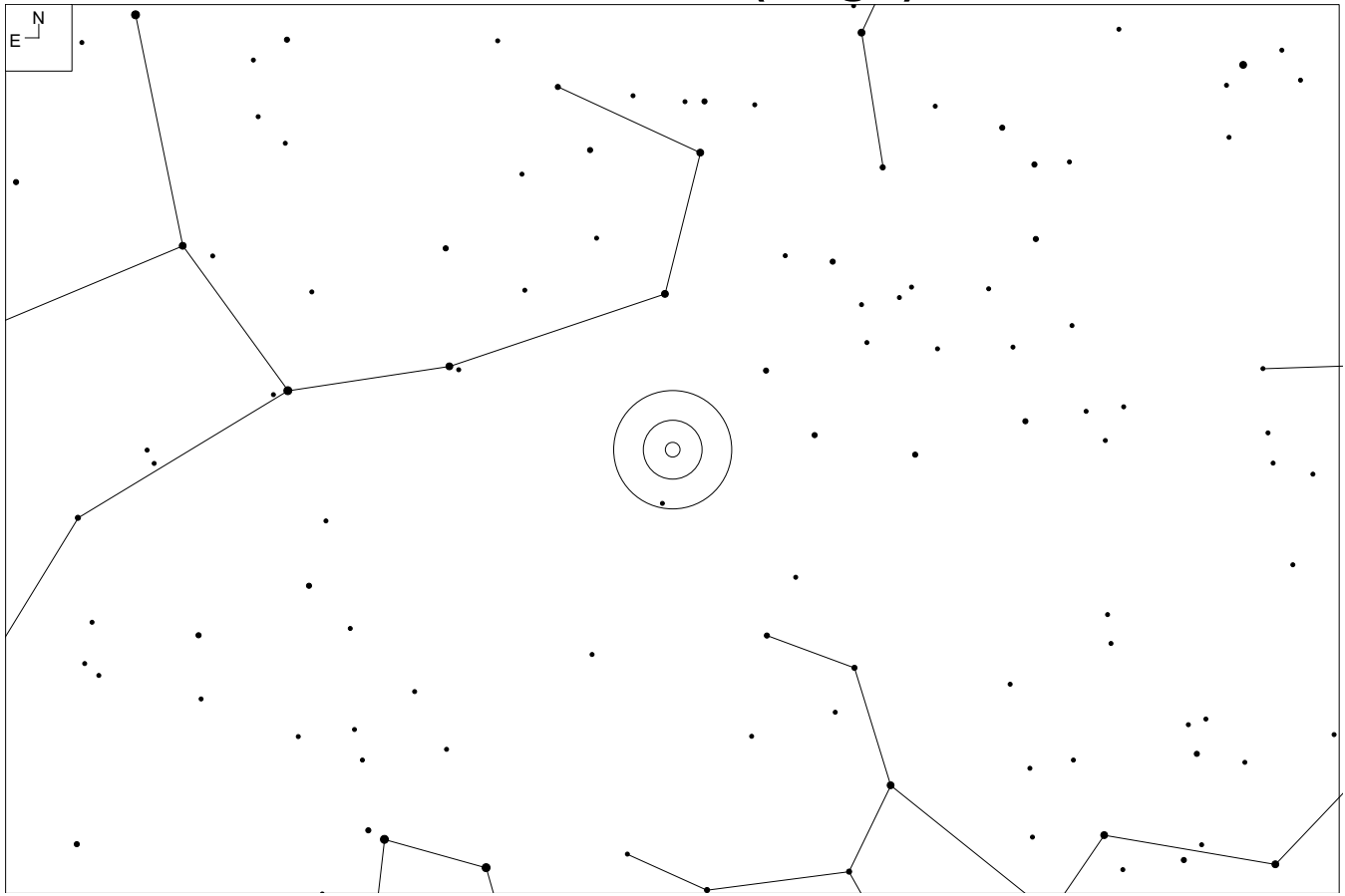


# NGC 3822 (Virgo)

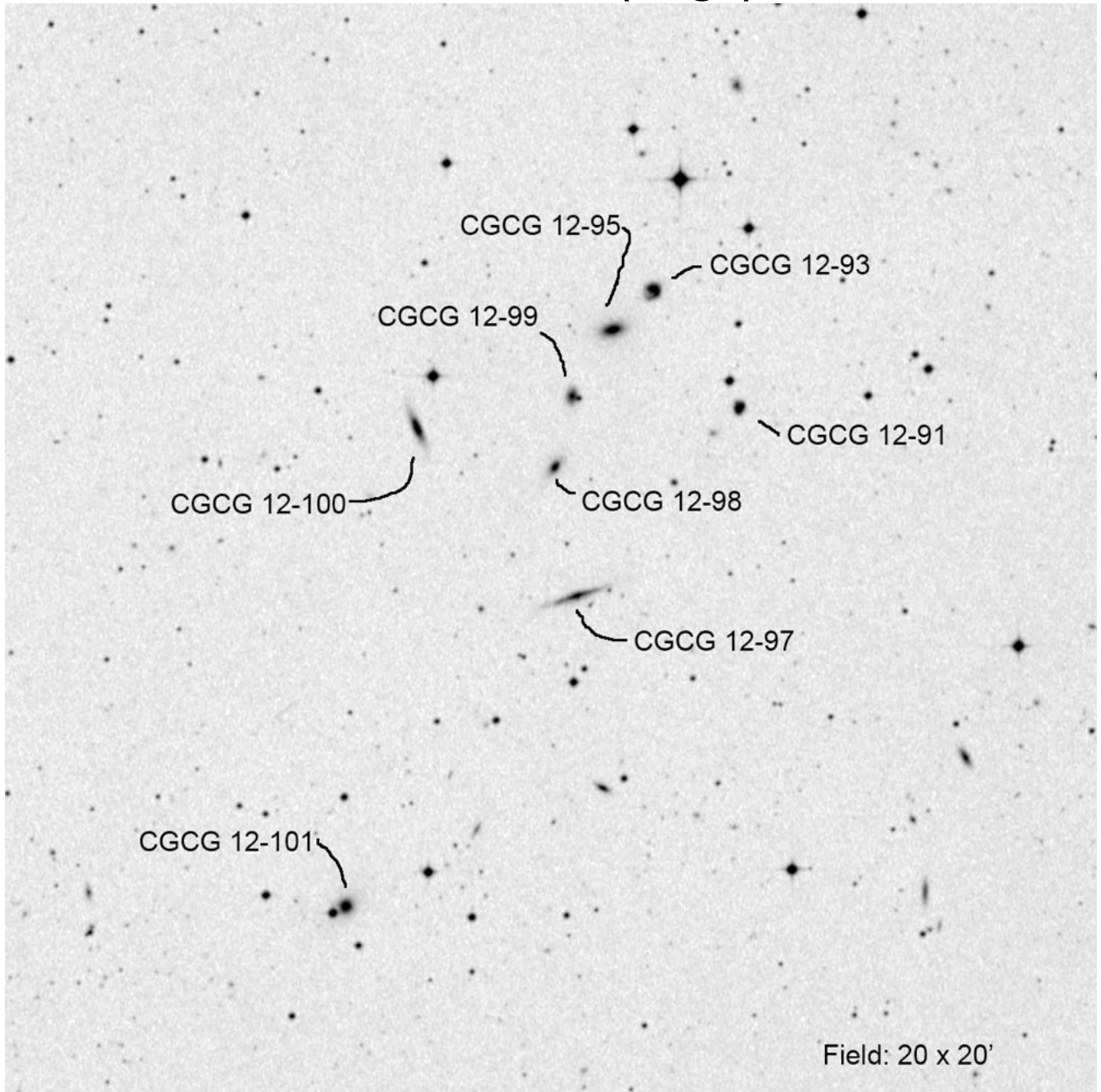


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 10 Hickson 58	11 42 11.2	+10 16 40	14.1	5+

# CGCG 12-99 (Virgo)

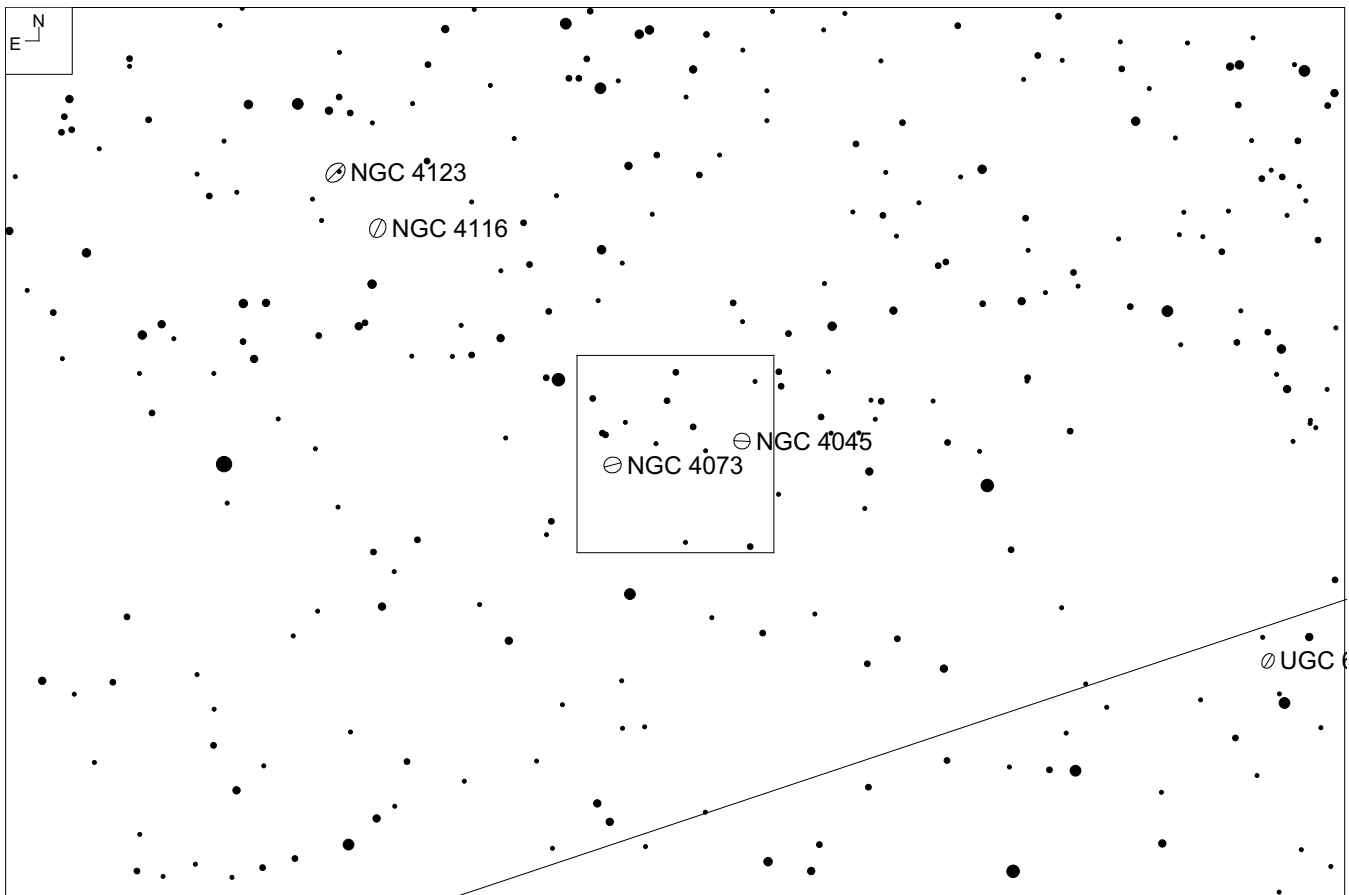
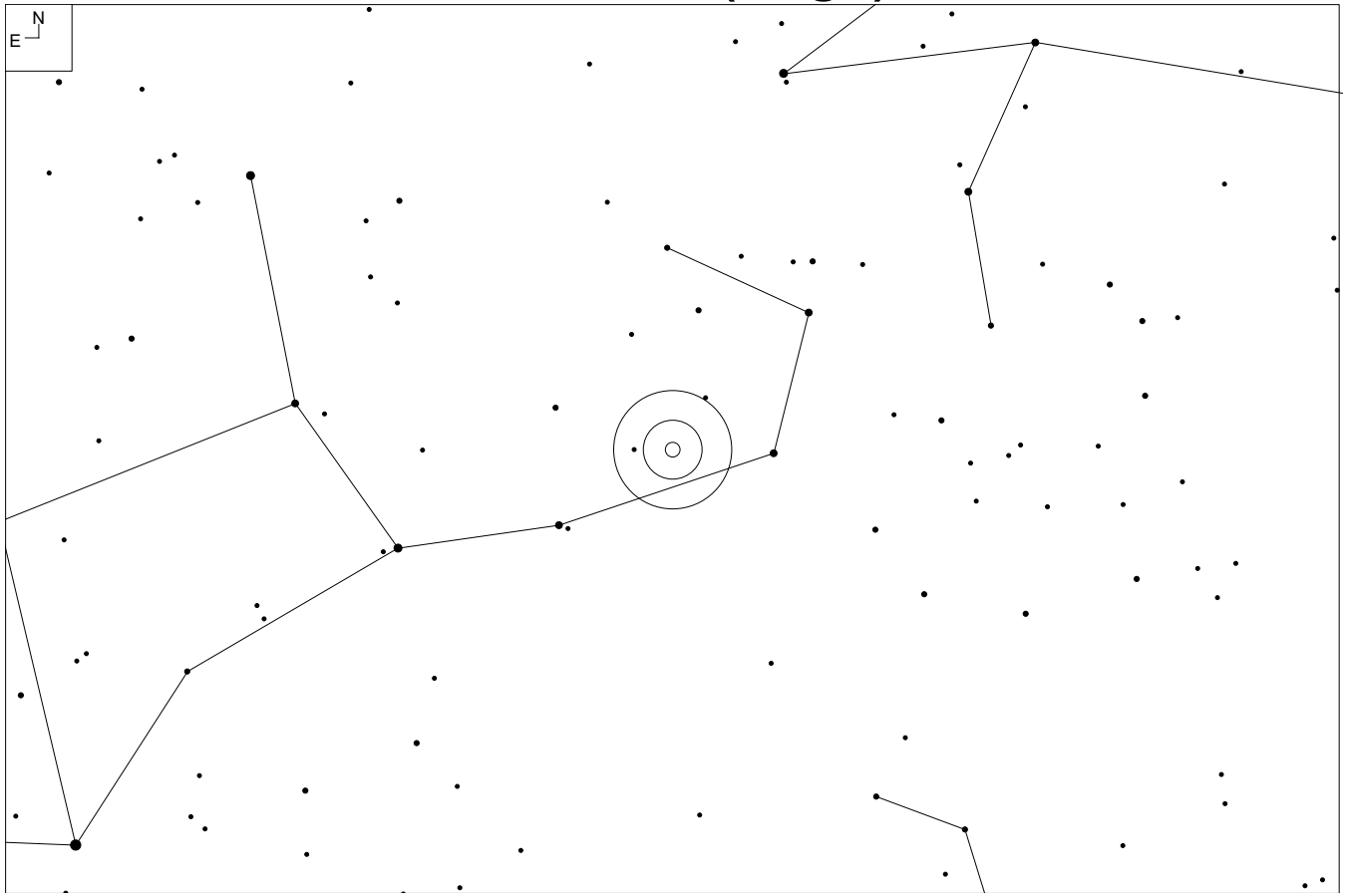


# CGCG 12-99 (Virgo)



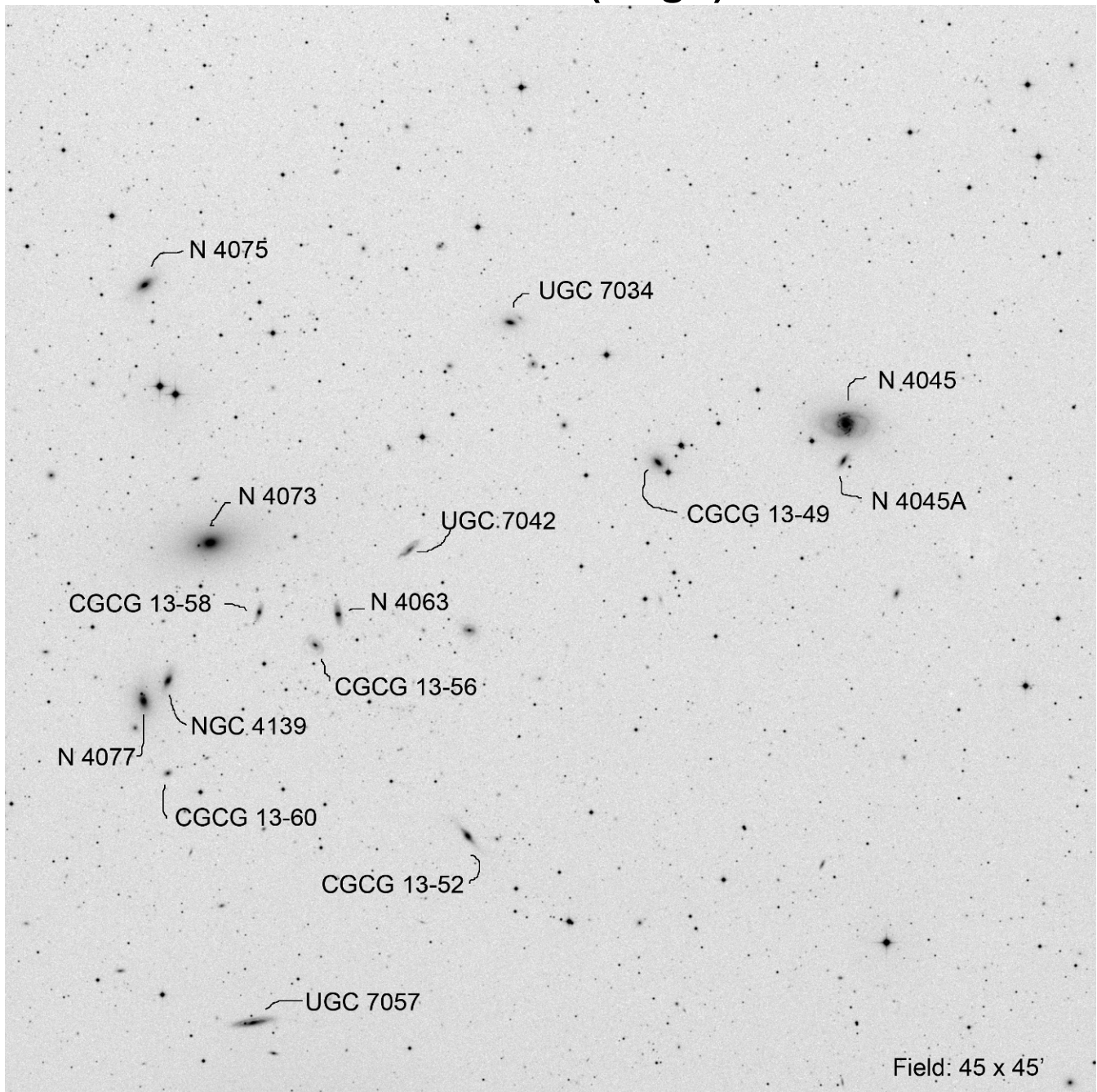
Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 3	11 49 41.0	-03 30 34	14.2	7

# NGC 4073 (Virgo)



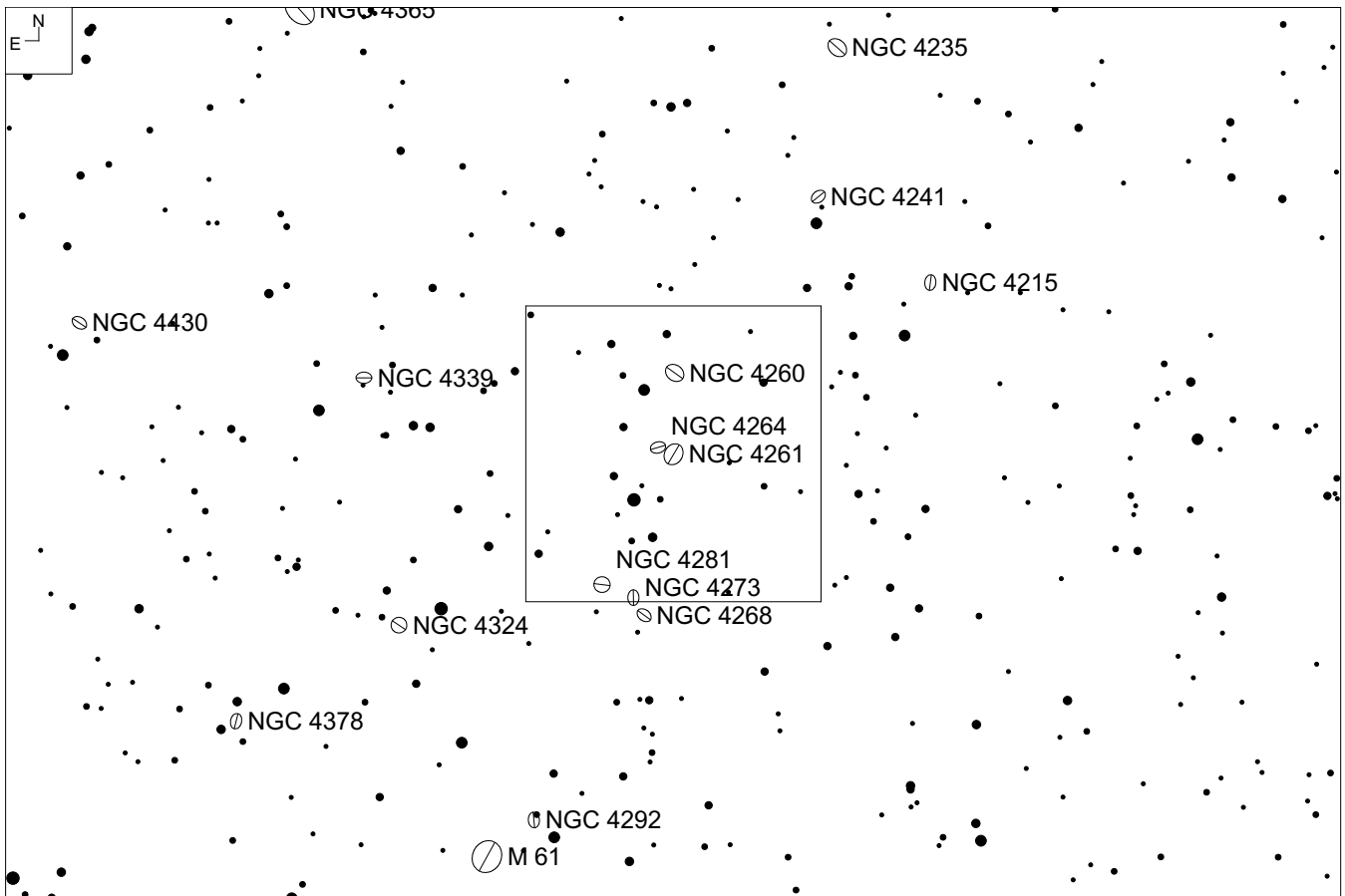
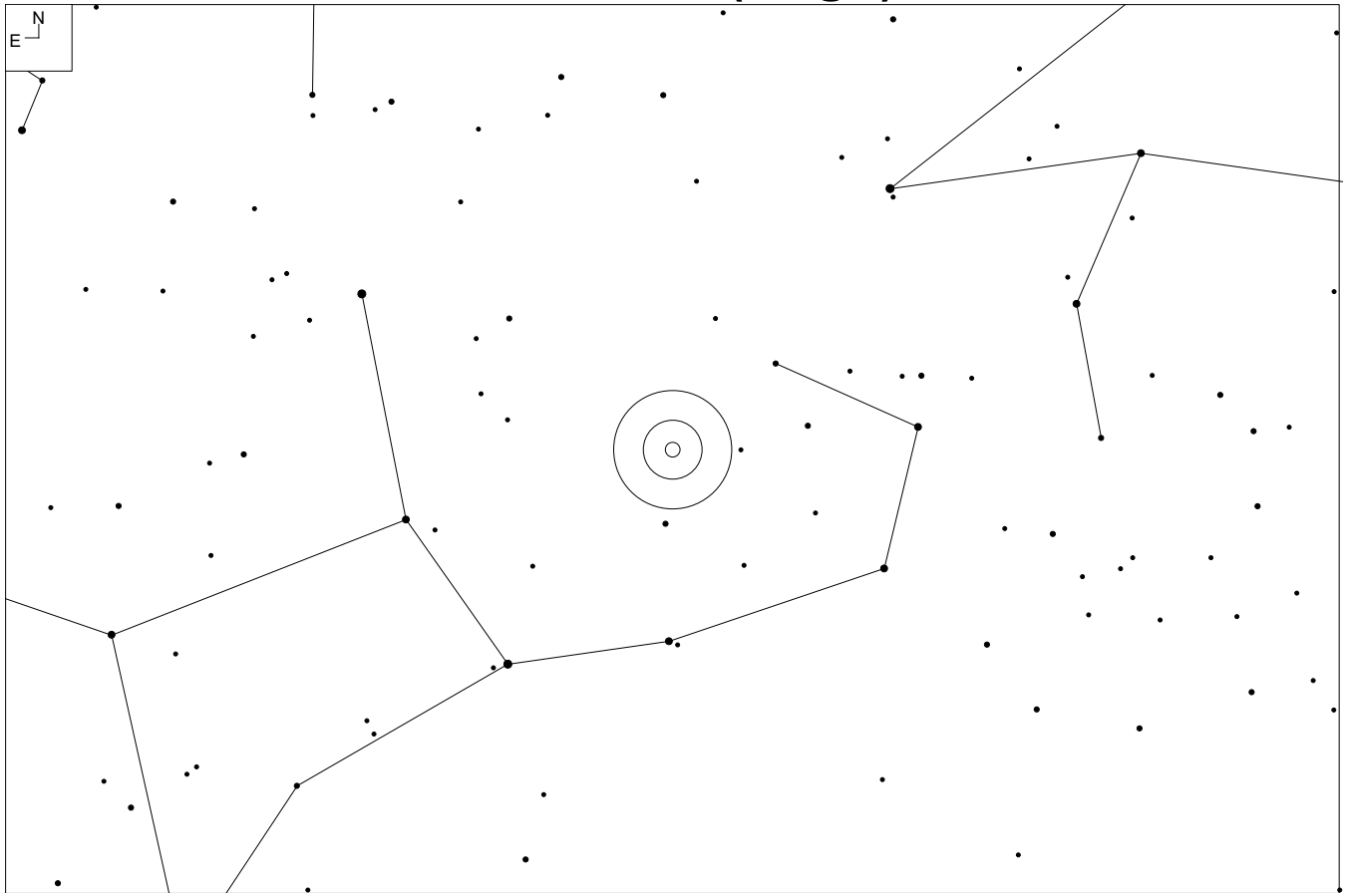


# NGC 4073 (Virgo)

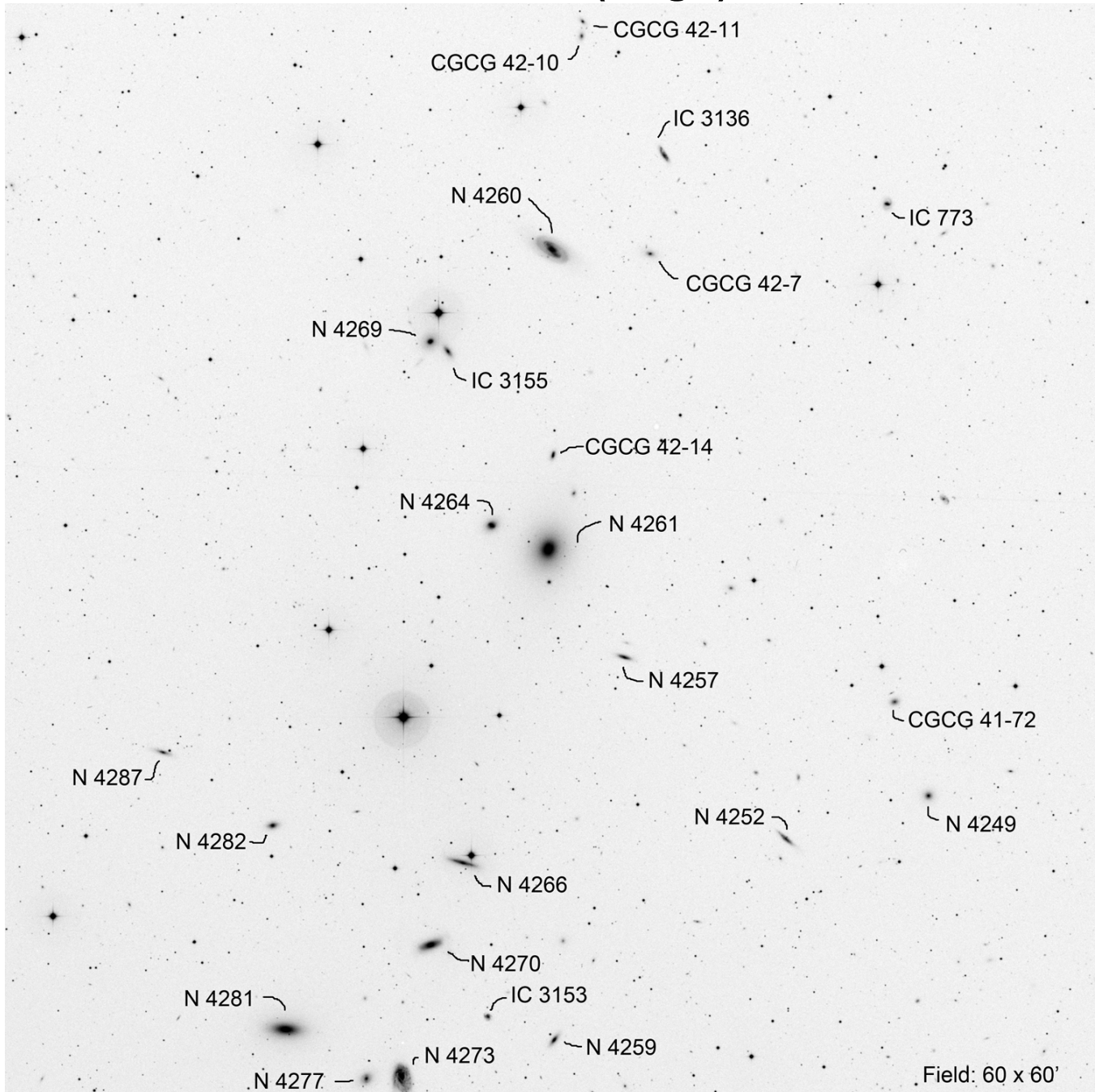


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 4	12 04 27.1	+01 53 45	11.1	14

# NGC 4261 (Virgo)

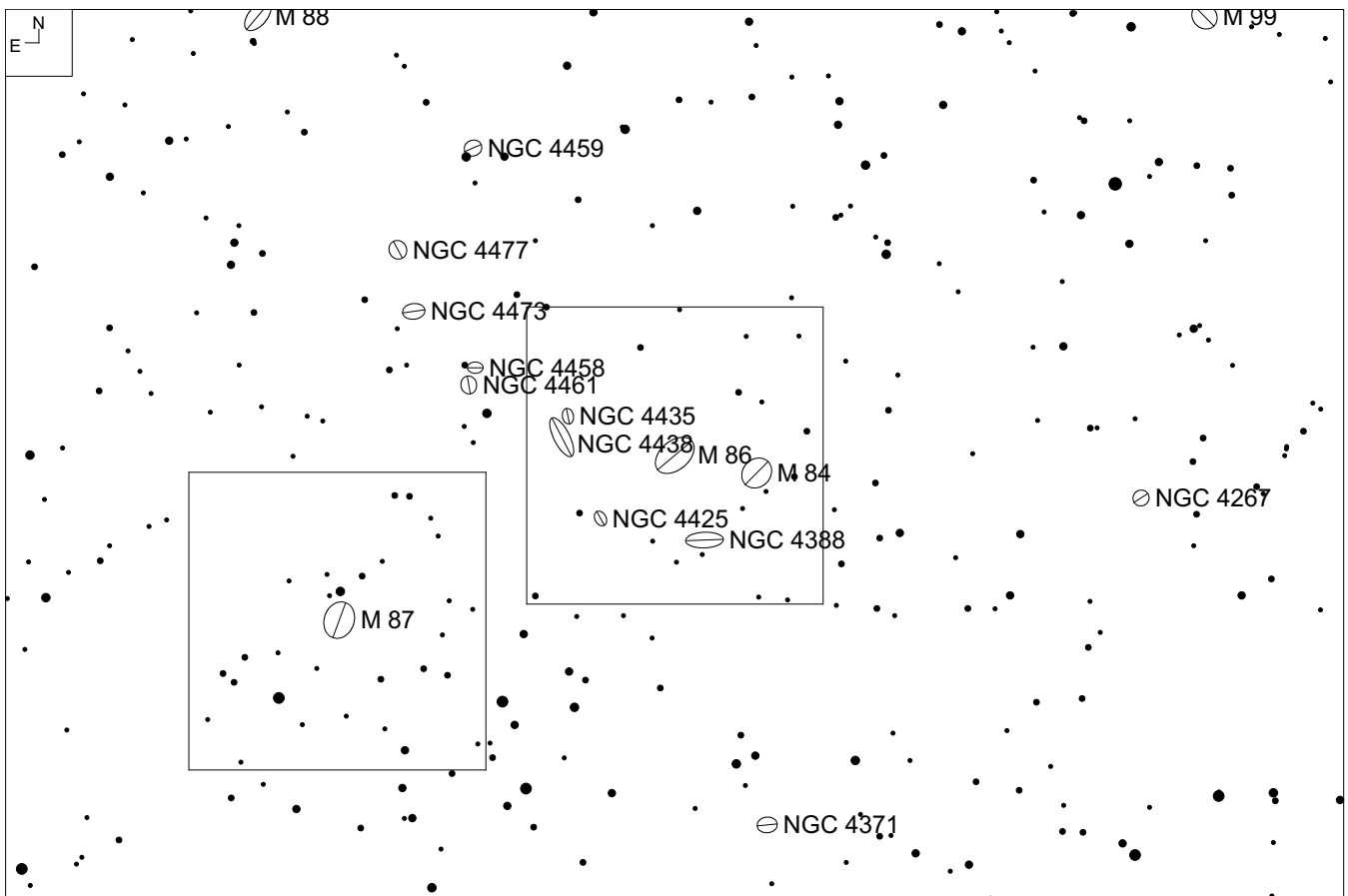
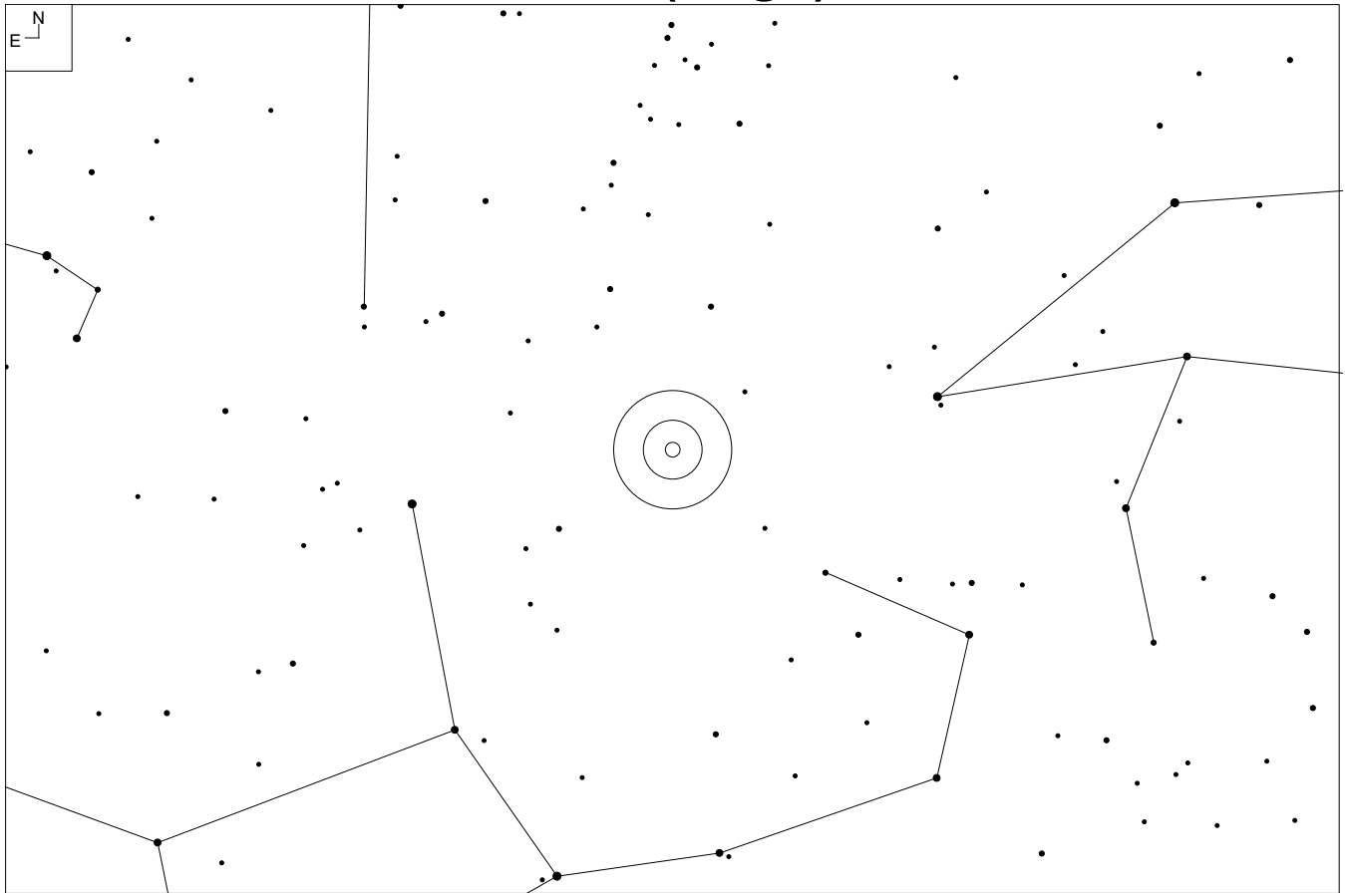


# NGC 4261 (Virgo)

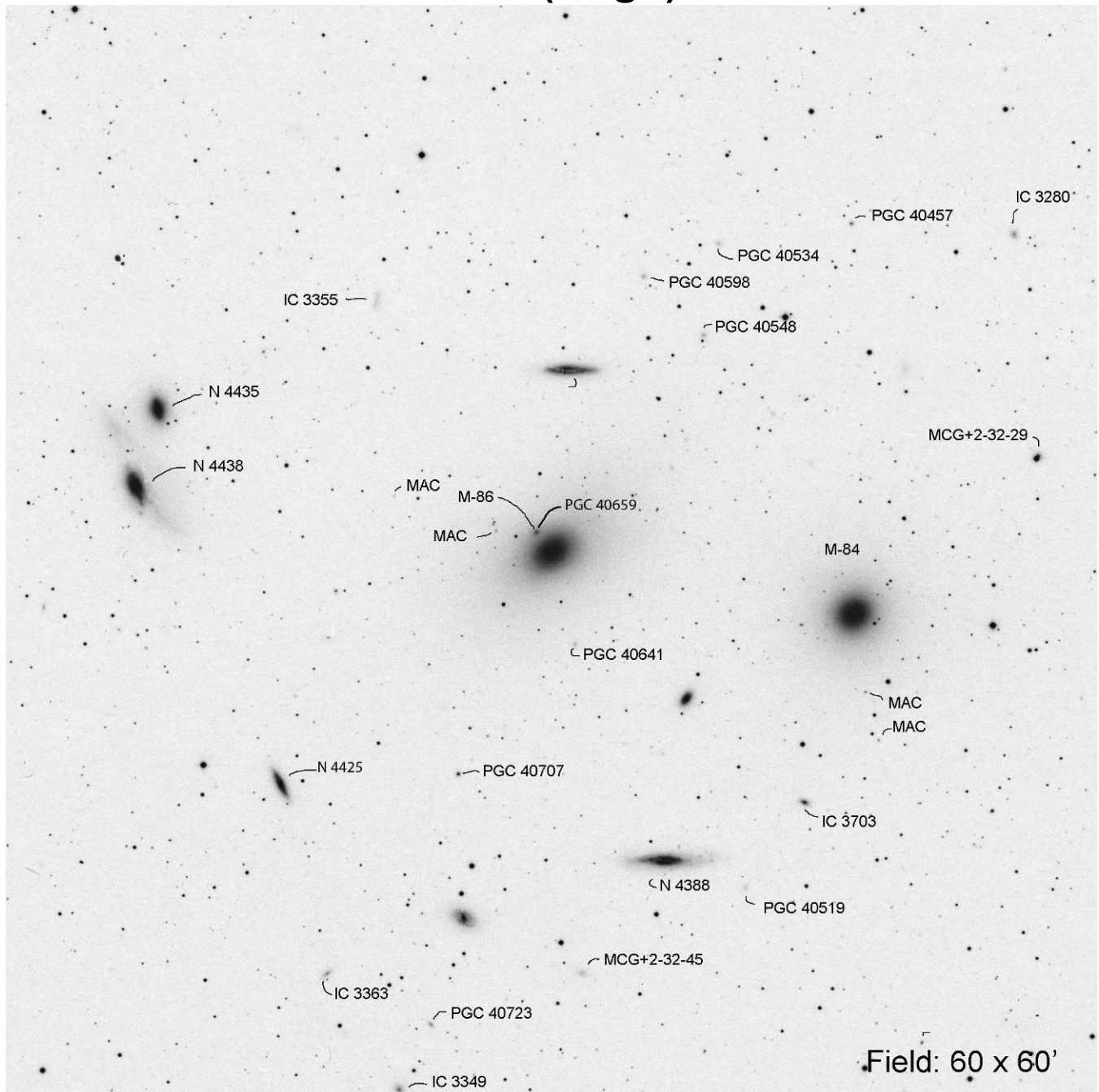


RA	Dec	Mag <sub>1</sub>	# of galaxies
12 19 23.2	+05 49 29	10.4	32

# M 86 (Virgo)



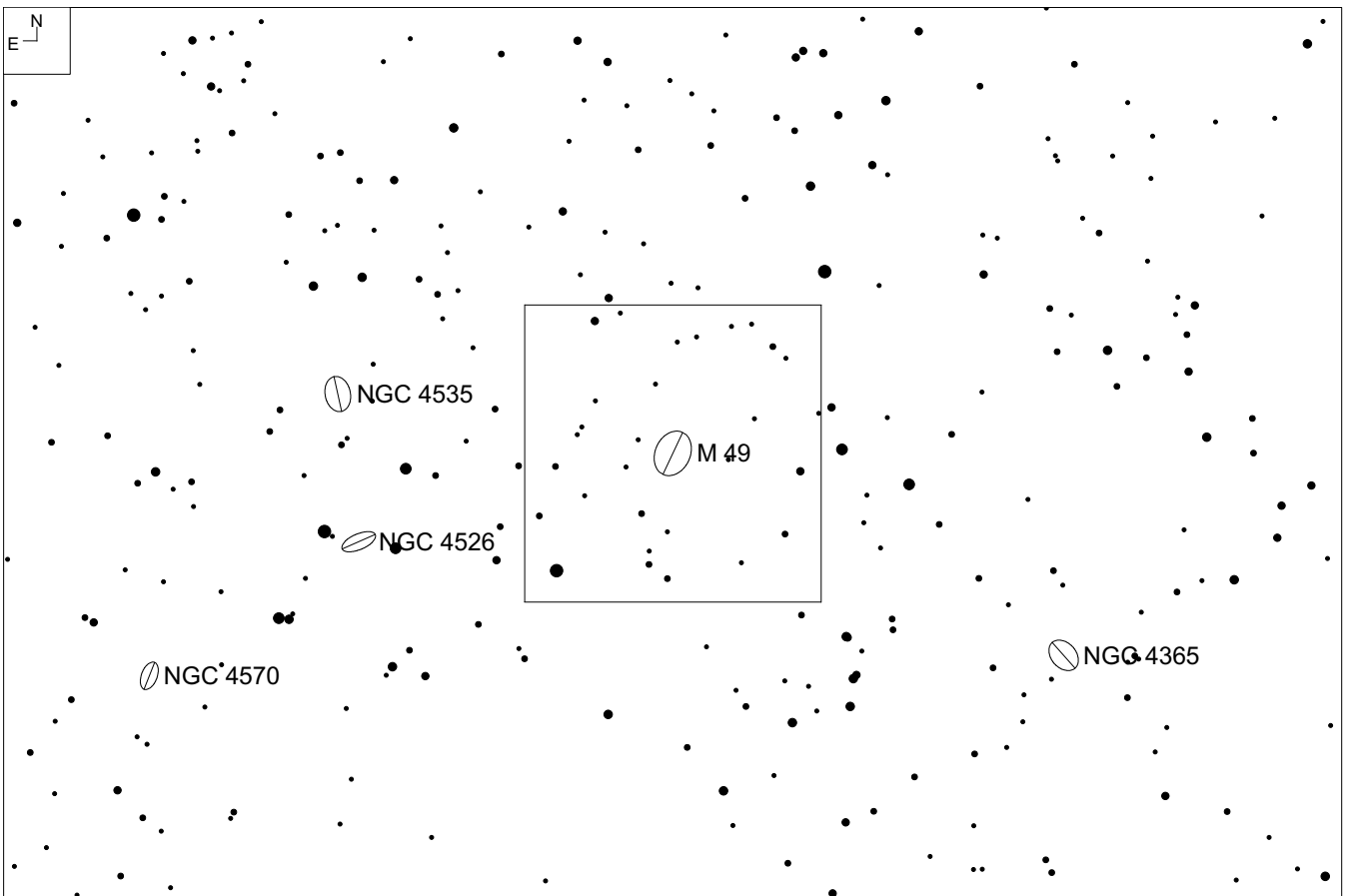
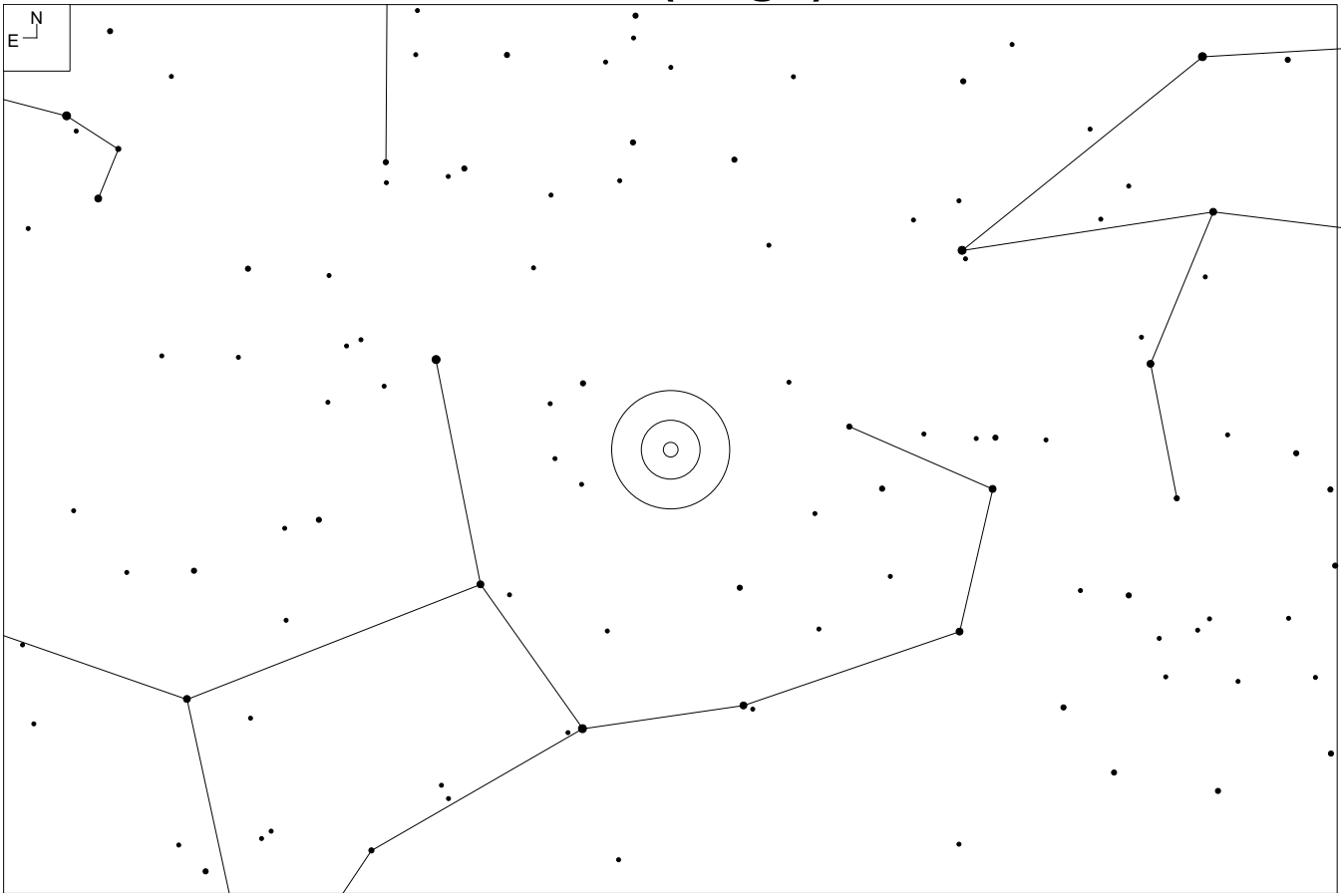
# M 86 (Virgo)



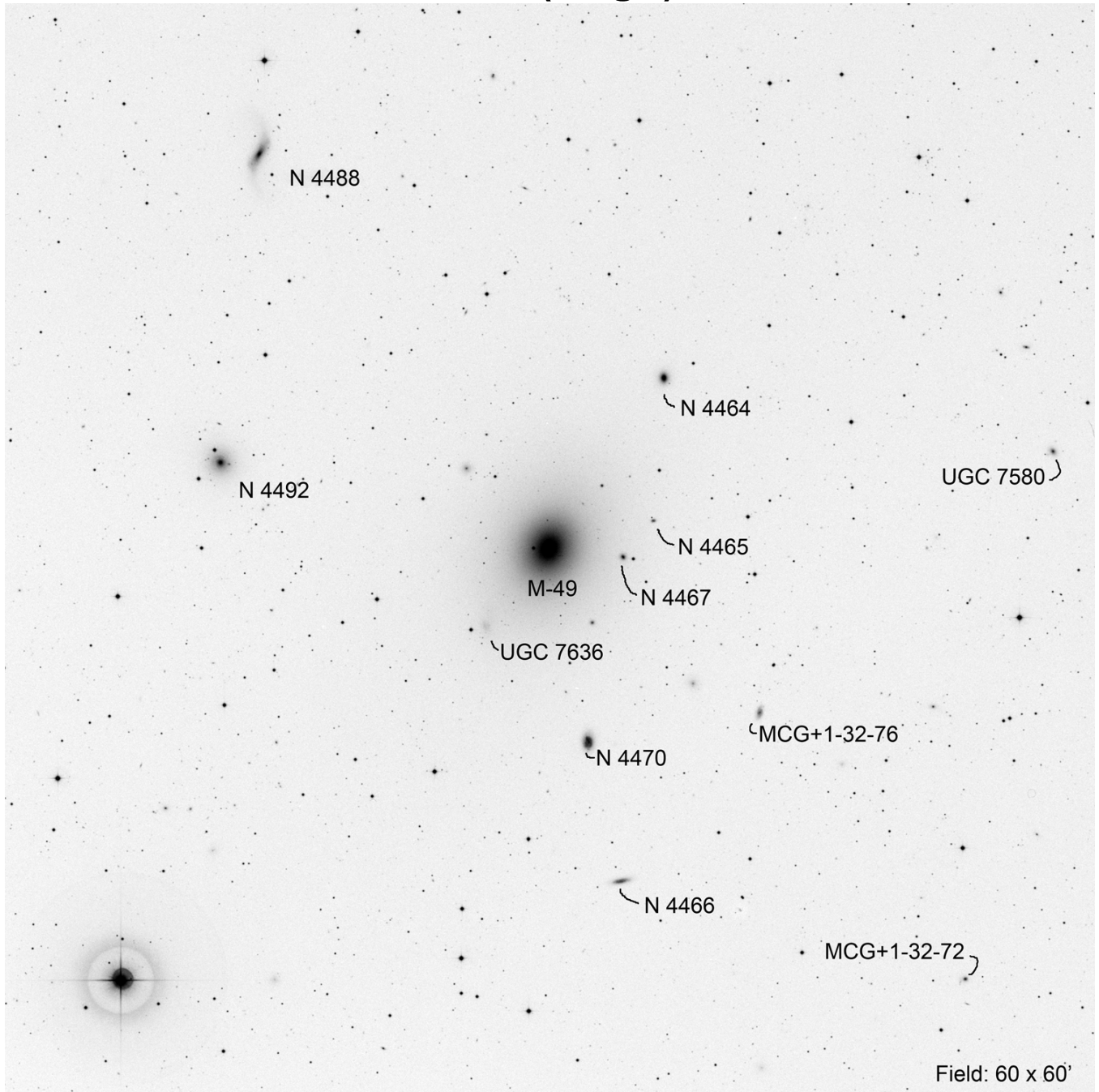
**Center of Virgo Supercluster**

RA	Dec	Mag <sub>1</sub>	# of galaxies
12 26 11.8	+12 56 49	8.9	many

# M 49 (Virgo)

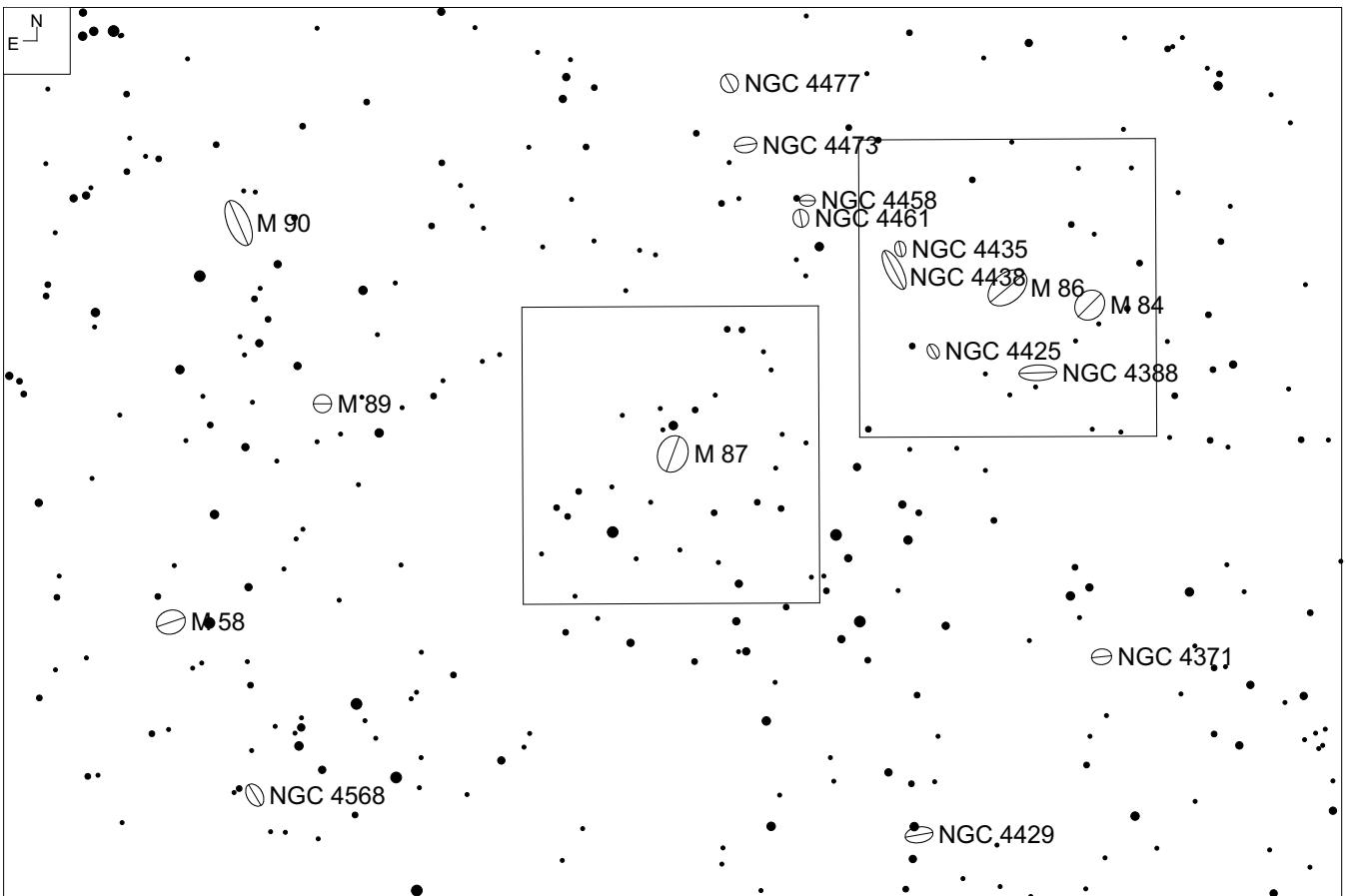
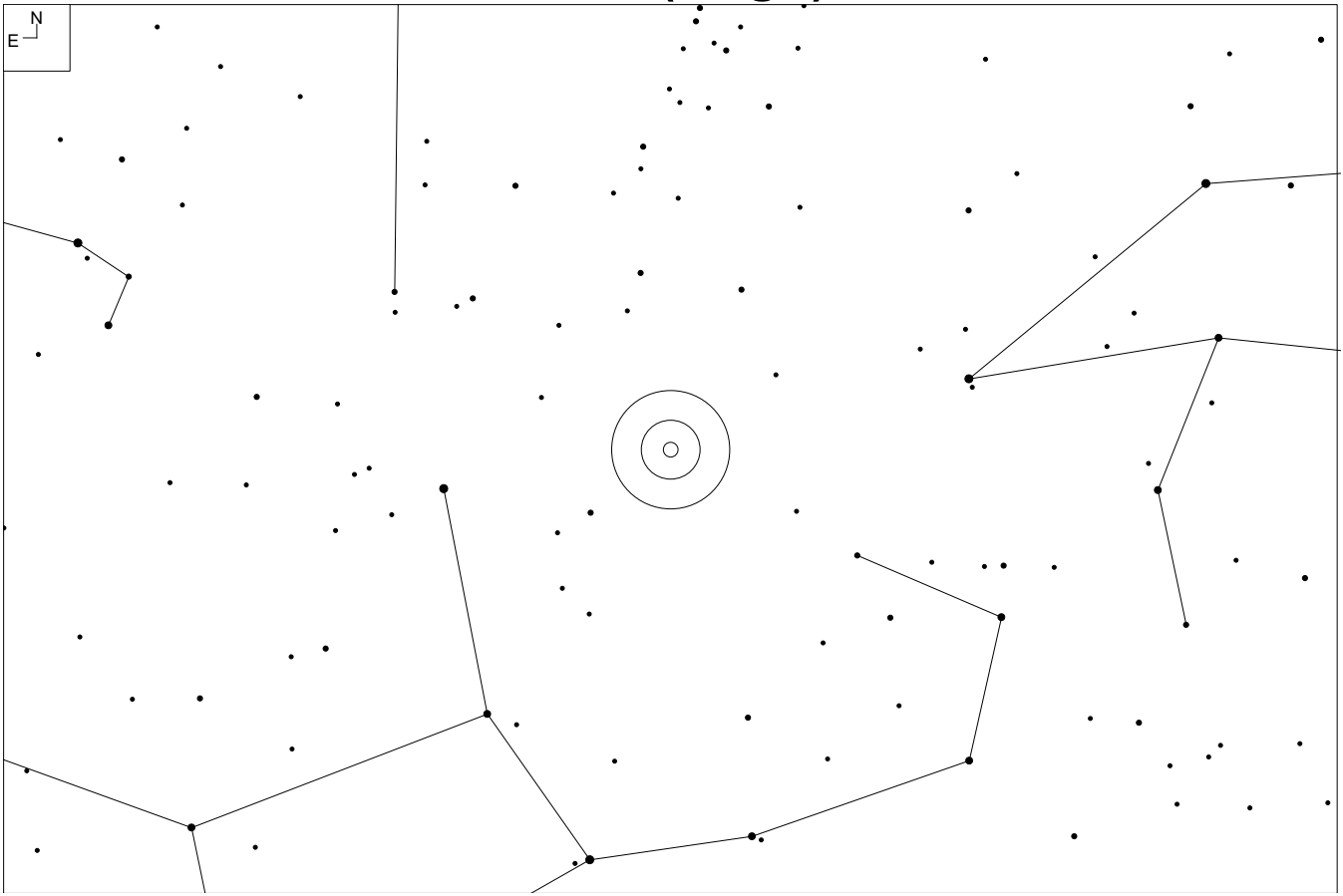


# M 49 (Virgo)



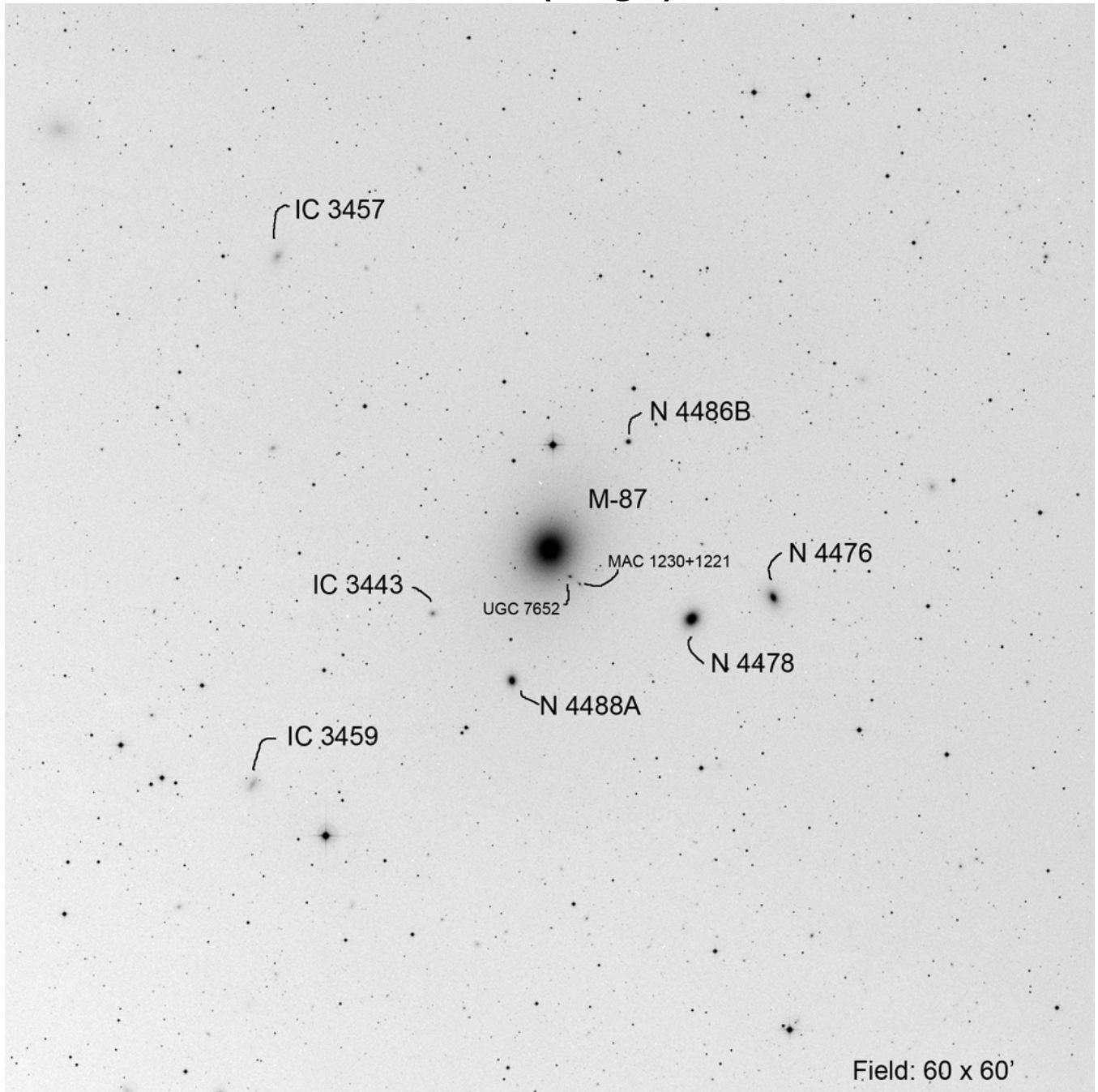
RA	Dec	Mag <sub>1</sub>	# of galaxies
12 29 46.5	+07 59 58	8.4	12

# M 87 (Virgo)



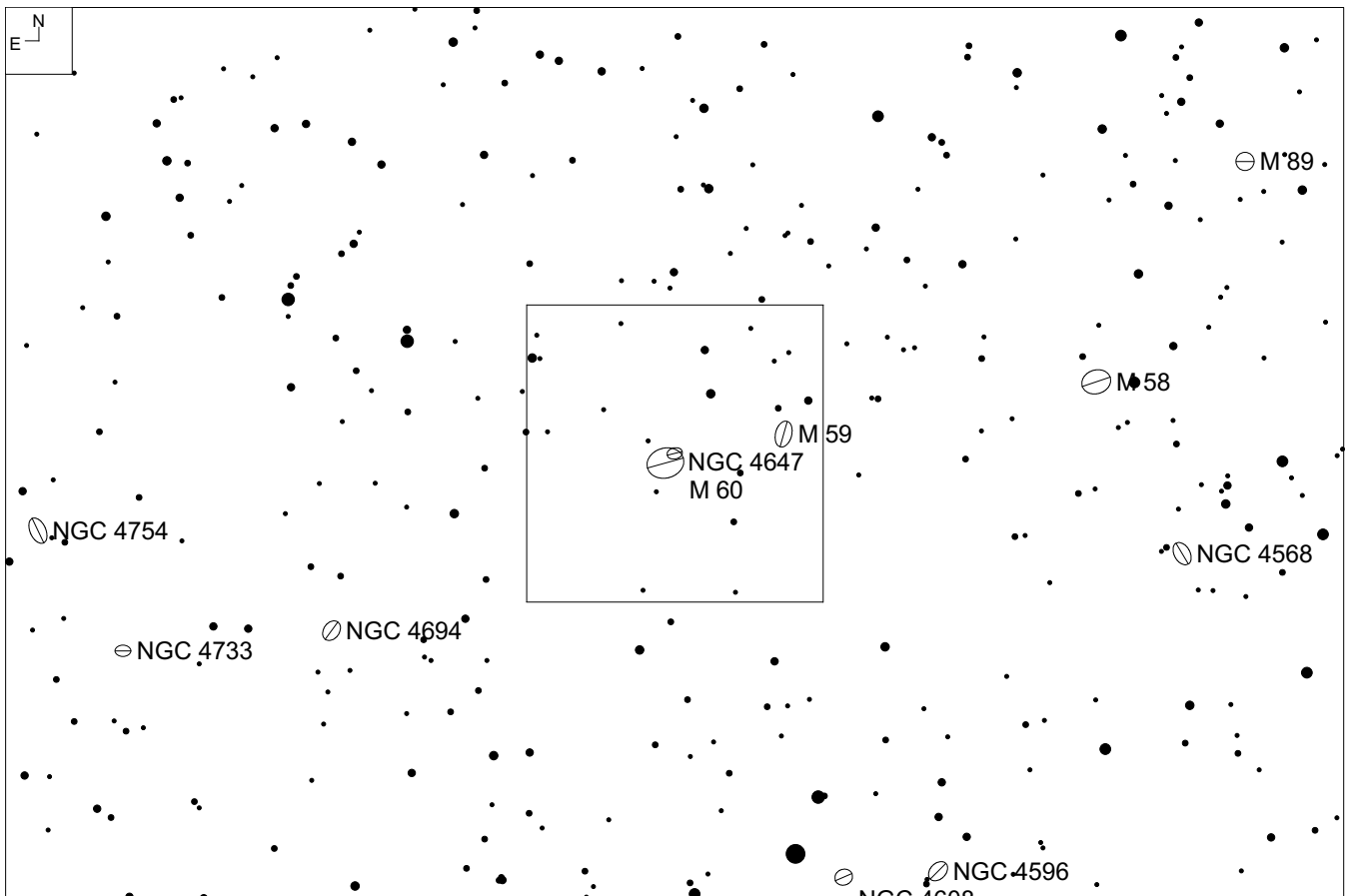
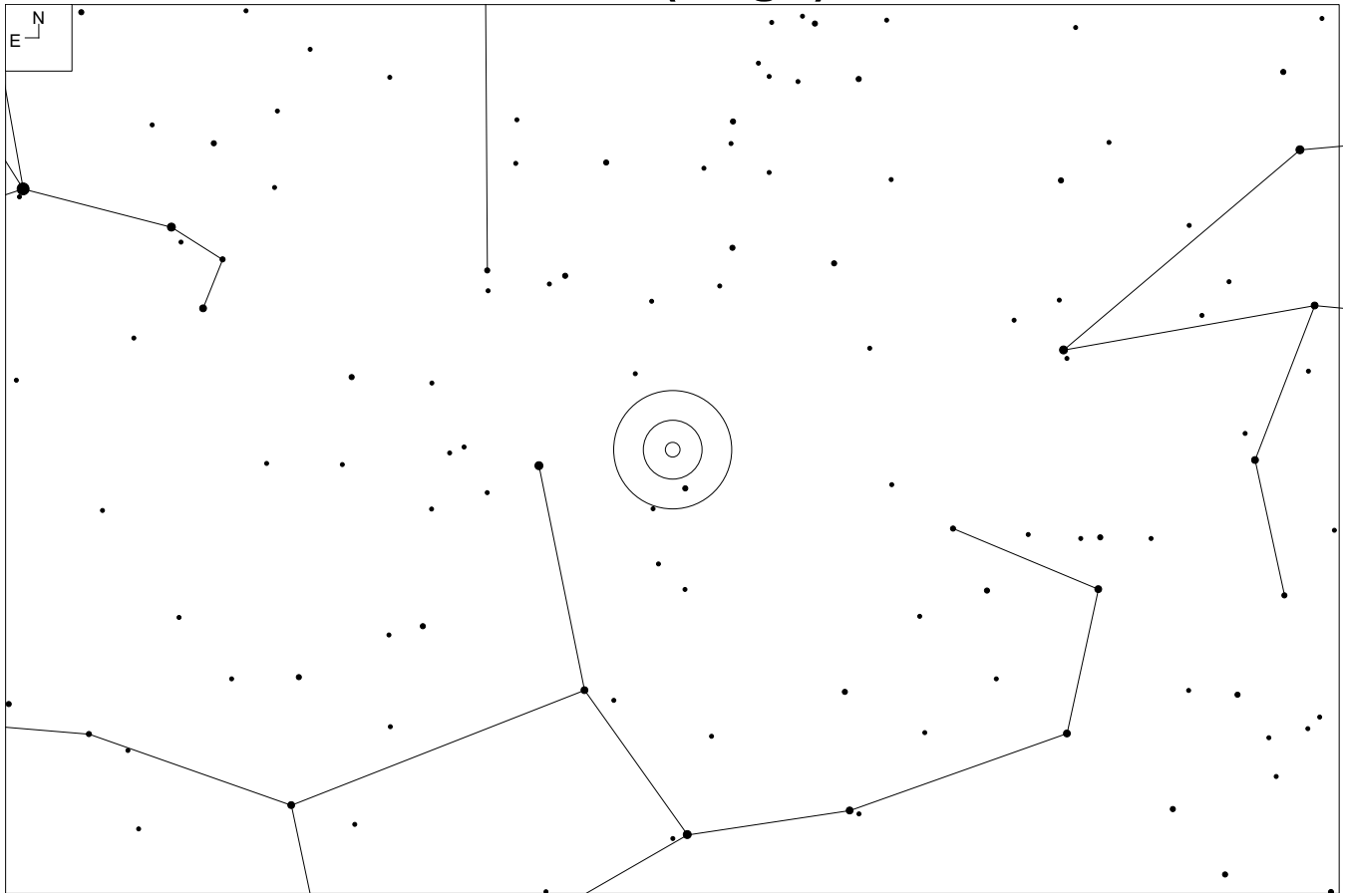


# M 87 (Virgo)

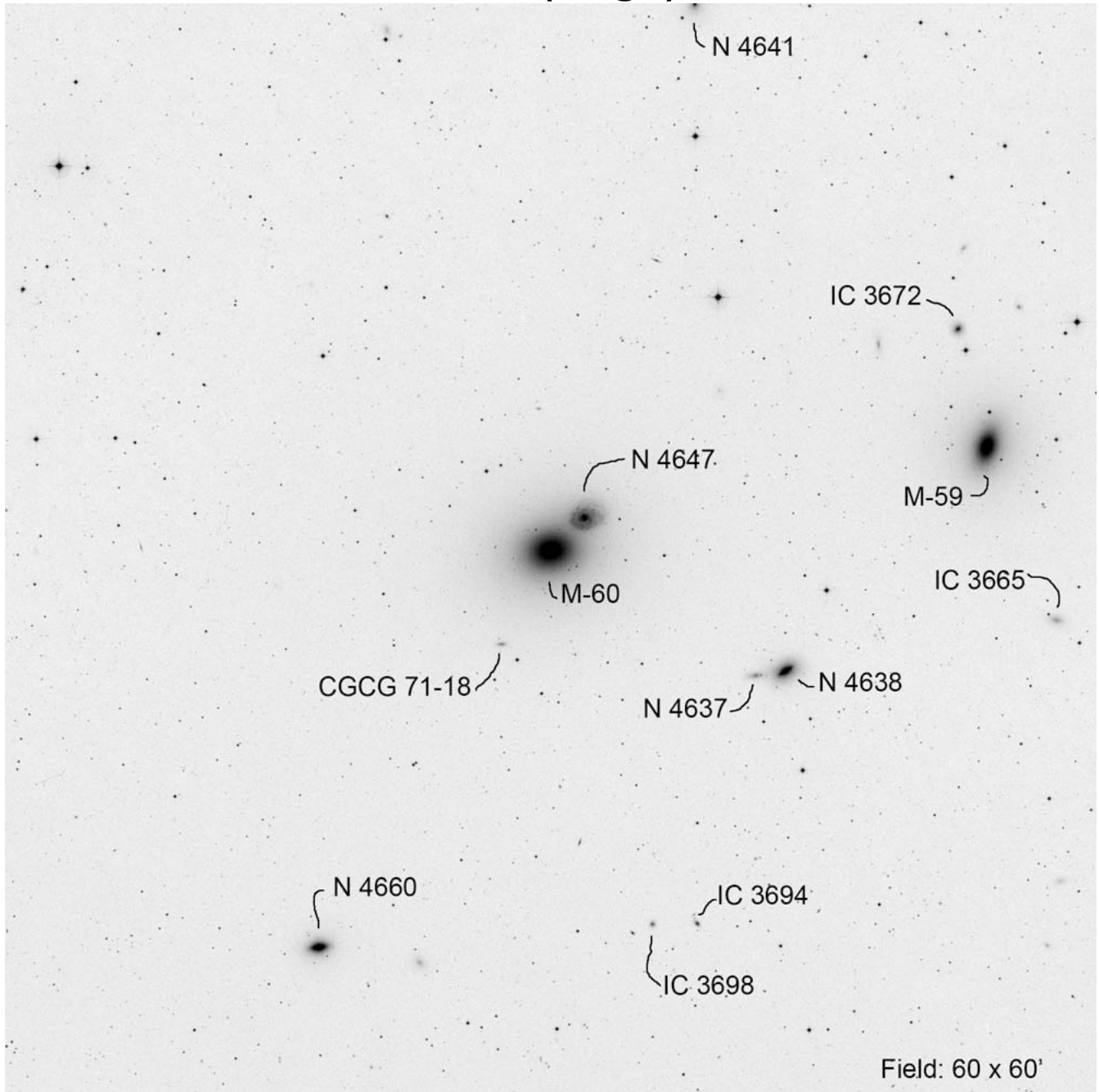


RA	Dec	Mag <sub>1</sub>	# of galaxies
12 30 49.7	+12 23 24	8.6	9

# M 60 (Virgo)

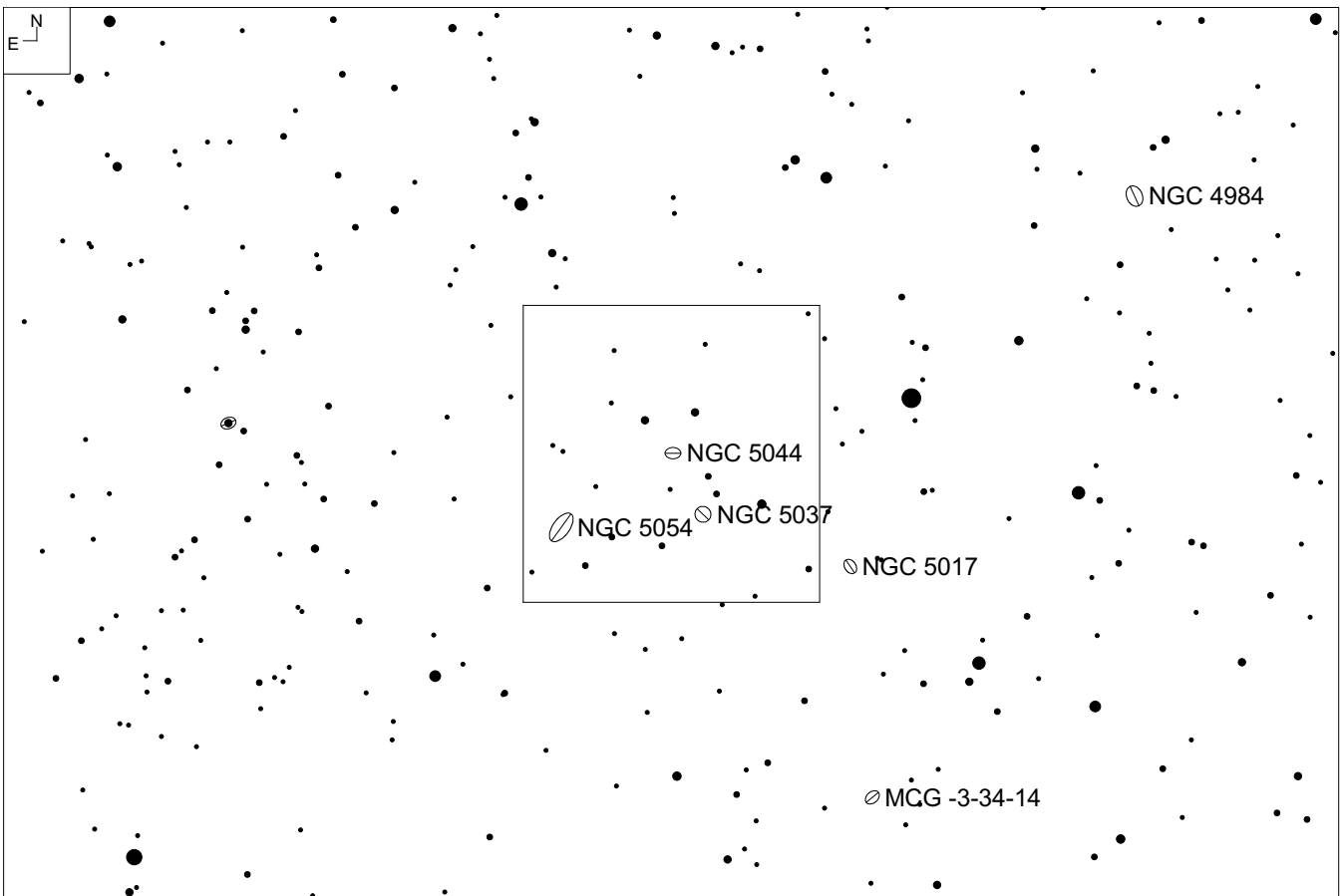
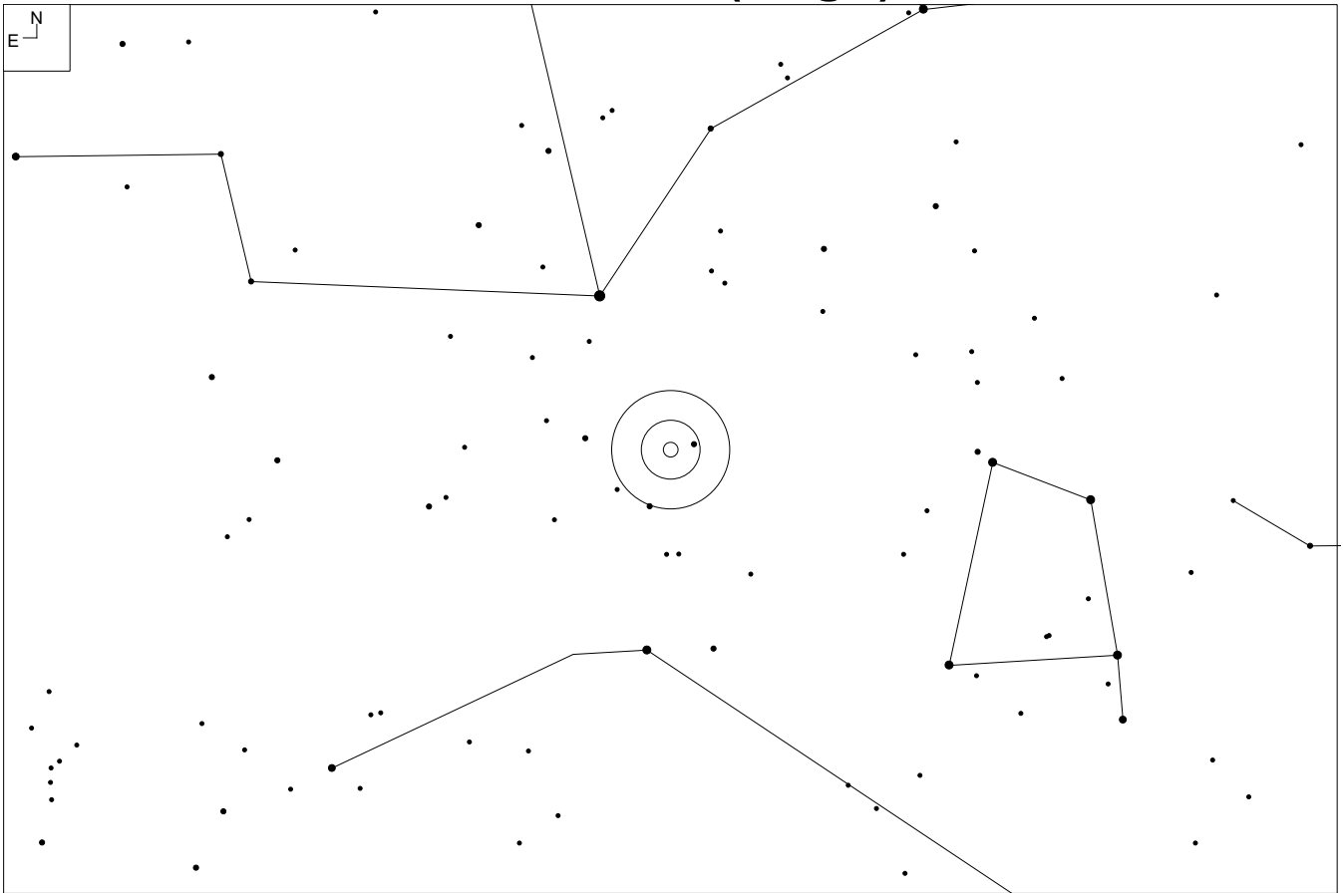


# M 60 (Virgo)

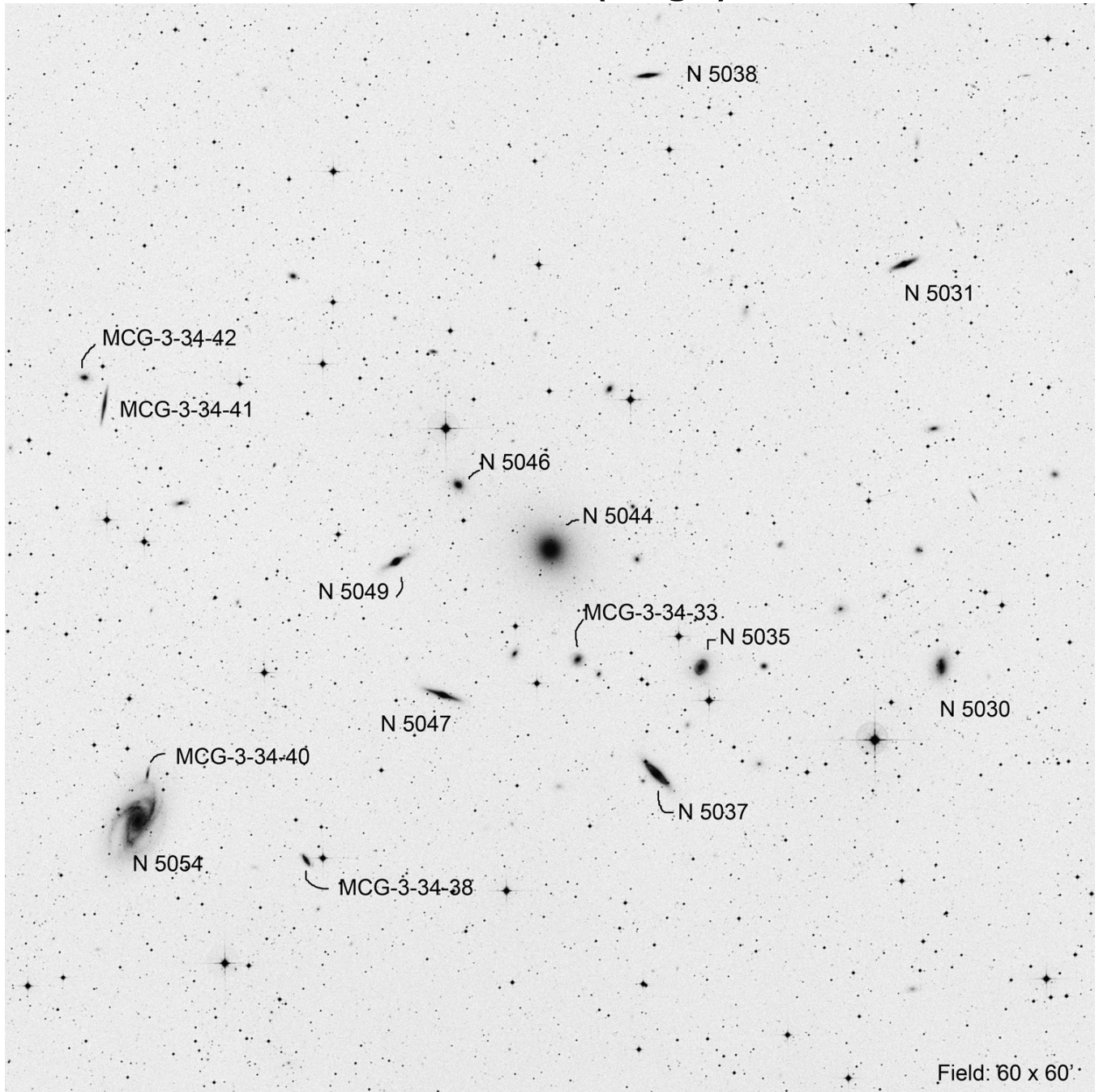


RA	Dec	Mag <sub>1</sub>	# of galaxies
12 43 40.3	+11 32 58	8.8	10

# NGC 5044 (Virgo)

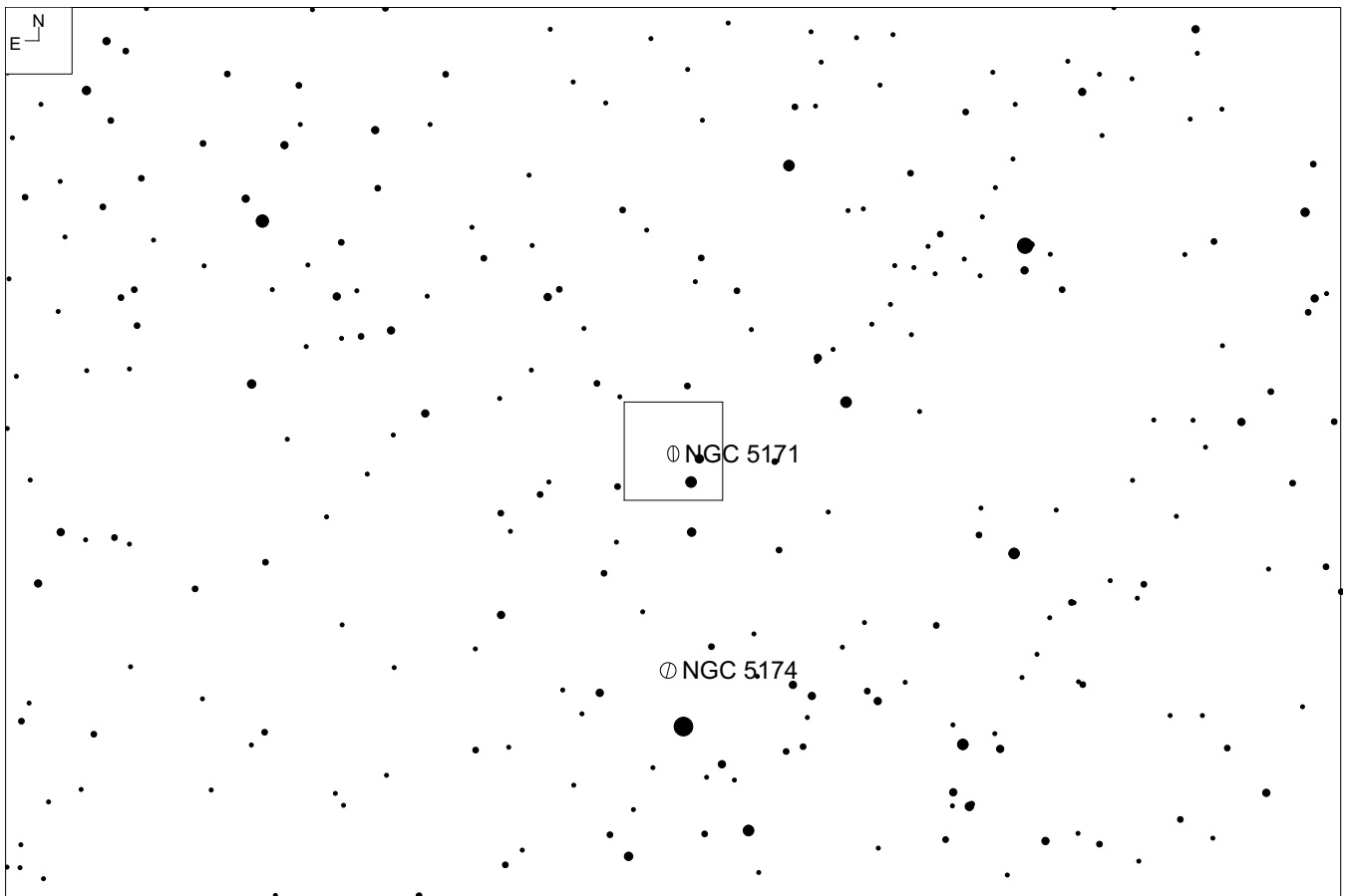
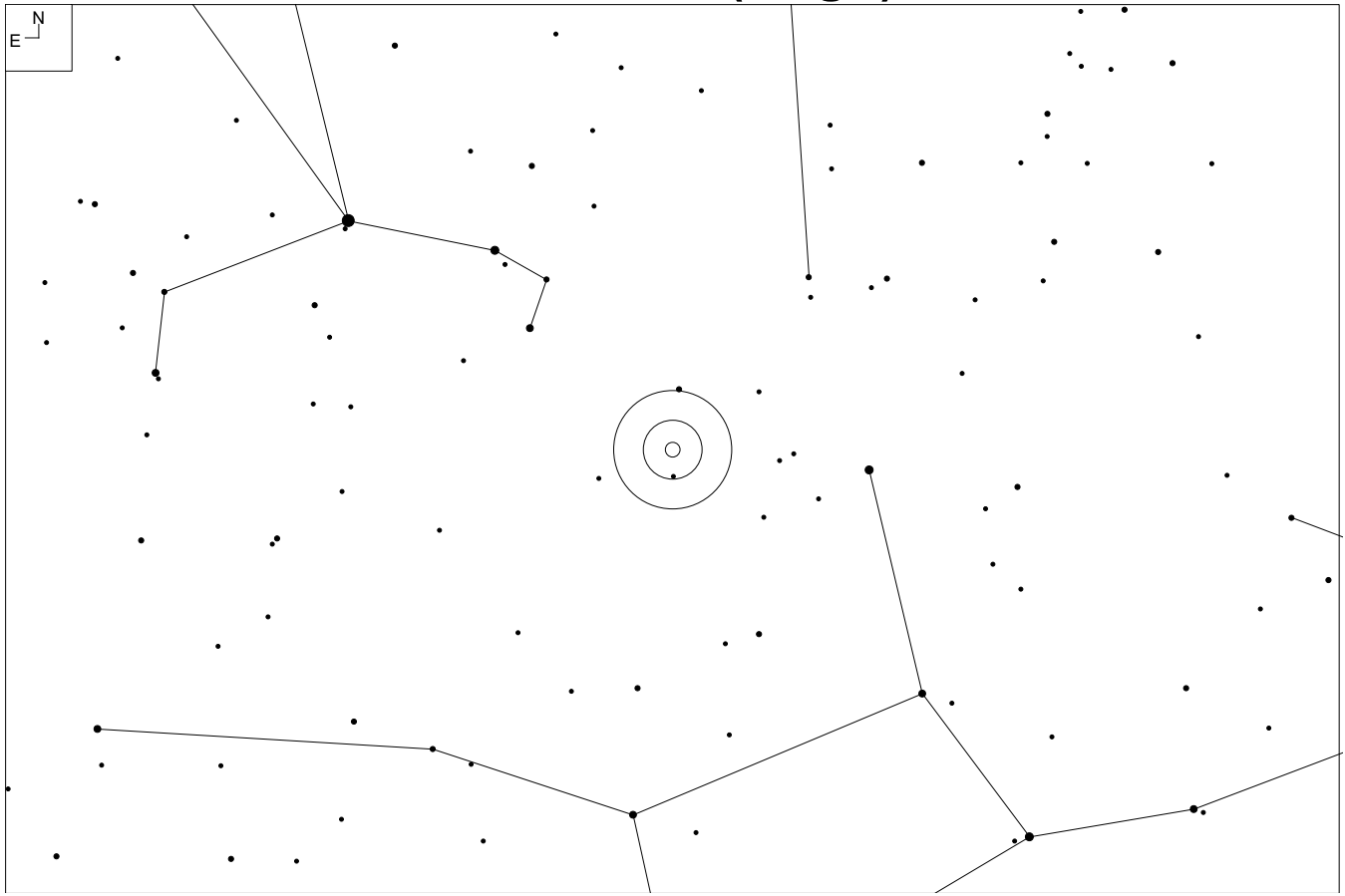


# NGC 5044 (Virgo)

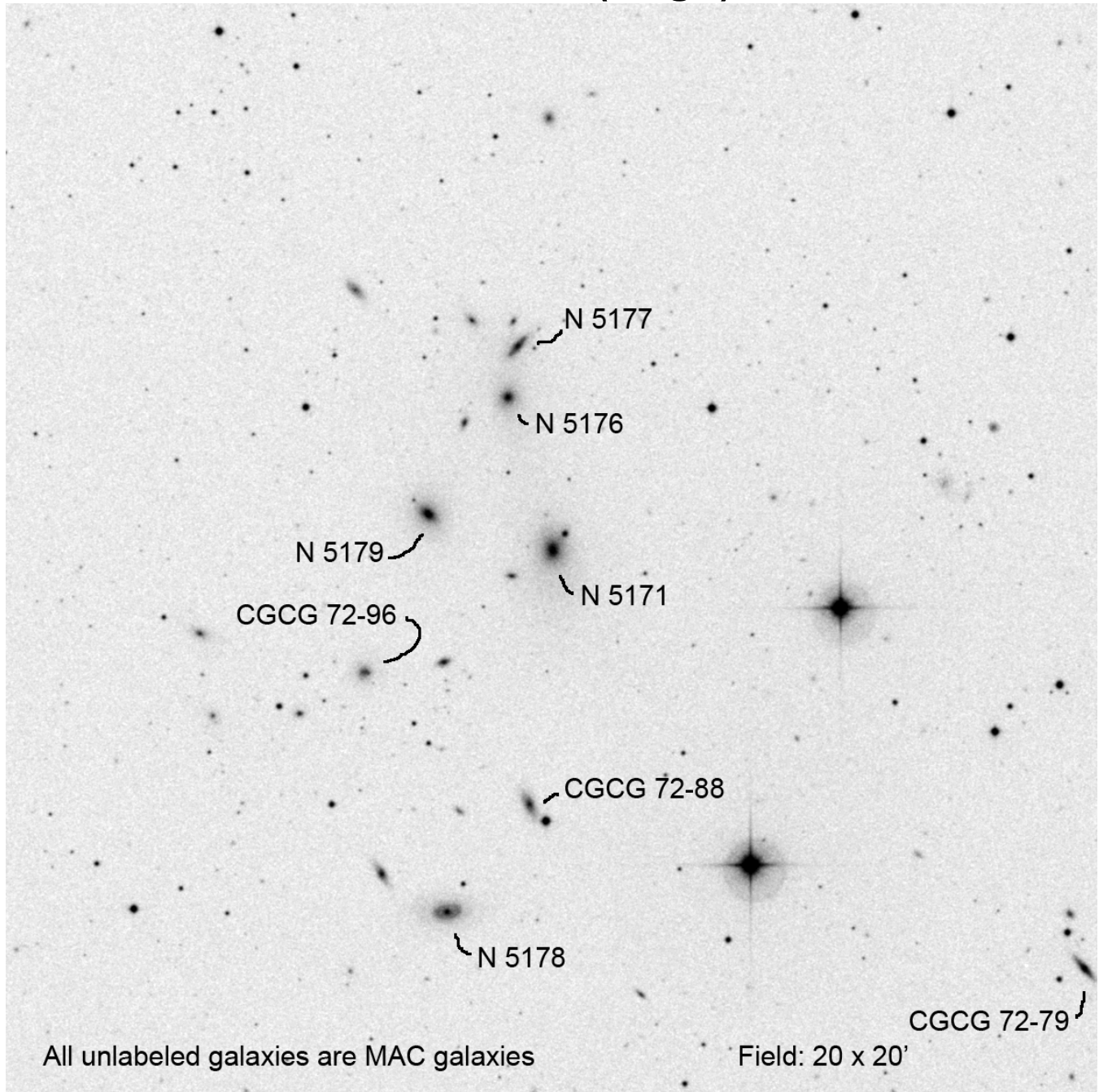


RA	Dec	Mag <sub>1</sub>	# of galaxies
13 15 24.0	-16 23 09	10.8	8

# NGC 5171 (Virgo)

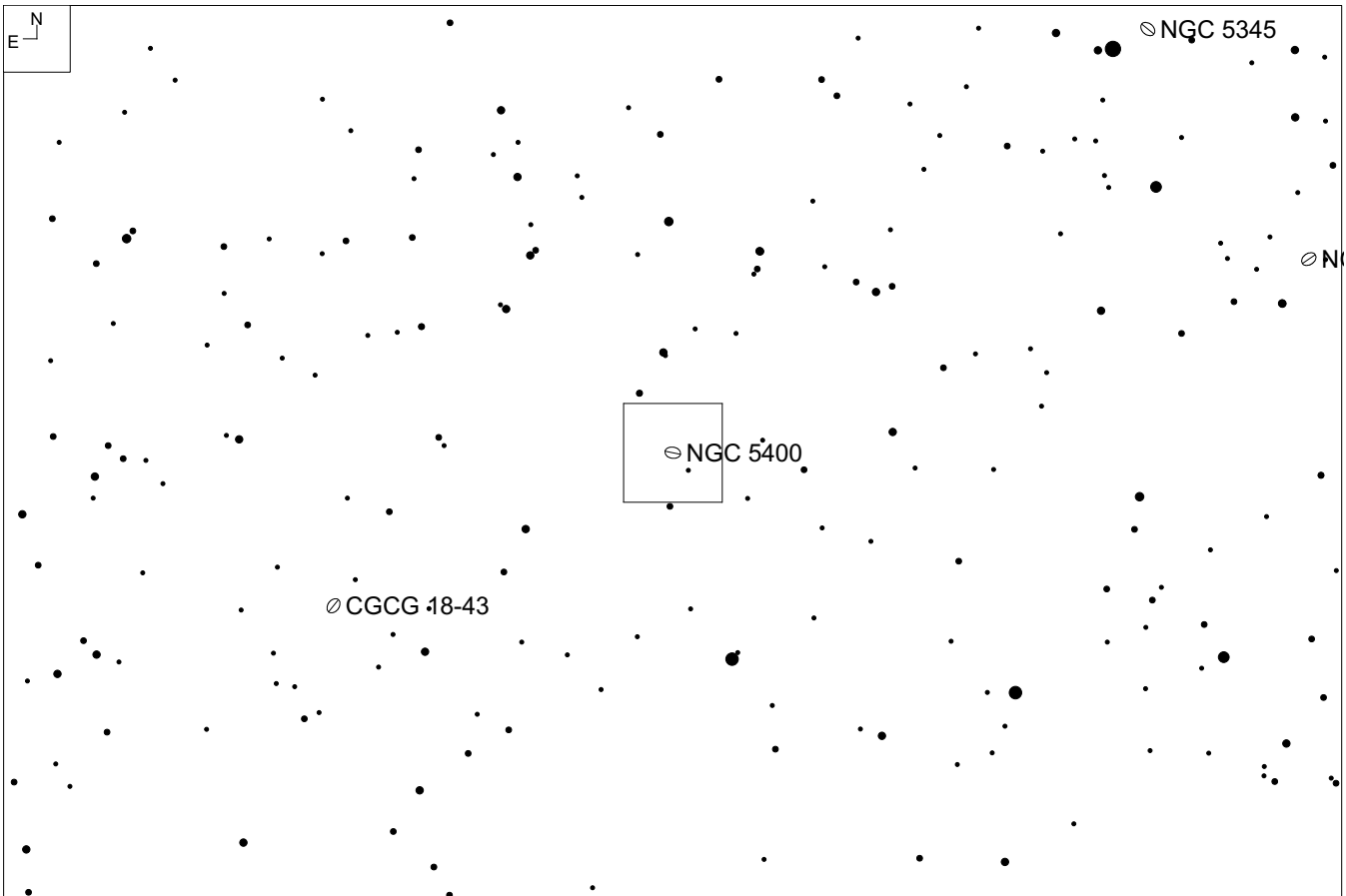
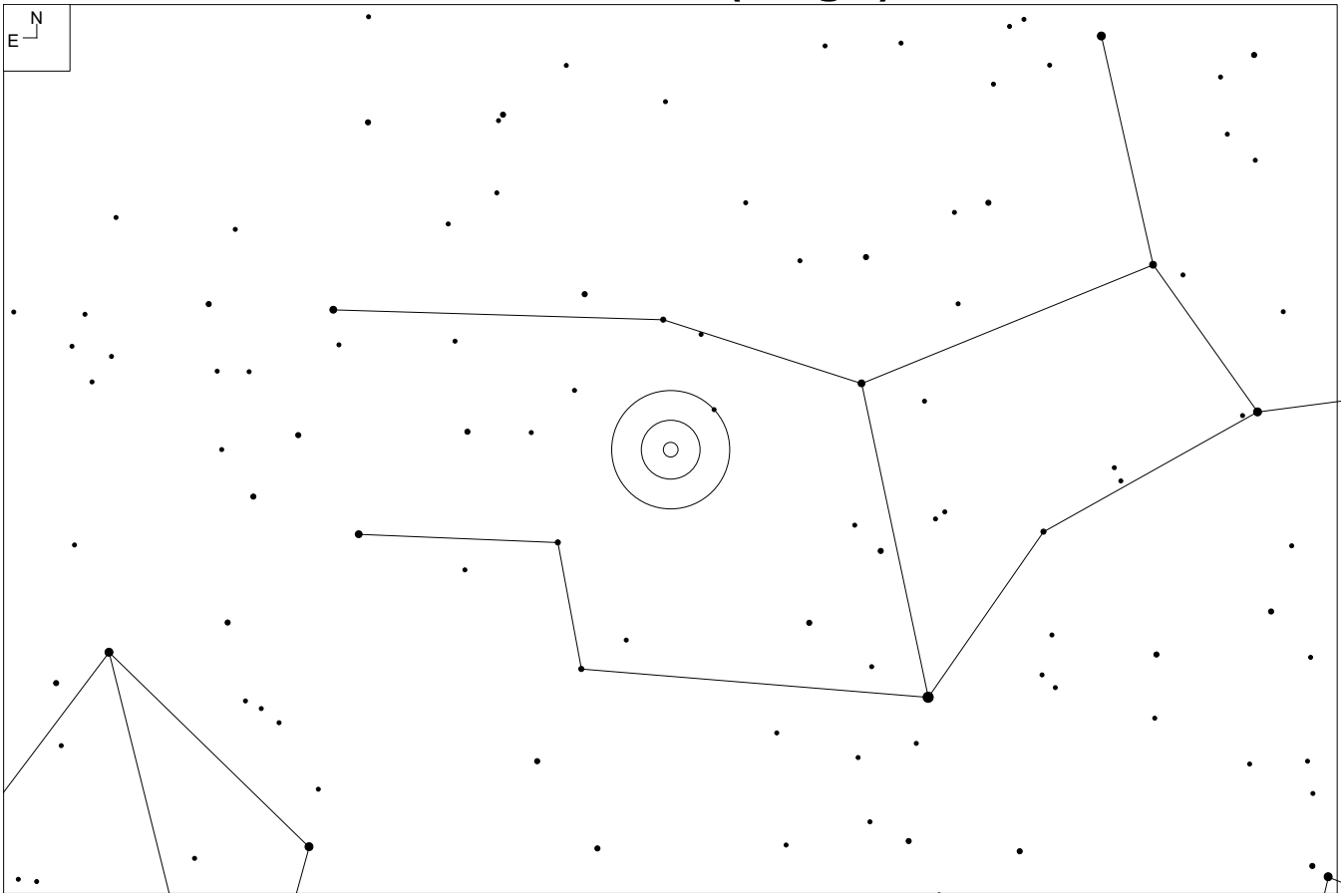


# NGC 5171 (Virgo)



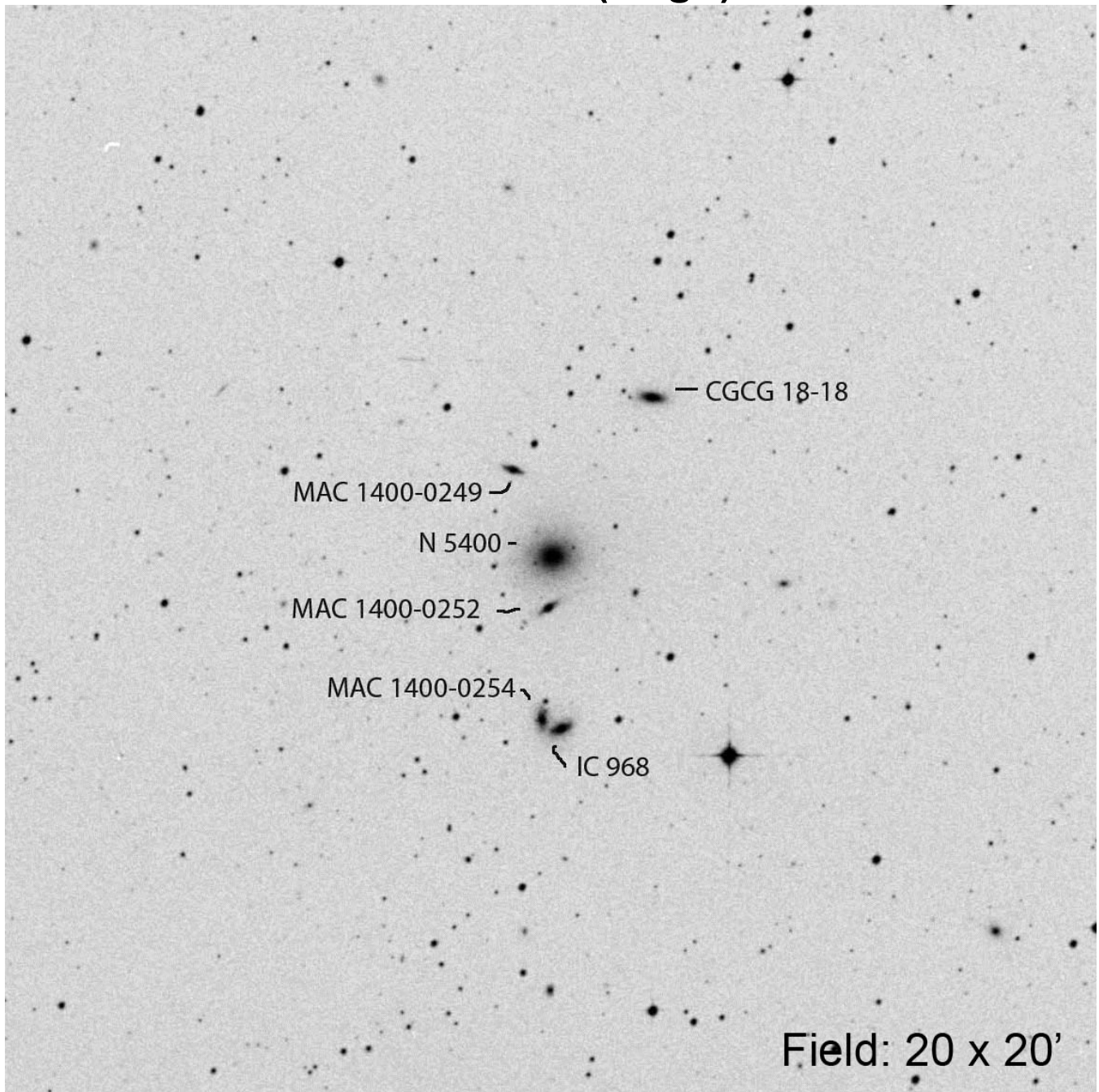
Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 11	13 29 21.6	+11 44 06	12.8	7

# NGC 5400 (Virgo)



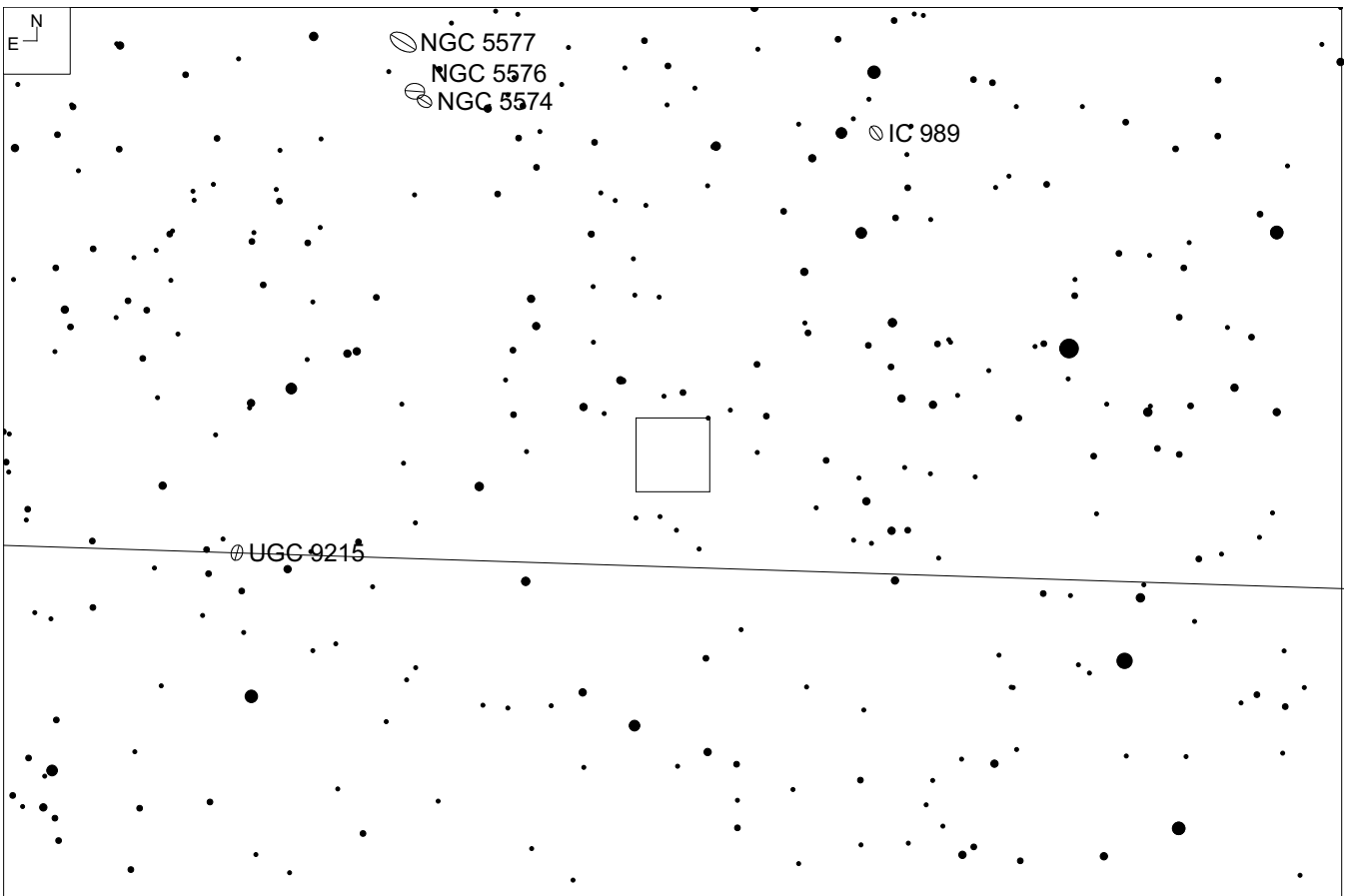
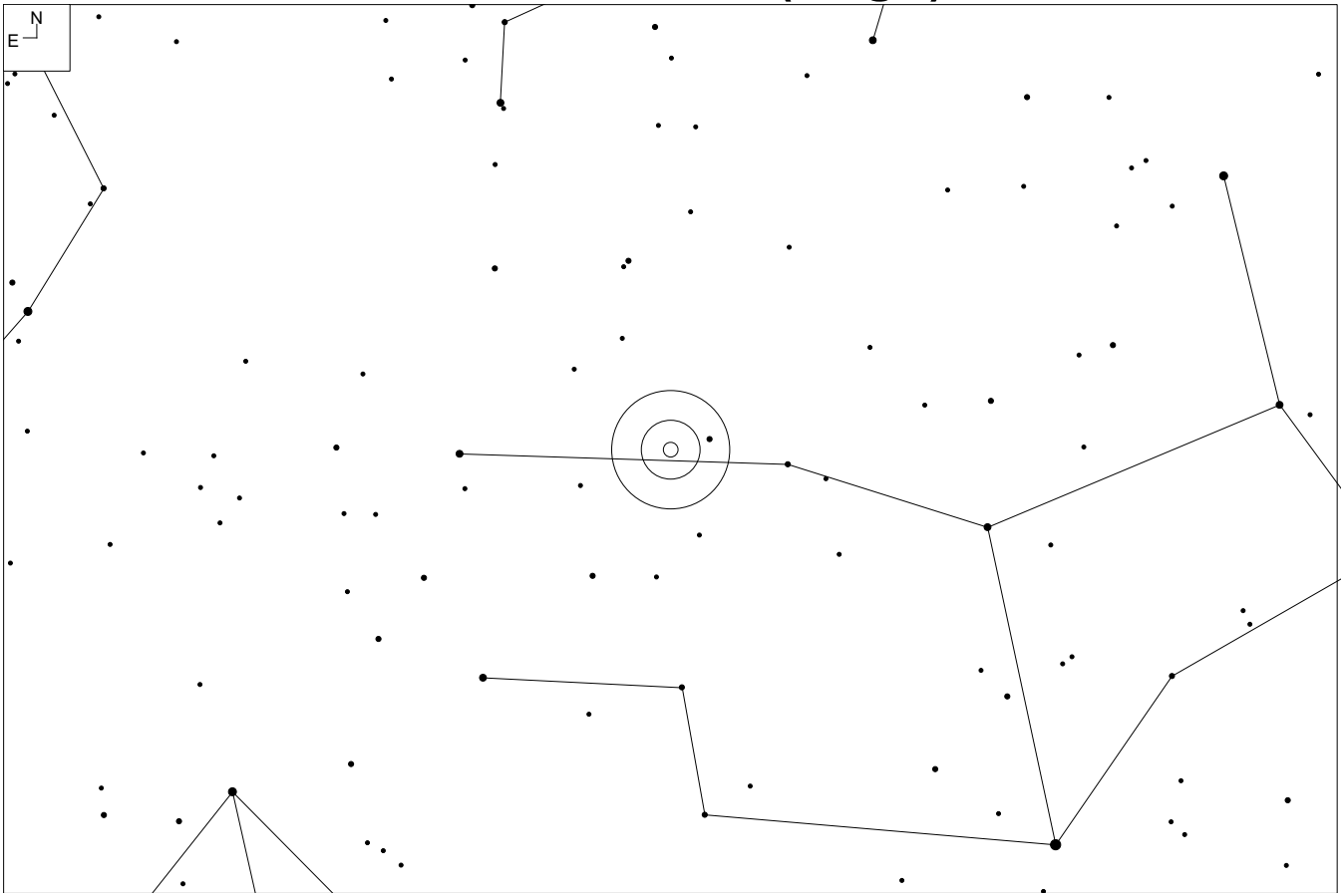


# NGC 5400 (Virgo)

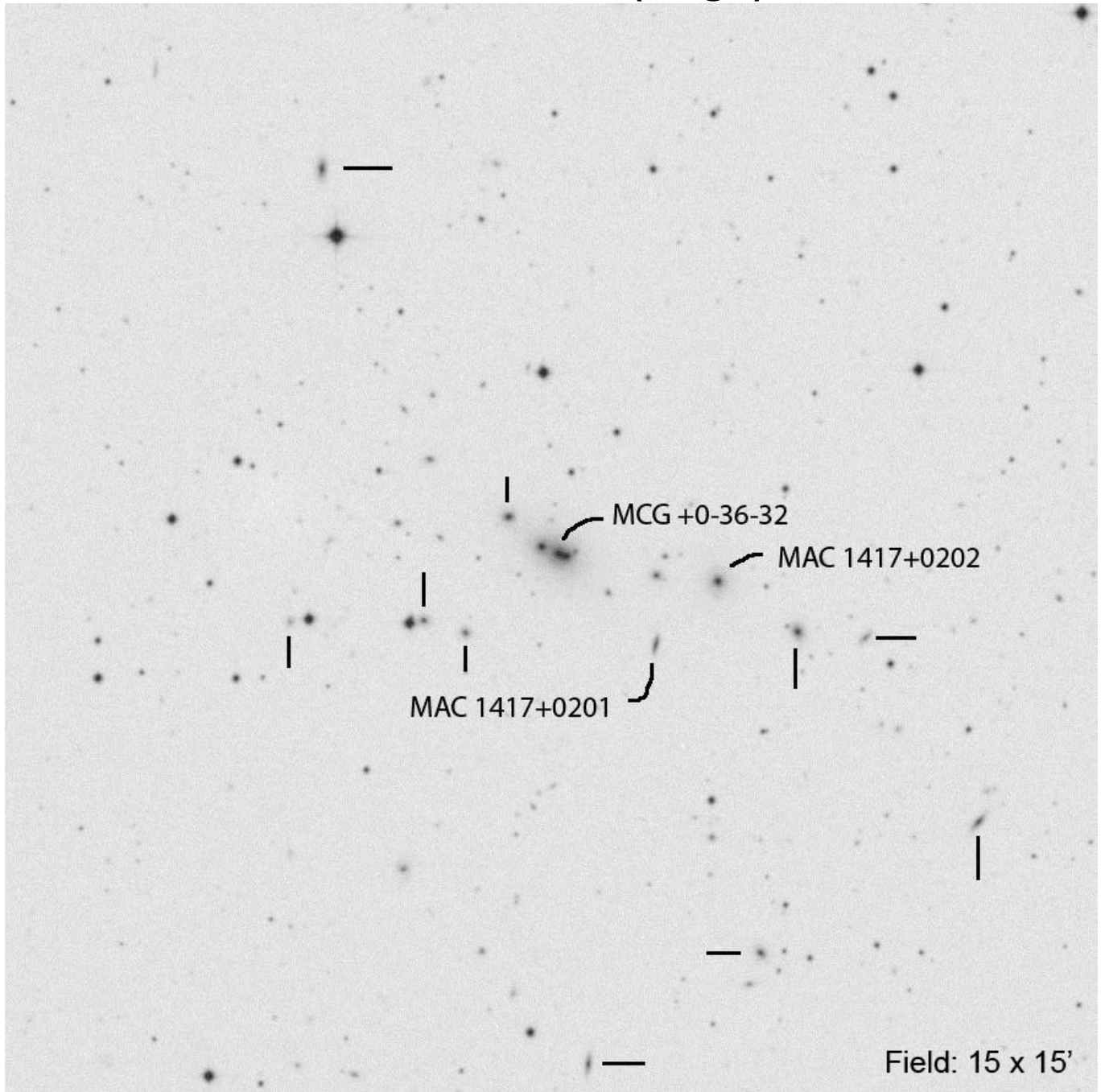


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 5	14 00 37.2	-02 51 27	13.9	6

# MCG +0-36-32 (Virgo)

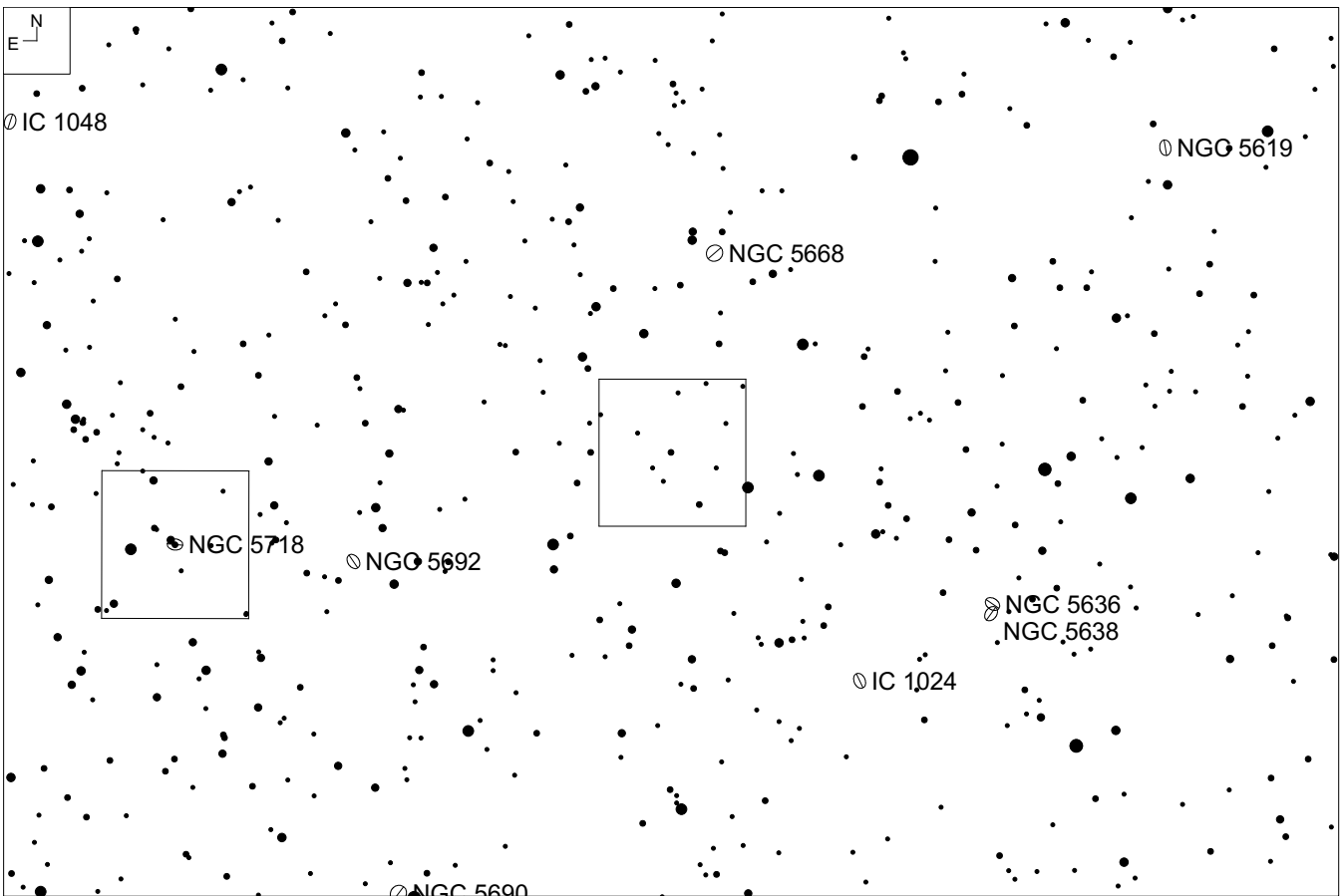
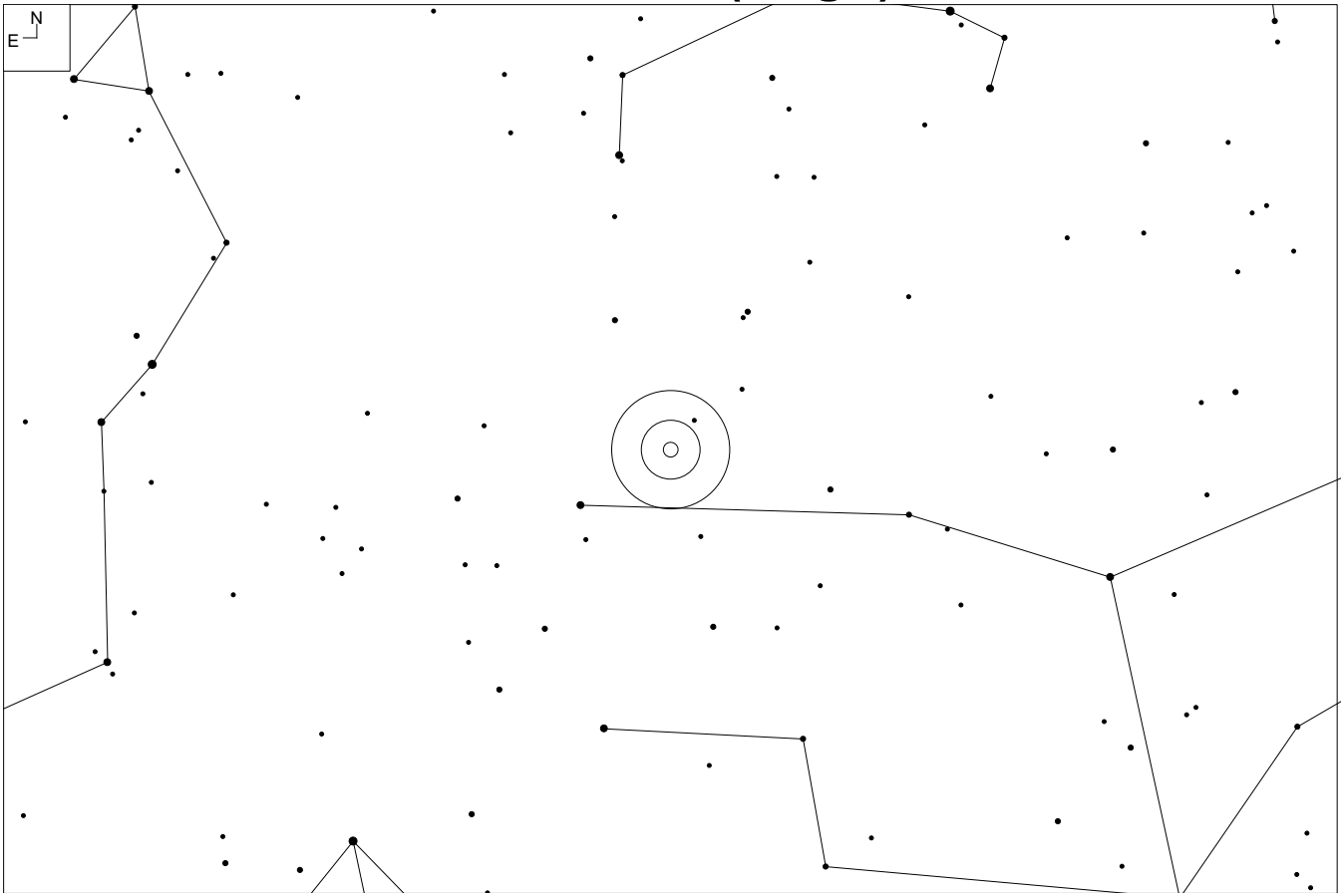


# MCG +0-36-32 (Virgo)

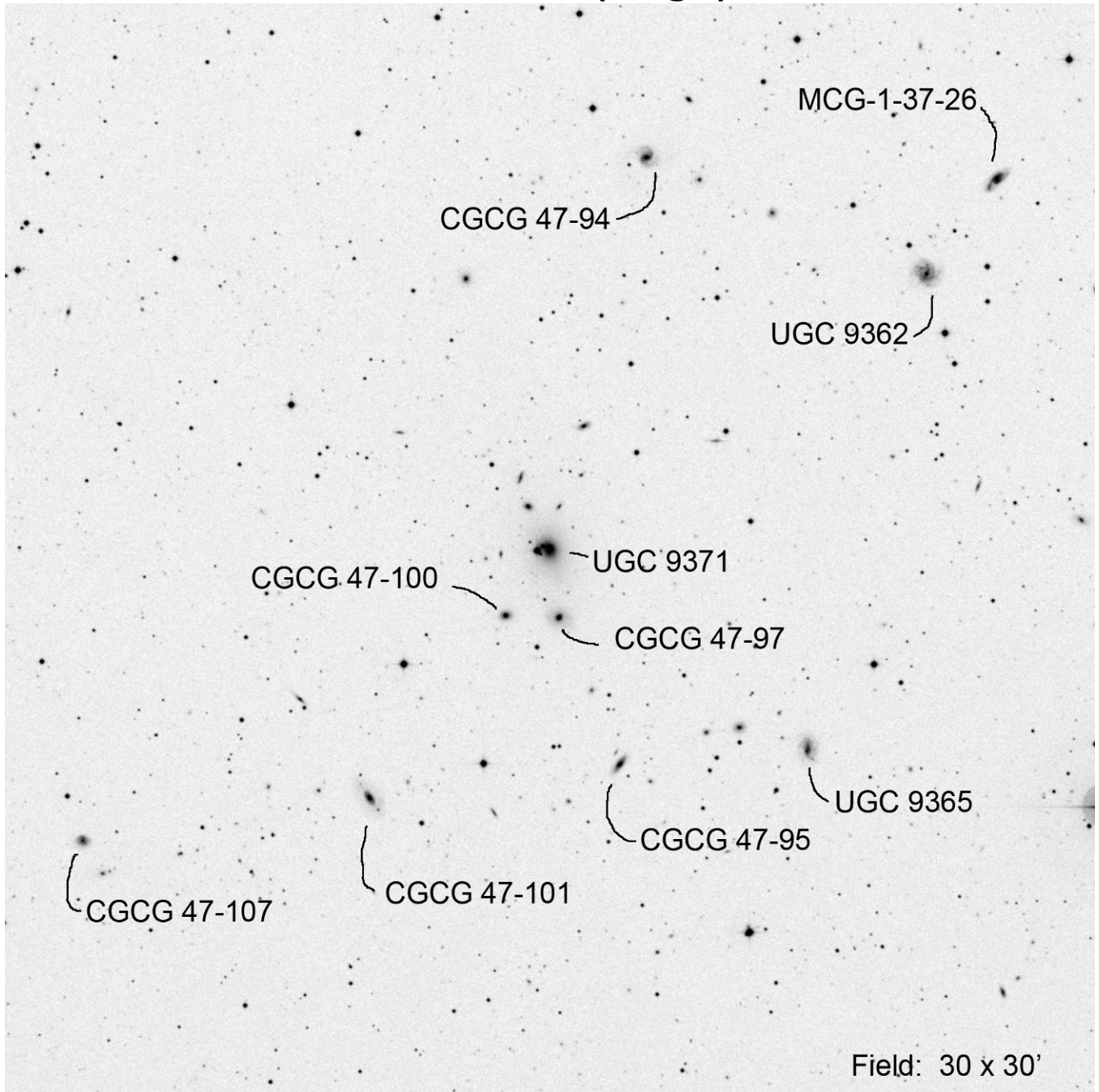


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 6	14 17 35.5	+02 03 11	15.3	9+

# UGC 9371 (Virgo)

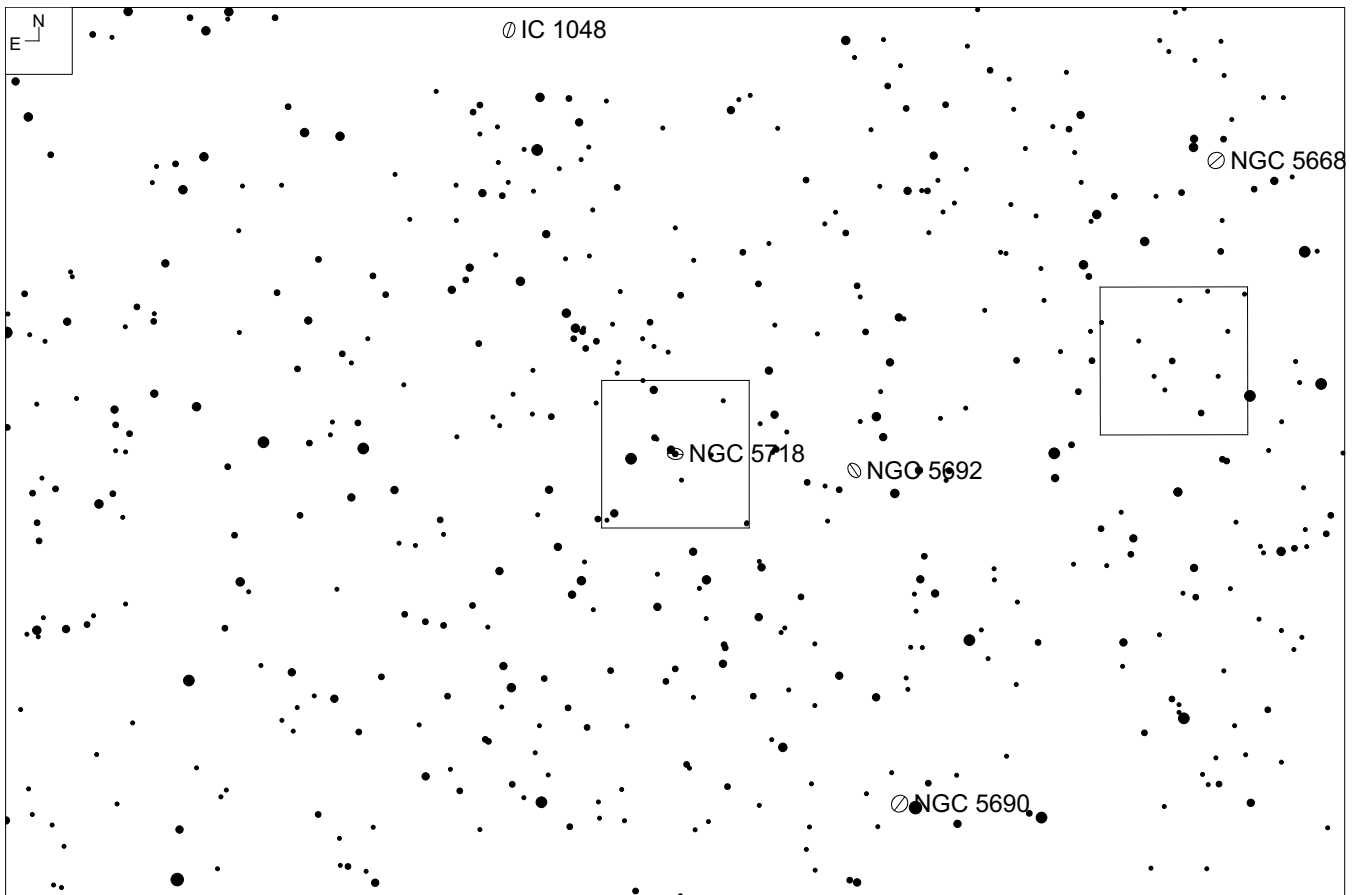
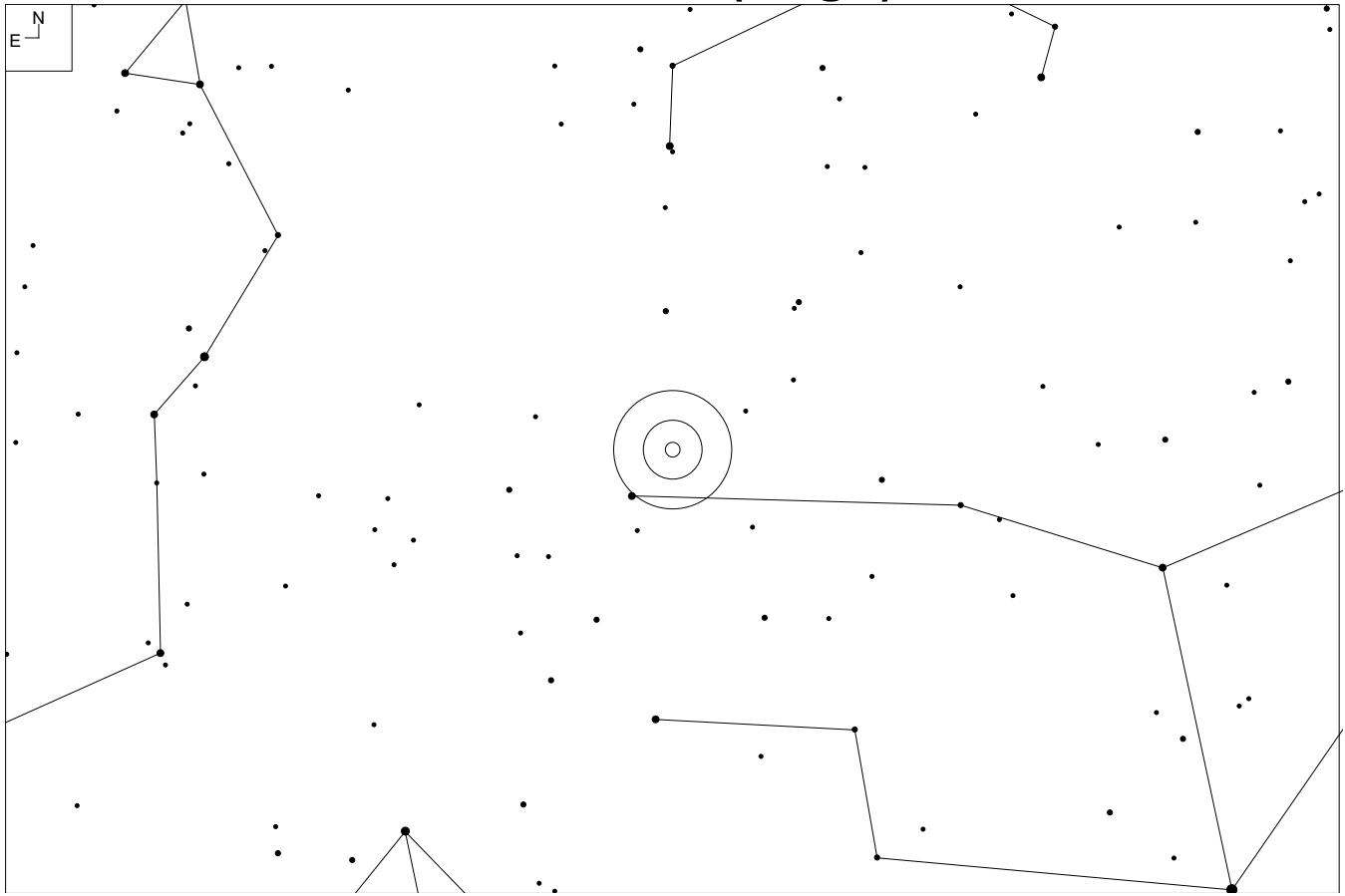


# UGC 9371 (Virgo)

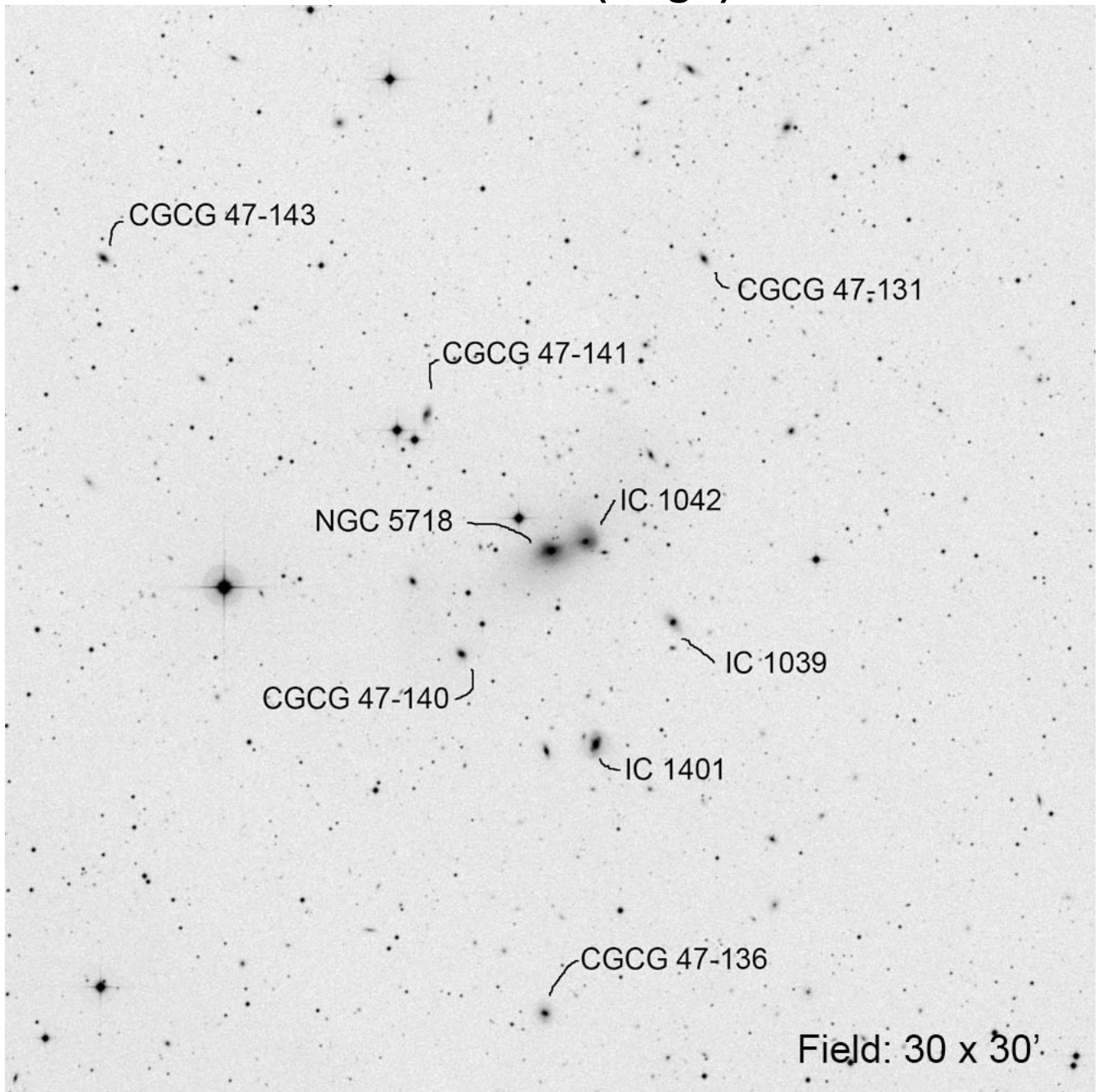


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 7	14 33 59.1	+03 46 40	15.0	10+

# NGC 5718 (Virgo)

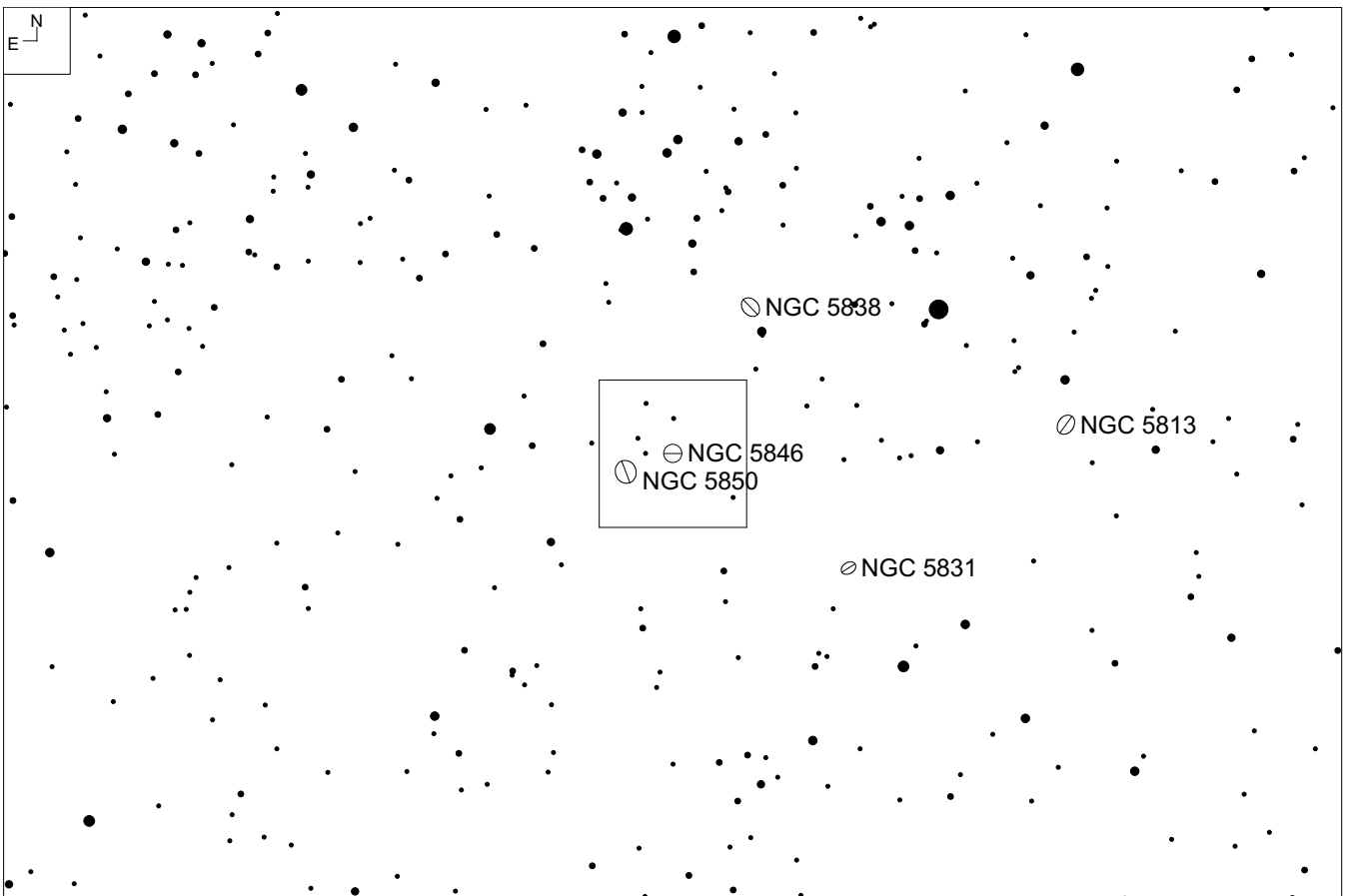
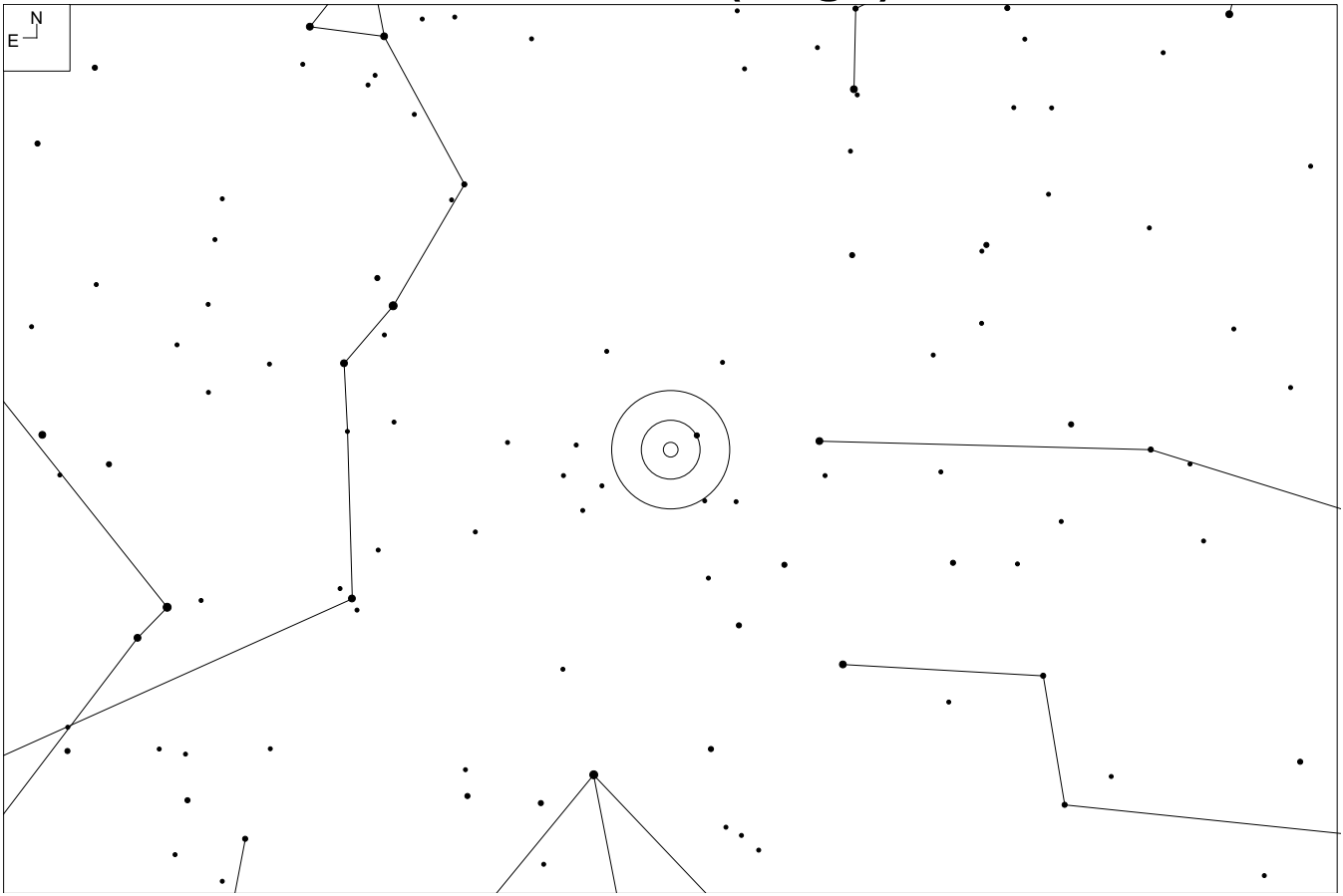


# NGC 5718 (Virgo)



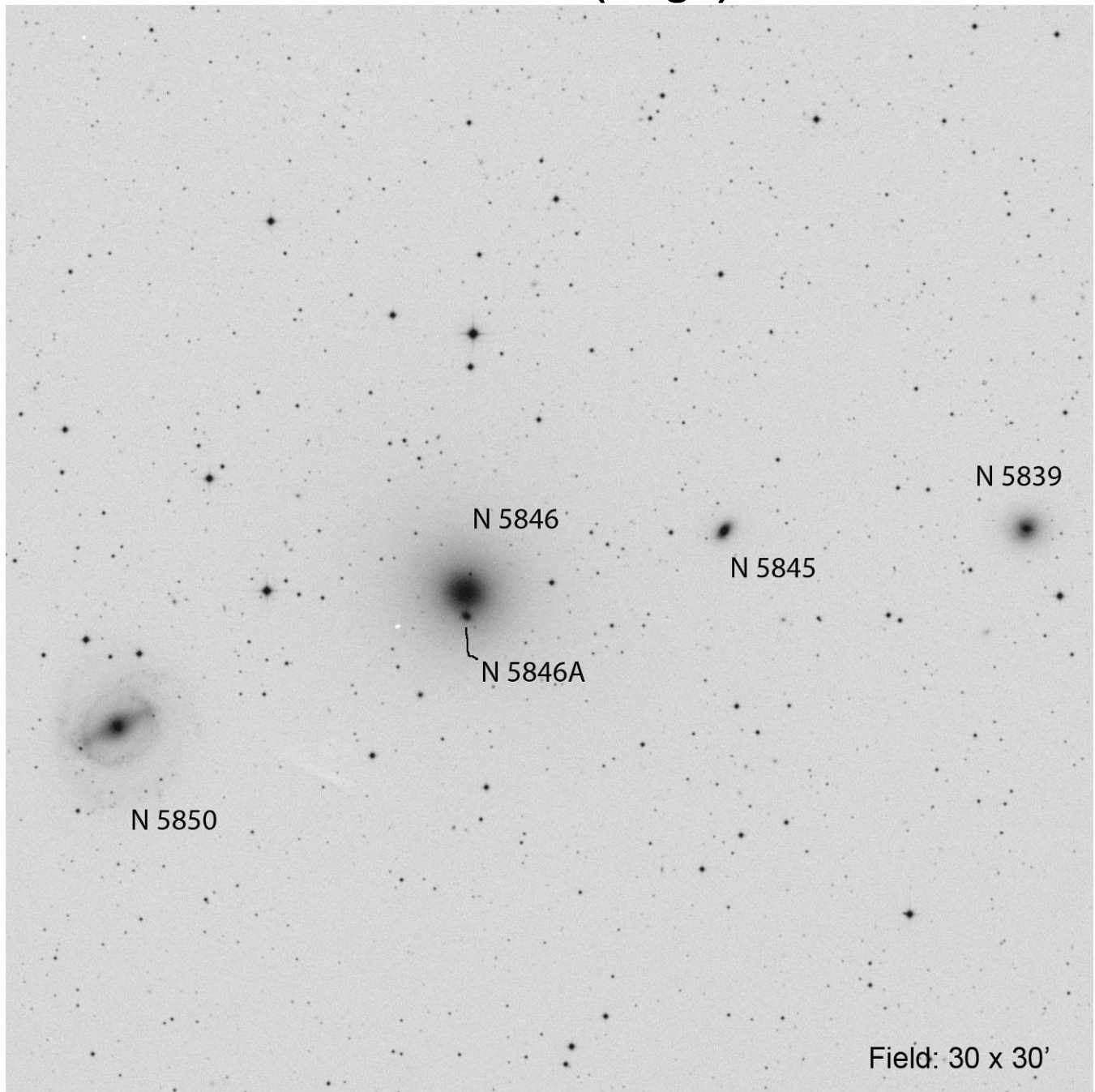
Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 8	14 40 42.9	+03 27 57	13.9	7+

# NGC 5846 (Virgo)



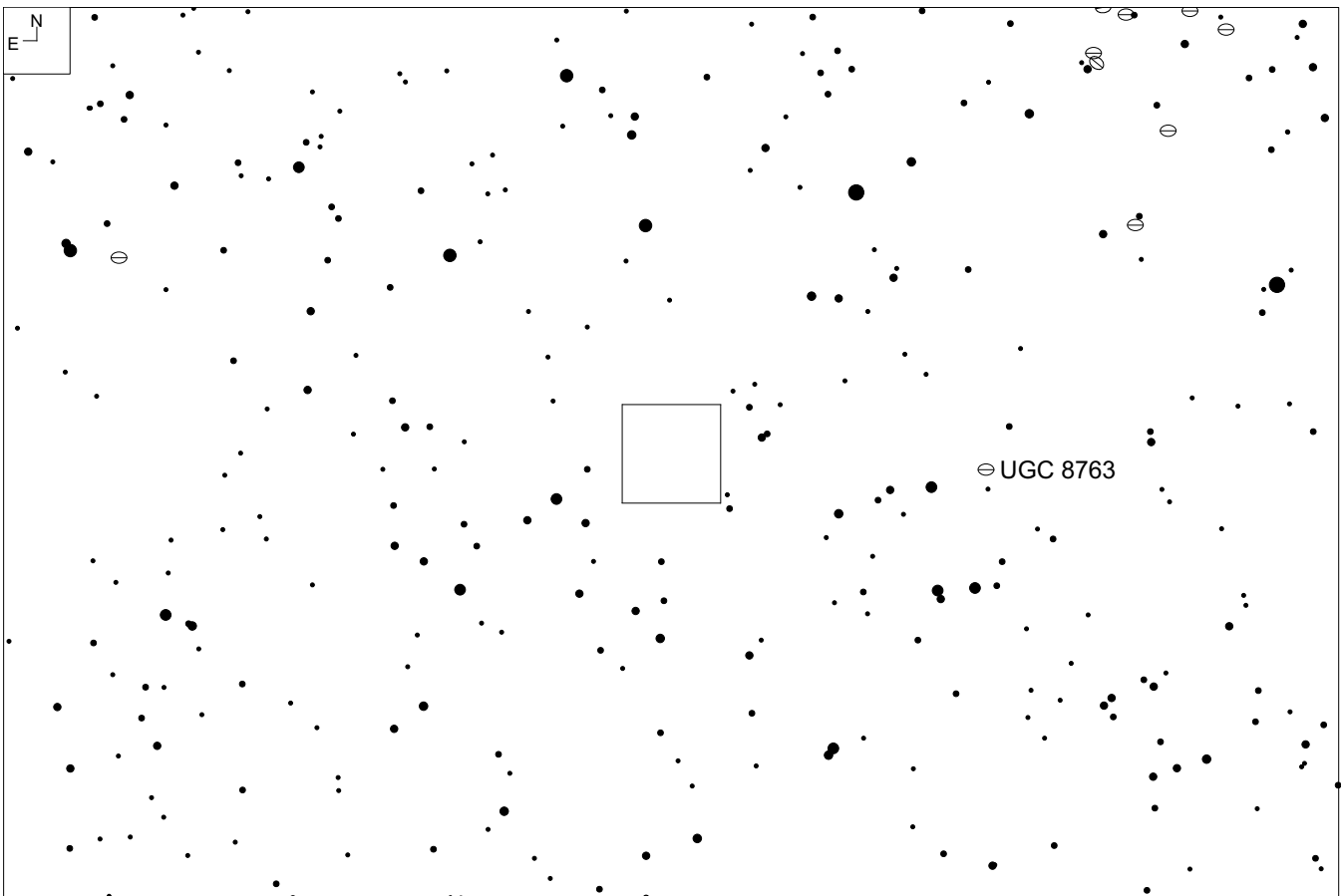
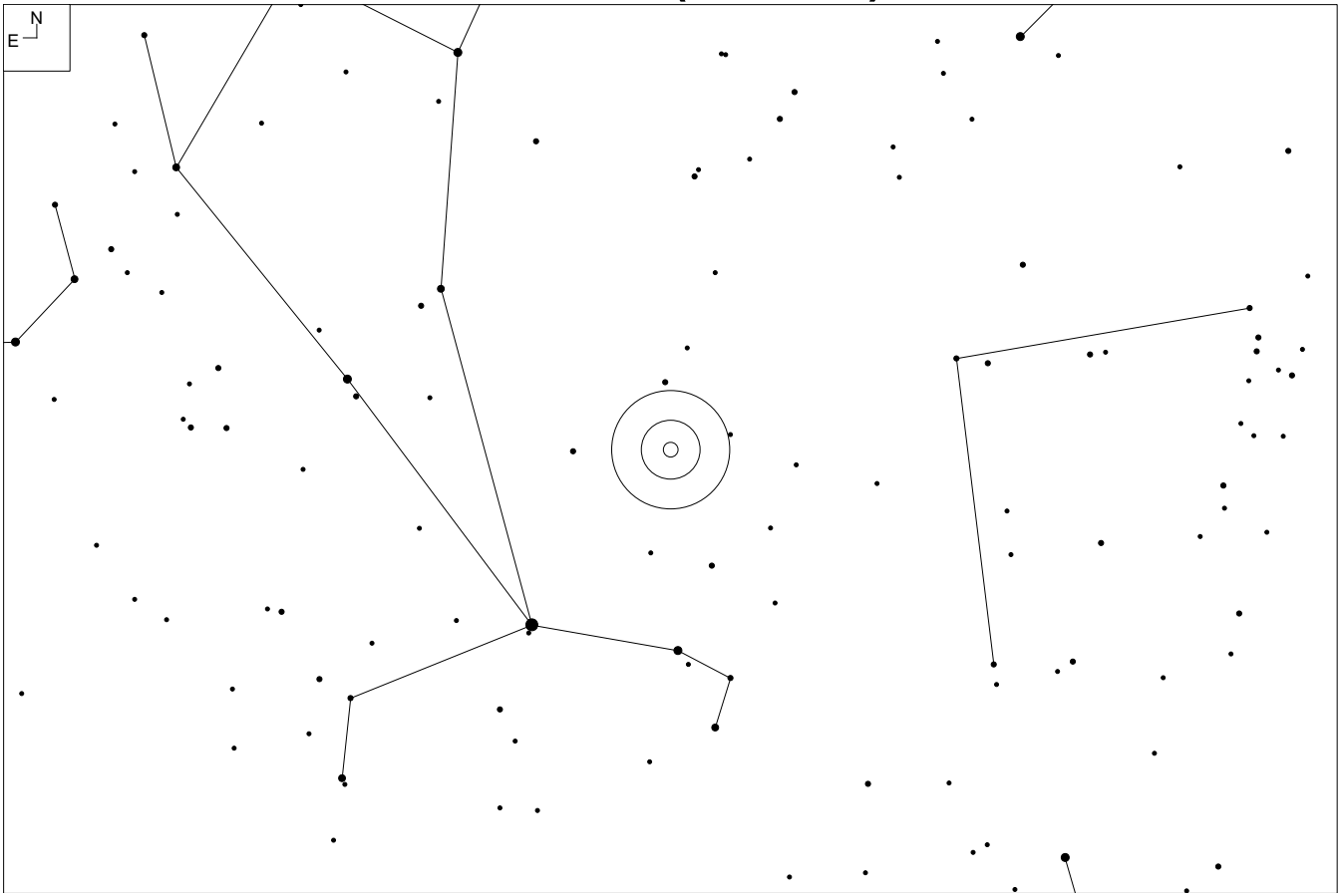


# NGC 5846 (Virgo)

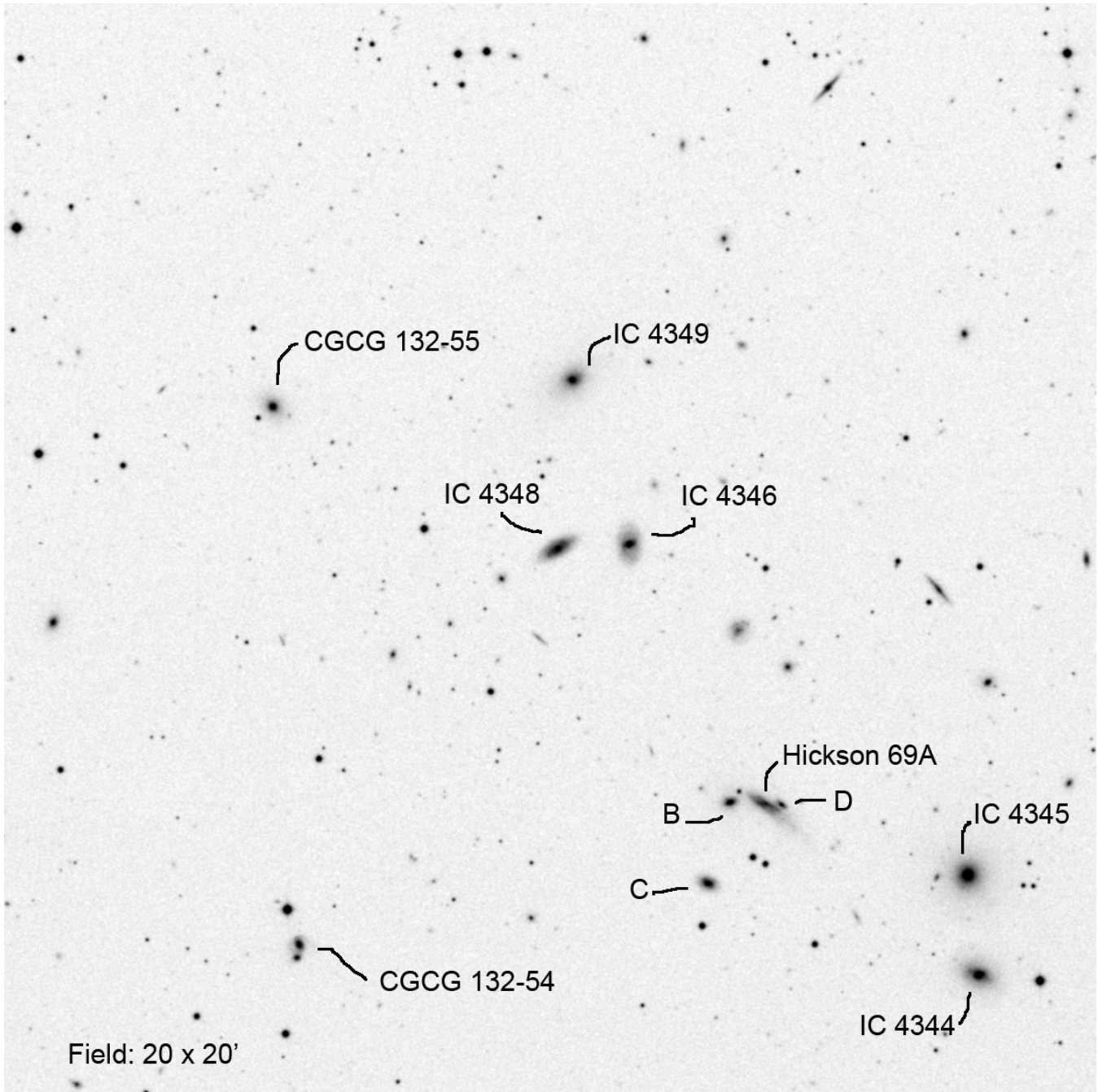


RA	Dec	Mag <sub>1</sub>	# of galaxies
15 06 29.2	+01 36 23	10.0	5

# IC 4349 (Bootes)



# IC 4349 (Bootes)

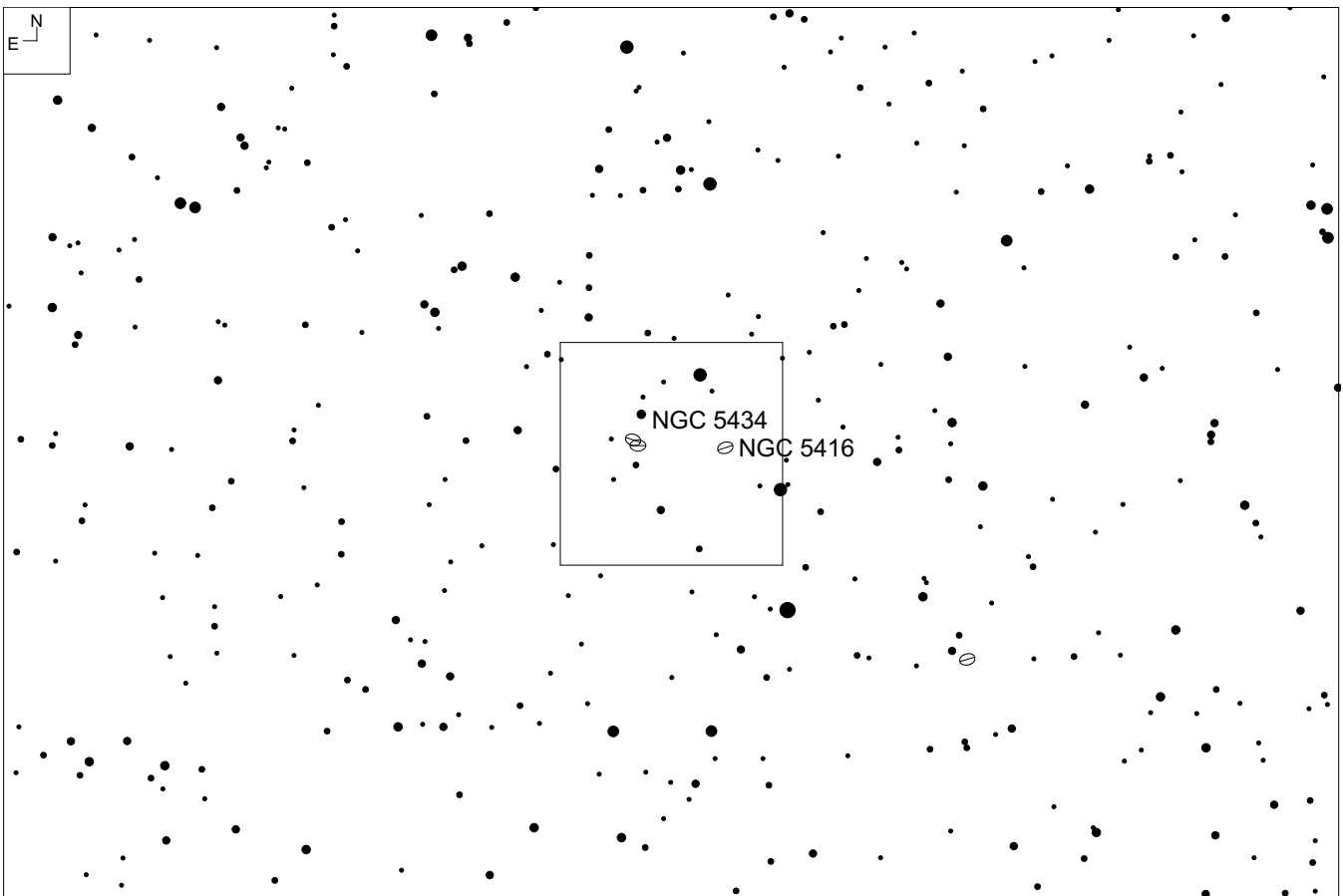
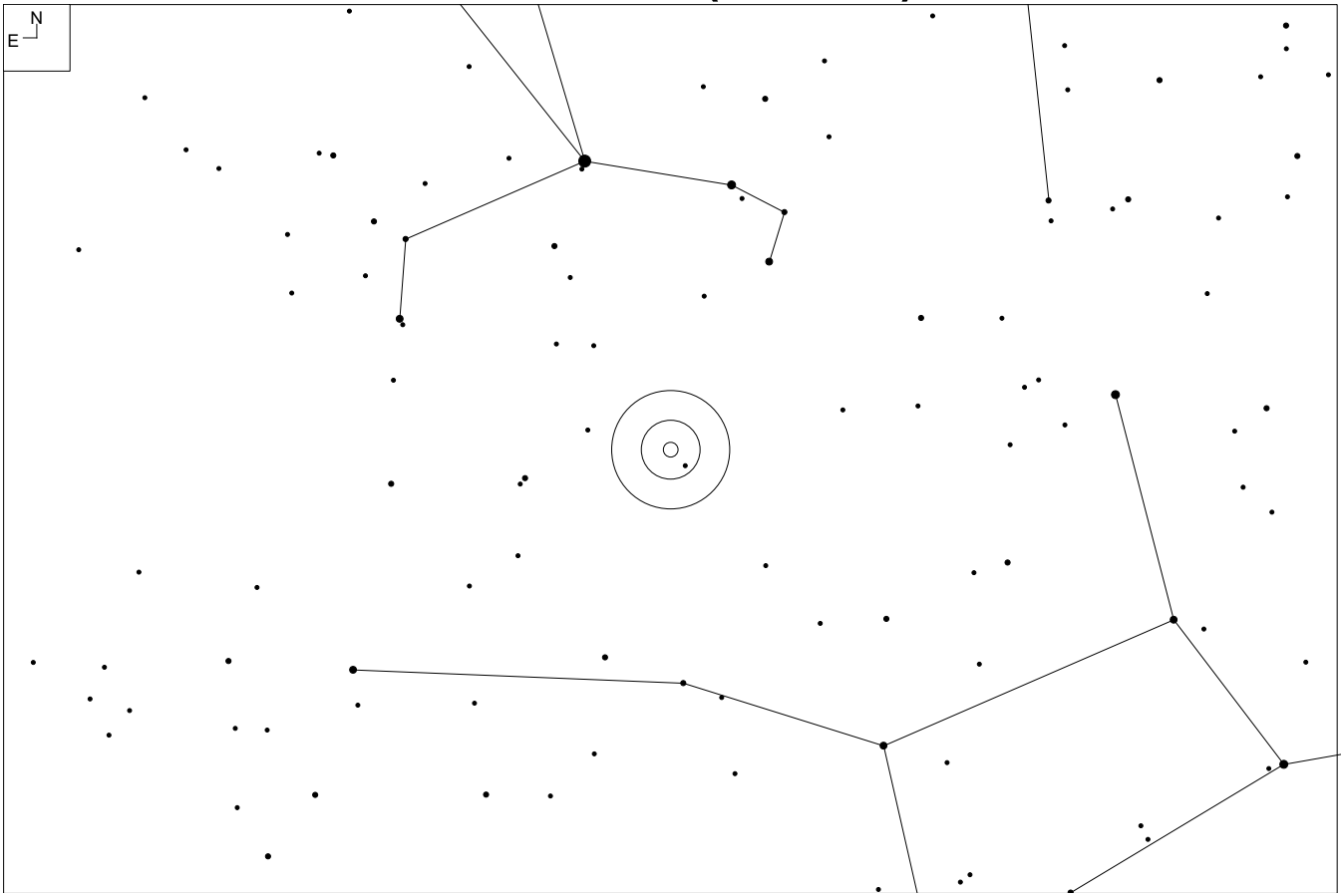


Field: 20 x 20'

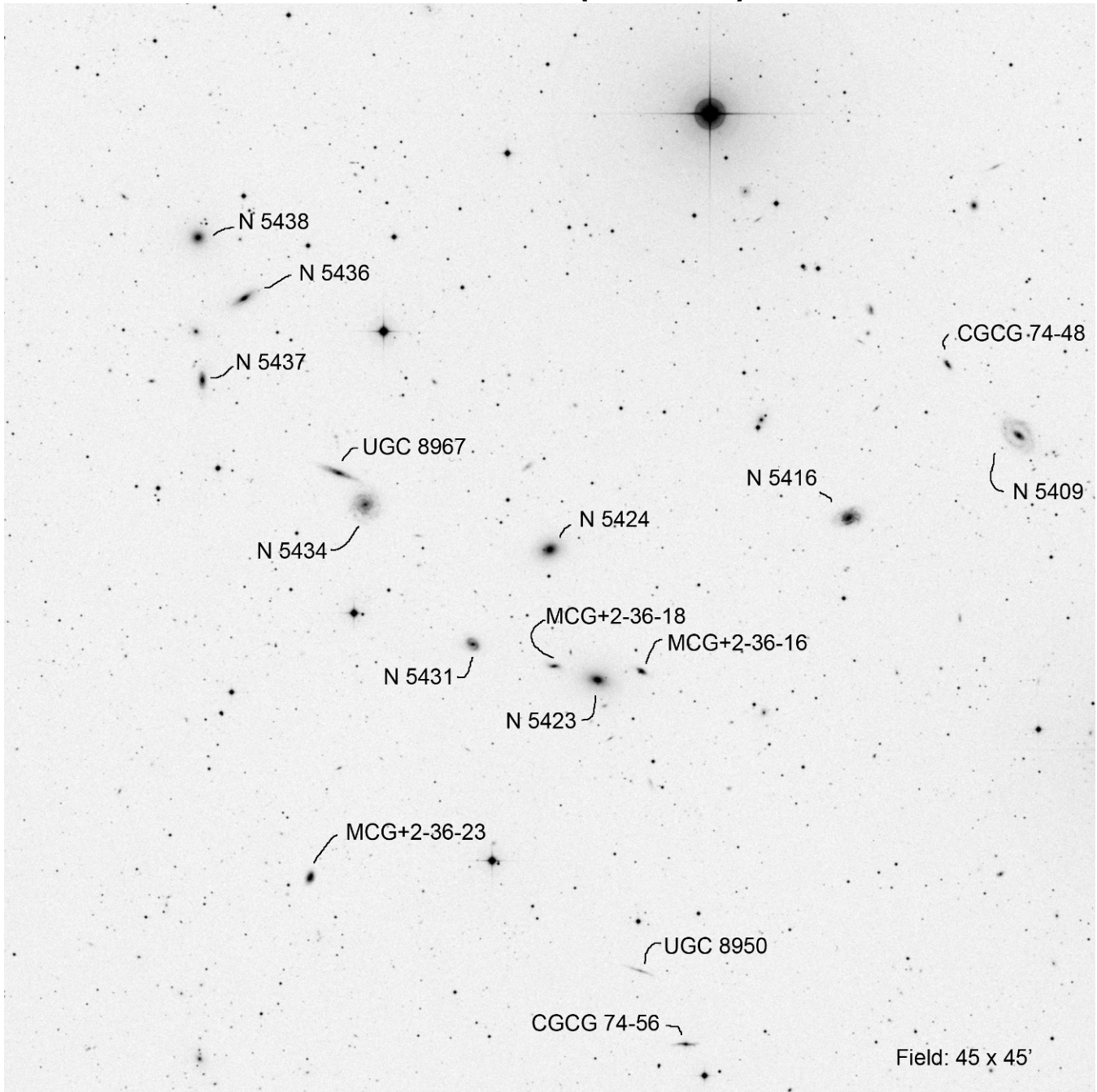
RA	Dec	Mag <sub>1</sub>	# of galaxies
13 55 45.1	+25 12 11	15.3	20+

**Includes Hickson 69**

# NGC 5434 (Bootes)

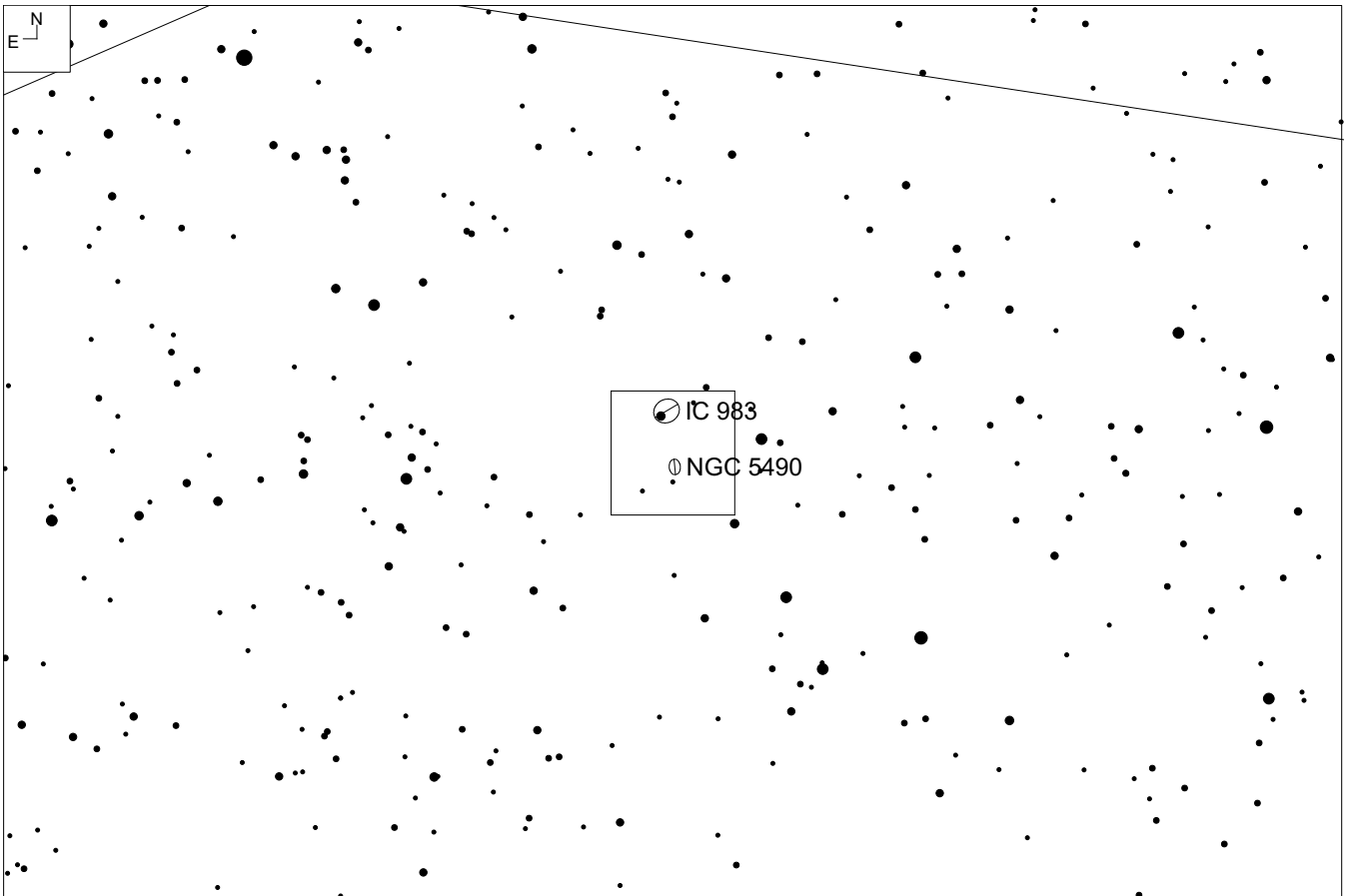
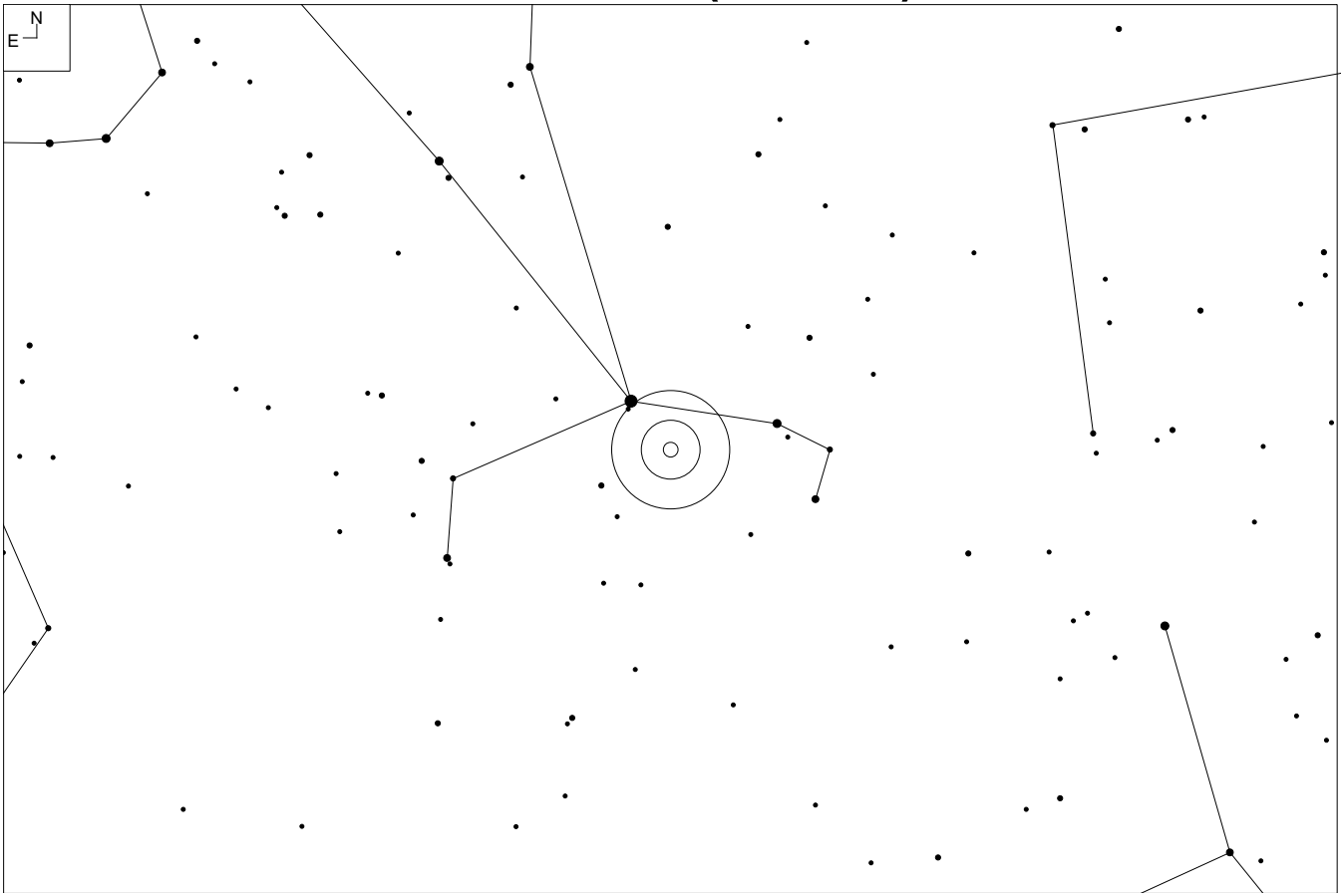


# NGC 5434 (Bootes)

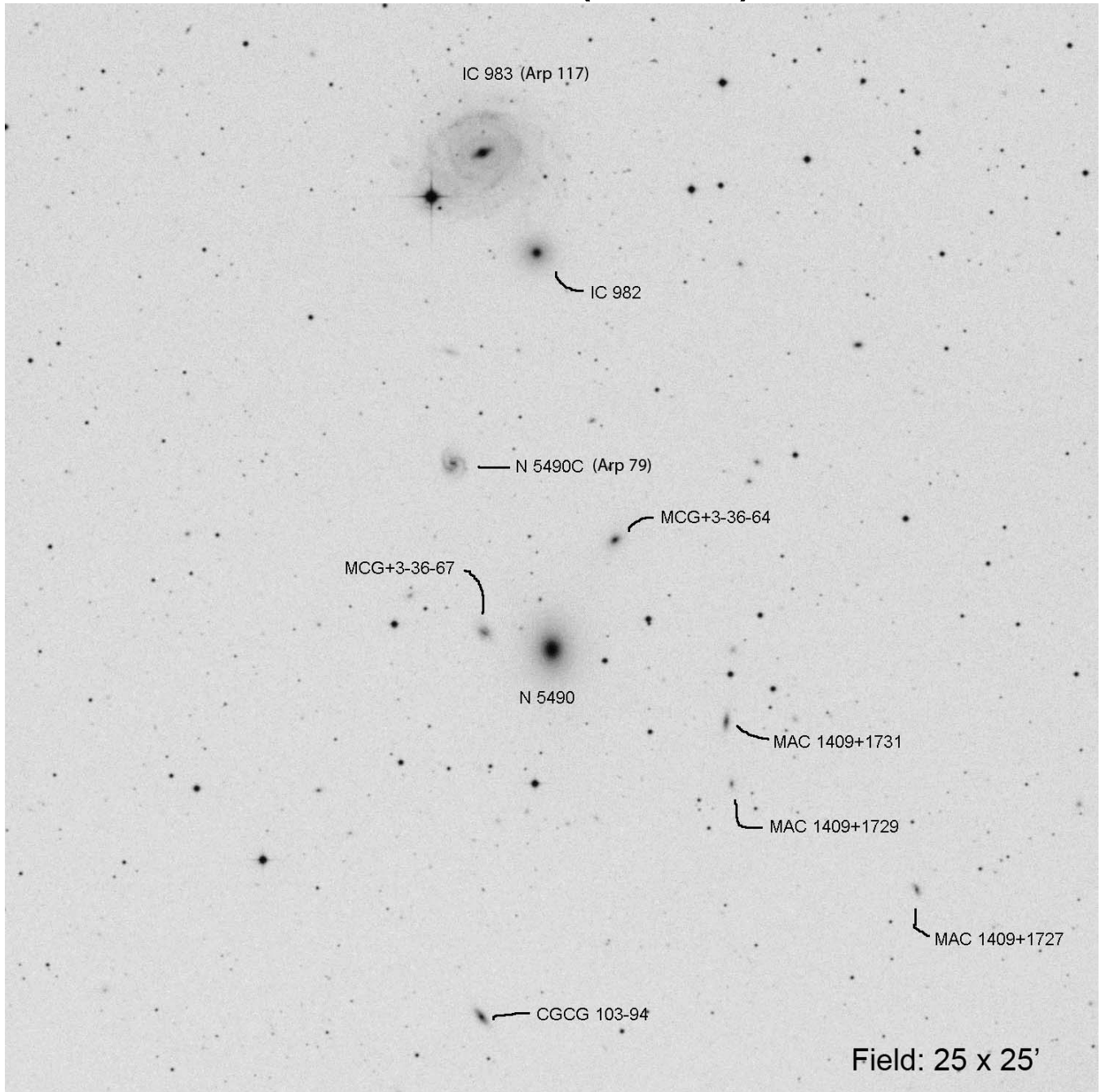


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 12	13 53 26.7	+40 18 09	13.2	10

# NGC 5490 (Bootes)



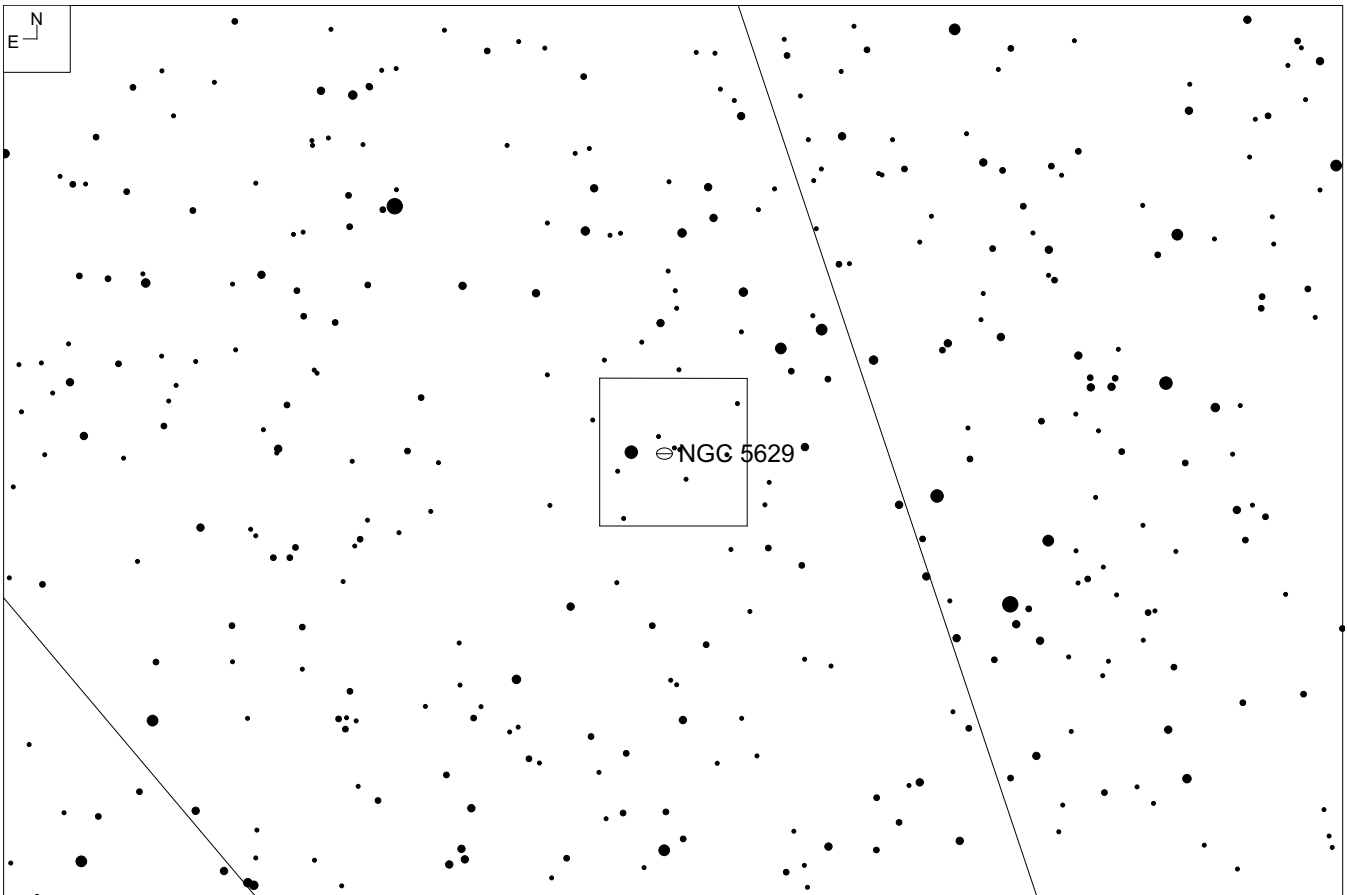
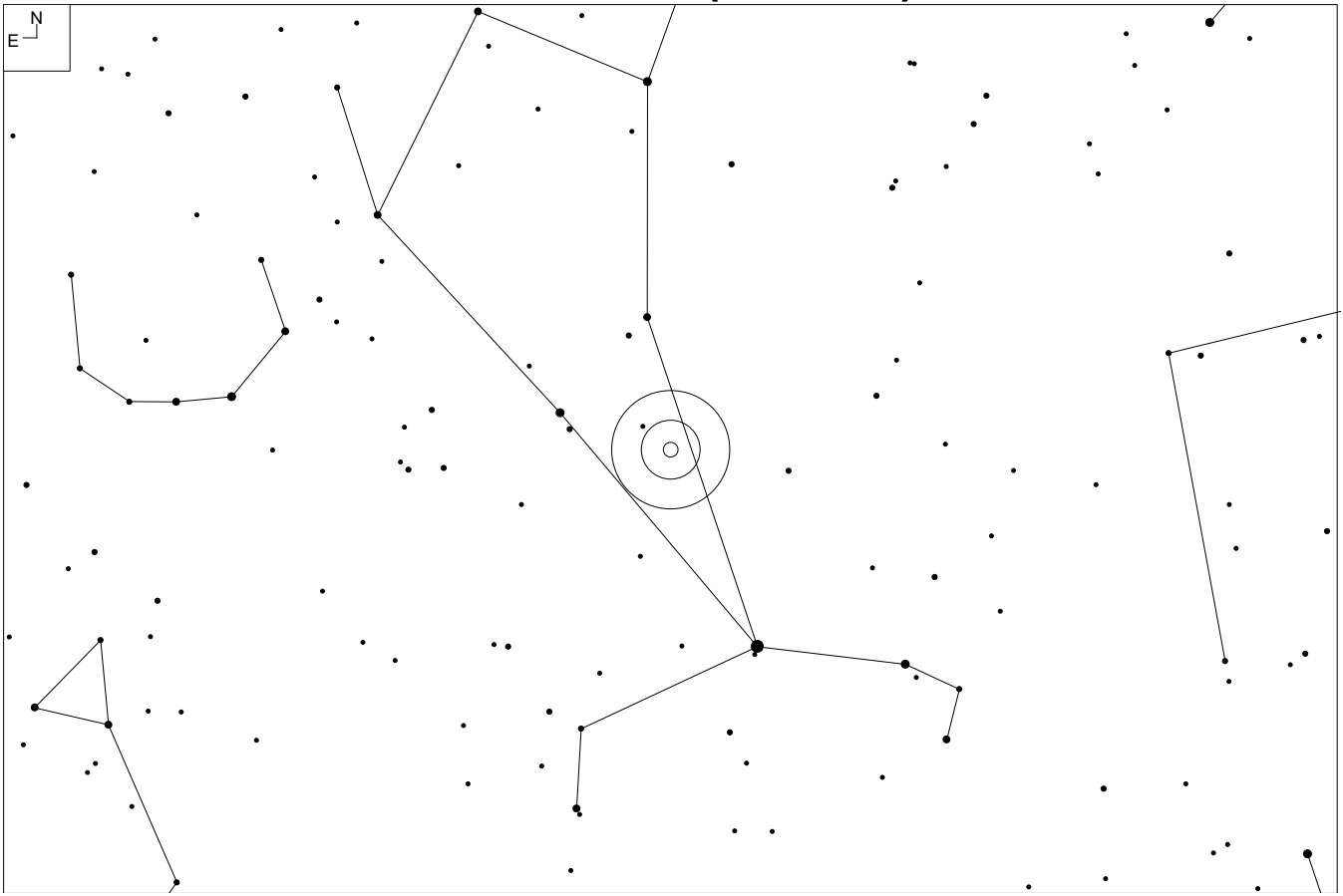
# NGC 5490 (Bootes)



RA	Dec	Mag <sub>1</sub>	# of galaxies
14 09 57.3	+17 32 44	12.1	6

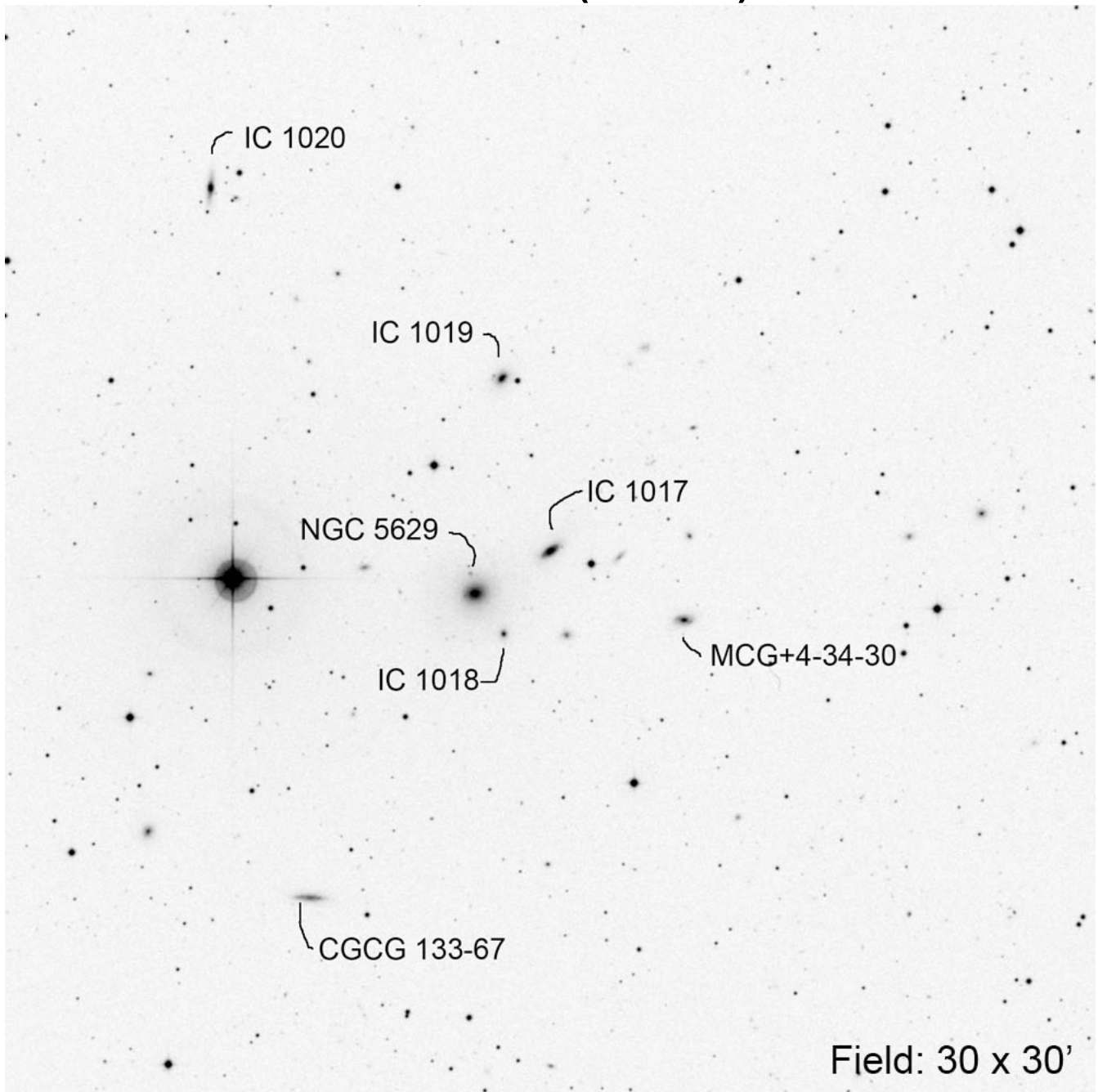
Includes Arp 79 and Arp 117

# NGC 5629 (Bootes)



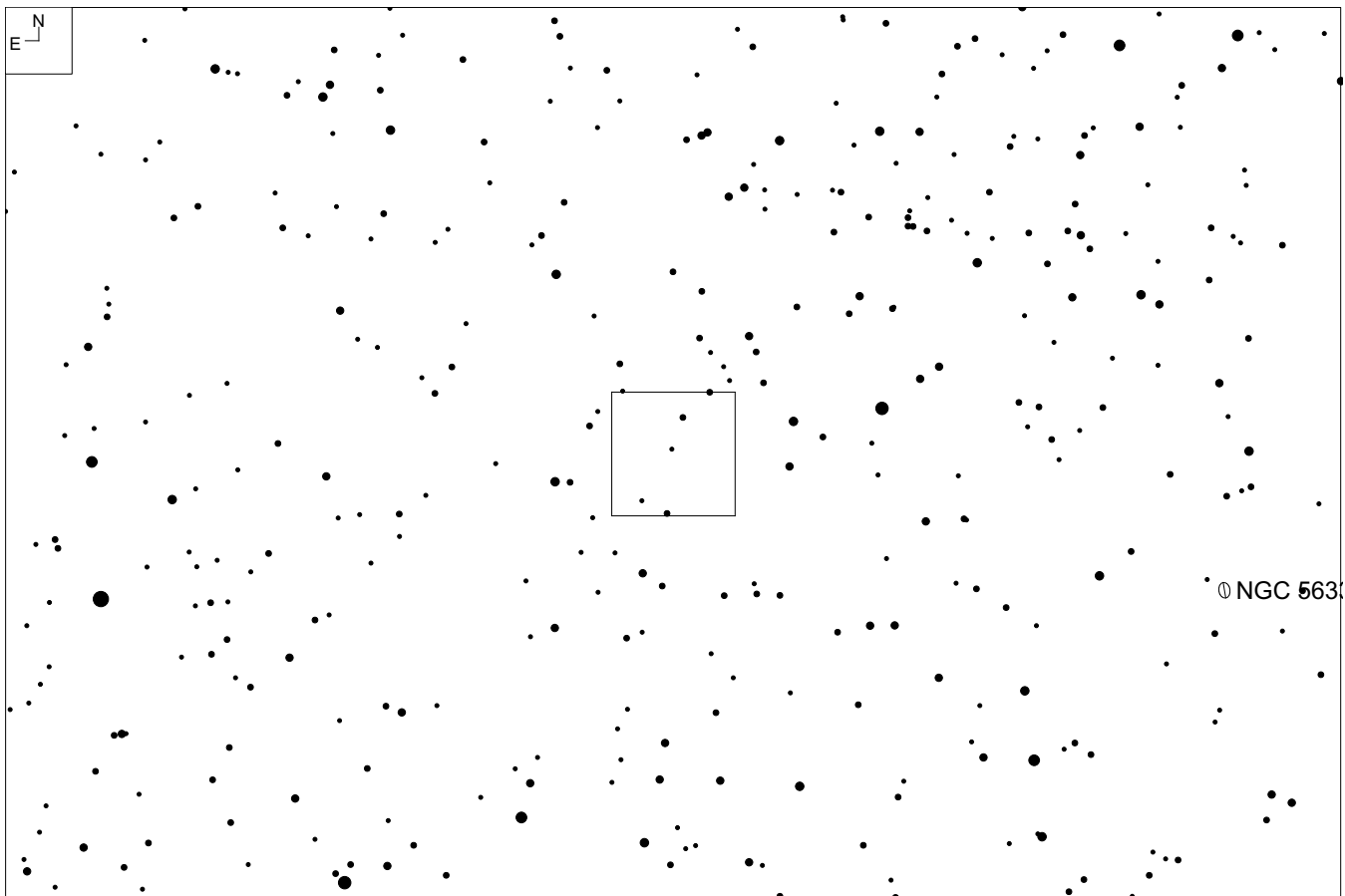
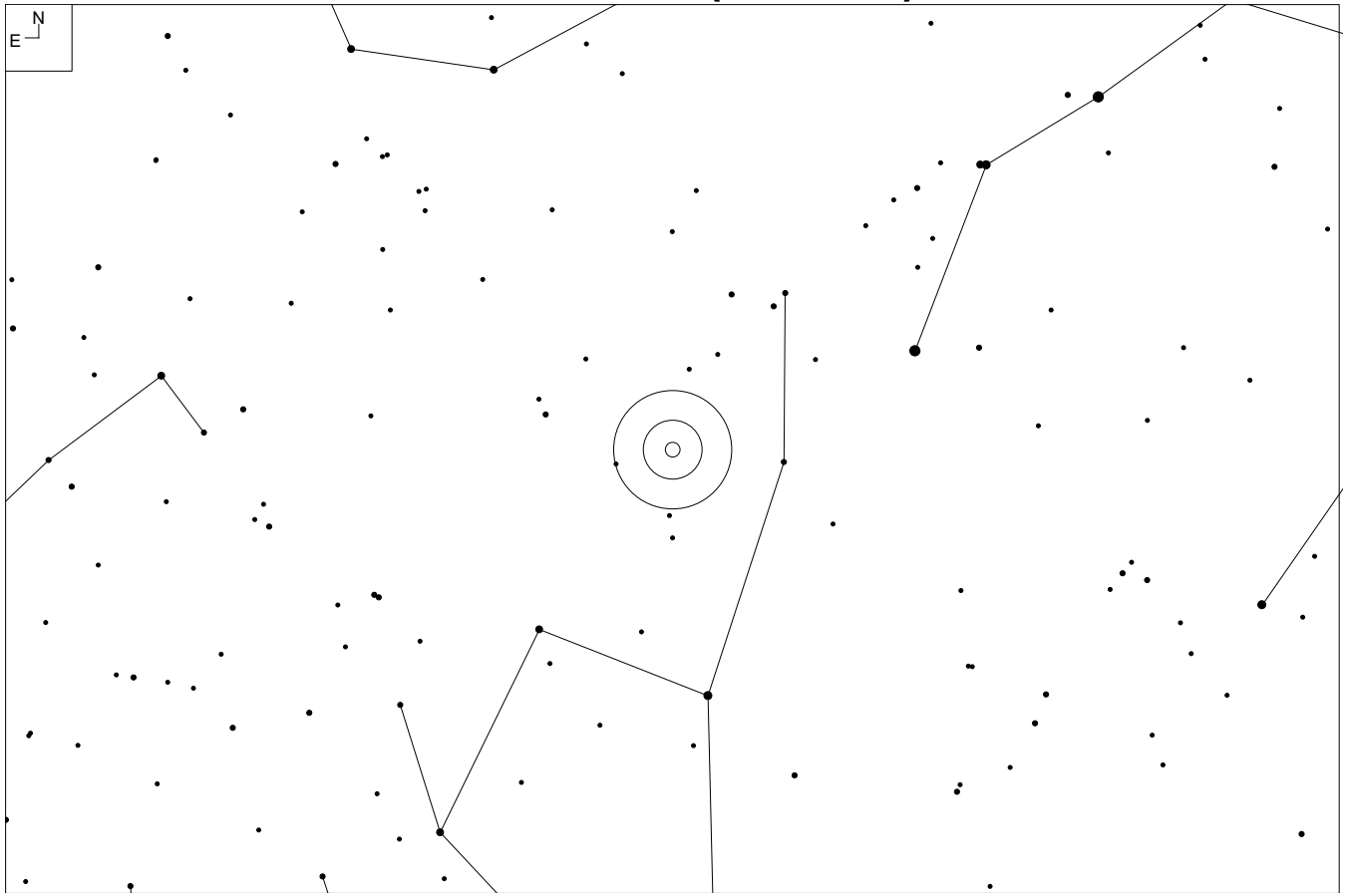


# NGC 5629 (Bootes)

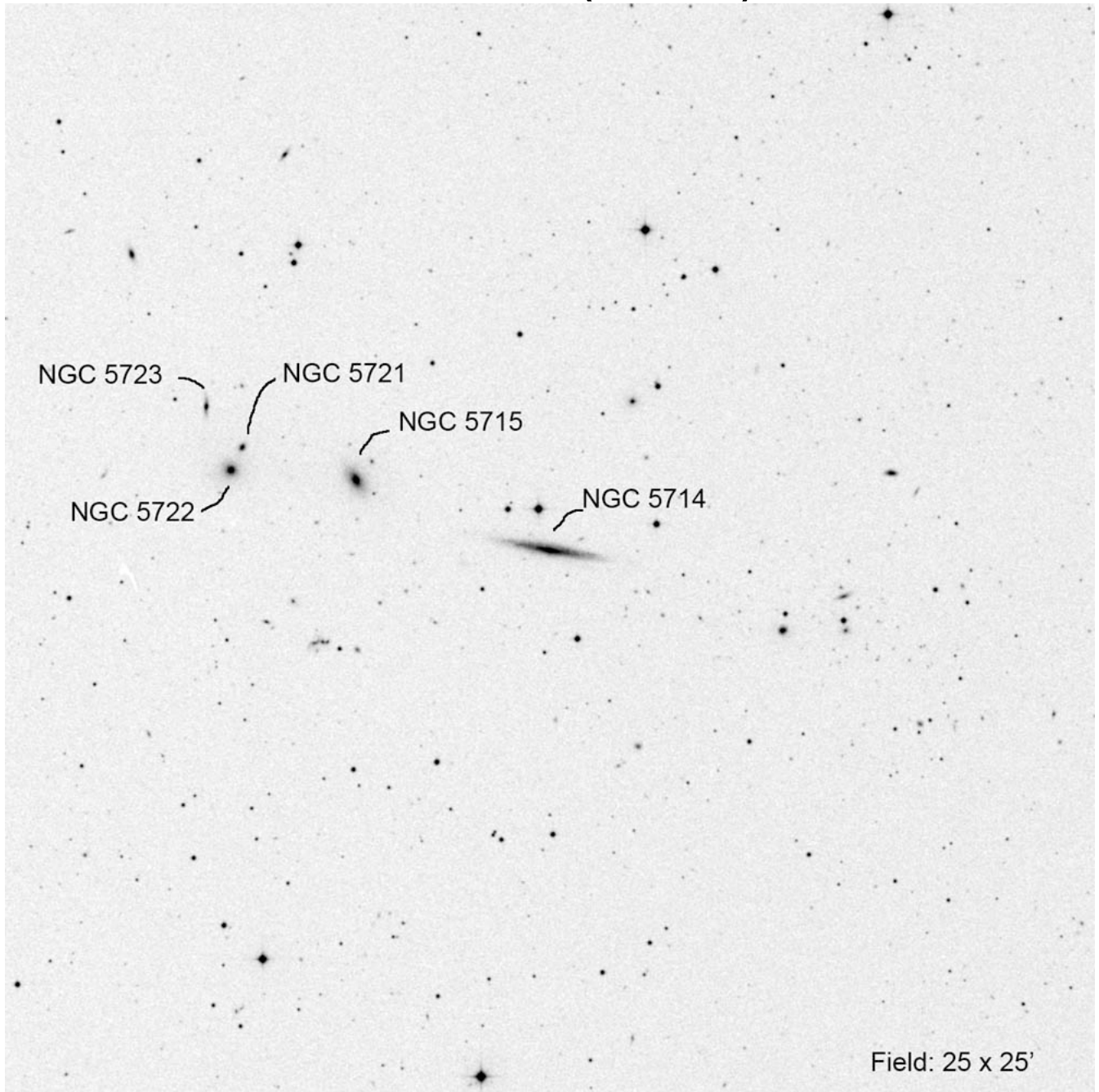


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AWM 3	14 28 16.3	+25 50 55	13.0	7+

# NGC 5714 (Bootes)



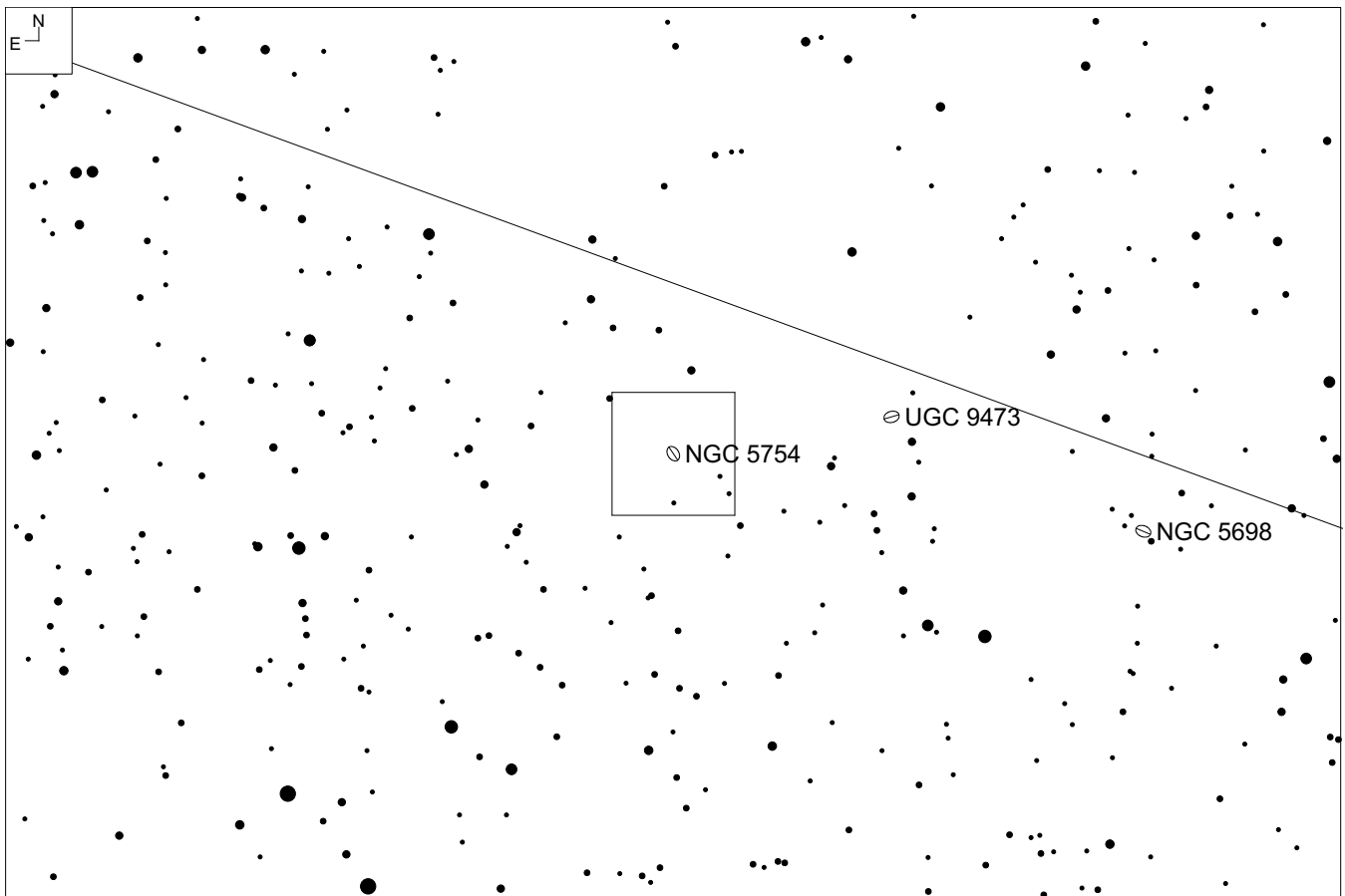
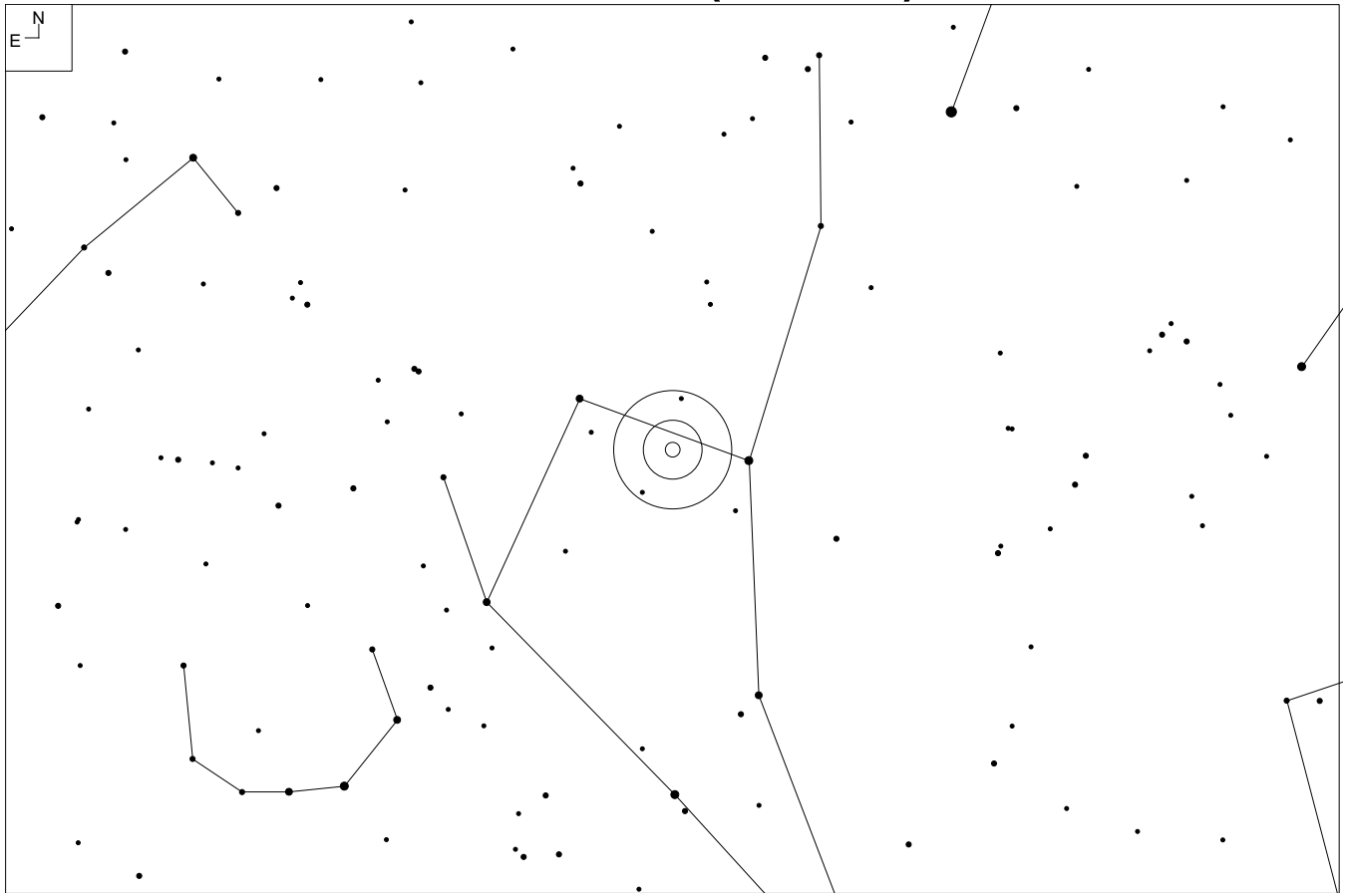
# NGC 5714 (Bootes)



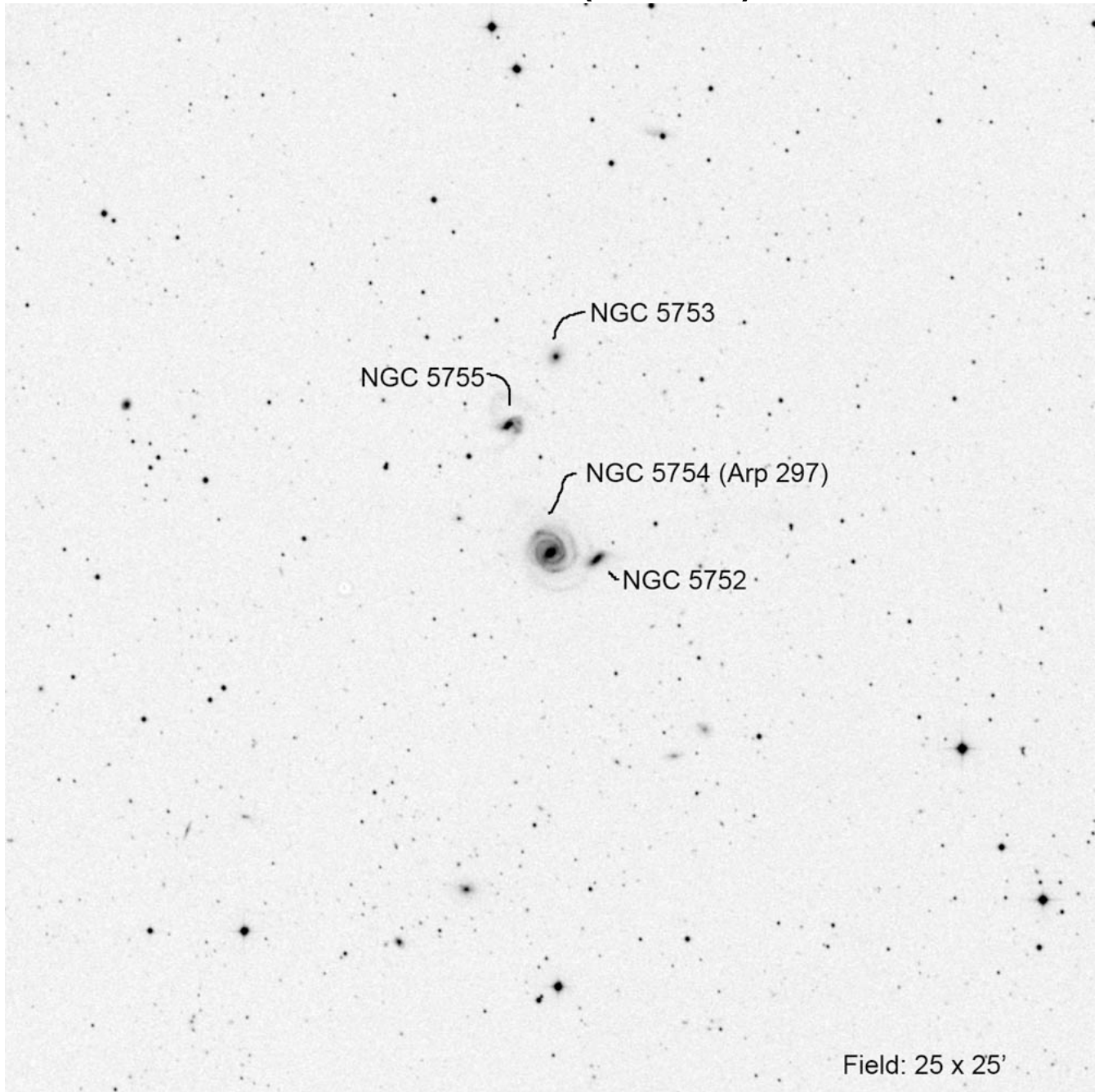
Field: 25 x 25'

RA	Dec	Mag <sub>1</sub>	# of galaxies
14 38 11.4	+46 38 19	13.4	10+

# NGC 5754 (Bootes)



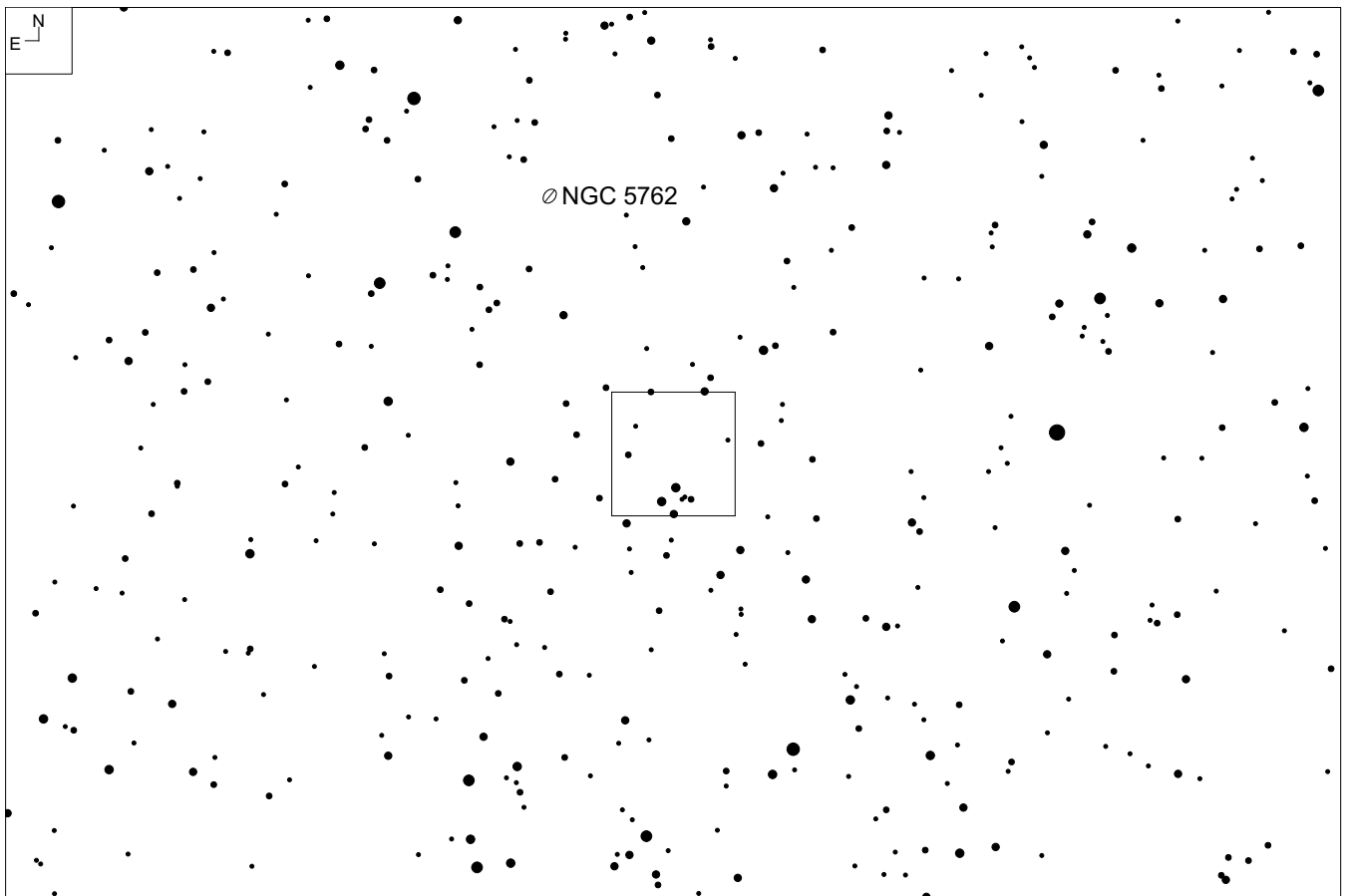
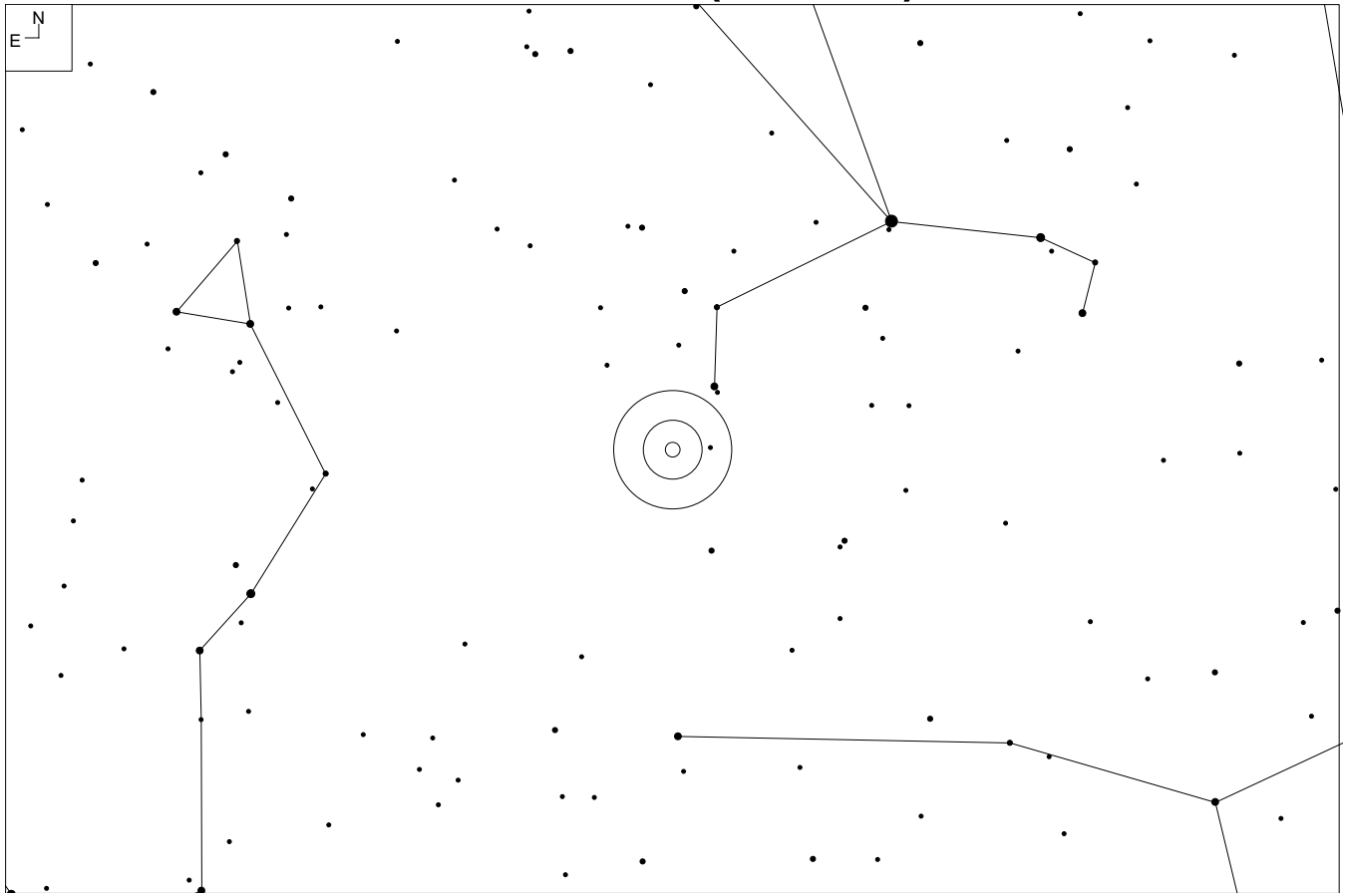
# NGC 5754 (Bootes)



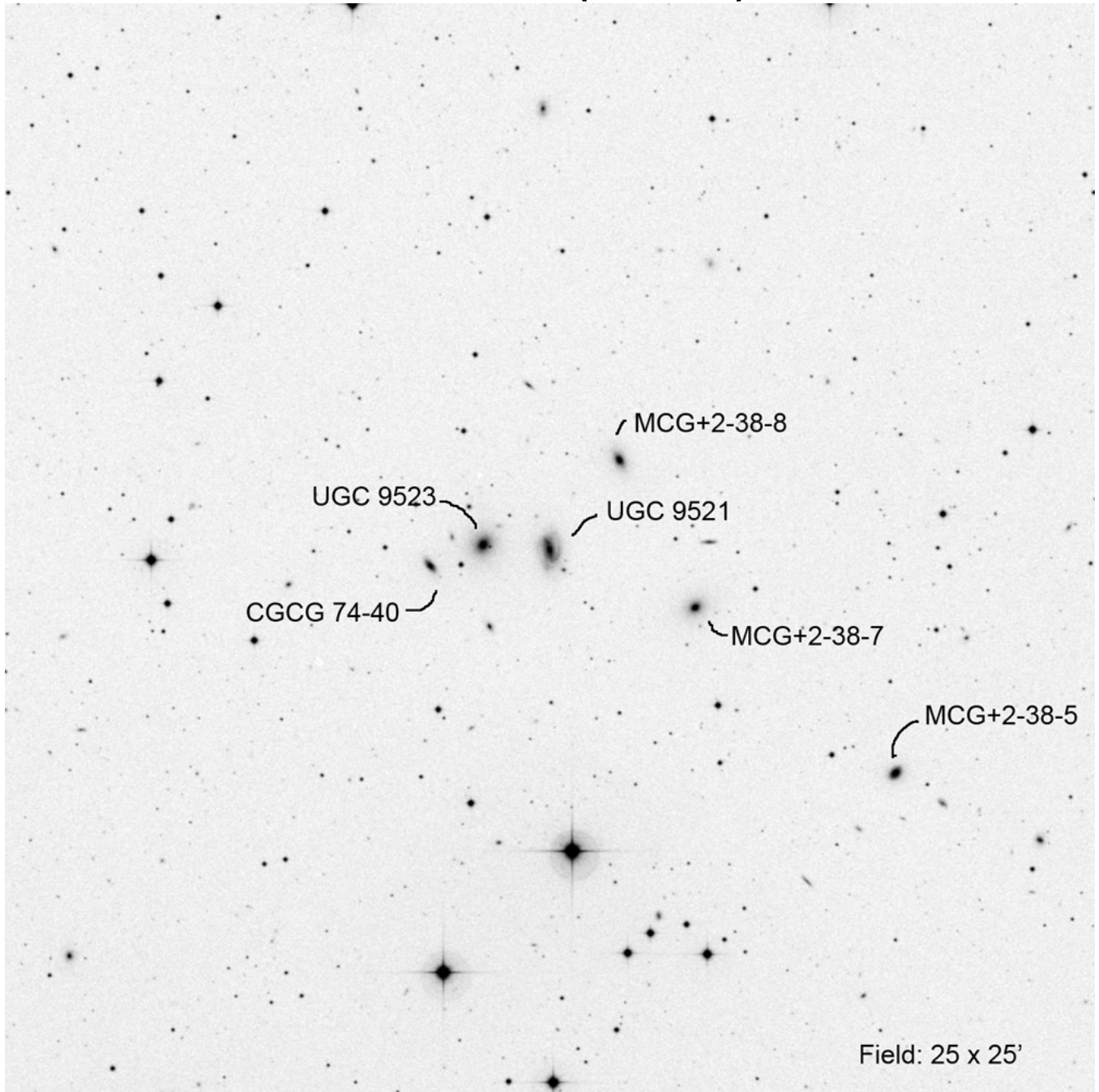
Ngc			
RA	Dec	Mag <sub>1</sub>	# of galaxies
14 45 19.7	+38 43 57	13.1	4

Includes Arp 297

# UGC 9521 (Bootes)

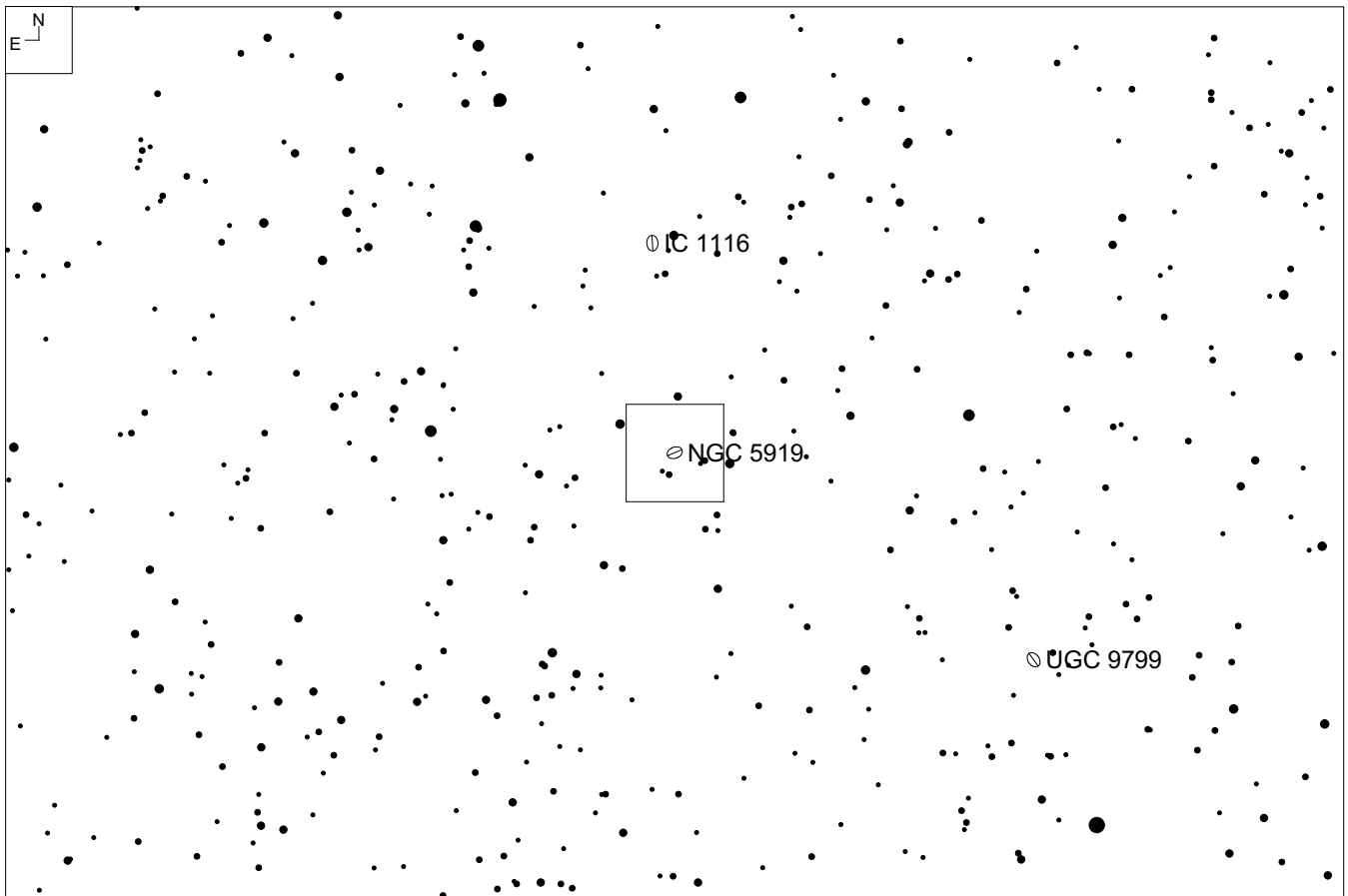
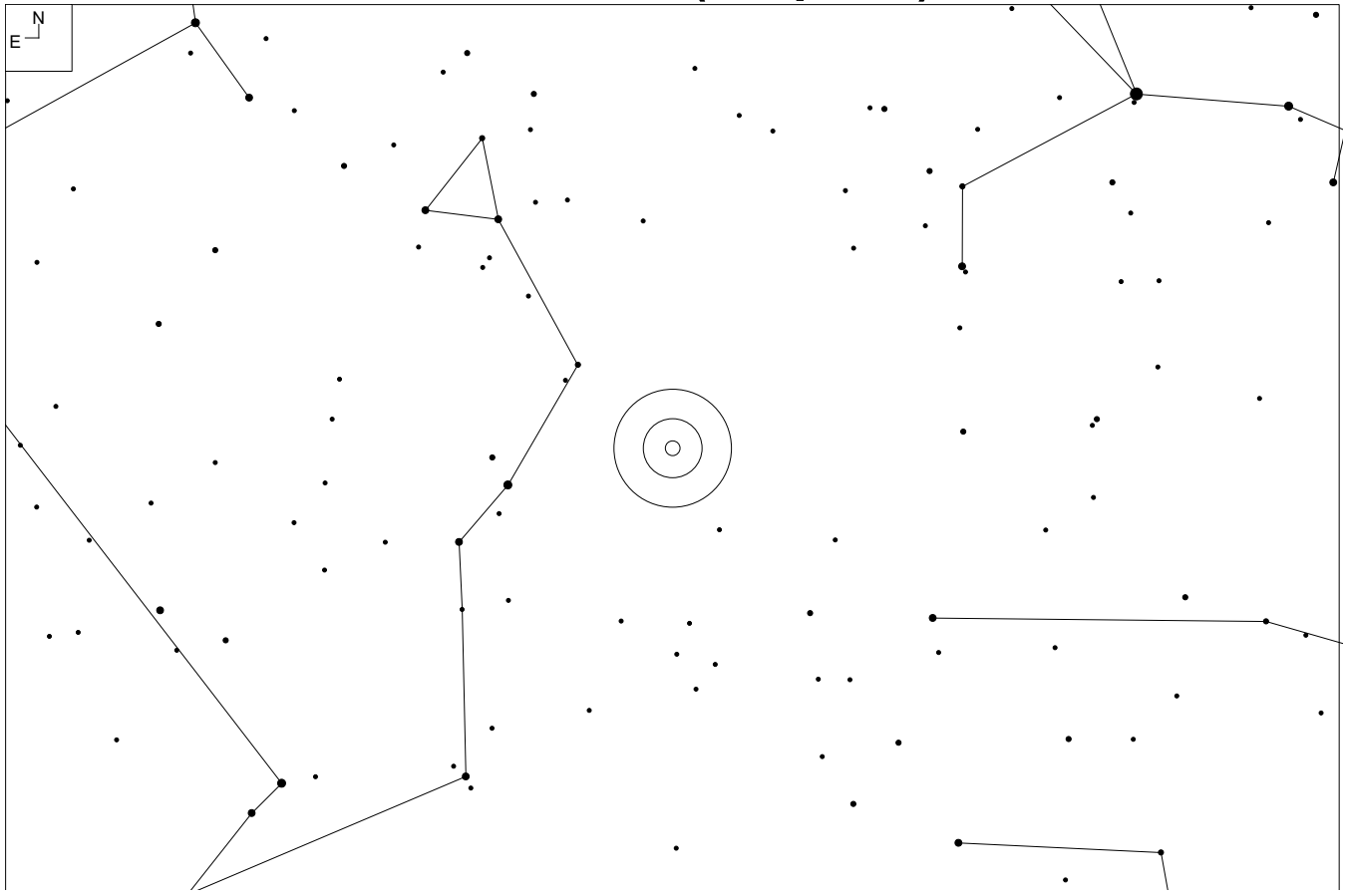


# UGC 9521 (Bootes)



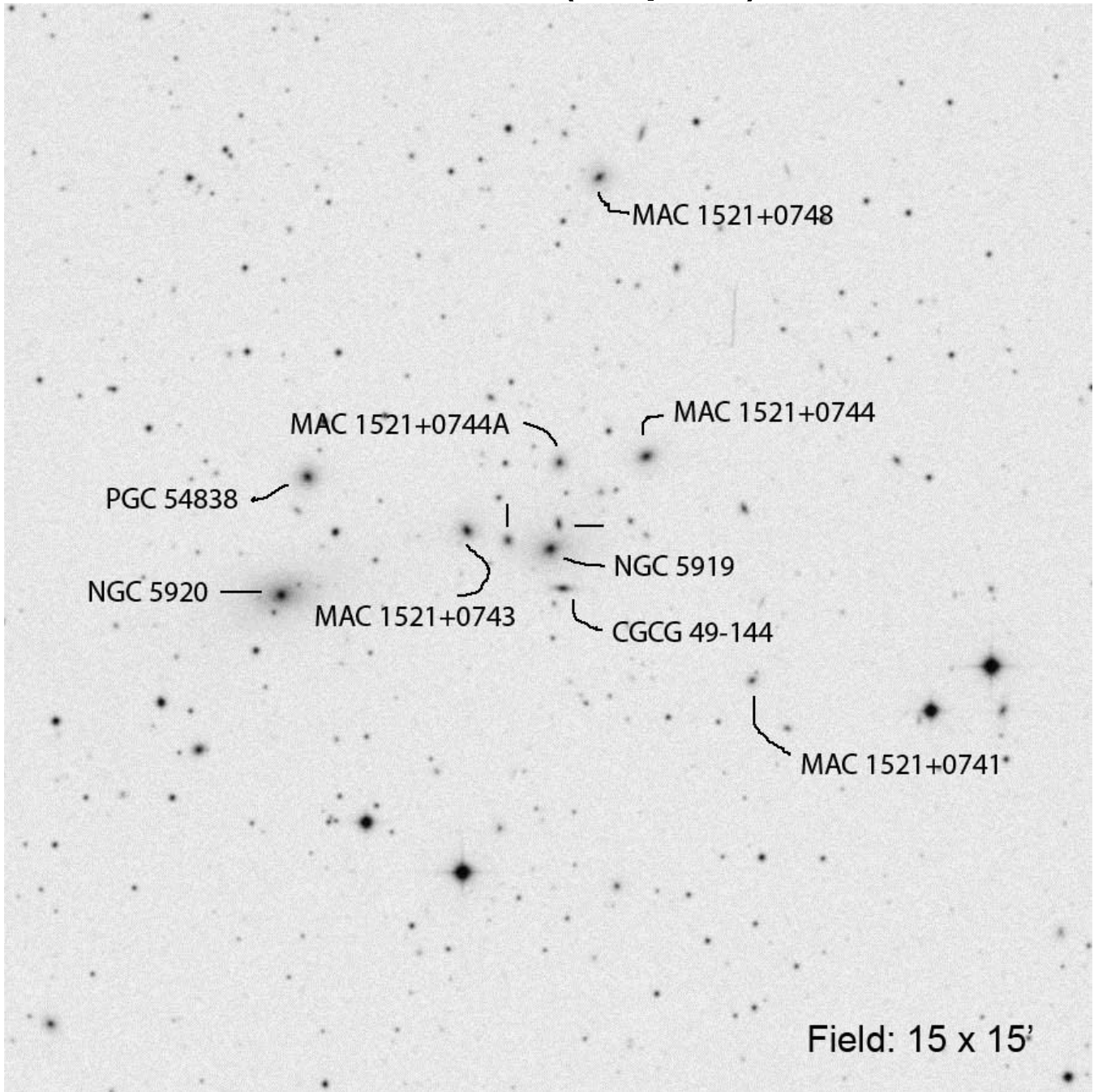
RA	Dec	Mag <sub>1</sub>	# of galaxies
14 47 00.1	+11 35 31	14.4	6

# NGC 5920 (Serpens)





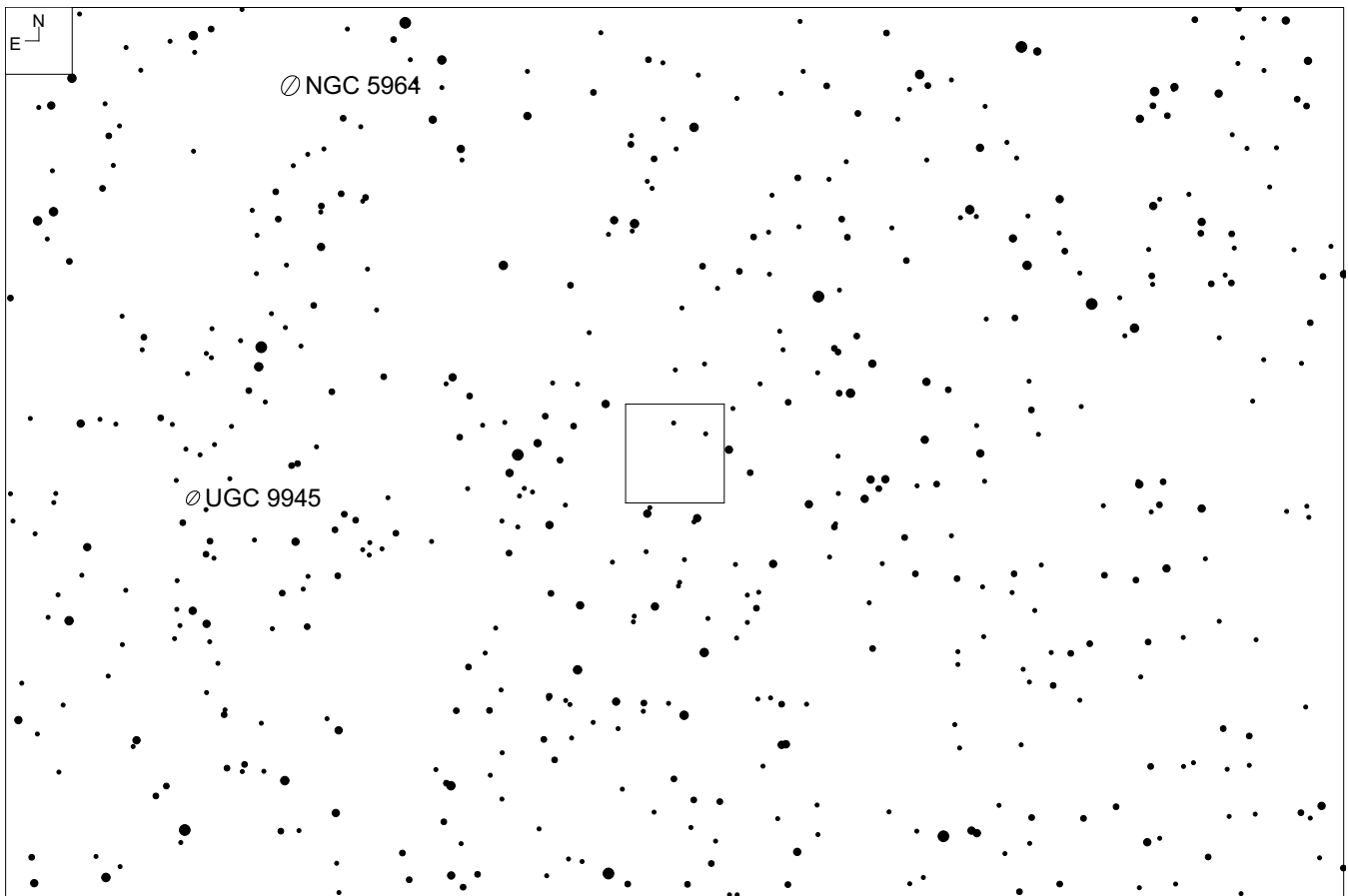
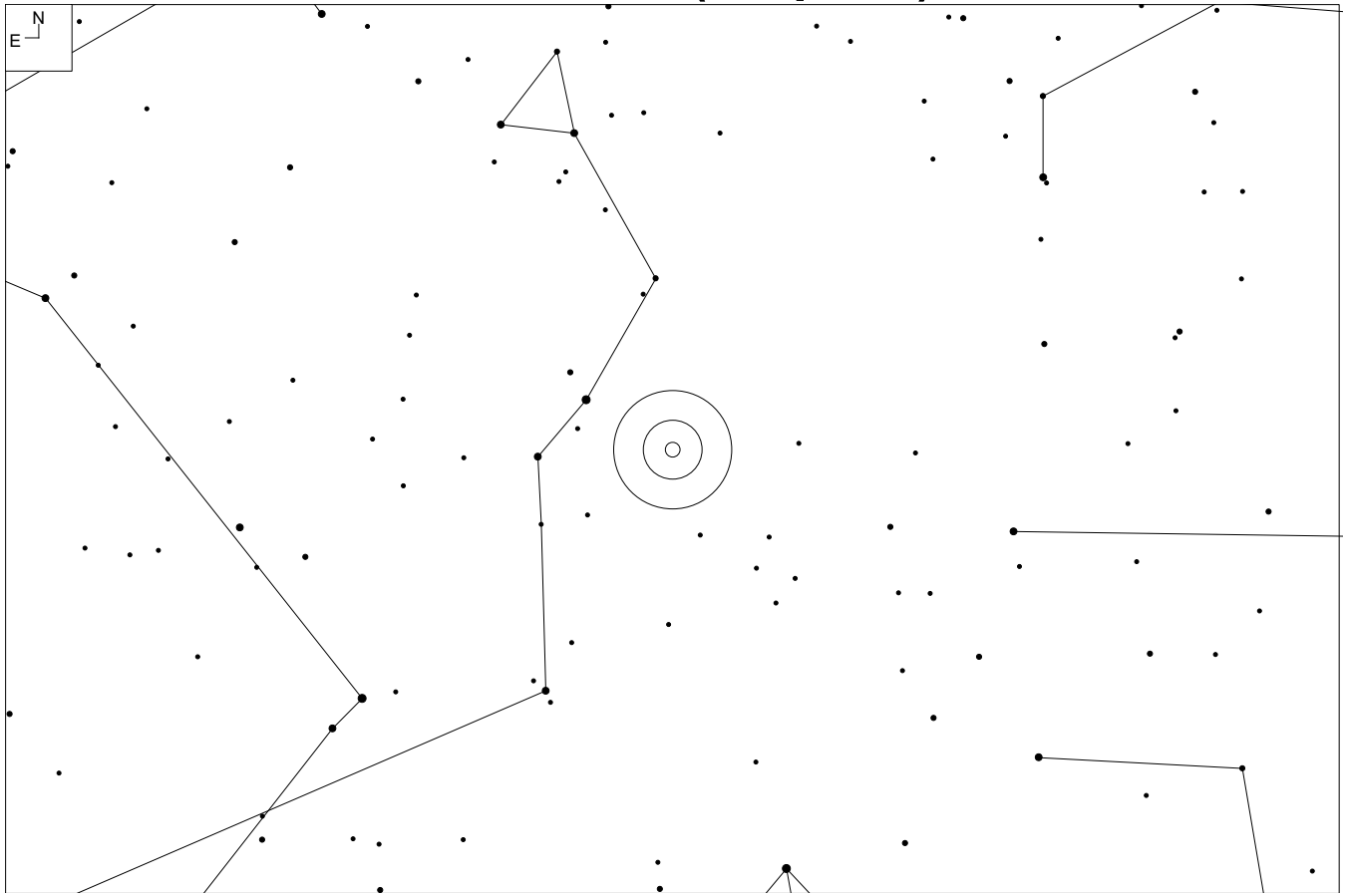
# NGC 5920 (Serpens)



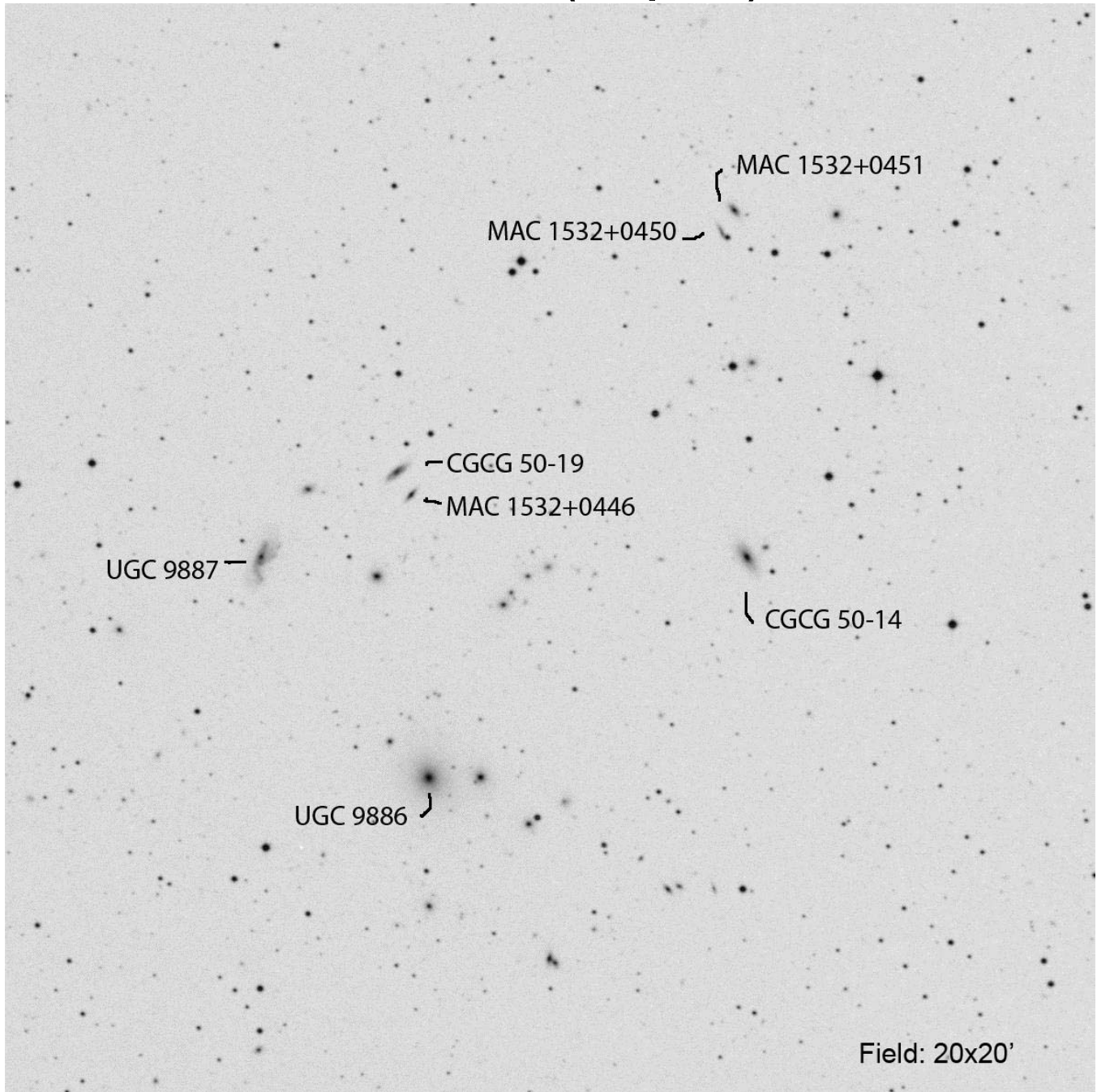
Field: 15 x 15'

Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 3s	15 21 51.9	07 42 32	14.7	5+

# UGC 9887 (Serpens)



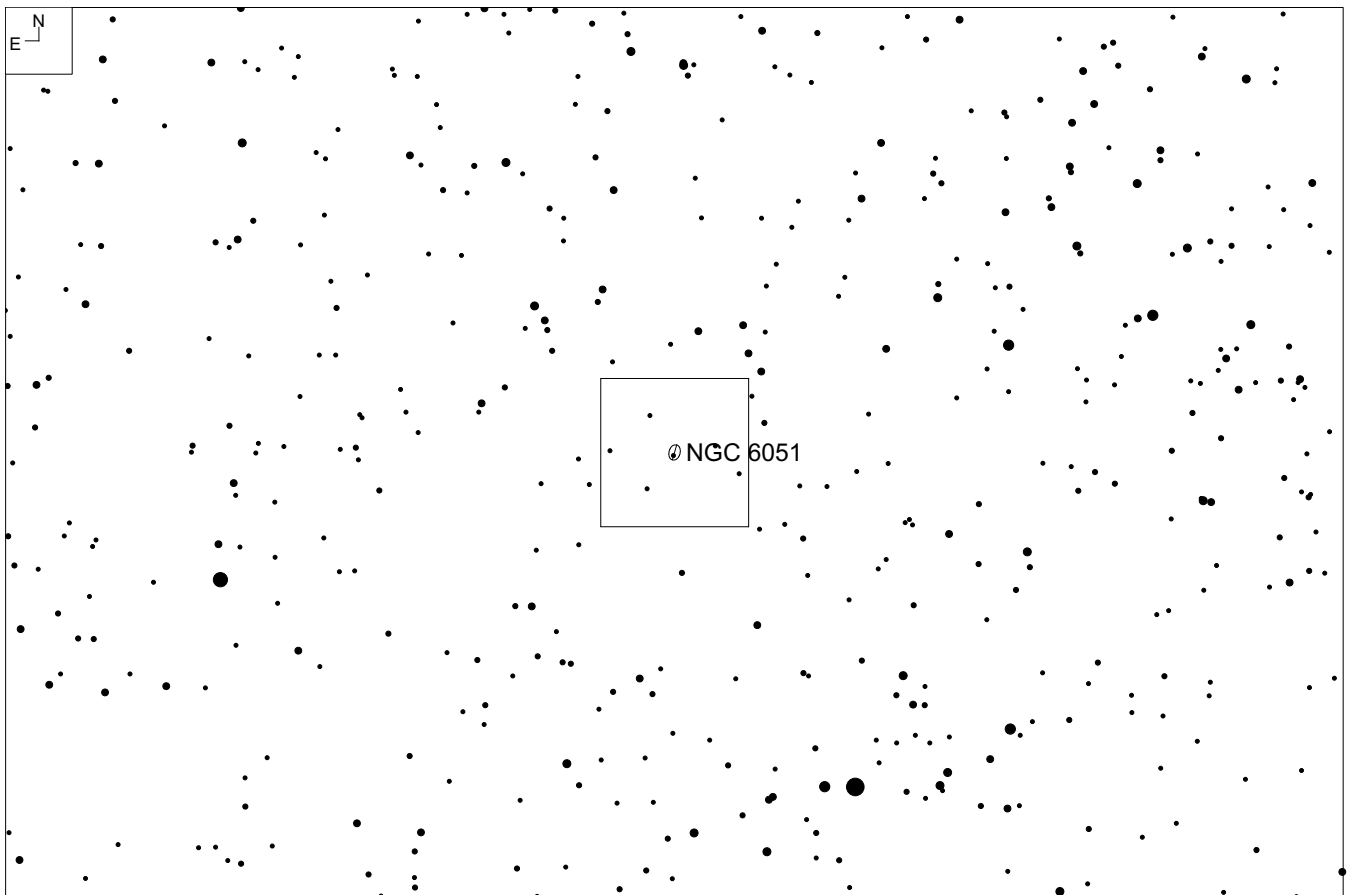
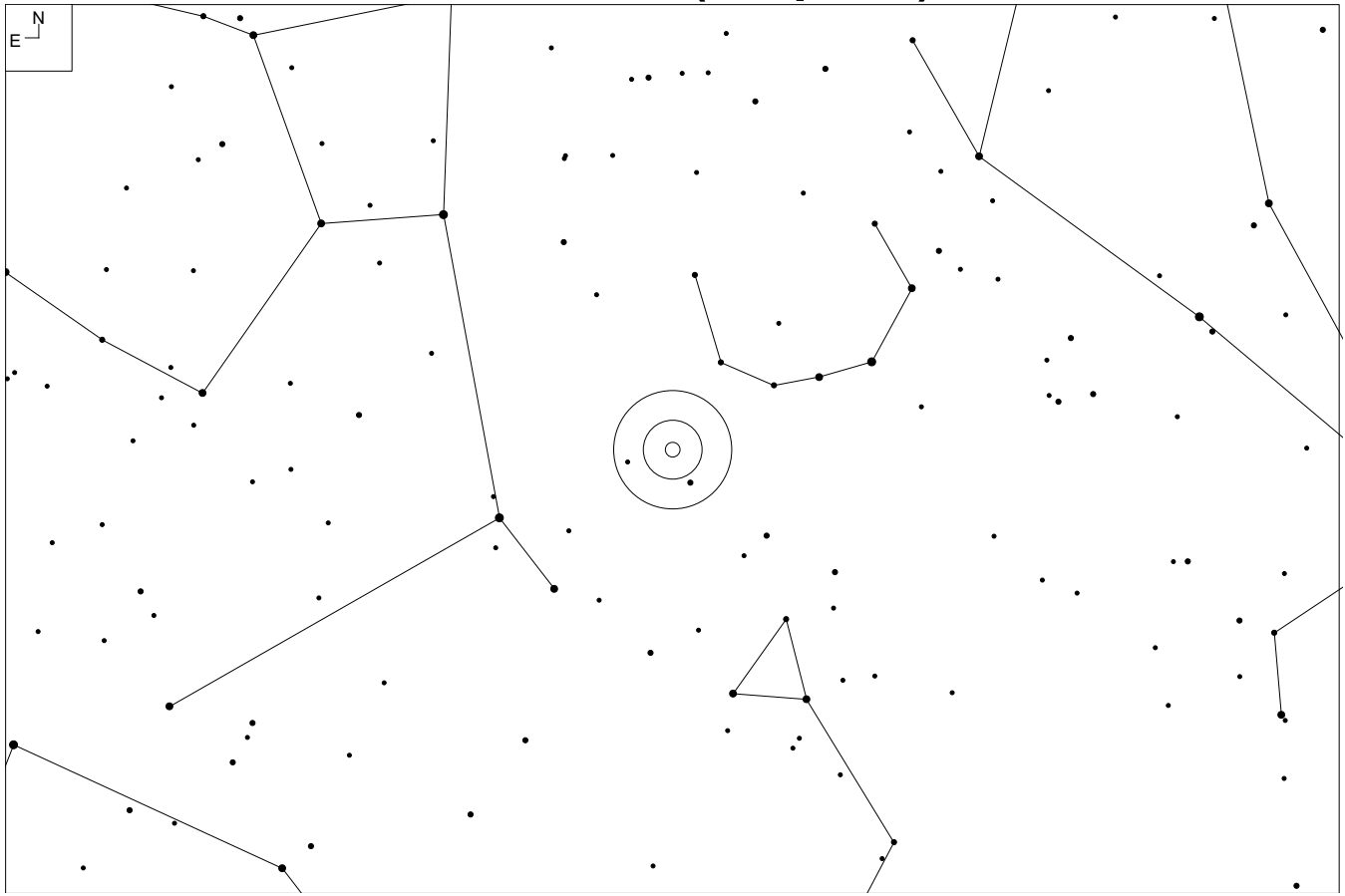
# UGC 9887 (Serpens)



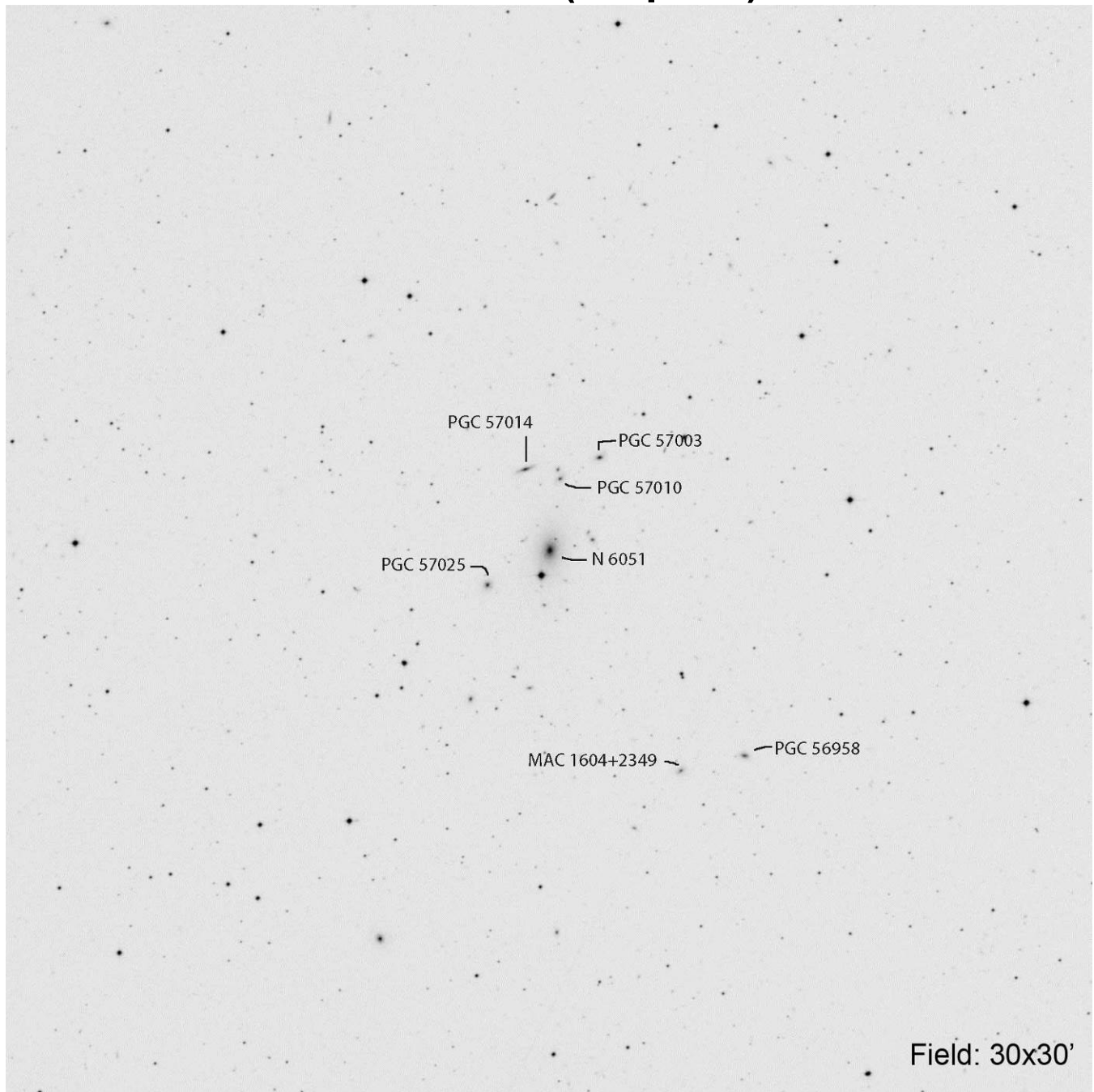
Field: 20x20'

Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
MKW 9	15 32 44.2	+04 44 54	15.0	5+

# NGC 6051 (Serpens)

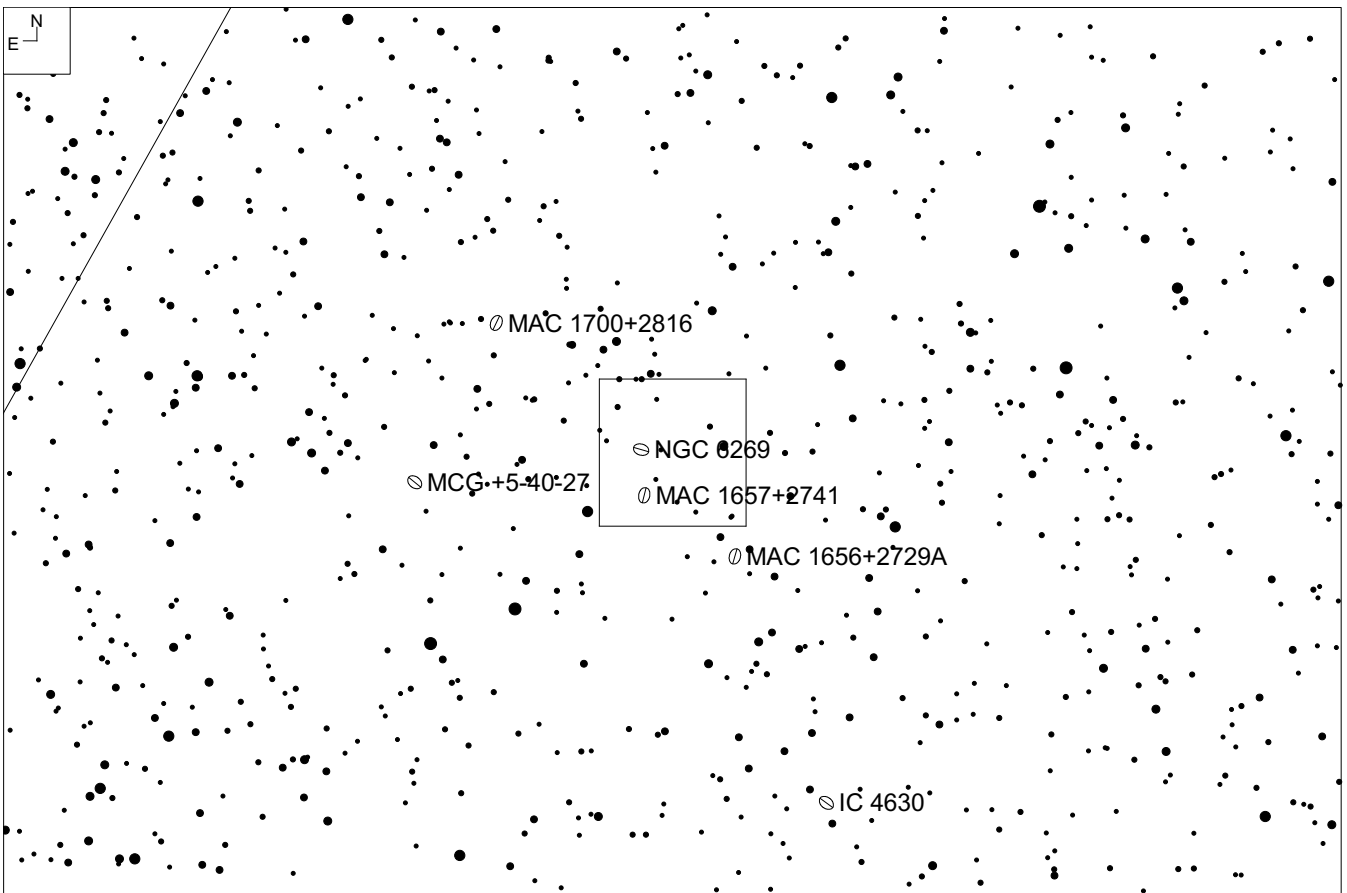
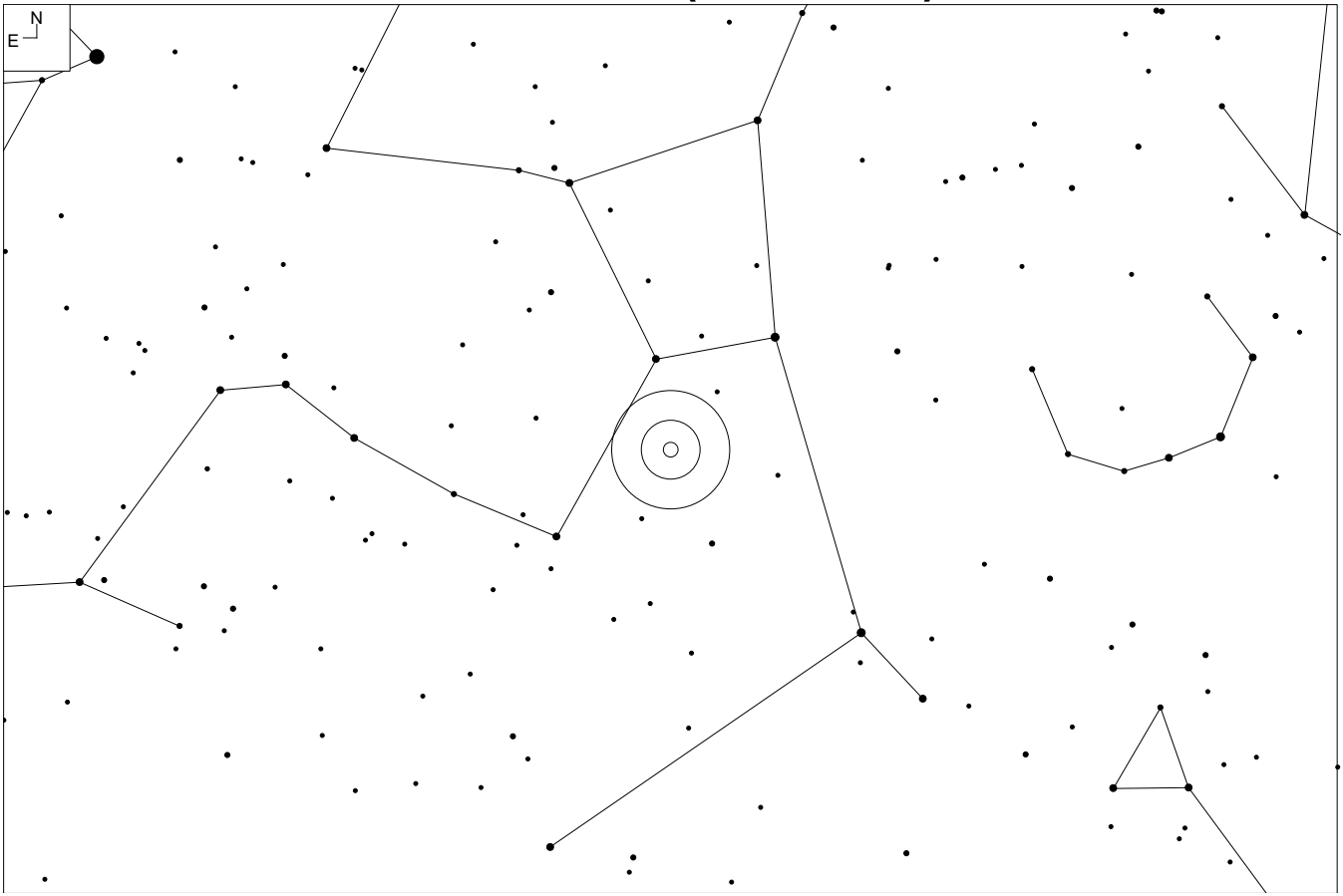


# NGC 6051 (Serpens)

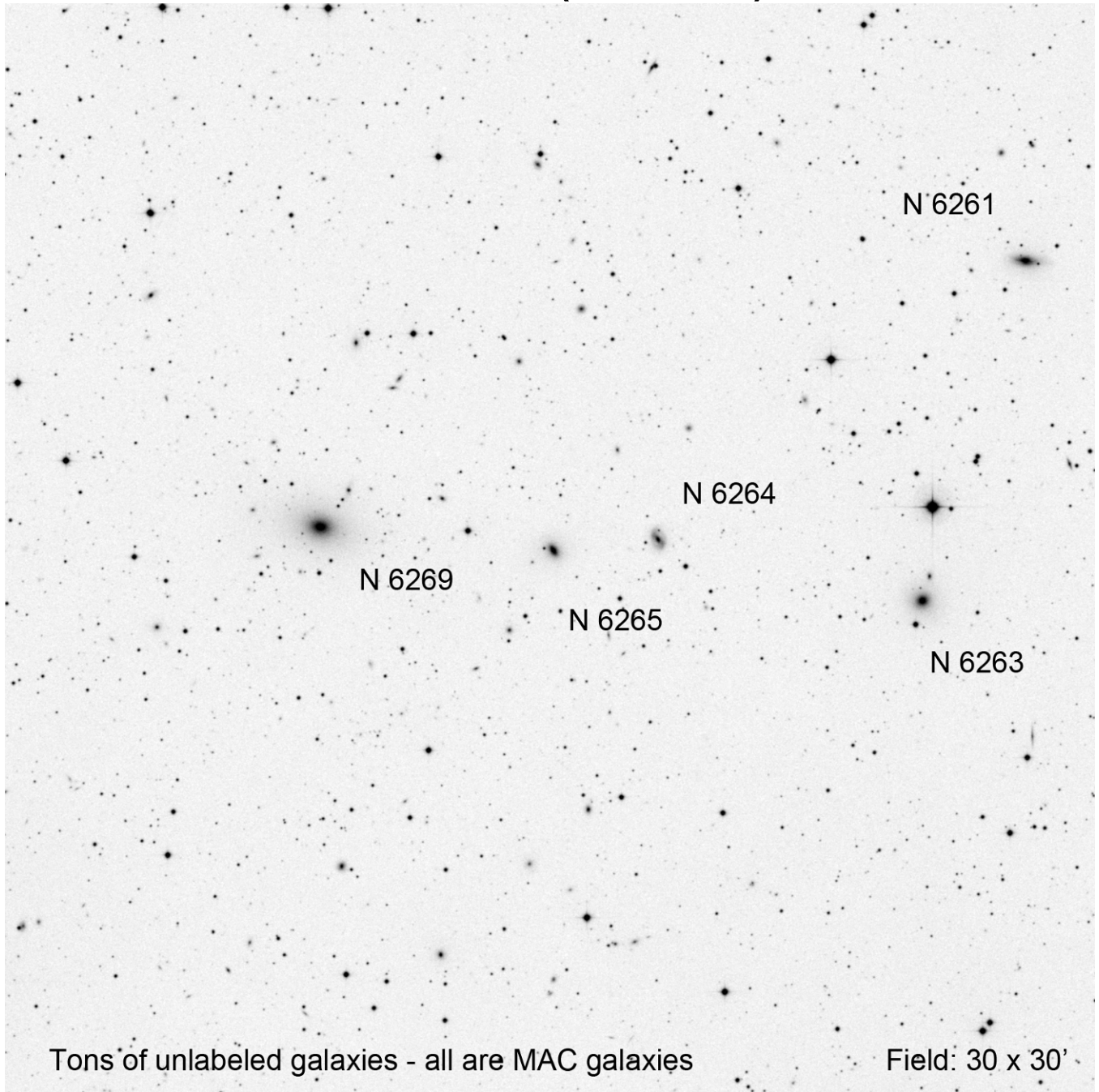


Other ID	RA	Dec	Mag <sub>1</sub>	# of galaxies
AWM 4	16 04 56.7	+23 55 57	14.2	5

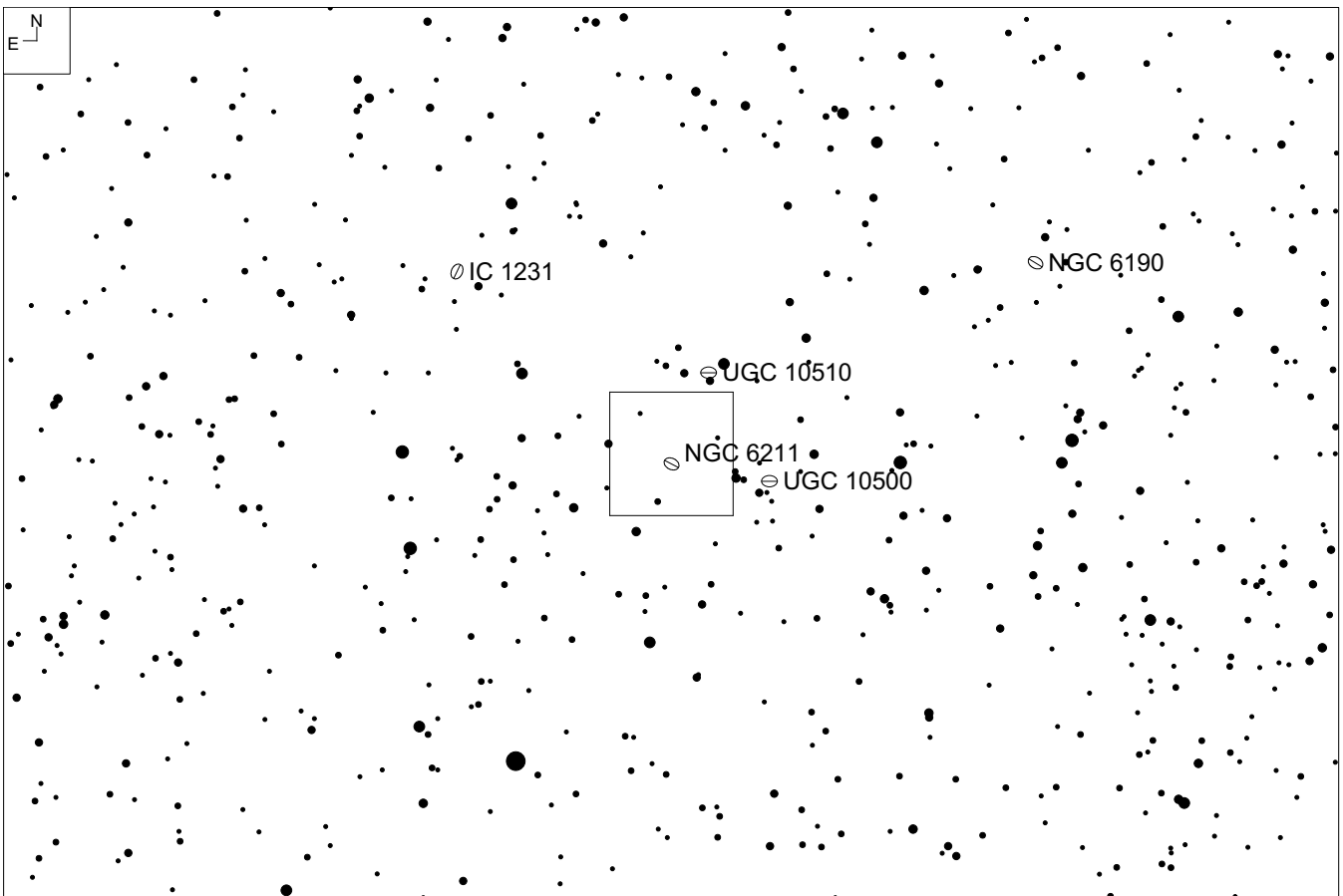
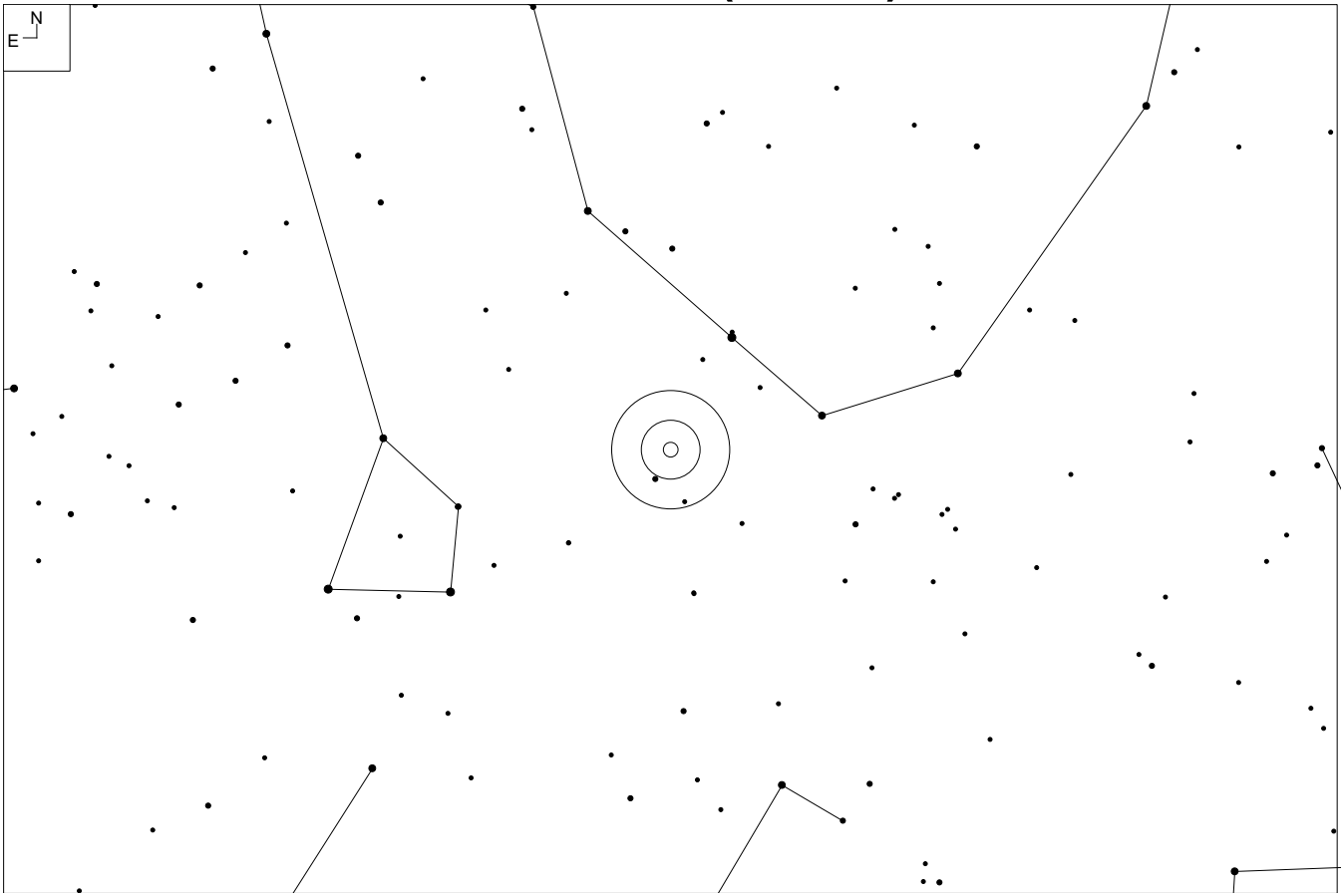
# NGC 6269 (Hercules)



# NGC 6269 (Hercules)

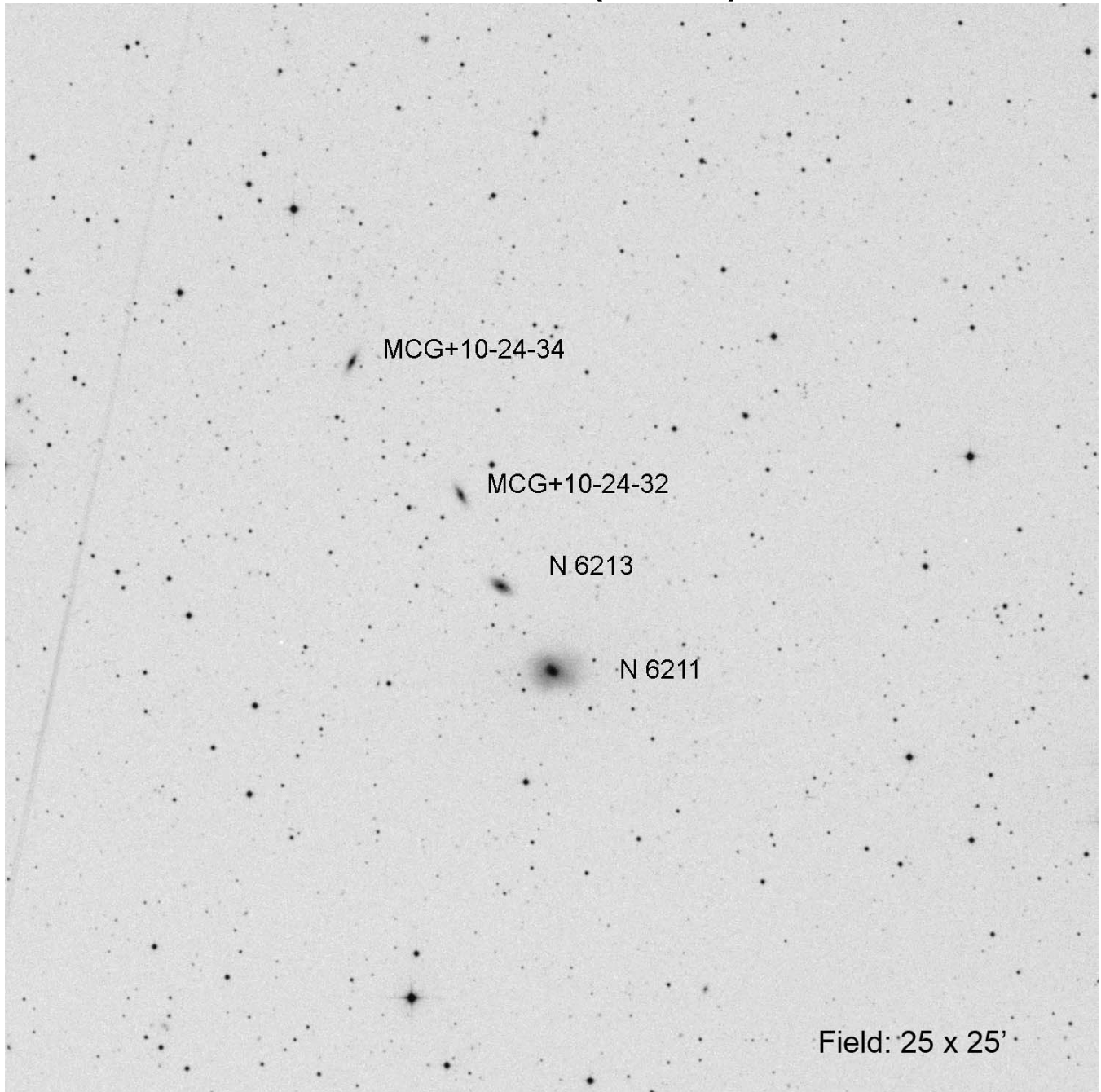


# NGC 6211 (Draco)



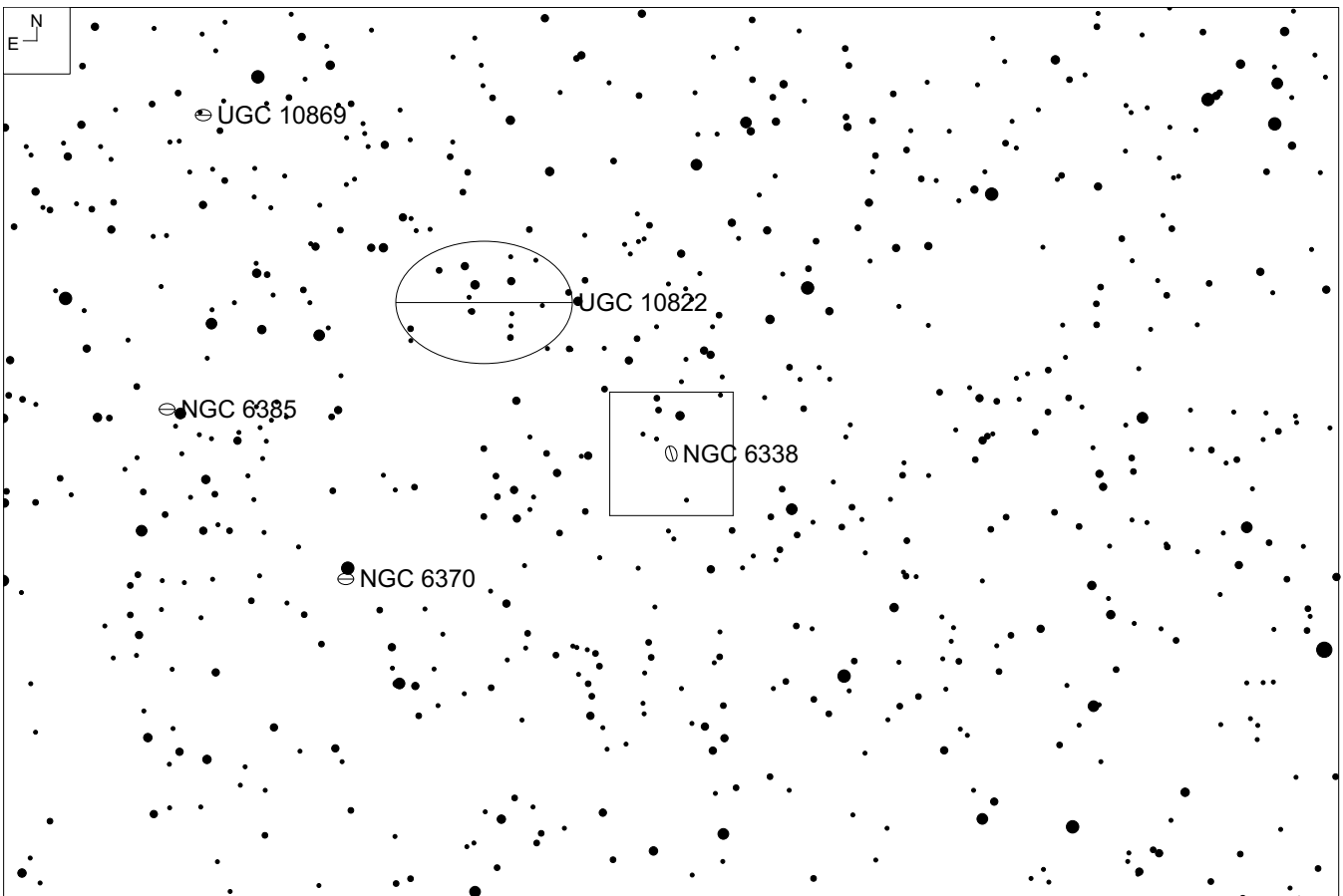
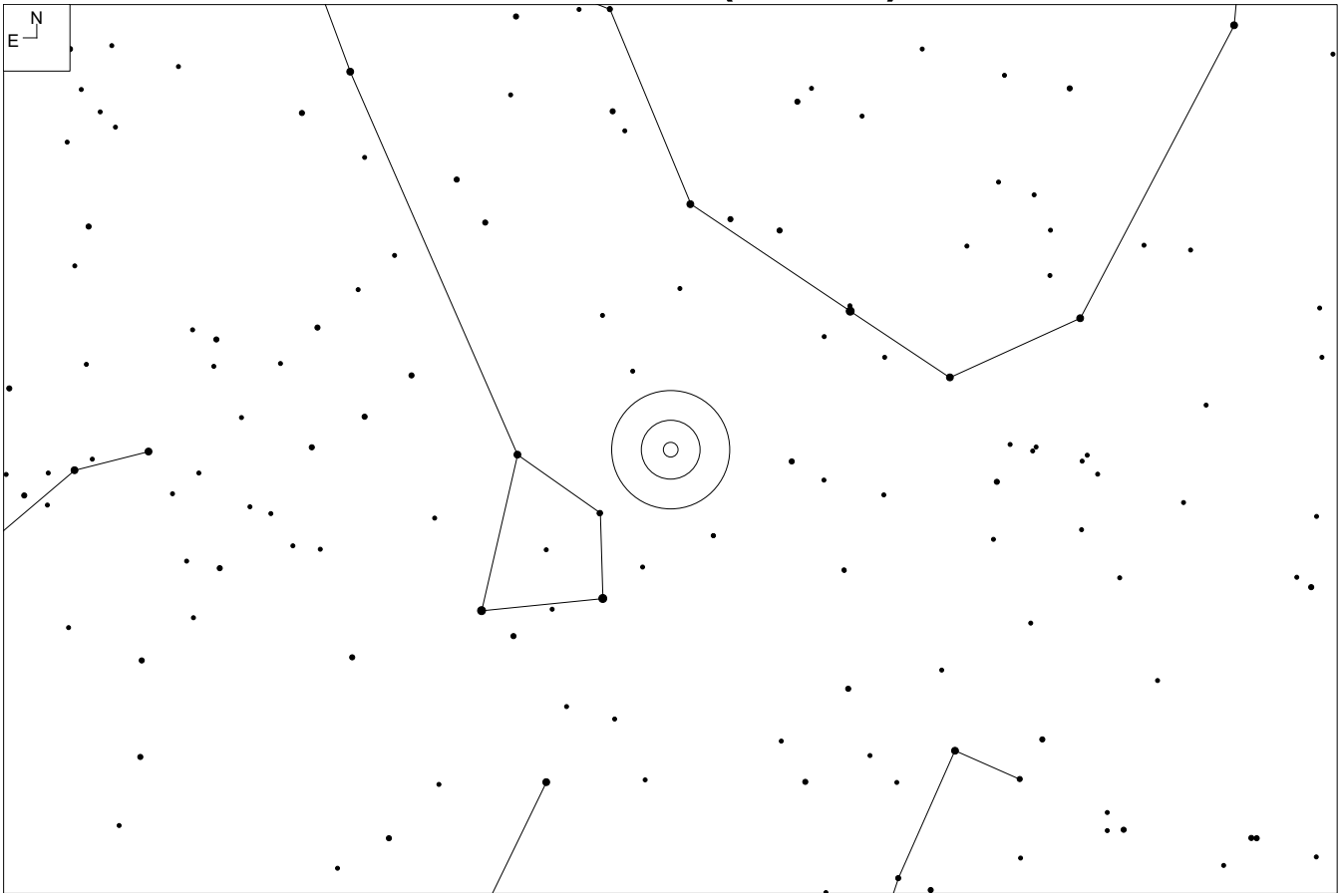


# NGC 6211 (Draco)

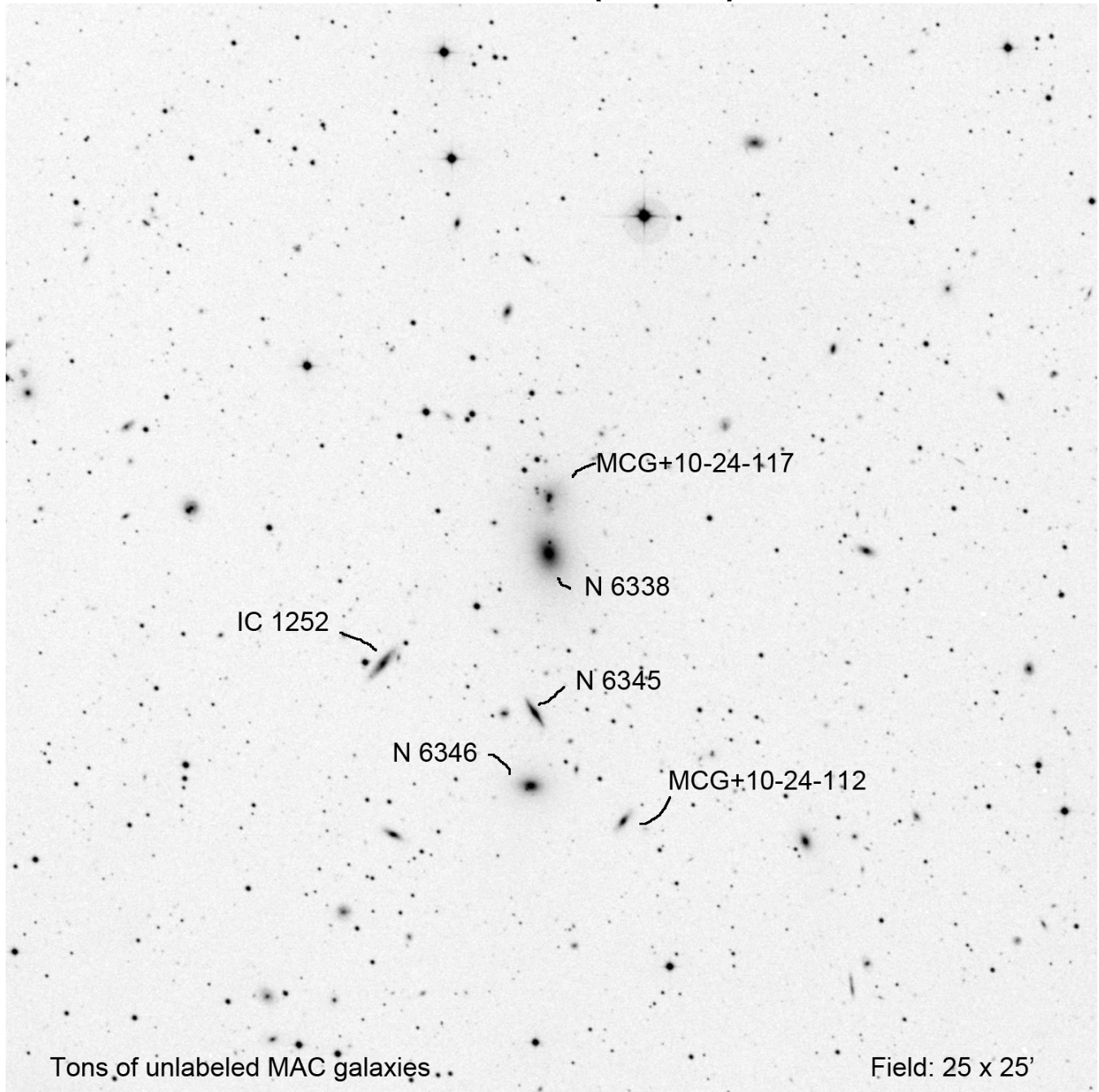


RA	Dec	Mag <sub>1</sub>	# of galaxies
16 41 27.8	+57 47 01	12.6	4

# NGC 6338 (Draco)

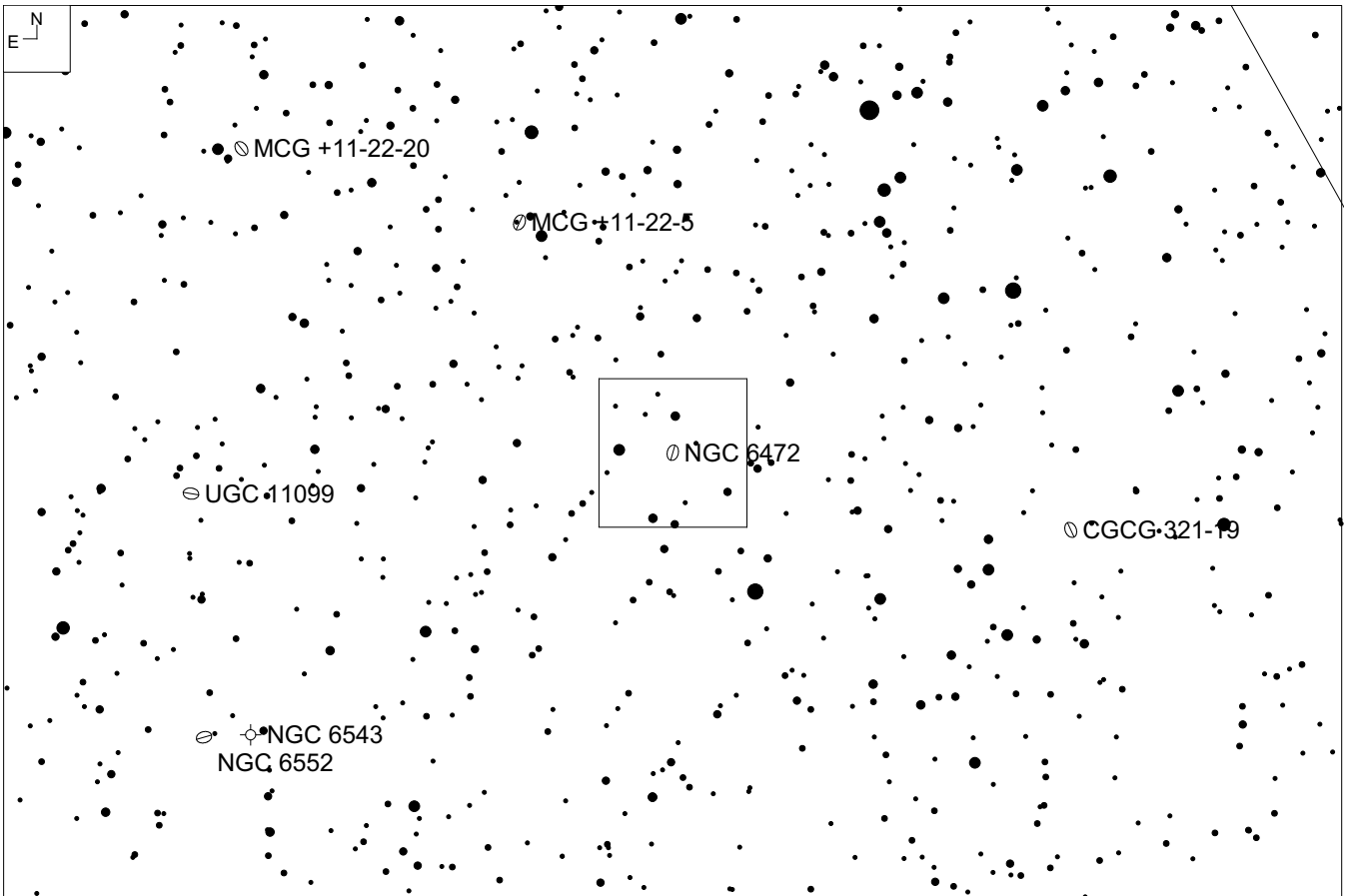
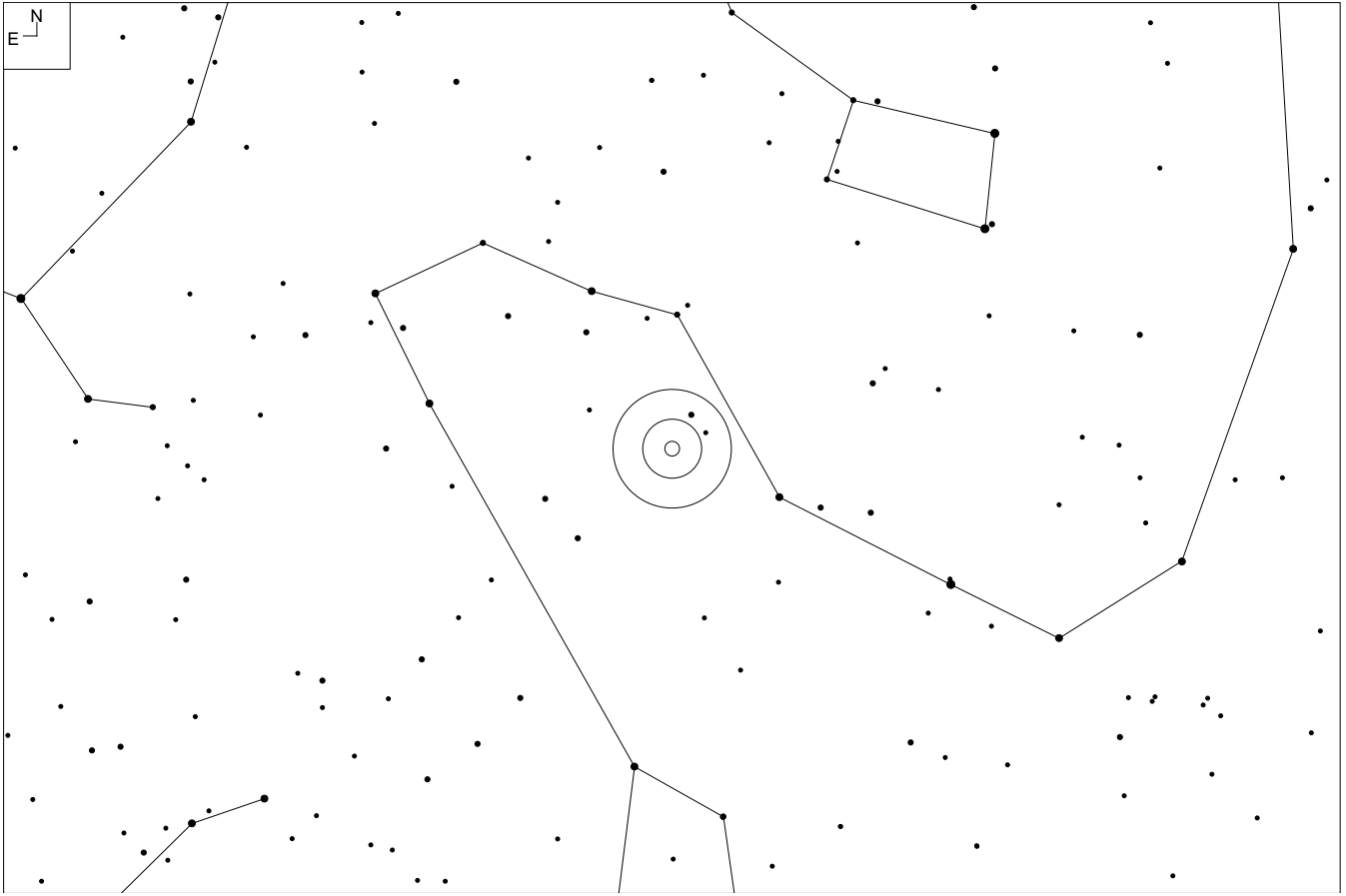


# NGC 6338 (Draco)

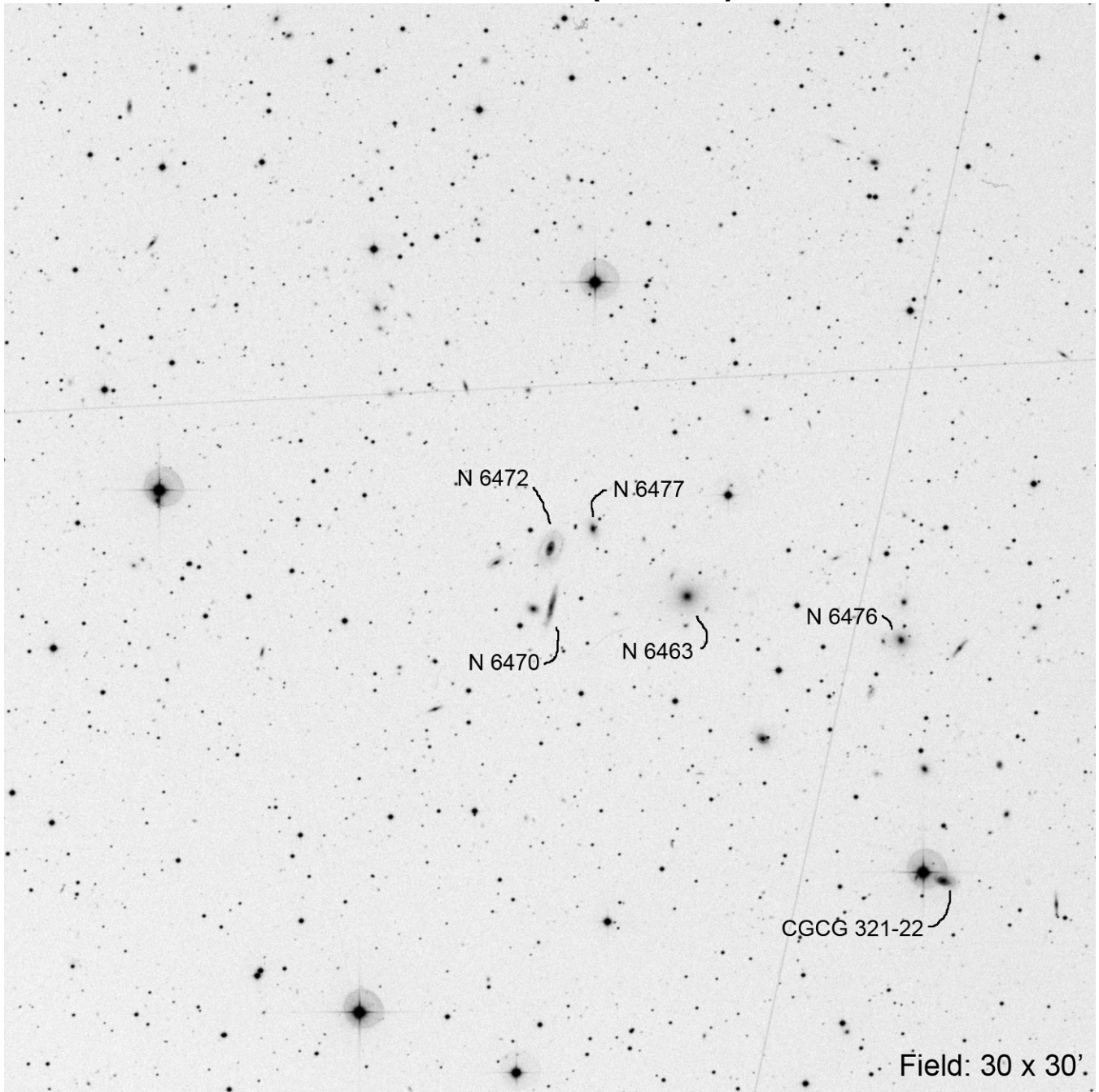


RA	Dec	Mag <sub>1</sub>	# of galaxies
17 15 22.6	+57 24 45	12.3	7

# NGC 6472 (Draco)

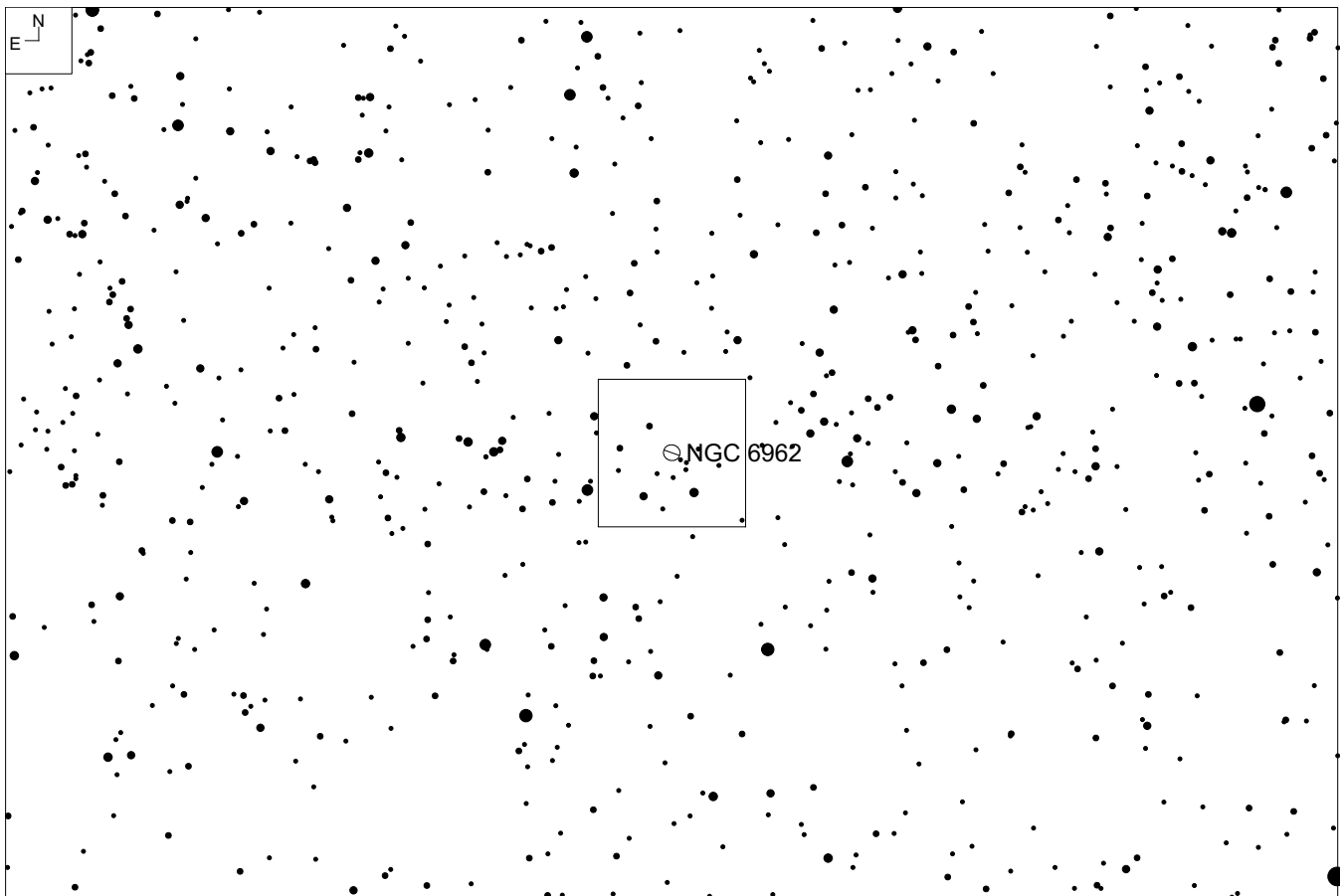
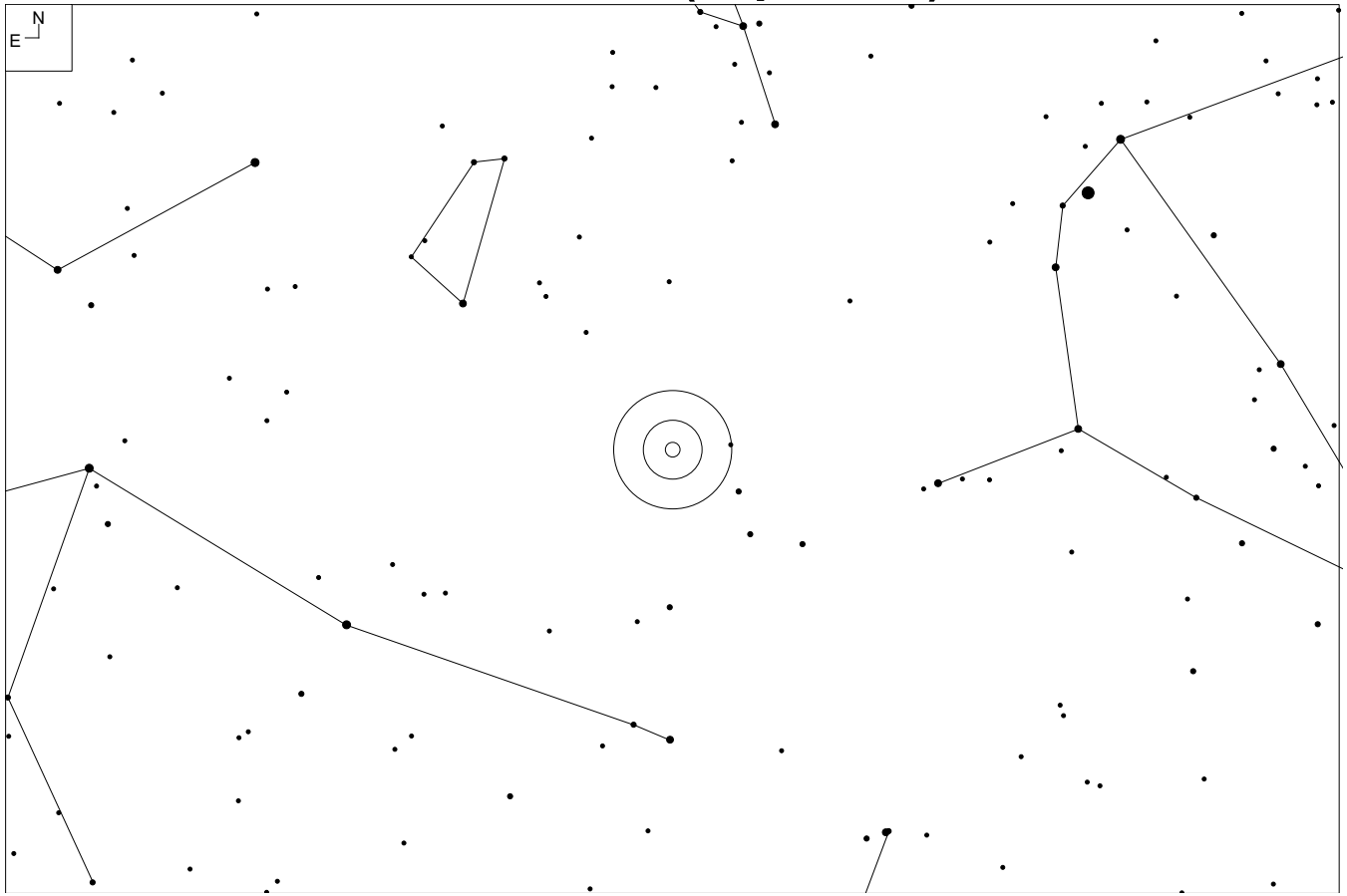


# NGC 6472 (Draco)

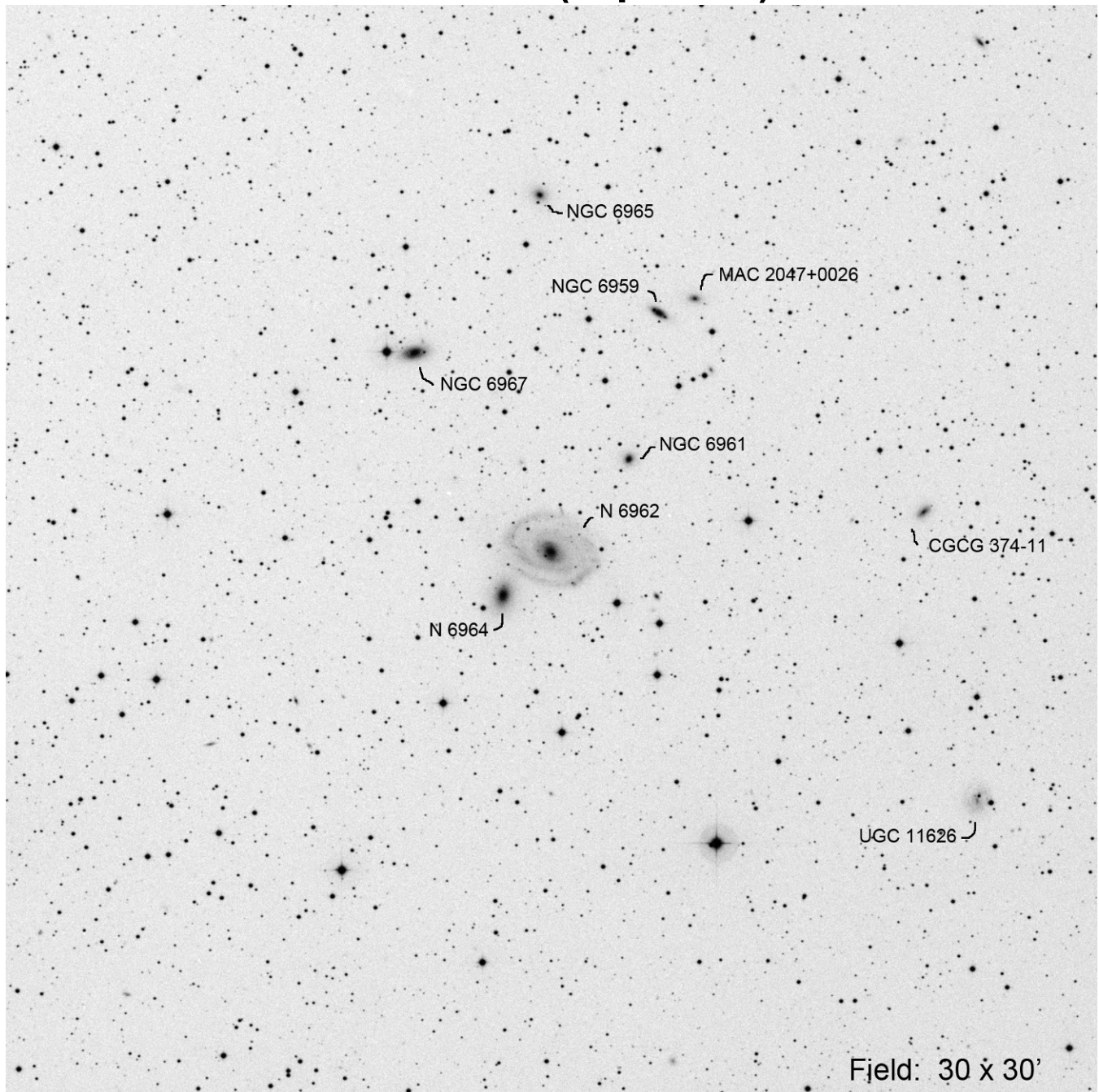


RA	Dec	Mag <sub>1</sub>	# of galaxies
17 44 14.9	+67 37 10	14.2	6

# NGC 6962 (Aquarius)

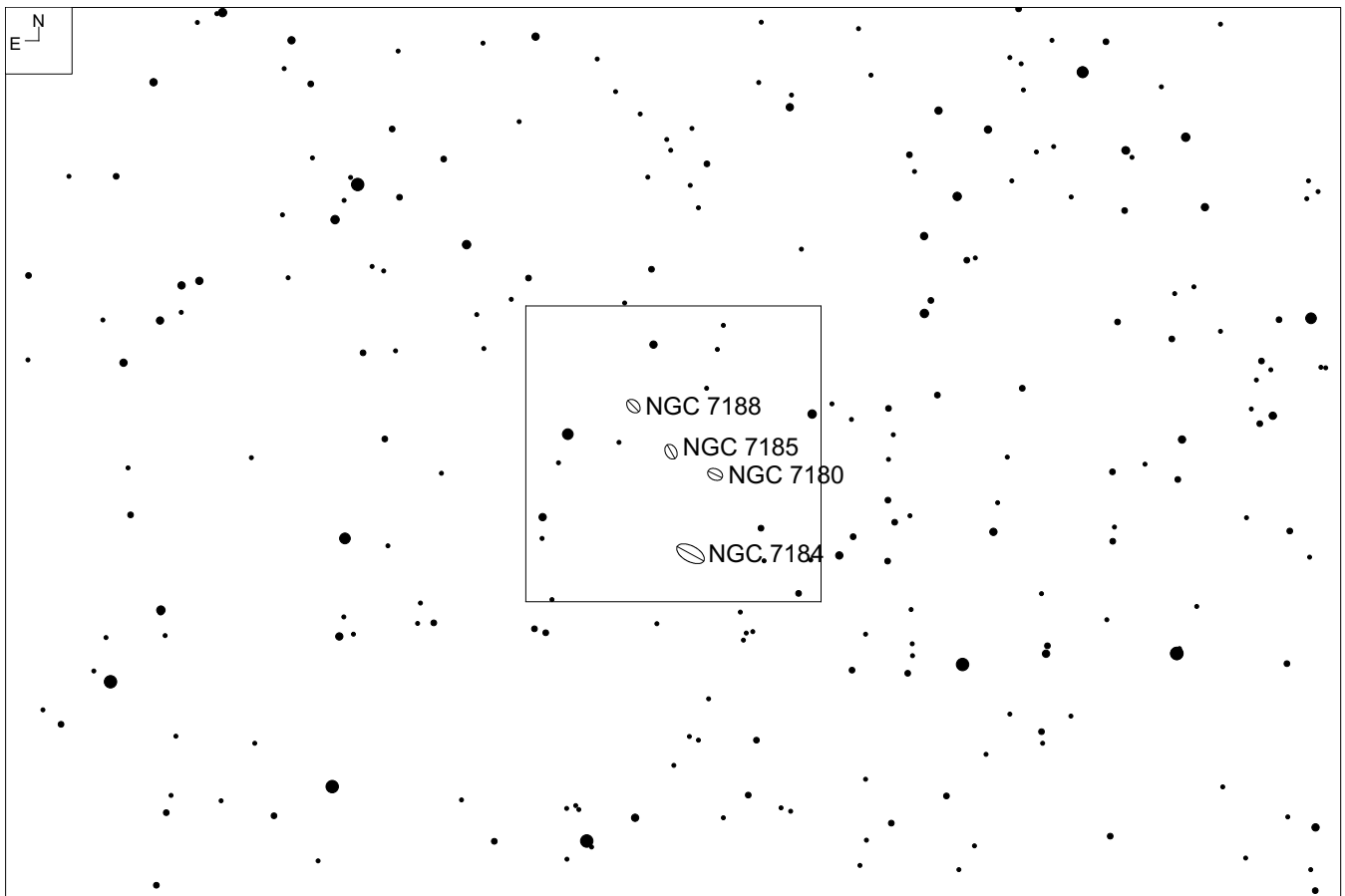
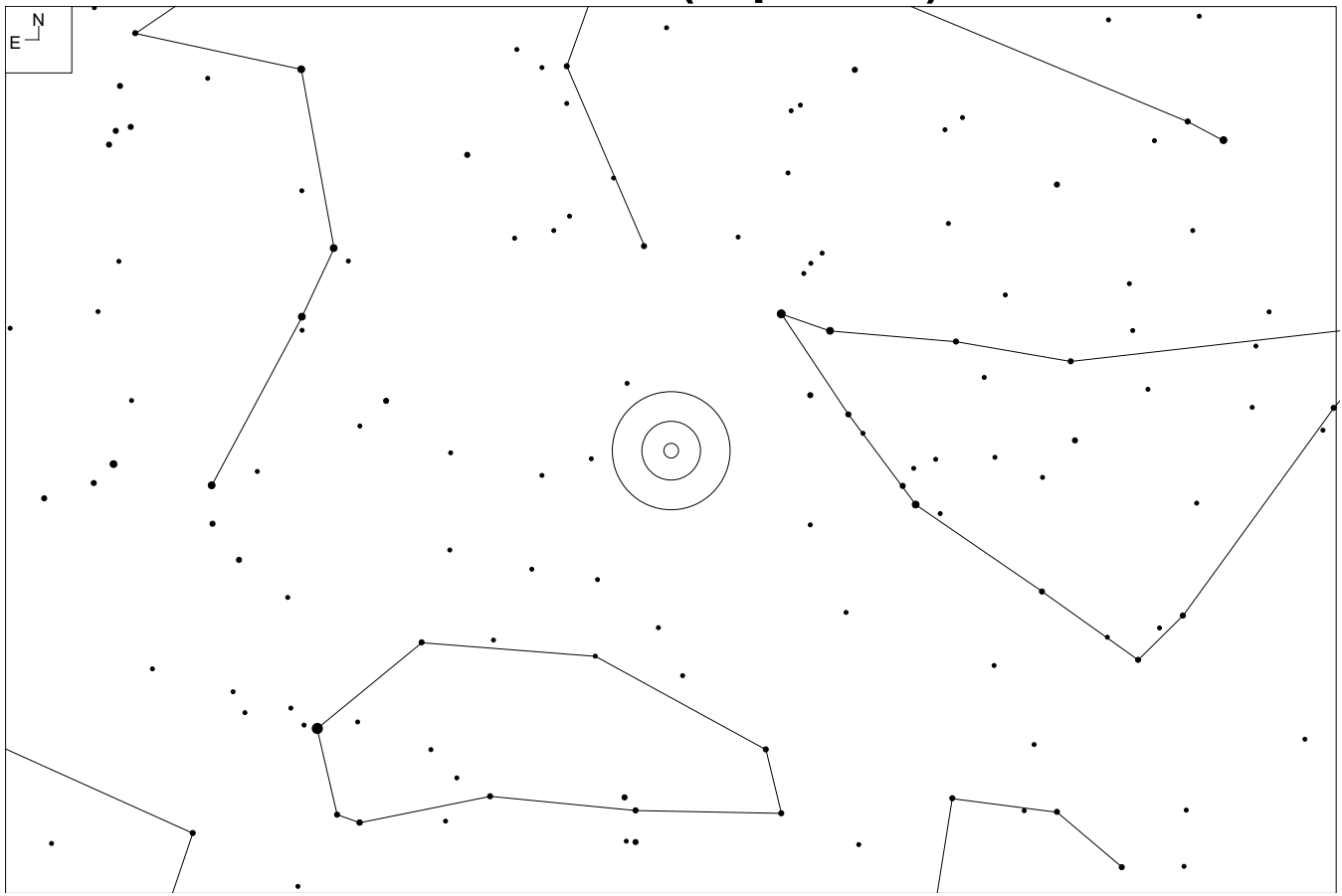


# NGC 6962 (Aquarius)



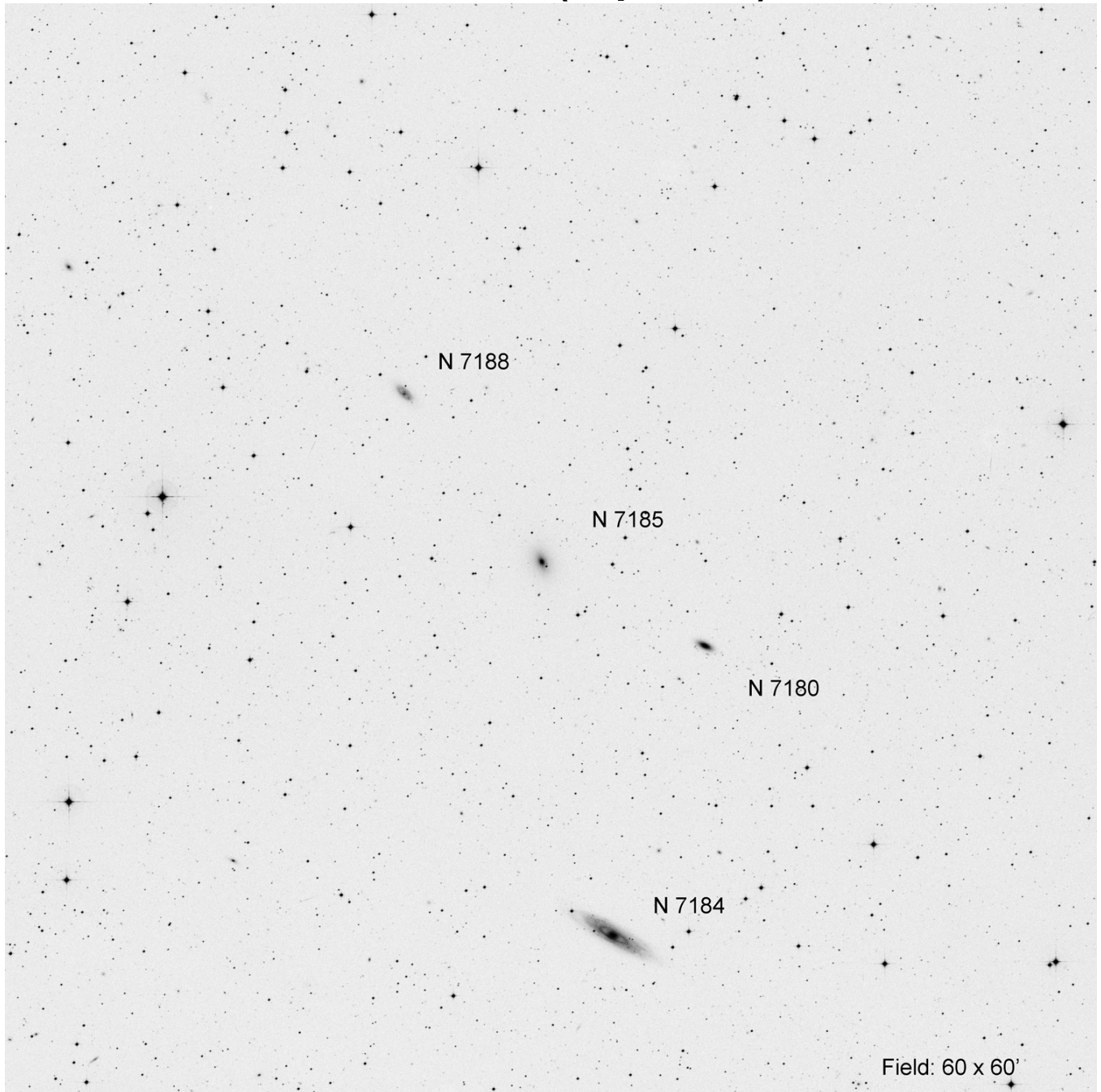
RA	Dec	Mag <sub>1</sub>	# of galaxies
20 47 19.0	+00 19 17	12.1	13

# NGC 7184 (Aquarius)



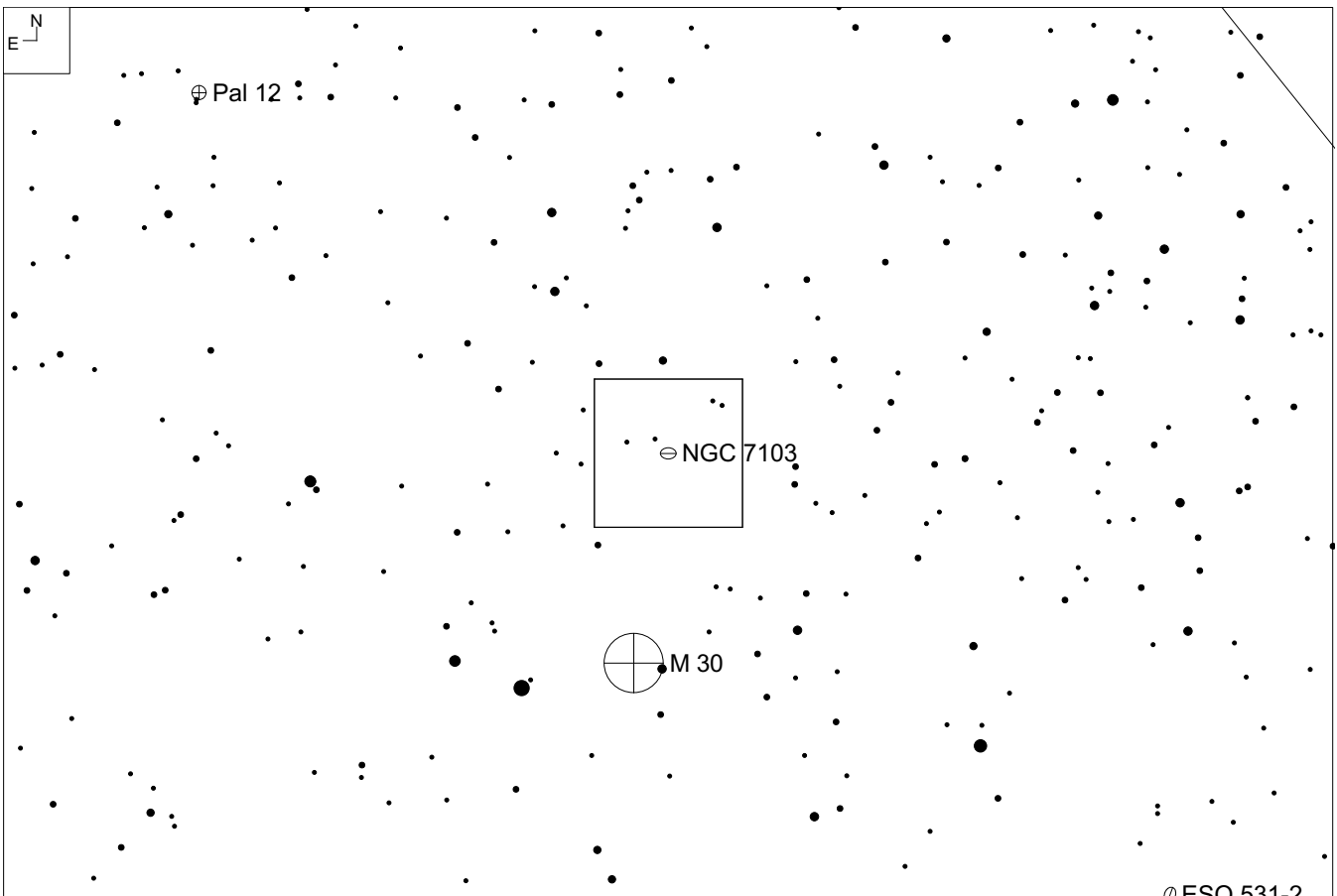
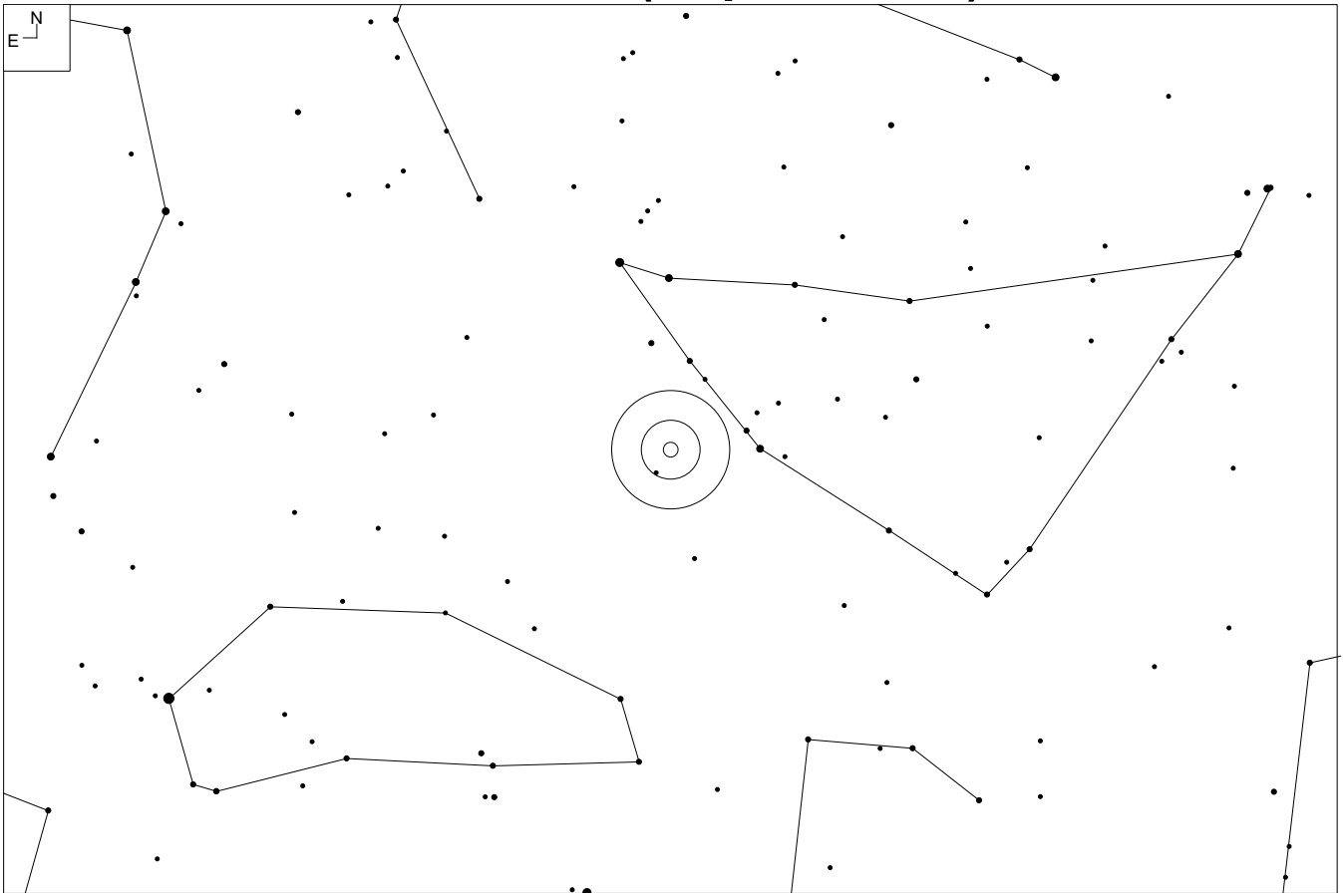


# NGC 7184 (Aquarius)



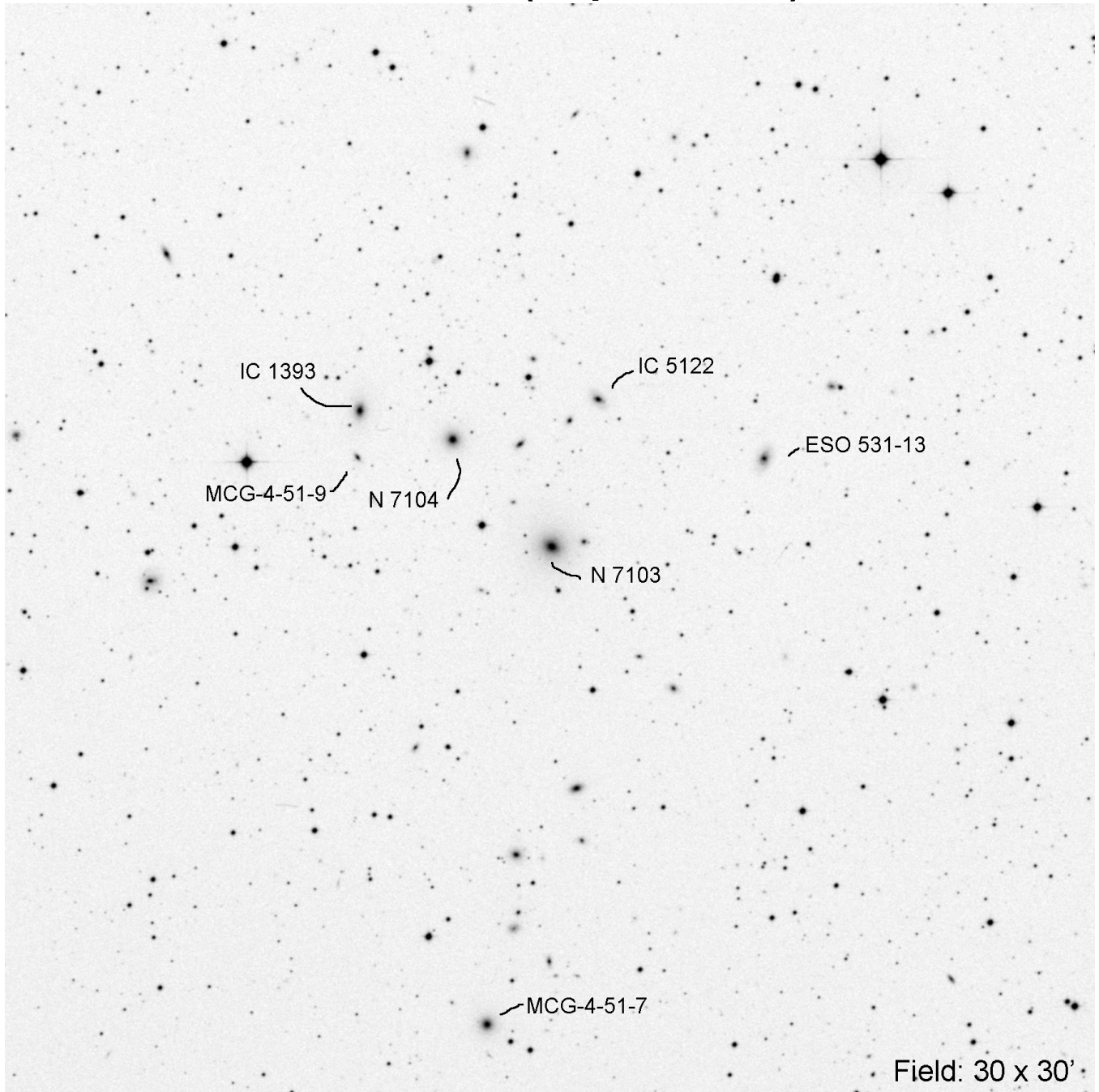
RA	Dec	Mag <sub>1</sub>	# of galaxies
22 02 39.7	-20 48 50	11.2	4

# NGC 7103 (Capricornus)



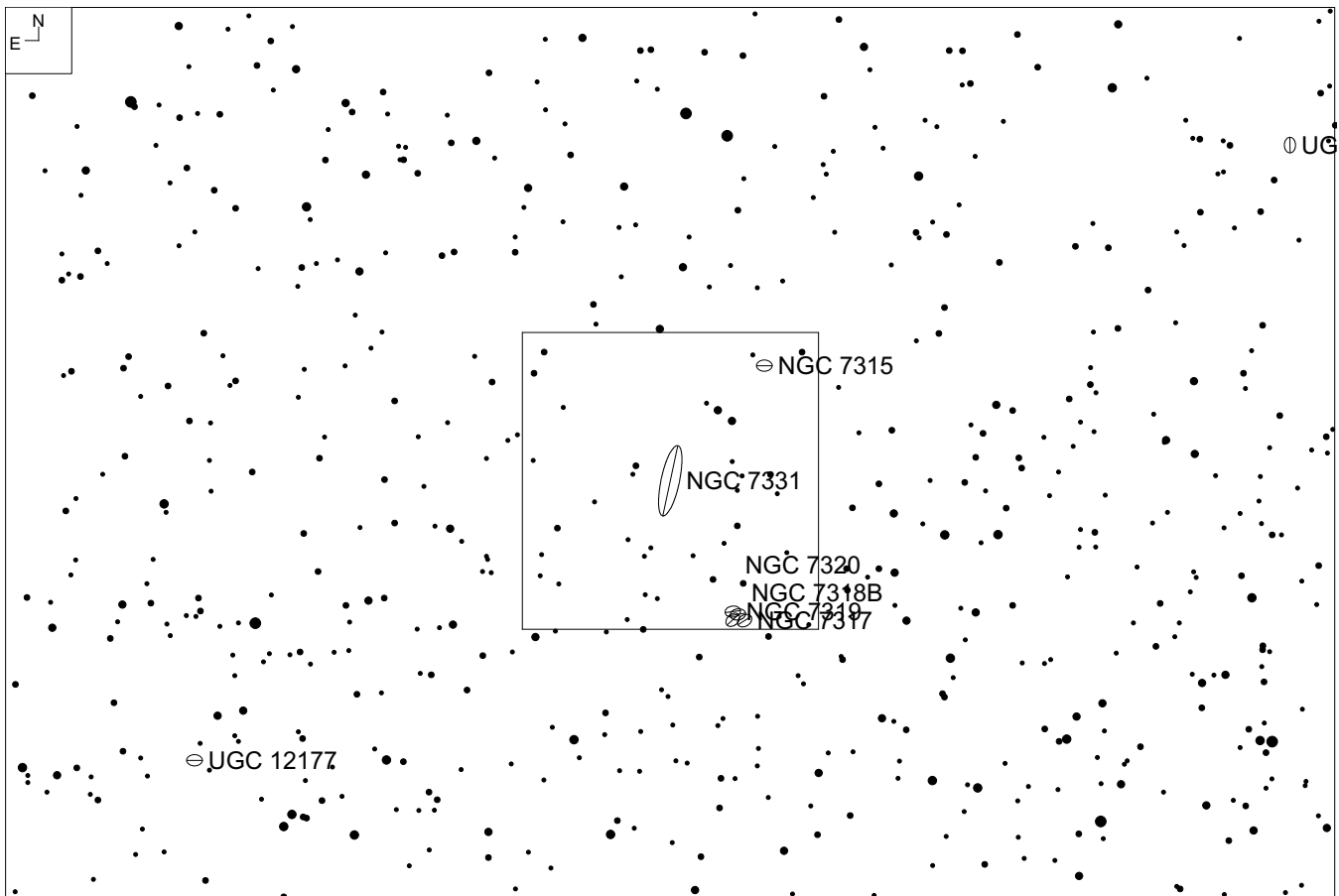
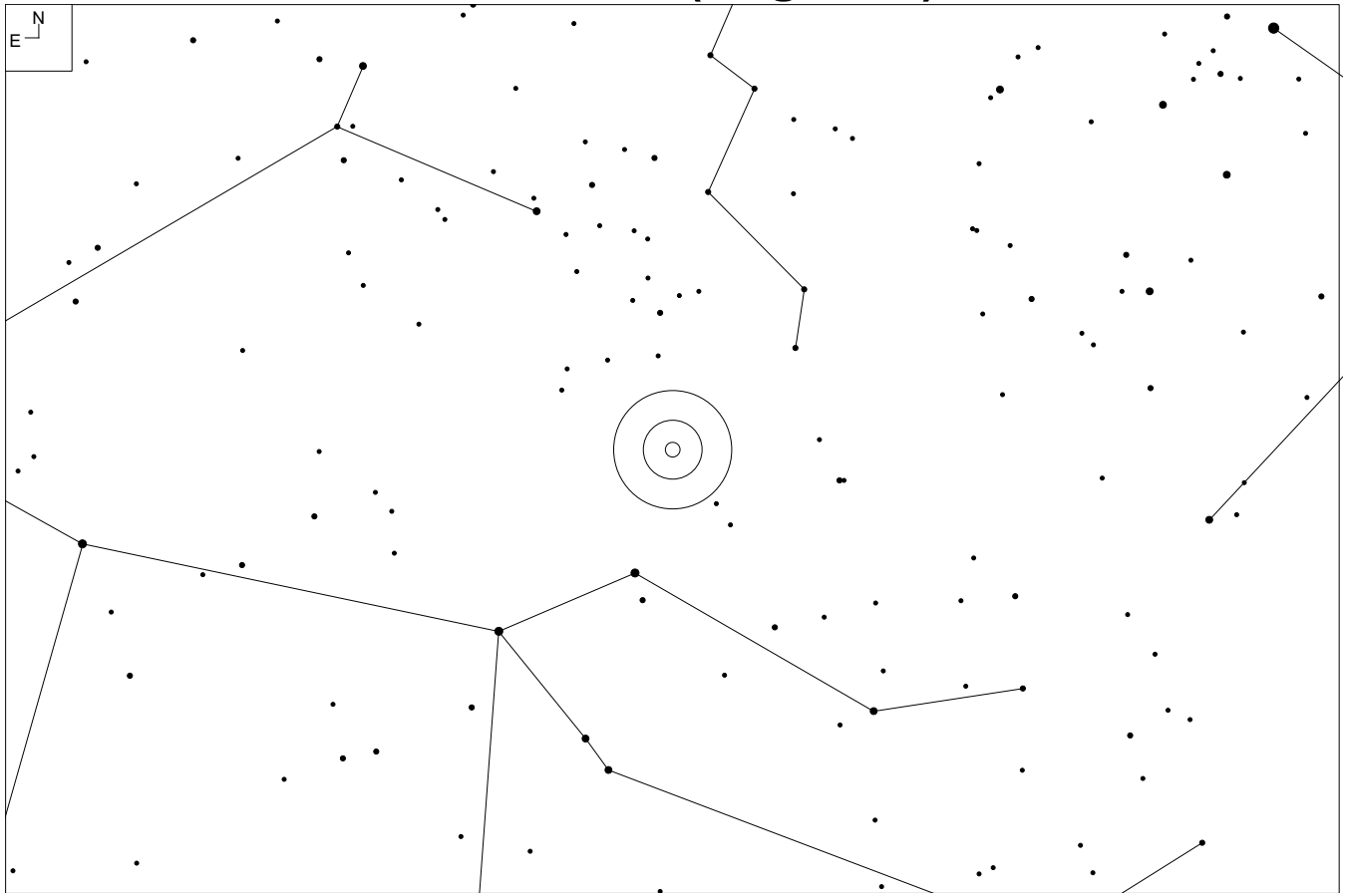
m ESO 531-2

# NGC 7103 (Capricornus)

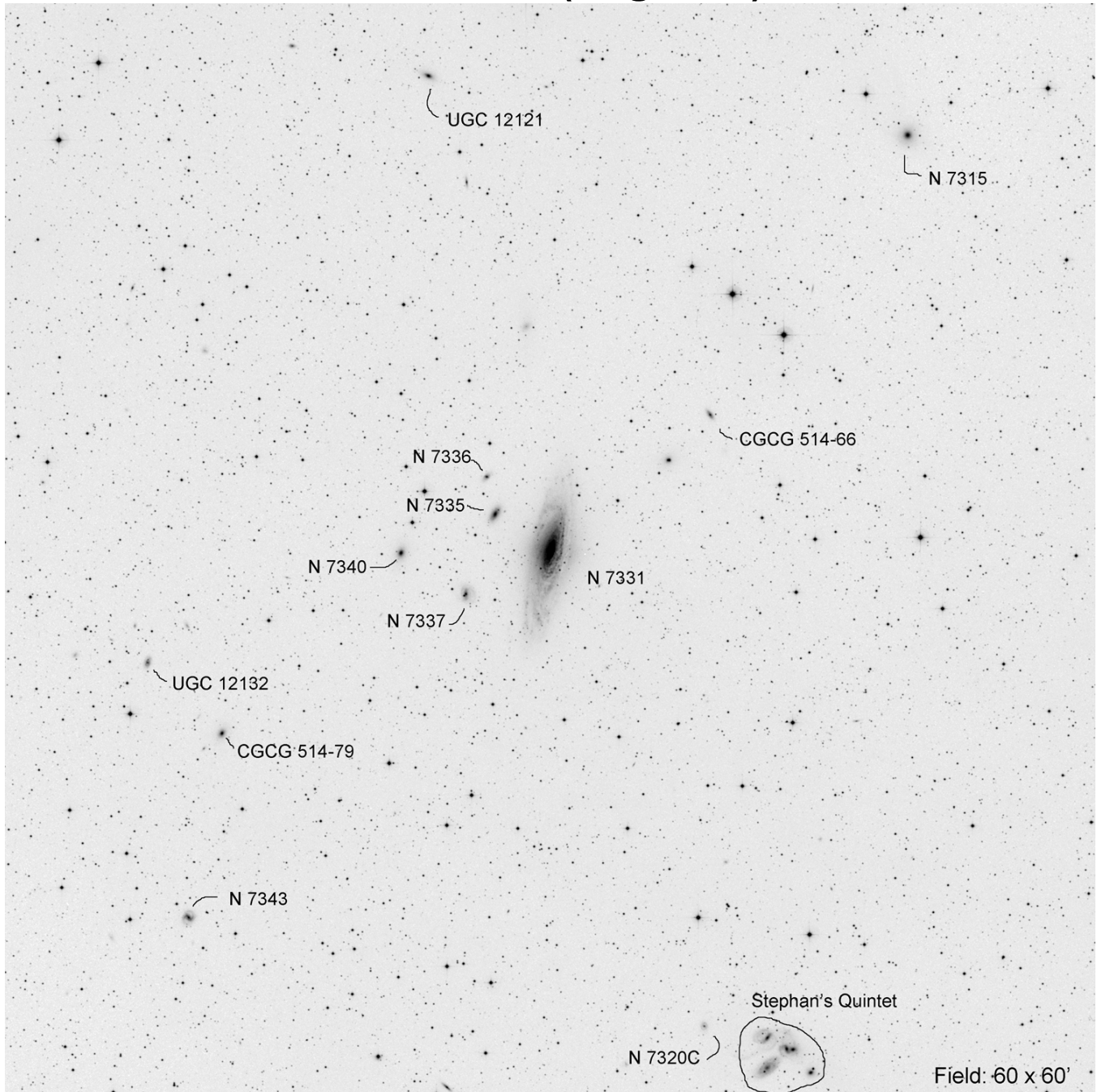


RA	Dec	Mag <sub>1</sub>	# of galaxies
21 39 51.4	-22 28 25	12.6	7+

# NGC 7331 (Pegasus)

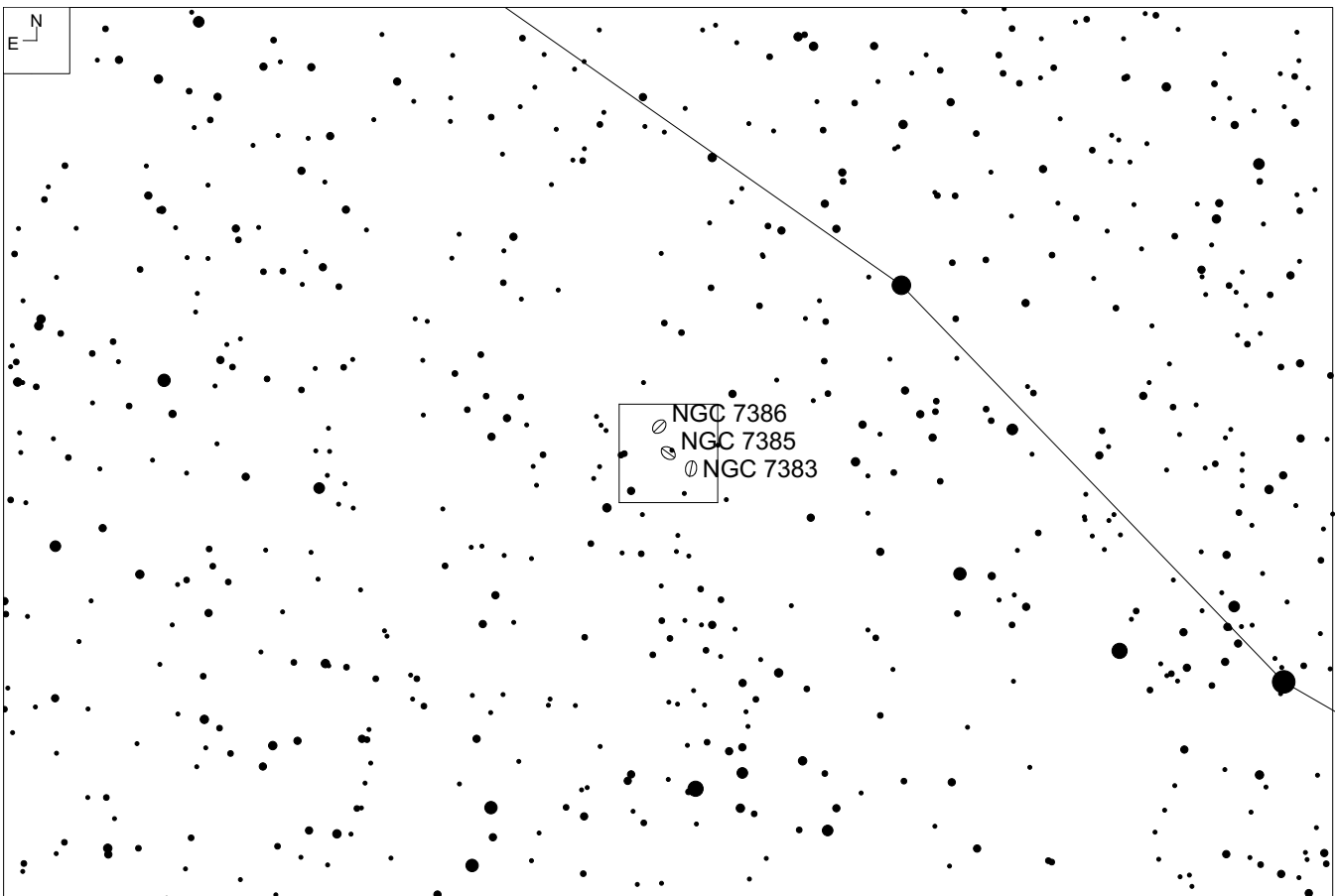
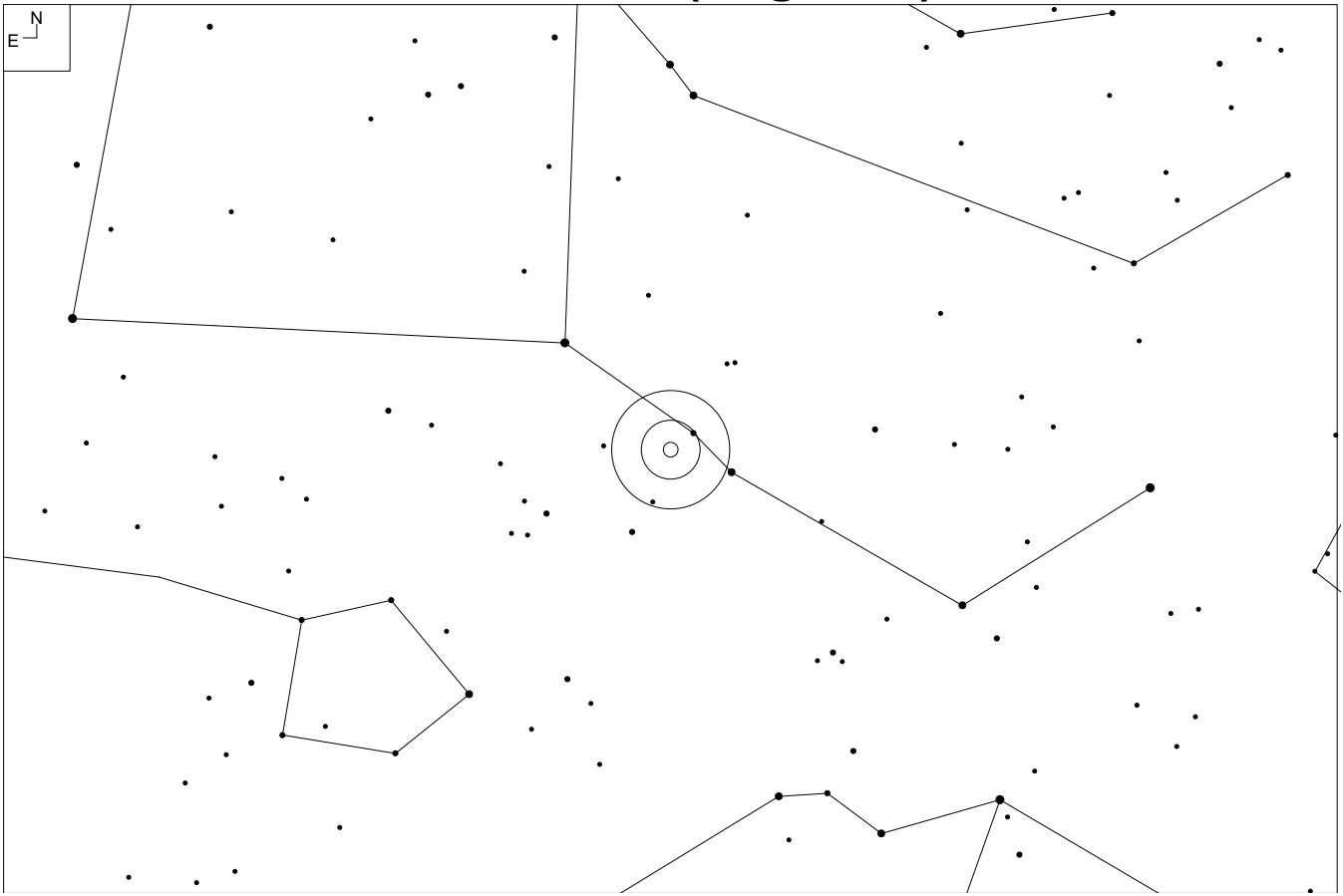


# NGC 7331 (Pegasus)

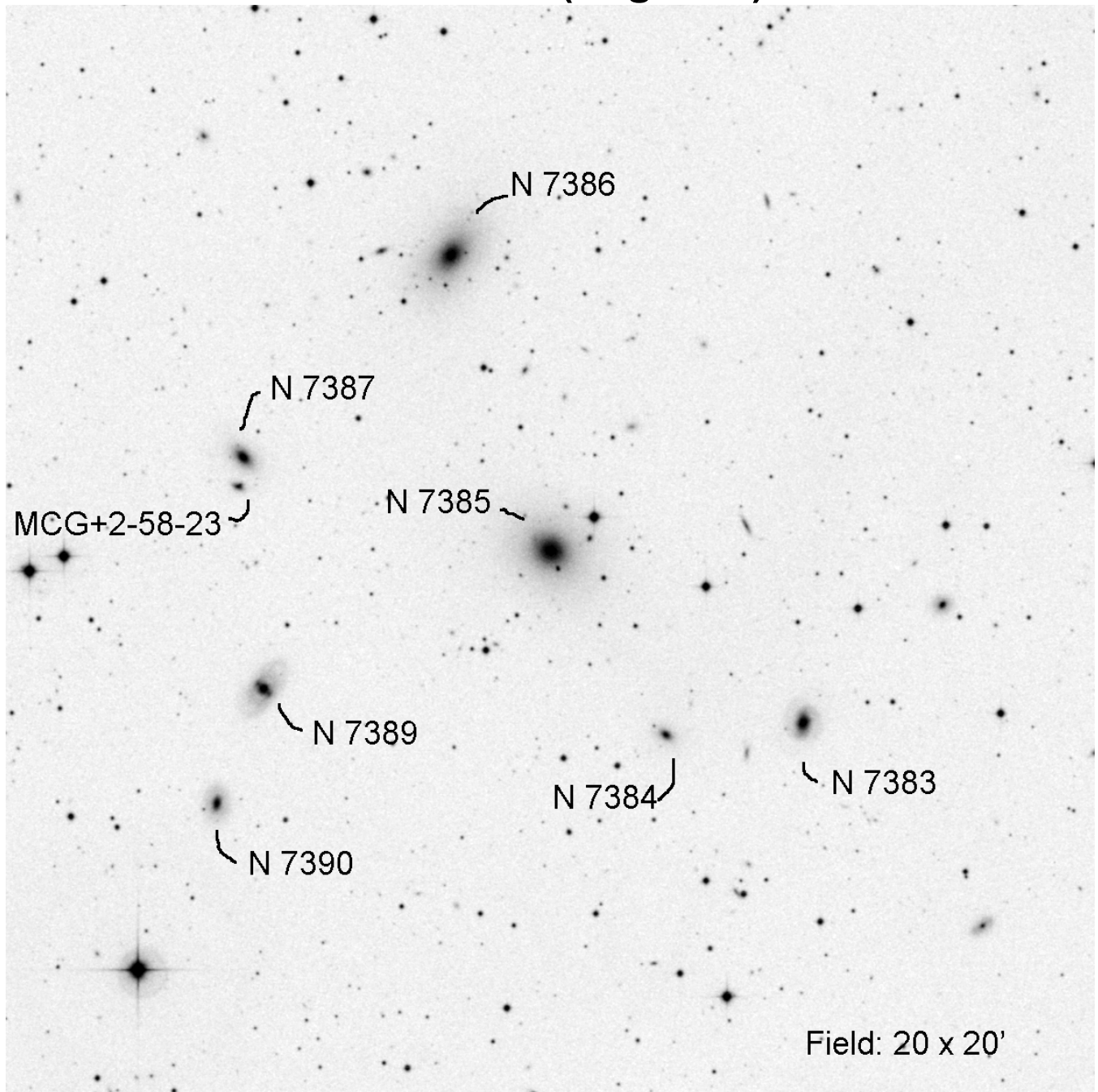


RA	Dec	Mag <sub>1</sub>	# of galaxies
22 37 04.5	+34 25 00	9.5	9

# NGC 7385 (Pegasus)

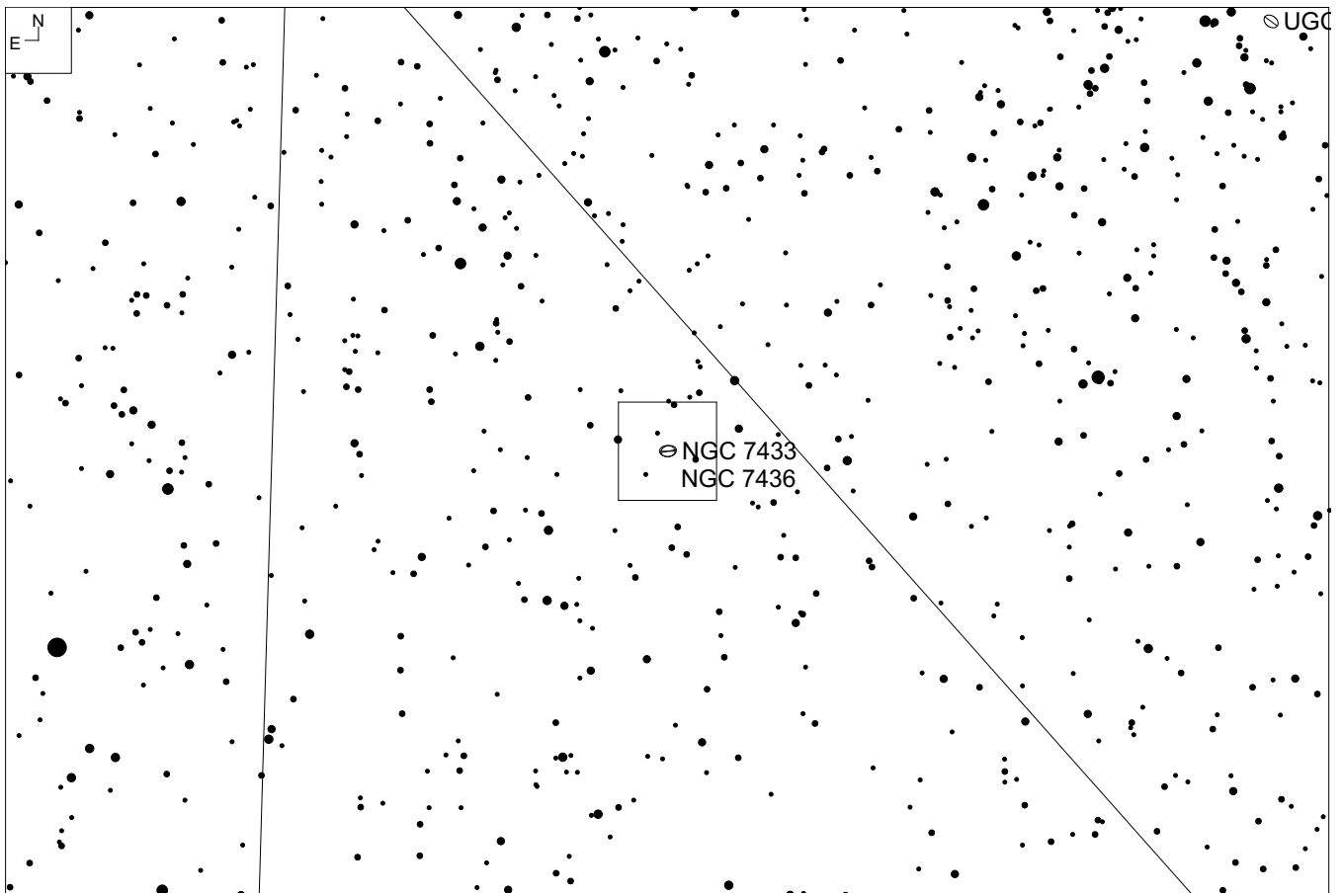
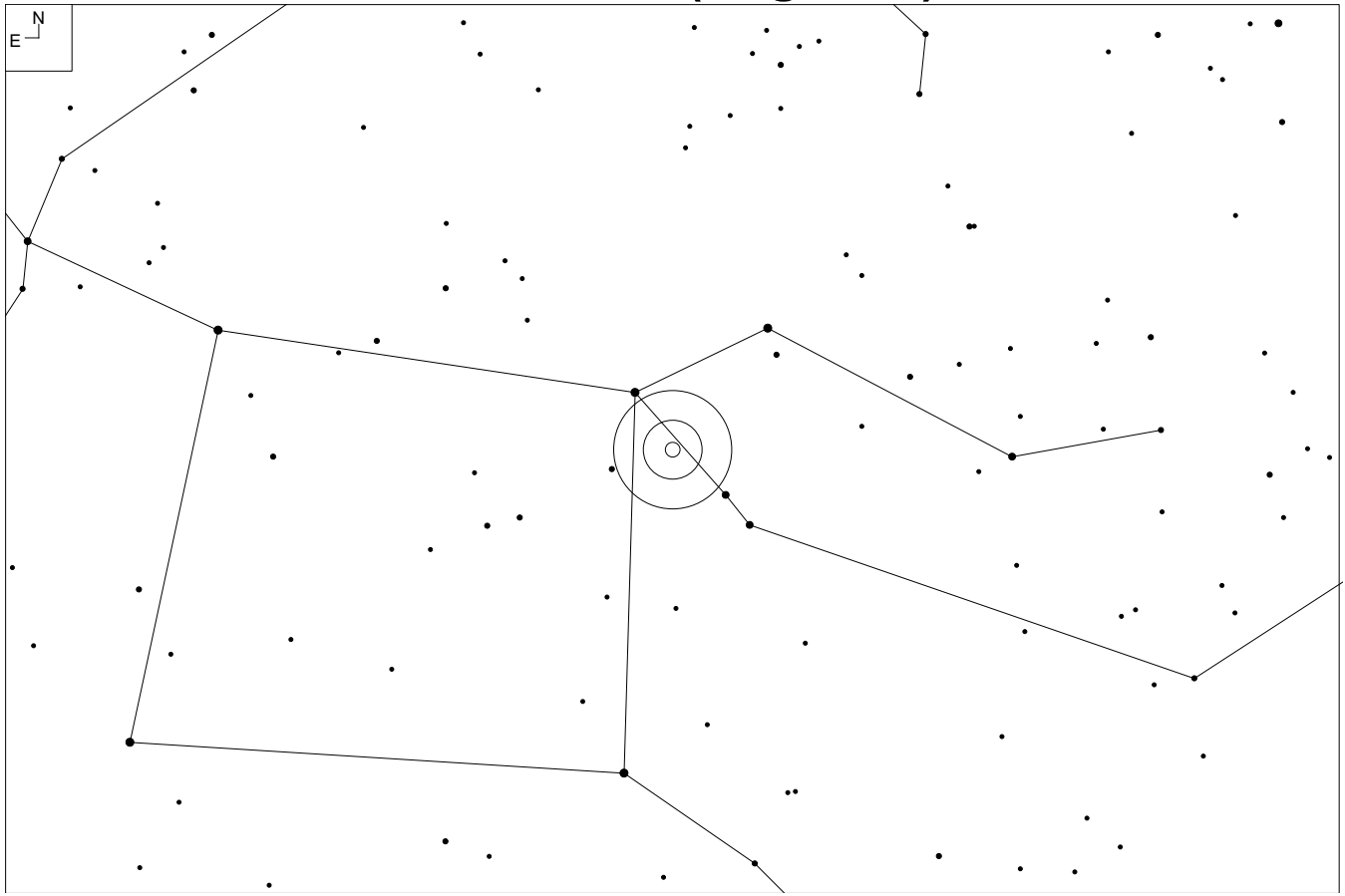


# NGC 7385 (Pegasus)



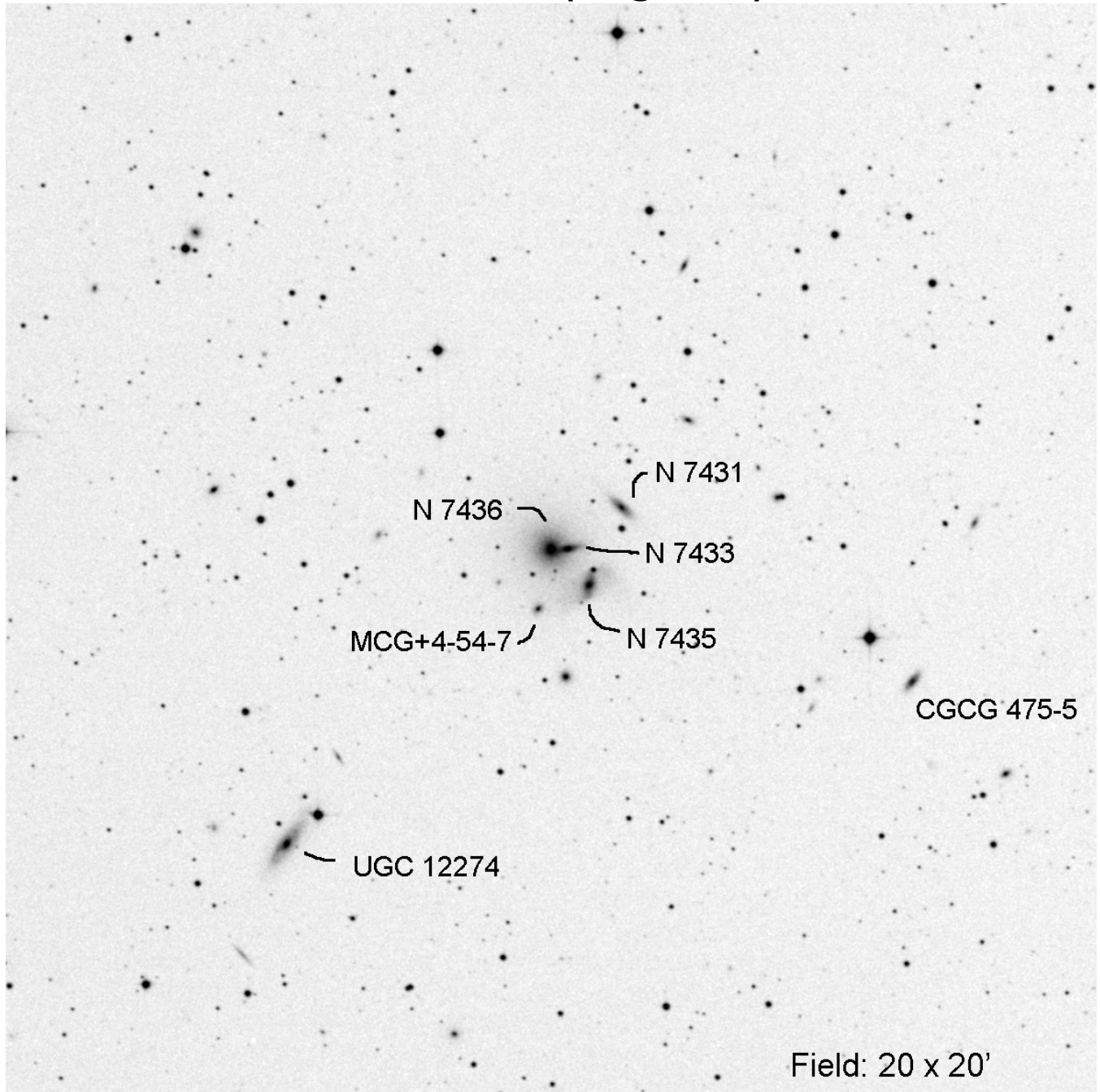
RA	Dec	Mag <sub>1</sub>	# of galaxies
22 49 54.6	+11 36 31	12.0	7

# NGC 7436 (Pegasus)



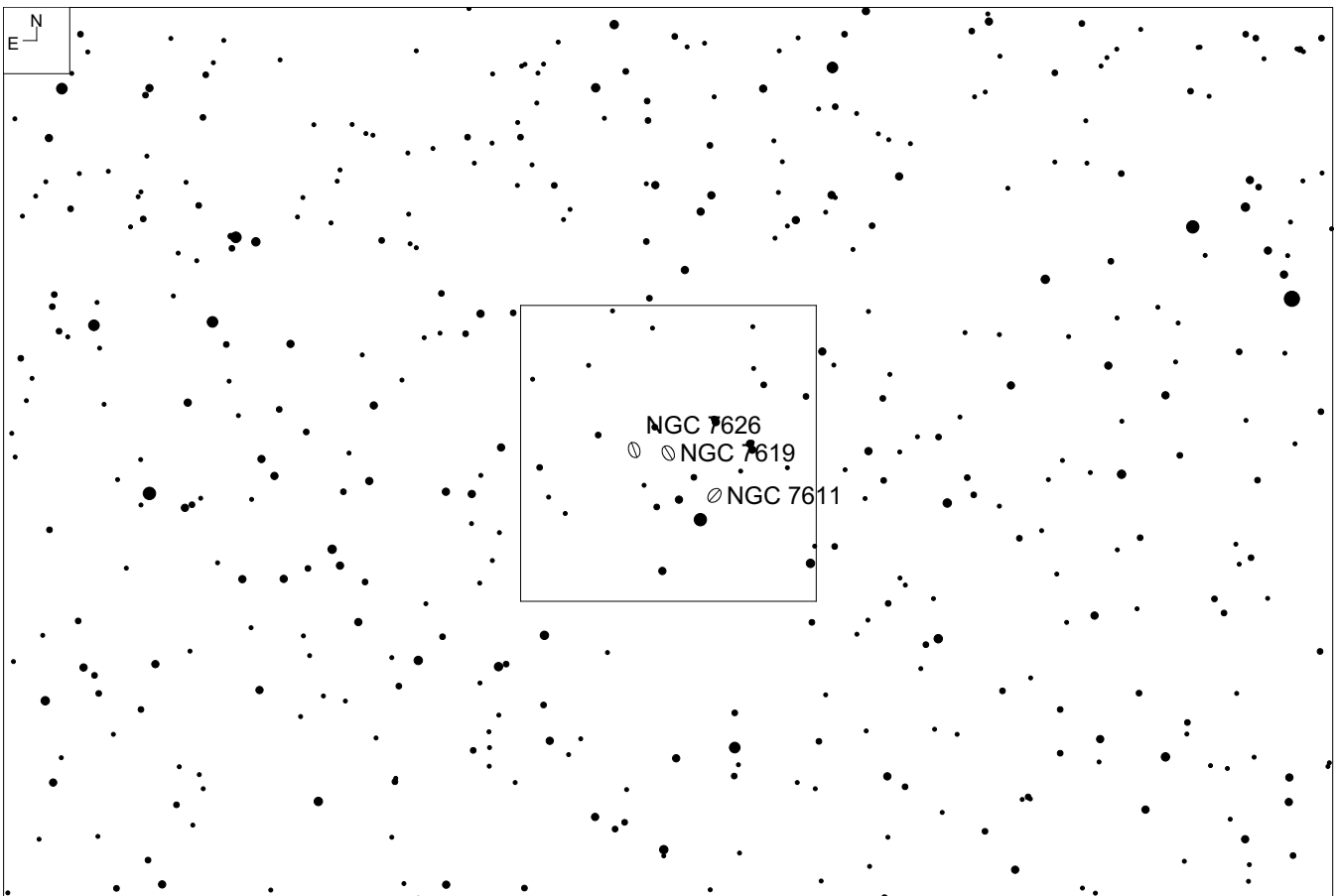
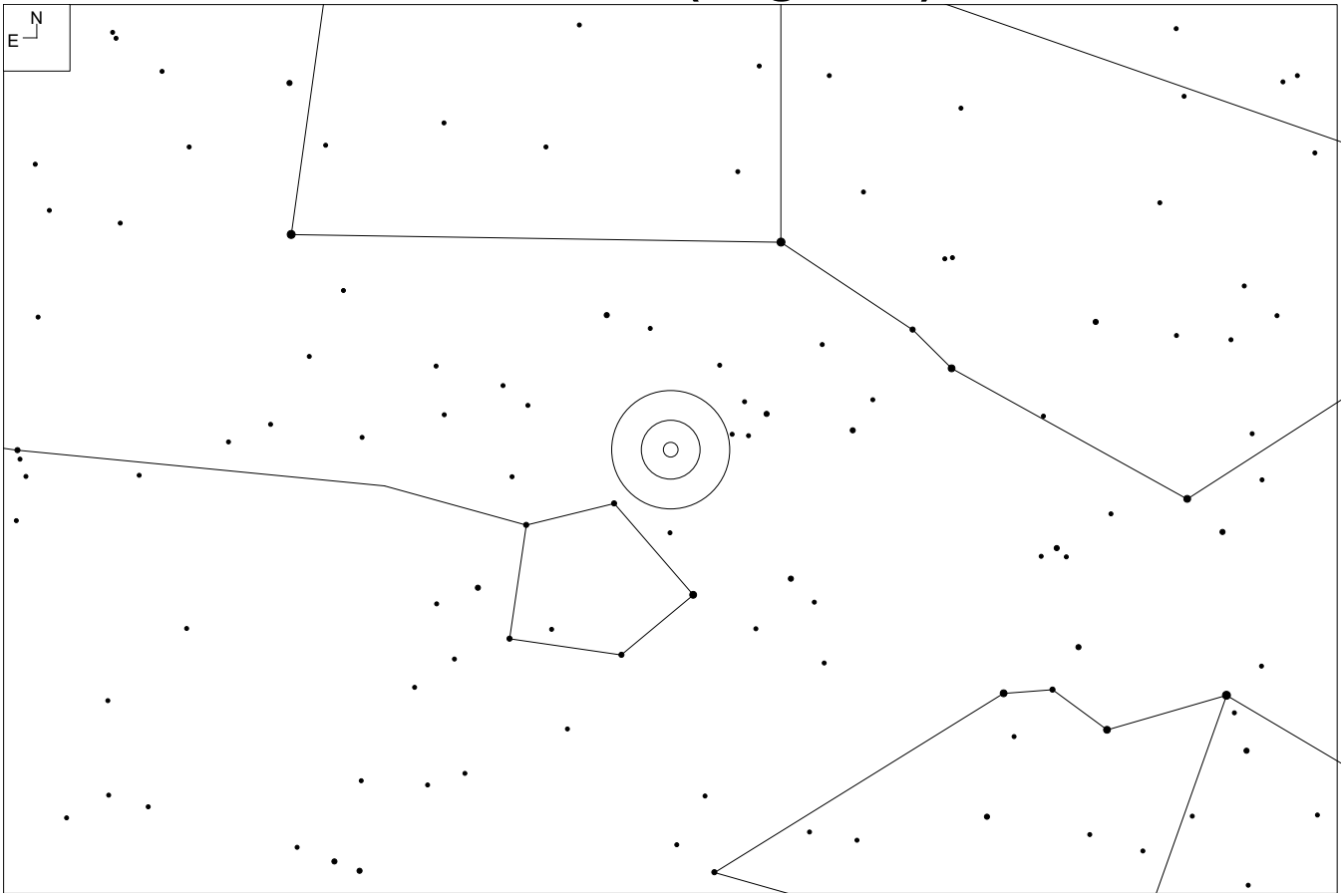


# NGC 7436 (Pegasus)

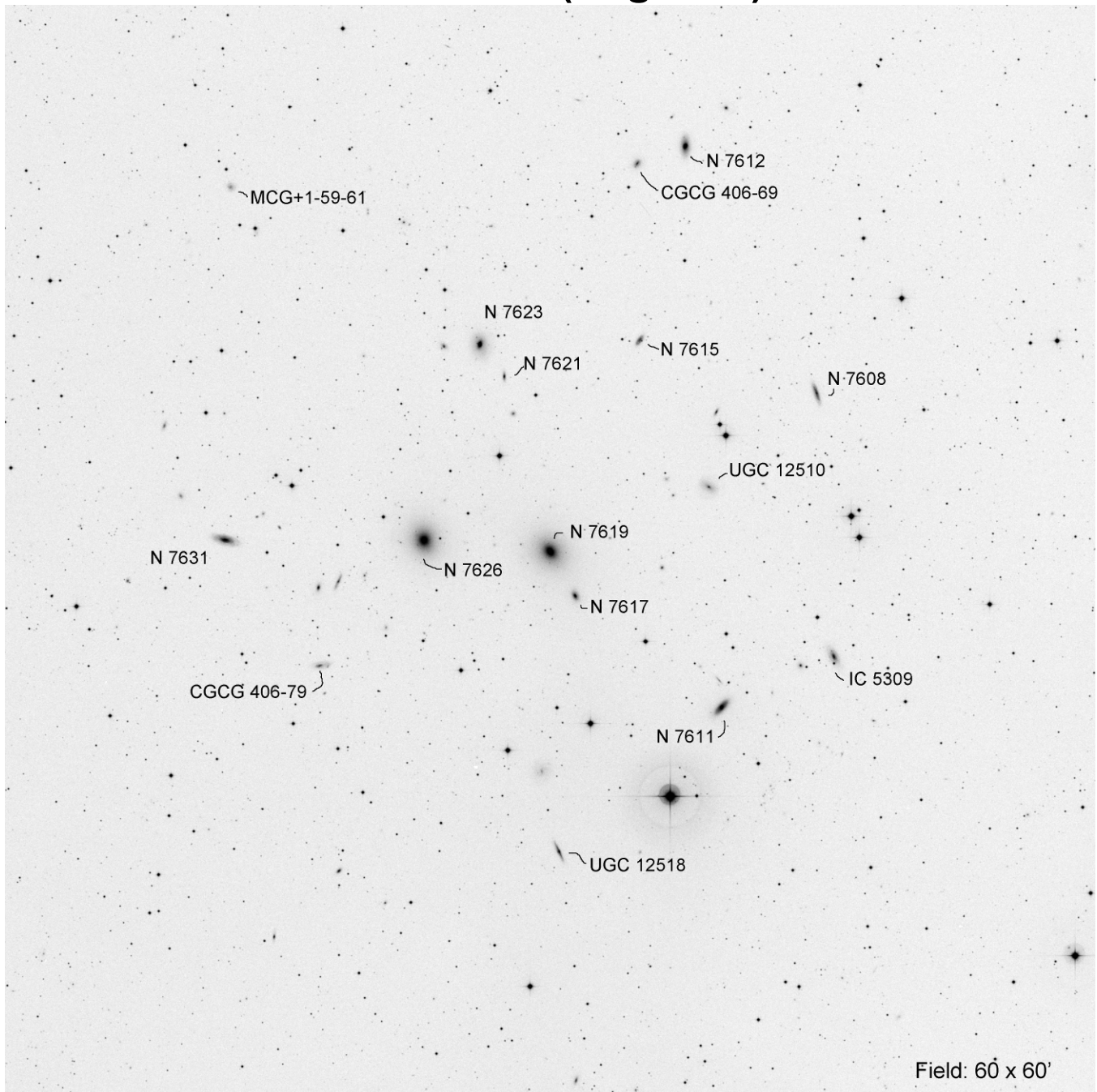


RA	Dec	Mag <sub>1</sub>	# of galaxies
22 57 56.0	+26 09 00	13.8	5

# NGC 7619 (Pegasus)



# NGC 7619 (Pegasus)



RA	Dec	Mag <sub>1</sub>	# of galaxies
23 20 14.5	+08 12 23	11.1	15

# Additional Resources

## Books

Eicher, David J. *Galaxies and the Universe*. Milwaukee, WI: Kalmbach Publishing Co., 1992

Kepple, George R. and Sanner, Glen W. *The Night Sky Observer's Guide, Vol. 1 Autumn & Winter*. Richmond, VA: Willmann-Bell, 1998

Kepple, George R. and Sanner, Glen W. *The Night Sky Observer's Guide, Vol. 2 Spring & Summer*. Richmond, VA: Willmann-Bell, 1998

Luginbuhl, Christian B. and Skiff, Brian A. *Observing Handbook and Catalogue of Deep-Sky Objects*. New York: Cambridge University Press, 1989

Steinicke, Wolfgang and Jakiel, Richard. *Galaxies and How to Observe Them*. New York: Springer Publishing Company, 2007

Stoyan, Ronald and Schurig, Stephan. *interstellarum Deep Sky Atlas*. Cambridge, MA: Cambridge University Press, 2015

Stoyan, Ronald and Glahn, Uwe. *interstellarum Deep Sky Guide*. Cambridge, MA: Cambridge University Press, 2018

Webb Society. *Webb Society Deep-Sky Observer's Handbook, Volume 4: Galaxies*. Edited by Kenneth Glyn Jones. Hillside, NJ: Enslow Publishers Hillside, 1982

Webb Society. *Webb Society Deep-Sky Observer's Handbook, Volume 5: Clusters of Galaxies*. Edited by Kenneth Glyn Jones. Hillside, NJ: Enslow Publishers Hillside, 1982

Webb Society. *Webb Society Deep-Sky Observer's Handbook, Volume 6: Anonymous Galaxies*. Edited by Kenneth Glyn Jones. Hillside, NJ: Enslow Publishers Hillside, 1987

## Journal Articles

Morgan, W.W., Kayser, S., White, R.A. "cD Galaxies in Poor Clusters". *The Astrophysical Journal*, Vol. 199 (1975), 545-548.

Albert, C.E., White R.A. and Morgan W.W., "cD Galaxies in Poor Clusters II" *The Astrophysical Journal*, Vol. 211 (1977), 309-310

Hickson, Paul. "Compact Groups of Galaxies" *Annual. Review of Astronomy and Astrophysics*. Vol. 35 (1997), 357-388

## Websites

[www.deepskyforum.com](http://www.deepskyforum.com) - The premier Deep Sky forum where advanced deep sky observers converge and discuss various aspects of deep sky observing.

[www.cloudynights.com](http://www.cloudynights.com) – Great resource for like-minded amateurs discussing various aspects of the hobby.

[www.astronomy-mall.com/Adventures.In.Deep.Space/](http://www.astronomy-mall.com/Adventures.In.Deep.Space/) - Great source of observing projects for all skill levels

[nedwww.ipac.caltech.edu/](http://nedwww.ipac.caltech.edu/) - NASA-IPAC Extragalactic Database – NED

[archive.stsci.edu/cgi-bin/dss\\_form](http://archive.stsci.edu/cgi-bin/dss_form) - The STScI Digitized Sky Survey

[skyserver.sdss3.org/dr8/en/tools/chart/chart.asp](http://skyserver.sdss3.org/dr8/en/tools/chart/chart.asp) - SkyServer DR8 Tools for Visual Exploration (SDSS)

[www.galaxyzoo.com](http://www.galaxyzoo.com) – Galaxy Zoo

### **Sources of charts and images**

Charts by *Megastar version 5* Willmann-Bell Richmond, VA

DSS images (Digital Sky Survey) [archive.stsci.edu/dss/acknowledging.html](http://archive.stsci.edu/dss/acknowledging.html)

# Revision History

Date	Revision
April 28, 2010	<ul style="list-style-type: none"> <li>• Added 11 new small galaxy groups               <ul style="list-style-type: none"> <li>○ MCG +0-27-23</li> <li>○ NGC 4213</li> <li>○ IC 4064</li> <li>○ NGC 3822</li> <li>○ MCG +0-36-32</li> <li>○ NGC 5629</li> <li>○ UGC 9887</li> <li>○ UGC 4956</li> <li>○ CGCG 9-42</li> <li>○ NGC 5920</li> <li>○ NGC 4104</li> </ul> </li> <li>• Added journal articles</li> </ul>
August 31, 2012	<ul style="list-style-type: none"> <li>• Enhanced magnitude scaling of finder charts.</li> </ul>
March 22, 2013	<ul style="list-style-type: none"> <li>• Enhanced readability of all DSS images.</li> <li>• Refreshed finder charts to align with DSS images.</li> </ul>
March 26, 2013	<ul style="list-style-type: none"> <li>• Very minor enhancements               <ul style="list-style-type: none"> <li>• Enhanced TOC</li> <li>• Moved the index to the beginning</li> <li>• Enhanced recommended reading section</li> </ul> </li> </ul>
April 12, 2013	Minor edits – mainly to the How to Use section. Added Front Cover
February 24, 2018	Removed Arp 138 from Index. Typo. Inadvertently added to NGC 4065, whereas Arp 138 is actually NGC 4015 as indicated on page 59.
March 2024	Minor edits. No material changes. Added a few resources to Additional Resources