

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 central core and a visible dust lane. The text is overlaid on the top half of the image.

Observing Selected Small Galaxy Groups

Alvin Huey
FaintFuzzies.com

Selected Small Galaxy Groups

Alvin Huey

www.FaintFuzzies.com

Updated: July 2024

Observing Books by Alvin Huey

Hickson Group Observer's Guide, 2nd edition

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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

Front Cover: NGC 7331 and companions

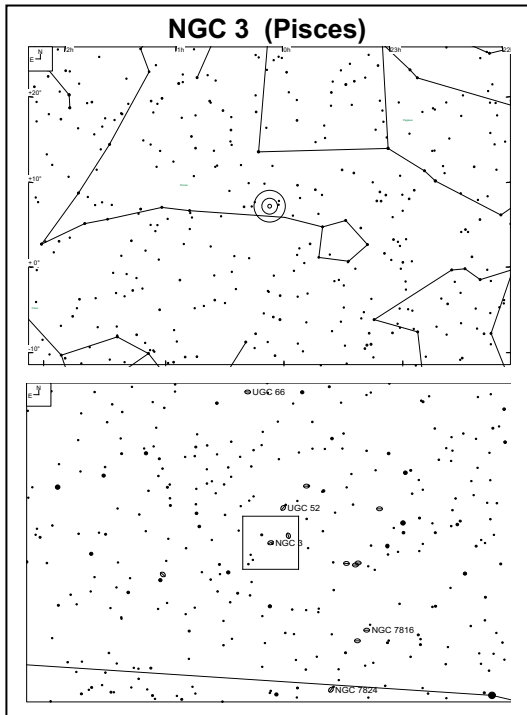
This and other publications by the author are available through www.faintfuzzies.com



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How to Use the Atlas



Introduction

This list was inspired by Astronomical League’s Galaxy Groups and Cluster Observing Program.¹ Over time, I added more groups from looking through star atlas, journal articles, etc. This catalogue currently contains the 50 groups from AL’s list plus 52 additional groups.

This guide was built to be opened flat with coil binding or something similar, so the left page contains the finder charts, and the right page contains the detailed labeled DSS image with key data.

Left Page

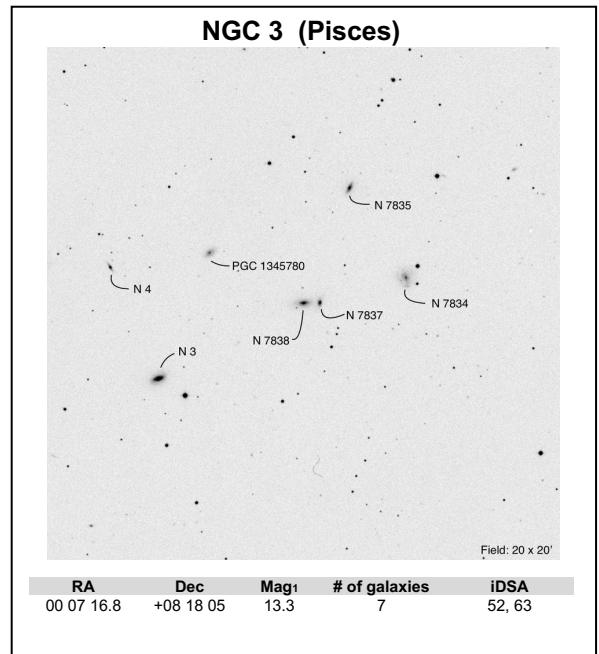
The top panel is the naked eye field with the TelRad™ superimposed on the center of the Galaxy Group. The bottom panel is a finder field of 4.5° across and 3.0° high. The finder field is wide enough for the finder scope and detailed enough for those who choose to use a low power eyepiece as a “finder”. 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’ to 60’ square. In labeling the individual galaxies, I’ve made an attempt to keep it at an observable level and keeping the clutter at a minimum. Some charts are galaxy rich, even then I kept it to respectable level.

A table at the bottom lists the following:

- **Other ID** – if any, it is listed otherwise it is left out.
- **RA** and **Dec** in Epoch 2000.0 of the center of the field
- **Mag₁** – the listed magnitude of the brightest galaxy of the group.
- **# of galaxies** – number of labeled galaxies
- **iDSA** – page number of the *interstellarum Deep Sky Atlas* (if the page number is italicized, then the object is not plotted but on the page.)²



Any comments or to share any observations, send them to 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.

¹ Robert McGown and Miles Paul. *Galaxy Groups and Clusters: A Visual and CCD Observing Guide for the Advanced Amateur Astronomer*. 2nd Edition (Astronomical League, 2003), pp. 60 - 86

² Ronald Stoyan and Stephan Schurig. *interstellarum Deep Sky Atlas*. (Cambridge, MA: Cambridge University Press, 2015)

Selected Small Galaxy Groups Catalogue

Page	AL	Brightest Member	Other ID	RA	Dec	Const	Mag ₁	#
12		NGC 7782		23 53 32.8	+07 59 12	Psc	12.2	5
14	*	NGC 3	Includes Arp 246	00 06 53.9	+08 21 03	Psc	13.3	7
16		NGC 182		00 39 14.6	+03 08 11	Psc	12.4	13
18	*	NGC 383	Pisces chain	01 07 25.2	+32 24 47	Psc	12.4	12
20	*	NGC 507		01 23 19.6	+33 16 39	Psc	11.2	21
22		NGC 969		02 34 07.9	+32 56 50	Psc	12.4	7
24		IC 1724		01 43 10.0	-34 14 31	Scl	14.1	5
26	*	NGC 329		00 58 01.5	-05 04 16	Cet	13.3	6
28		NGC 1052		02 39 48.7	-08 26 01	Cet	10.5	6
30		NGC 88	Robert's Quartet	00 21 22.0	-48 38 24	Phe	13.7	6
32	*	NGC 439	AGC 141	01 13 47.3	-31 44 50	Scl	11.4	7
34	*	IC 5370		00 00 09.2	+32 44 18	And	14.9	5
36	*	NGC 68	Includes Arp 113	00 18 18.5	+30 04 18	And	12.9	9
38	*	NGC 80	Includes Arp 65	00 21 25.6	+22 30 42	And	12.1	14
40		NGC 536		01 26 05.0	+34 42 11	And	12.8	4
42	*	NGC 1129	AWM 7	02 54 27.1	+41 34 45	Per	12.5	9
44		NGC 877		02 17 25.4	+14 31 10	Ari	11.9	6
46	*	NGC 1399	AGC 373	03 38 29.0	-35 26 58	For	10.6	11
48		NGC 1402	Eridanus A group	03 39 30.6	-18 31 37	Eri	9.7	9
50		IC 408	Snow 20	05 20 22.0	-25 09 58	Lep	13.8	11
52		NGC 1954		05 32 47.1	-14 03 43	Lep	12.5	4
54	*	NGC 2289		06 50 53.6	+33 28 44	Gem	13.2	6
56	*	NGC 2340		07 11 10.7	+50 10 27	Lyn	11.7	9
58		NGC 2749		09 05 01.2	+18 24 10	Cnc	11.8	6
60	*	NGC 2804	AWM 1	09 16 50.0	+20 11 54	Cnc	12.8	12
62		NGC 2684		08 54 54.0	+49 09 38	UMa	13.4	8
64	*	NGC 2998		09 48 43.7	+44 04 52	UMa	12.5	6
66		NGC 3090	MKW 1	10 00 30.2	-02 58 08	Sex	13.6	7
68		CGCG 9-42	MKW 2s	10 27 10.2	-03 19 06	Sex	14.6	5
70		MCG+0-27-23	MKW 2	10 30 10.6	-03 09 50	Sex	13.8	5
72		NGC 2708		08 55 21.6	-03 11 02	Hyd	12.6	7
74		UGC 4956	MKW 1s	09 20 01.9	+01 02 20	Hyd	13.5	3

Page	AL	Brightest Member	Other ID	RA	Dec	Const	Mag ₁	#
76		NGC 3311	Hydra I cluster	10 36 42.0	-27 31 48	Hyd	10.9	29
78		NGC 3268	Antlia Cluster	10 29 59.7	-35 19 40	Ant	11.7	24
80	*	NGC 3158		10 13 50.5	+38 45 53	LMi	11.9	11
82	*	NGC 2943		09 38 32.9	+17 01 52	Leo	12.4	8
84	*	NGC 3607		11 16 54.7	+18 03 05	Leo	9.9	7
86	*	M 66	Arp 16 and 317	11 20 15.0	+12 59 00	Leo	8.9	3
88	*	IC 696		11 28 39.9	+09 05 55	Leo	13.7	7
90	*	NGC 3801		11 40 16.9	+17 43 41	Leo	12	7
92	*	NGC 4005	Arp 138	11 58 10.1	+25 07 19	Leo	13.1	15
94	*	M 106		12 18 57.3	+47 18 31	CVn	8.4	8
96		IC 4064	AWM 6	13 01 06.7	+39 50 29	CVn	14.7	6
98		NGC 5096		13 20 30.0	+33 05 17	CVn	14.6	7
100	*	NGC 5280		13 42 55.6	+29 52 06	CVn	13.6	8
102	*	NGC 4065		12 04 06.2	+20 14 07	Com	12.6	13
104		NGC 4104	MKW 4s	12 06 38.9	+28 10 27	Com	13.1	7
106		NGC 4213	AWM 2	12 15 37.6	+23 58 56	Com	13.5	12
108	*	M 100		12 22 55.0	+15 49 25	Com	9.3	10
110		MCG-2-28-45		11 05 38.9	-09 55 26	Crt	13.2	8
112	*	MCG-1-30-3	Part of NGC 3724 group	11 34 16.9	-09 34 33	Crt	14.1	10
114		NGC 3822	MKW 10	11 42 11.2	+10 16 40	Vir	14.1	5
116		CGCG 12-99	MKW 3	11 49 41.0	-03 30 34	Vir	14.2	7
118		NGC 4073	MKW 4	12 04 27.1	+01 53 45	Vir	11.1	15
120	*	NGC 4261		12 19 23.2	+05 49 29	Vir	10.4	23
122	*	M 86	Markarian's Chain	12 26 11.8	+12 56 49	Vir	8.9	22
124	*	M 49		12 29 46.5	+07 59 58	Vir	8.4	12
126	*	M 87		12 30 49.7	+12 23 24	Vir	8.6	12
128	*	M 60		12 43 40.3	+11 32 58	Vir	8.8	12
130	*	NGC 5044		13 15 24.0	-16 23 09	Vir	10.8	15
132		NGC 5077		13 19 31.7	-12 39 25	Vir	12.8	7
134	*	NGC 5171	MKW 11	13 29 21.6	+11 44 06	Vir	12.8	9
136		NGC 5400	MKW 5	14 00 37.2	-02 51 27	Vir	13.9	4
138		MCG +0-36-32	MKW 6	14 17 35.5	+02 03 11	Vir	15.3	1*
140		UGC 9371	MKW 7	14 33 59.1	+03 46 40	Vir	15	10
142		NGC 5718	MKW 8	14 40 42.9	+03 27 57	Vir	13.9	12

Page	AL	Brightest Member	Other ID	RA	Dec	Const	Mag ₁	#
144	*	NGC 5846		15 06 16.0	+01 36 23	Vir	10	5
146	*	IC 4349	Includes Hickson 69	13 55 45.1	+25 12 11	Boo	15.3	13
148		NGC 5416		14 02 55.7	+09 25 15	Boo	13.6	20
150	*	NGC 5434	MKW 12	13 53 26.7	+40 18 09	Boo	13.2	18
152	*	NGC 5490	Includes Arp 79 and 117	14 09 57.3	+17 32 44	Boo	12.1	7
154		NGC 5603		14 22 50.0	+40 22 39	Boo	14.0	4
156		NGC 5629	AWM 3	14 28 16.3	+25 50 55	Boo	13	7
158	*	NGC 5714		14 38 11.4	+46 38 19	Boo	13.4	5
160	*	NGC 5754	Includes Arp 297	14 45 19.7	+38 43 57	Boo	13.1	4
162	*	UGC 9521		14 47 00.1	+11 35 31	Boo	14.4	6
164		NGC 5797		14 56 16.9	+49 32 07	Boo	13.6	5
166		NGC 5899		15 14 22.0	+42 02 46	Boo	13.1	5
168		IC 4562		15 36 35.2	+43 25 33	Boo	13.8	6
170		NGC 5920	MKW 3s	15 21 51.9	07 42 32	Ser	14.7	4
172		UGC 9887	MKW 9	15 32 26.0	+04 44 54	Ser	15	4
174		NGC 6051	AWM 4	16 04 56.7	+23 55 57	Ser	14.2	5
176		NGC 6269	AWM 5	16 57 58.1	+27 51 15	Her	12.2	5
178	*	NGC 6211		16 41 37.2	+57 48 54	Dra	12.6	4
180	*	NGC 6338		17 15 22.6	+57 24 45	Dra	12.3	7
182	*	NGC 6472		17 44 14.9	+67 37 10	Dra	14.2	9
184	*	NGC 6962		20 47 19.0	+00 19 17	Aqr	12.1	8
186	*	NGC 7184		22 02 39.7	-20 48 50	Aqr	11.2	4
188		NGC 6845	Klemola 30	20 00 58.4	-47 04 13	Tel	12.2	4
190		NGC 6850		20 03 42.0	-54 54 35	Tel	13.1	5
192		NGC 6876	Pavo Galaxy Cluster	20 18 19.2	-70 51 32	Pav	11.5	15
194		NGC 7012		21 06 45.0	-44 48 53	Mic	13.7	9
196	*	NGC 7103	Center of AGC 963	21 39 51.4	-22 28 25	Cap	12.6	7
198		NGC 7176		22 02 25.0	-31 54 54	PsA	11.1	6
200		NGC 7268	Klemola 42	22 25 41.2	-31 11 52	PsA	14.1	10
202		IC 5250A/B		22 46 28.0	-64 59 17	Tuc	11.1	5
204		UGC 12127		22 38 29.4	+35 19 47	Peg		6
206	*	NGC 7331	Deer Lick group	22 37 04.5	+34 25 00	Peg	9.5	11

Page	AL	Brightest Member	Other ID	RA	Dec	Const	Mag ₁	#
208	*	NGC 7385		22 49 54.6	+11 36 31	Peg	12	8
210	*	NGC 7436		22 57 56.0	+26 09 00	Peg	13	10
212	*	NGC 7619	Pegasus I group	23 20 14.5	+08 12 23	Peg	11.1	16
214		NGC 7582	Grus Quartet	23 18 24.0	-42 22 13	Gru	10.6	6

Column data

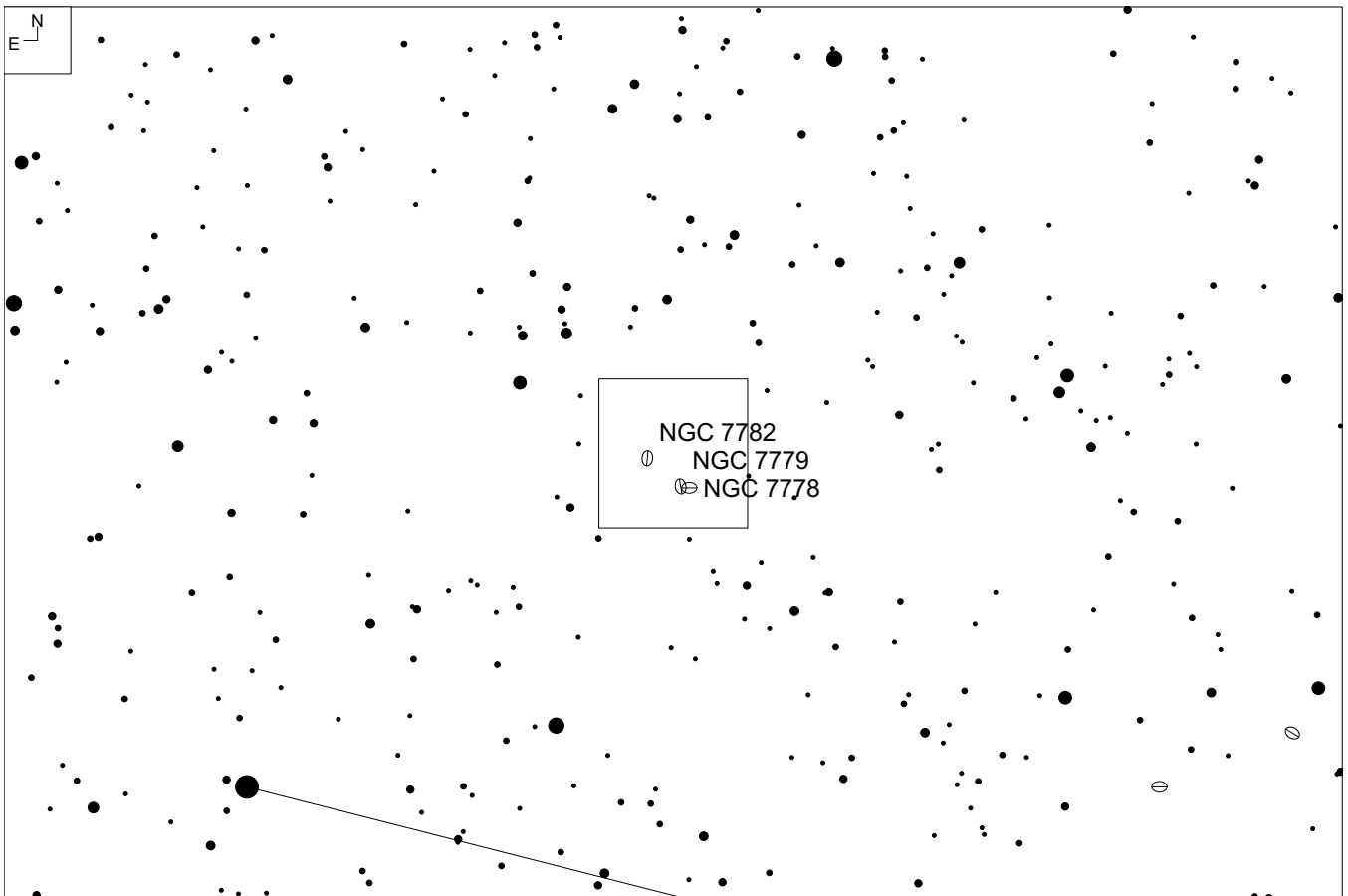
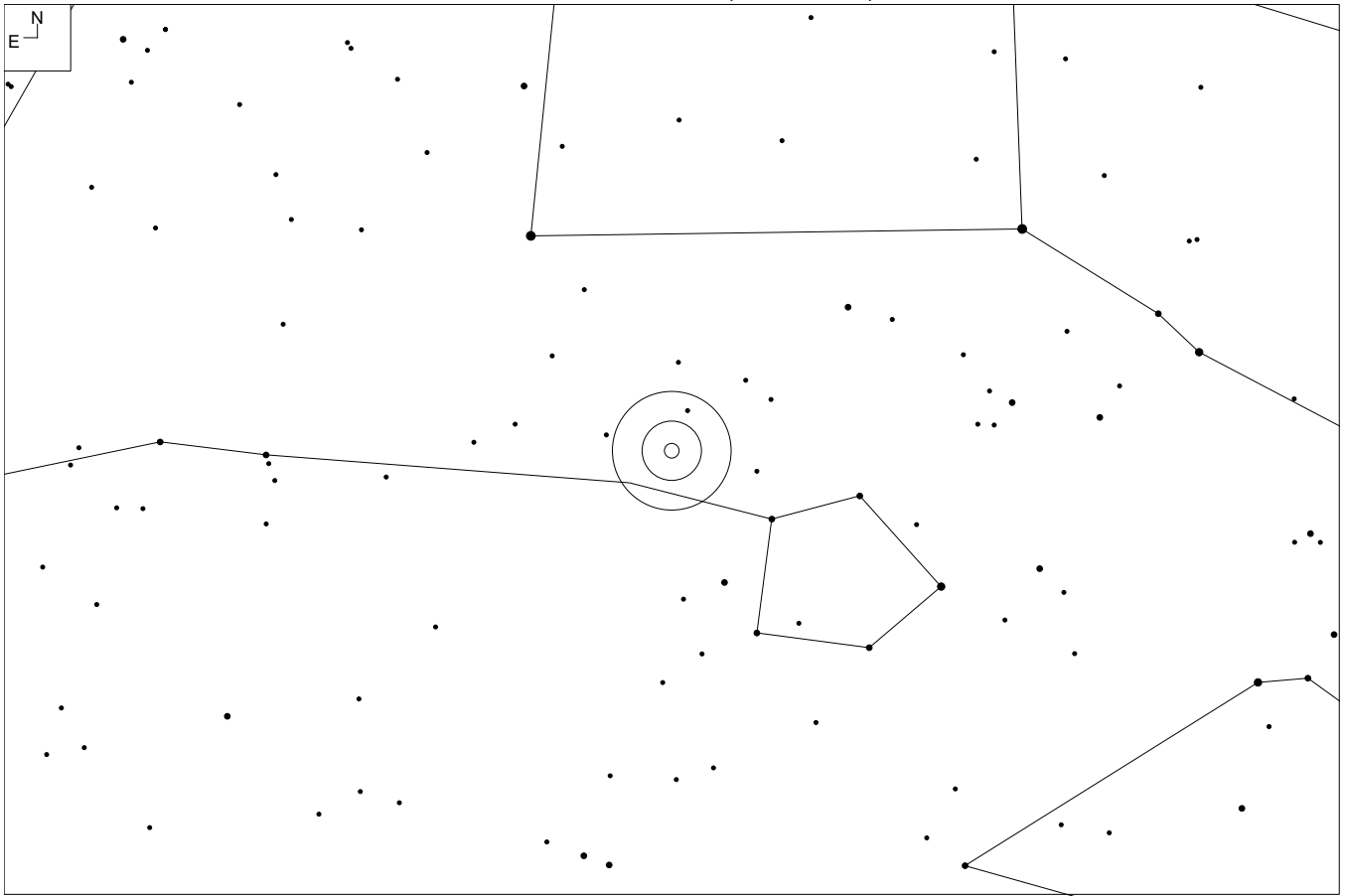
- **AL** – The original Astronomical League Galaxy Groups (50 total). See page 214 for filtered list.
- **Brightest Member** – Catalogue name of the brightest member of the group
- **Other ID**
 - If any, the popular listing, i.e. Deer Lick Group.
 - AGC – Abell Galaxy Cluster
 - MKW – The catalog number of poor clusters in Morgan, Kayser, and White’s paper.³ See page 214 for filtered list of MKW groups.
 - AWM – The catalog number of poor clusters (II) in Albert, White, and Morgan’s paper.⁴ See page 214 for filtered list of AWM groups.
- **RA and Dec (2000)** – Epoch 2000.0 coordinates for the center of the DSS labeled field.
- **Const** – Constellation of the group
- **Mag₁** – Magnitude of the brightest member of the group
- **# gal** - Number of labeled galaxies
 - This number may be different than some published numbers, but I strive to be consistent to what I’ve labeled on the chart without being too cluttered.
 - Some DSS images may have much more, but I’ve labeled what I can with the space.

³ W.W. Morgan, Susan Kayser, and Richard A. White. “cD Galaxies in Poor Clusters”. *The Astrophysical Journal*, Vol. 199 (1975), pp. 545-548

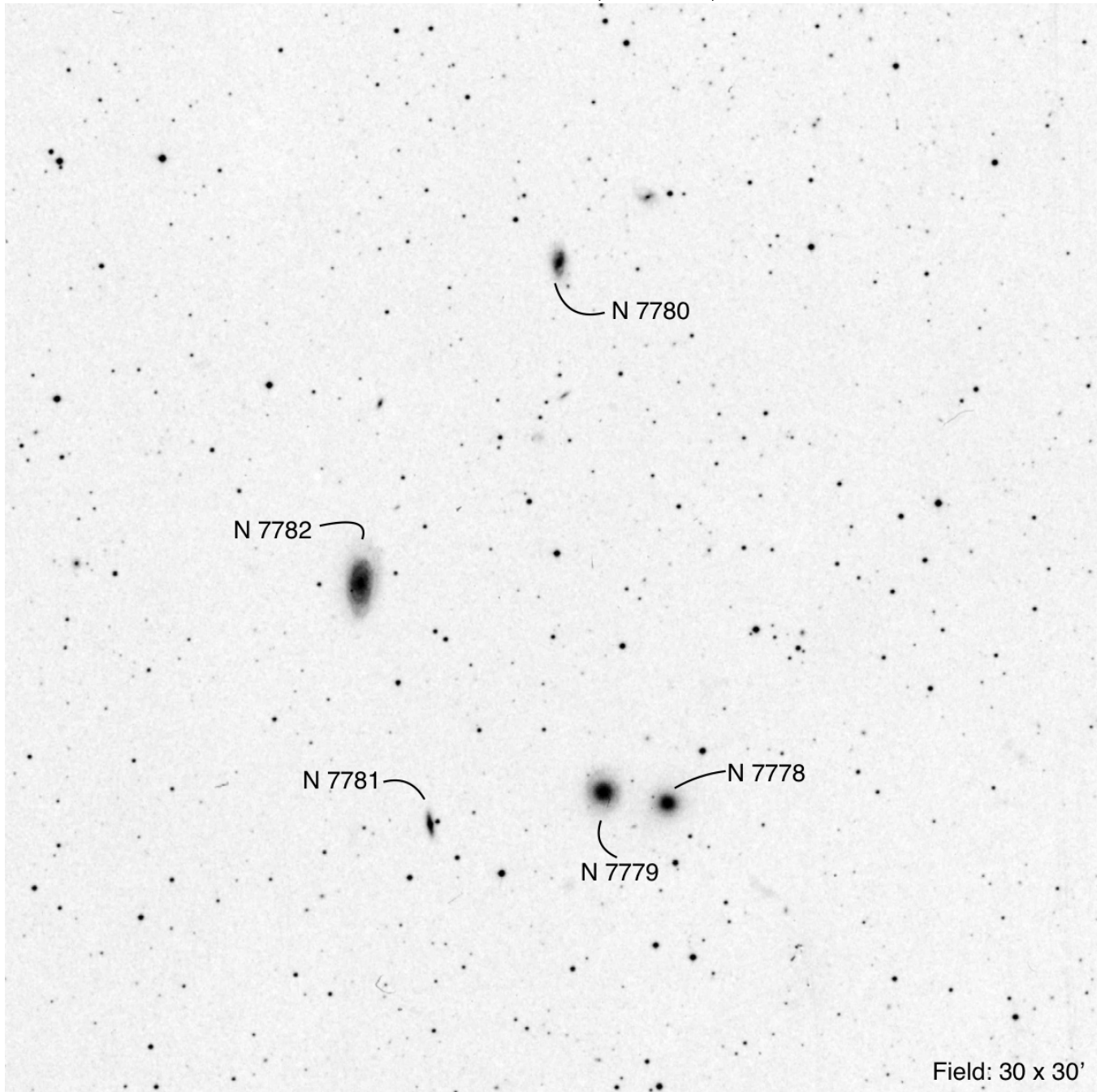
⁴ C.E. Albert, Richard A. White, and W.W. Morgan. “cD Galaxies in Poor Clusters II” *The Astrophysical Journal*, Vol. 211 (1977), pp. 309-310

Selected Small Galaxy Groups Atlas

NGC 7782 (Pisces)



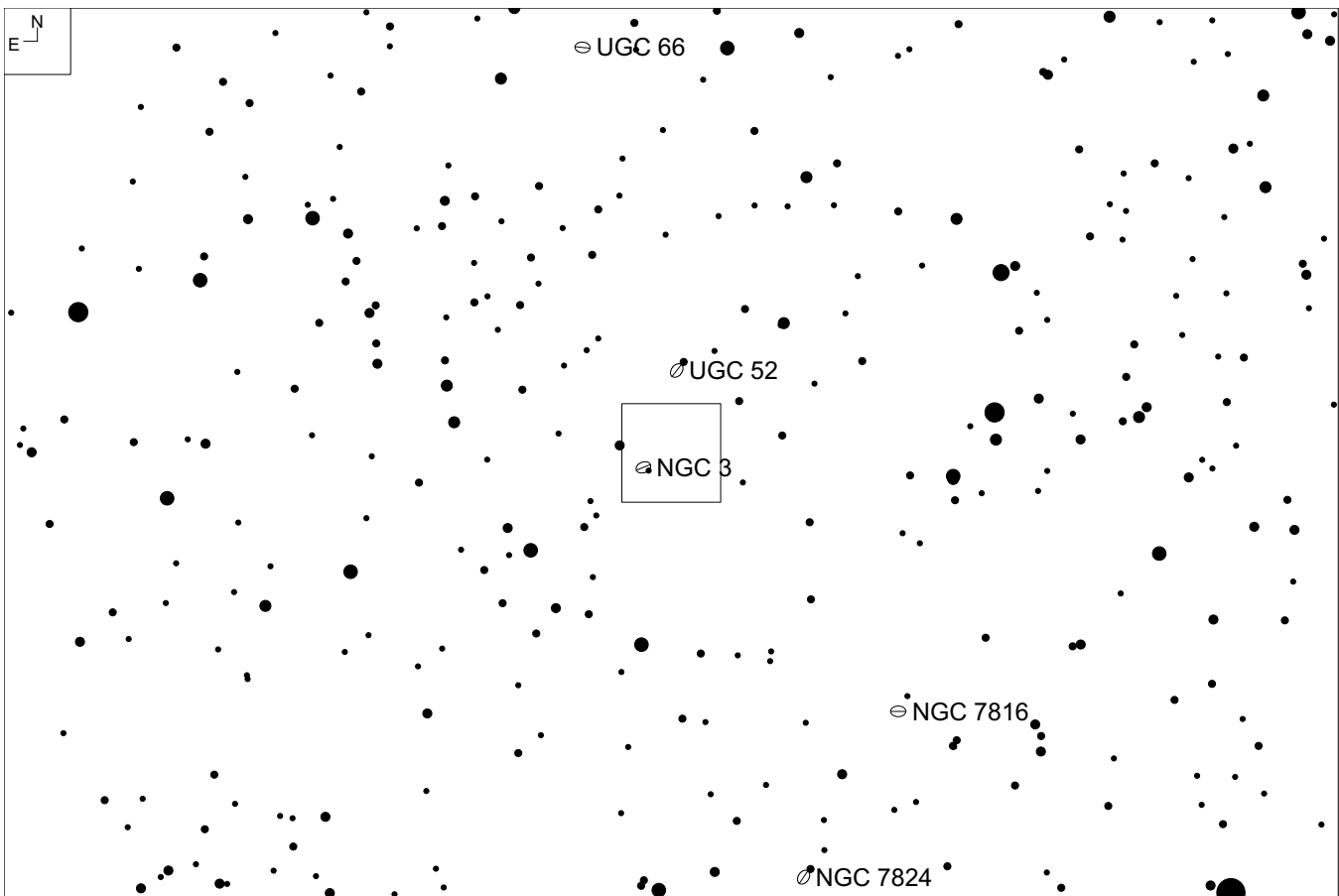
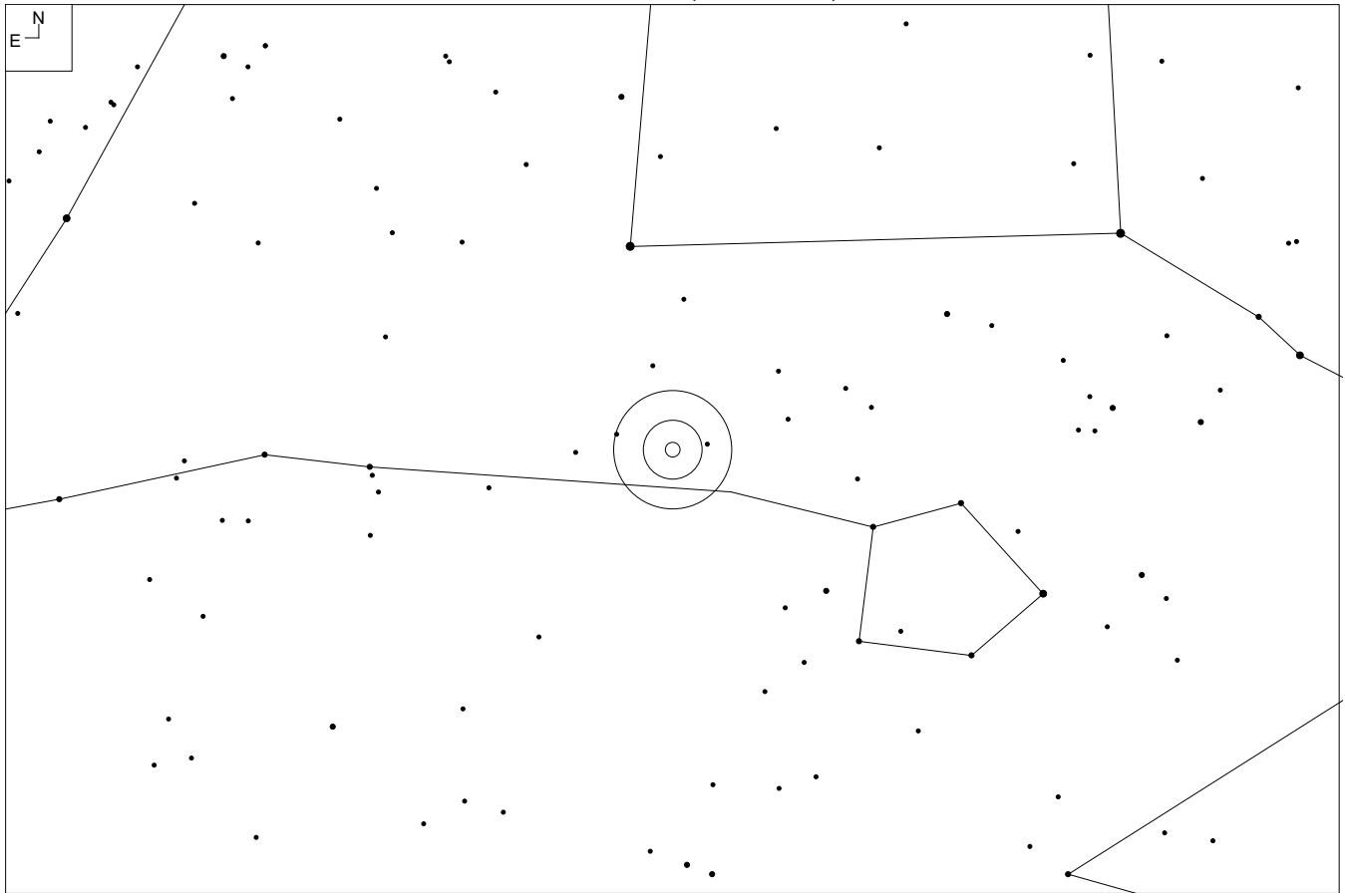
NGC 7782 (Pisces)



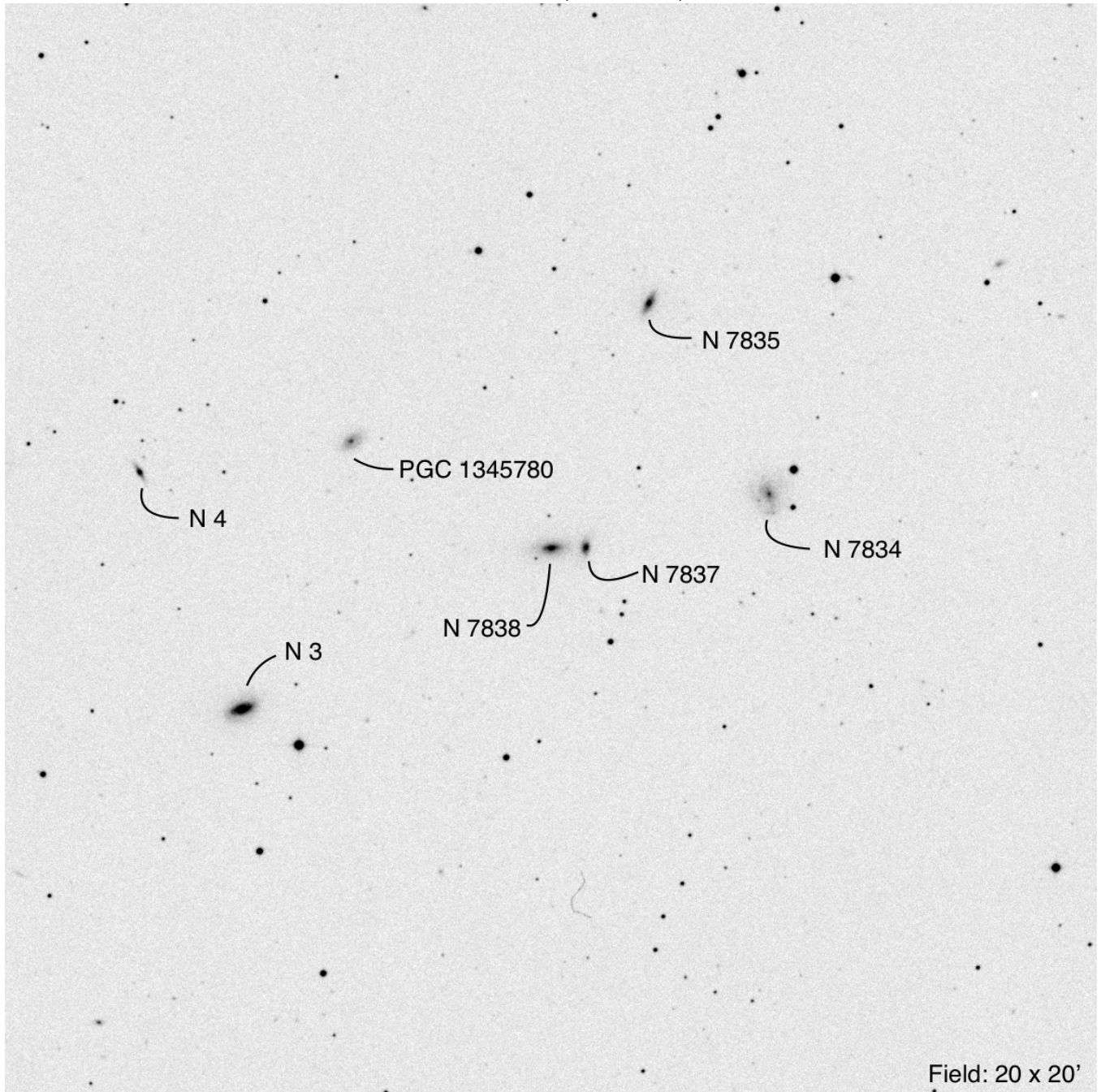
Field: 30 x 30'

RA	Dec	Mag ₁	# of galaxies	iDSA
23 53 32.8	+07 59 12	12.2	5	40, 52

NGC 3 (Pisces)

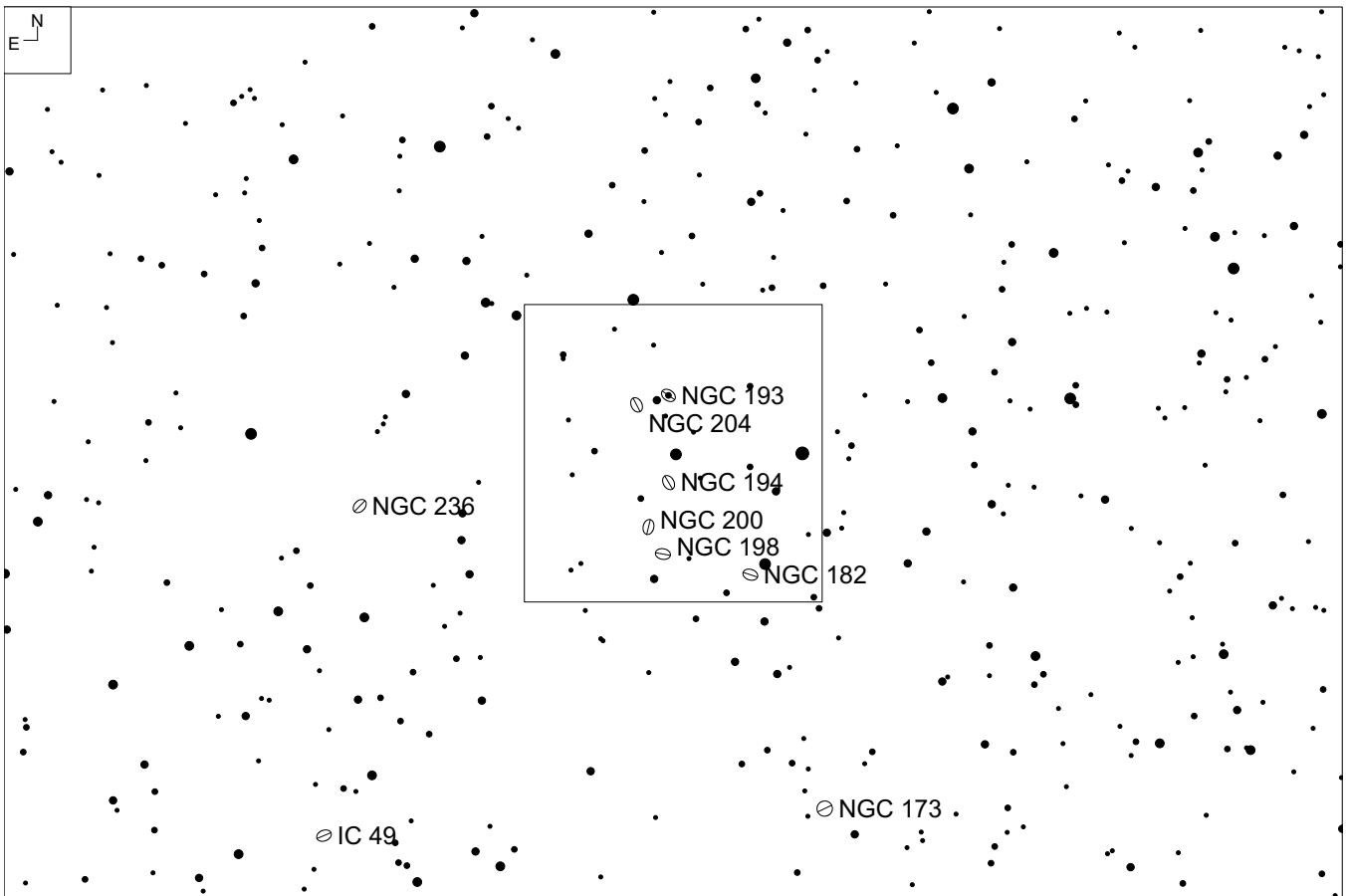
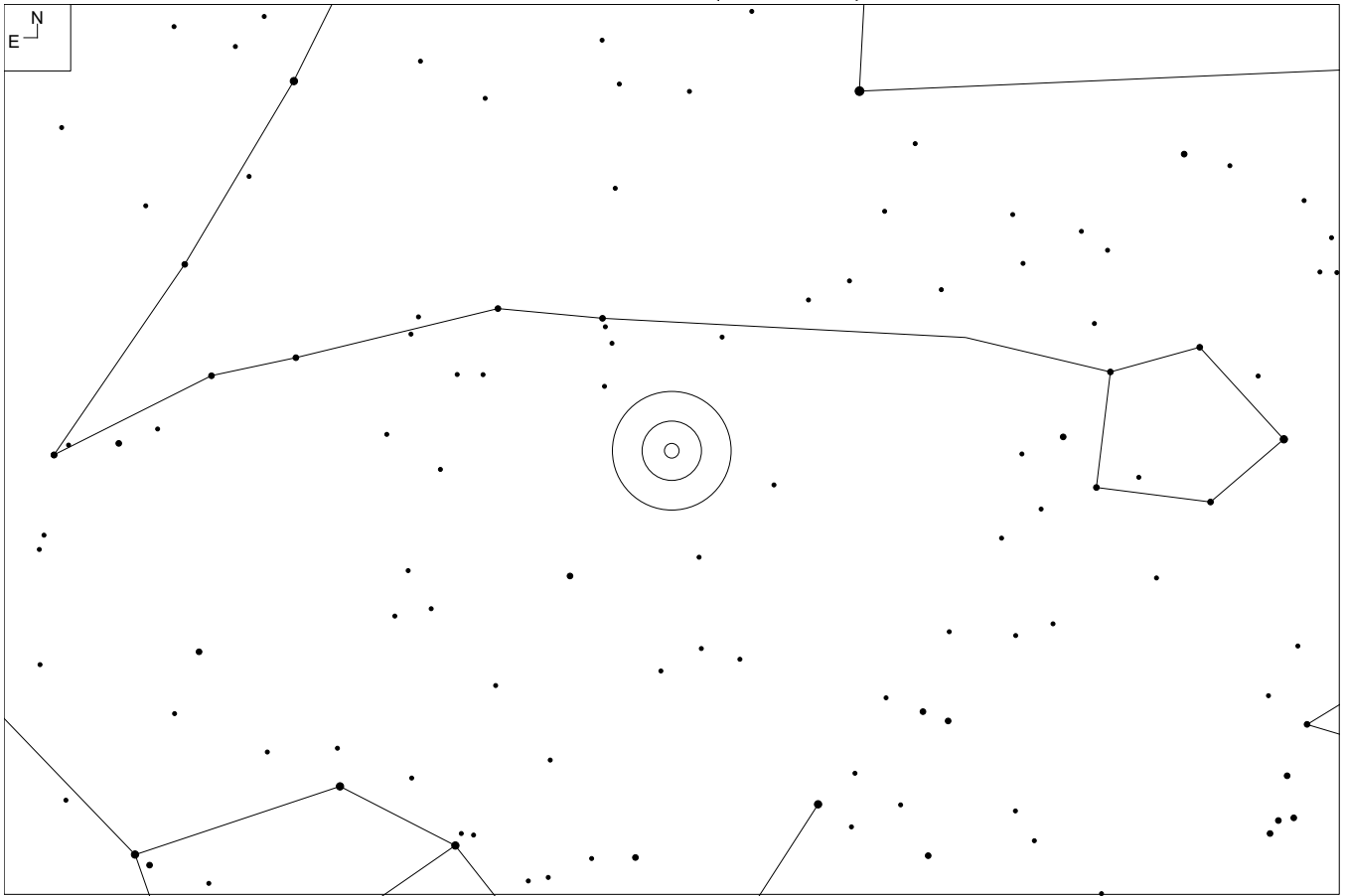


NGC 3 (Pisces)

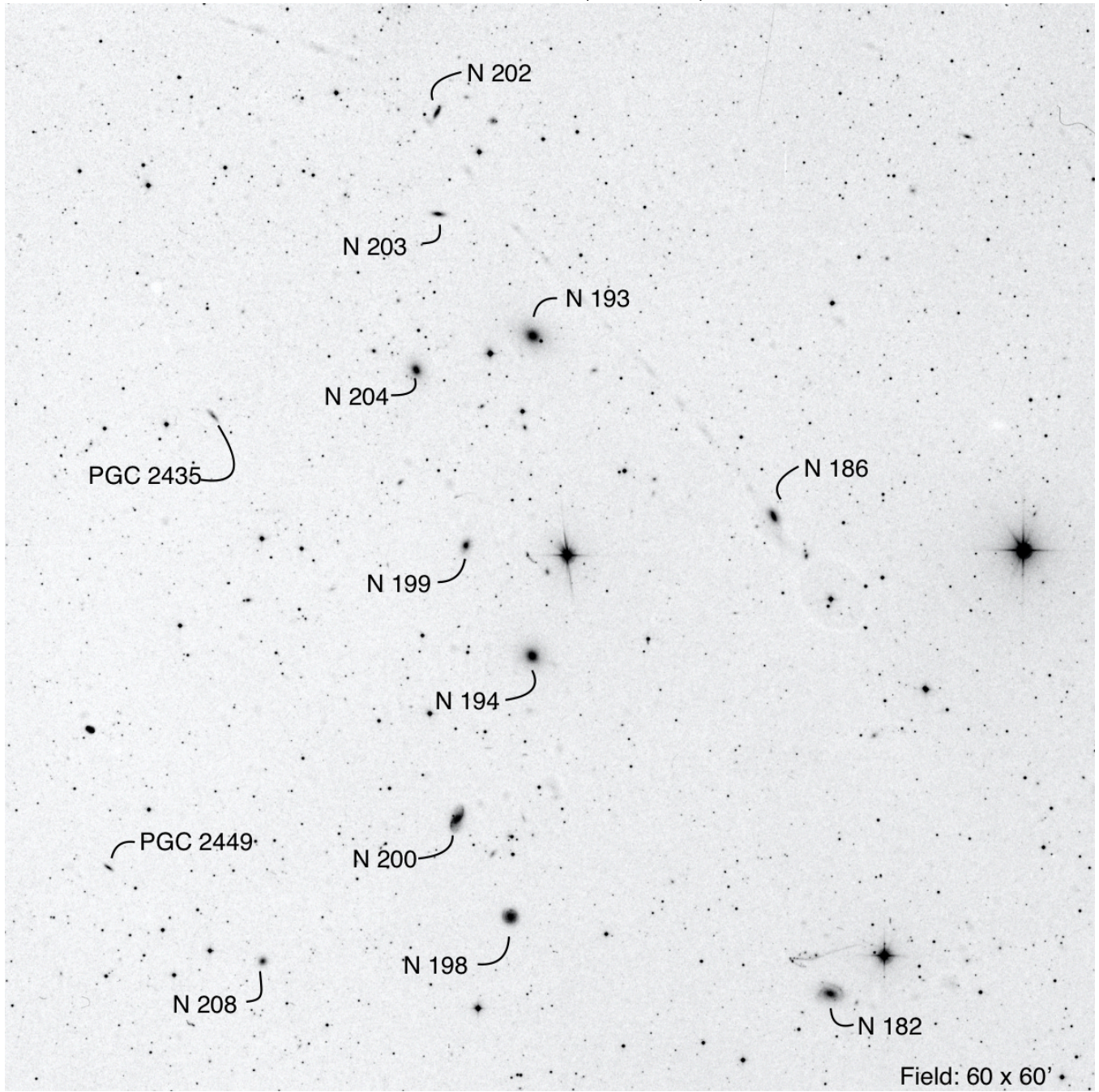


RA	Dec	Mag ₁	# of galaxies	iDSA
00 06 53.9	+08 21 03	13.3	7	51, 63

NGC 182 (Pisces)

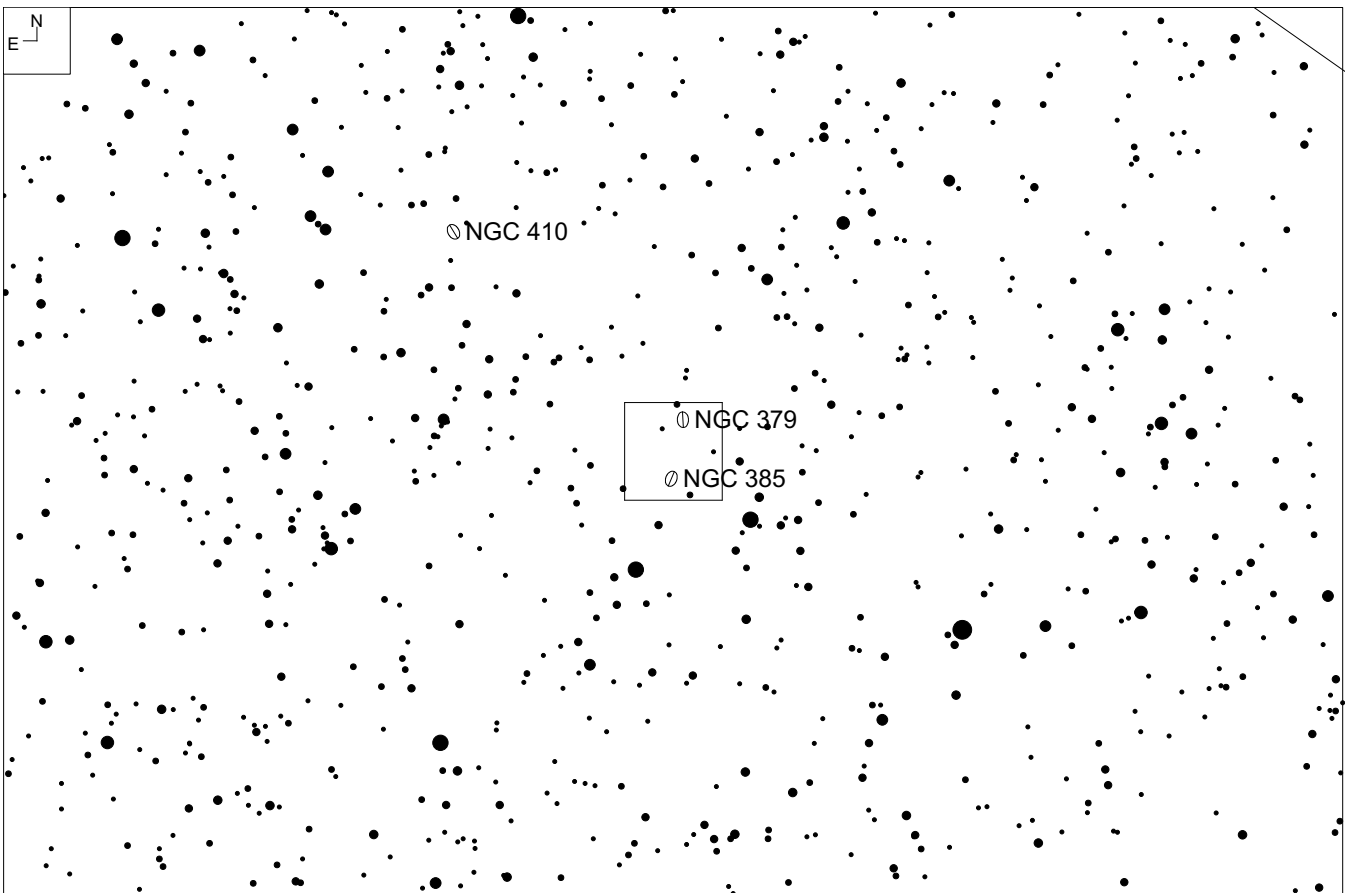
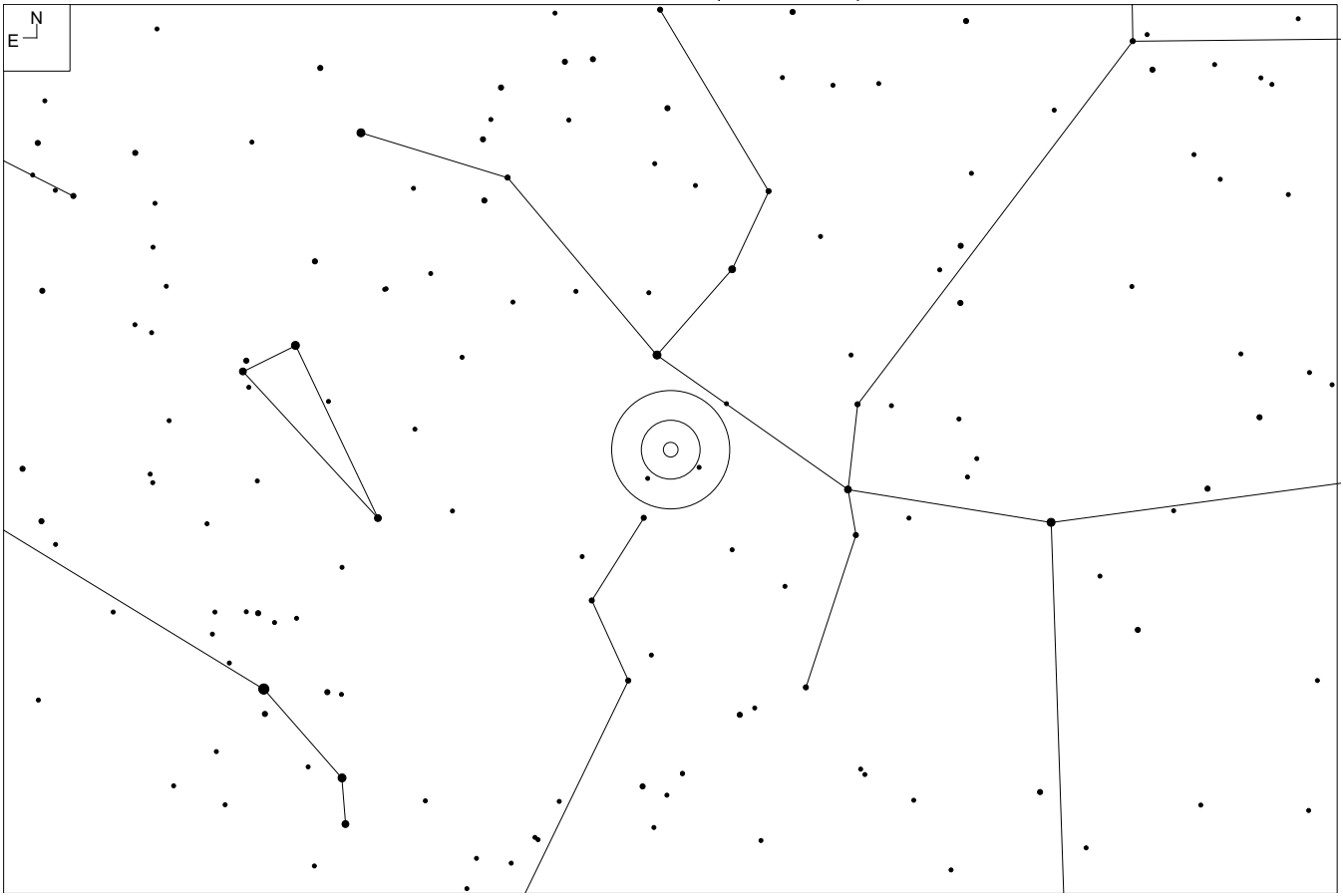


NGC 182 (Pisces)

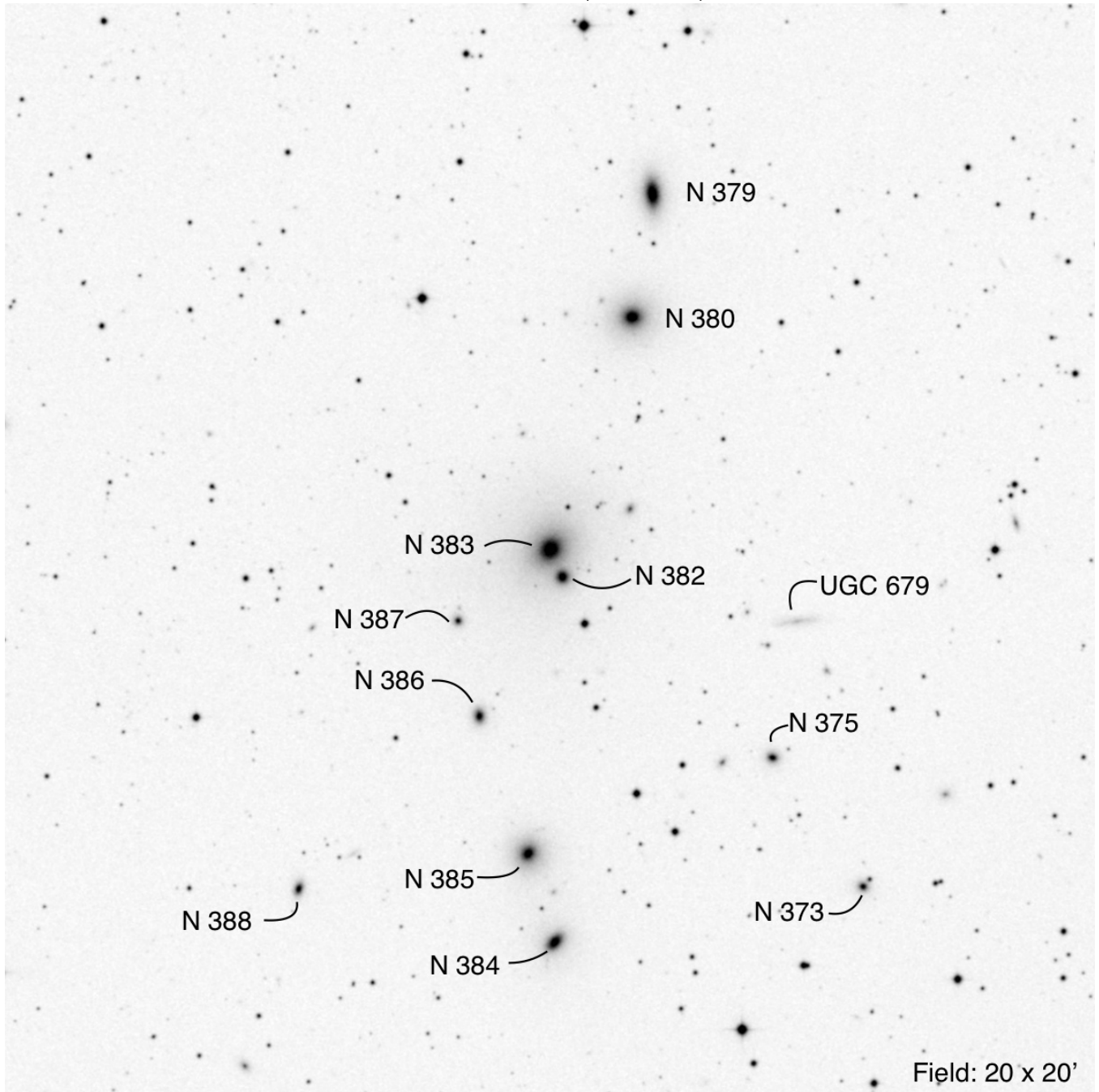


RA	Dec	Mag ₁	# of galaxies	iDSA
00 39 14.6	+03 08 11	12.4	13	63

NGC 383 (Pisces)



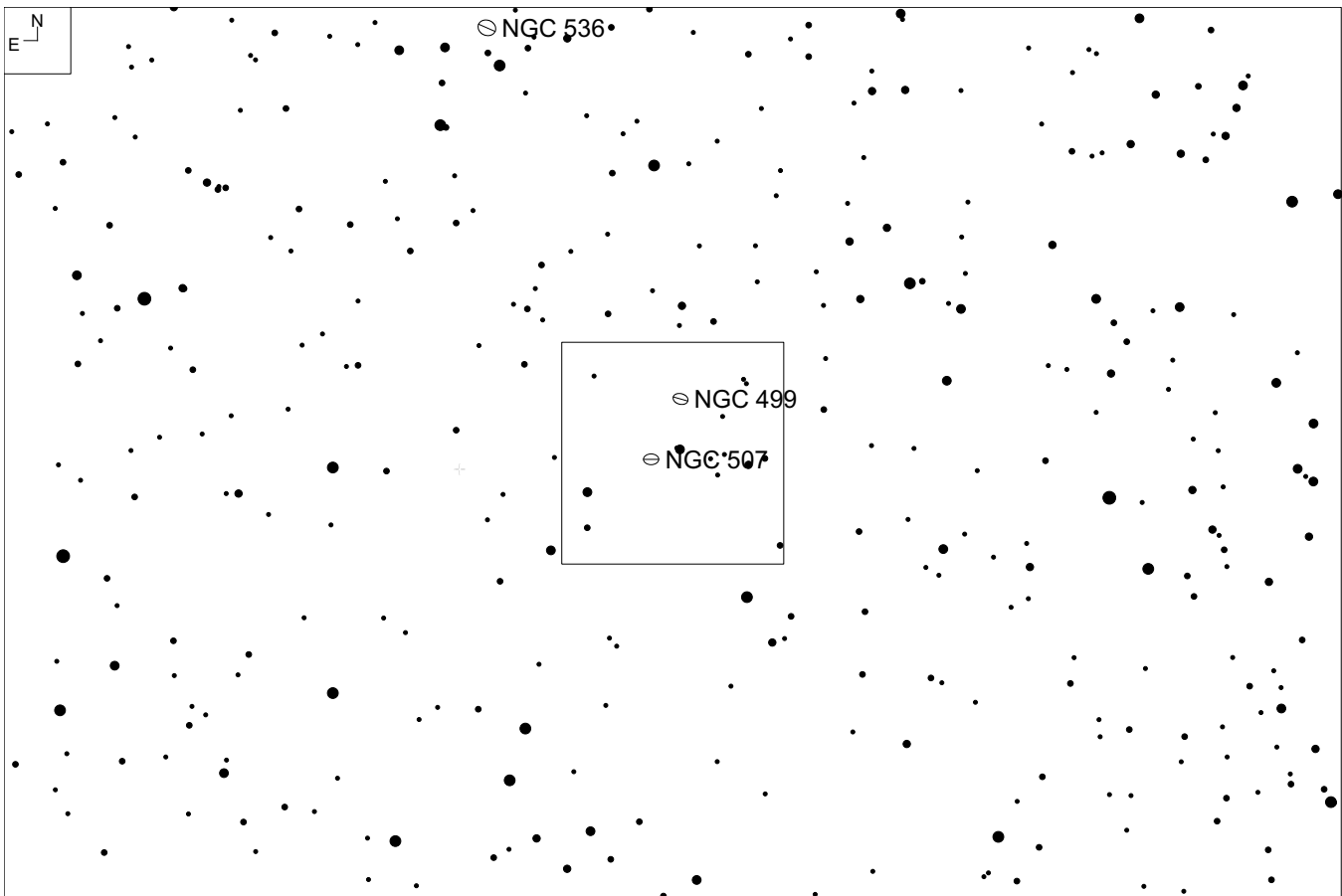
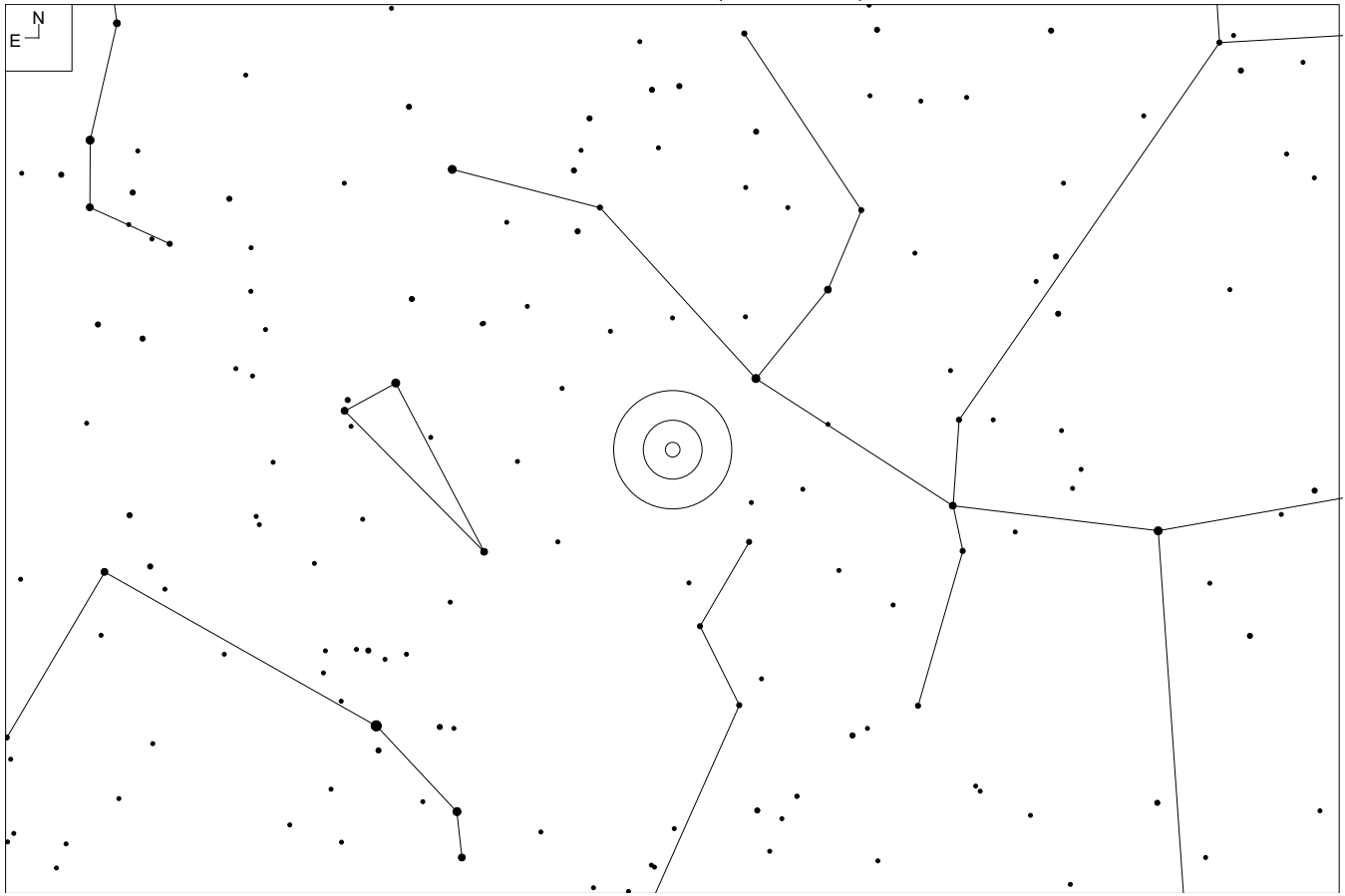
NGC 383 (Pisces)



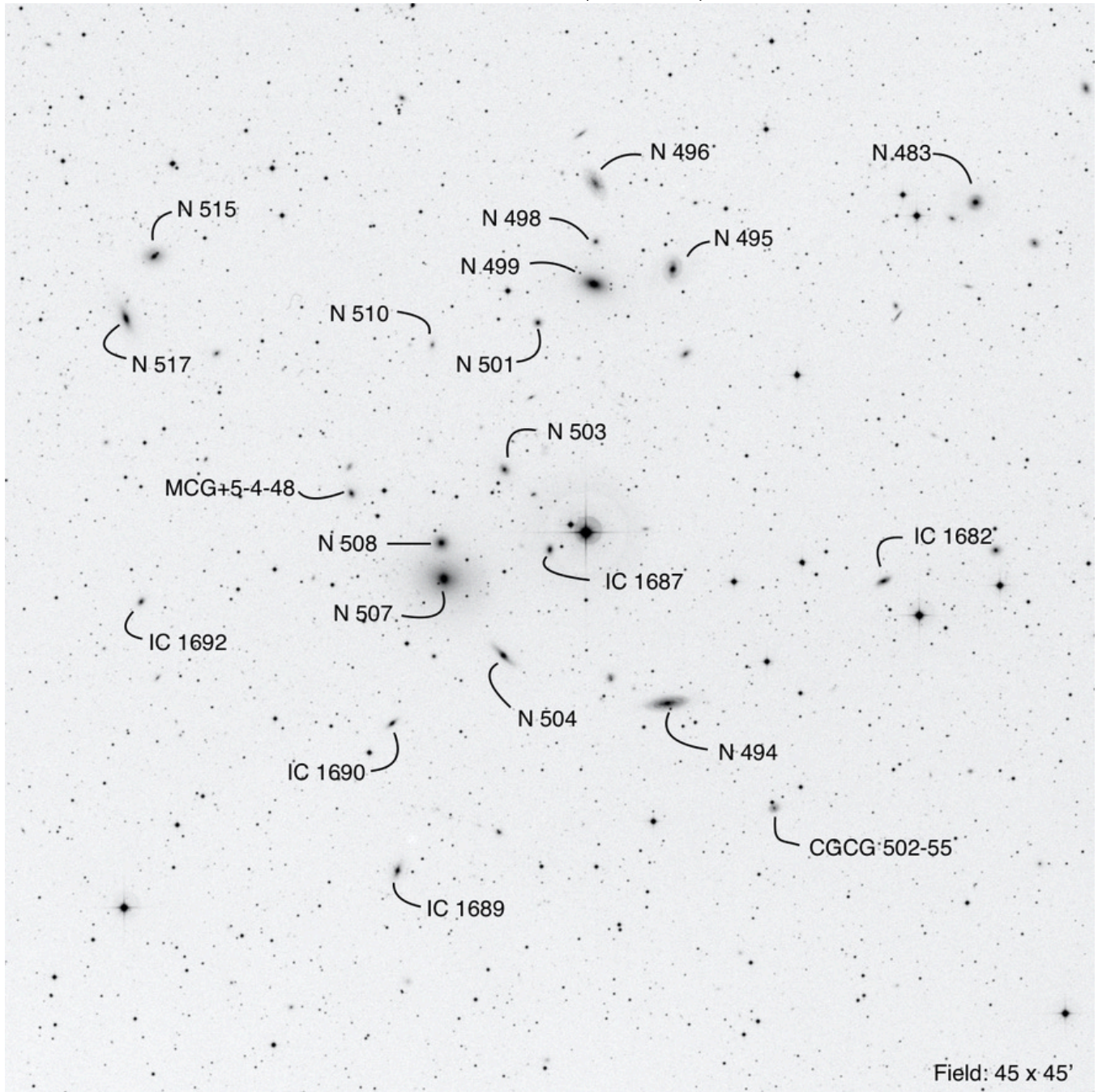
RA	Dec	Mag ₁	# of galaxies	iDSA
01 07 25.2	+32 24 47	12.4	12	D11

Pisces Chain

NGC 507 (Pisces)

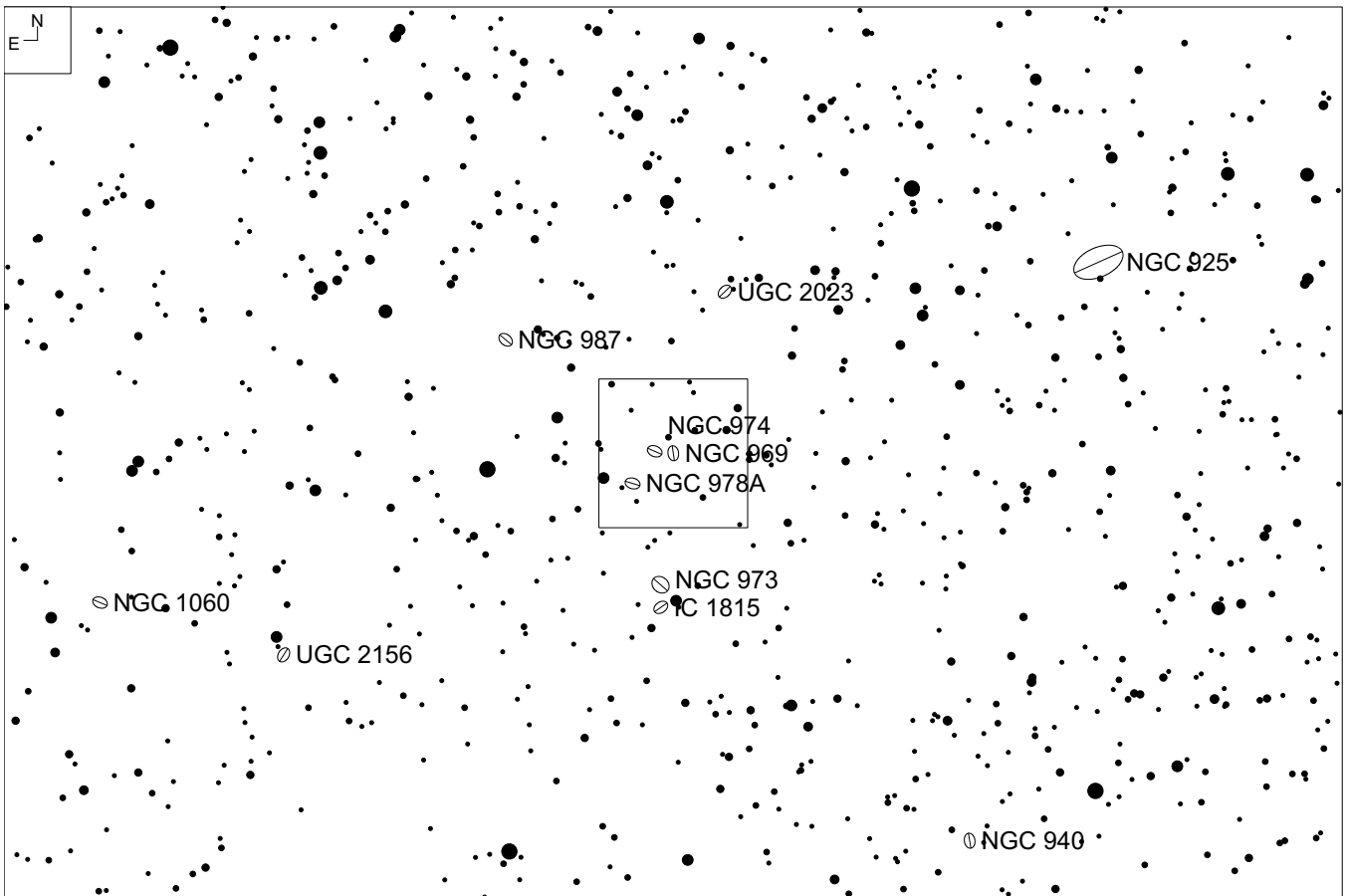
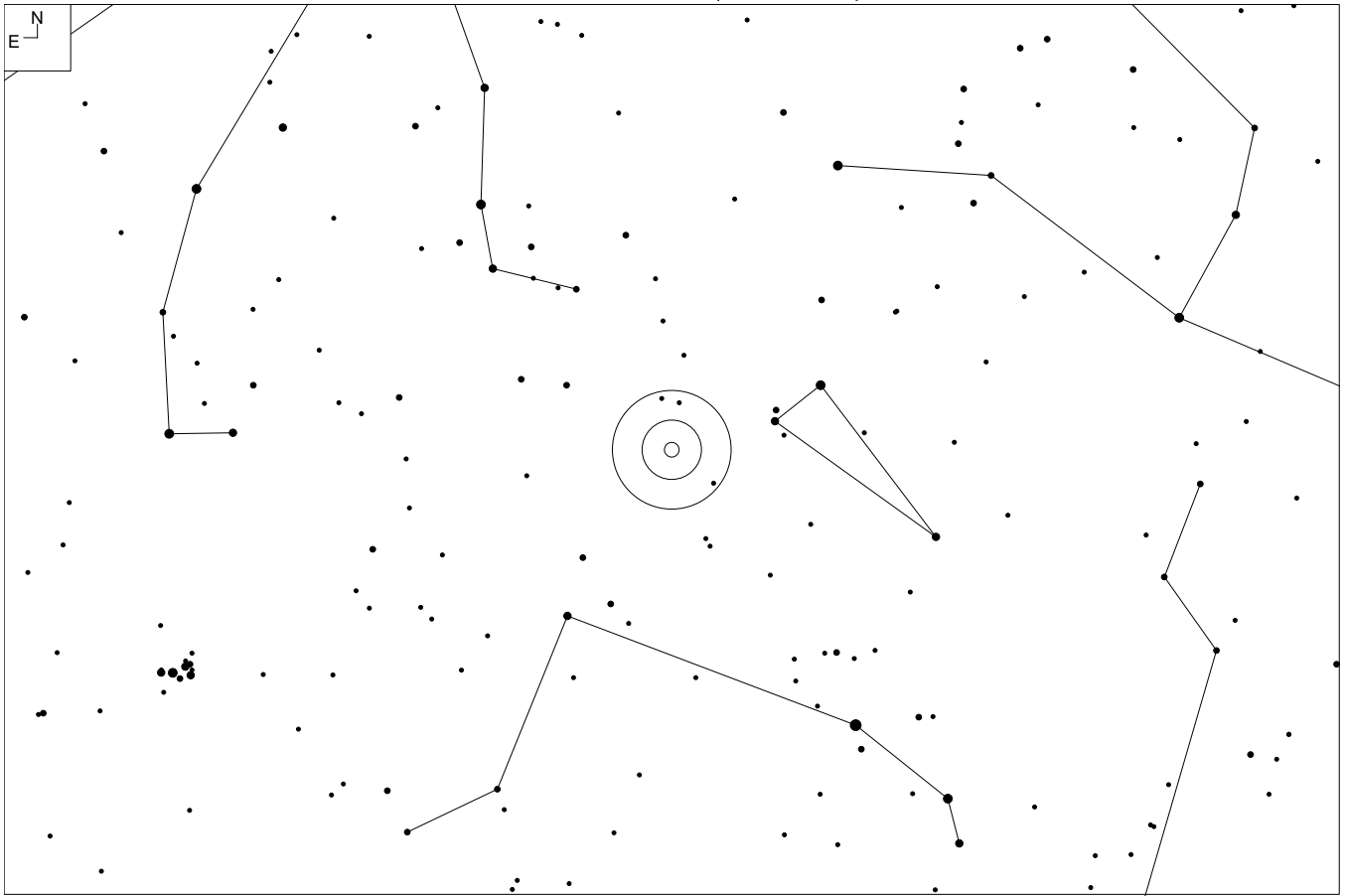


NGC 507 (Pisces)

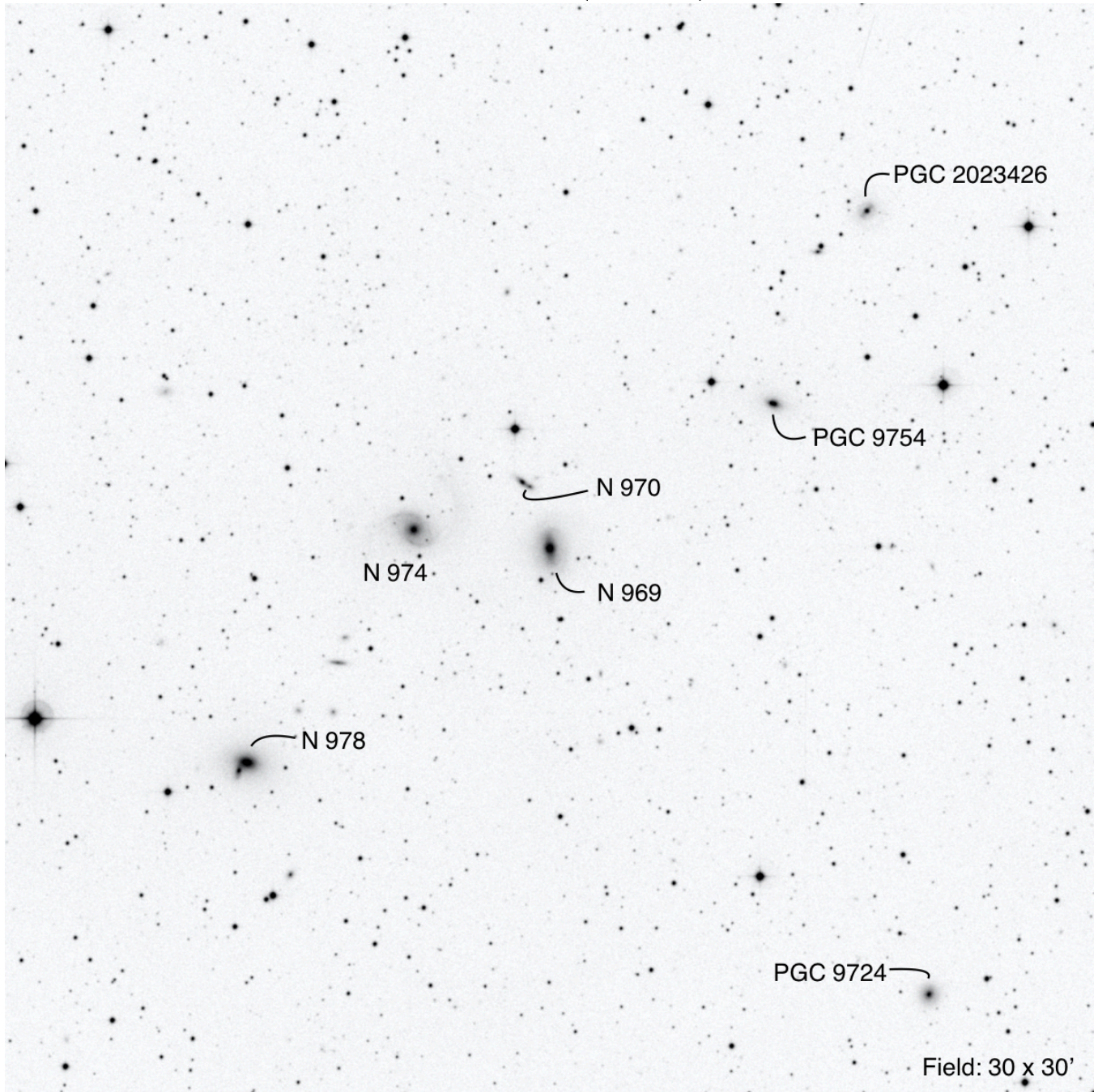


RA	Dec	Mag ₁	# of galaxies	iDSA
01 23 19.6	+33 16 39	11.2	21	39, D14

NGC 969 (Pisces)

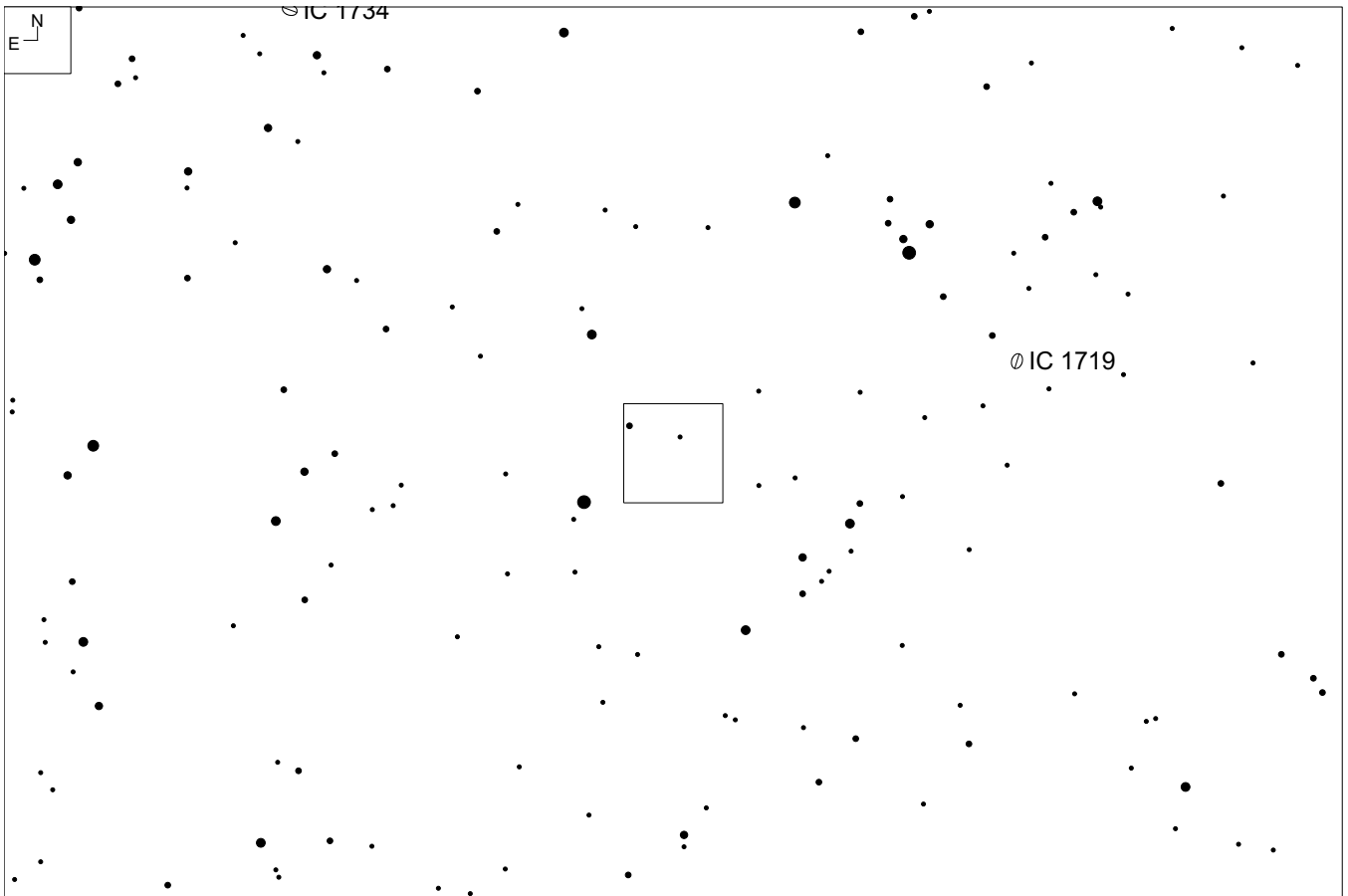
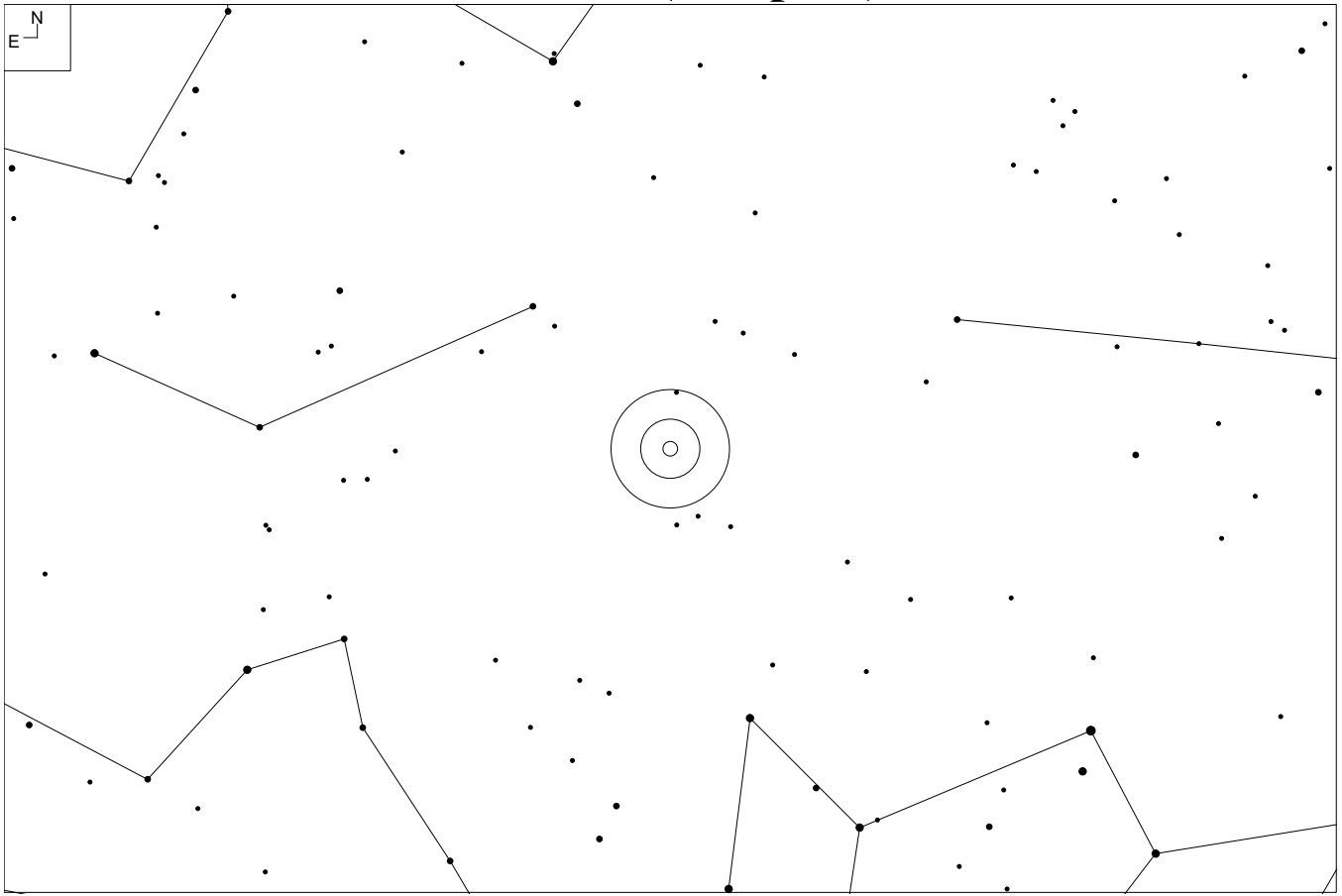


NGC 969 (Pisces)

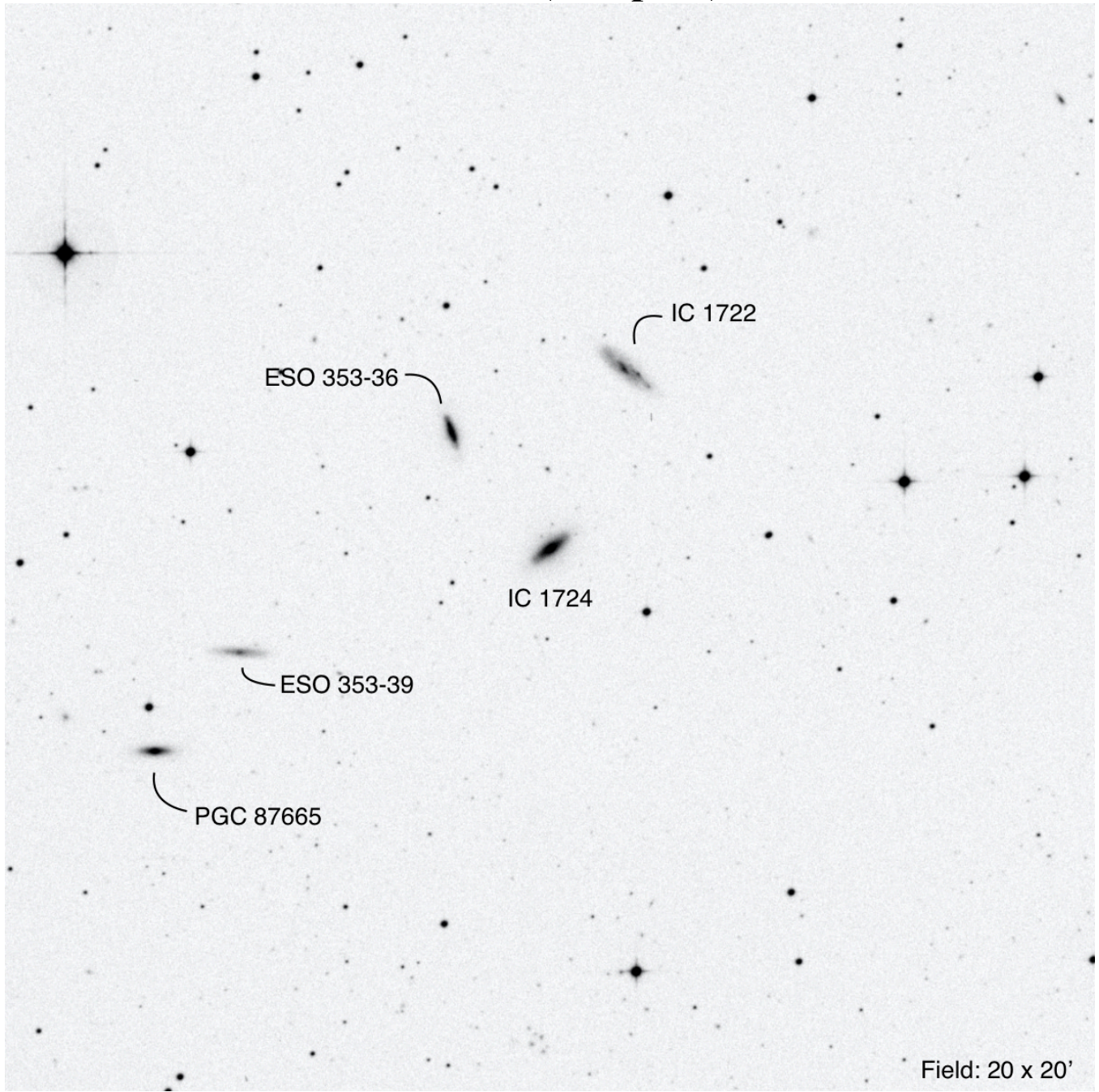


RA	Dec	Mag ₁	# of galaxies	iDSA
02 34 07.9	+32 56 50	12.4	7	38

IC 1724 (Sculptor)

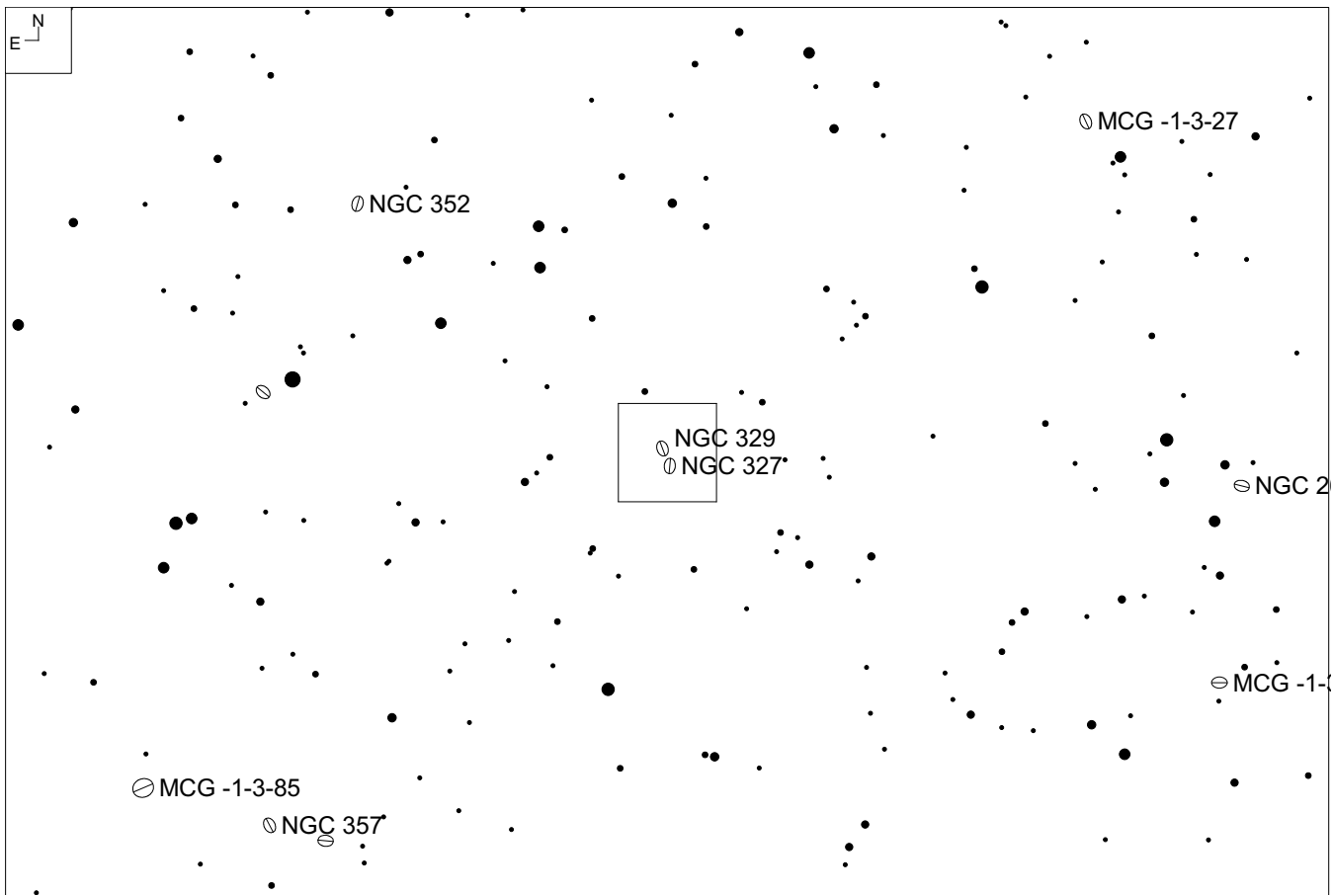
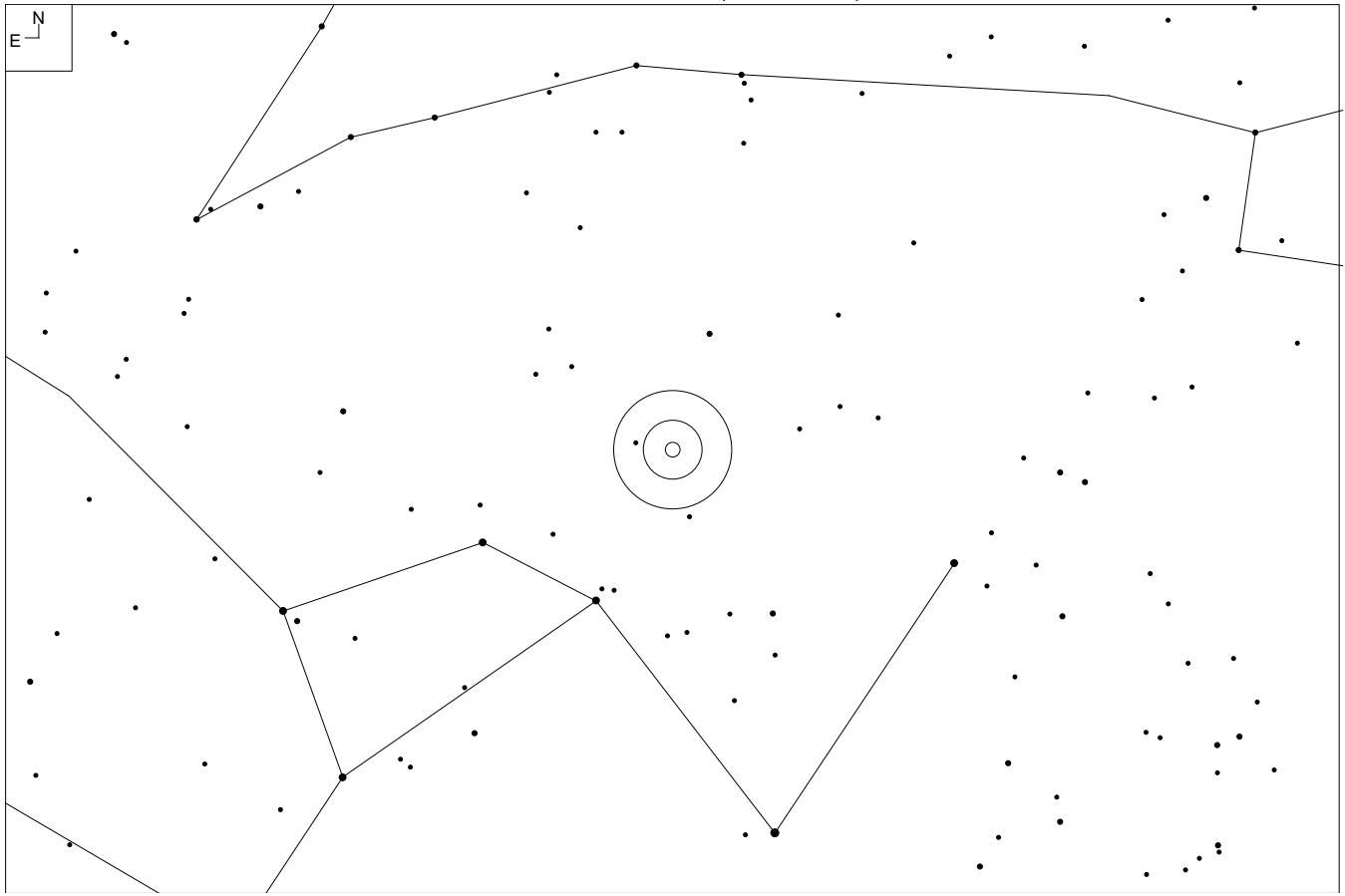


IC 1724 (Sculptor)

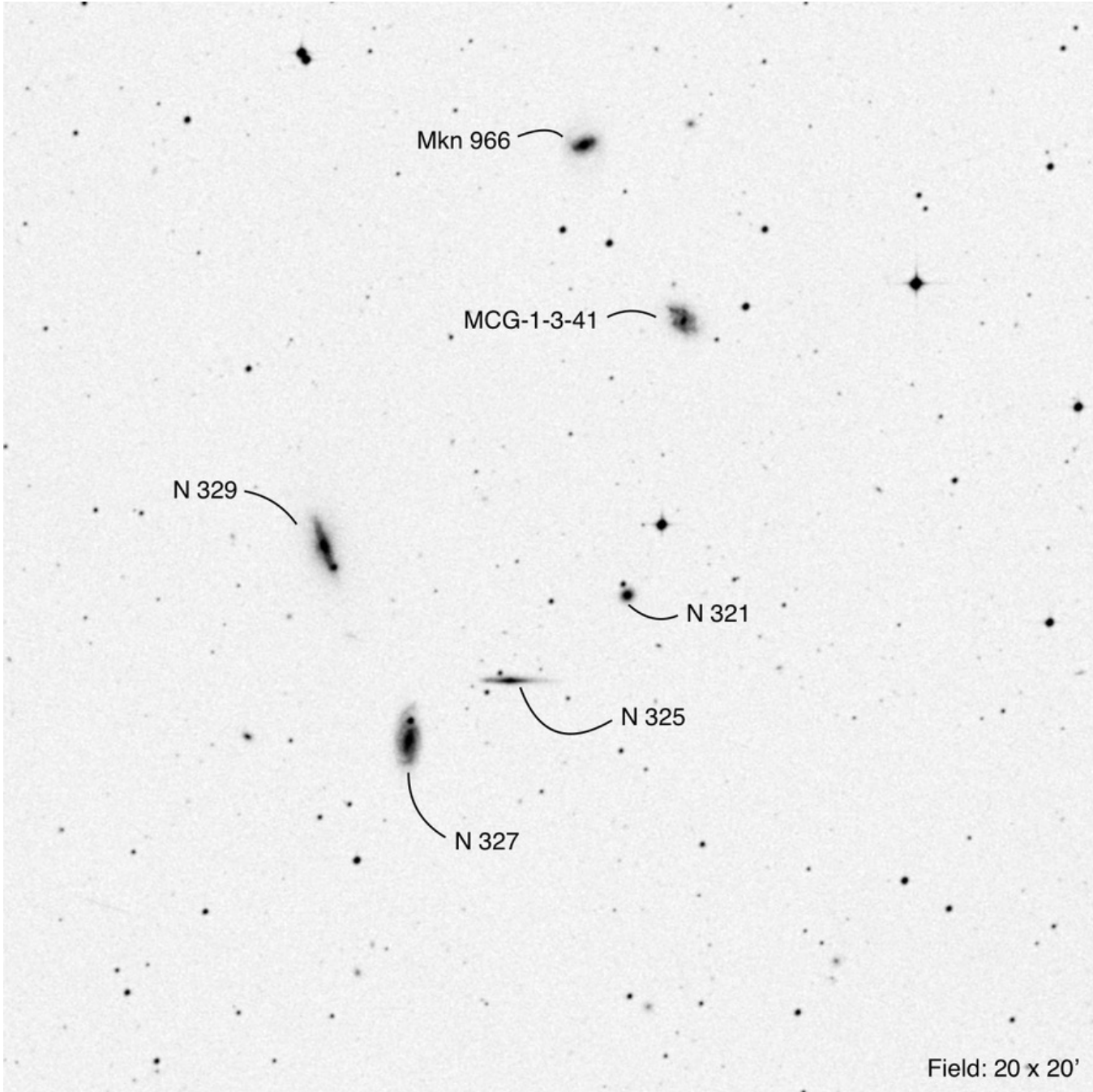


RA	Dec	Mag ₁	# of galaxies	iDSA
01 43 10.0	-34 14 31	14.1	5	87

NGC 329 (Cetus)

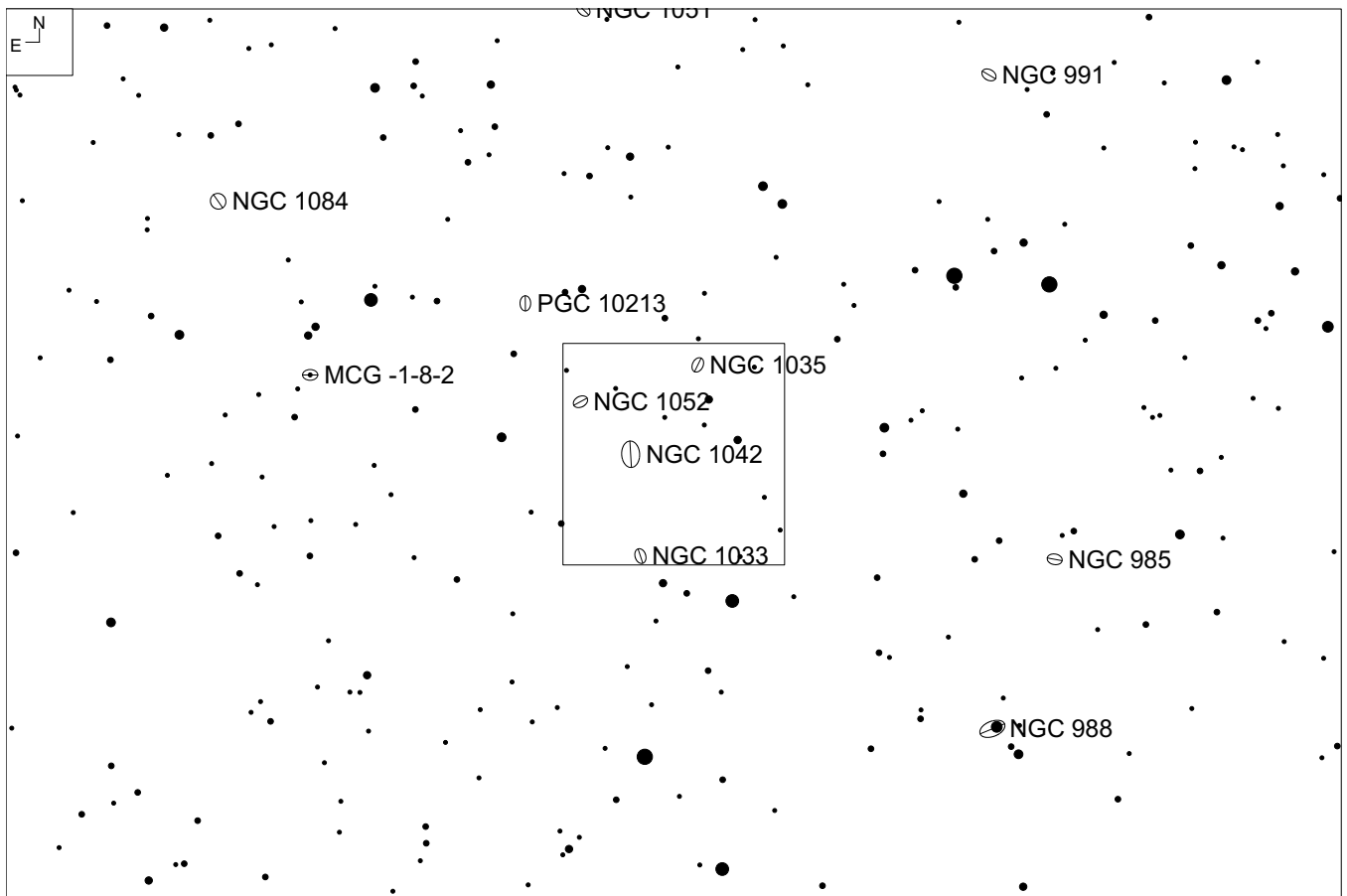
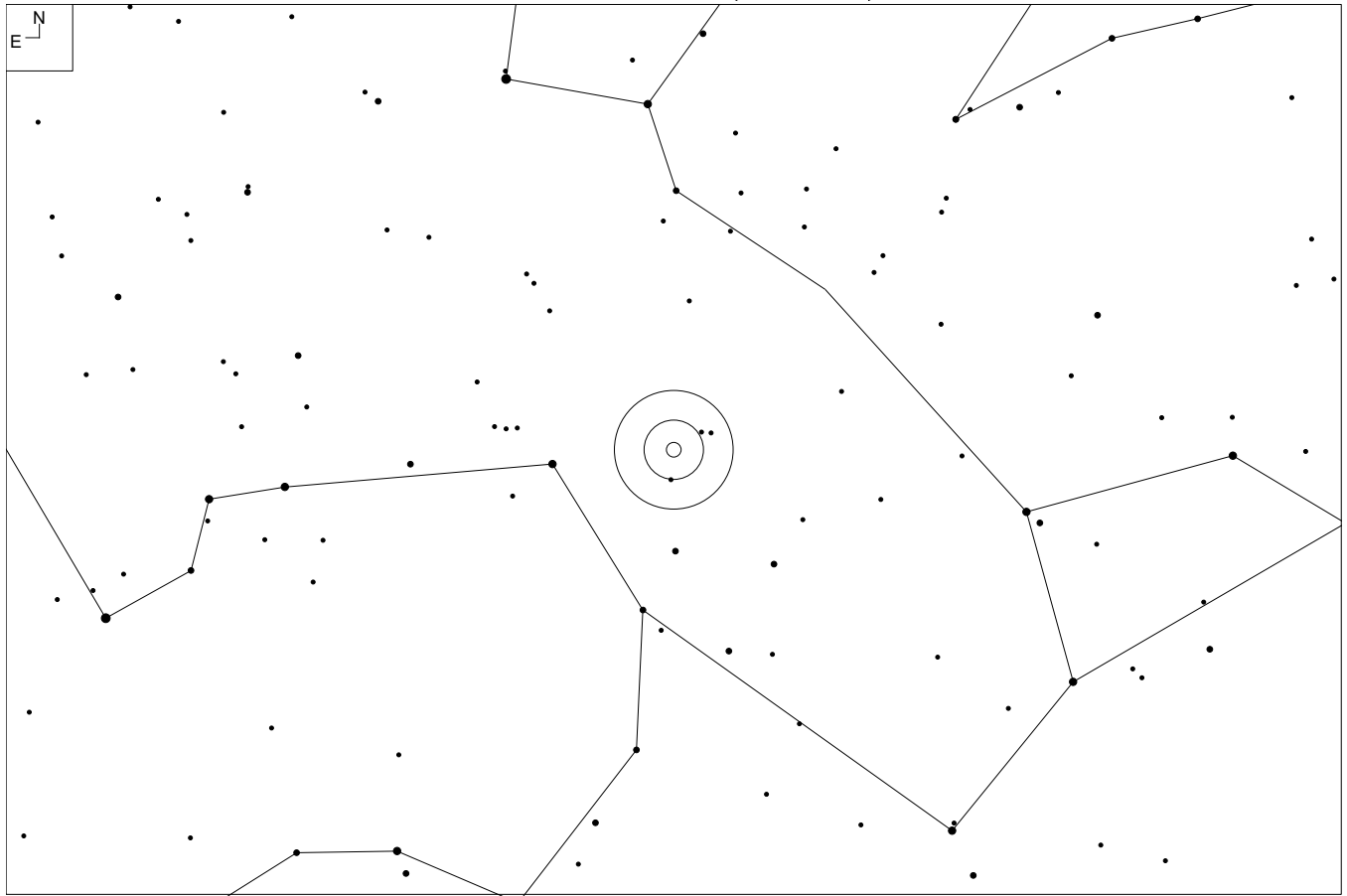


NGC 329 (Cetus)

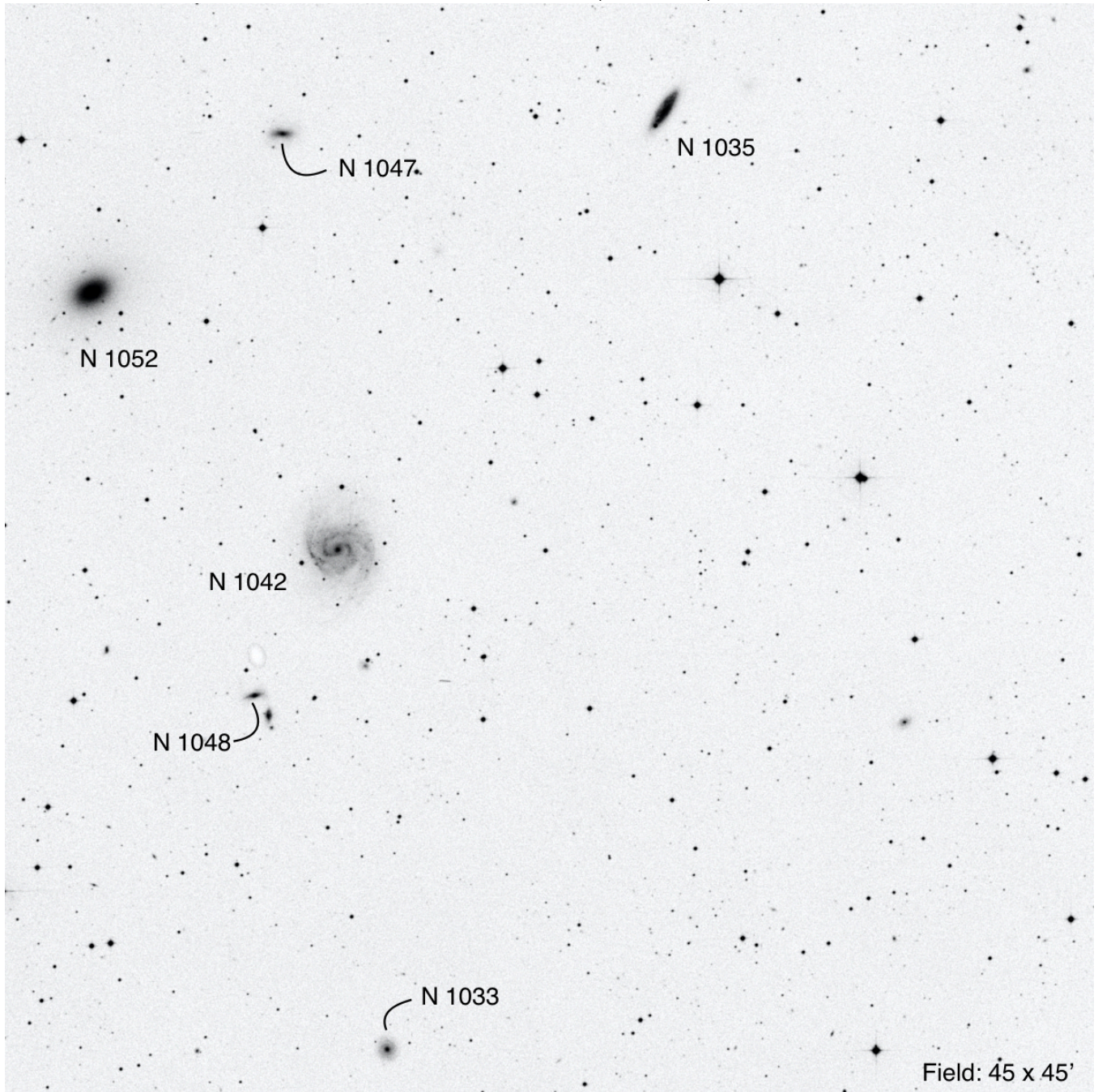


RA	Dec	Mag ₁	# of galaxies	iDSA
00 58 01.5	-05 04 16	13.3	6	63

NGC 1052 (Cetus)

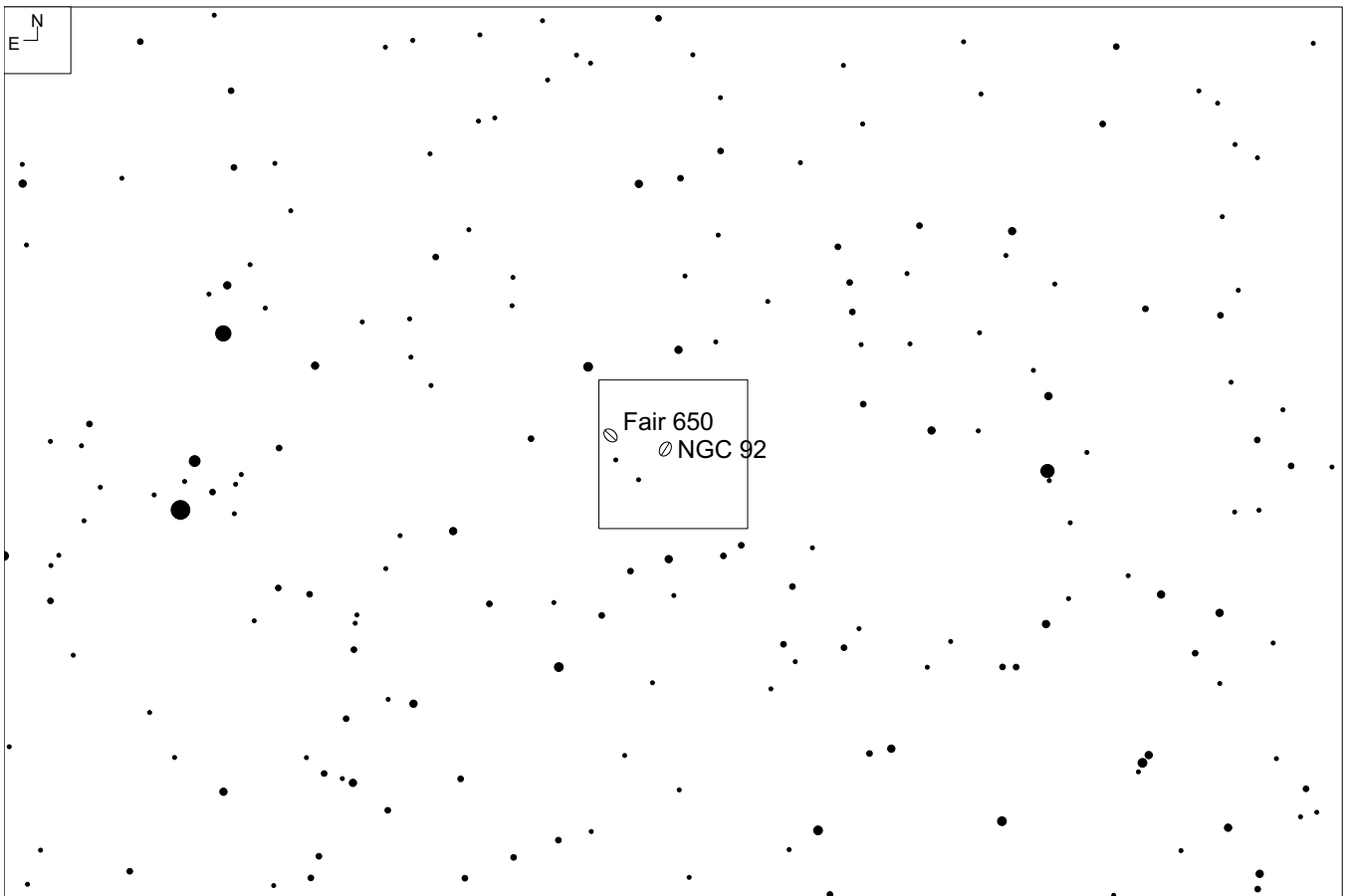
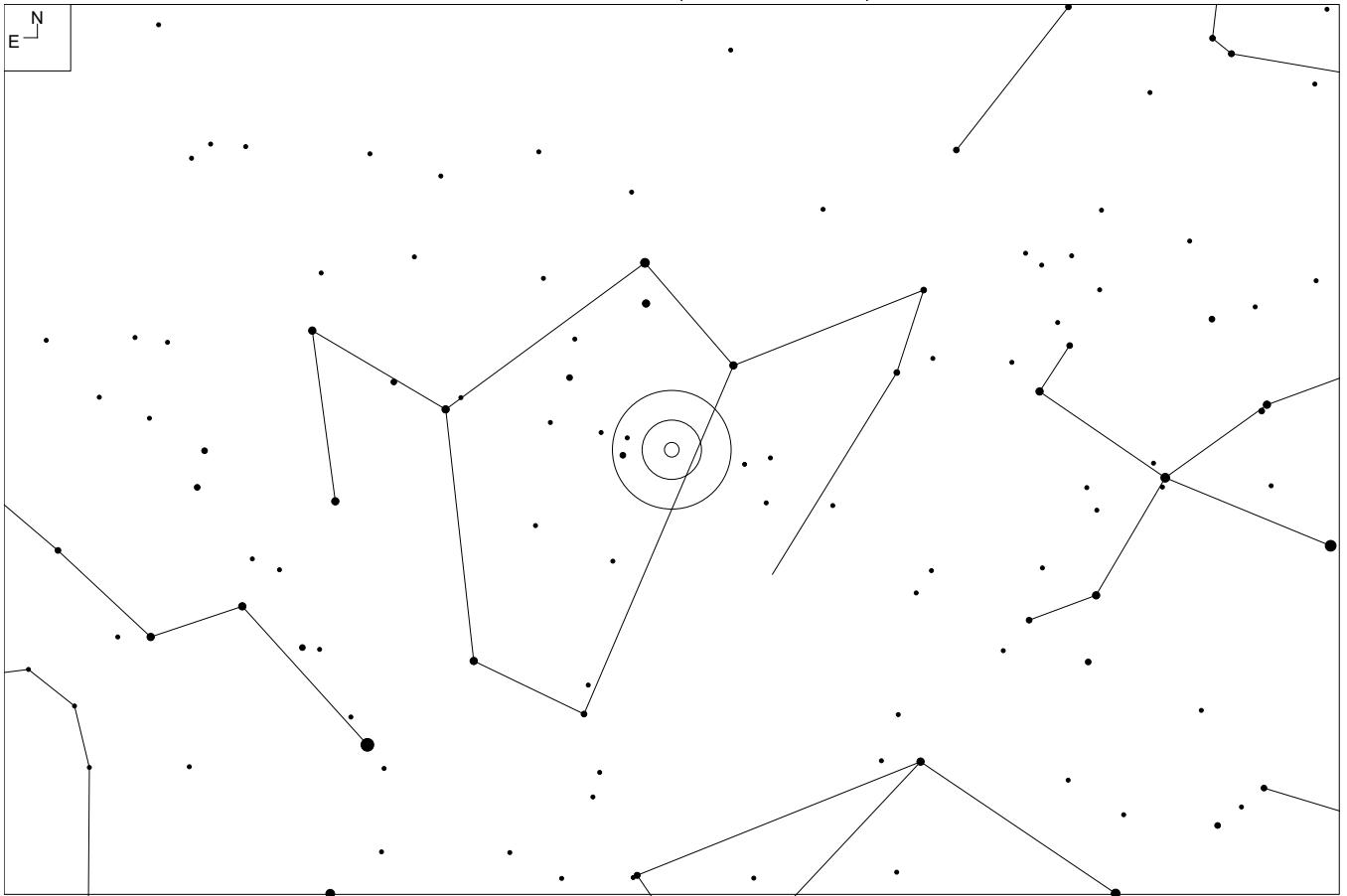


NGC 1052 (Cetus)

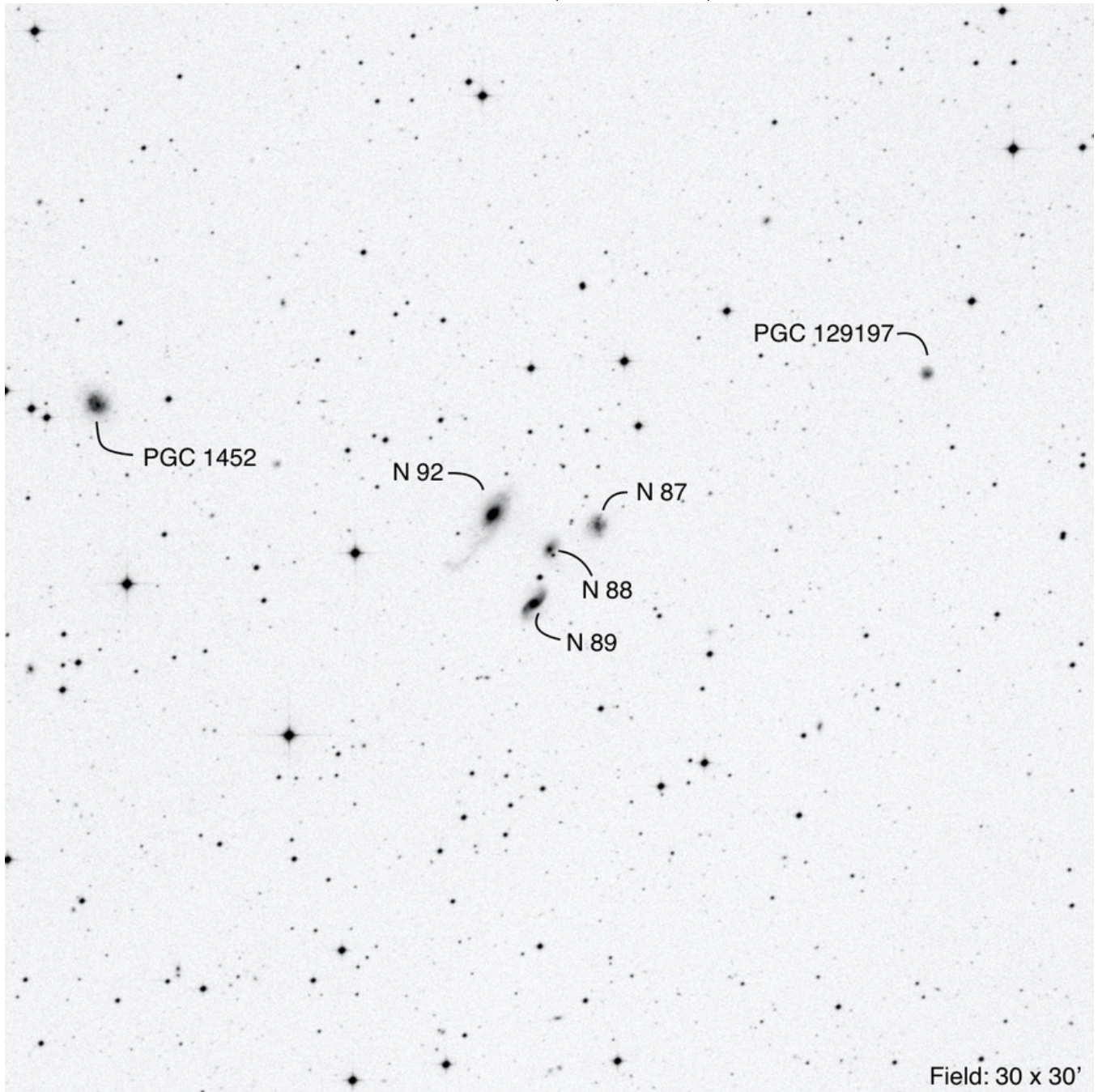


RA	Dec	Mag ₁	# of galaxies	iDSA
02 39 48.7	-08 26 01	10.5	6	62, 74

NGC 88 (Phoenix)

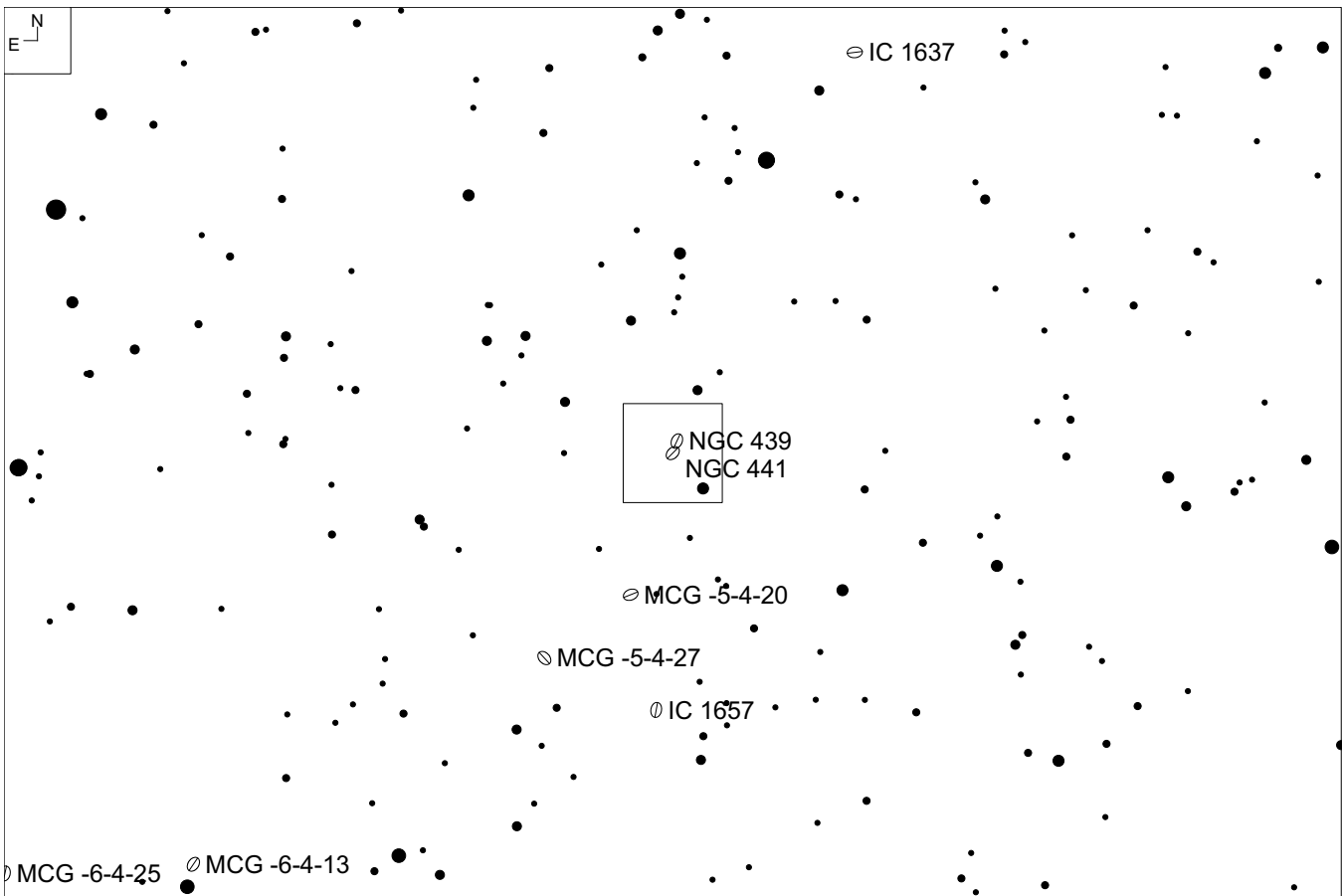
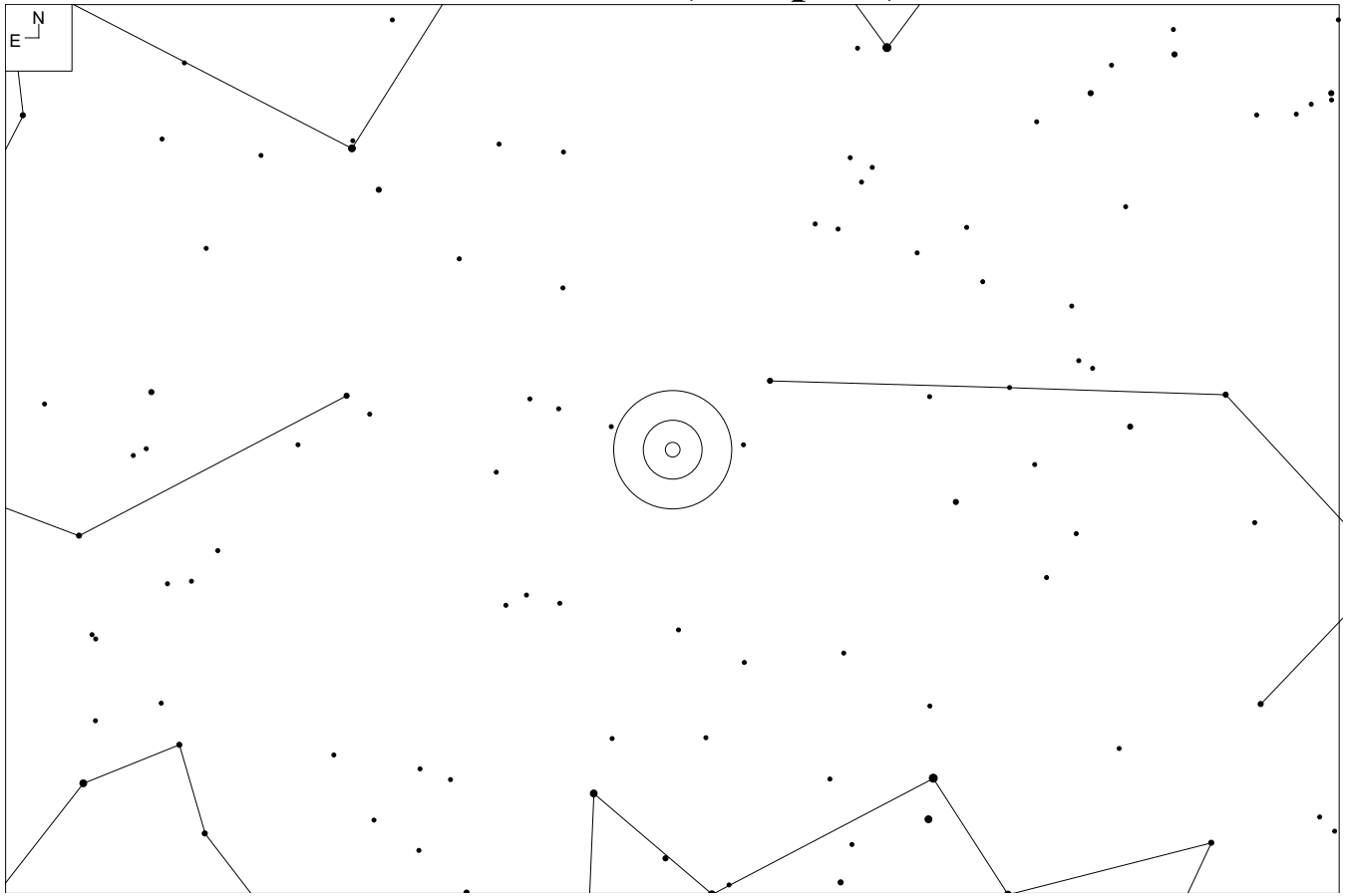


NGC 88 (Phoenix)

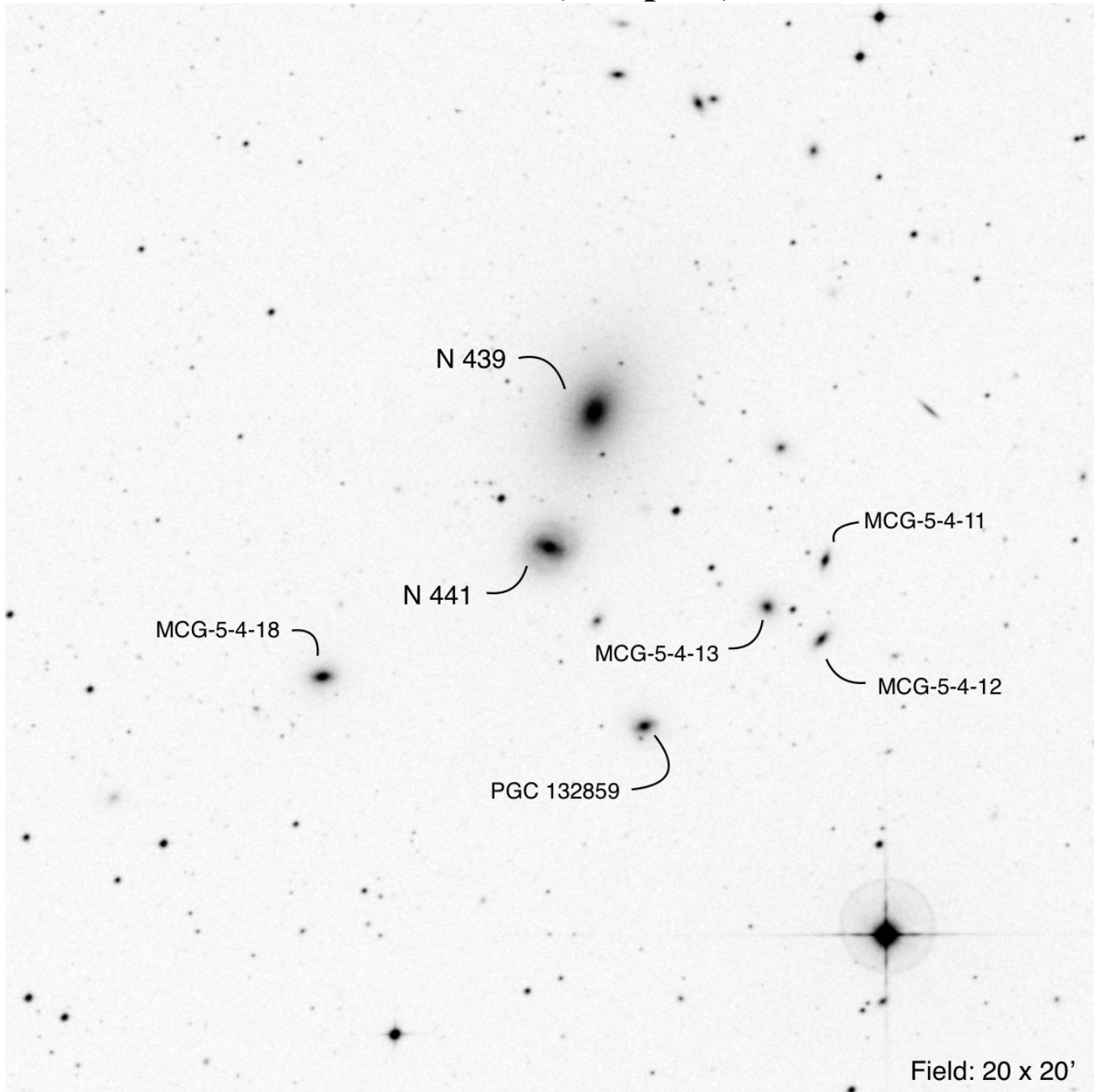


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
Robert's Quartet	00 21 22.0	-48 38 24	13.7	6	88, 99

NGC 439 (Sculptor)

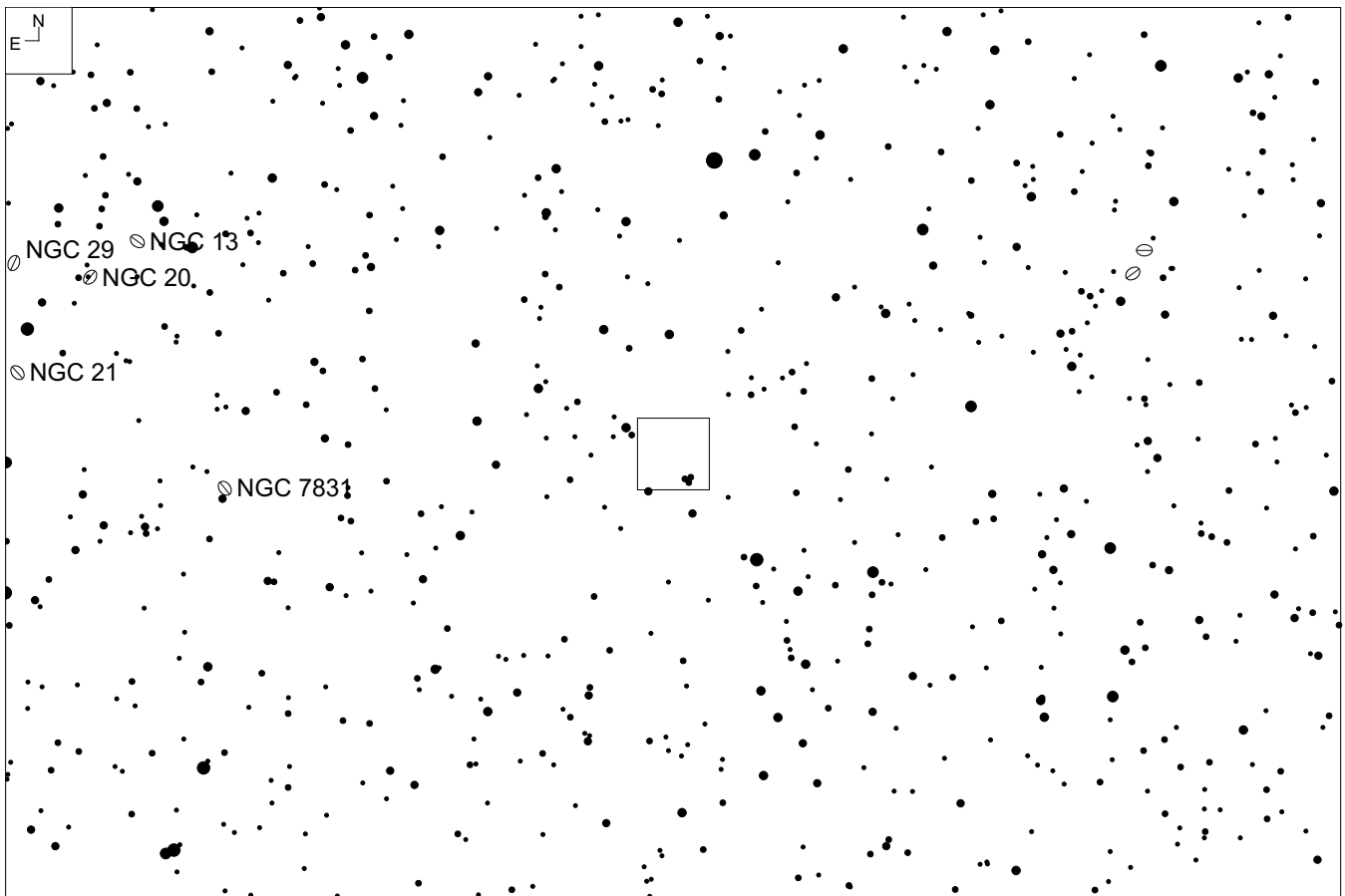
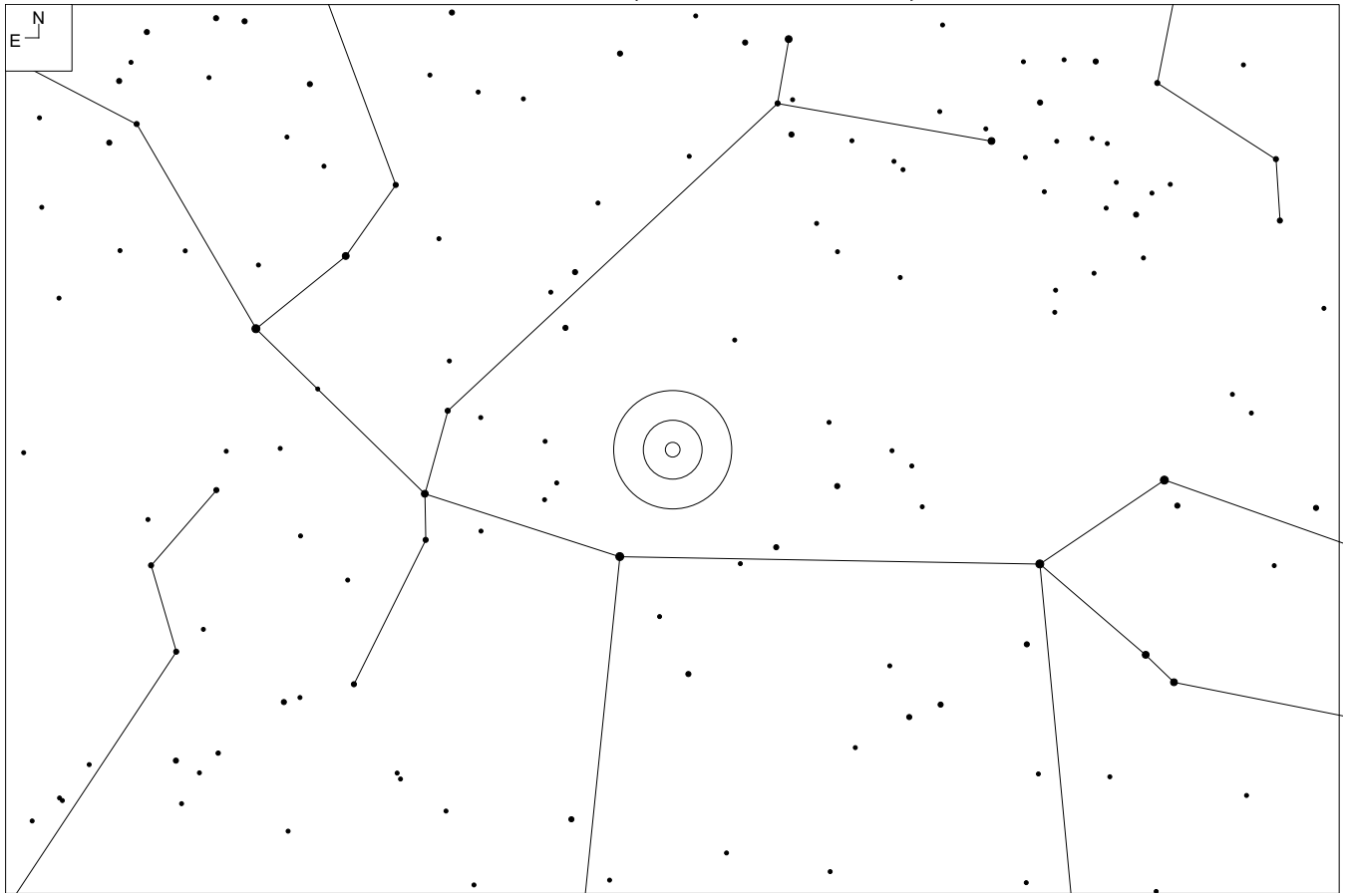


NGC 439 (Sculptor)

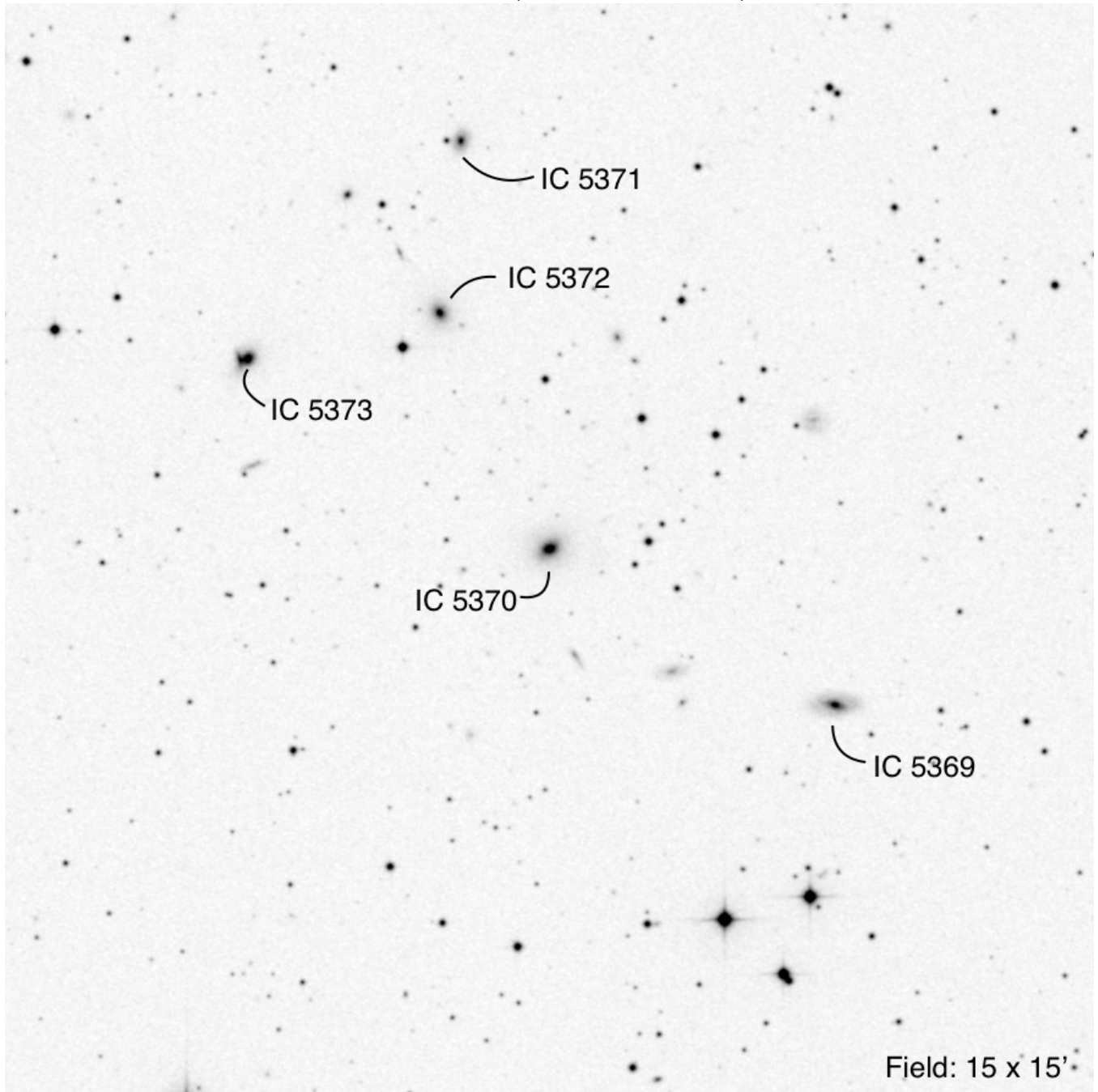


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AGC 141	01 13 47.3	-31 44 50	11.4	7	87

IC 5370 (Andromeda)

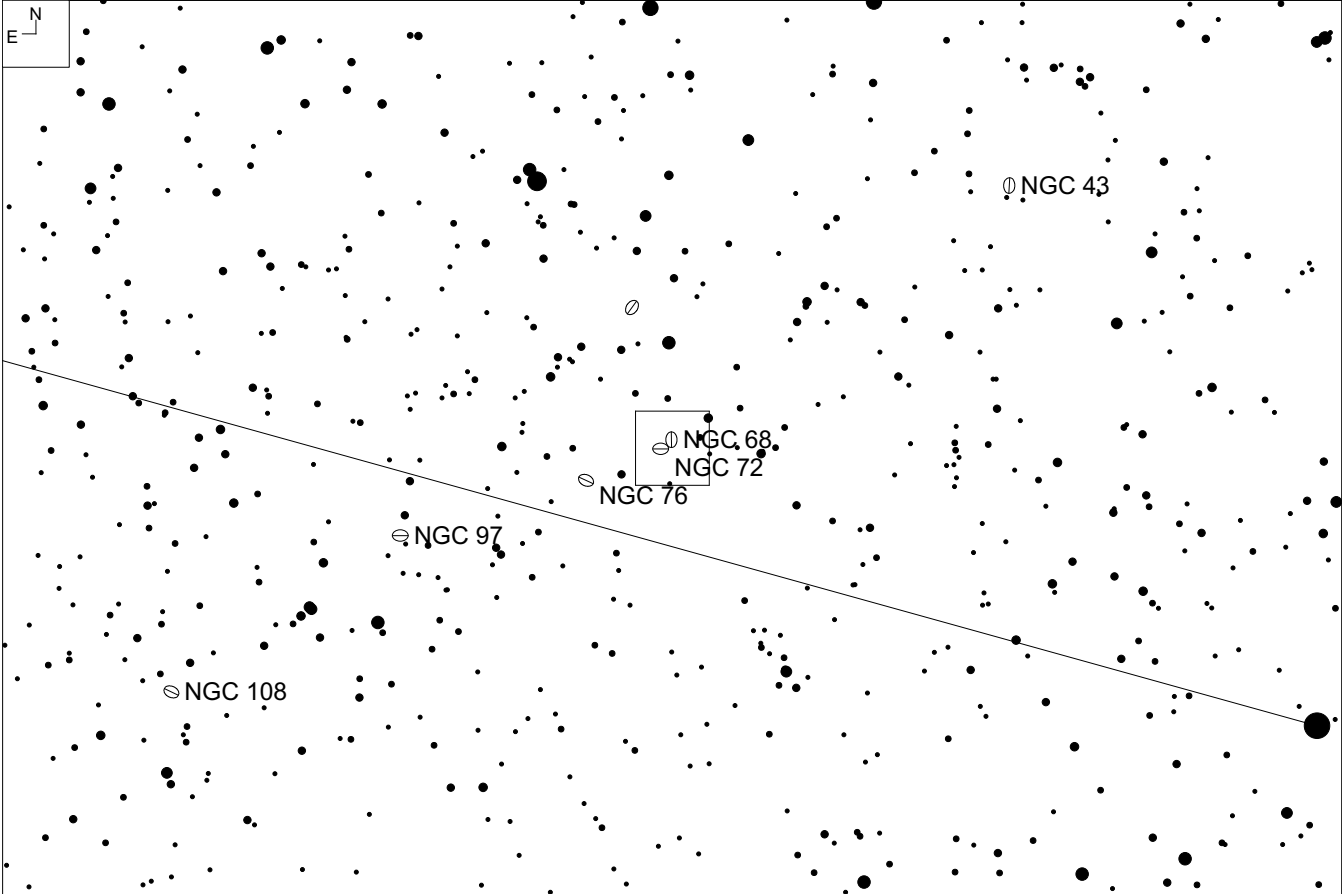
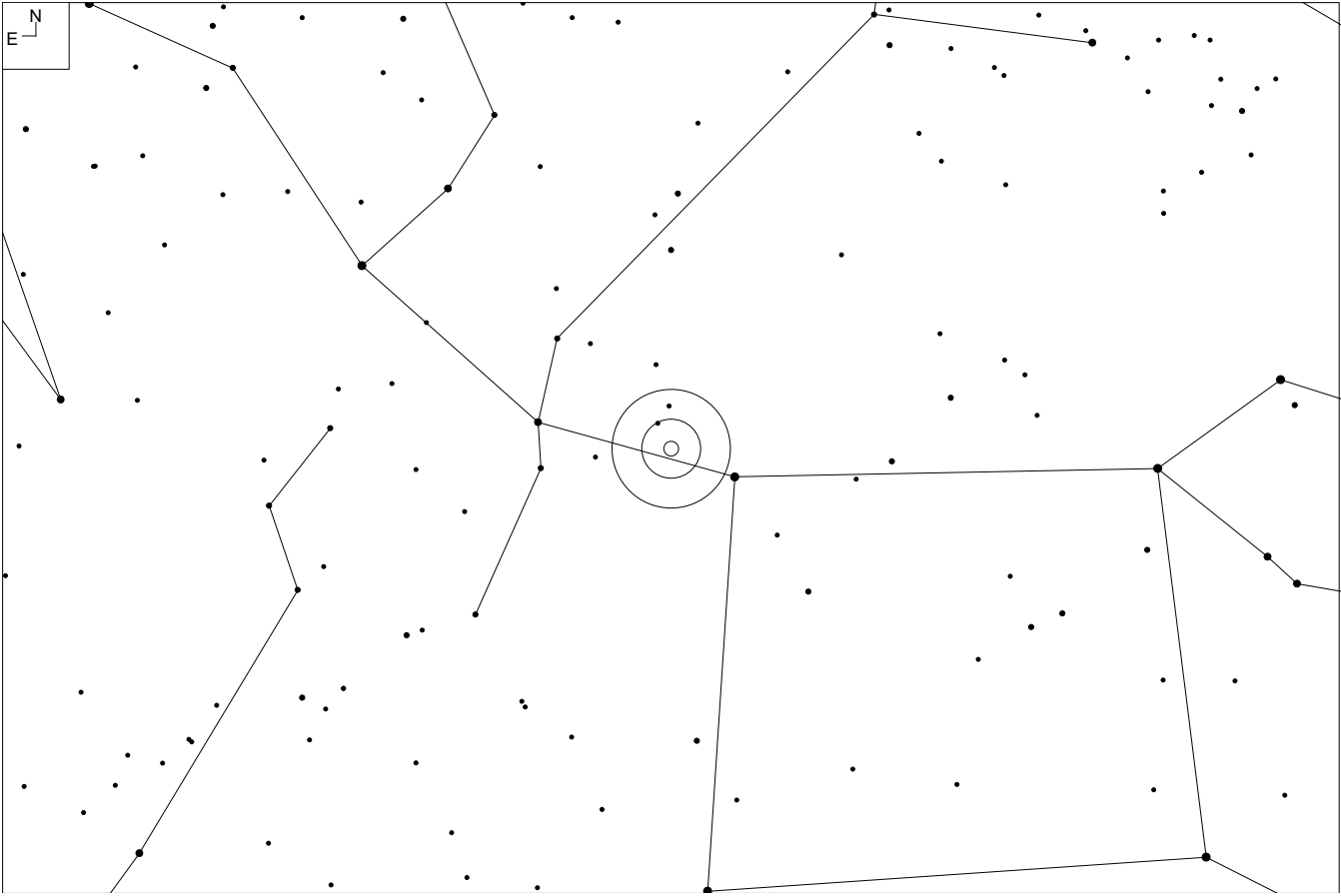


IC 5370 (Andromeda)

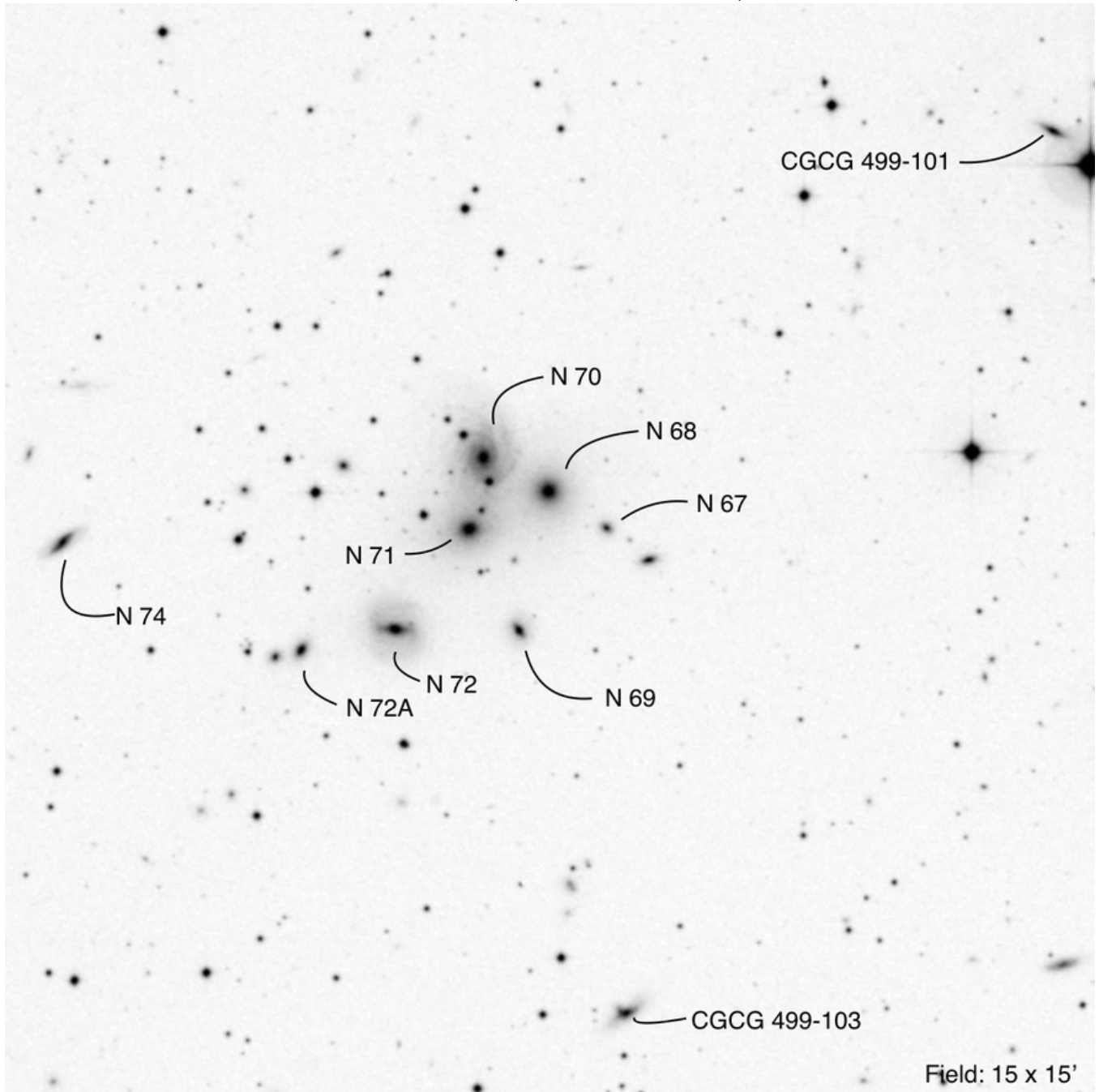


RA	Dec	Mag ₁	# of galaxies	iDSA
00 00 09.2	+32 44 18	14.9	5	28, 39

NGC 68 (Andromeda)

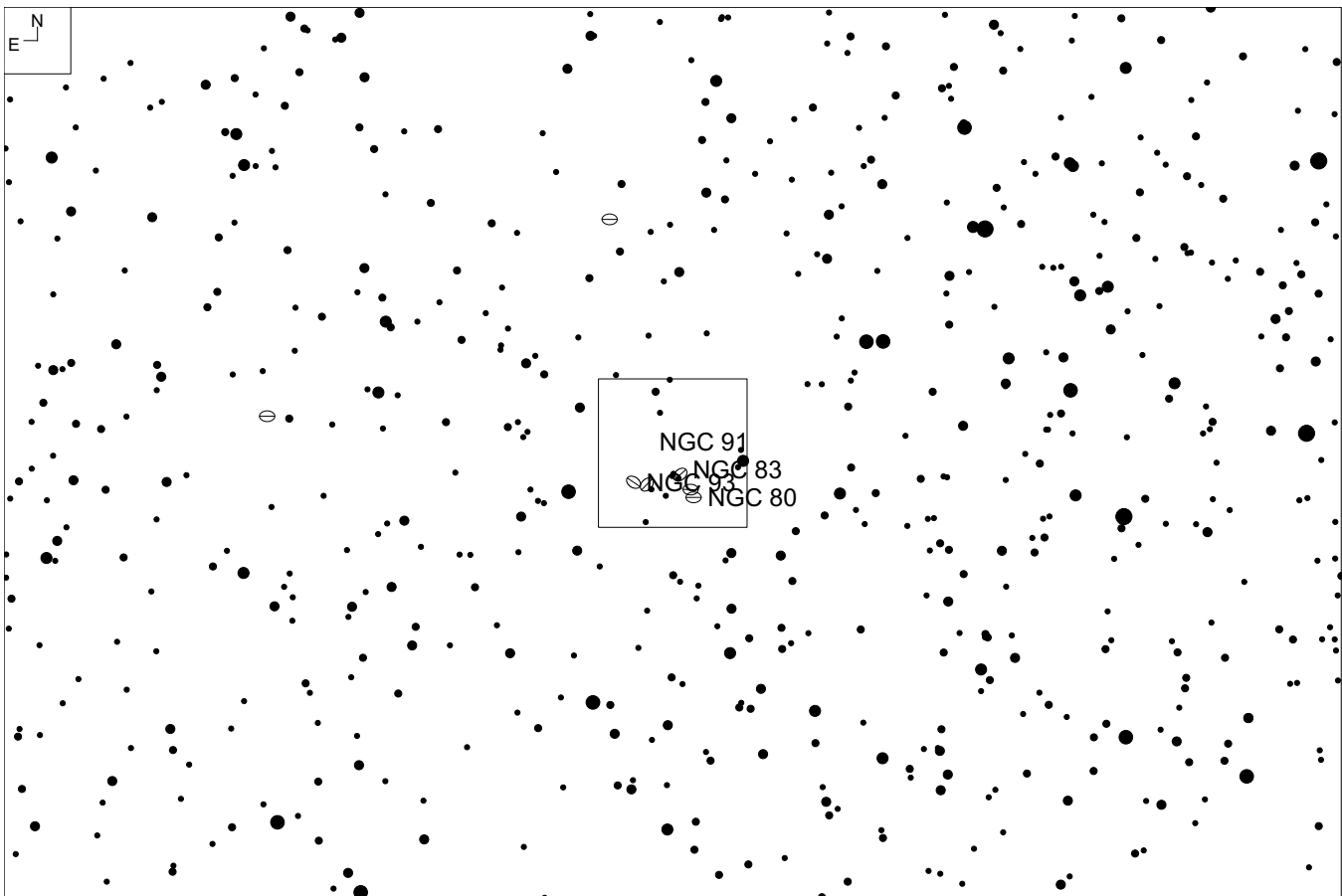
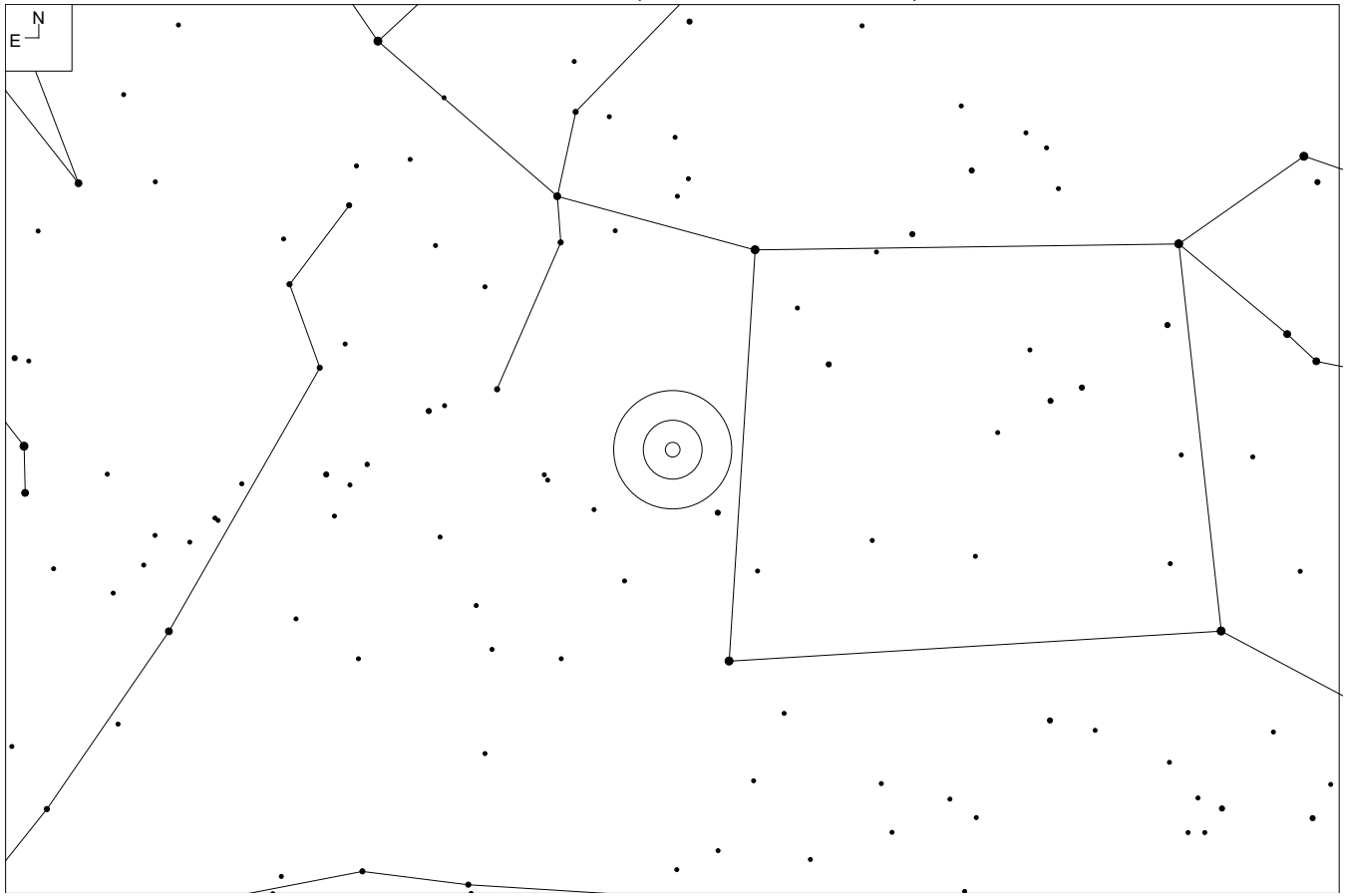


NGC 68 (Andromeda)

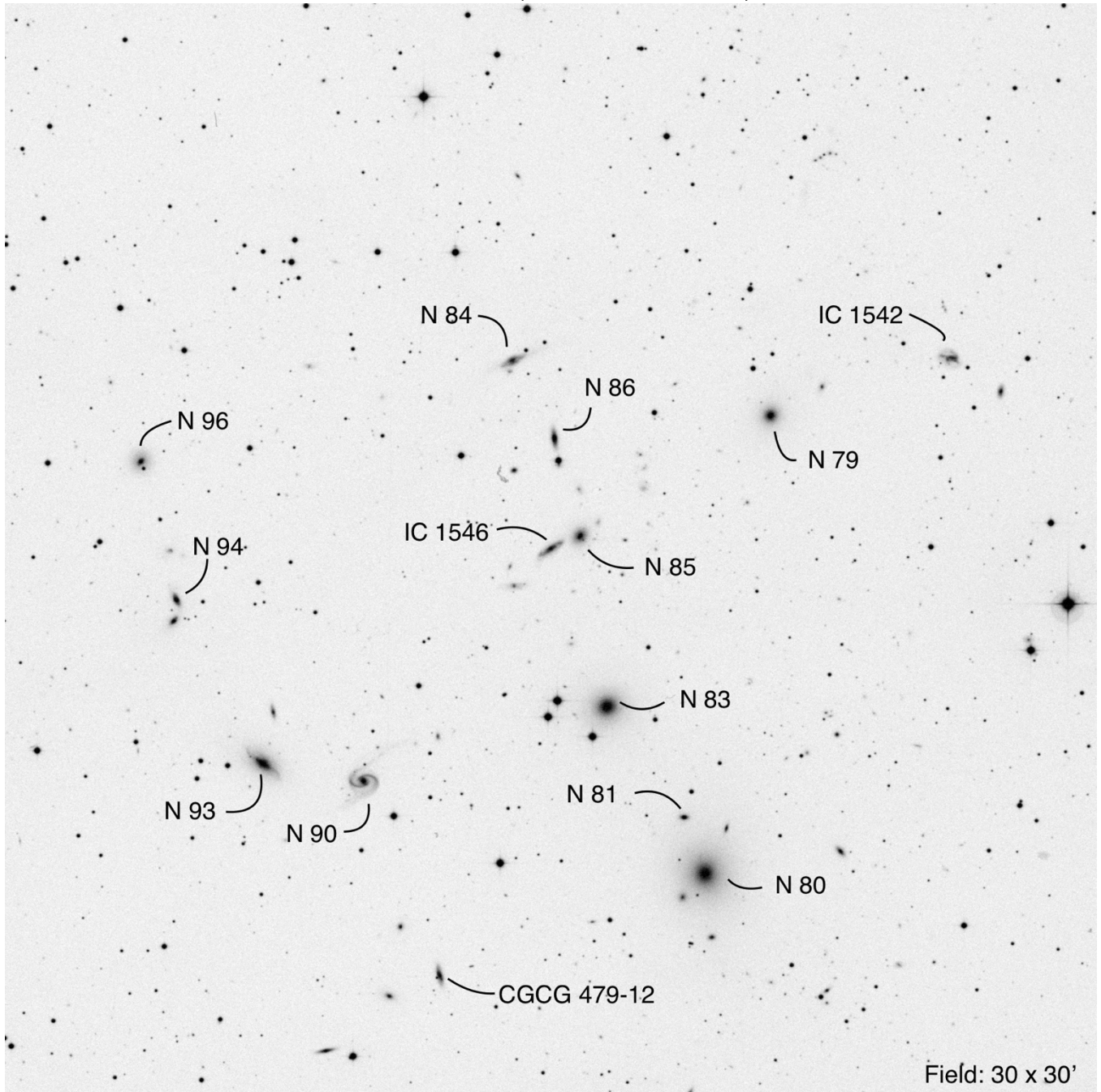


RA	Dec	Mag ₁	# of galaxies	iDSA
00 18 18.5	+30 04 18	12.9	9	39

NGC 80 (Andromeda)



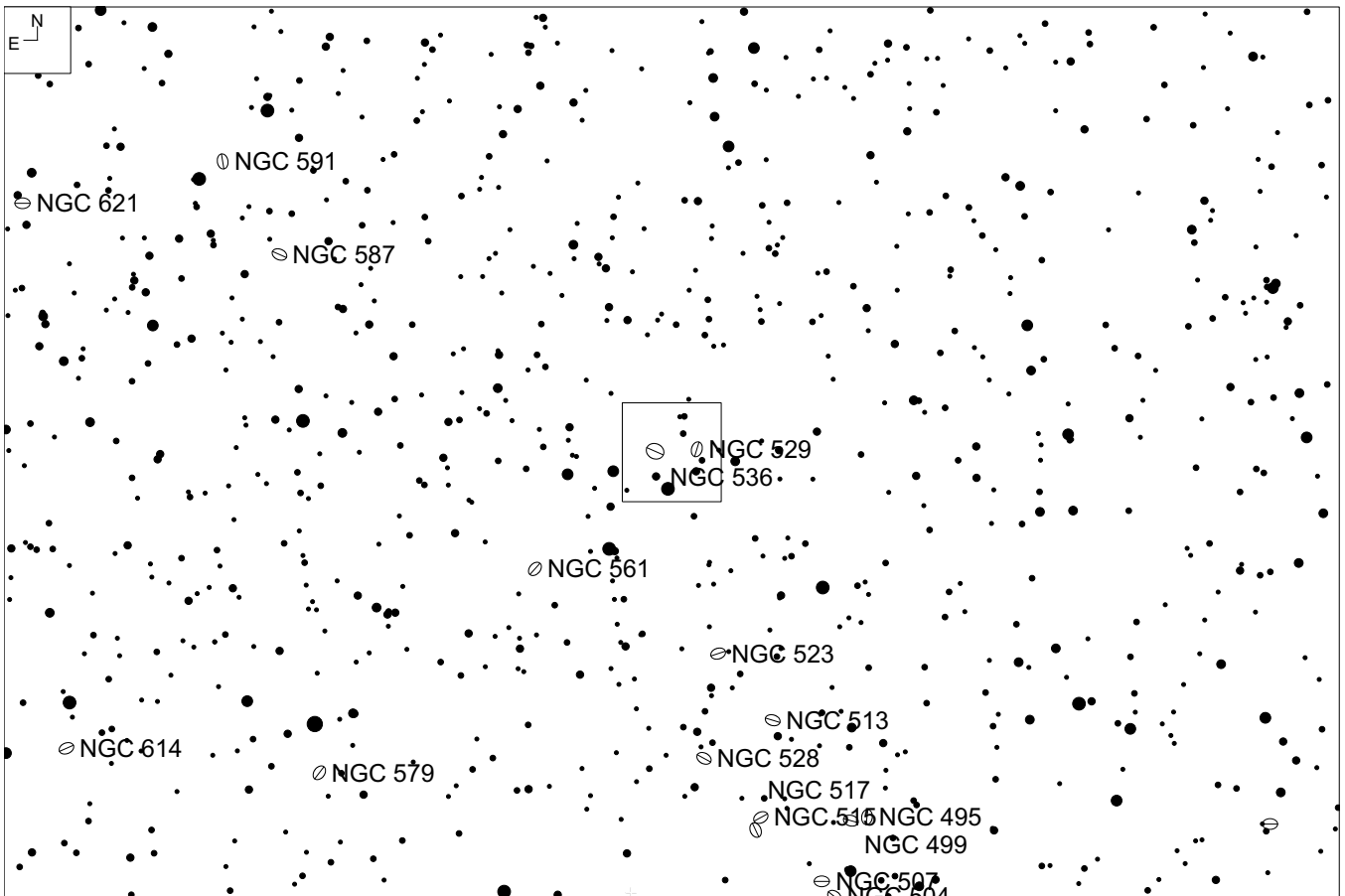
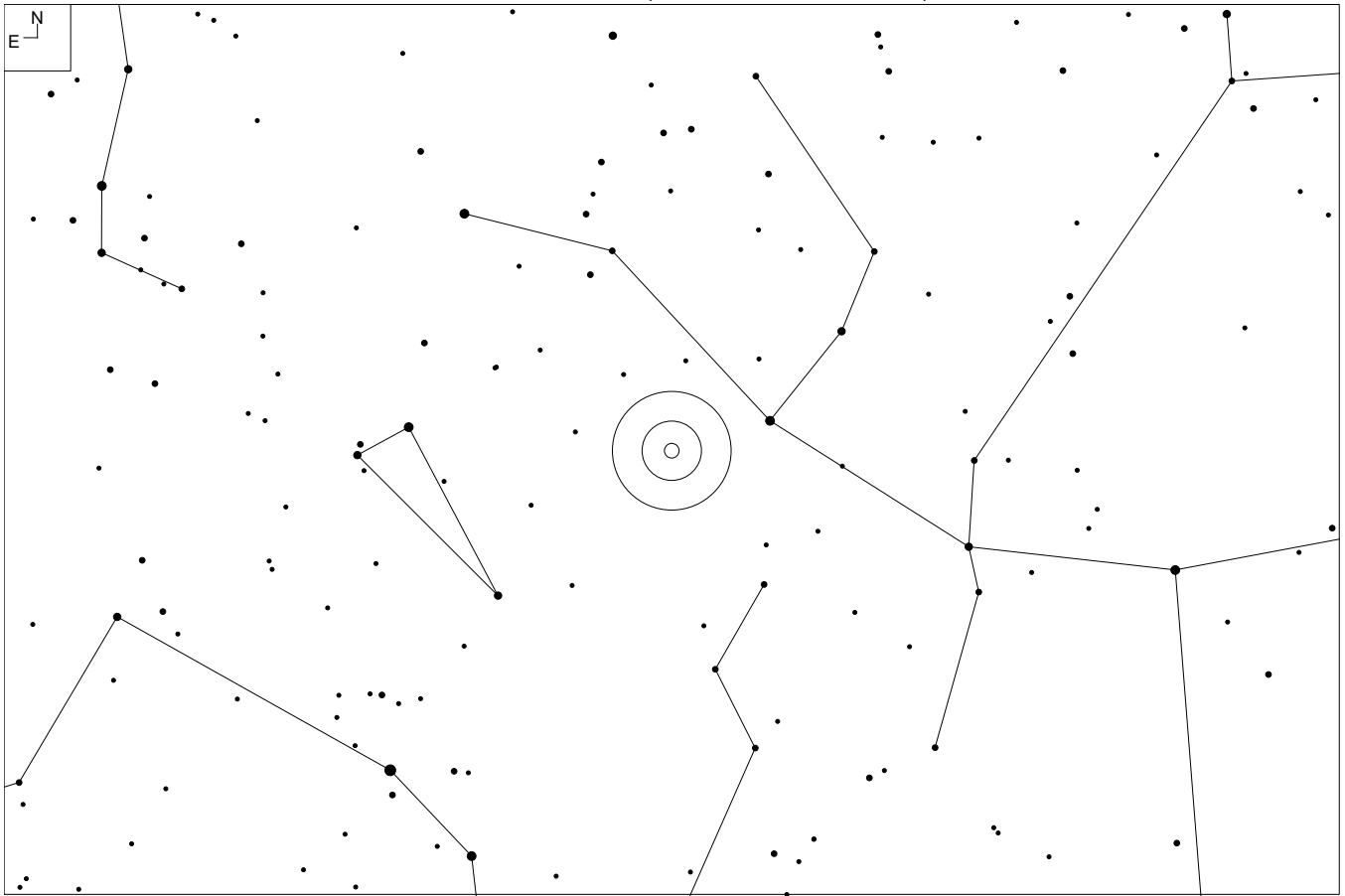
NGC 80 (Andromeda)



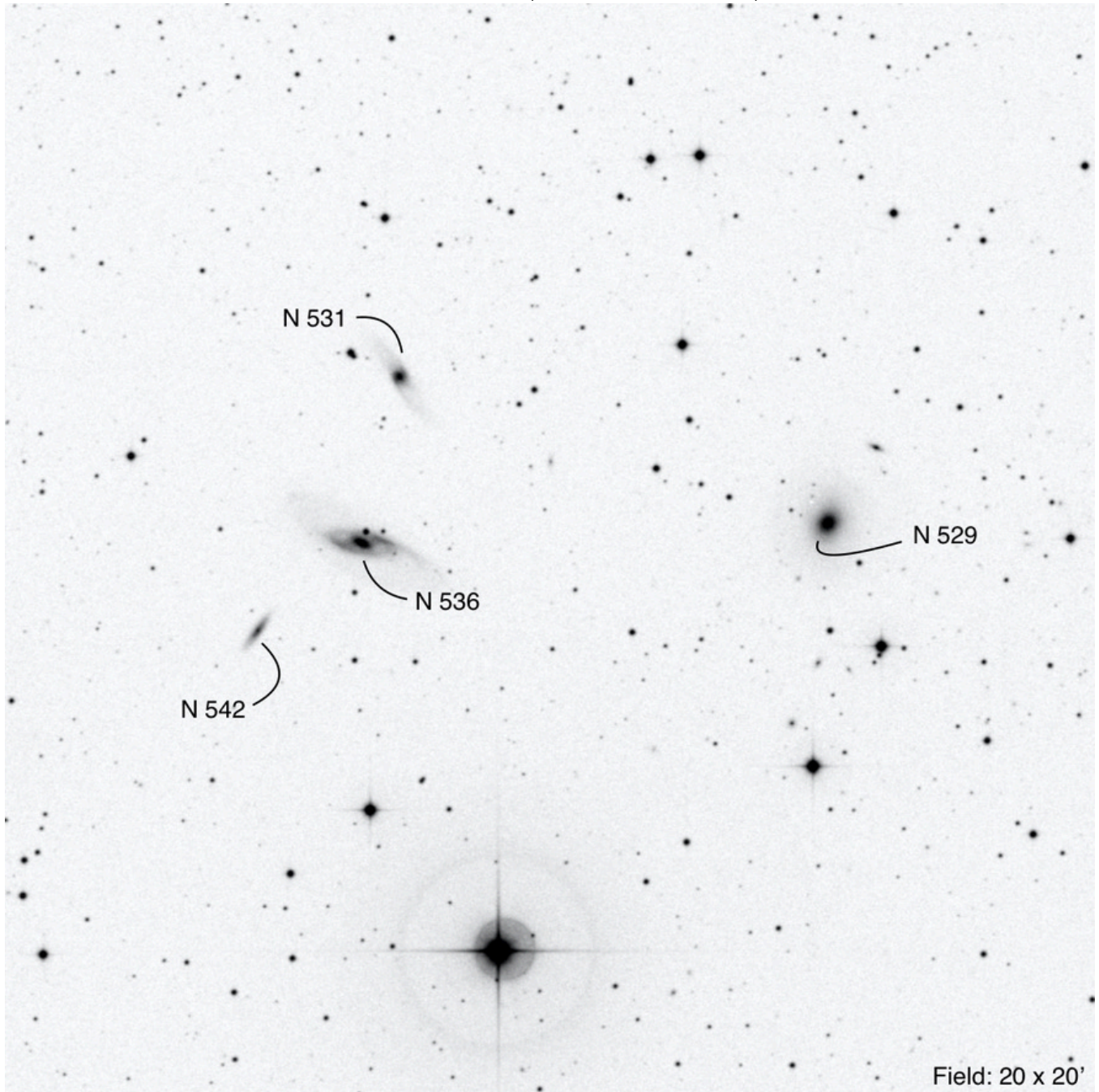
Field: 30 x 30'

RA	Dec	Mag ₁	# of galaxies	iDSA
00 21 25.6	+22 30 42	12.1	14	39, 51

NGC 536 (Andromeda)

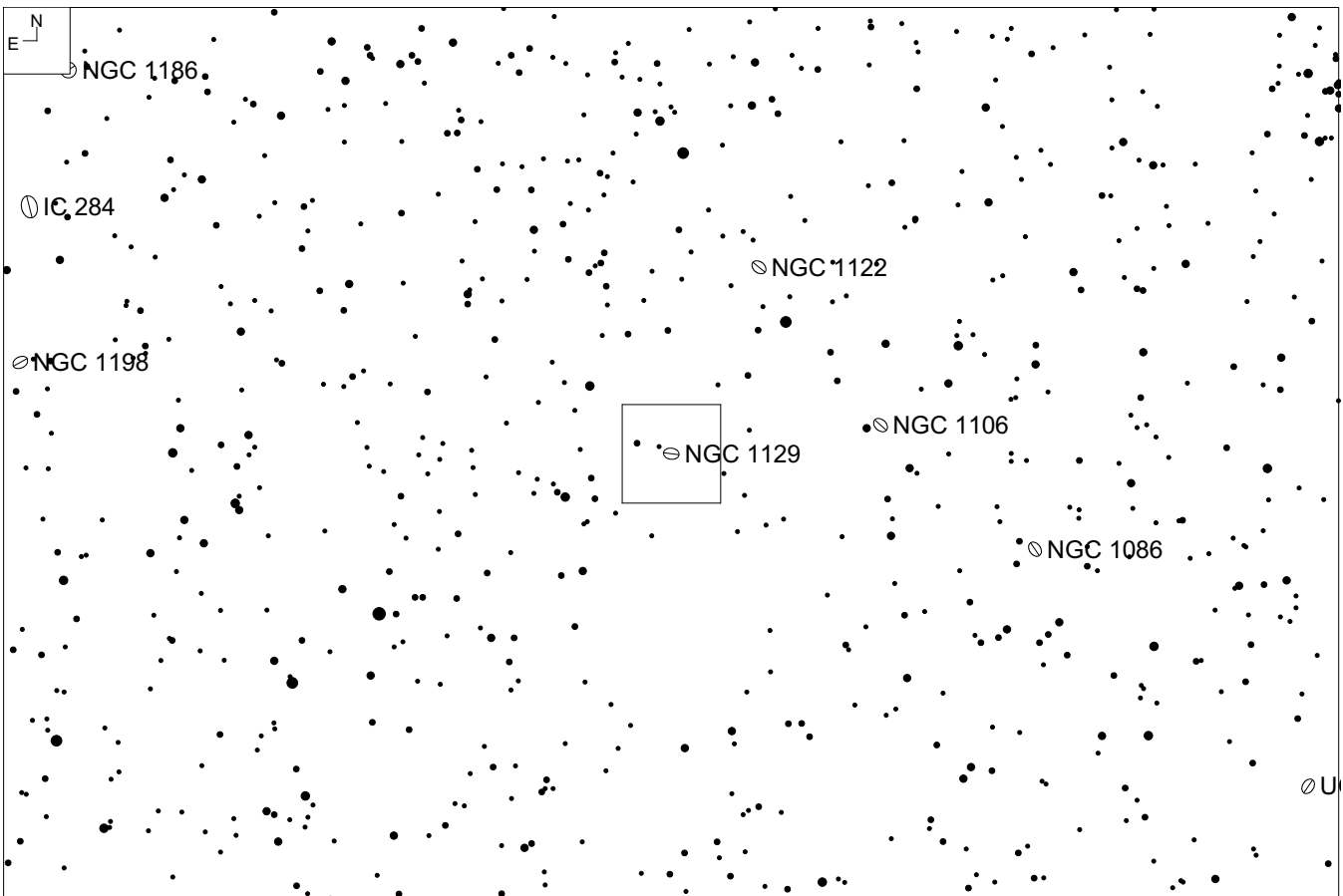
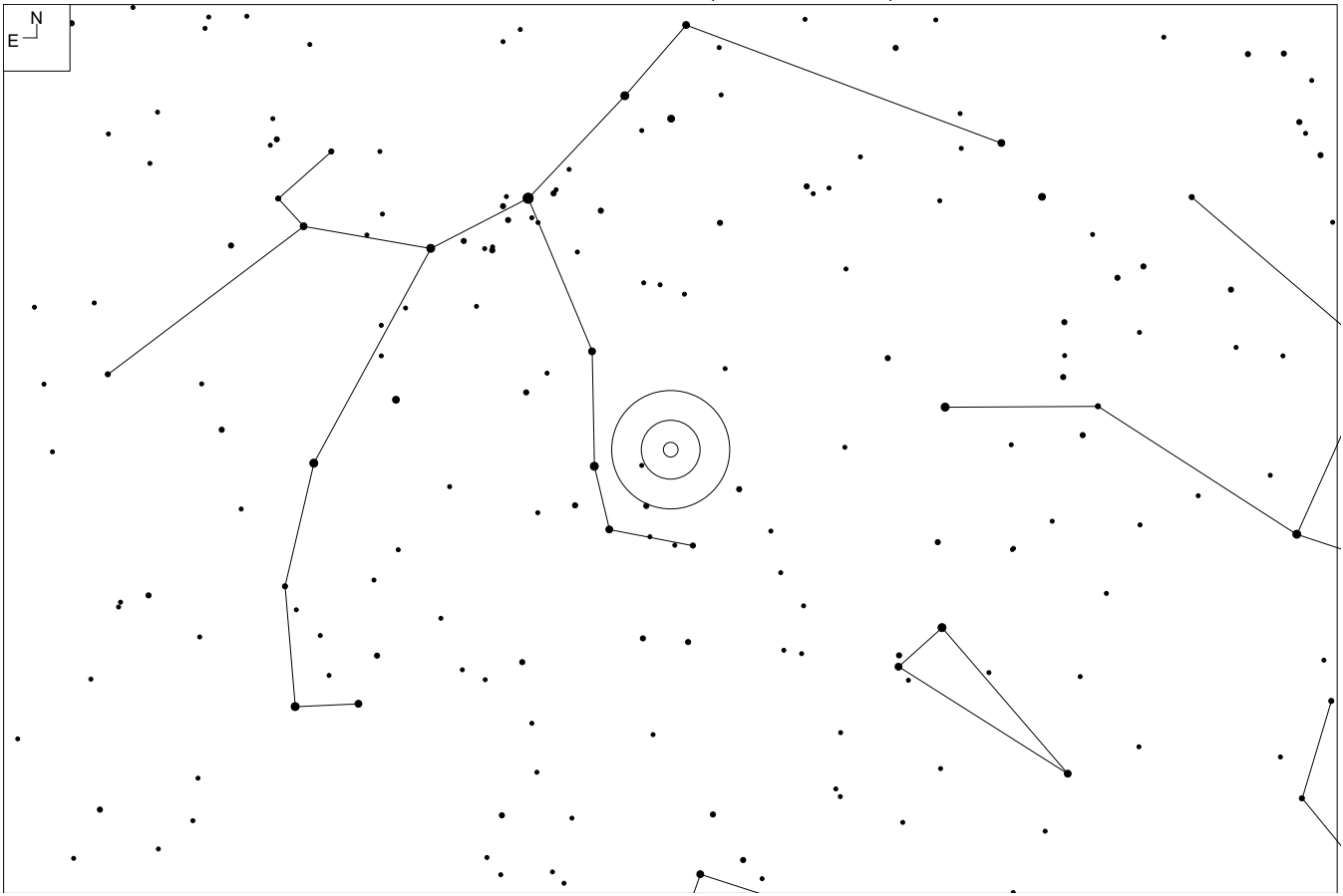


NGC 536 (Andromeda)

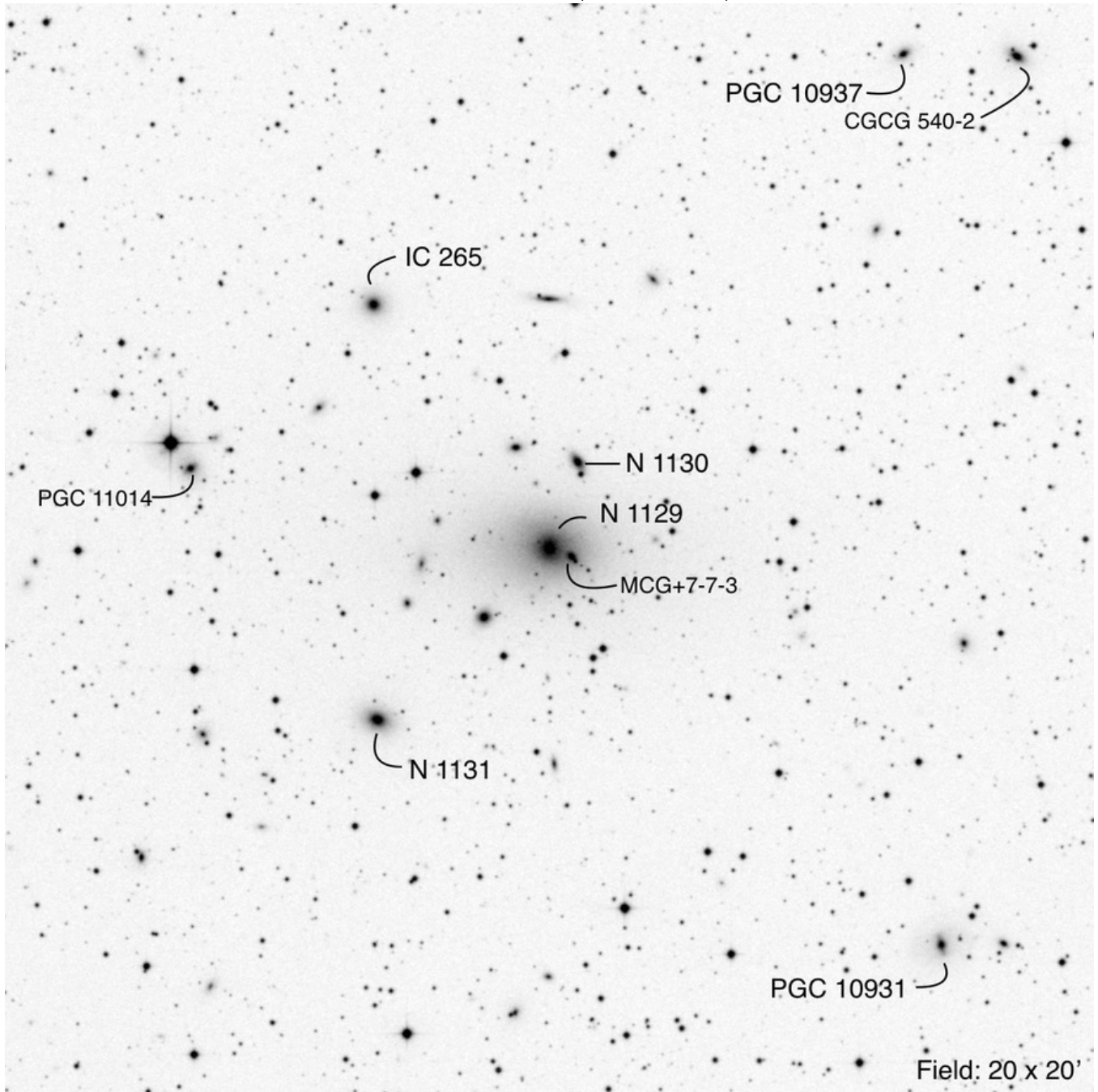


RA	Dec	Mag ₁	# of galaxies	iDSA
01 26 05.0	+34 42 11	12.8	4	39

NGC 1129 (Perseus)

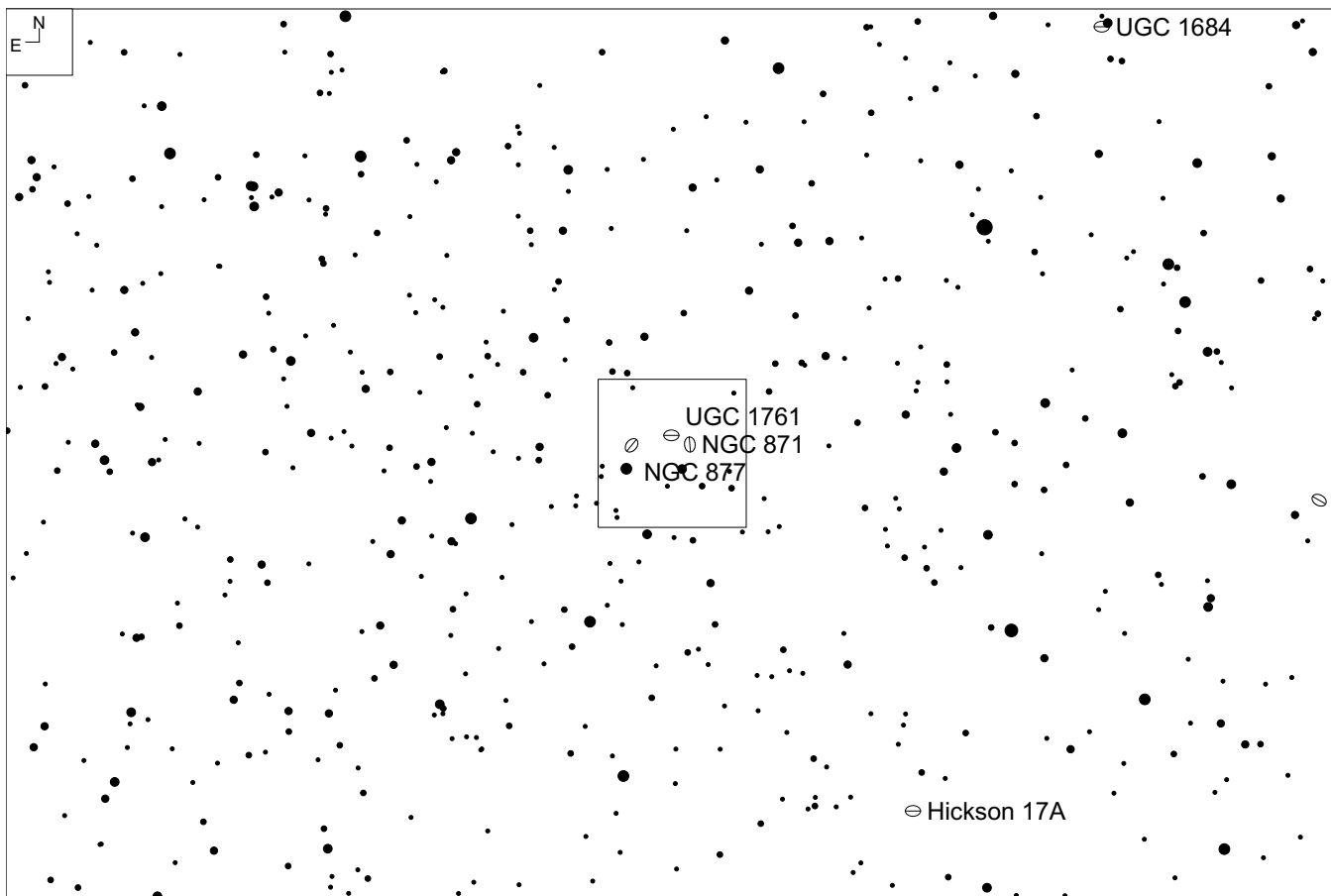
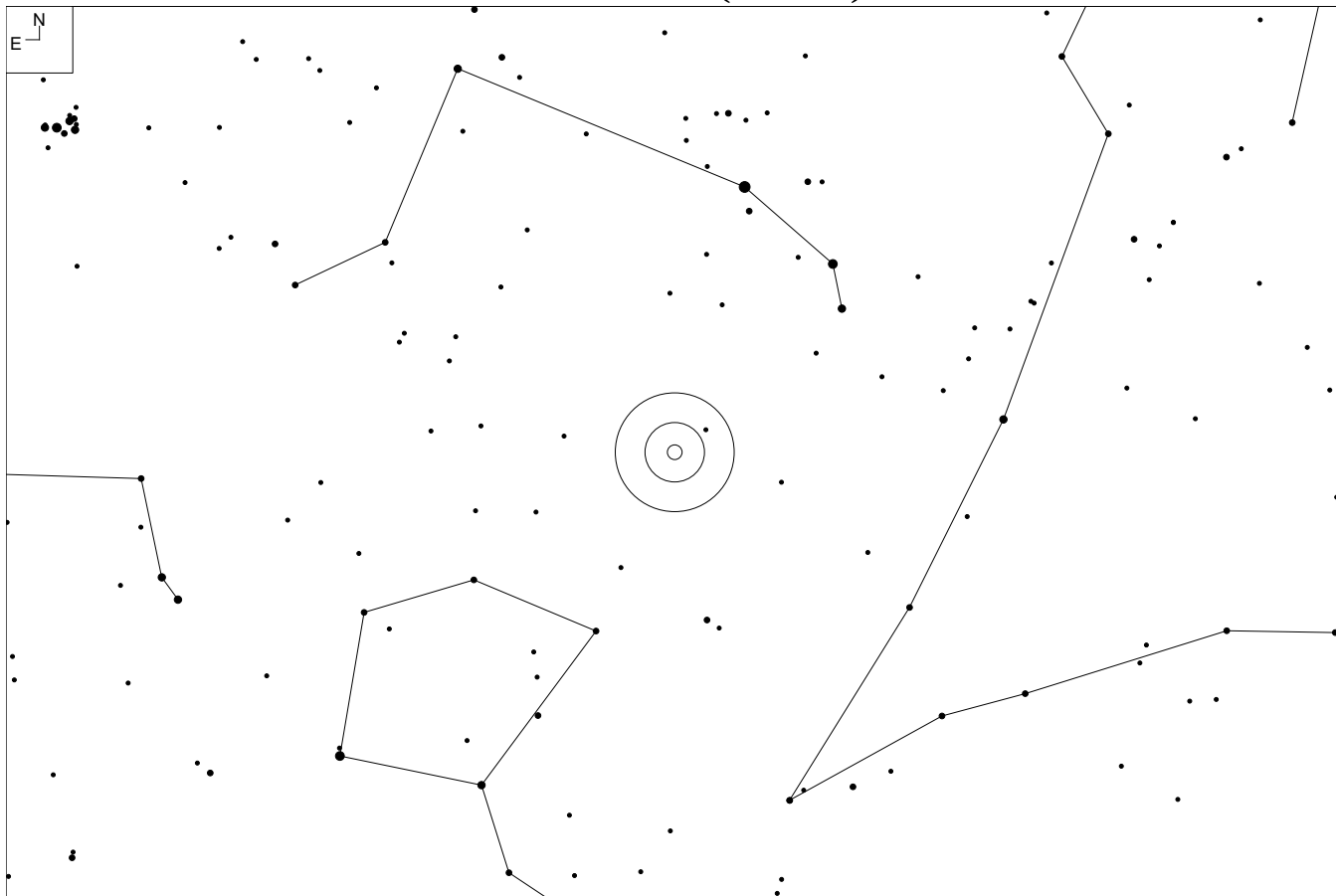


NGC 1129 (Perseus)

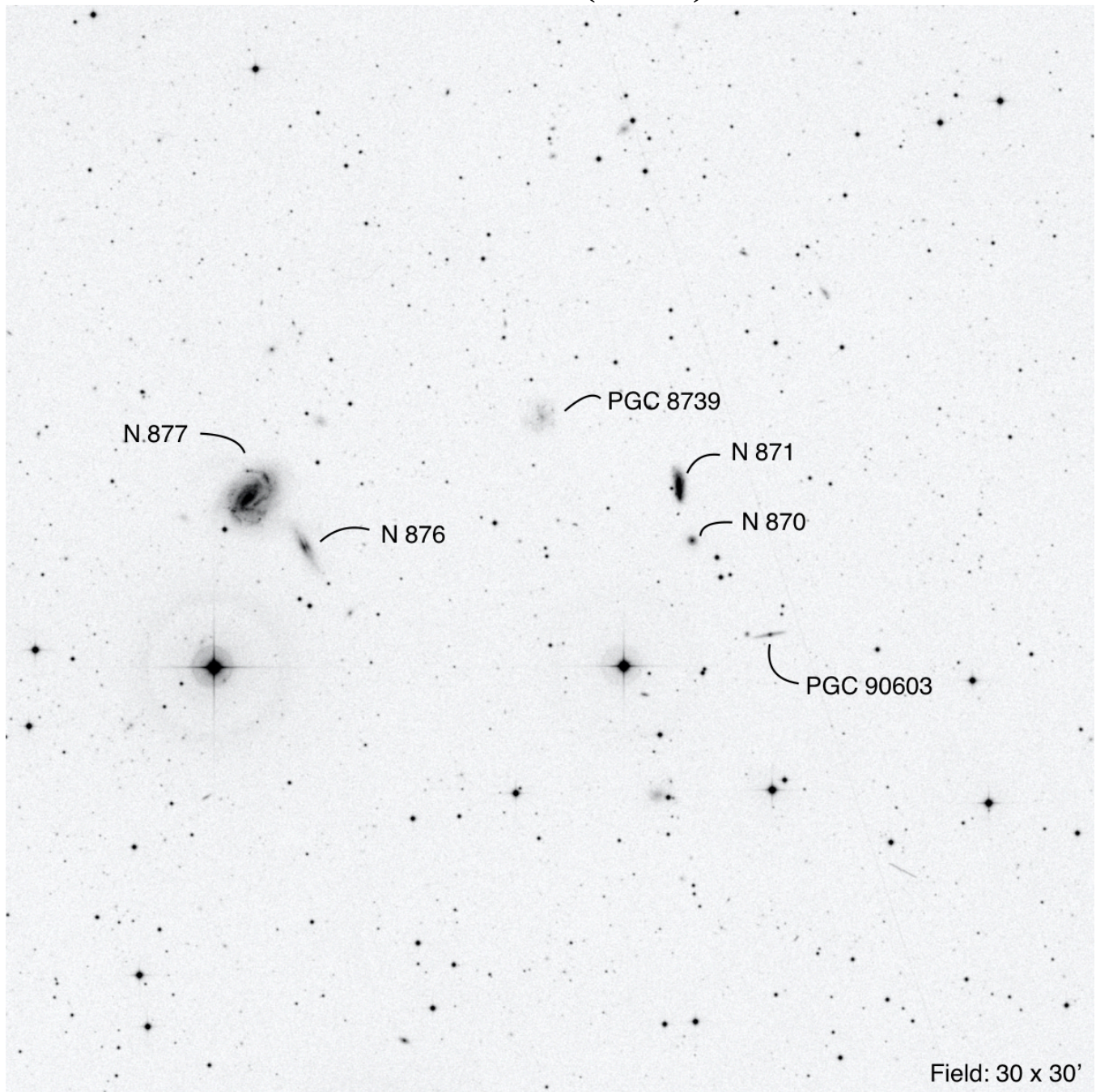


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 7	02 54 27.1	+41 34 45	12.5	9	26

NGC 877 (Aries)



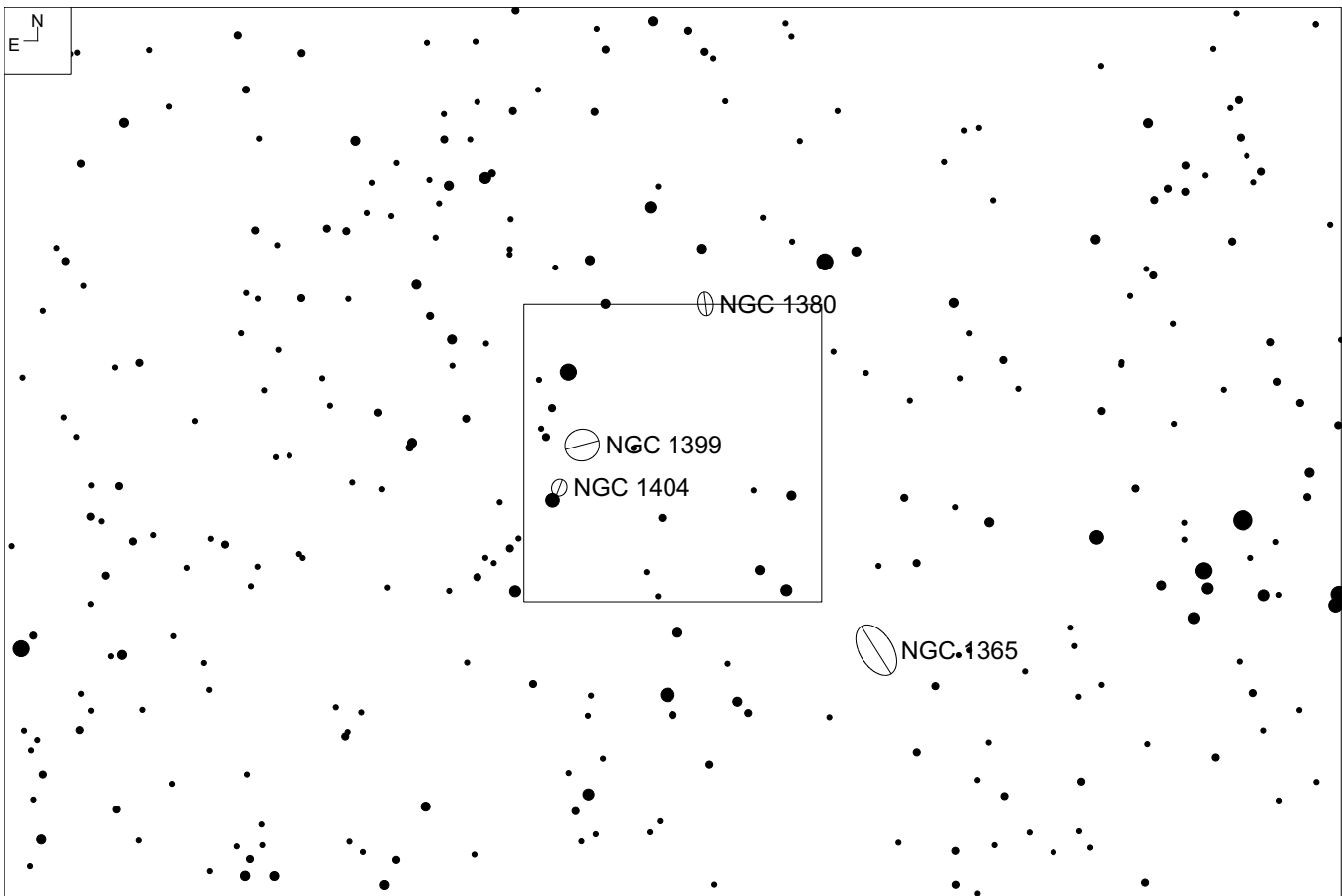
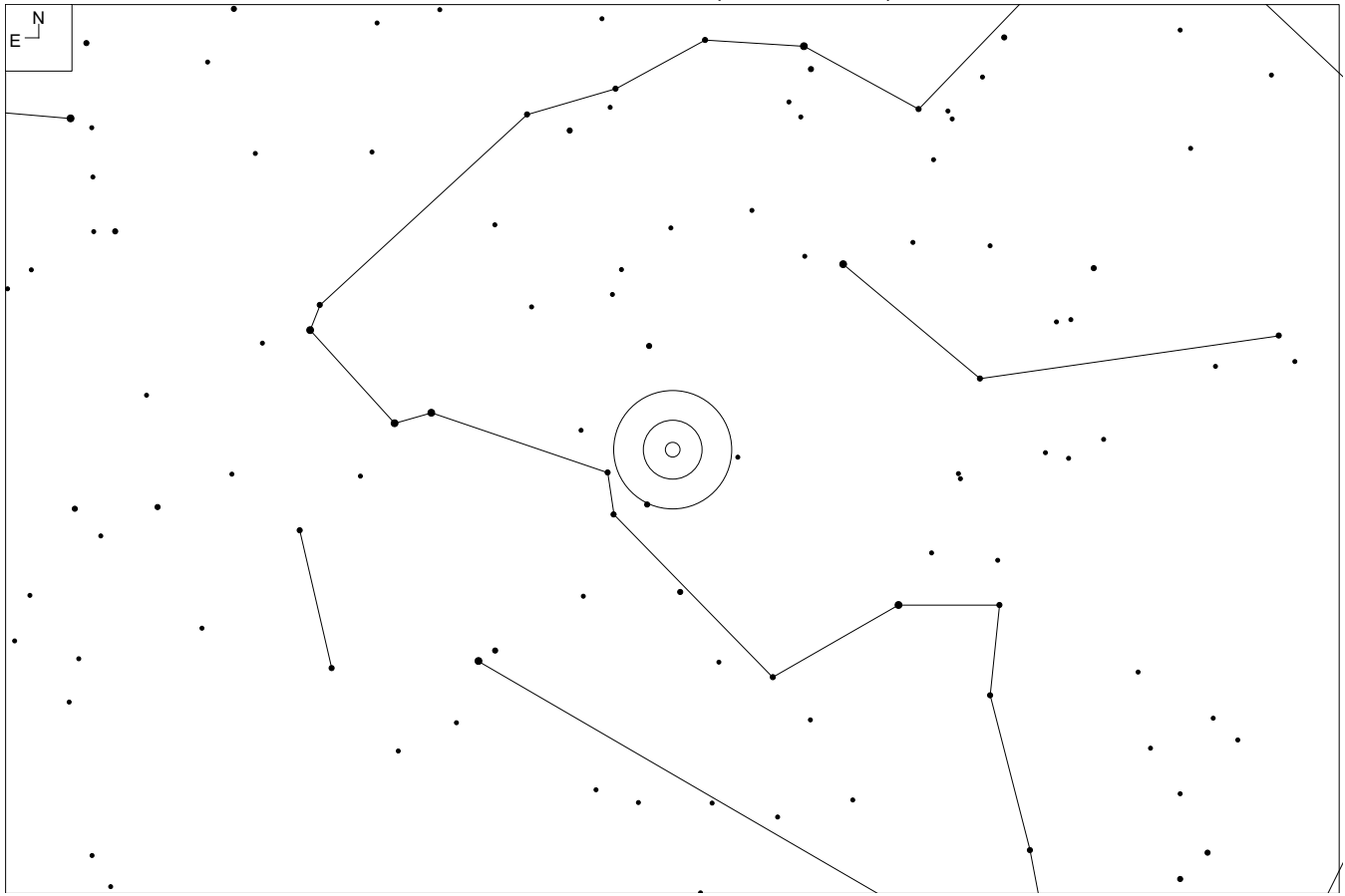
NGC 877 (Aries)



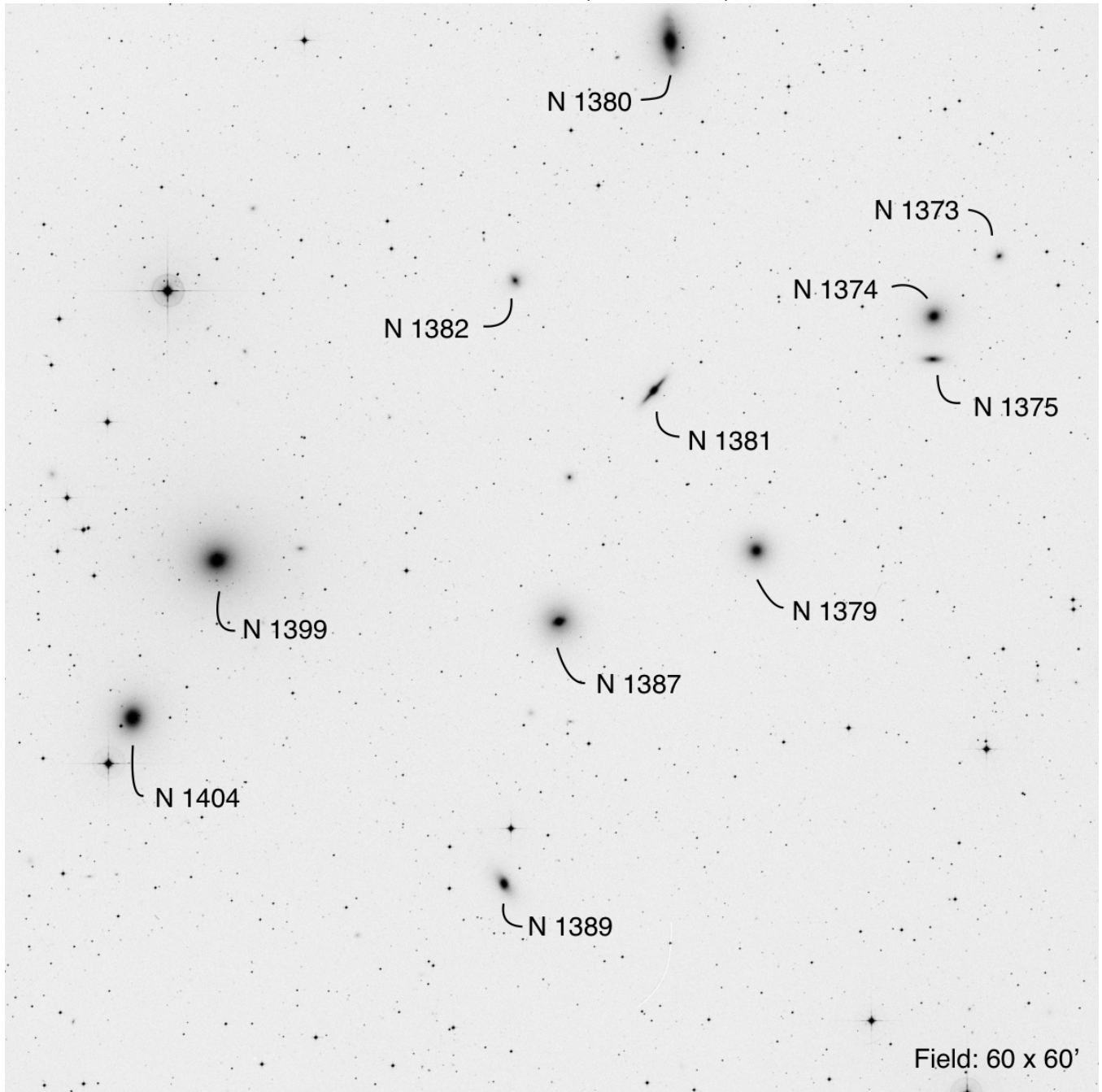
Field: 30 x 30'

RA	Dec	Mag ₁	# of galaxies	iDSA
02 17 25.4	+14 31 10	11.9	6	50

NGC 1399 (Fornax)



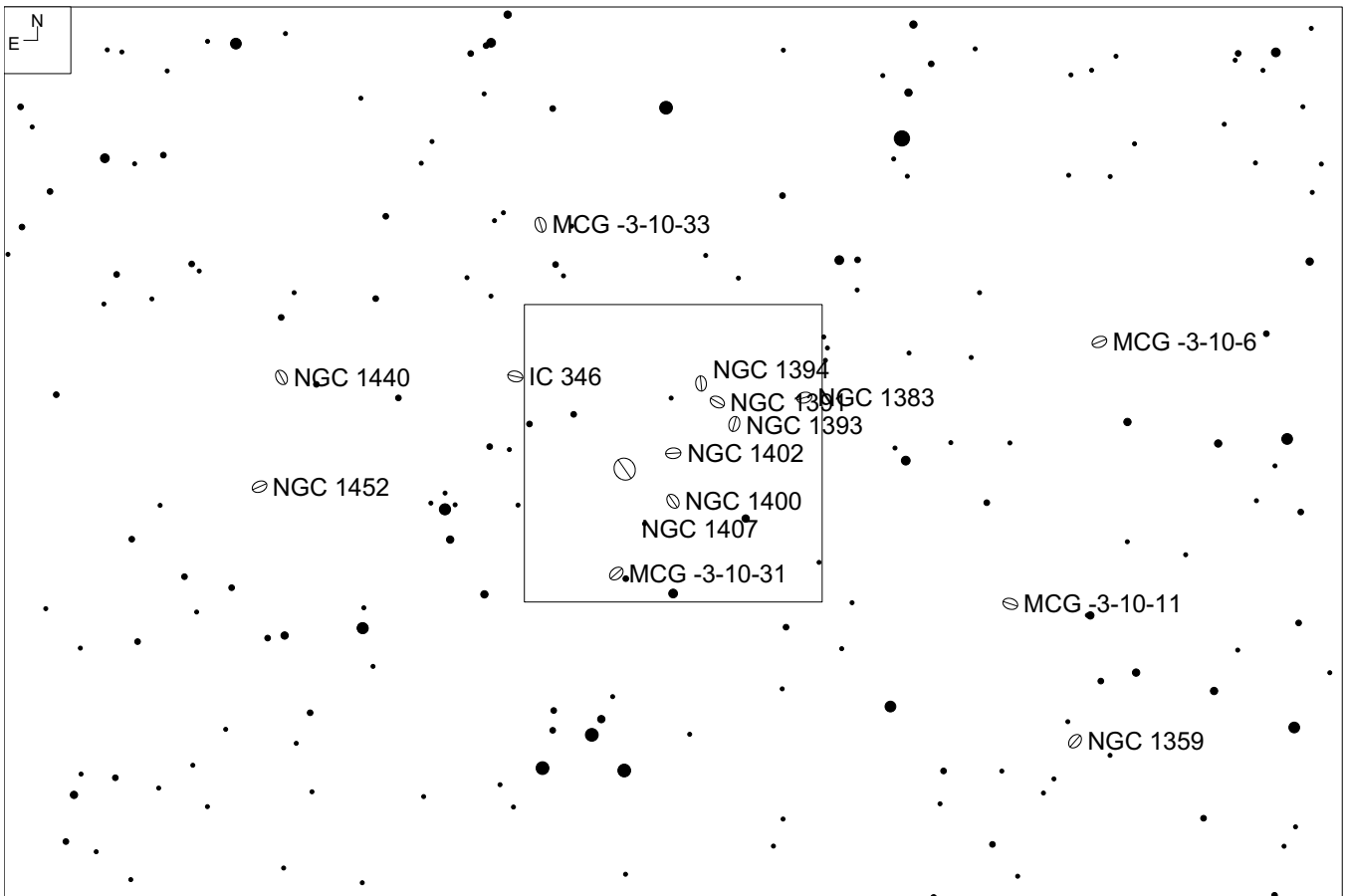
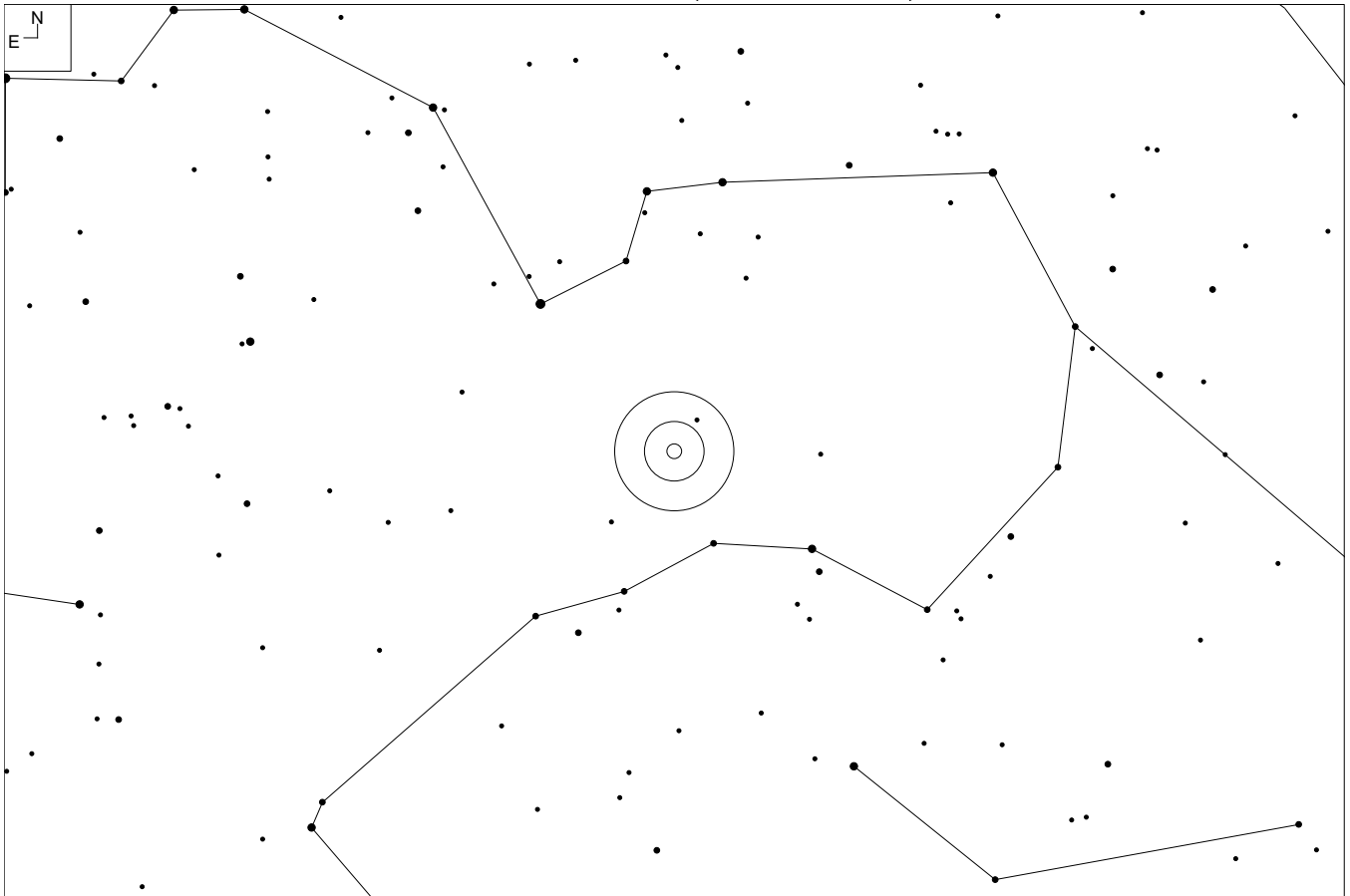
NGC 1399 (Fornax)



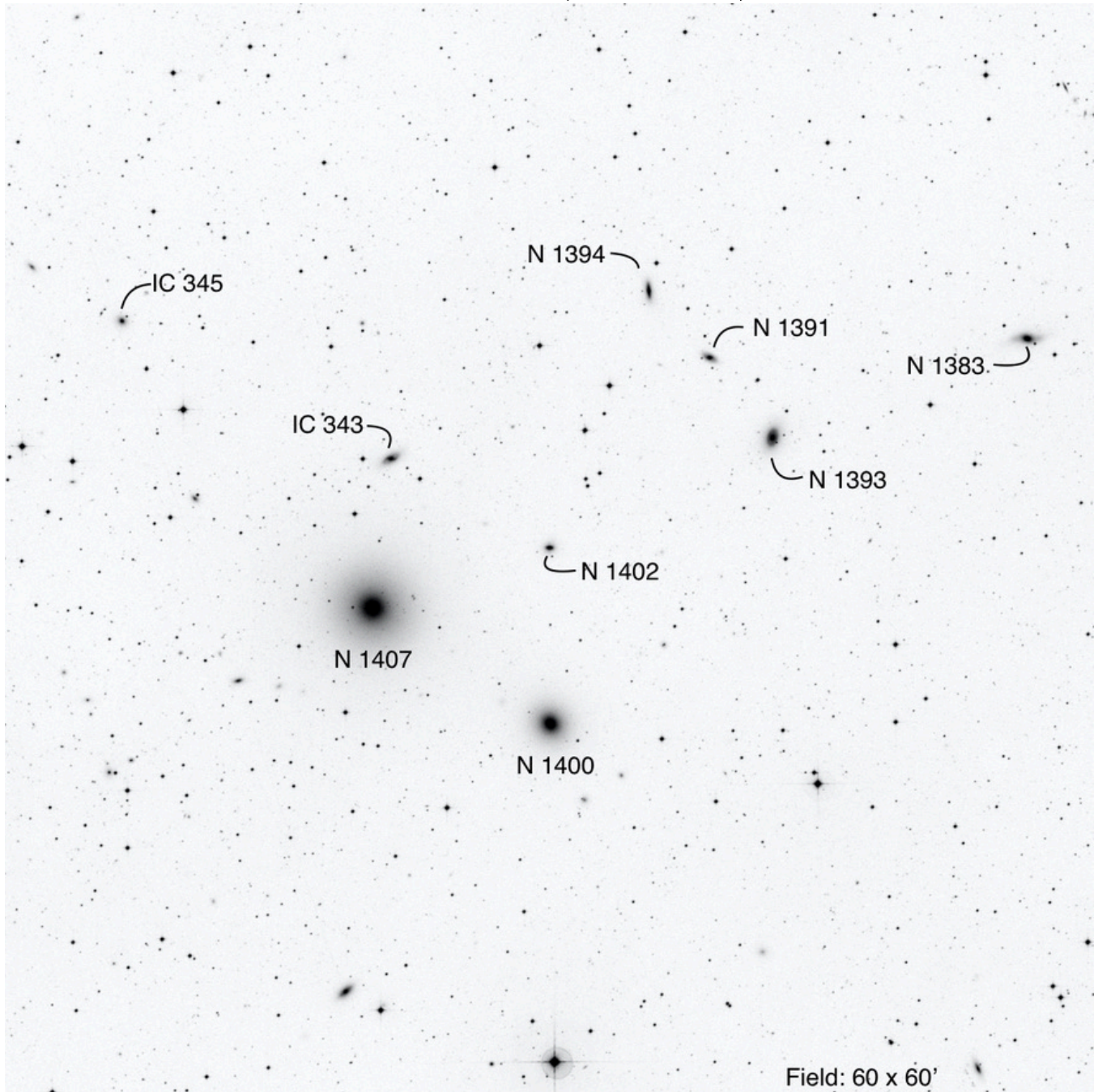
Center of Abell Galaxy Cluster 373

RA	Dec	Mag1	# of galaxies	iDSA
03 38 29.0	-35 26 58	10.6	11	86, 98, D10

NGC 1402 (Eridanus)

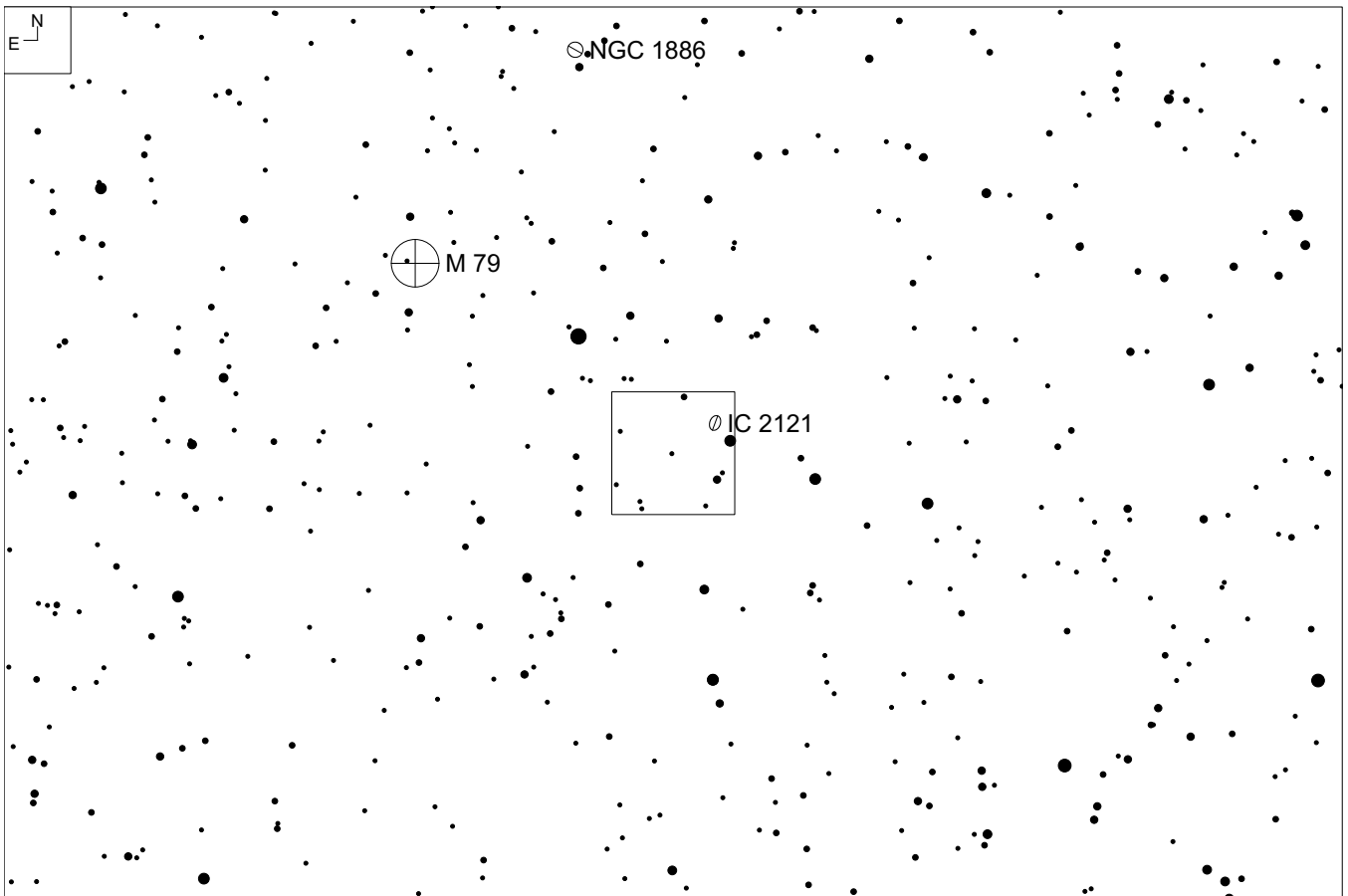
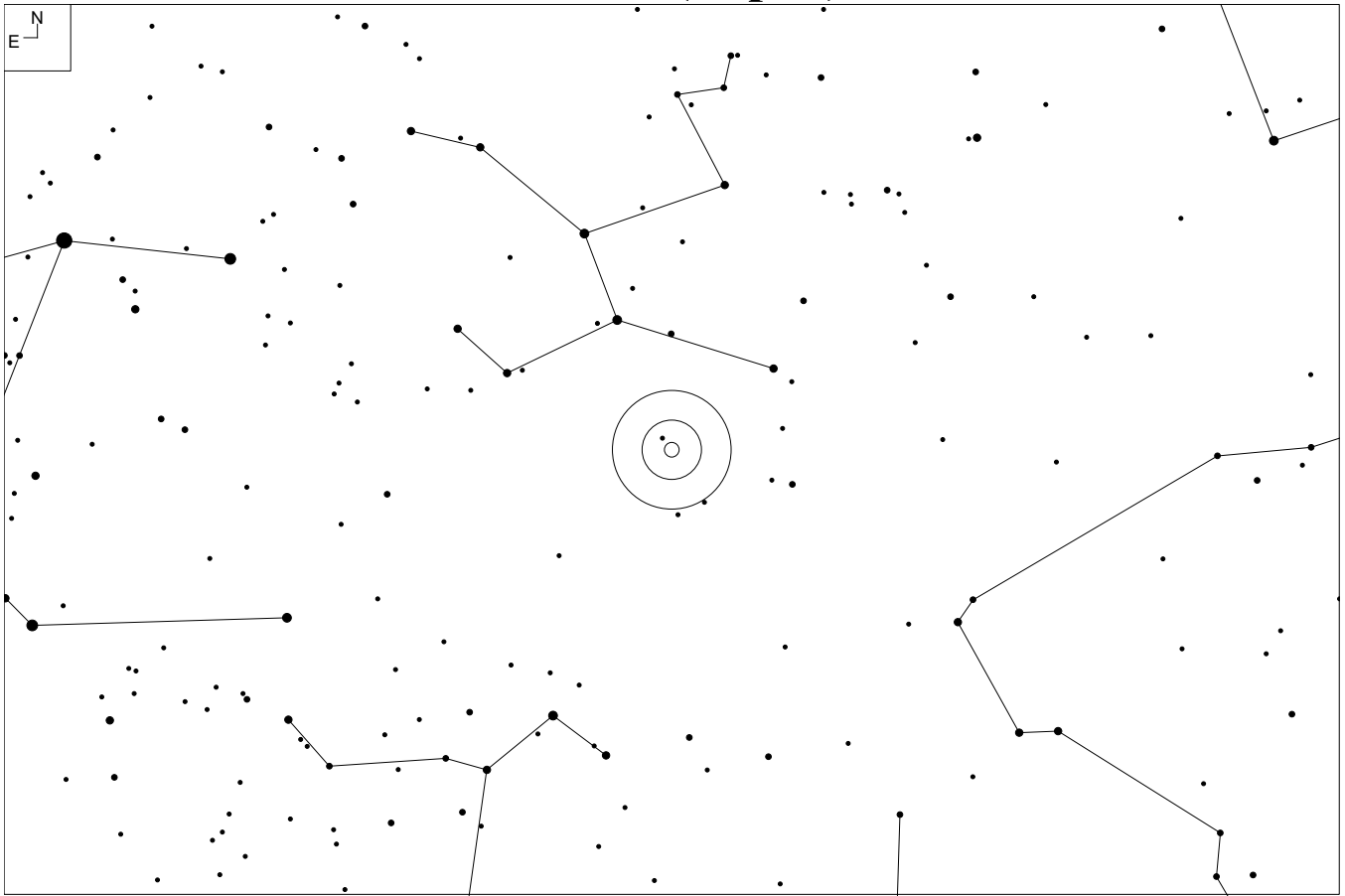


NGC 1402 (Eridanus)

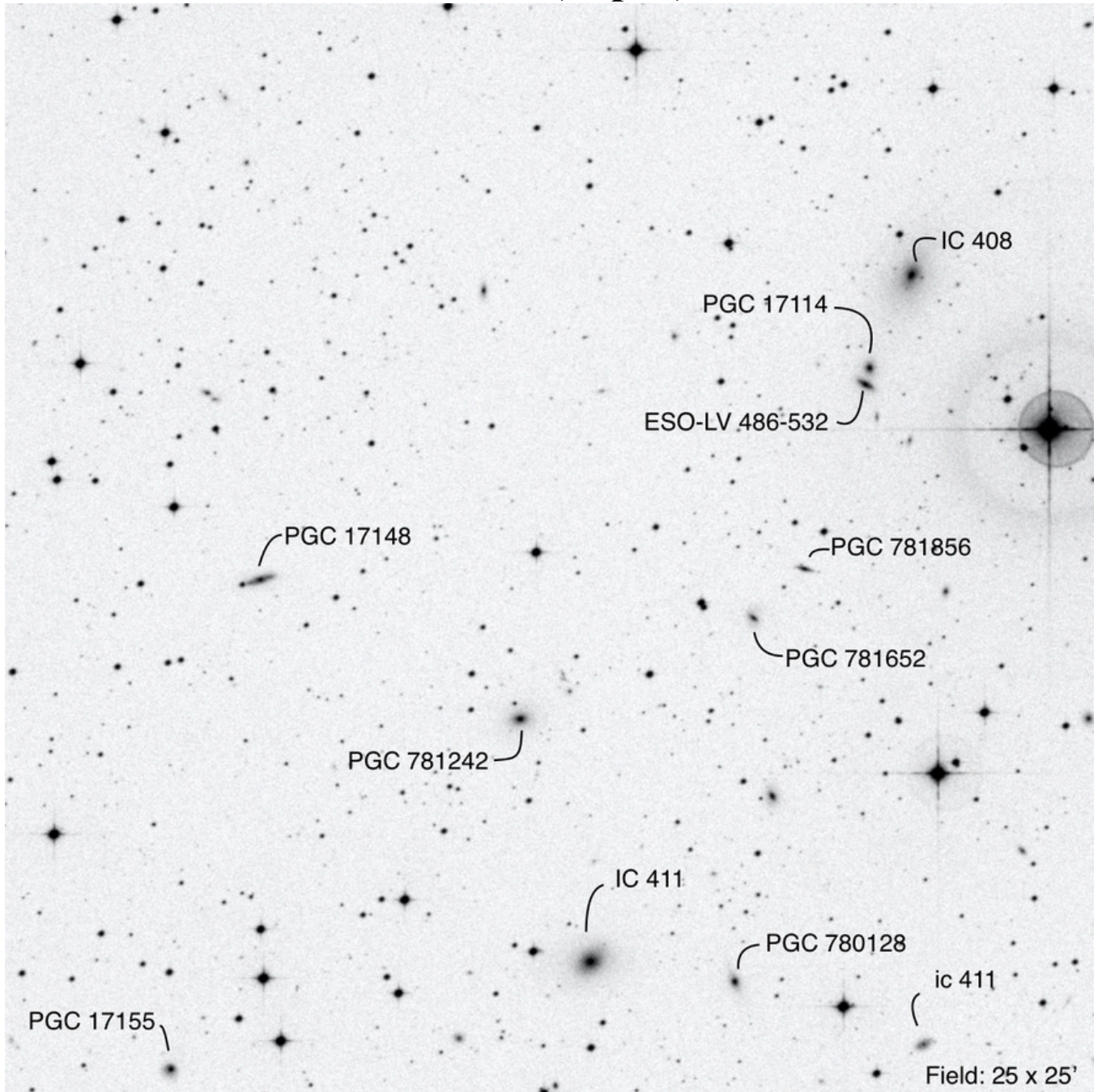


RA	Dec	Mag ₁	# of galaxies	iDSA
03 39 30.6	-18 31 37	9.7	9	74

IC 408 (Lepus)

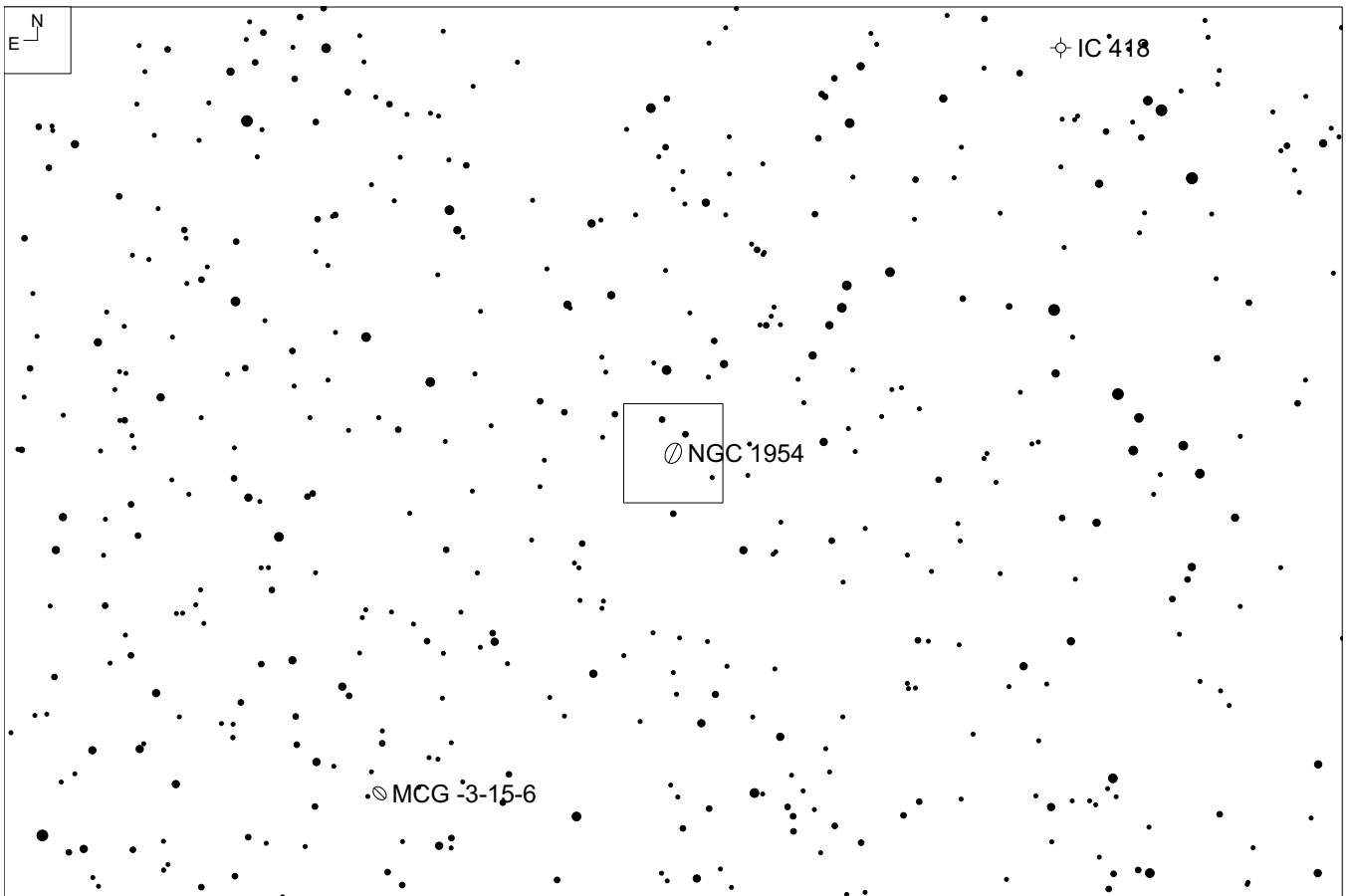
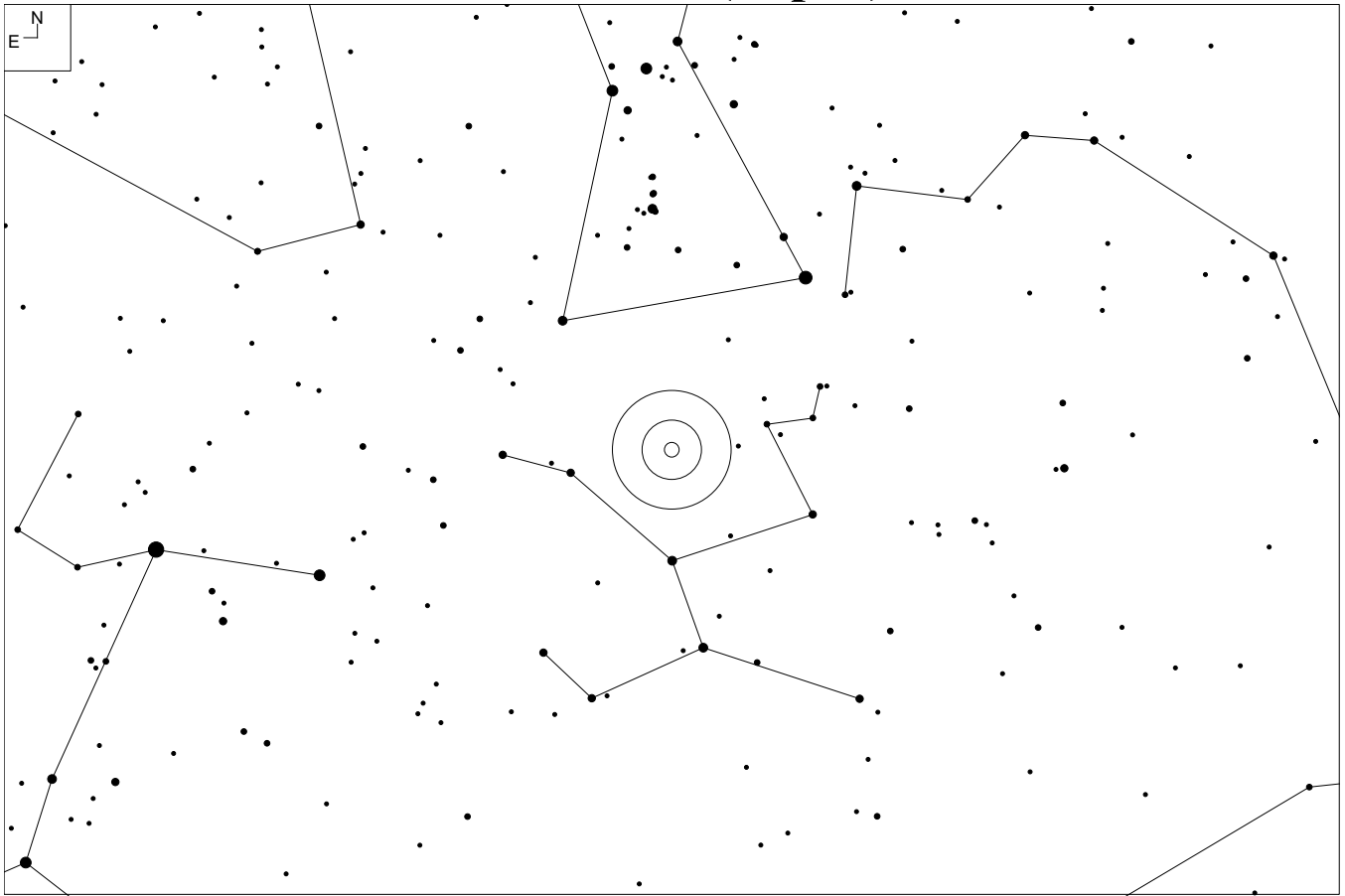


IC 408 (Lepus)

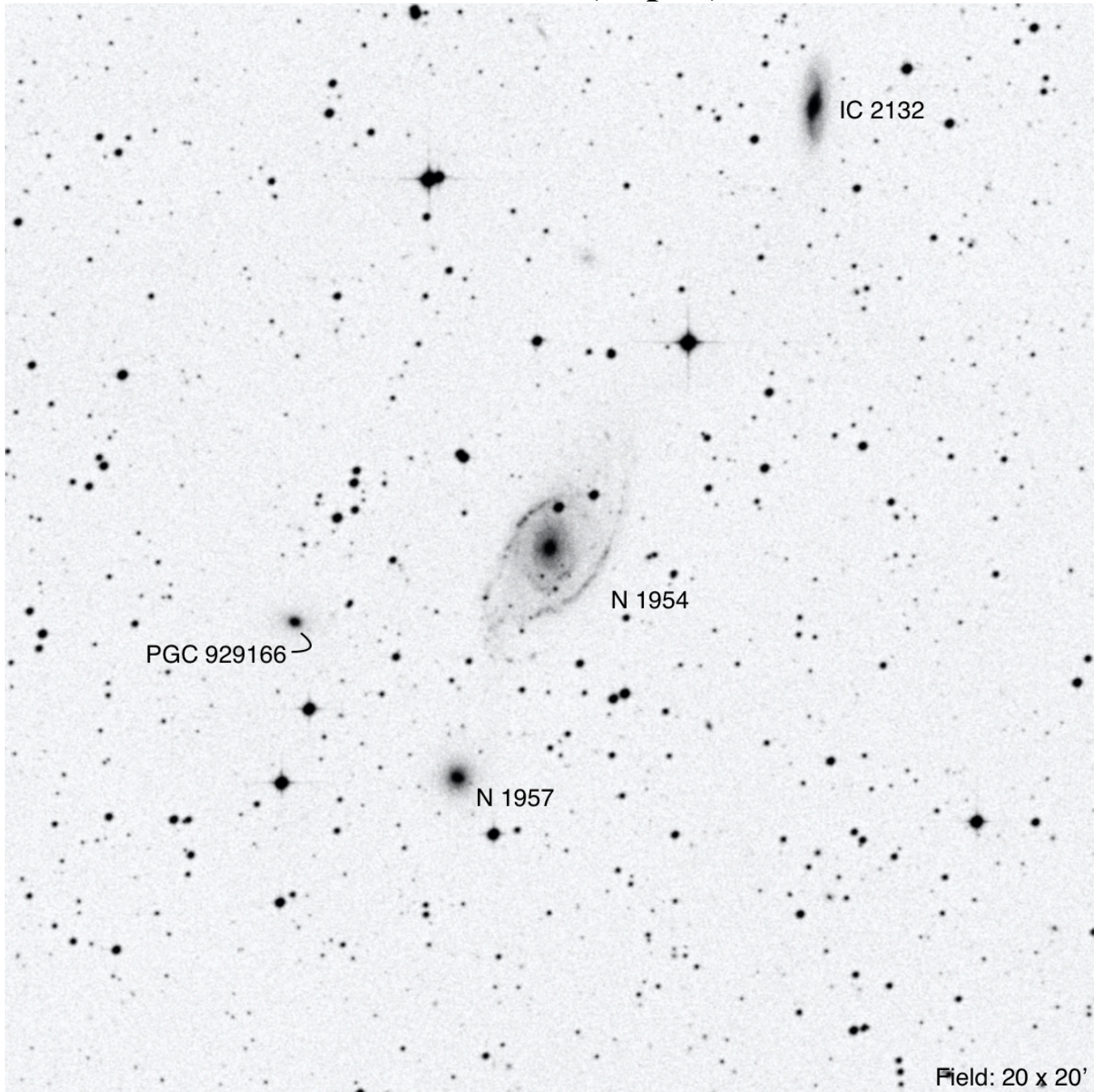


RA	Dec	Mag ₁	# of galaxies	iDSA
05 20 22.0	-25 09 58	13.8	11	85

NGC 1954 (Lepus)

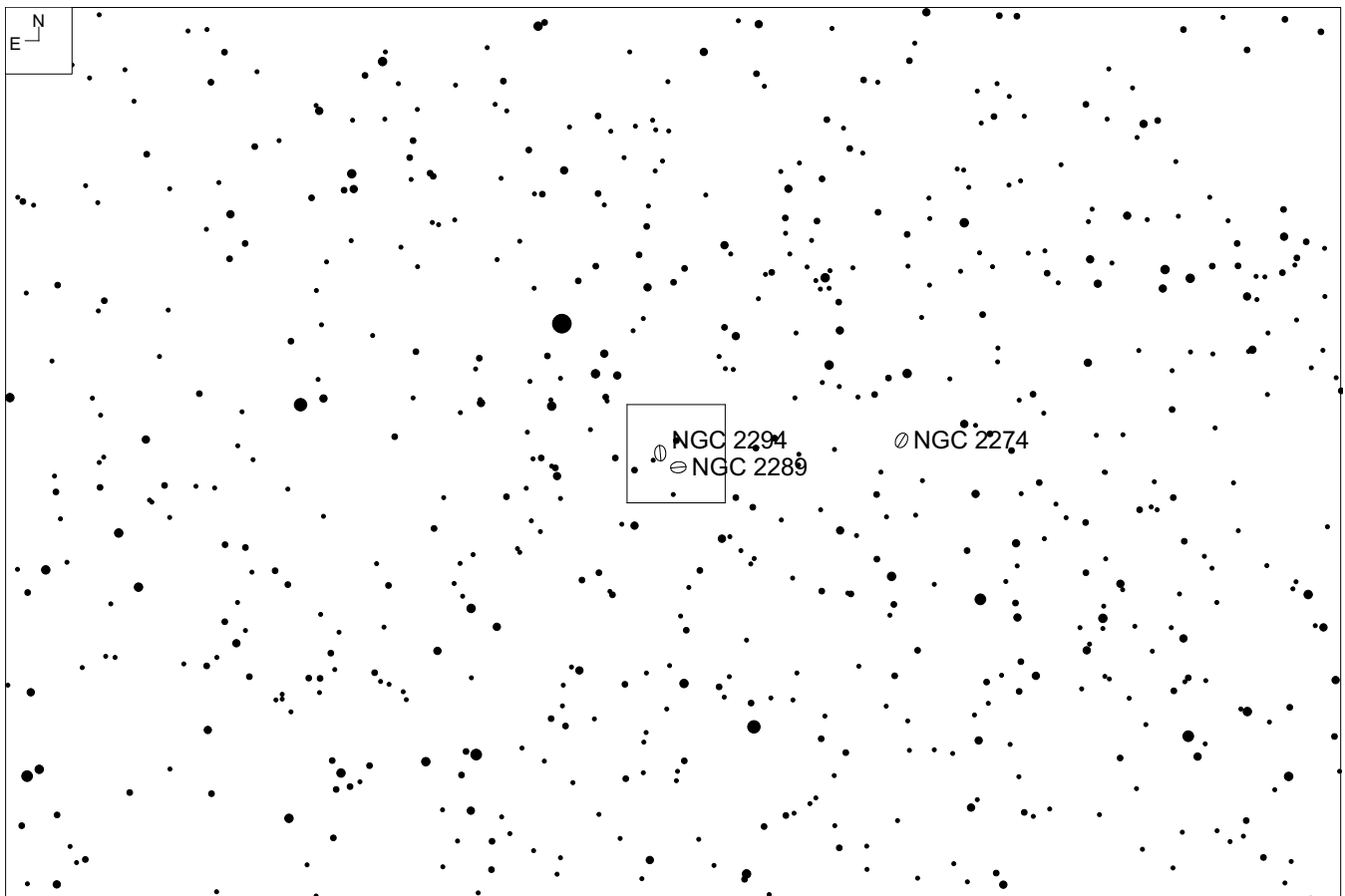
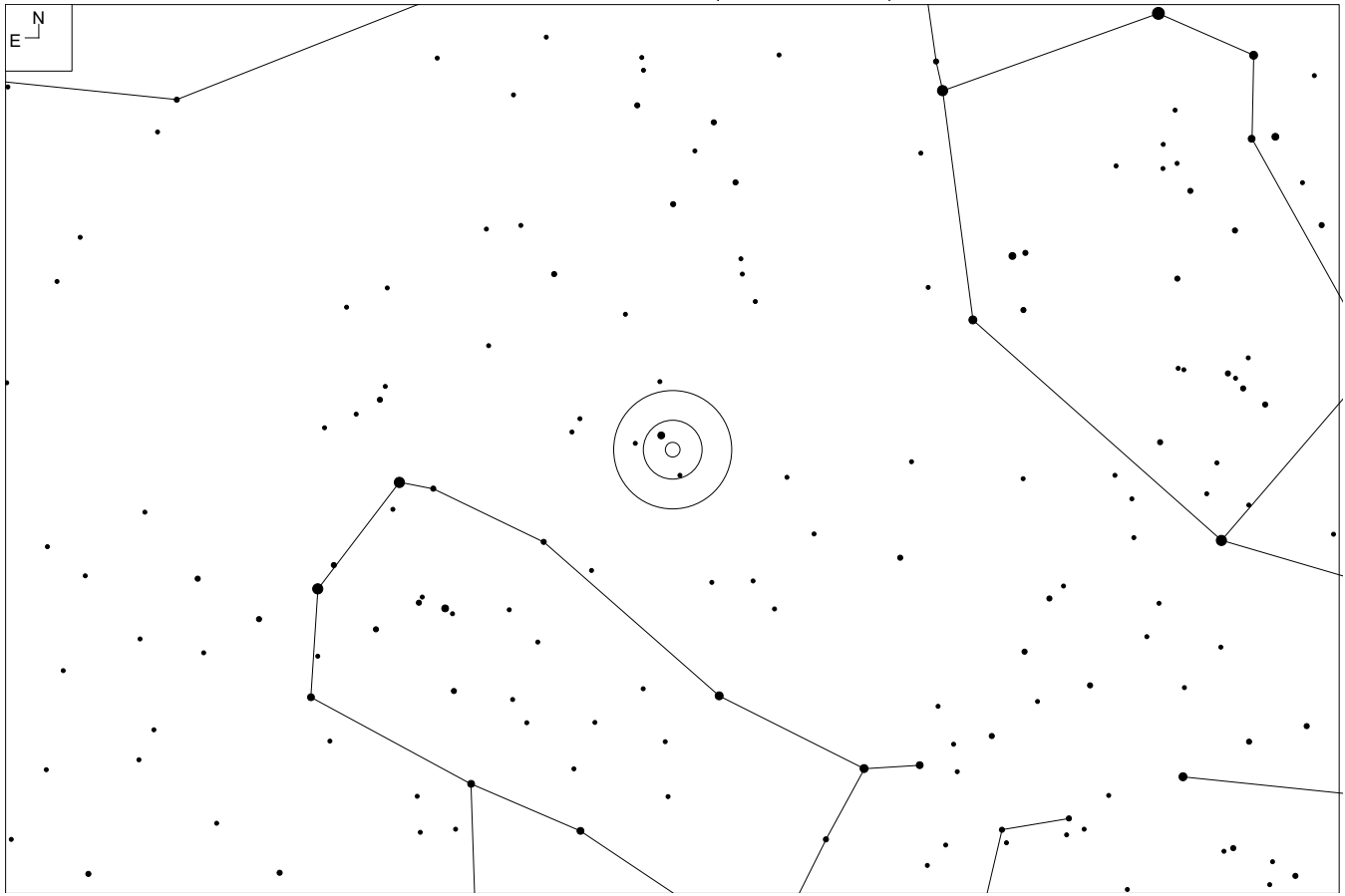


NGC 1954 (Lepus)

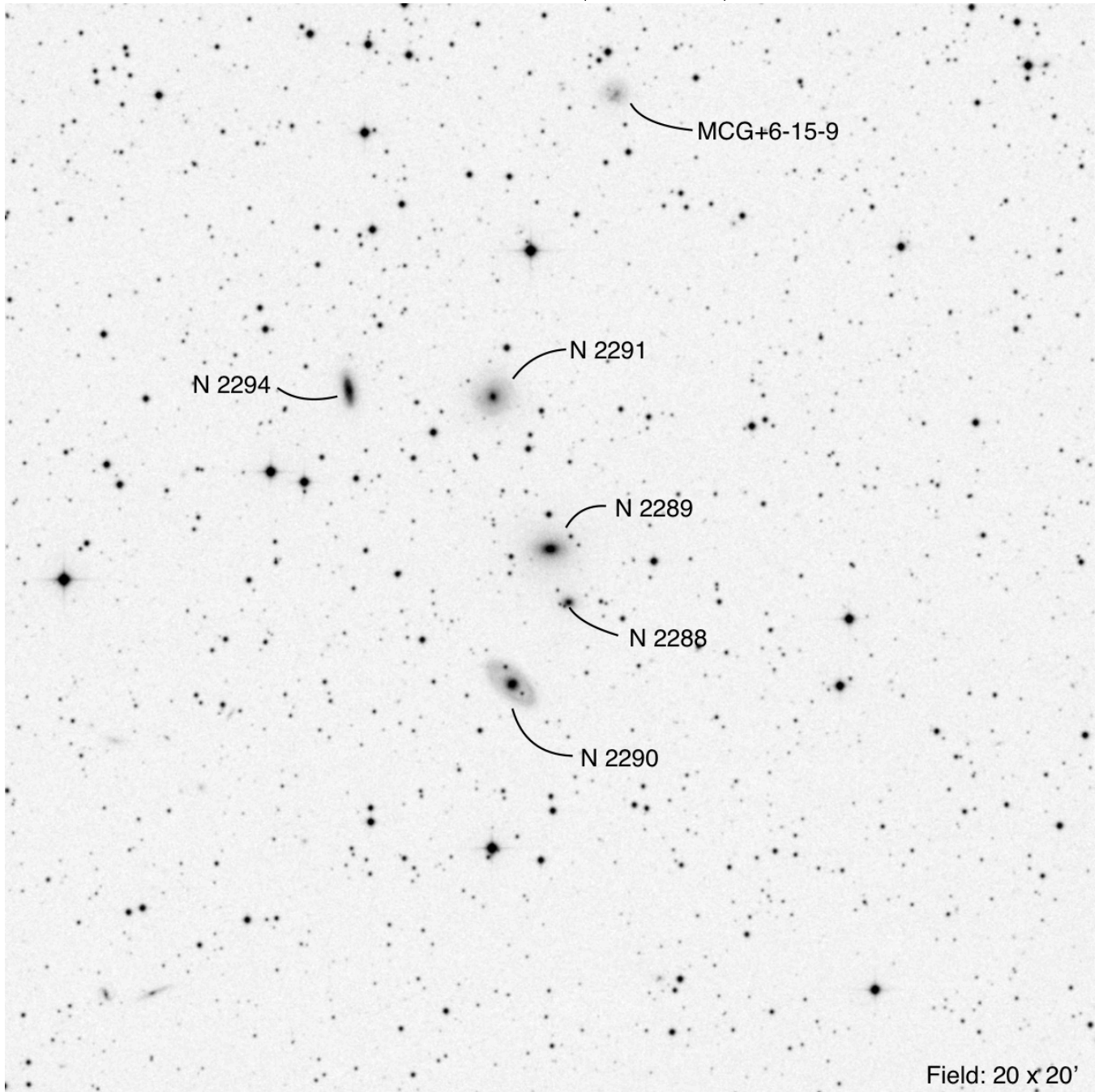


RA	Dec	Mag ₁	# of galaxies	iDSA
05 32 47.1	-14 03 43	12.5	4	73

NGC 2289 (Gemini)

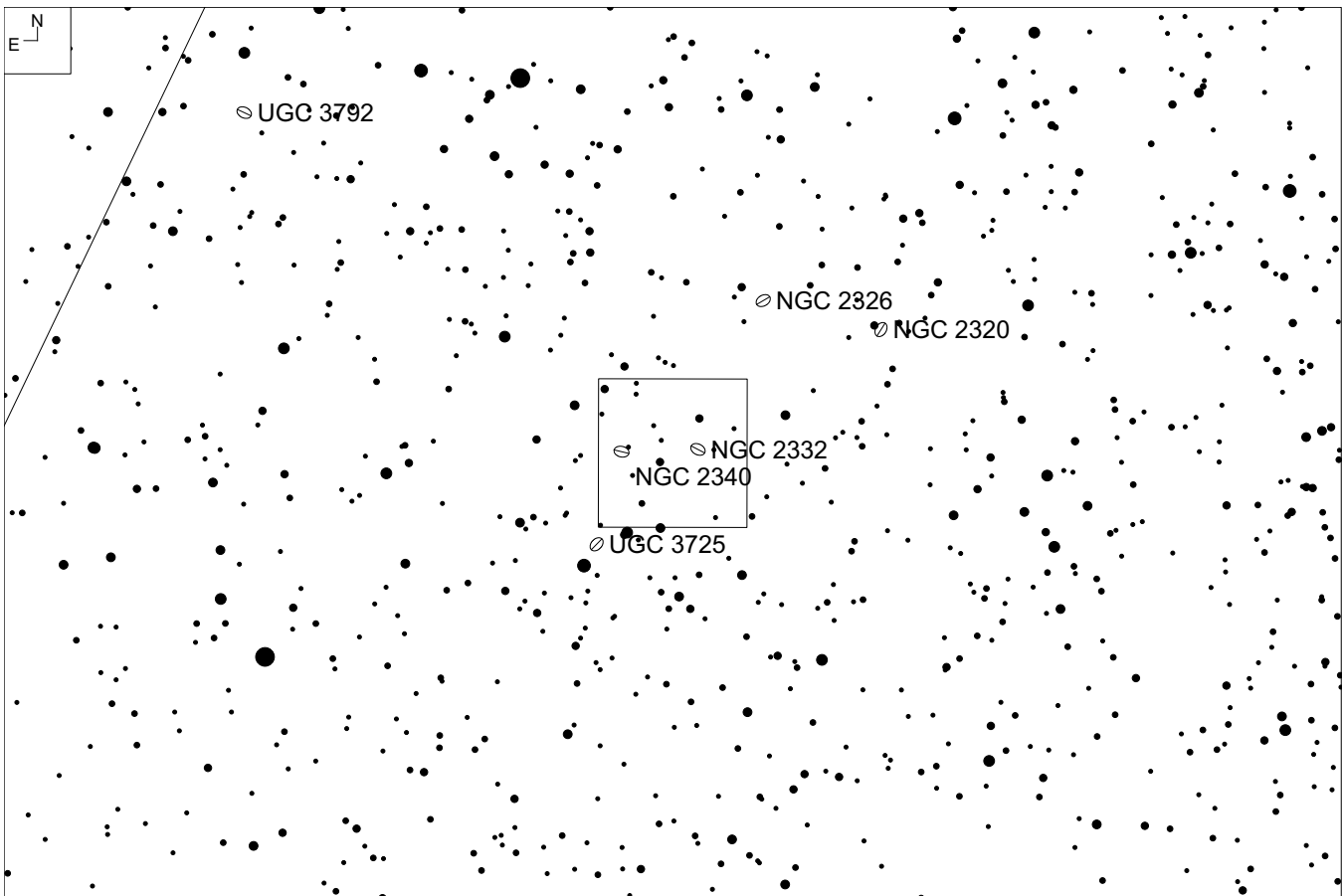
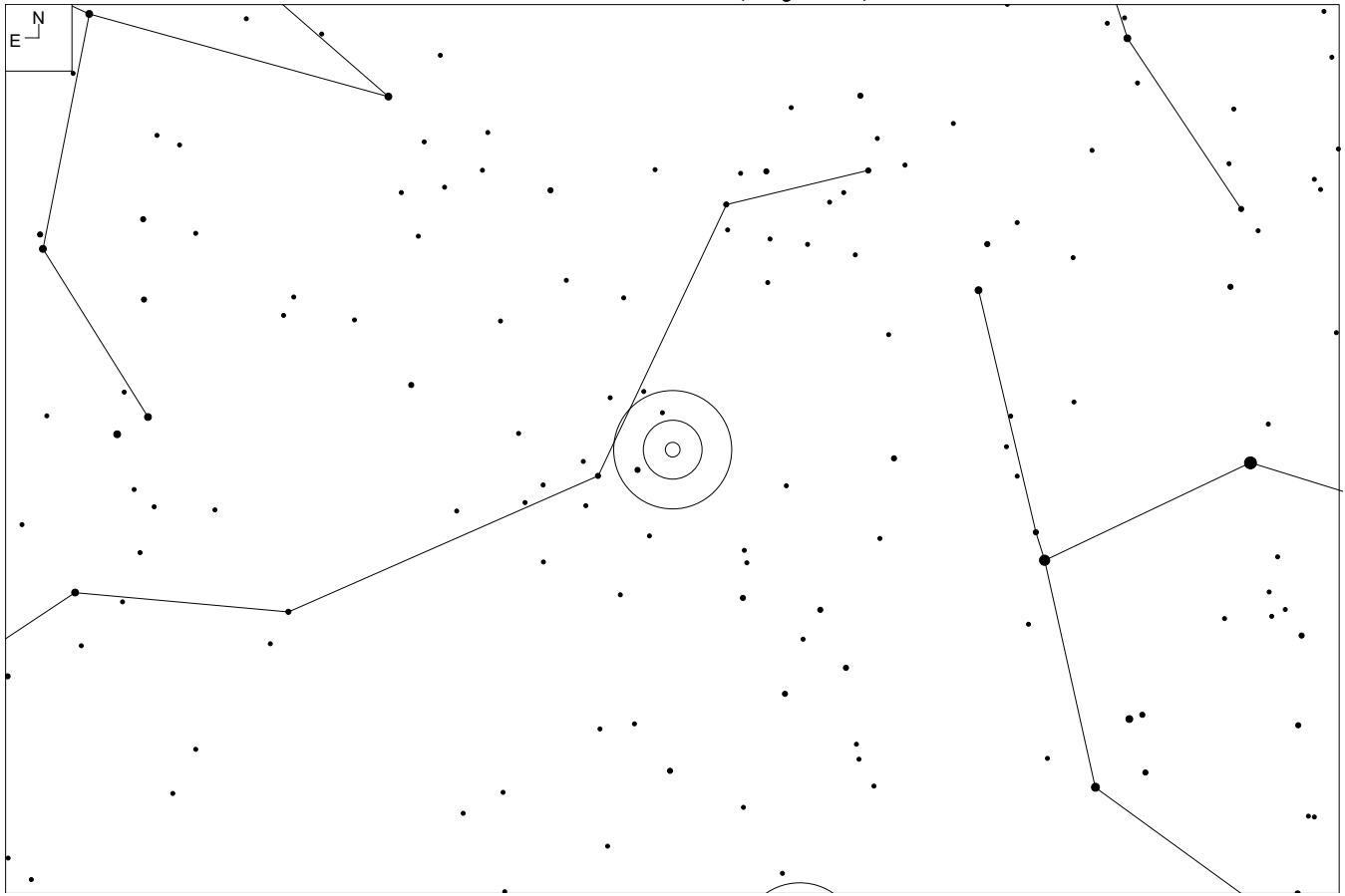


NGC 2289 (Gemini)

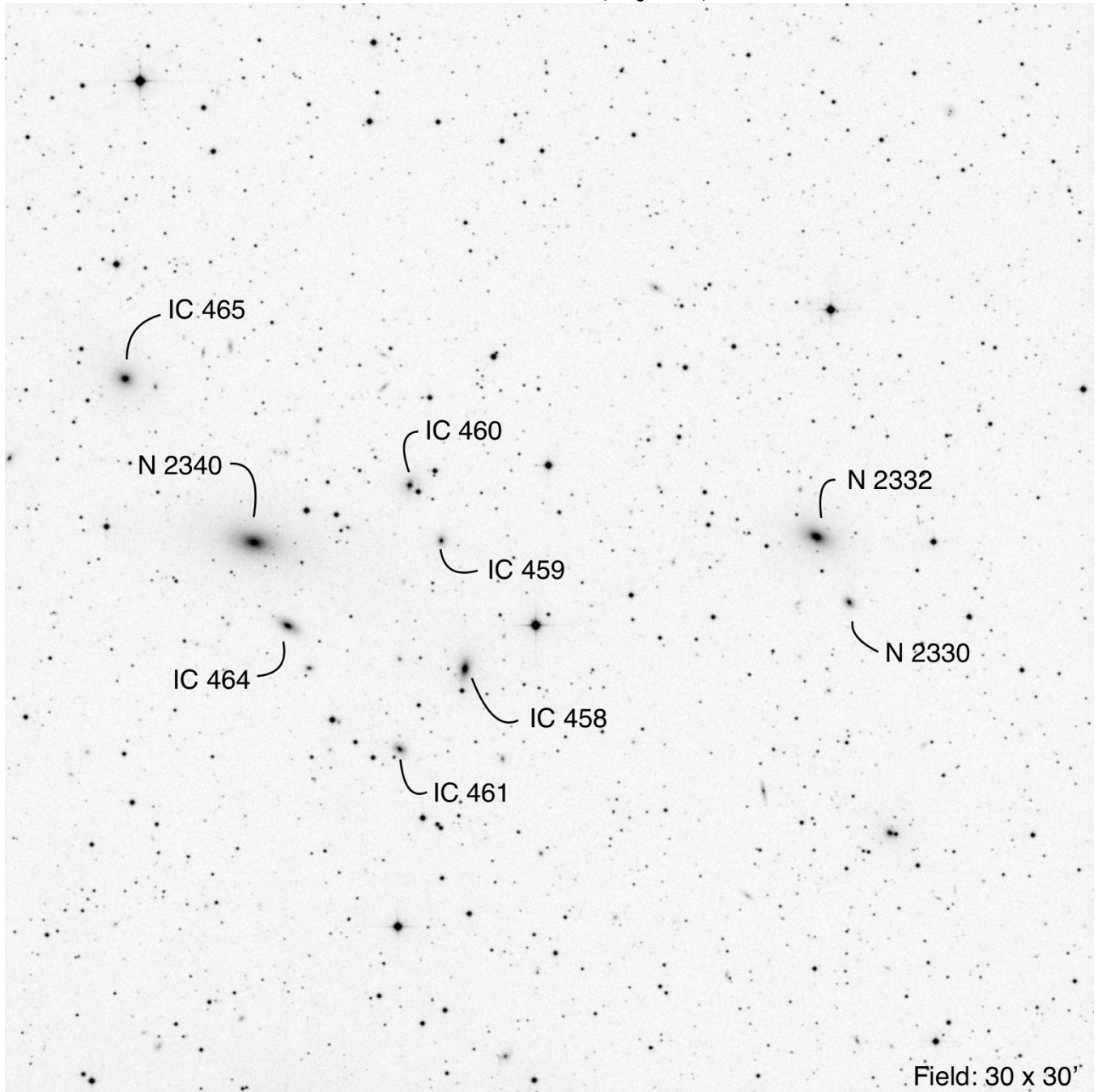


RA	Dec	Mag ₁	# of galaxies	iDSA
06 50 53.6	+33 28 44	13.2	6	36

NGC 2340 (Lynx)

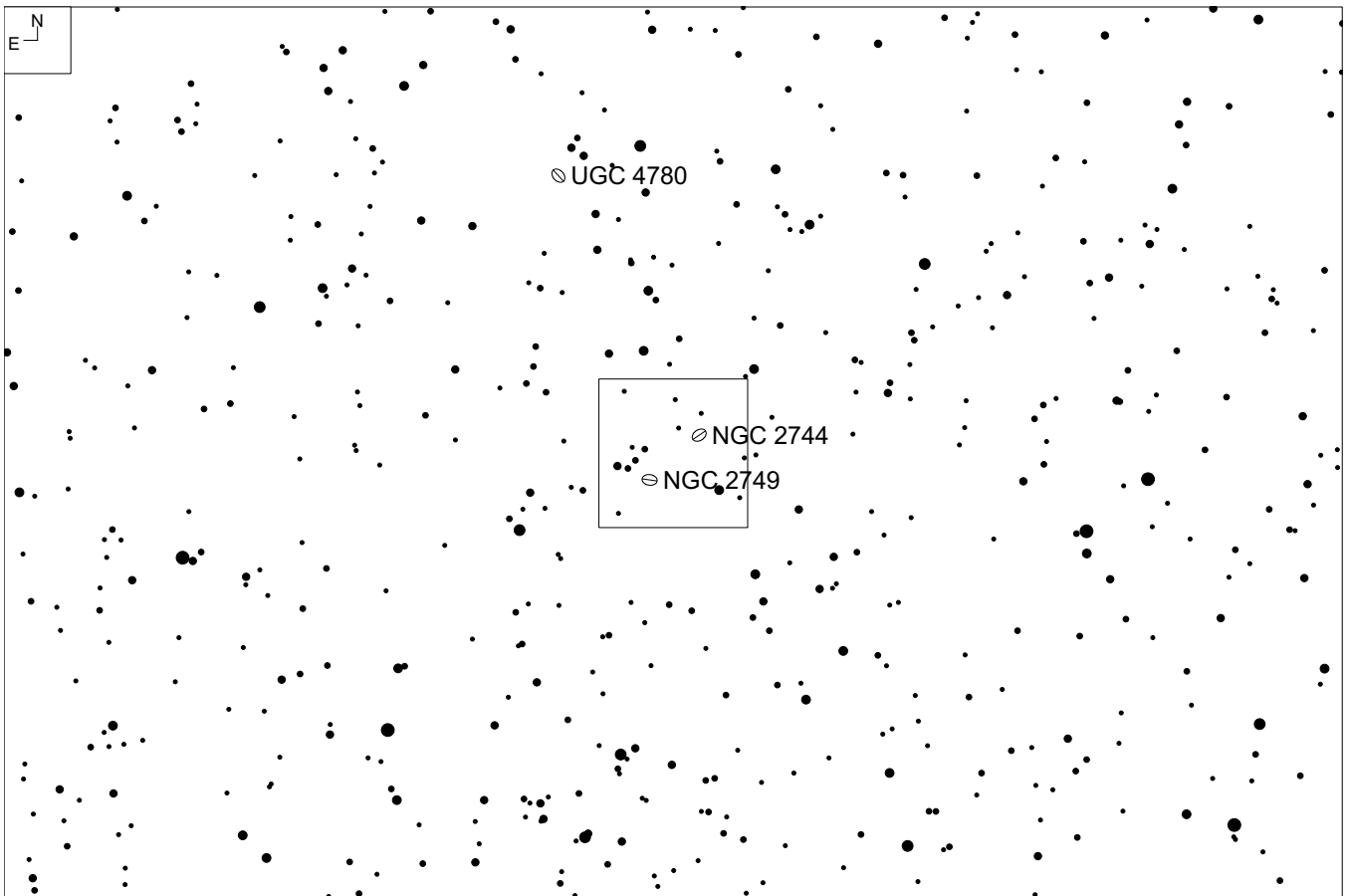
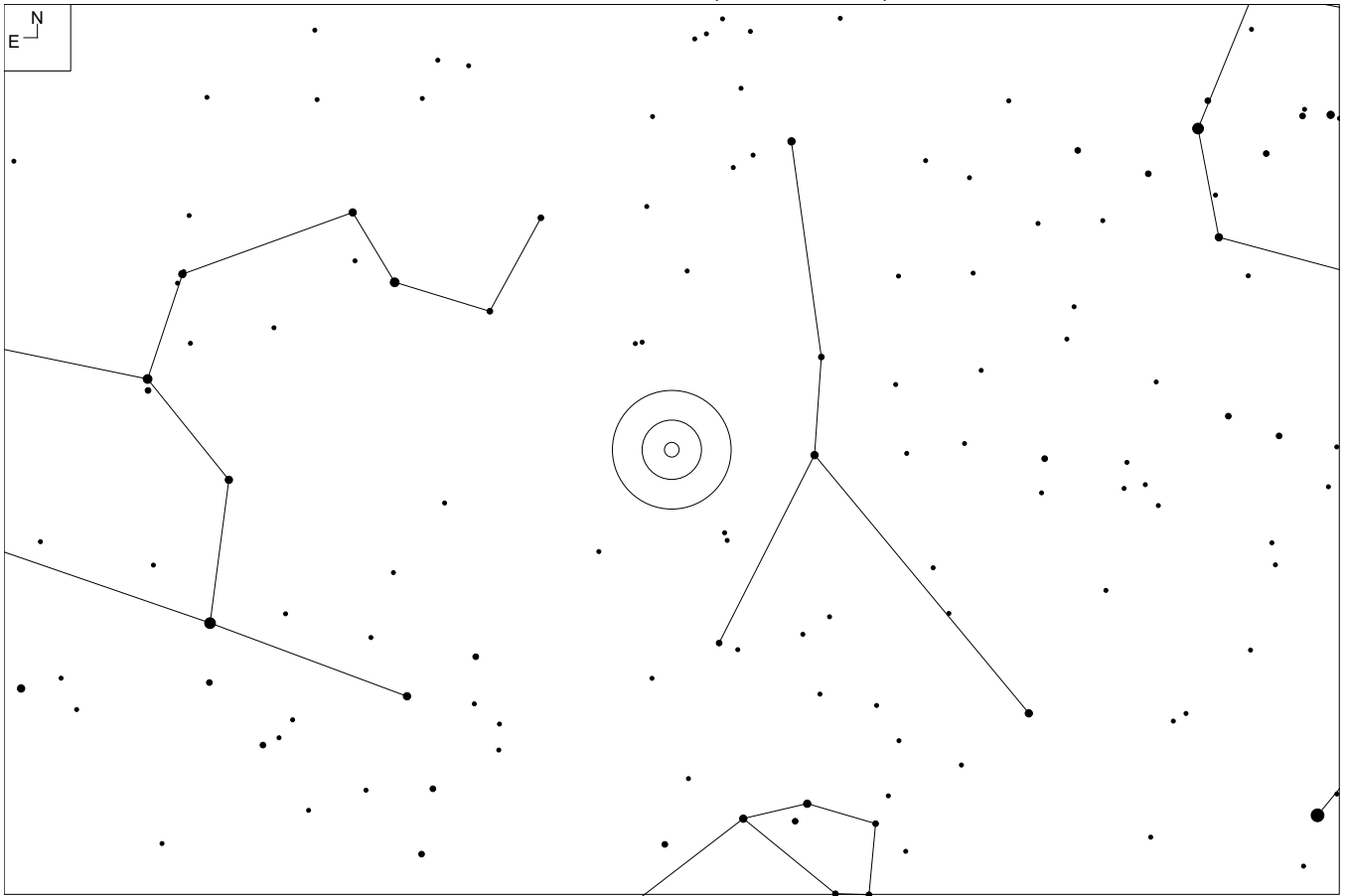


NGC 2340 (Lynx)

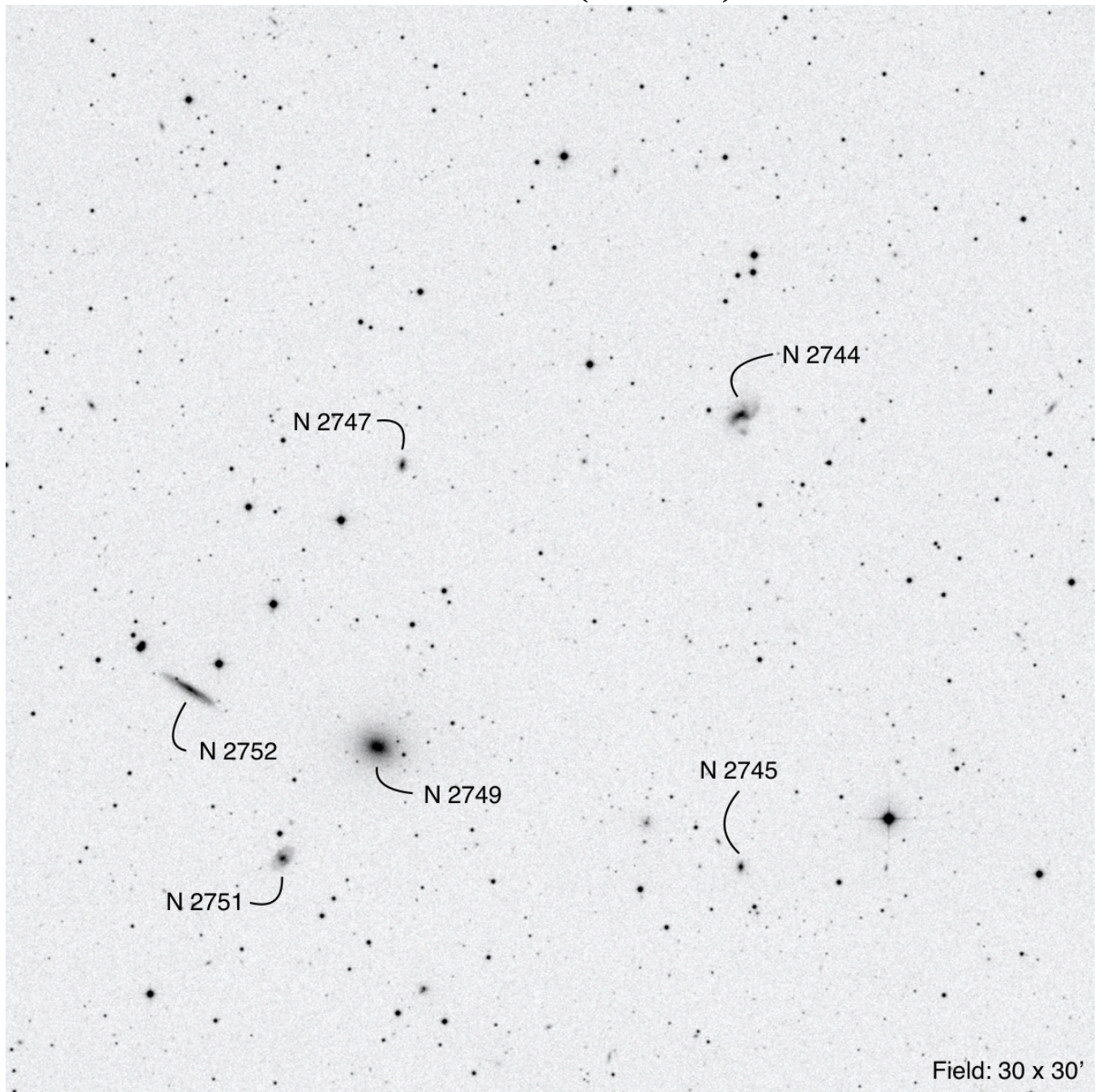


RA	Dec	Mag ₁	# of galaxies	iDSA
07 11 10.7	+50 10 27	11.7	9	D15

NGC 2749 (Cancer)

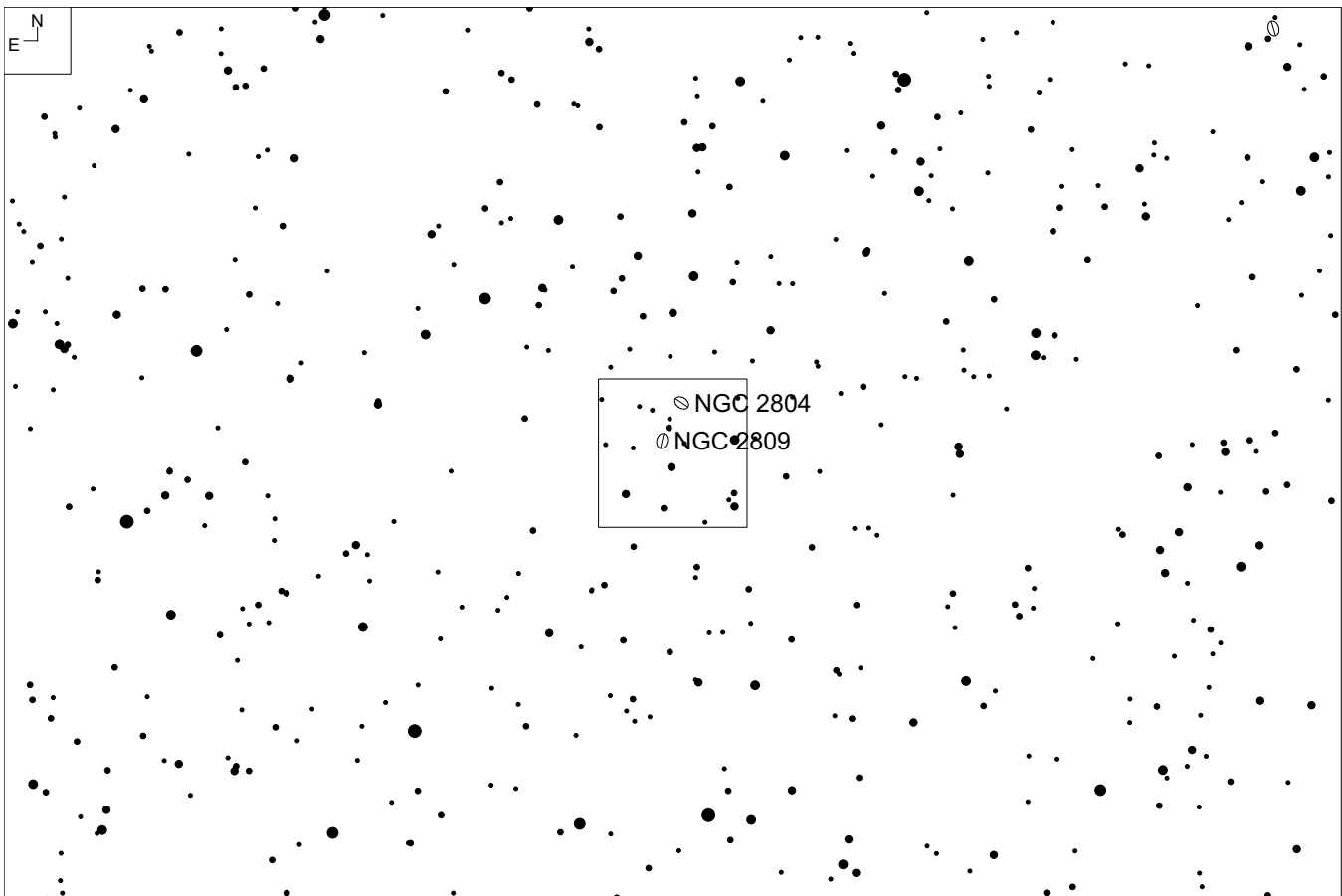
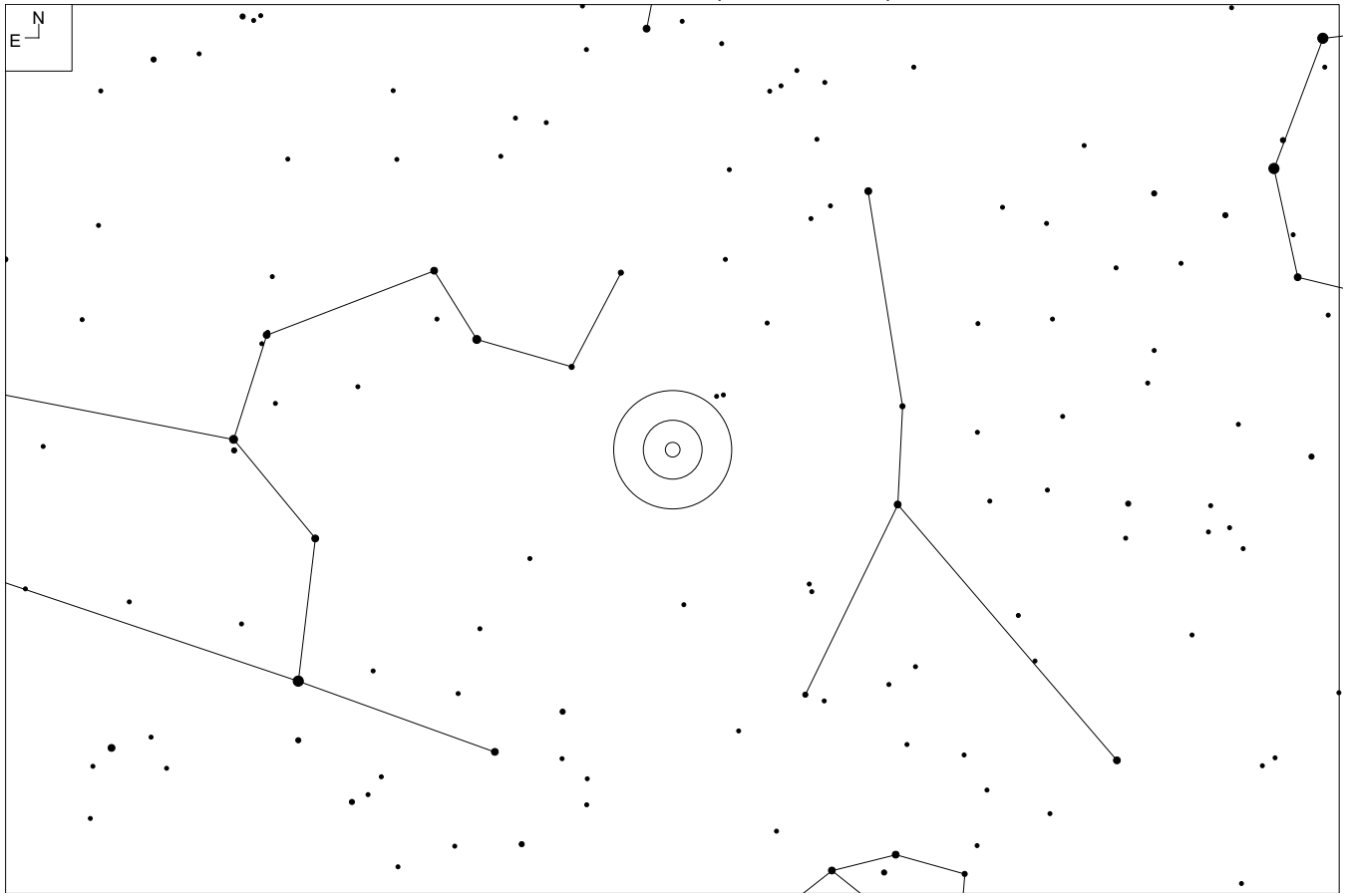


NGC 2749 (Cancer)

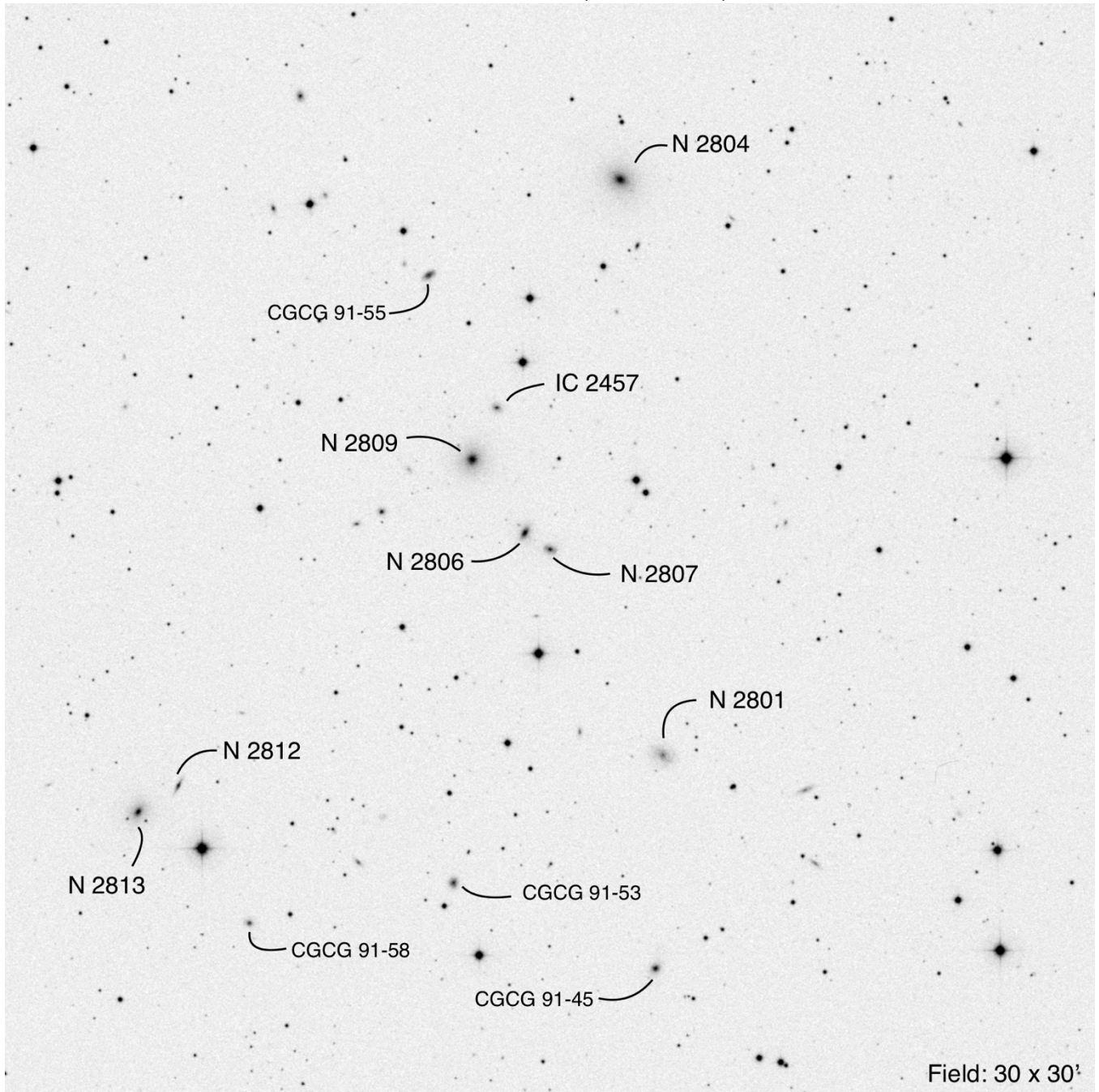


RA	Dec	Mag ₁	# of galaxies	iDSA
09 05 01.2	+18 24 10	11.8	6	47

NGC 2804 (Cancer)

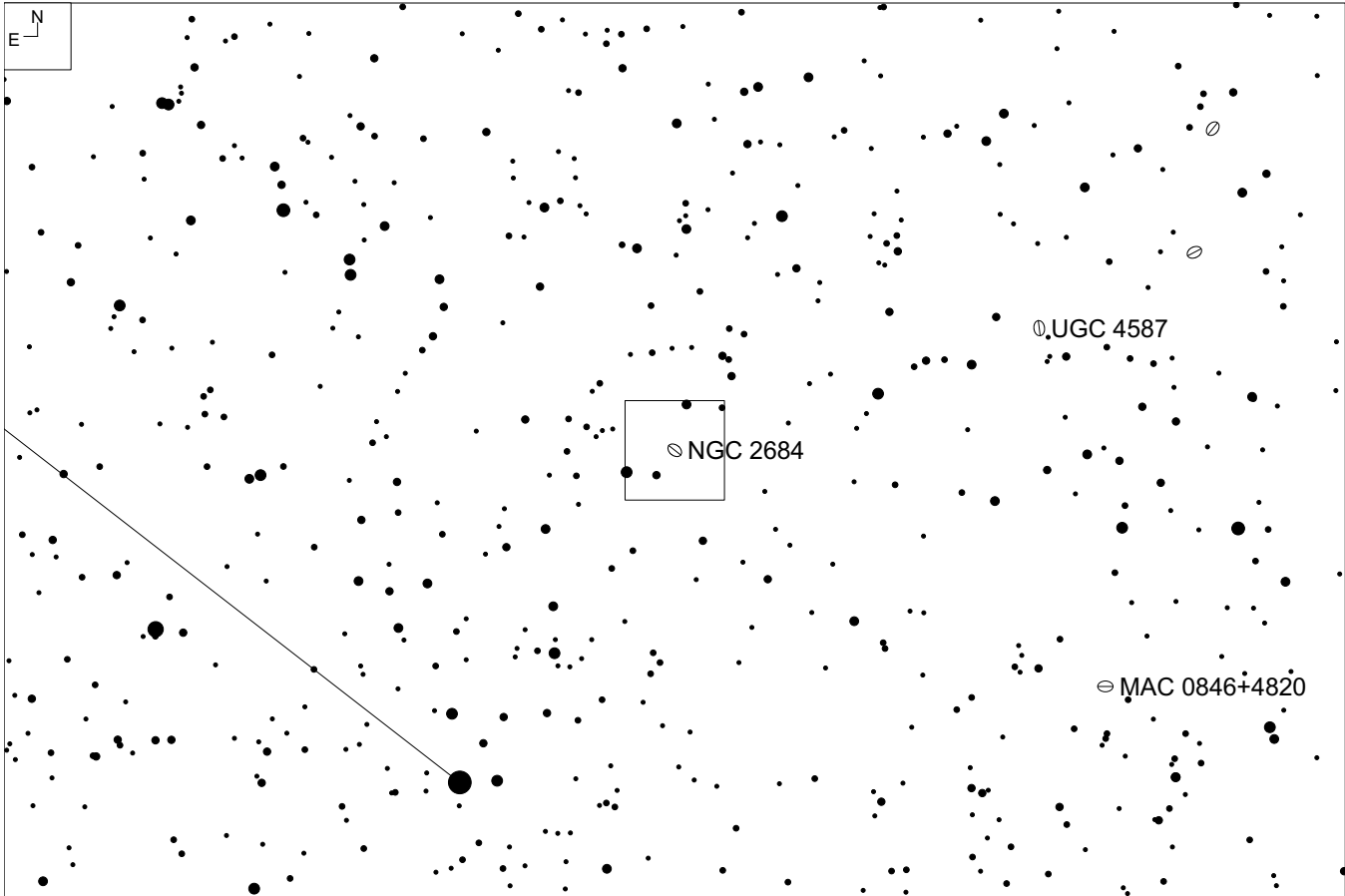
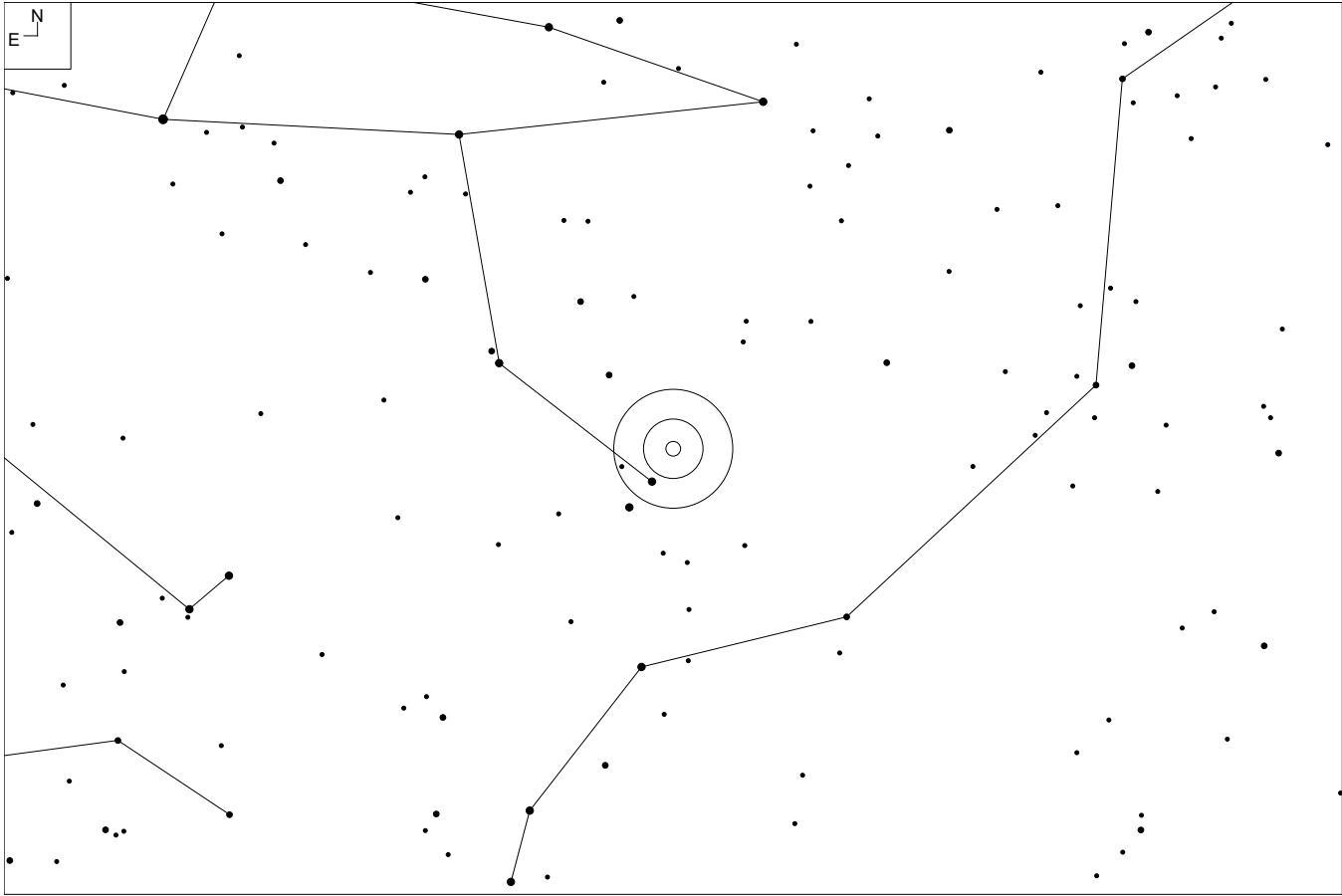


NGC 2804 (Cancer)

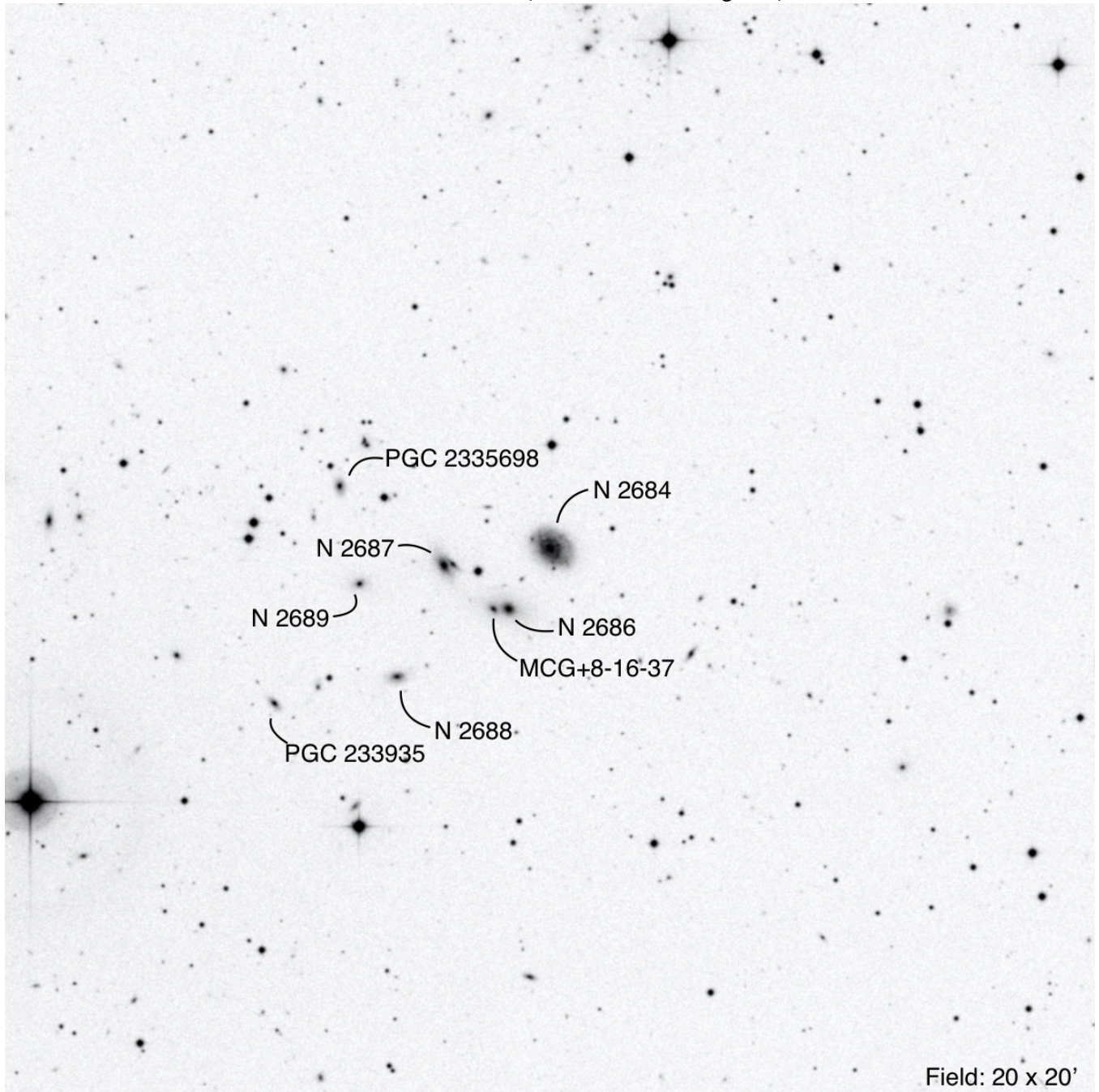


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 1	09 16 50.0	+20 11 54	12.8	12	47

NGC 2684 (URSA Major)

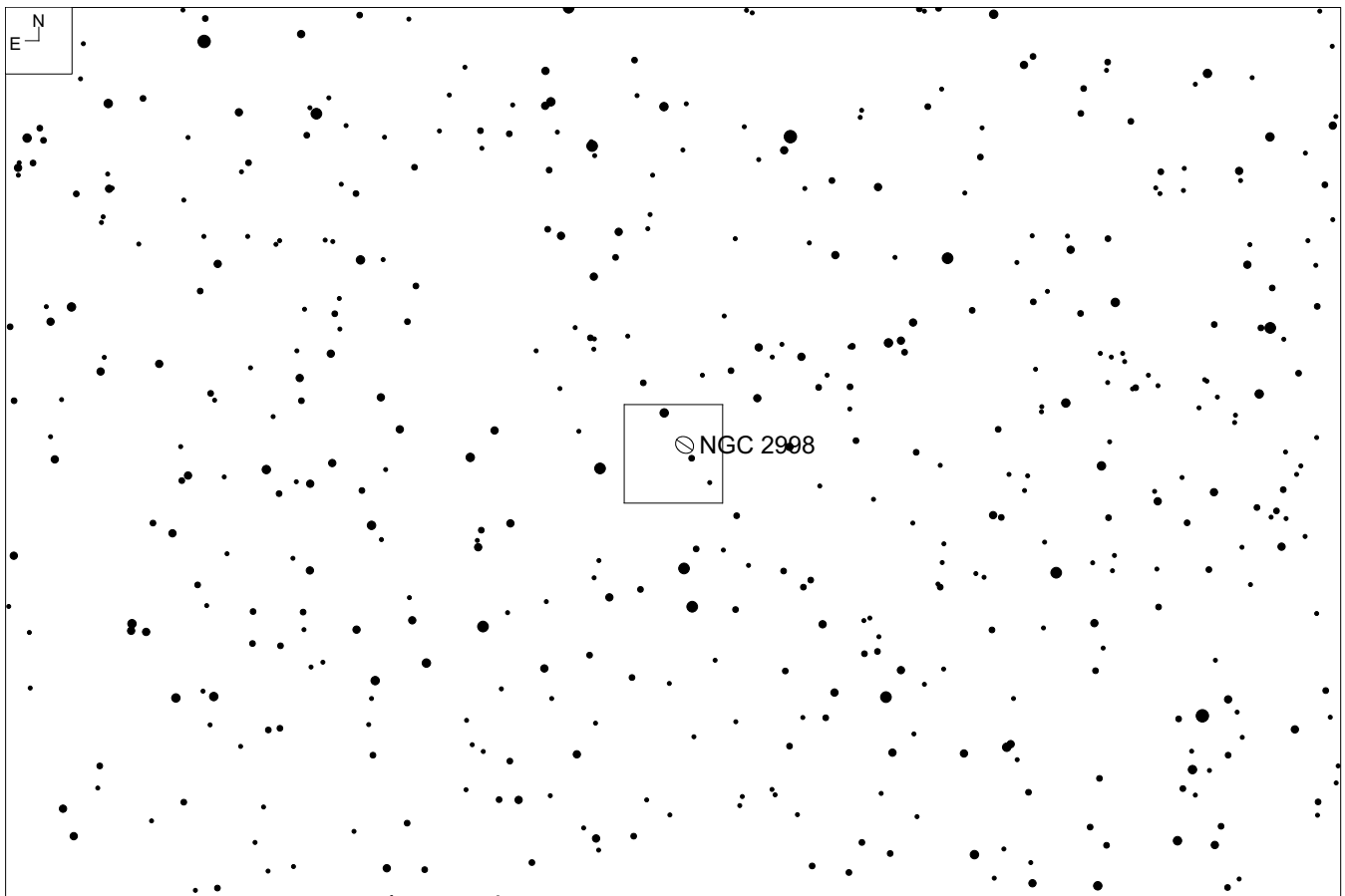
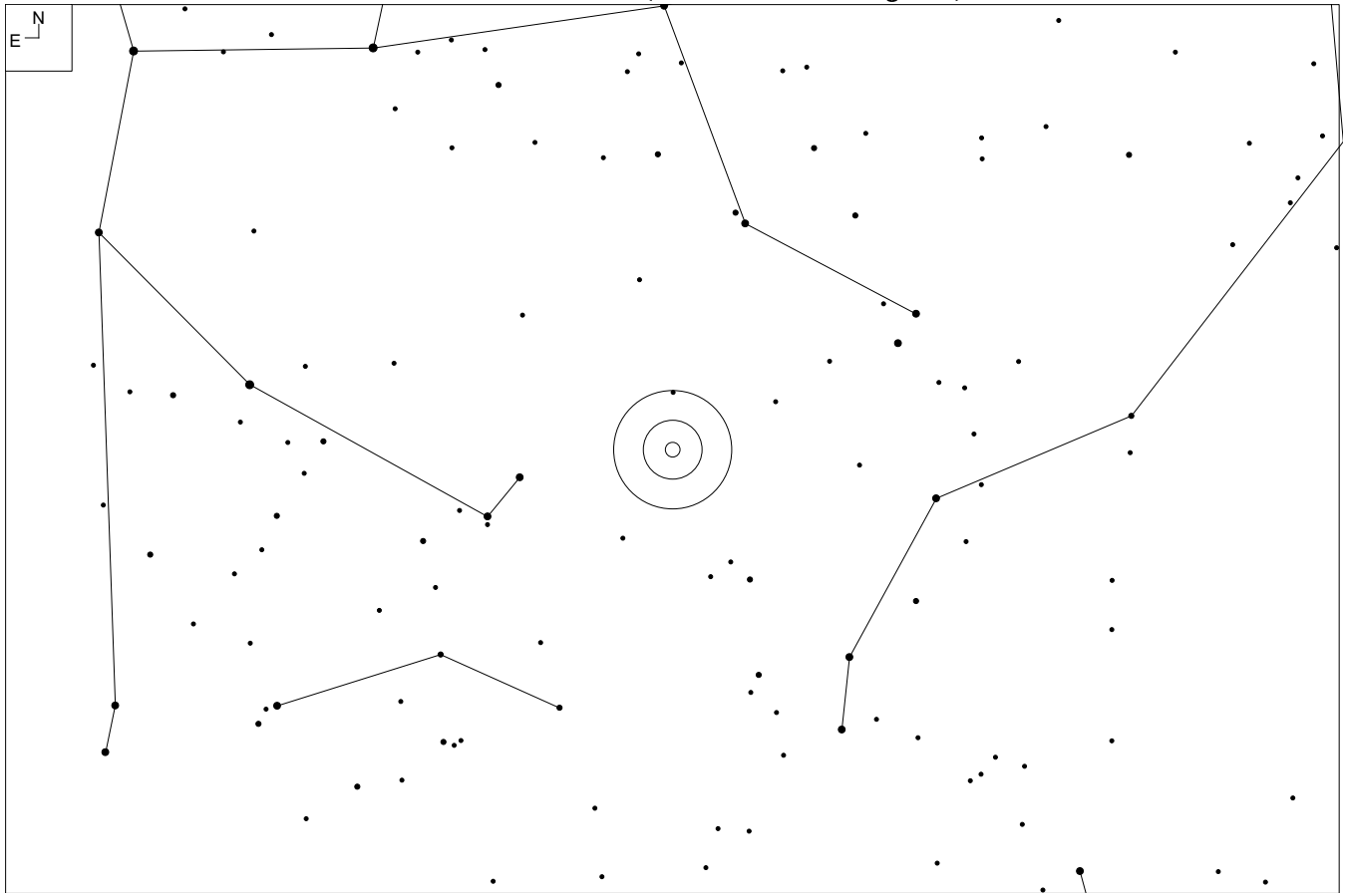


NGC 2684 (URSA Major)

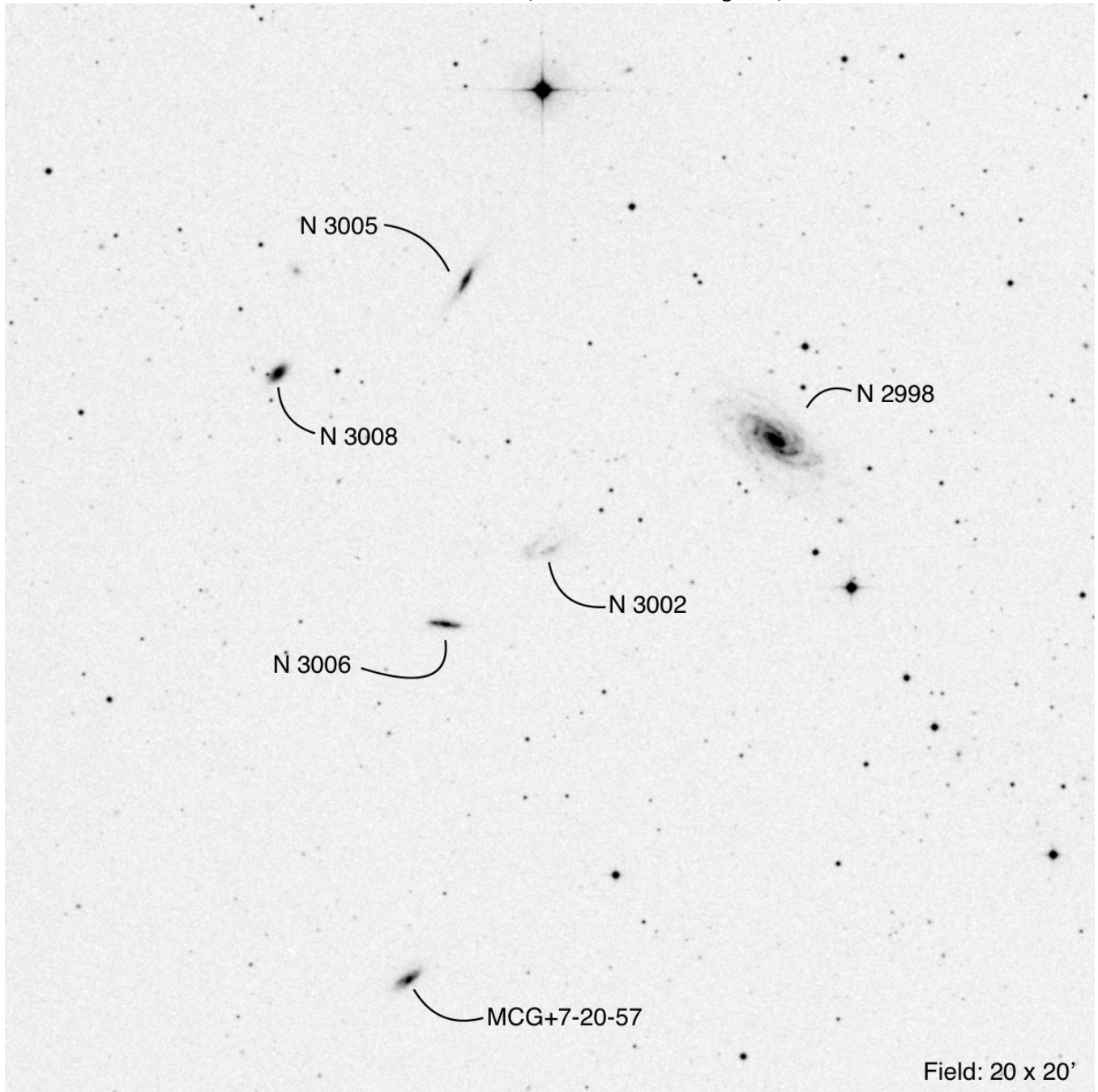


RA	Dec	Mag ₁	# of galaxies	iDSA
08 54 54.0	+49 09 38	13.4	8	23

NGC 2998 (URSA Major)

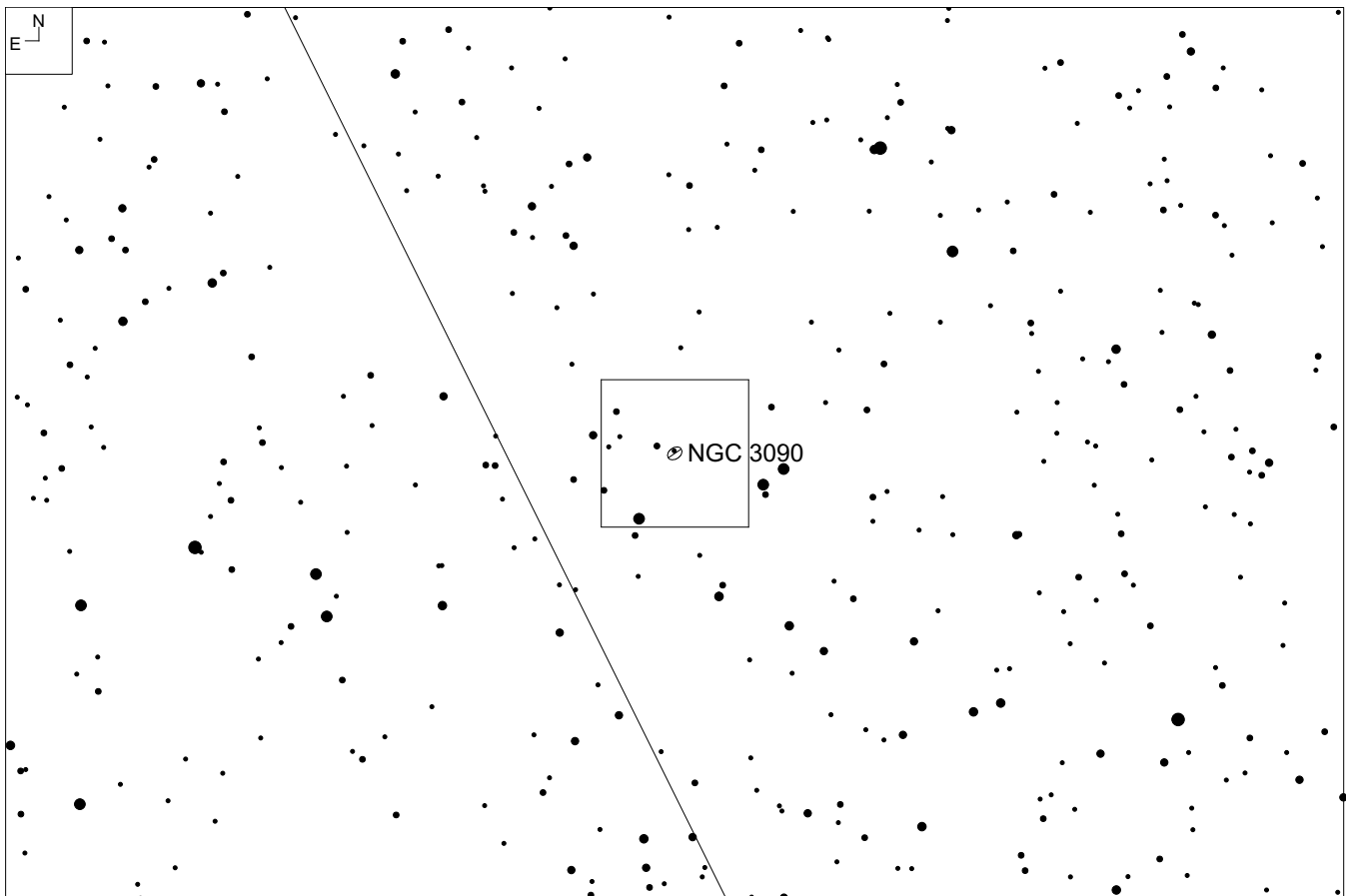
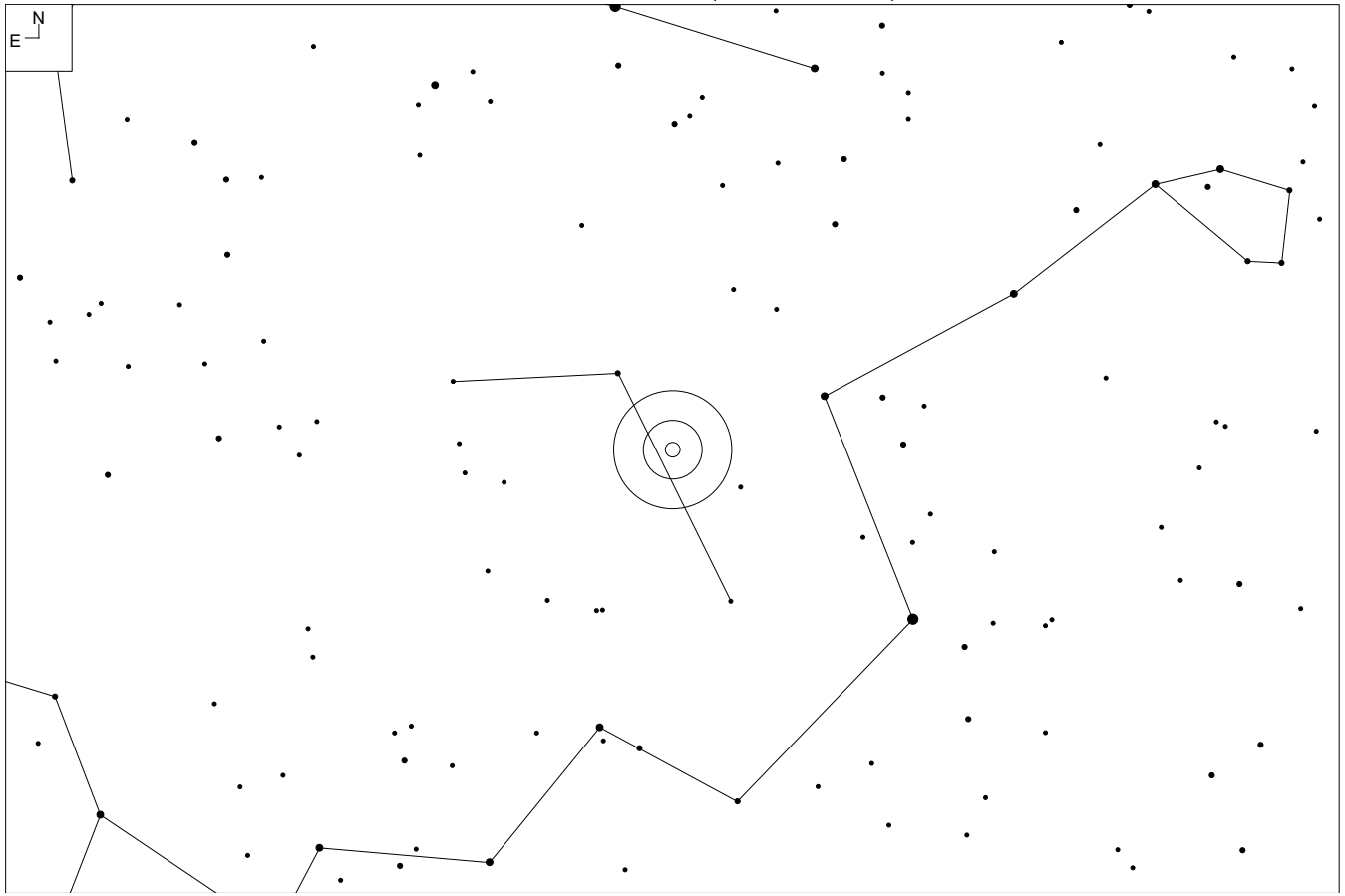


NGC 2998 (URSA Major)

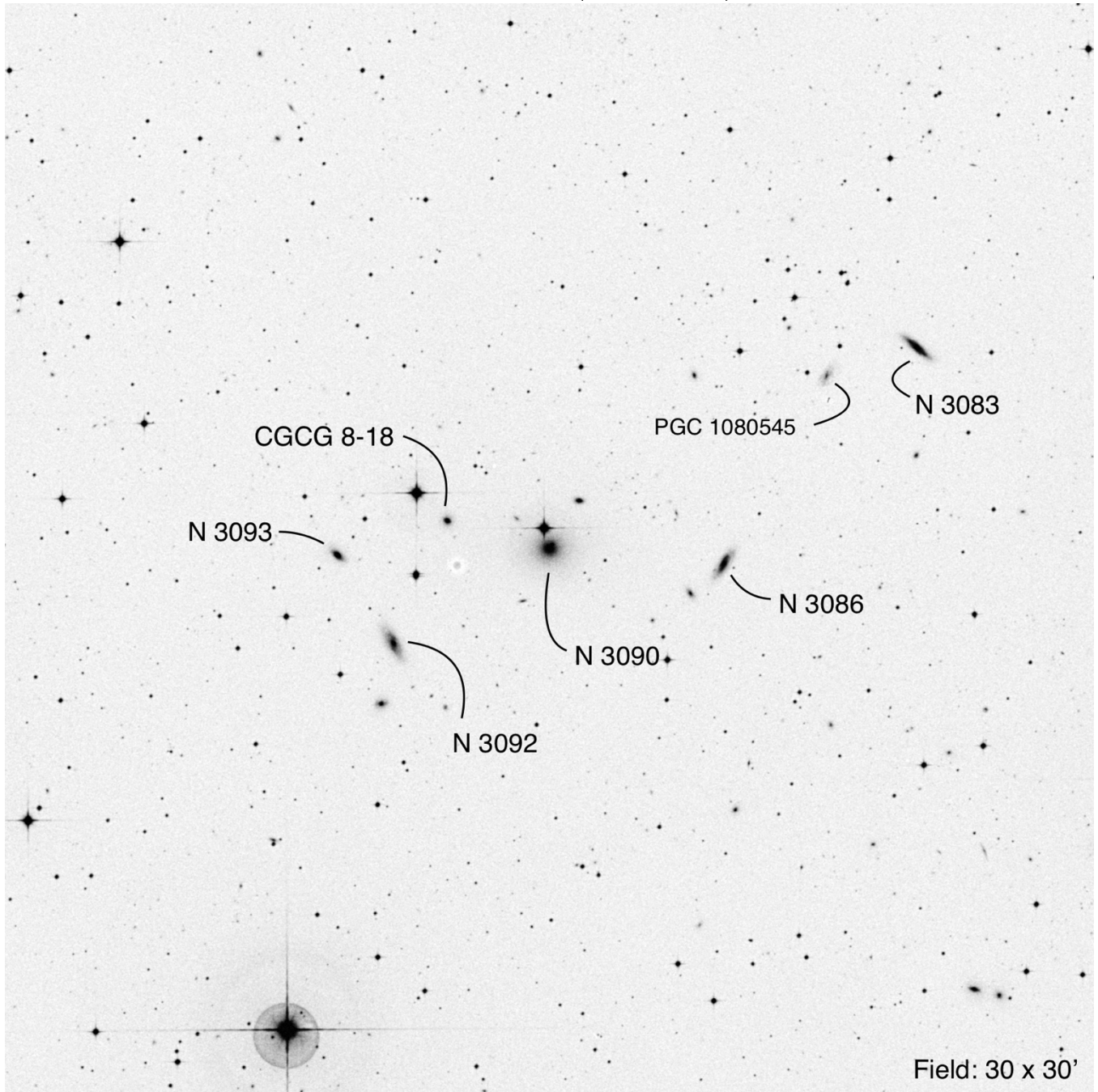


RA	Dec	Mag ₁	# of galaxies	iDSA
09 48 43.7	+44 04 52	12.5	6	22, 23

NGC 3090 (Sextans)

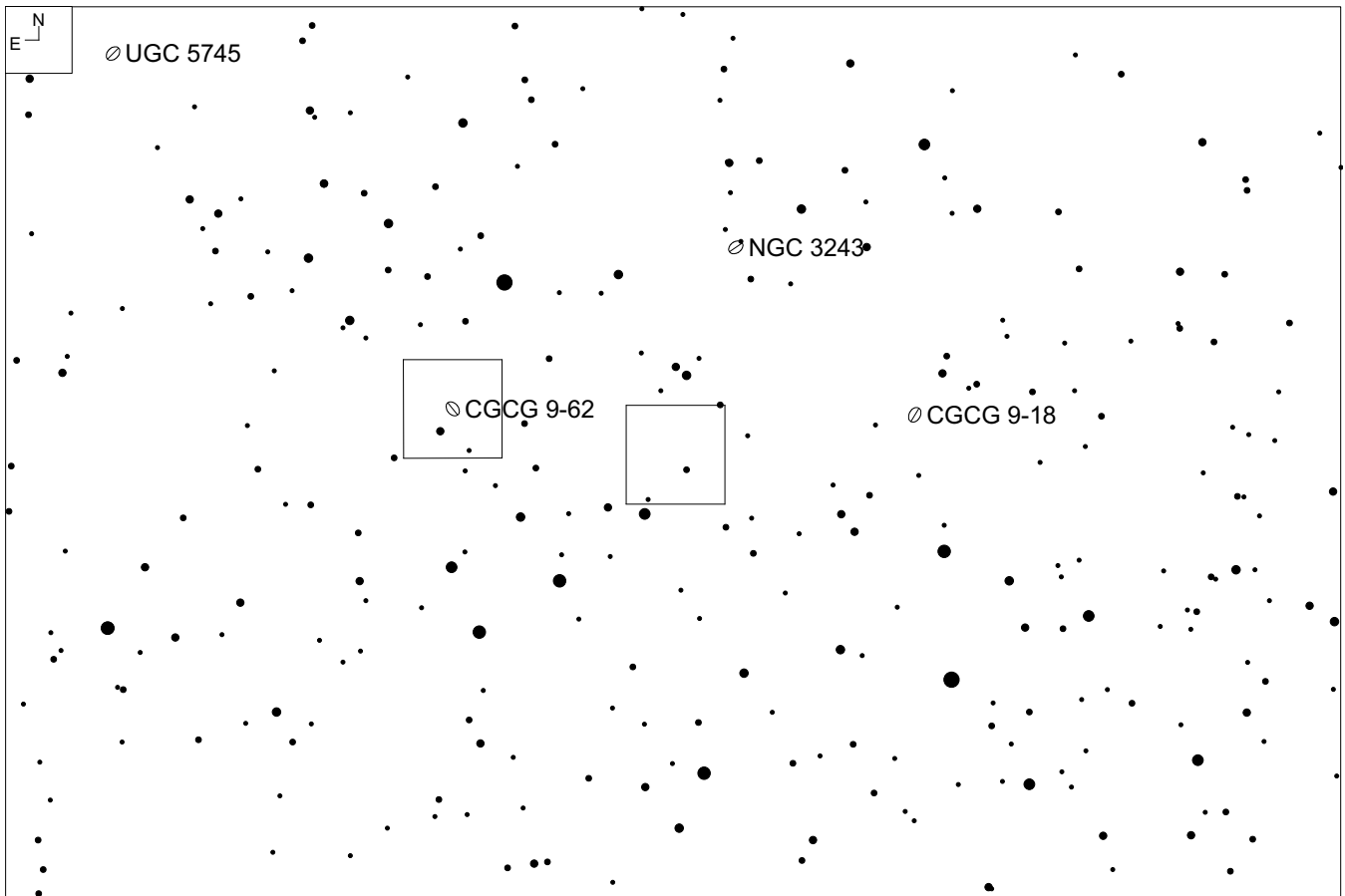
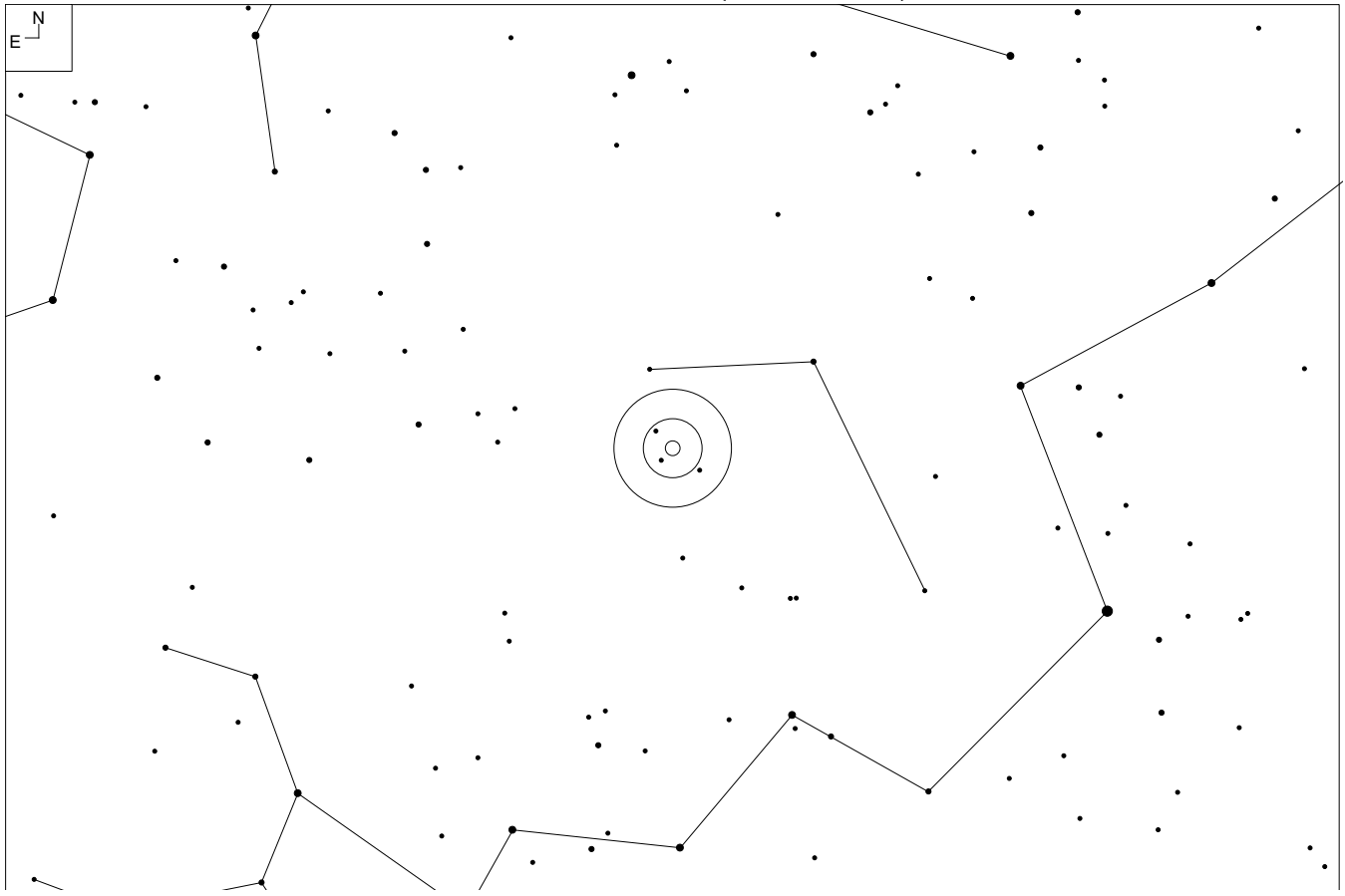


NGC 3090 (Sextans)

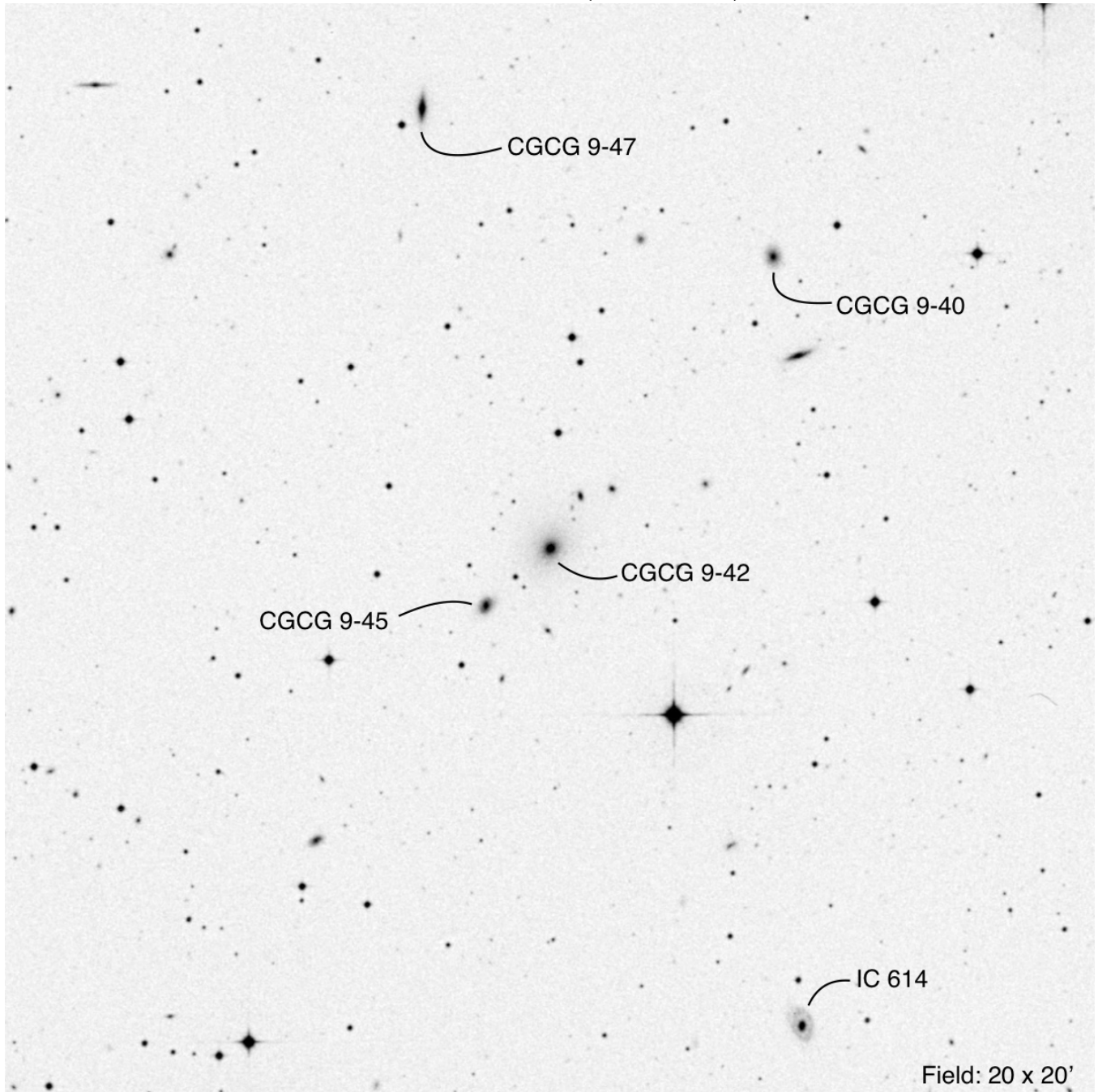


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 1	10 00 30.2	-02 58 08	13.6	7	58, 59

CGCG 9-42 (Sextans)

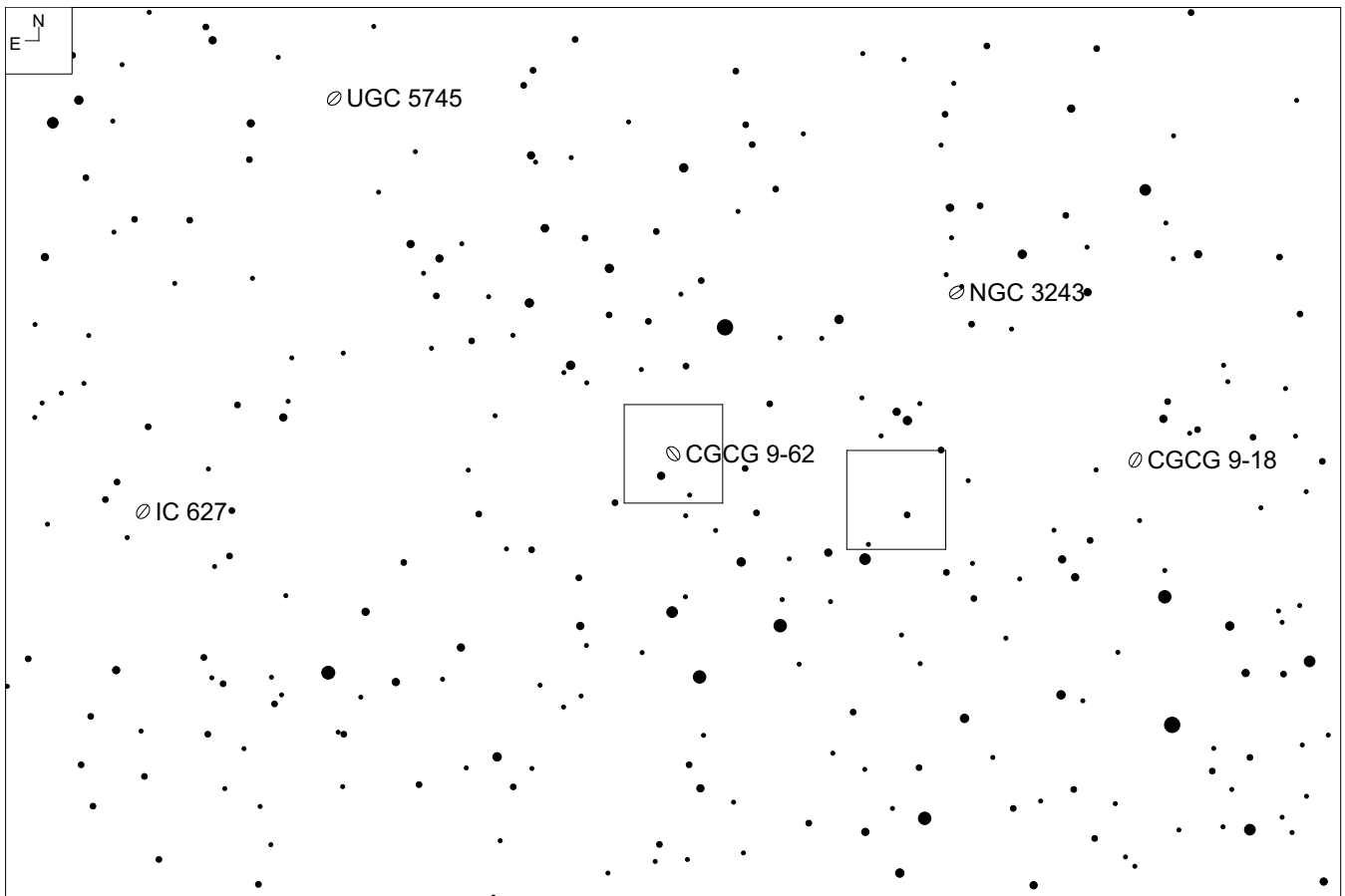
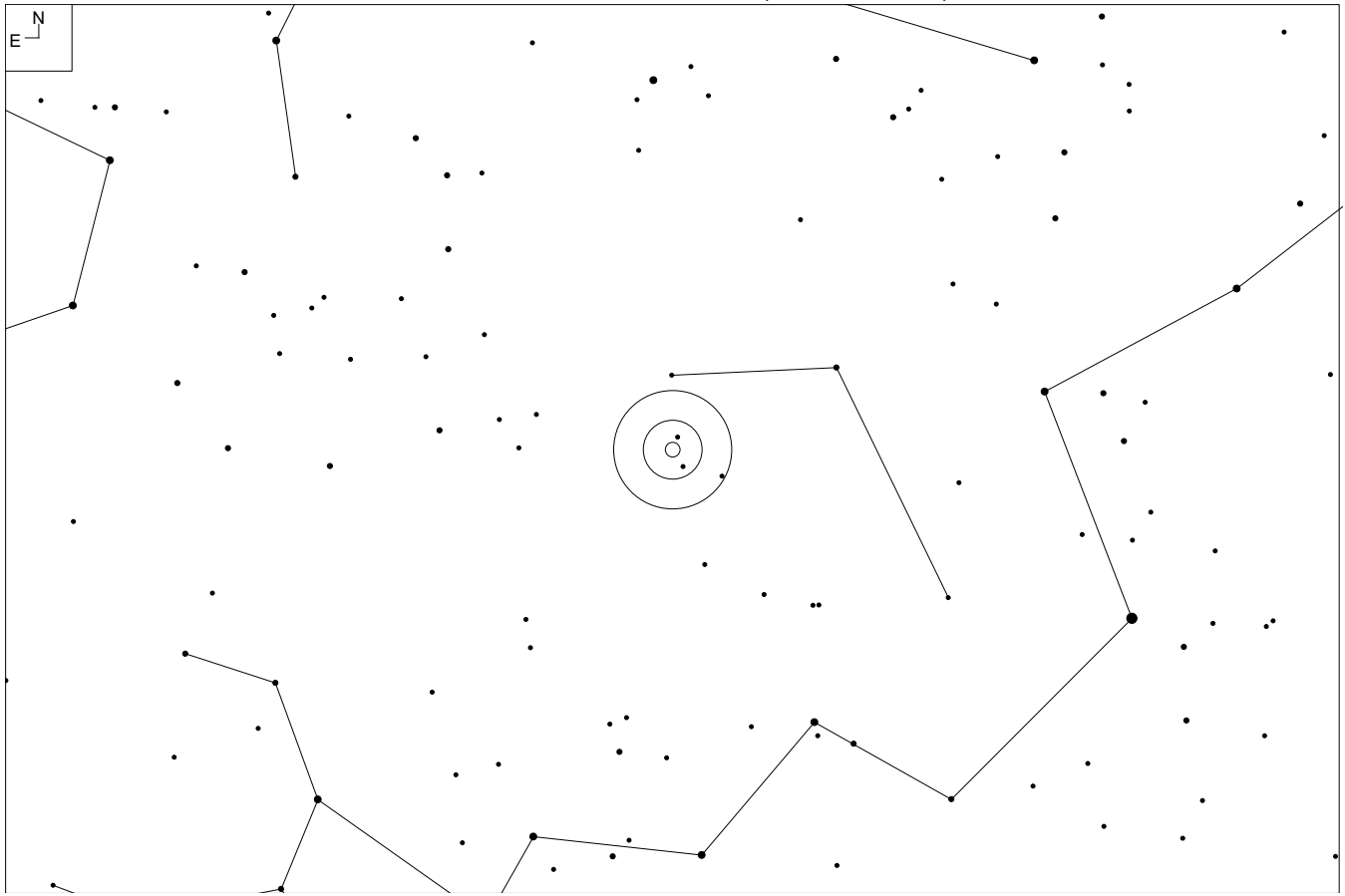


CGCG 9-42 (Sextans)

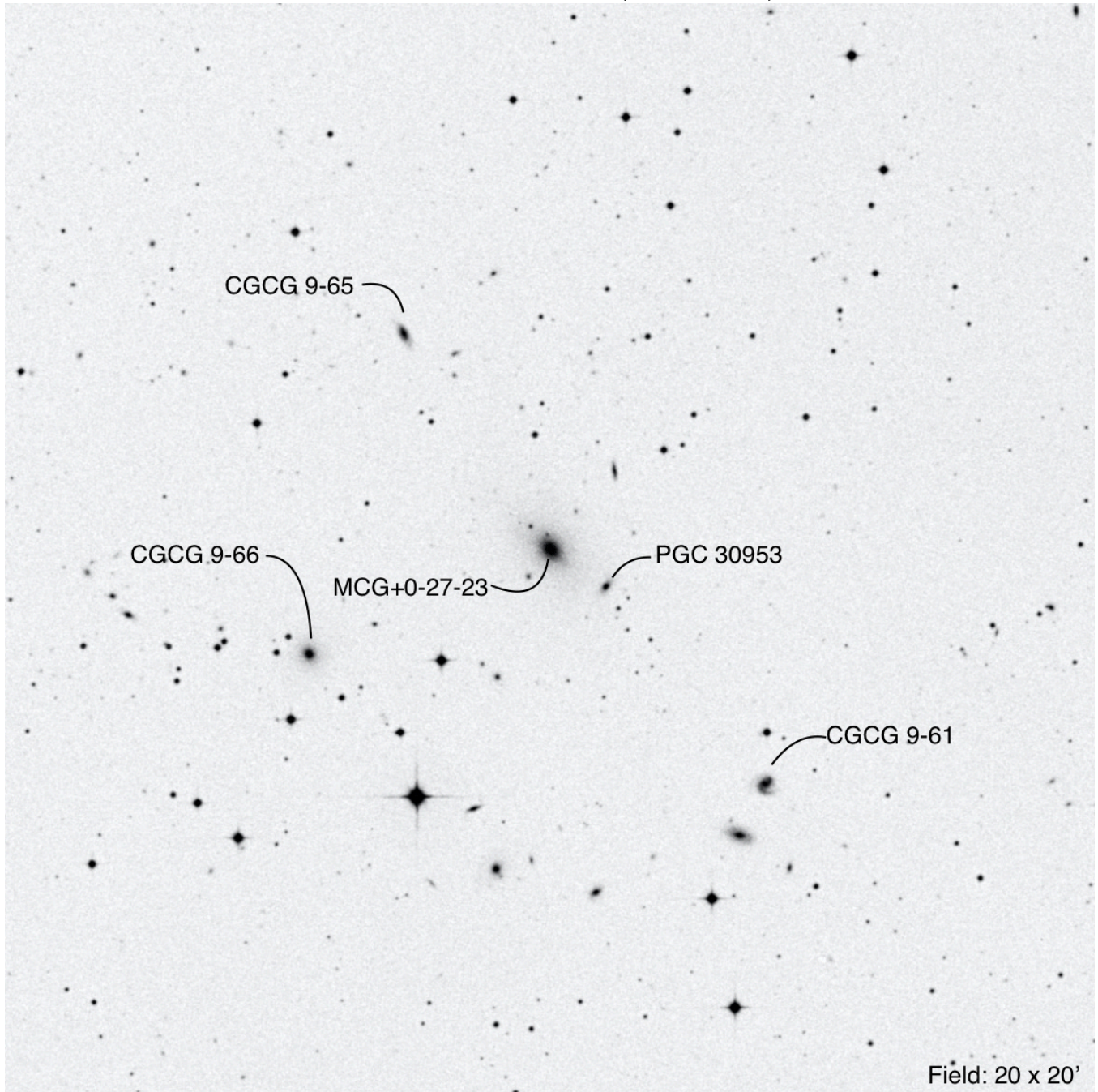


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW2s	10 27 10.2	-03 19 06	14.6	5	58

MCG +0-27-23 (Sextans)

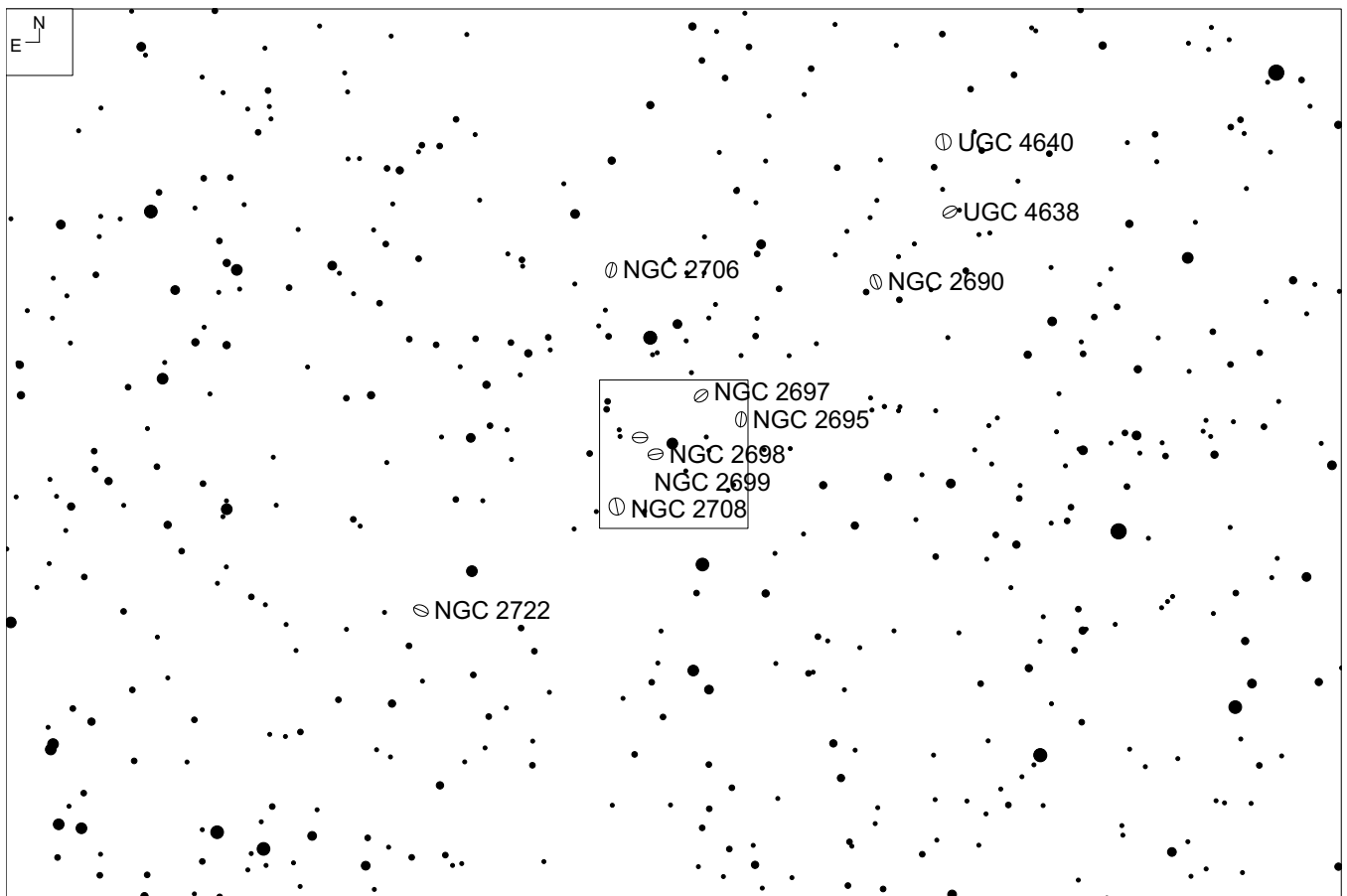
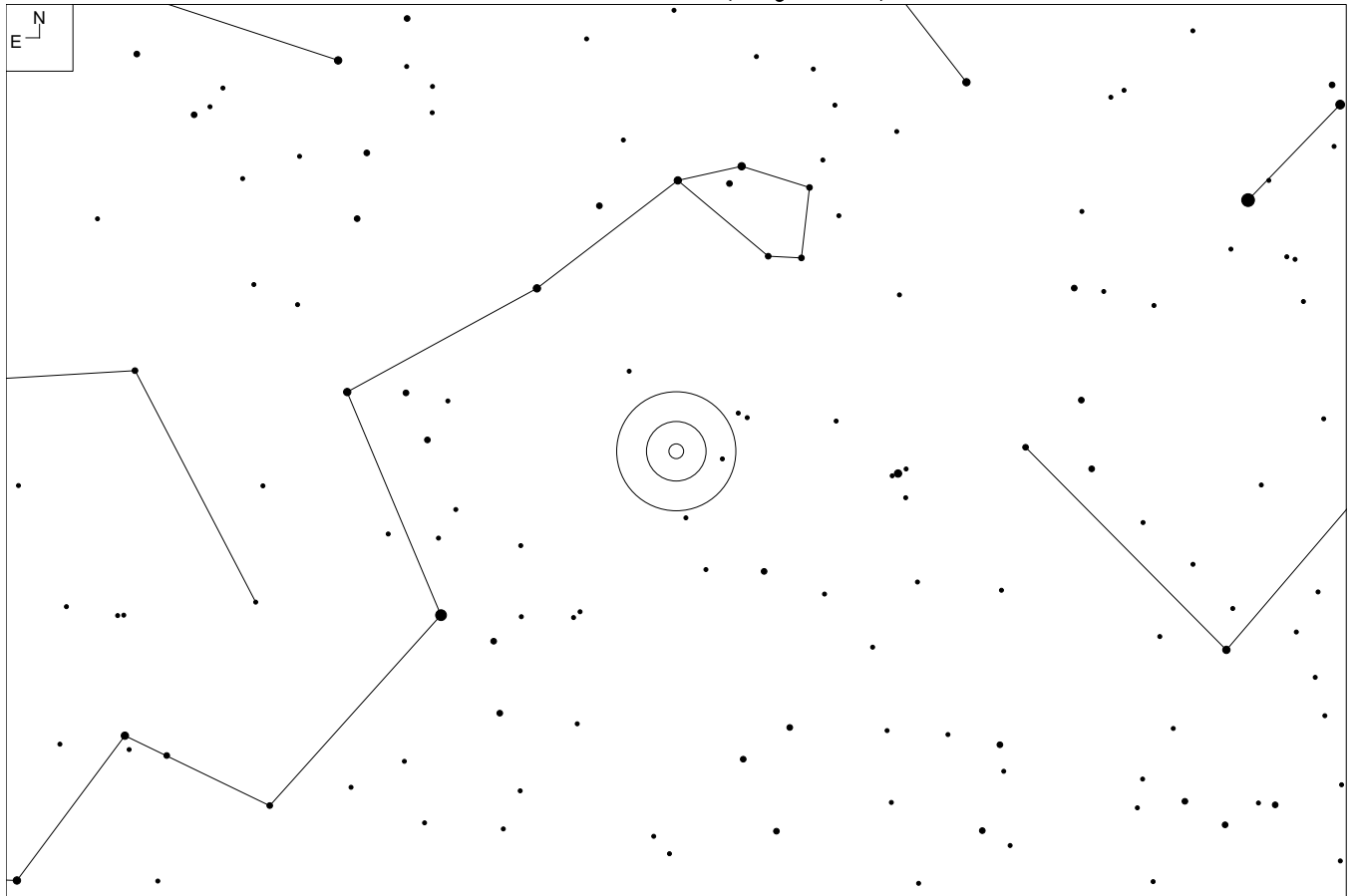


MCG +0-27-23 (Sextans)

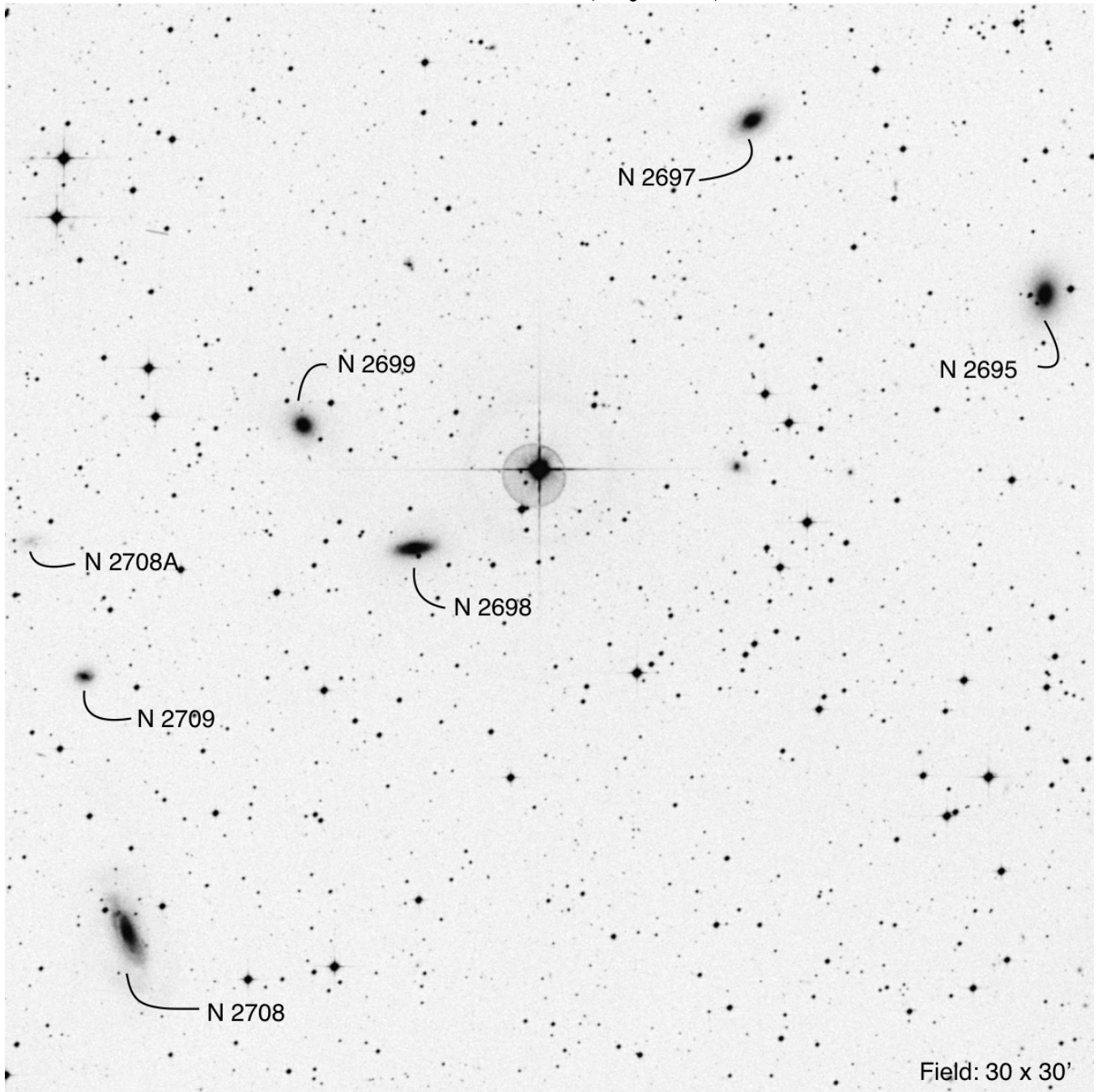


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 2	10 30 10.6	-03 09 50	13.8	5	58

NGC 2708 (Hydra)

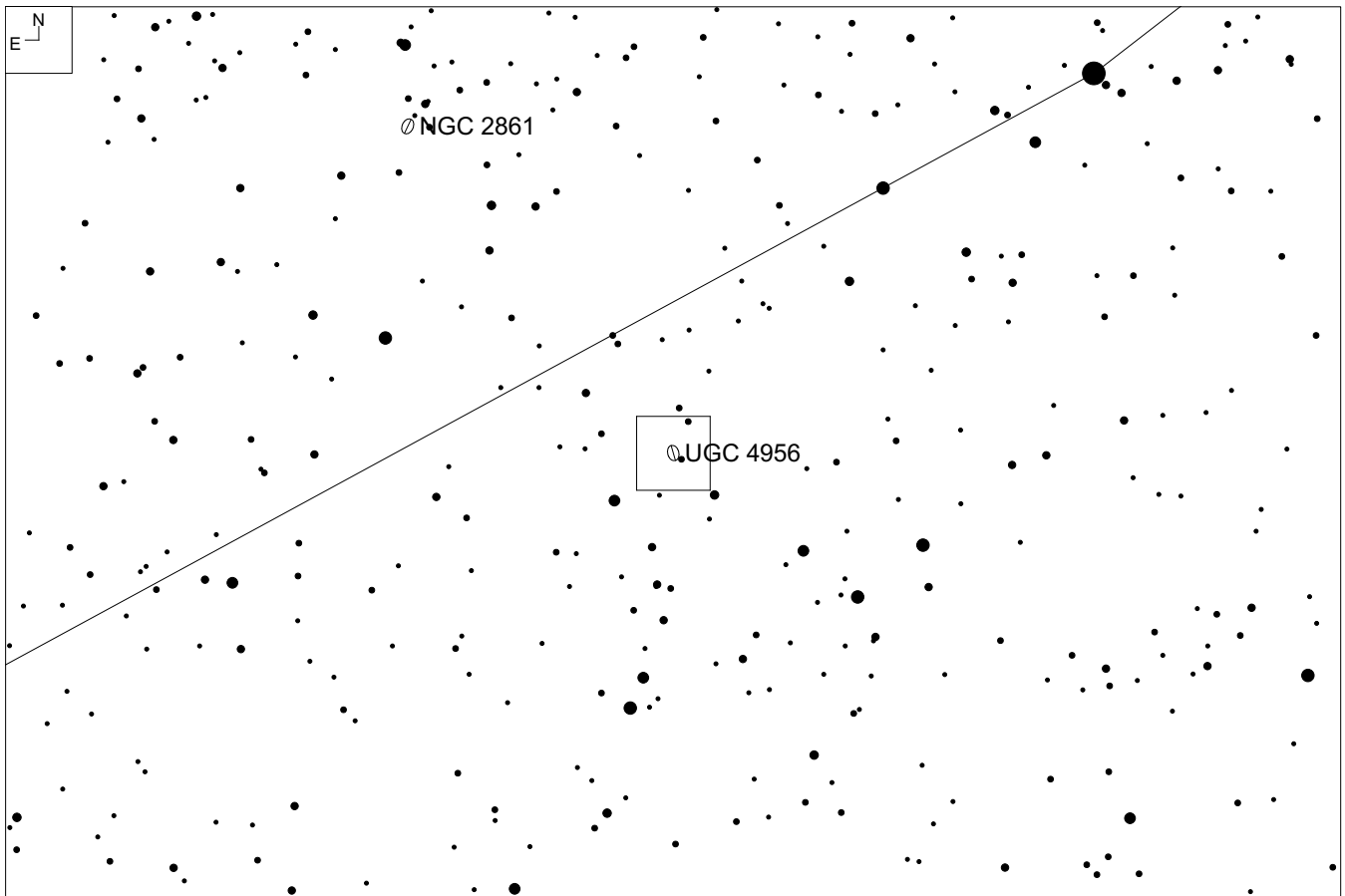
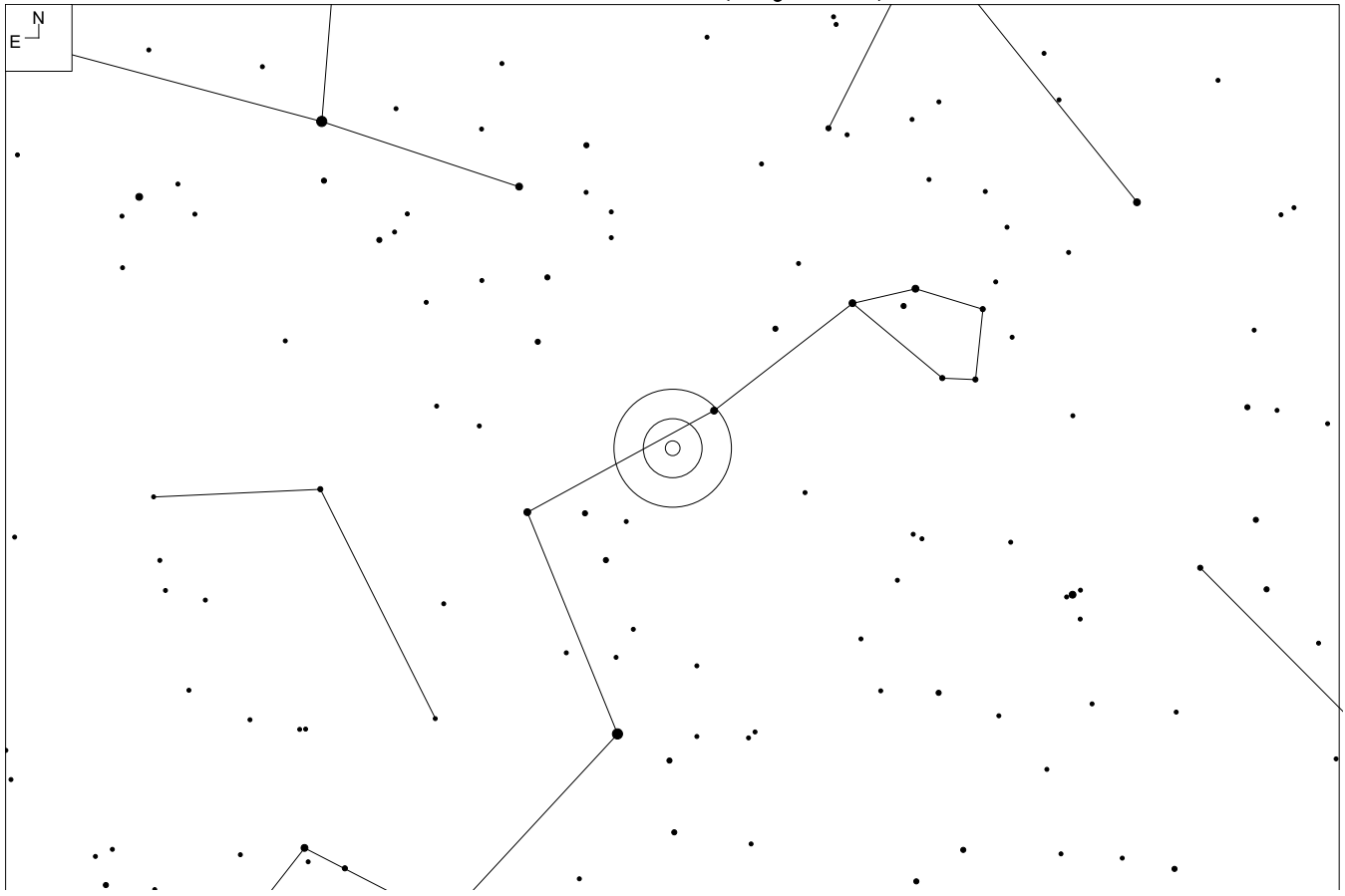


NGC 2708 (Hydra)

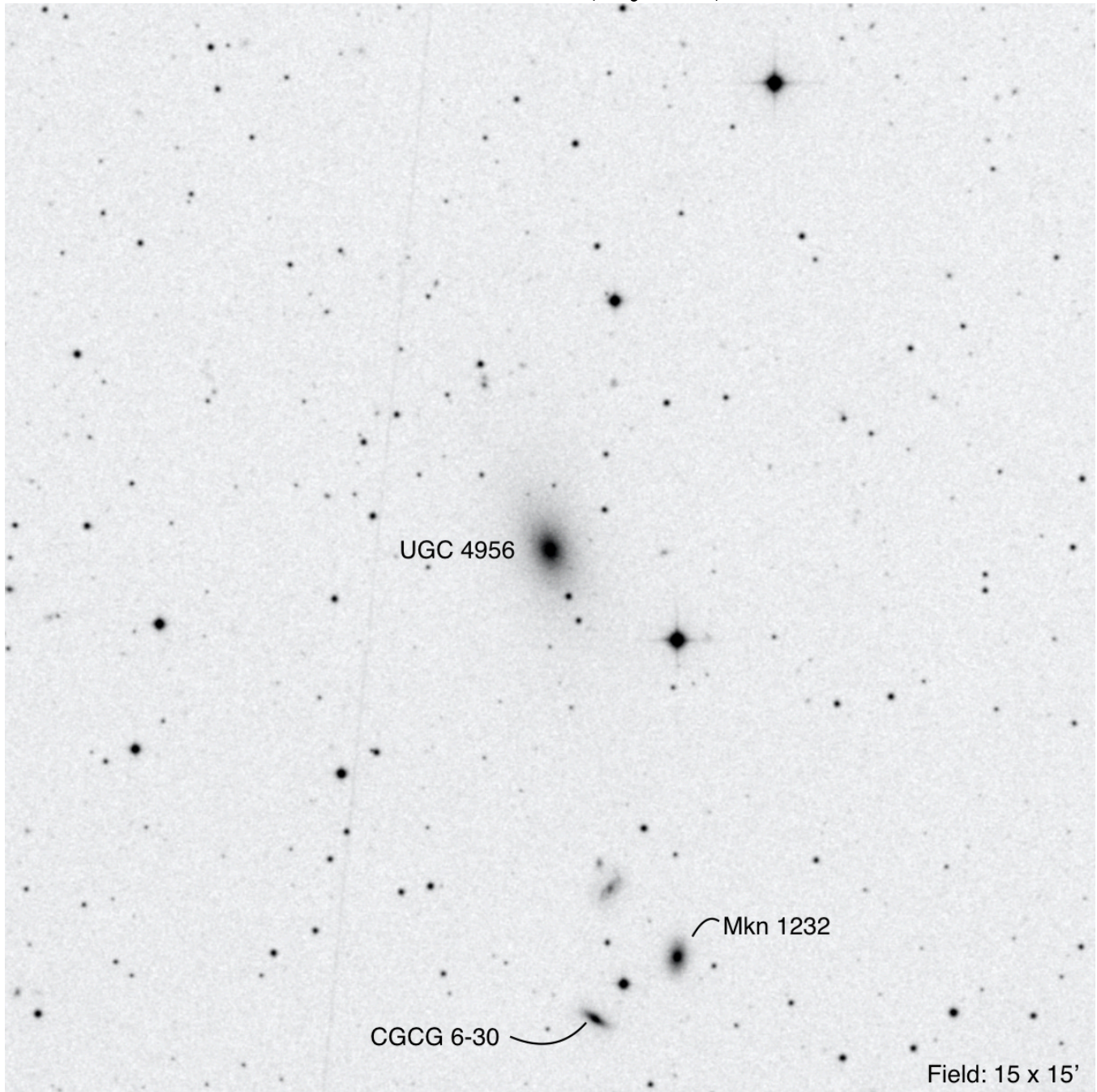


RA	Dec	Mag ₁	# of galaxies	iDSA
08 55 21.6	-03 11 02	12.6	7	59

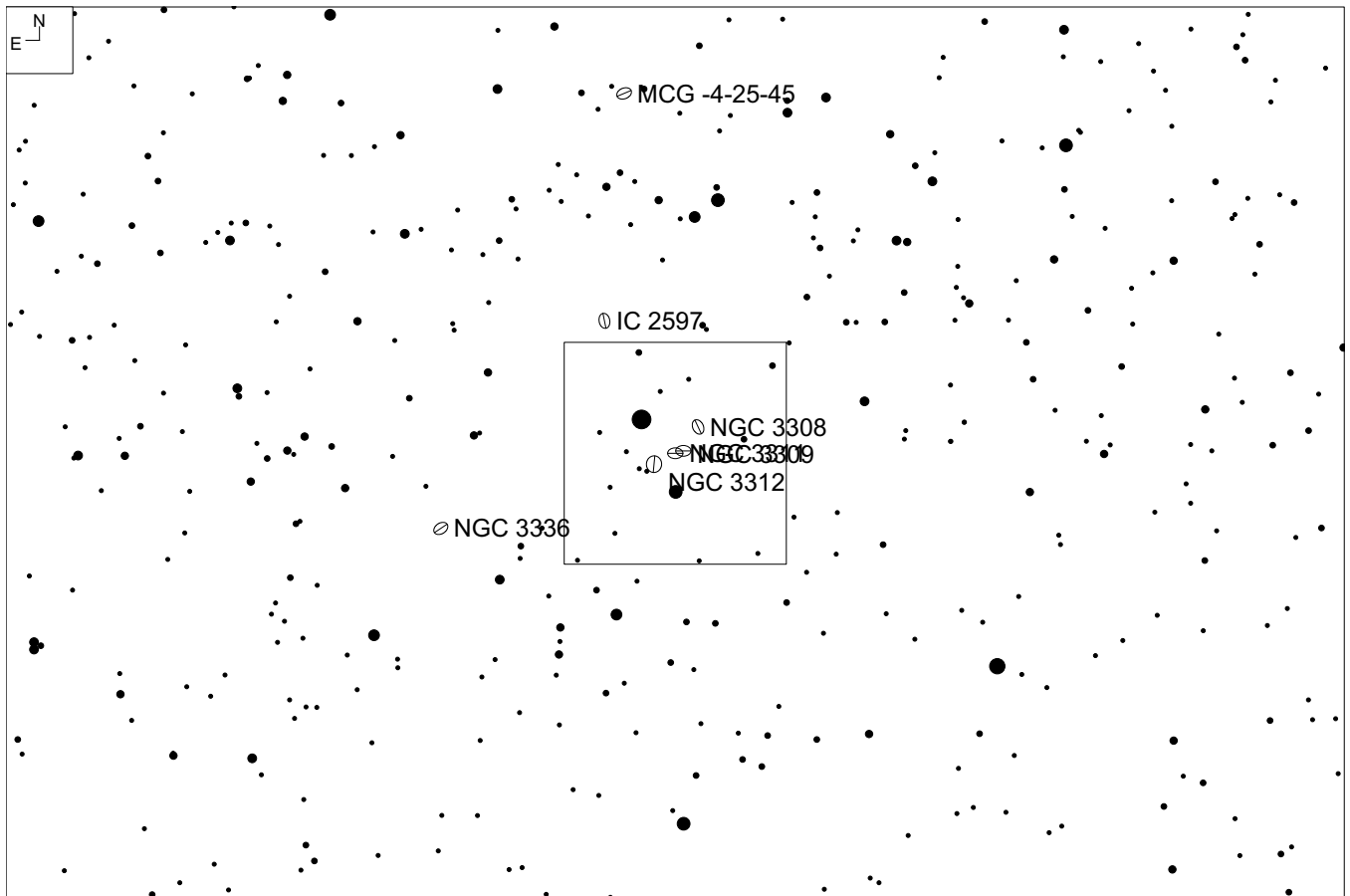
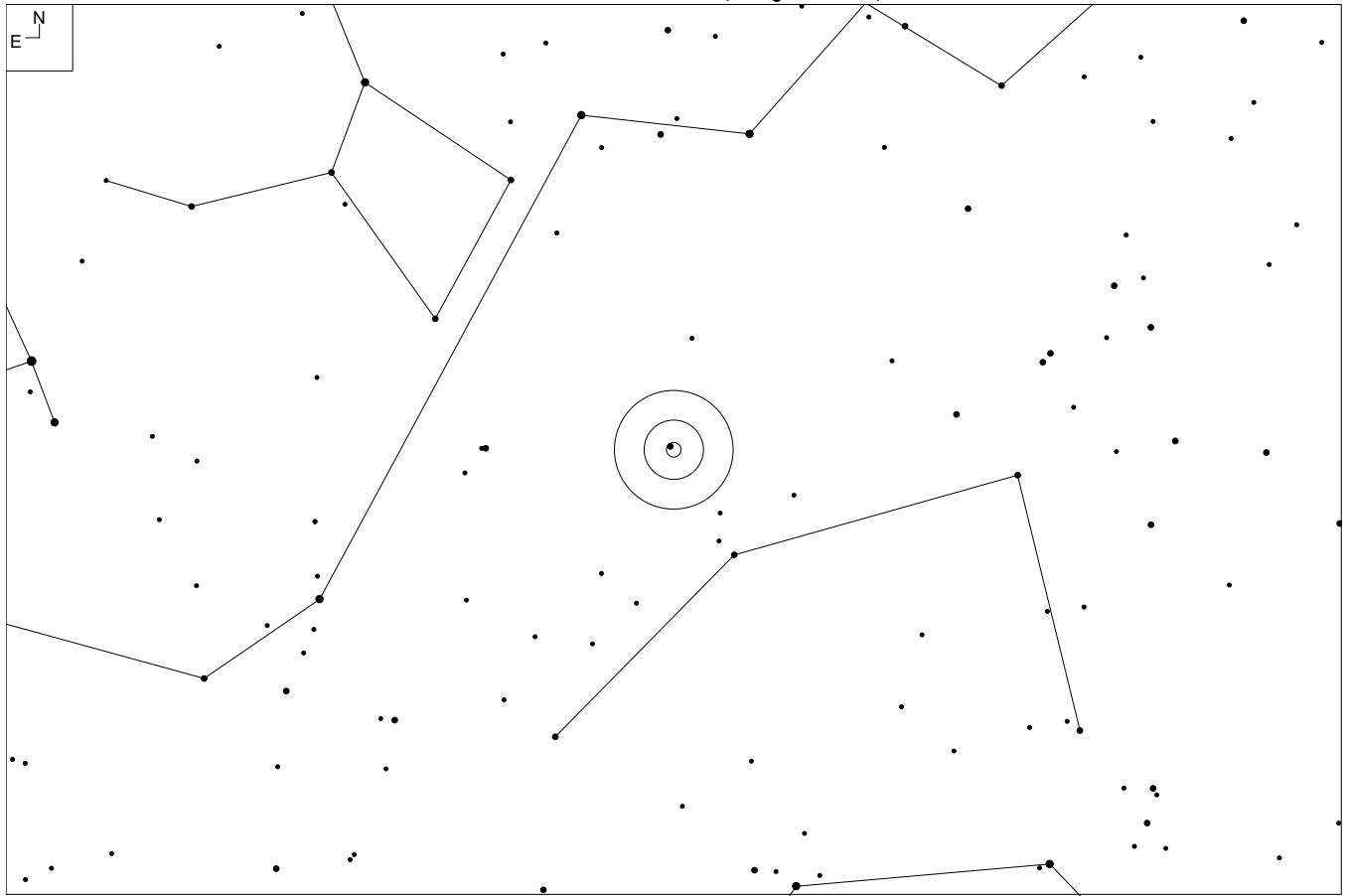
UGC 4956 (Hydra)



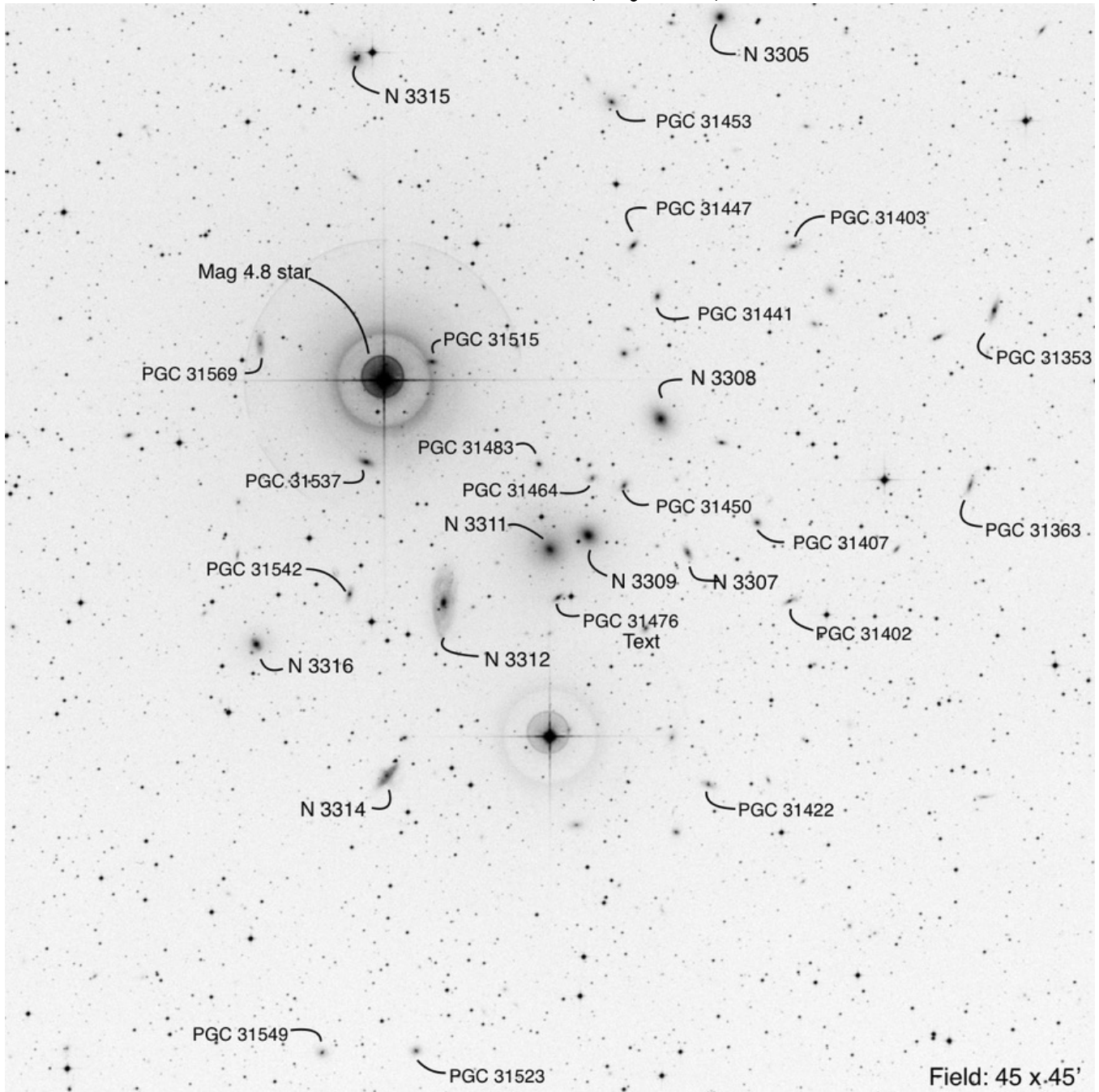
UGC 4956 (Hydra)



NGC 3311 (Hydra)

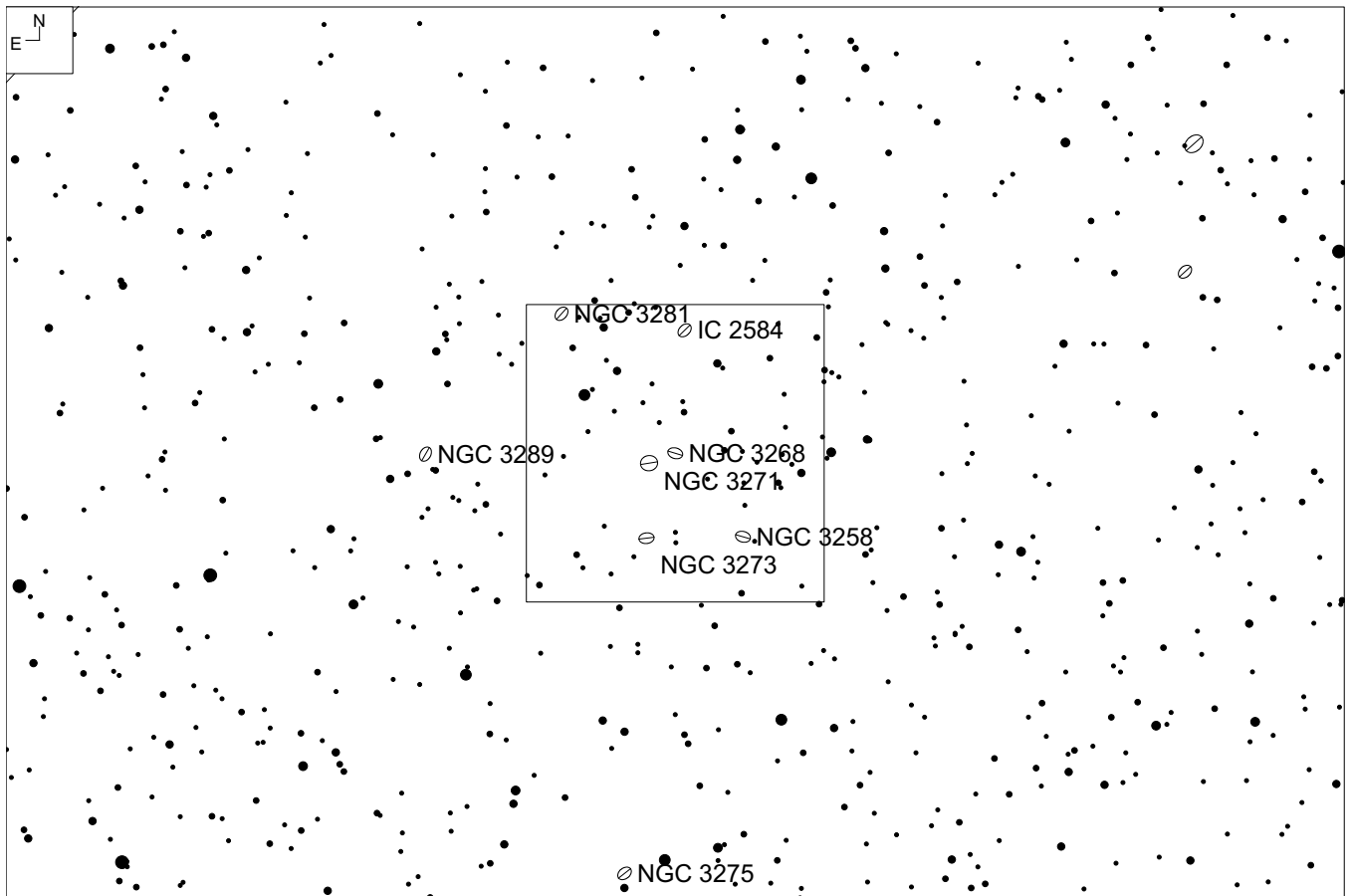
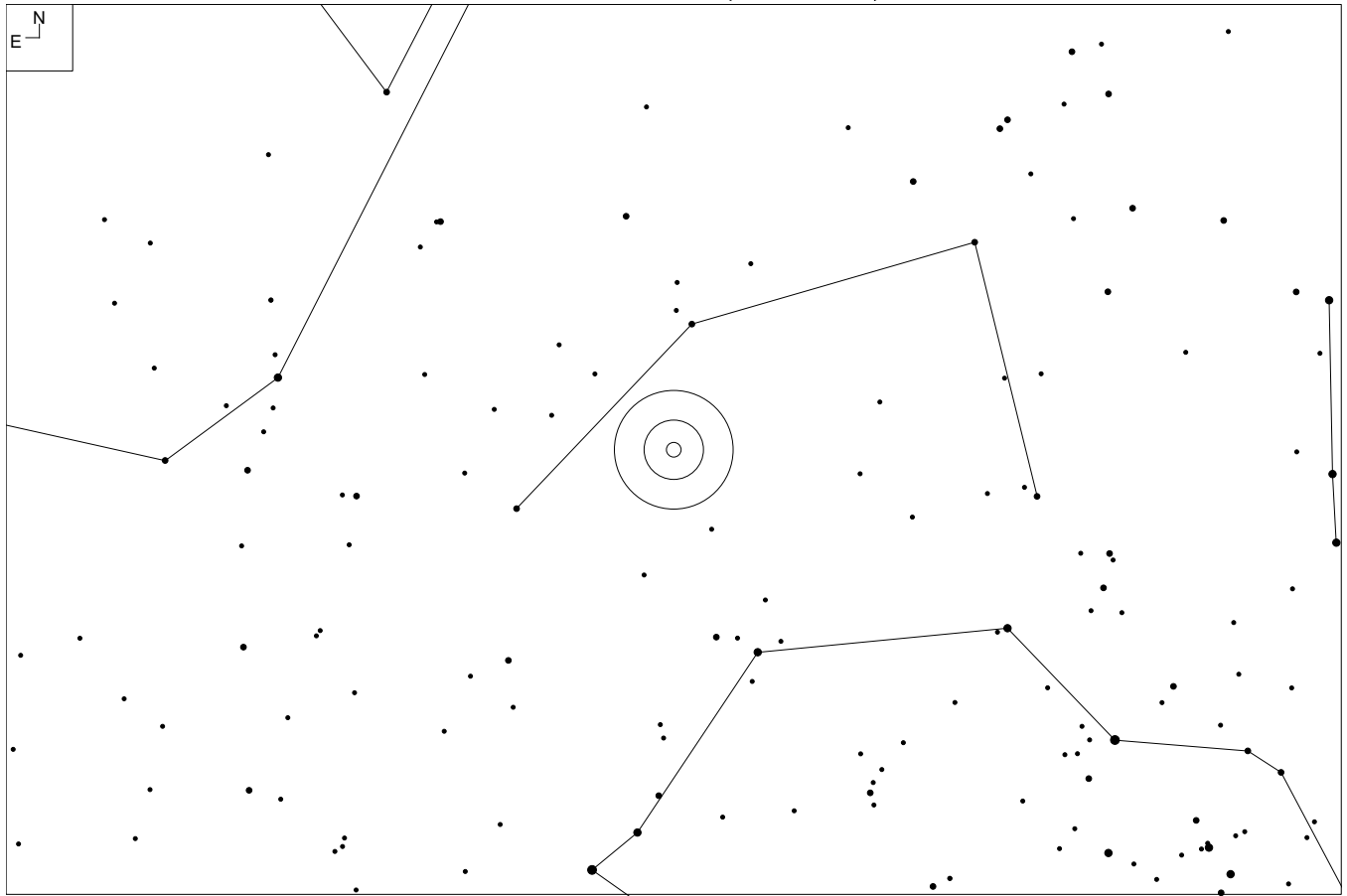


NGC 3311 (Hydra)

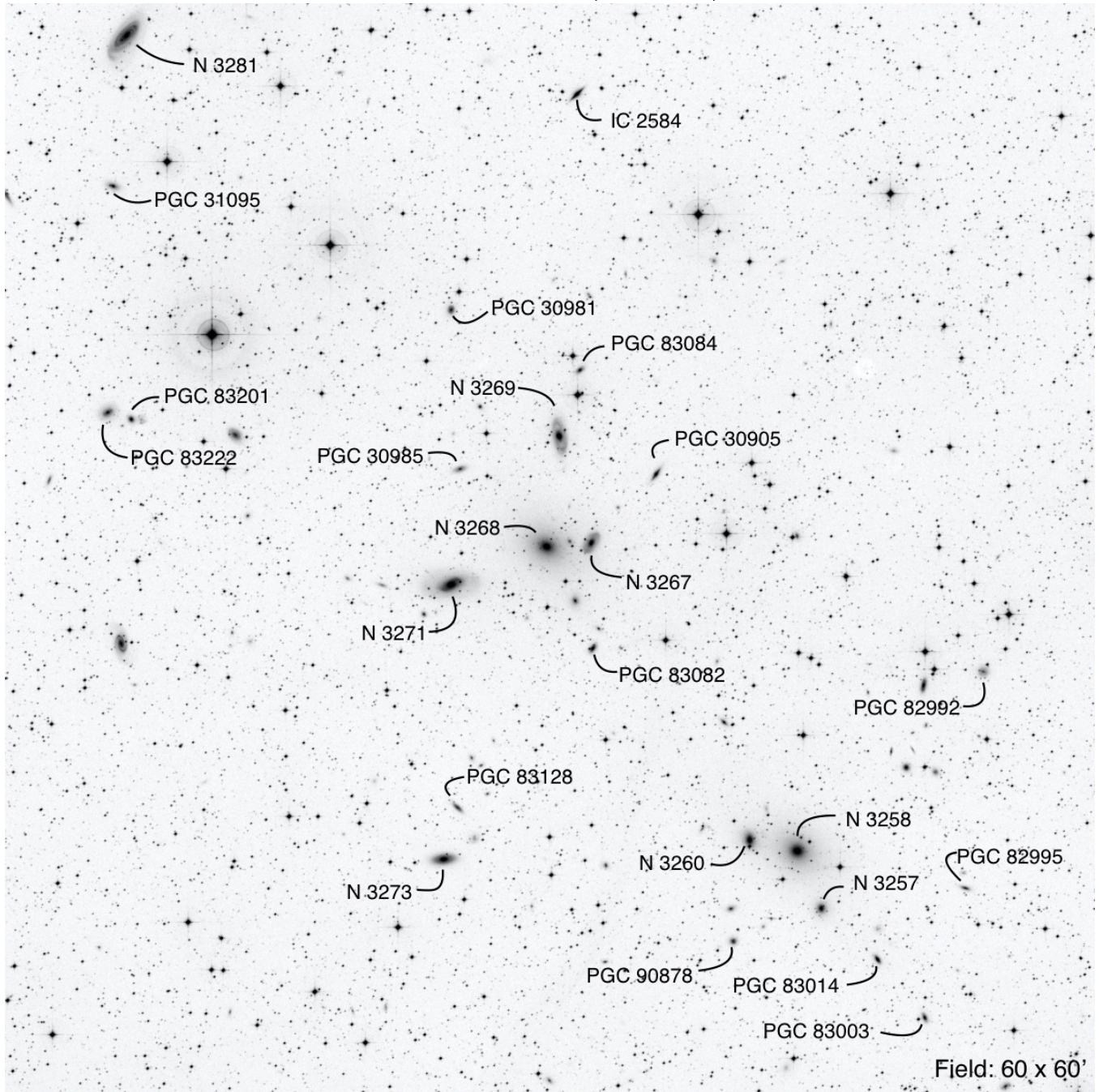


RA	Dec	Mag ₁	# of galaxies	iDSA
10 36 42.0	-27 31 48	10.9	29	82, D22

NGC 3268 (Antlia)

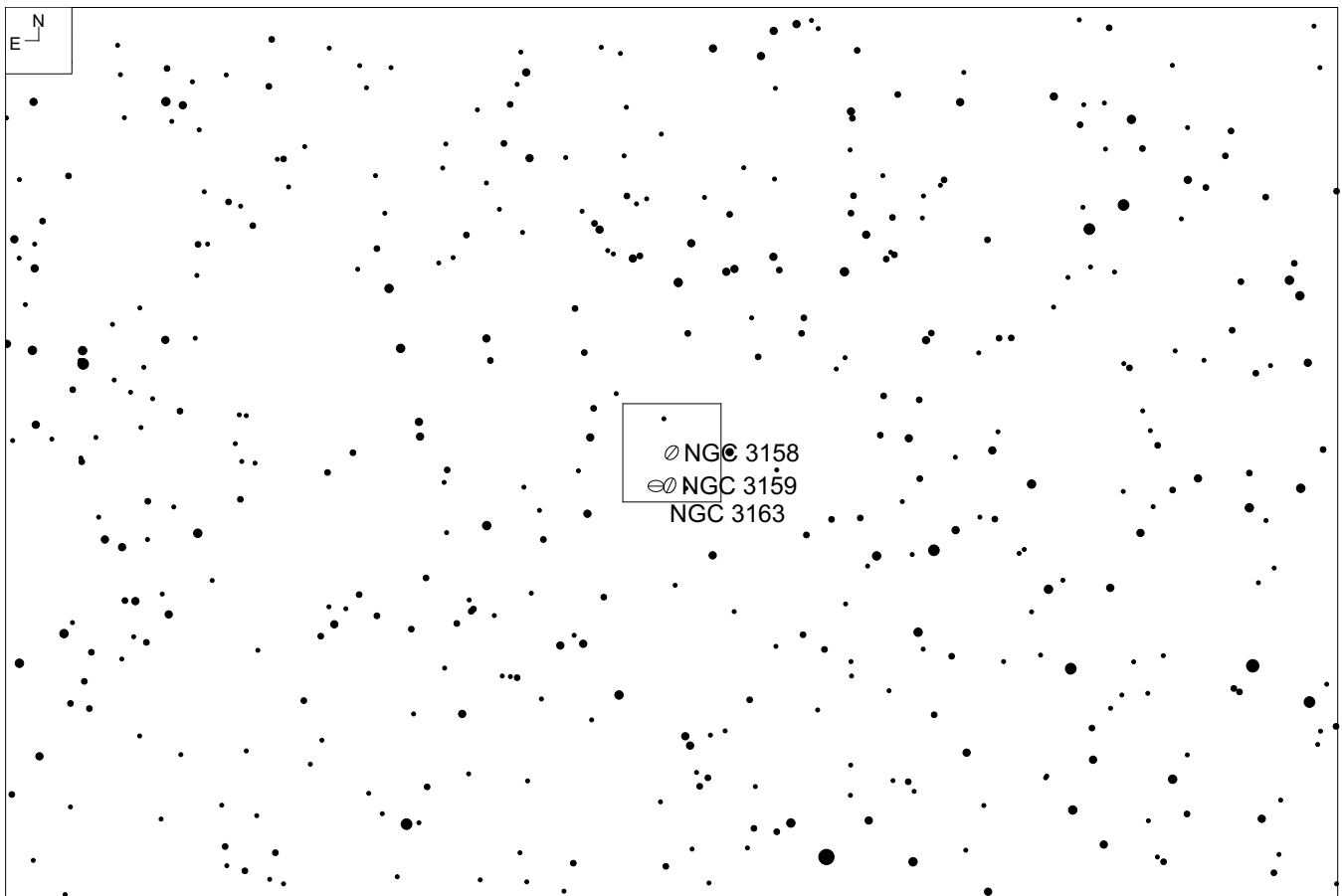
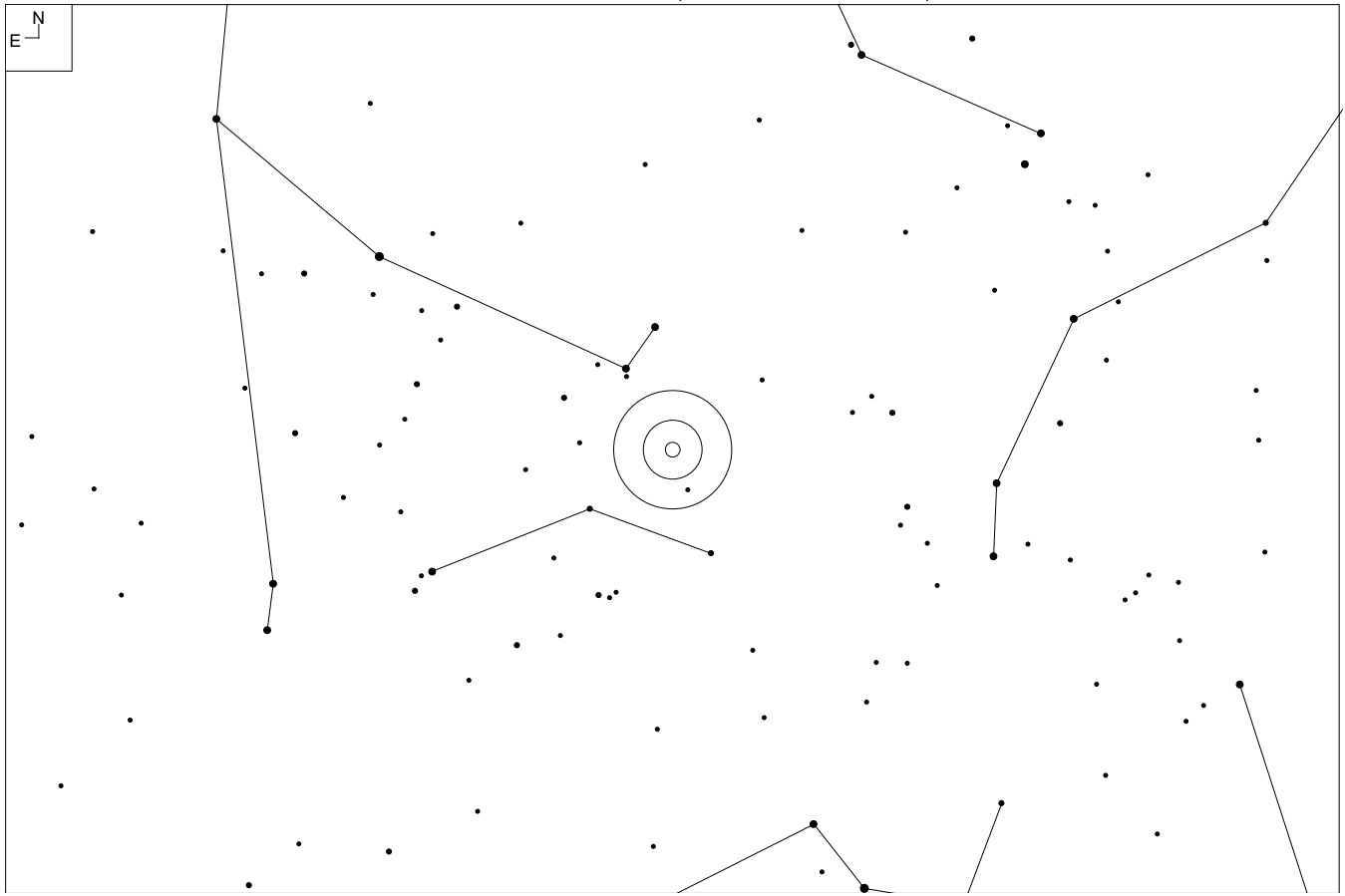


NGC 3268 (Antlia)

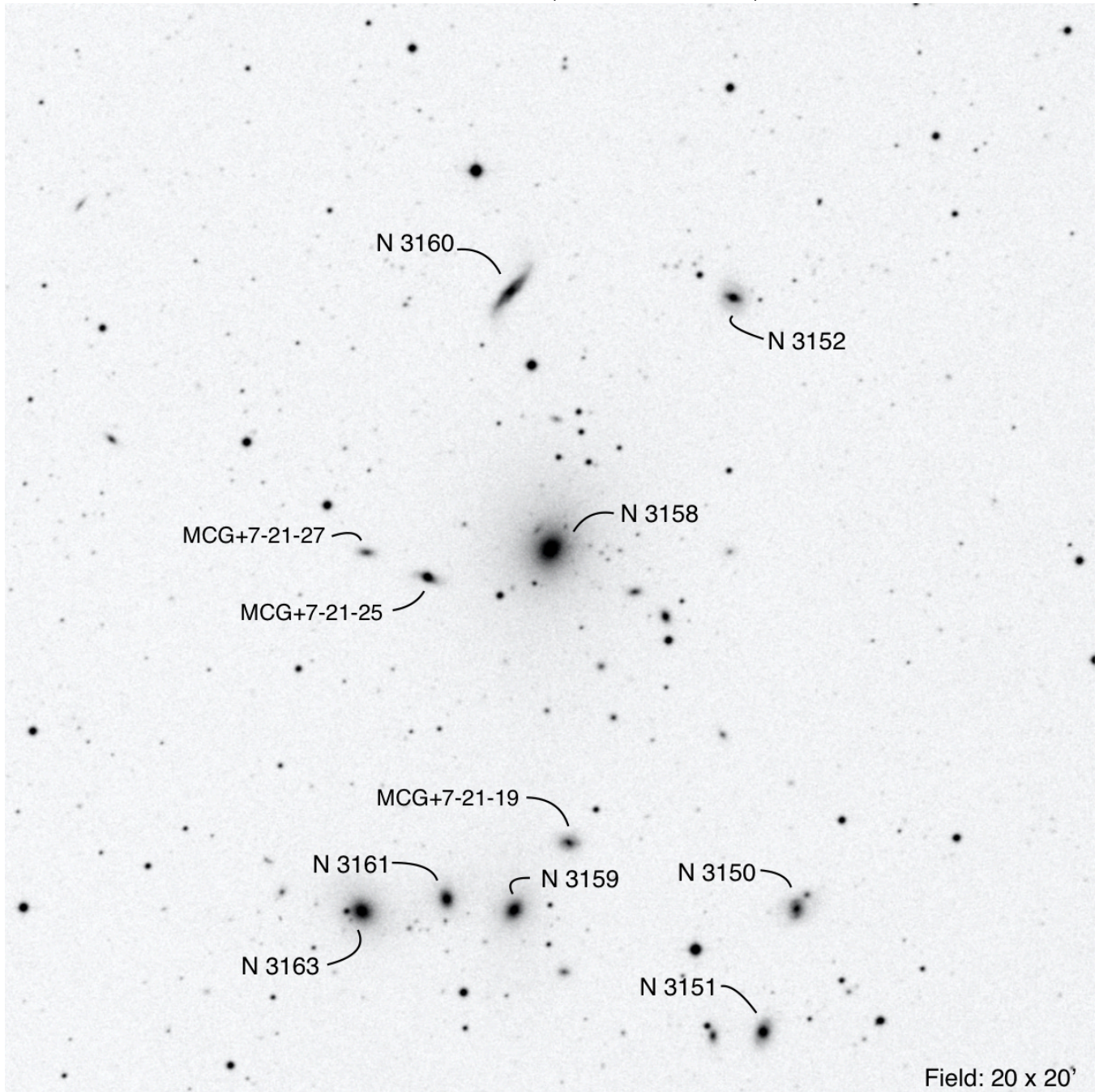


RA	Dec	Mag ₁	# of galaxies	iDSA
10 29 59.7	-35 19 40	11.7	24	D21

NGC 3158 (Leo Minor)

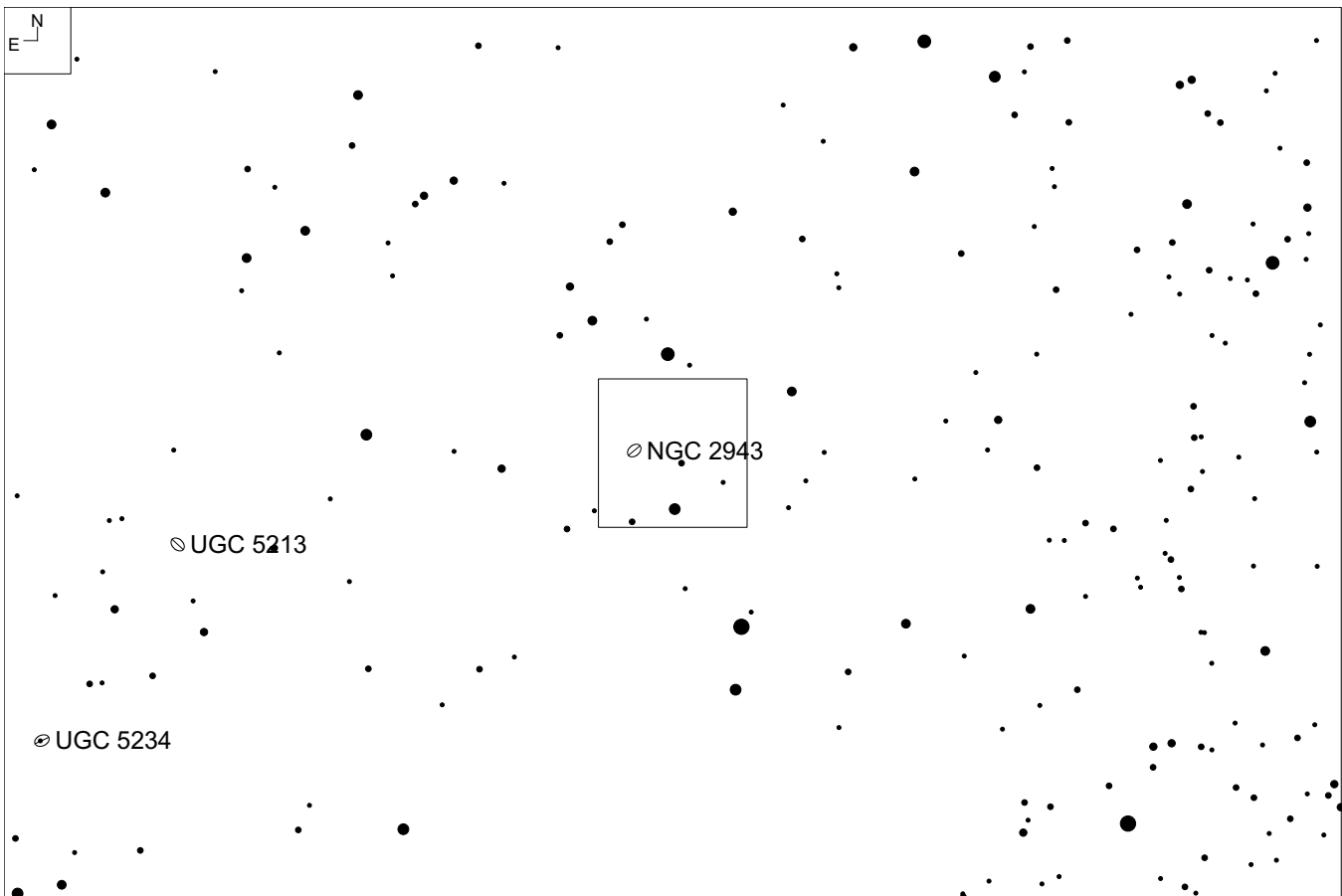
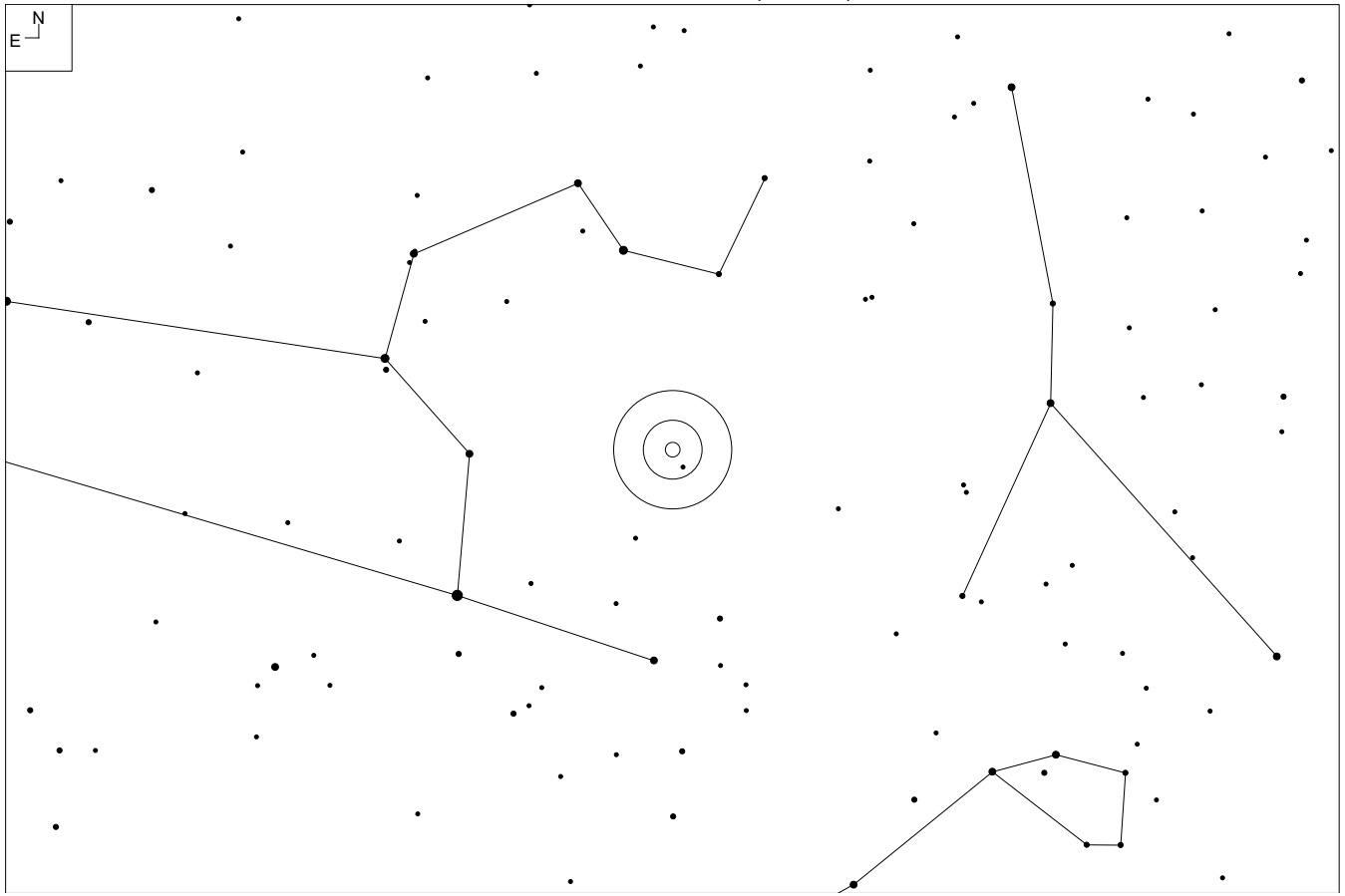


NGC 3158 (Leo Minor)

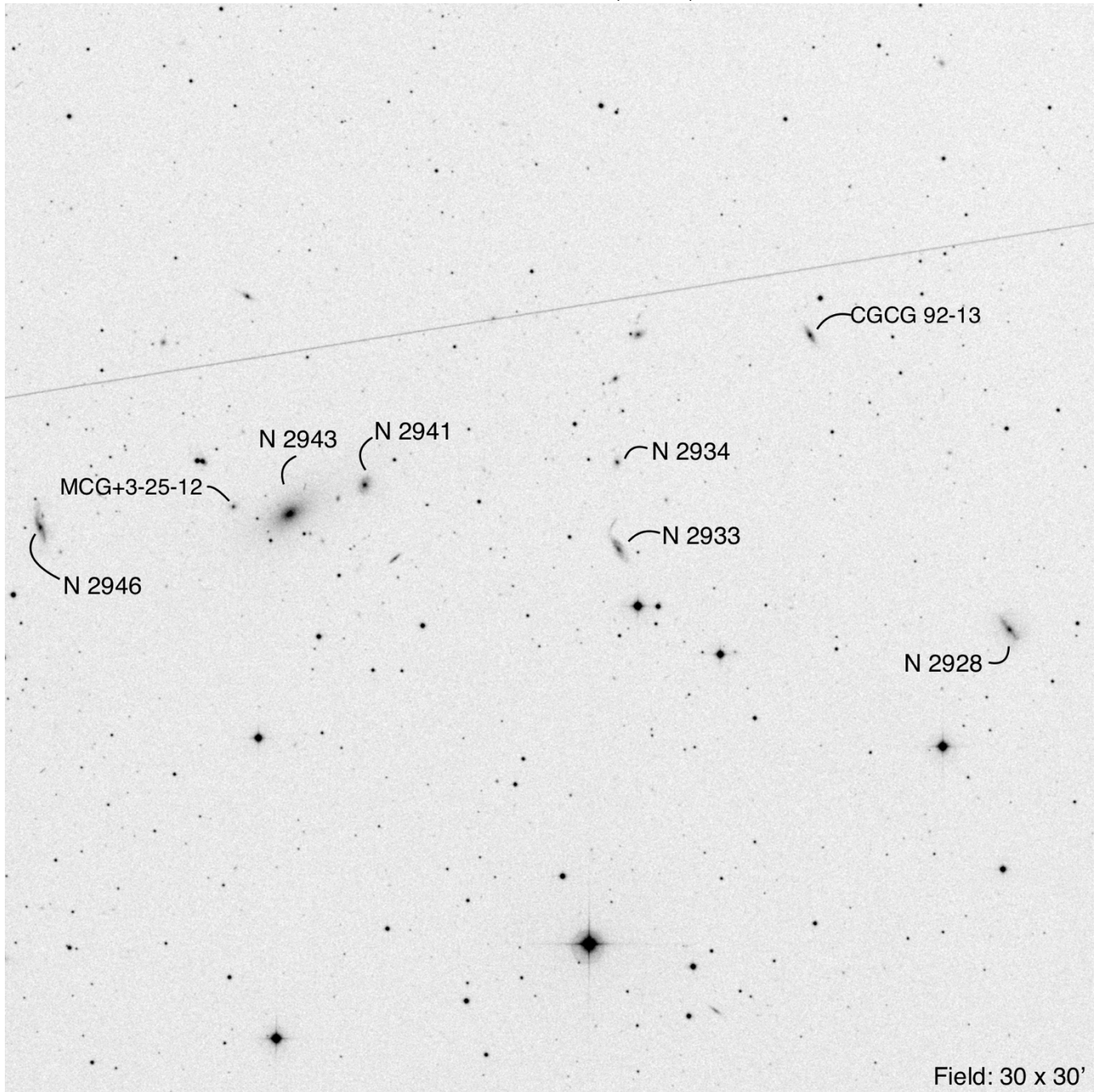


RA	Dec	Mag ₁	# of galaxies	iDSA
10 13 50.5	+38 45 53	11.9	11	22, 23, 34

NGC 2943 (Leo)



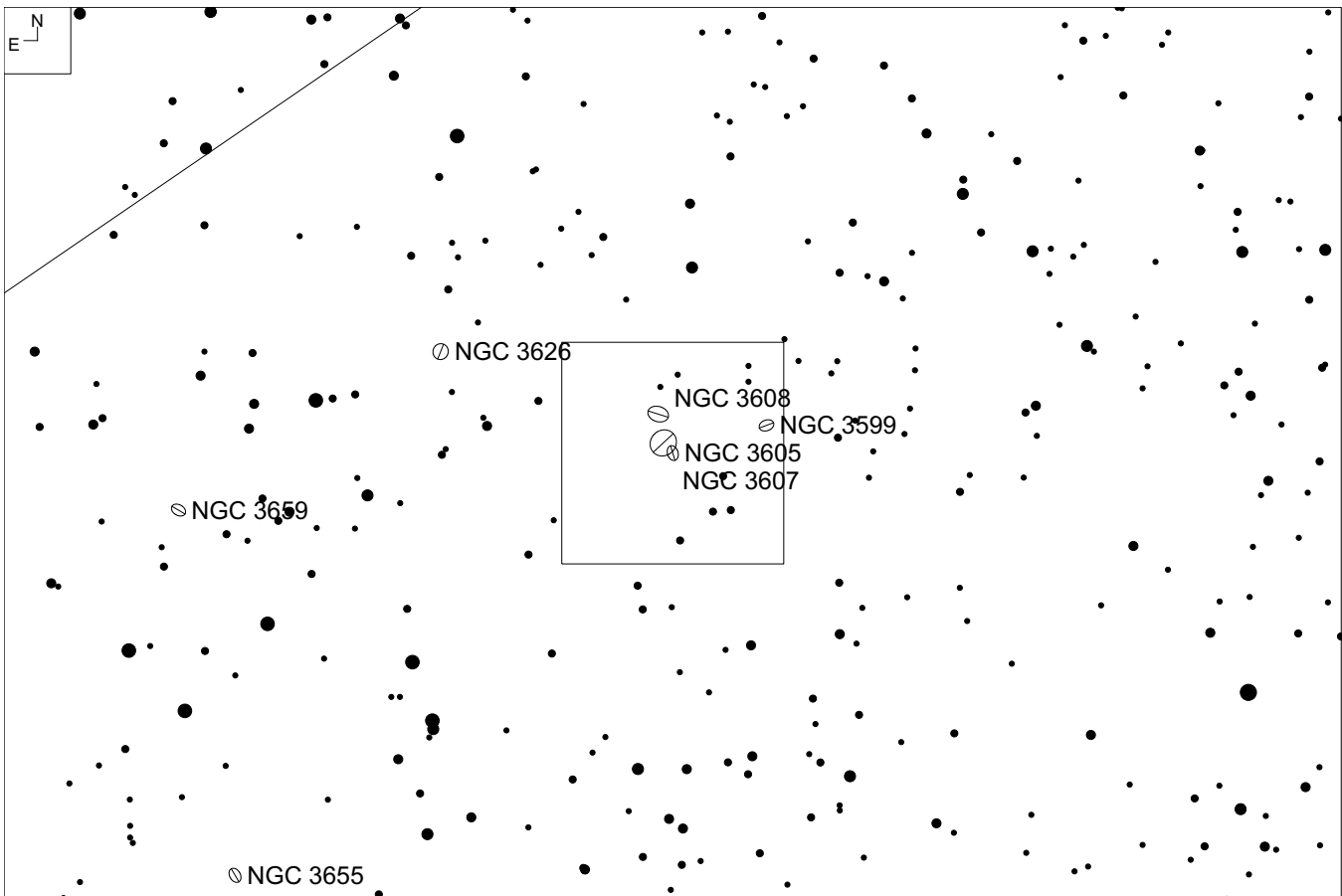
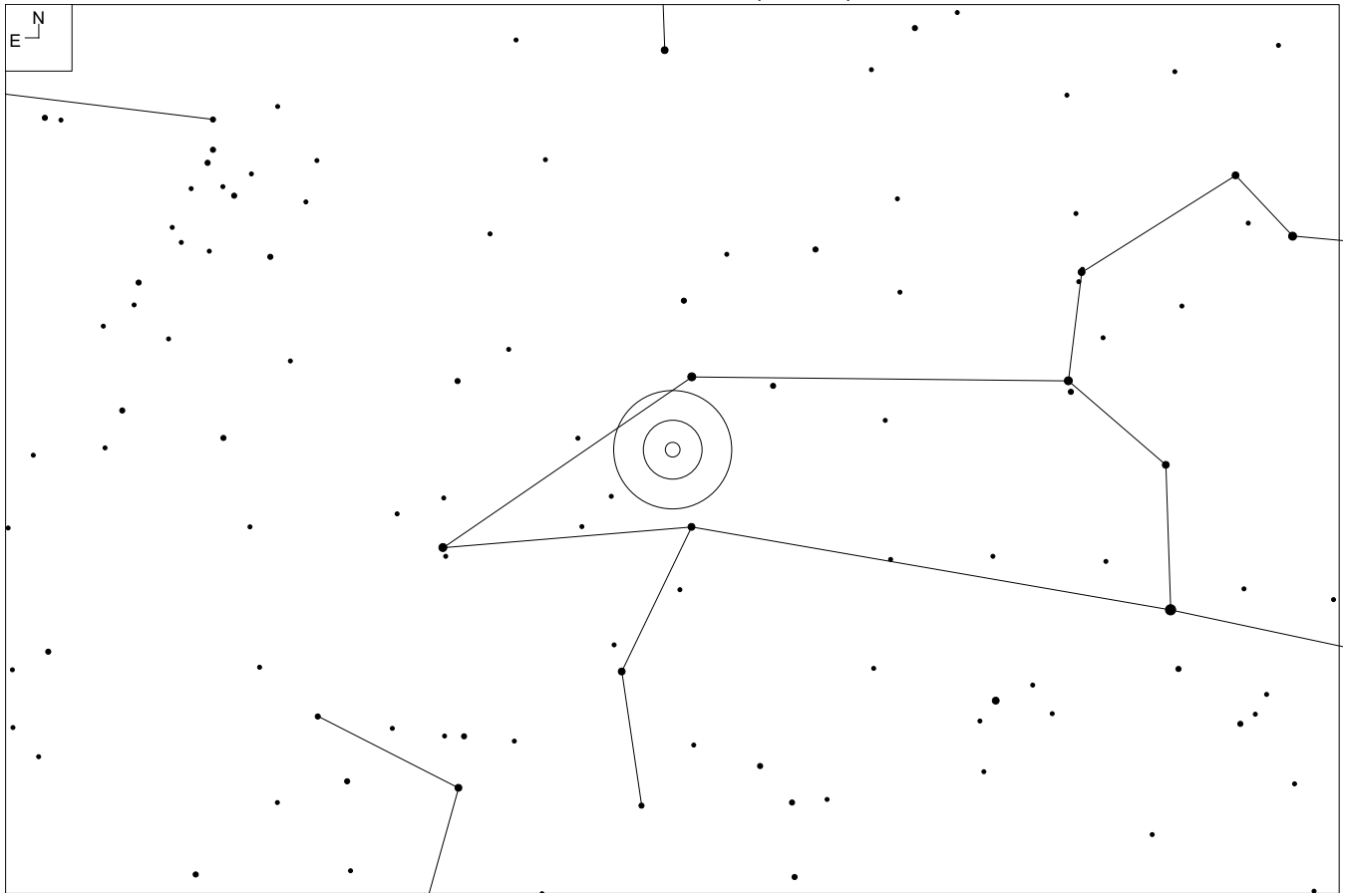
NGC 2943 (Leo)



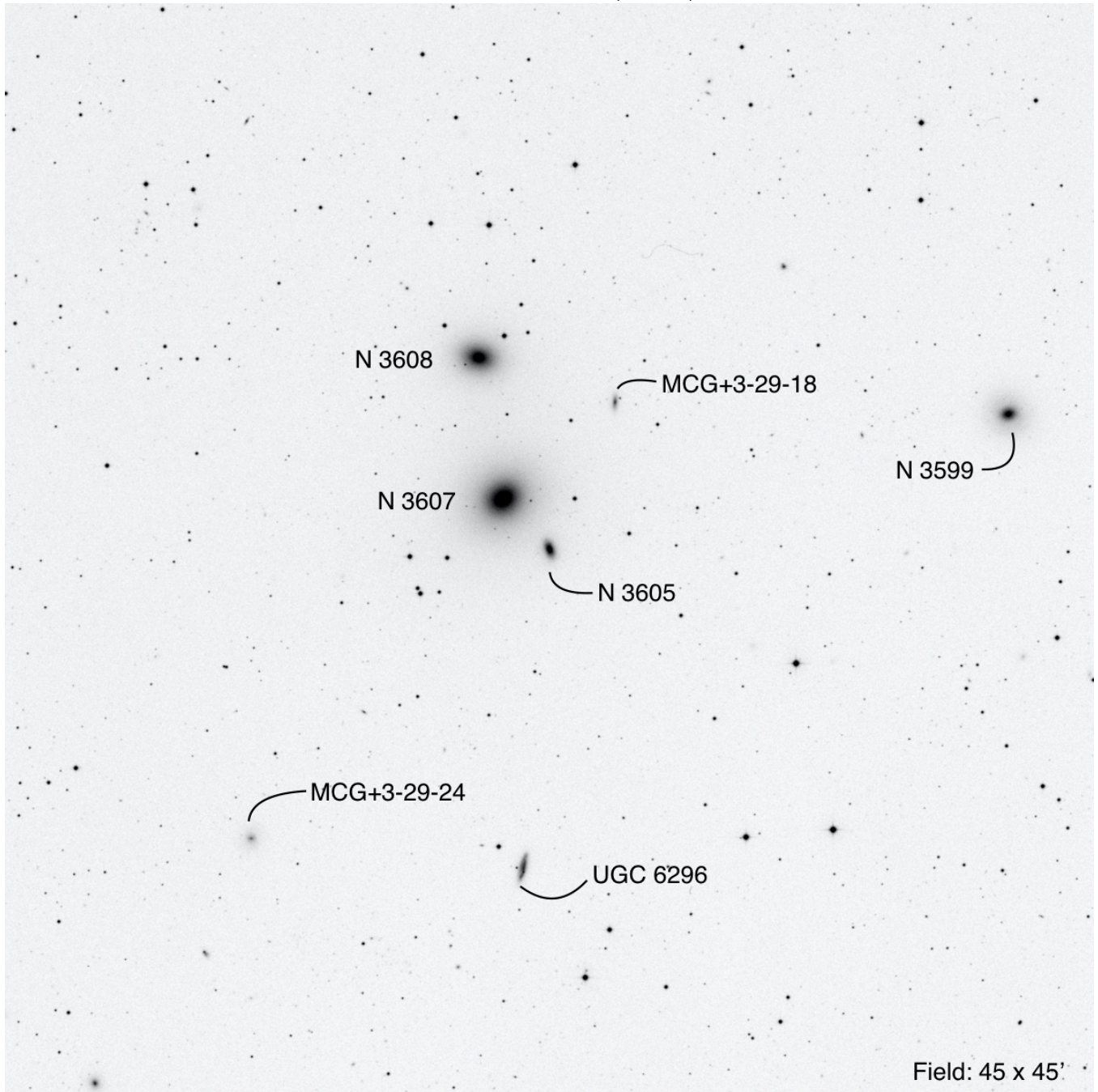
Field: 30 x 30'

RA	Dec	Mag ₁	# of galaxies	iDSA
09 38 32.9	+17 01 52	12.4	8	47

NGC 3607 (Leo)



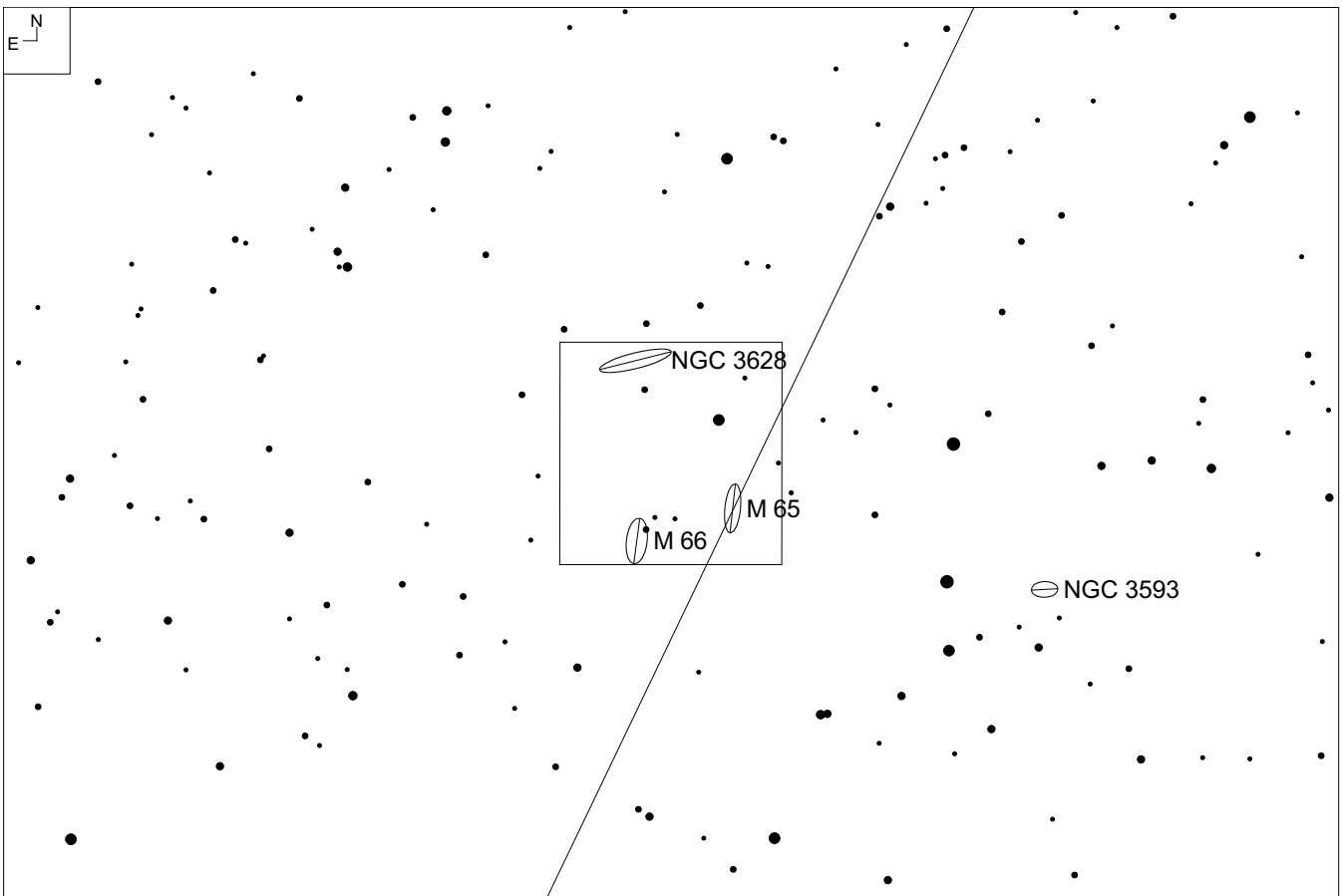
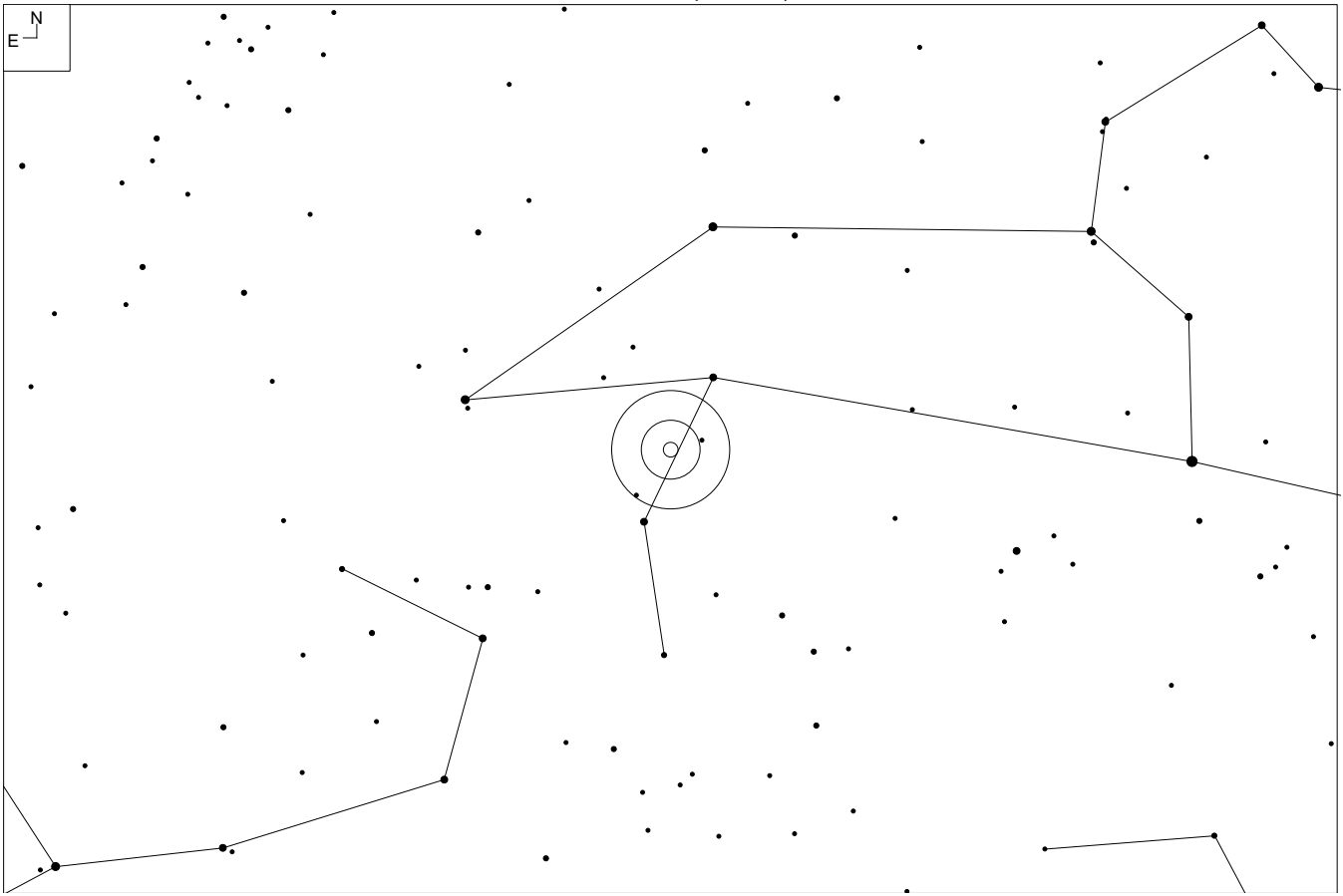
NGC 3607 (Leo)



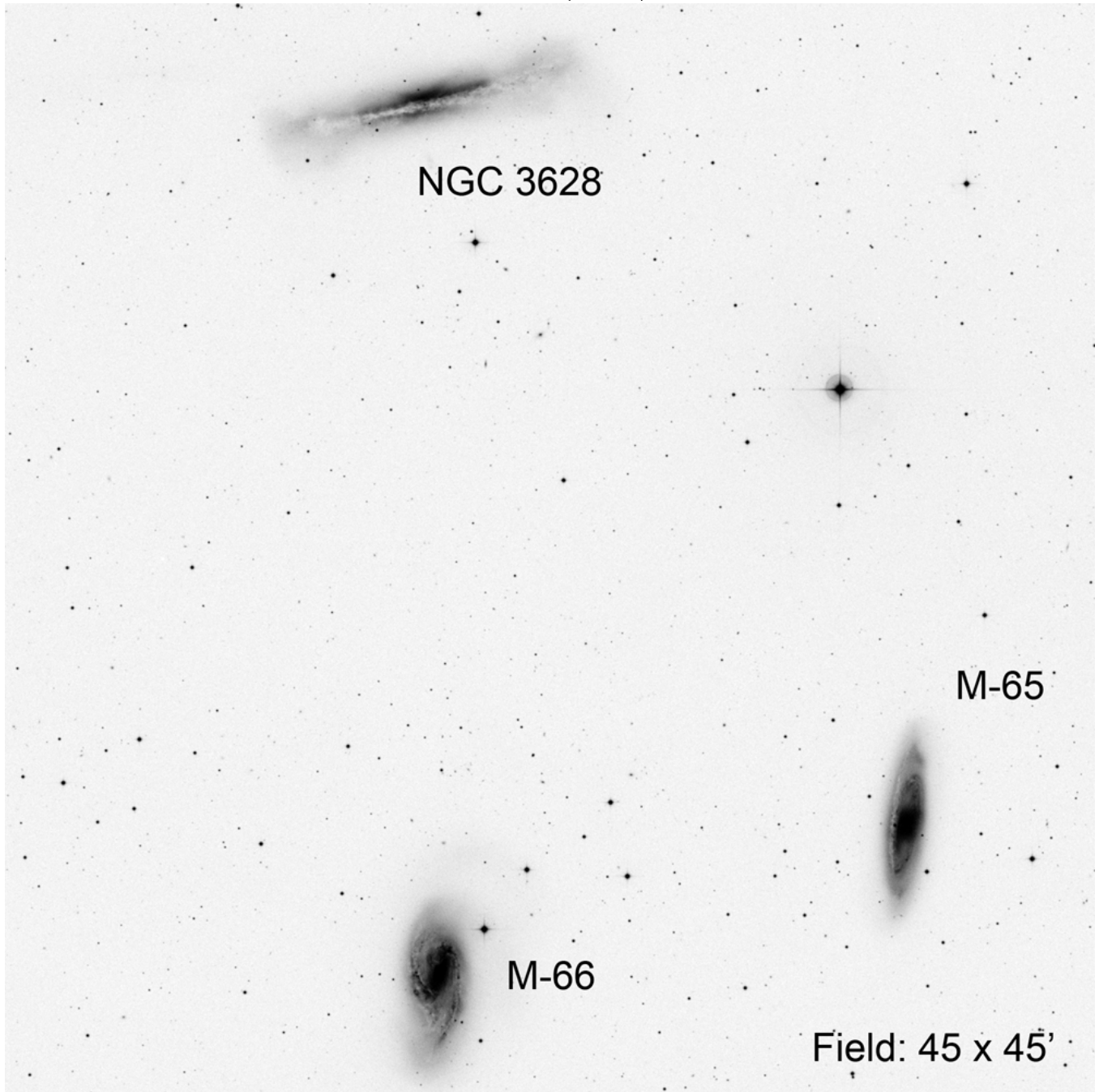
Field: 45 x 45'

RA	Dec	Mag ₁	# of galaxies	iDSA
11 16 54.7	+18 03 05	9.9	7	46

M 66 (Leo)

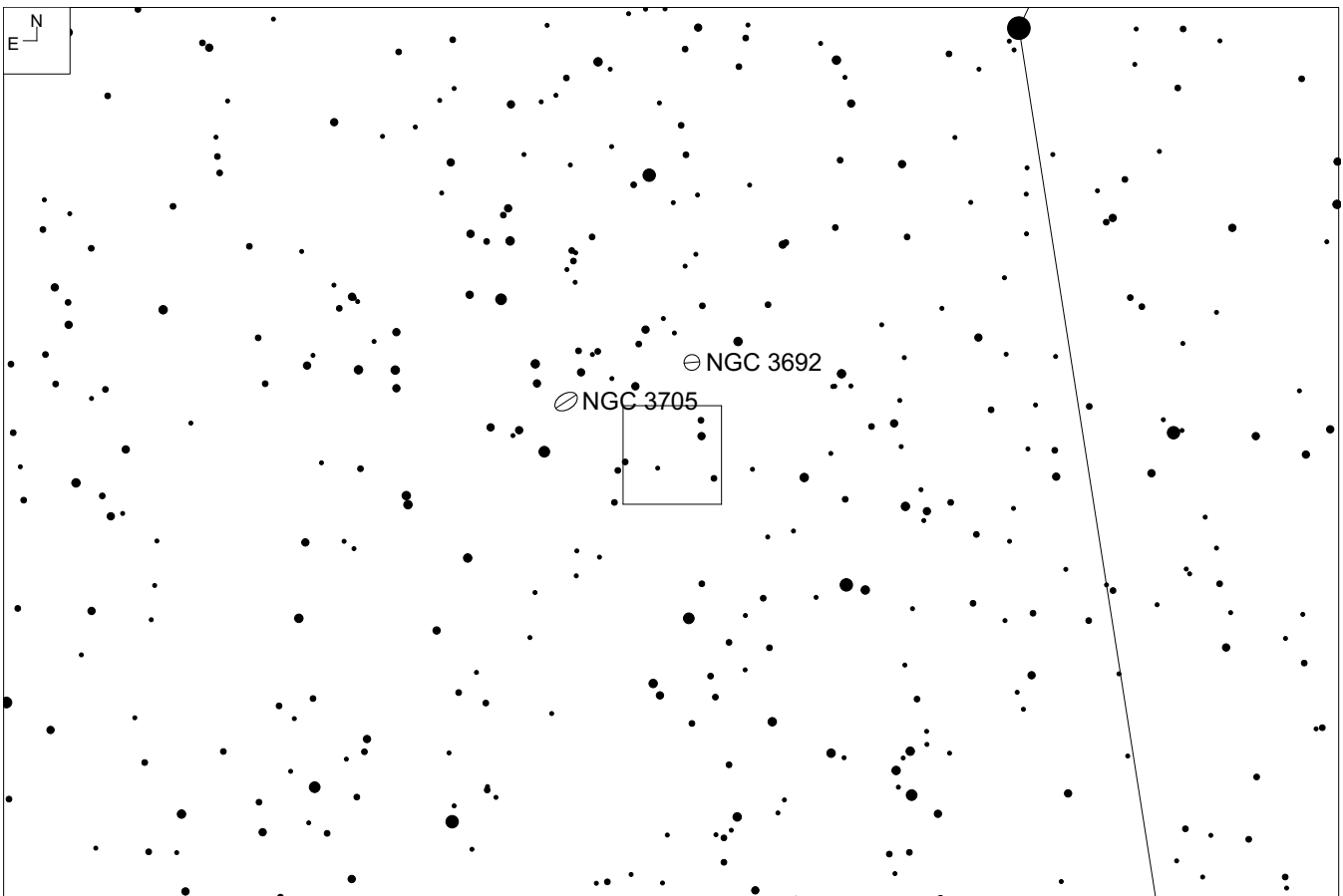
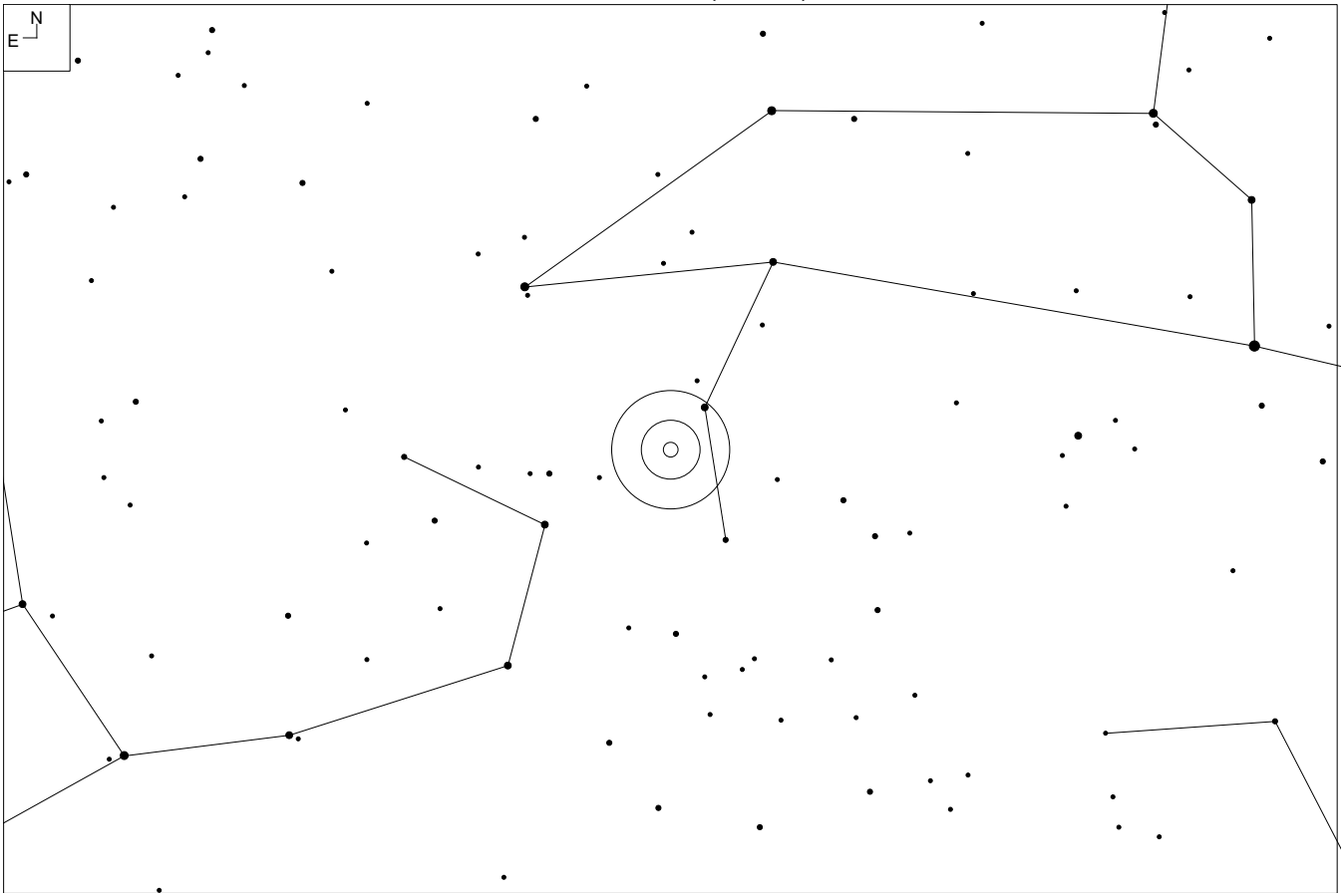


M 66 (Leo)

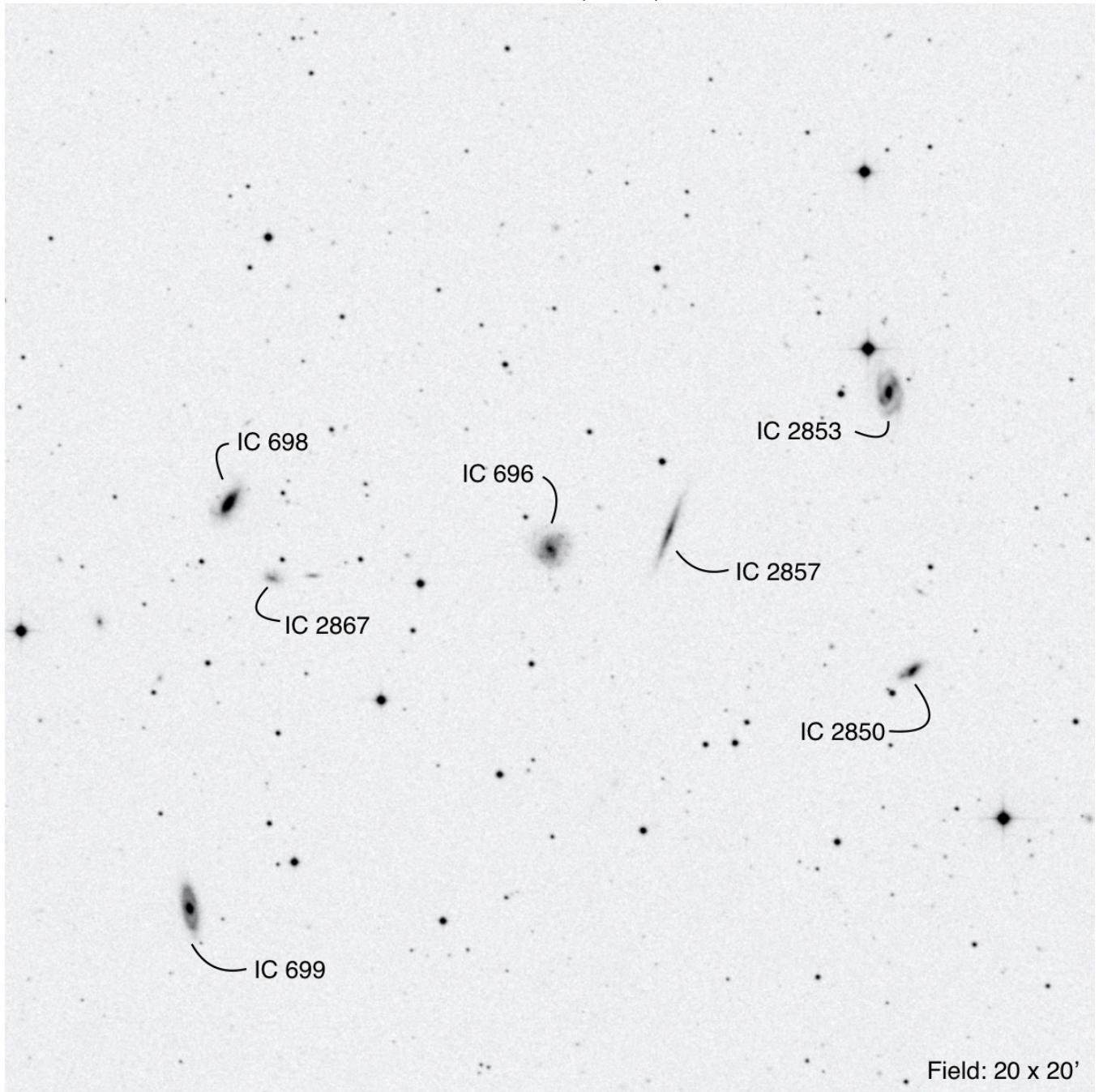


RA	Dec	Mag ₁	# of galaxies	iDSA
11 20 15.0	+12 59 00	8.9	3	46

IC 696 (Leo)

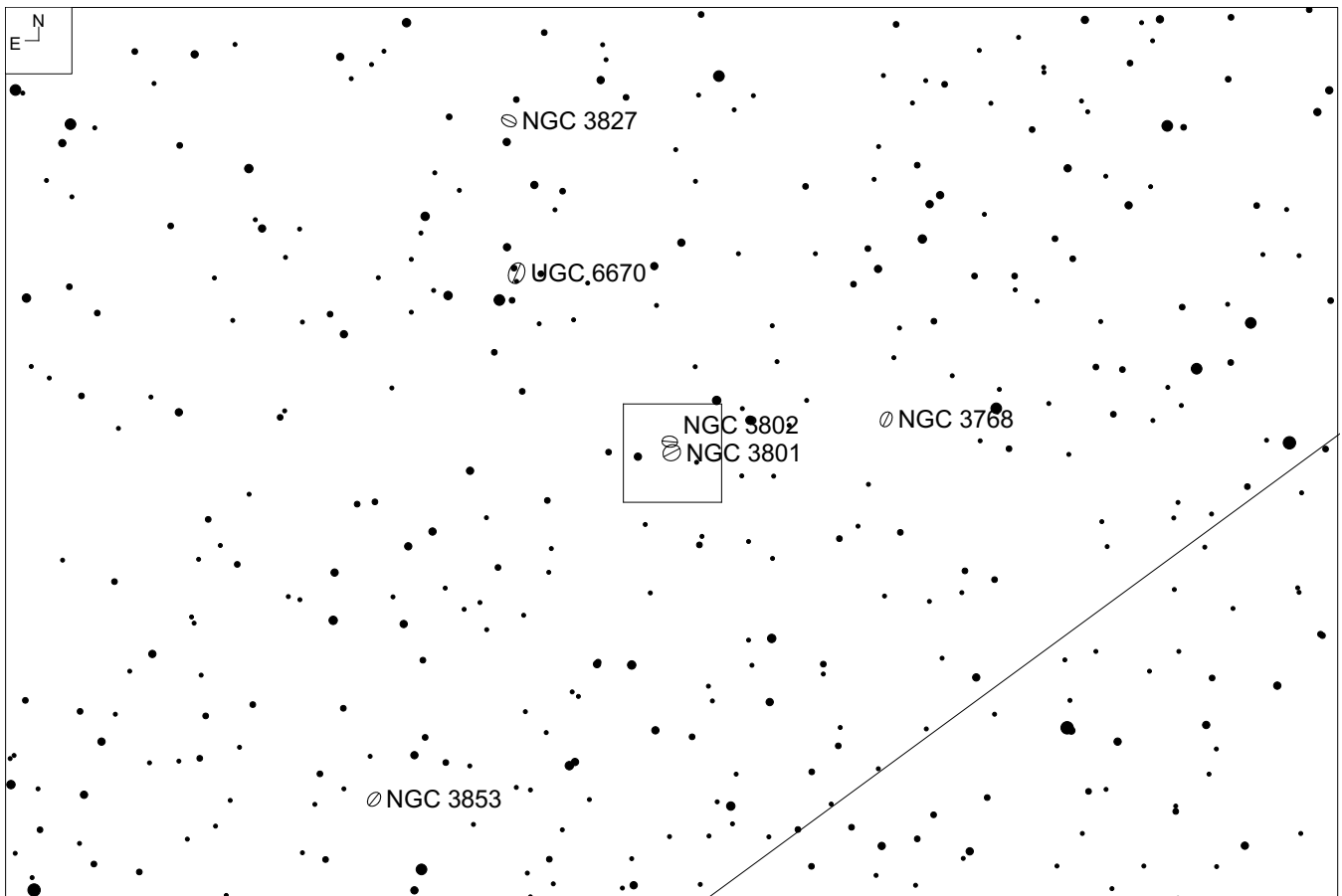
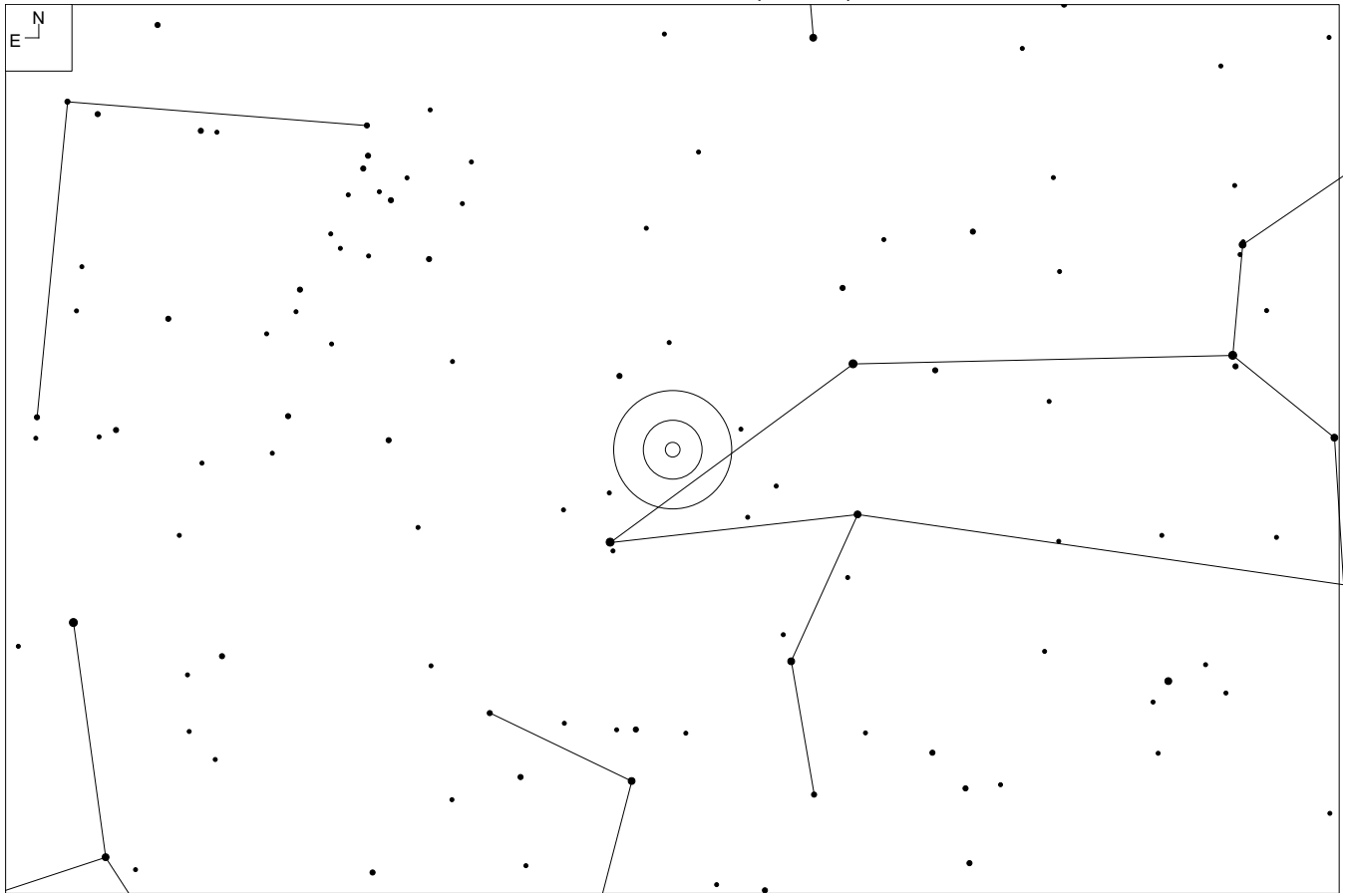


IC 696 (Leo)

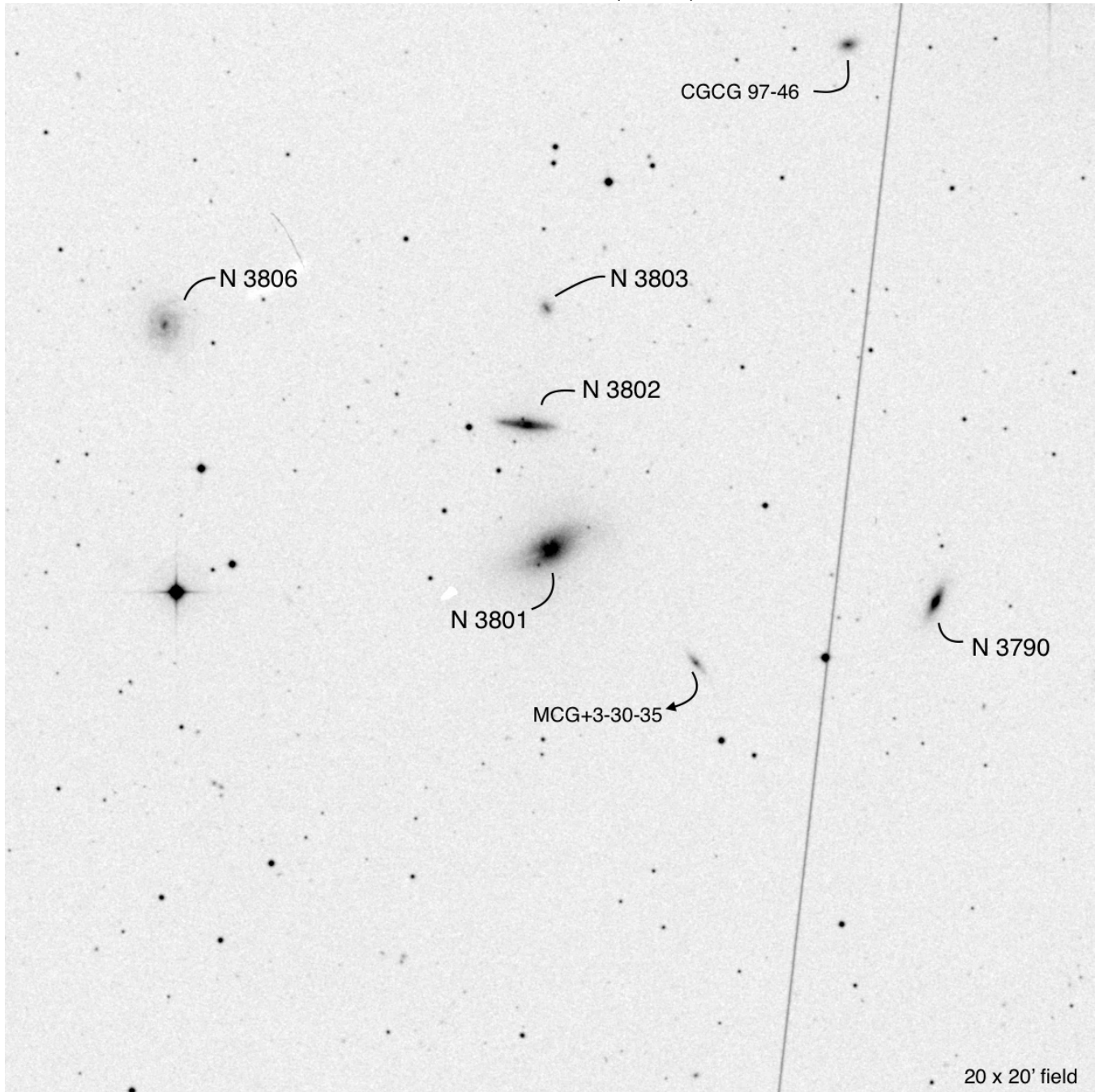


RA	Dec	Mag ₁	# of galaxies	iDSA
11 28 39.9	+09 05 55	13.7	7	46, 58

NGC 3801 (Leo)

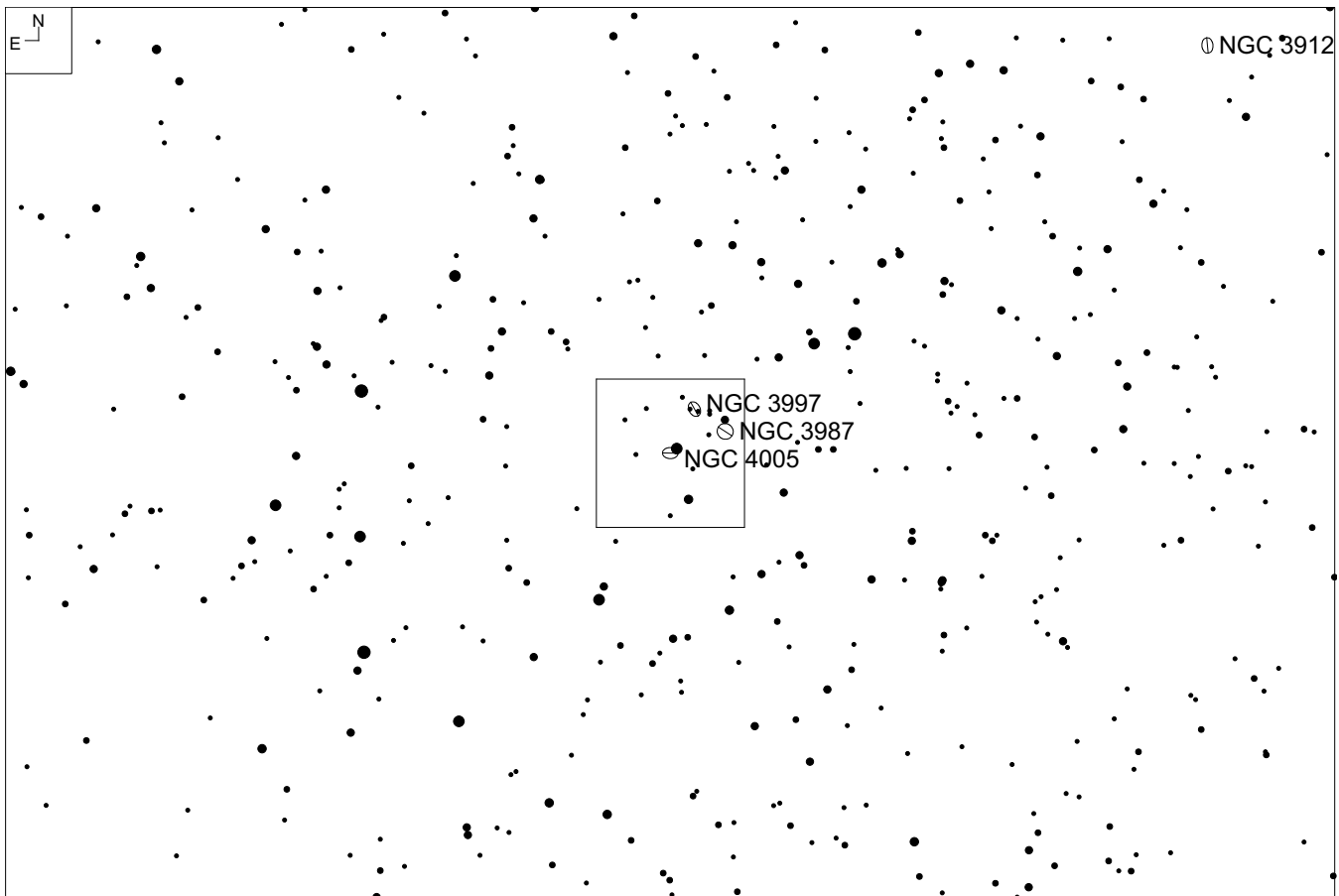
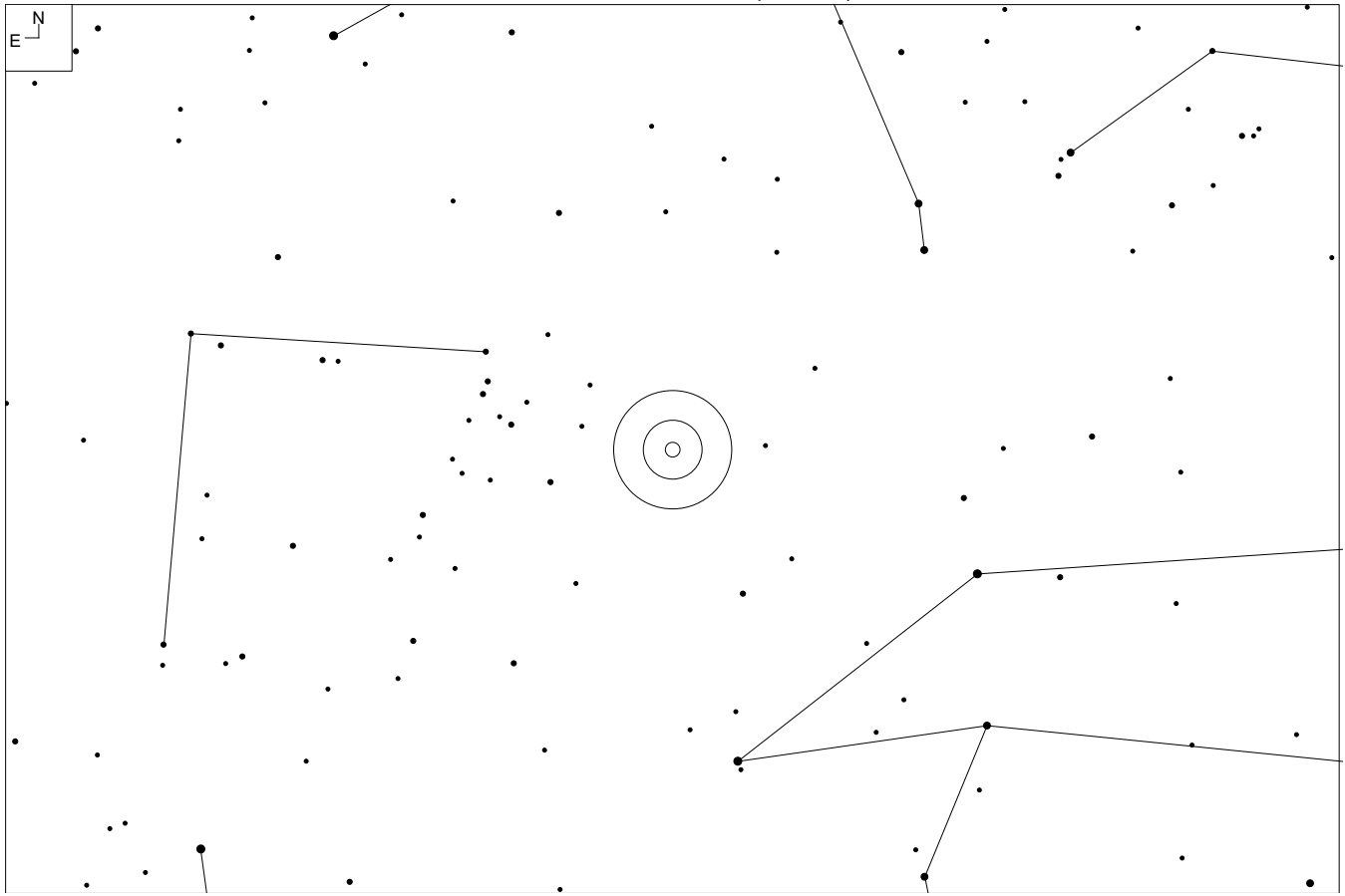


NGC 3801 (Leo)

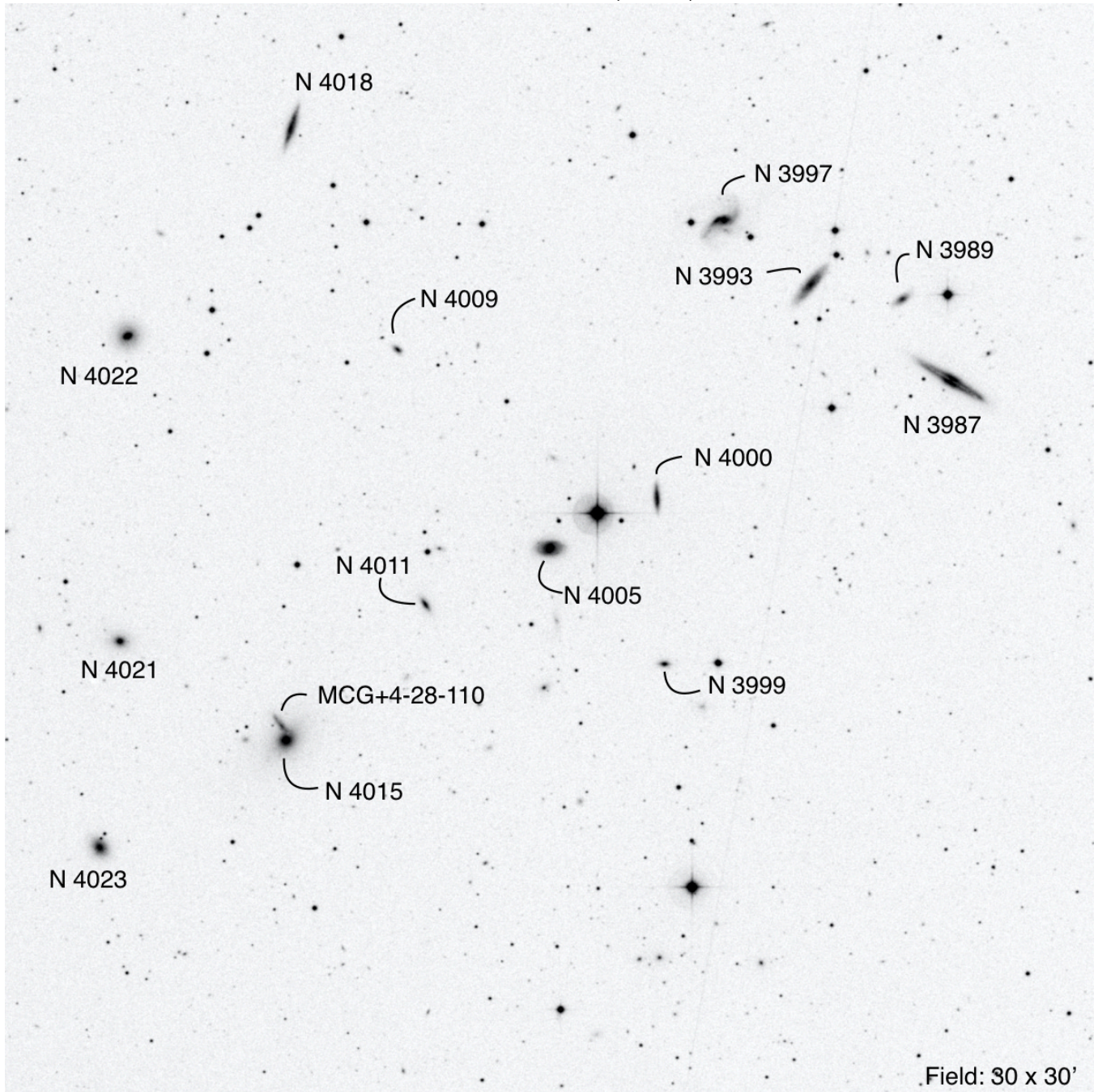


RA	Dec	Mag ₁	# of galaxies	iDSA
11 40 16.9	+17 43 41	12.0	7	46

NGC 4005 (Leo)

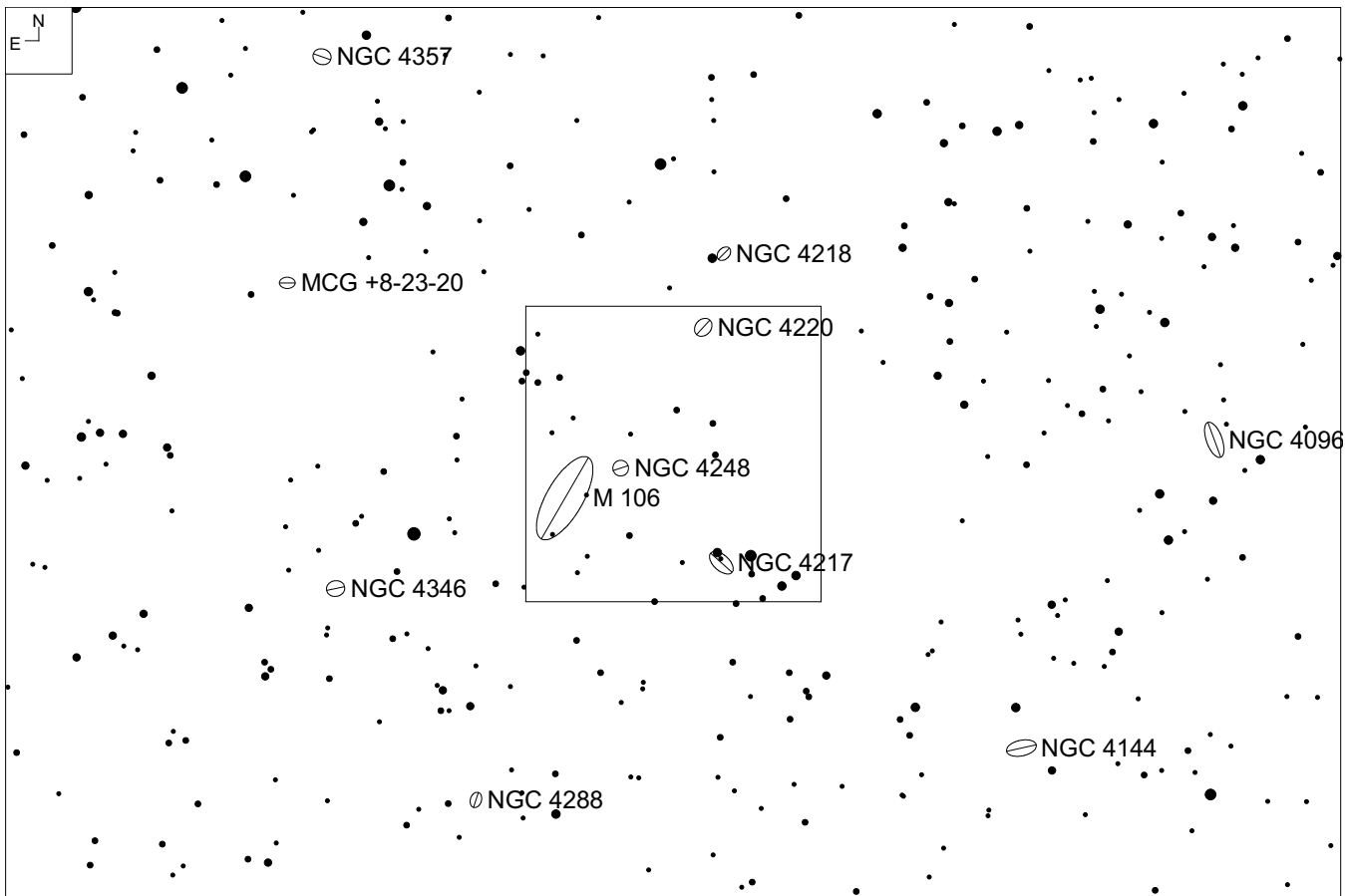
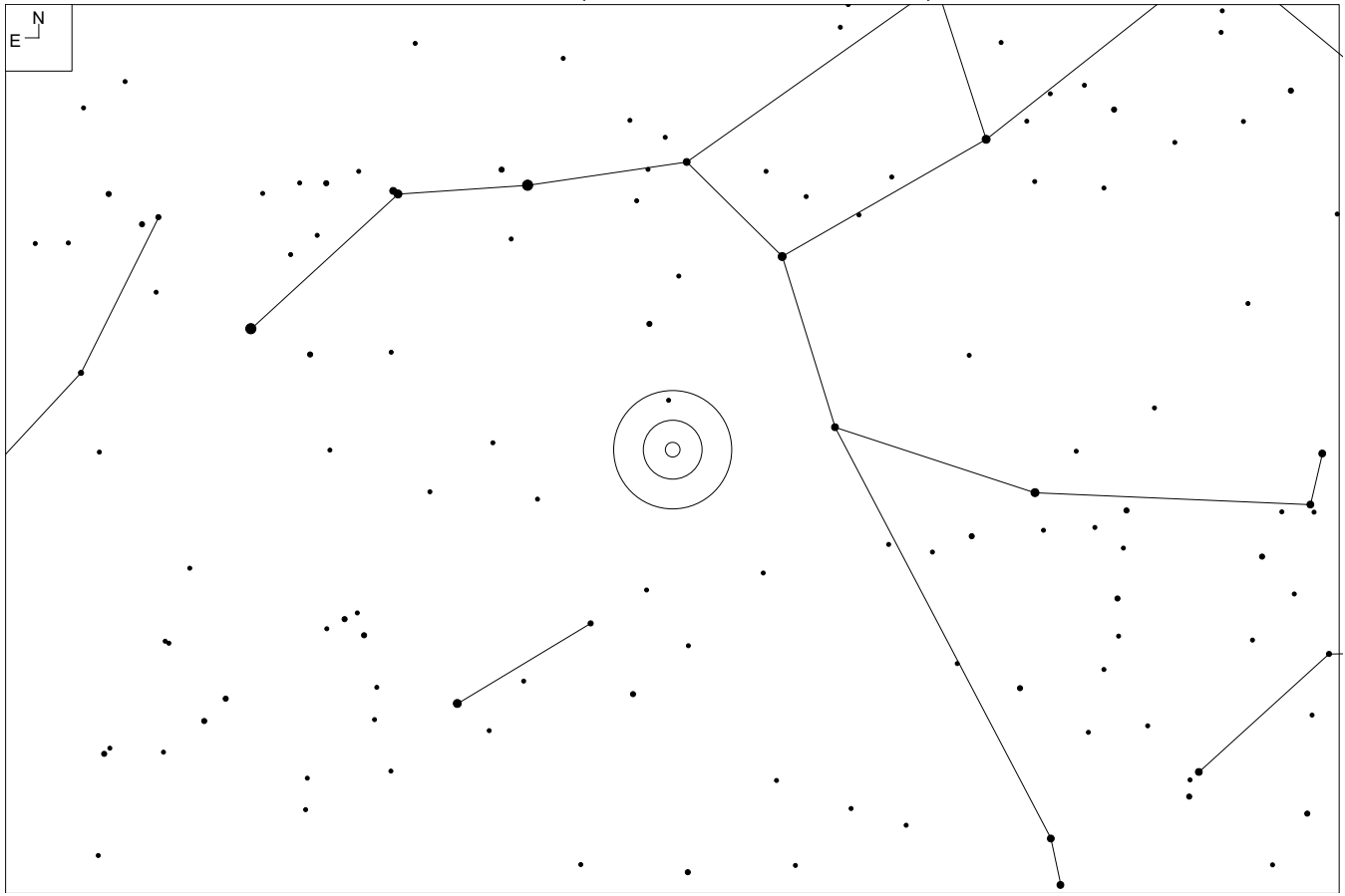


NGC 4005 (Leo)

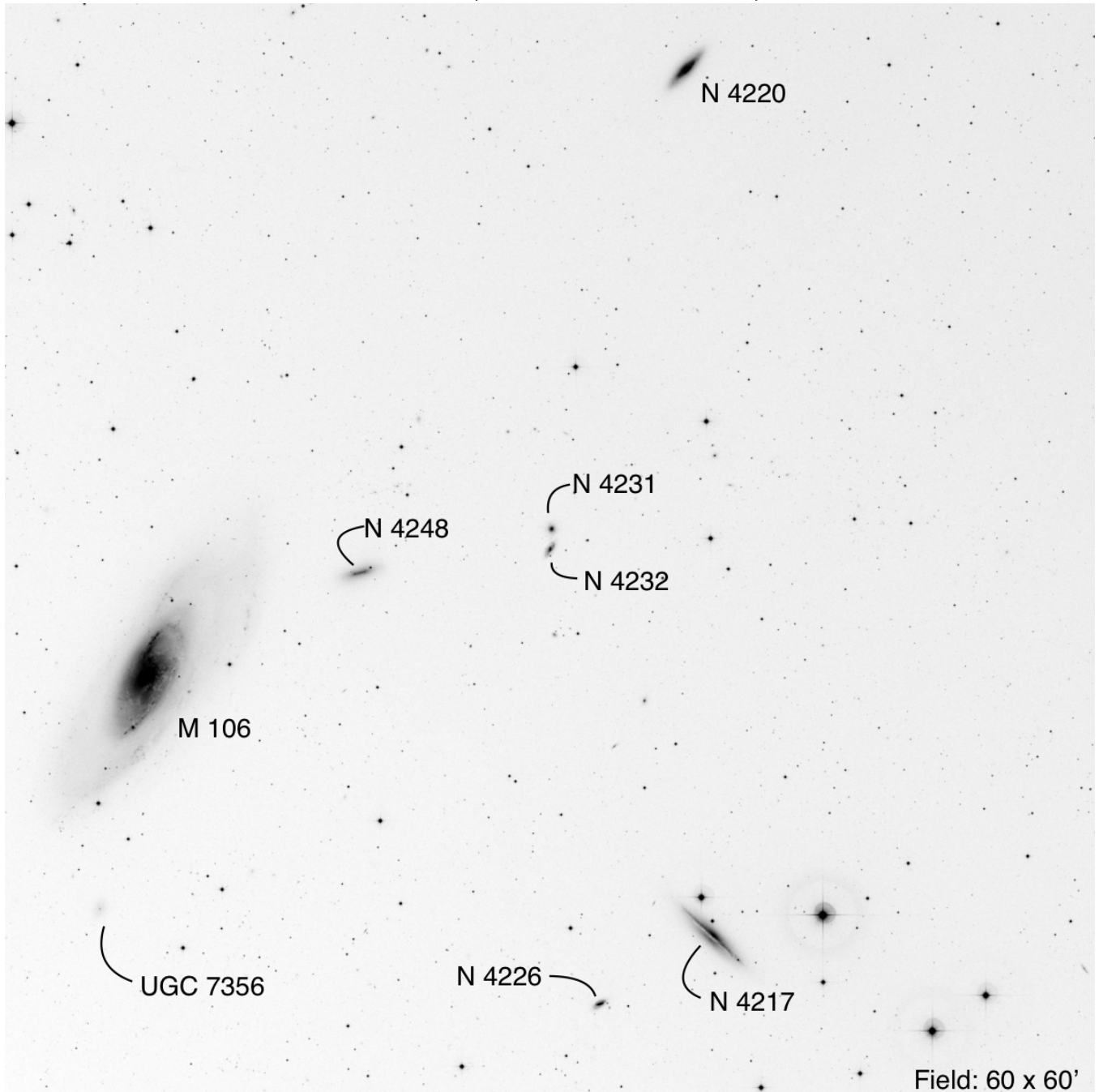


RA	Dec	Mag ₁	# of galaxies	iDSA
11 58 10.1	+25 07 19	13.1	15	33, 34

M 106 (Canes Venatici)

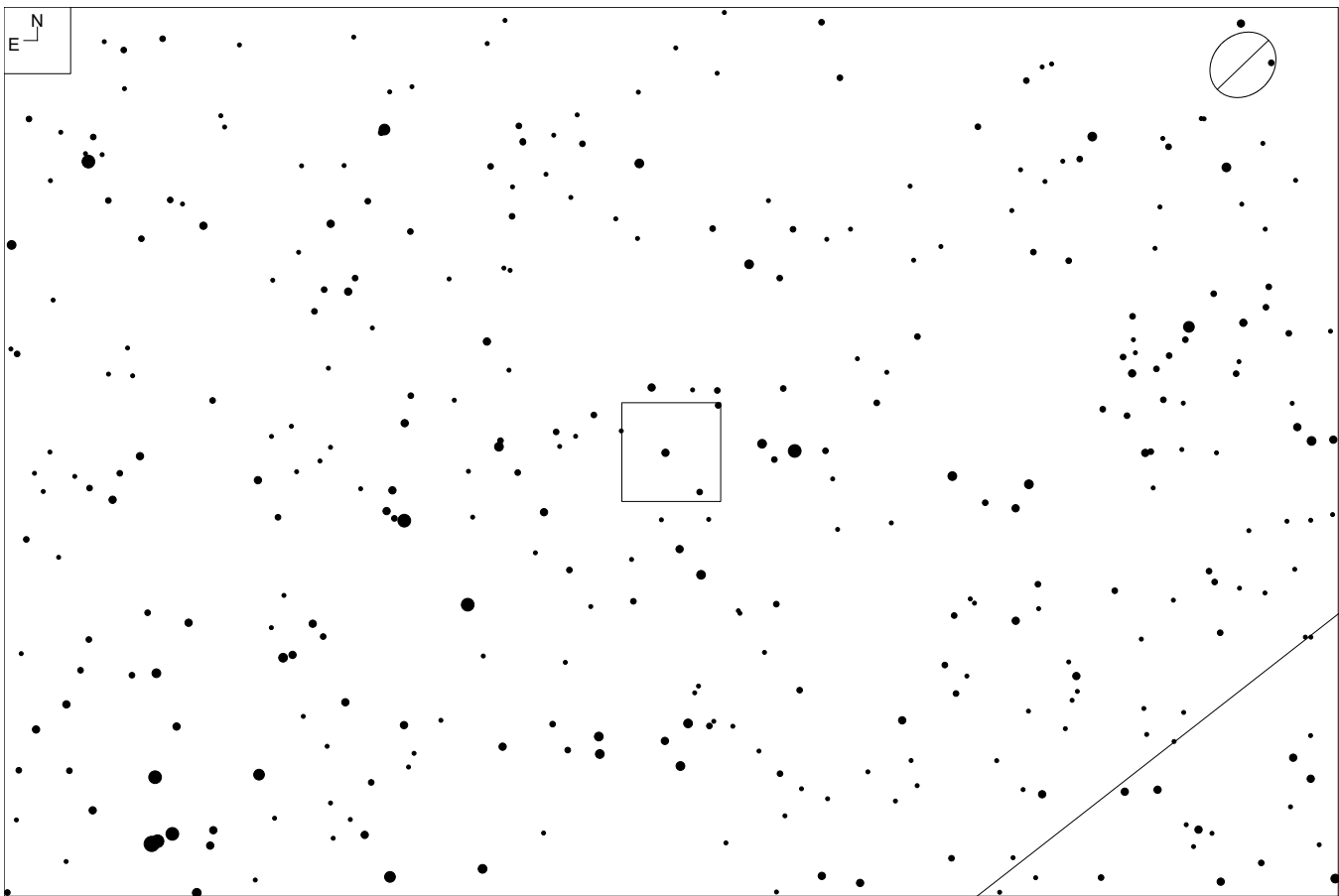
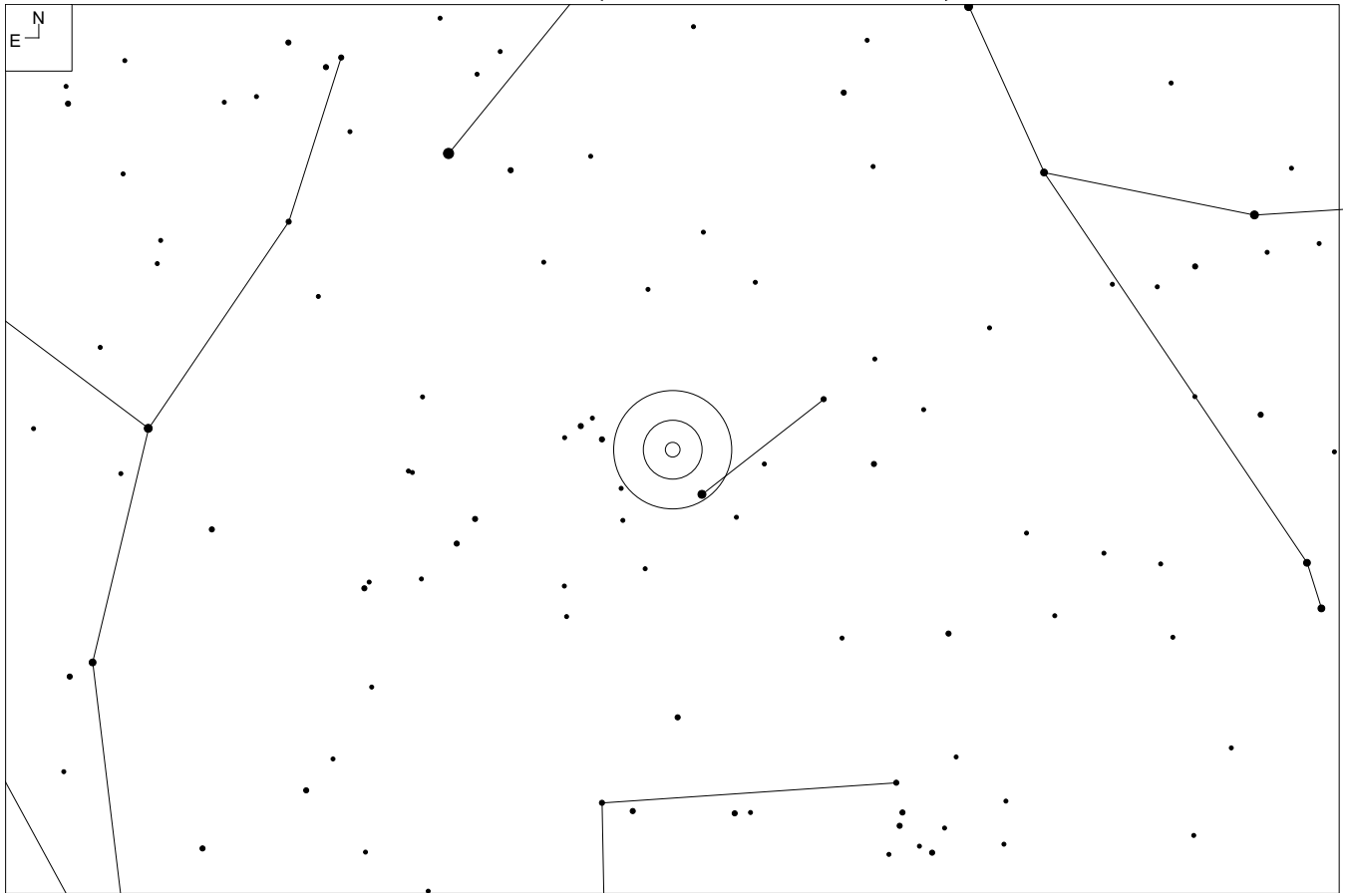


M 106 (Canes Venatici)

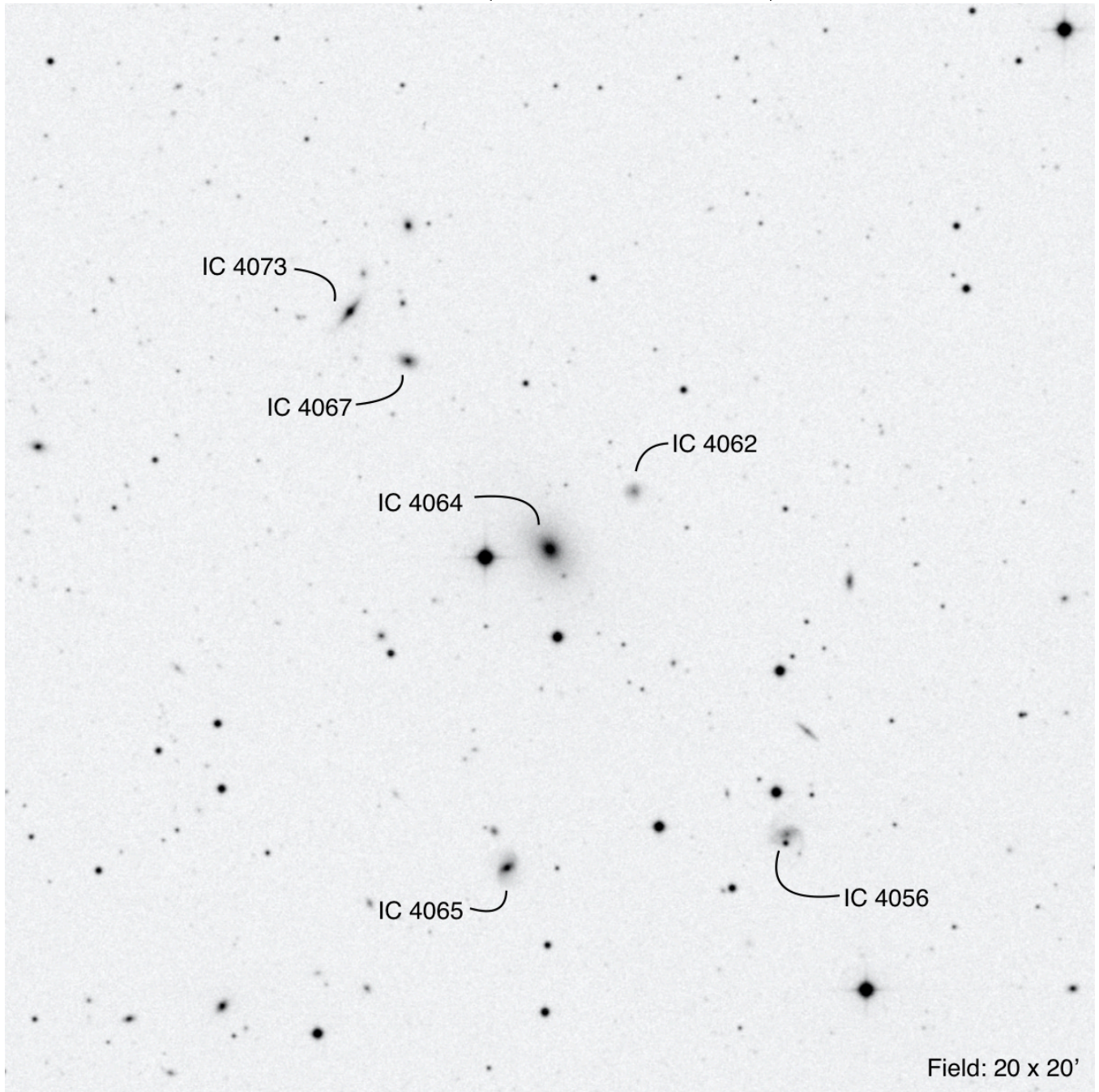


RA	Dec	Mag ₁	# of galaxies	iDSA
12 18 57.3	+47 18 31	8.4	8	21, 22

IC 4064 (Canes Venatici)

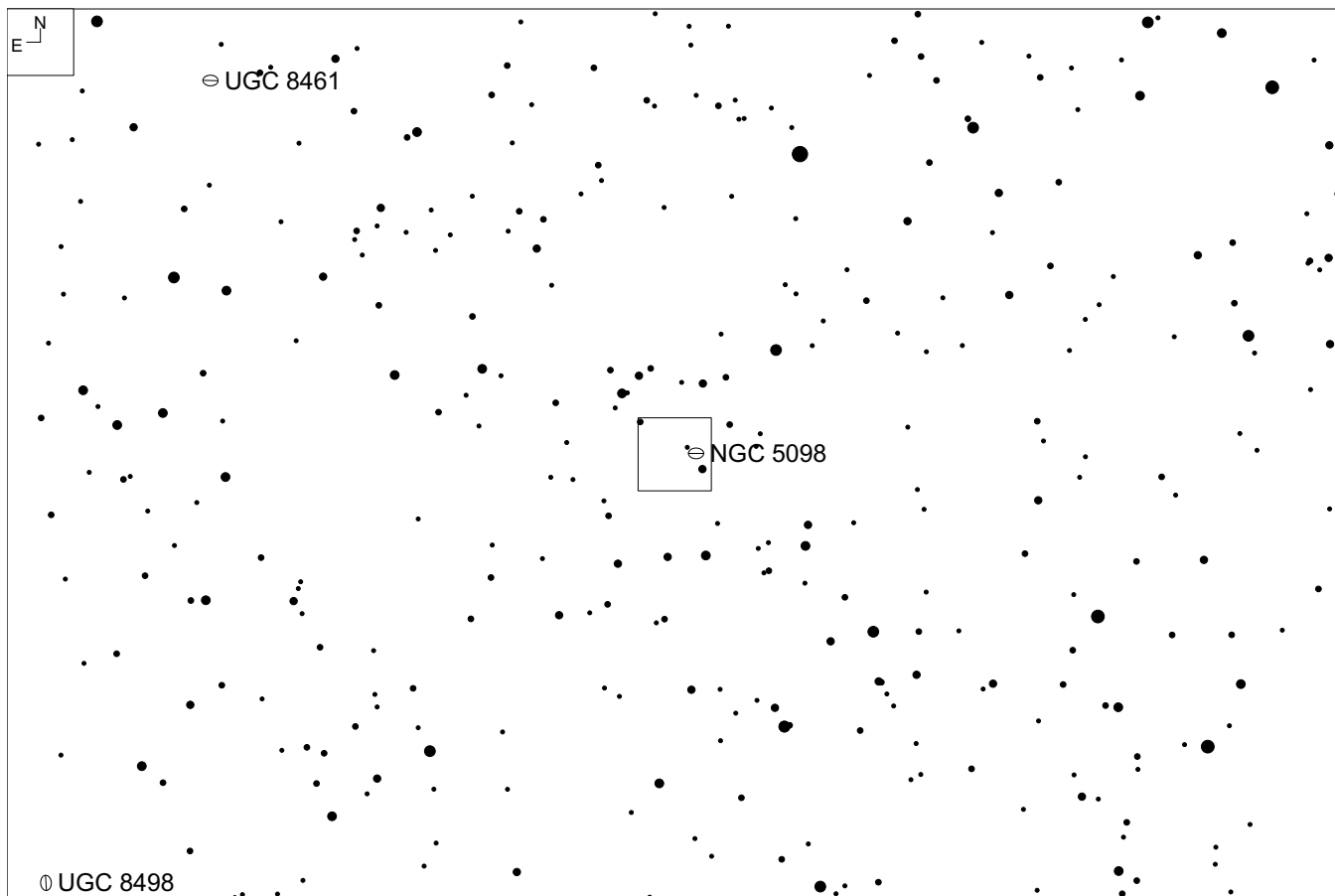
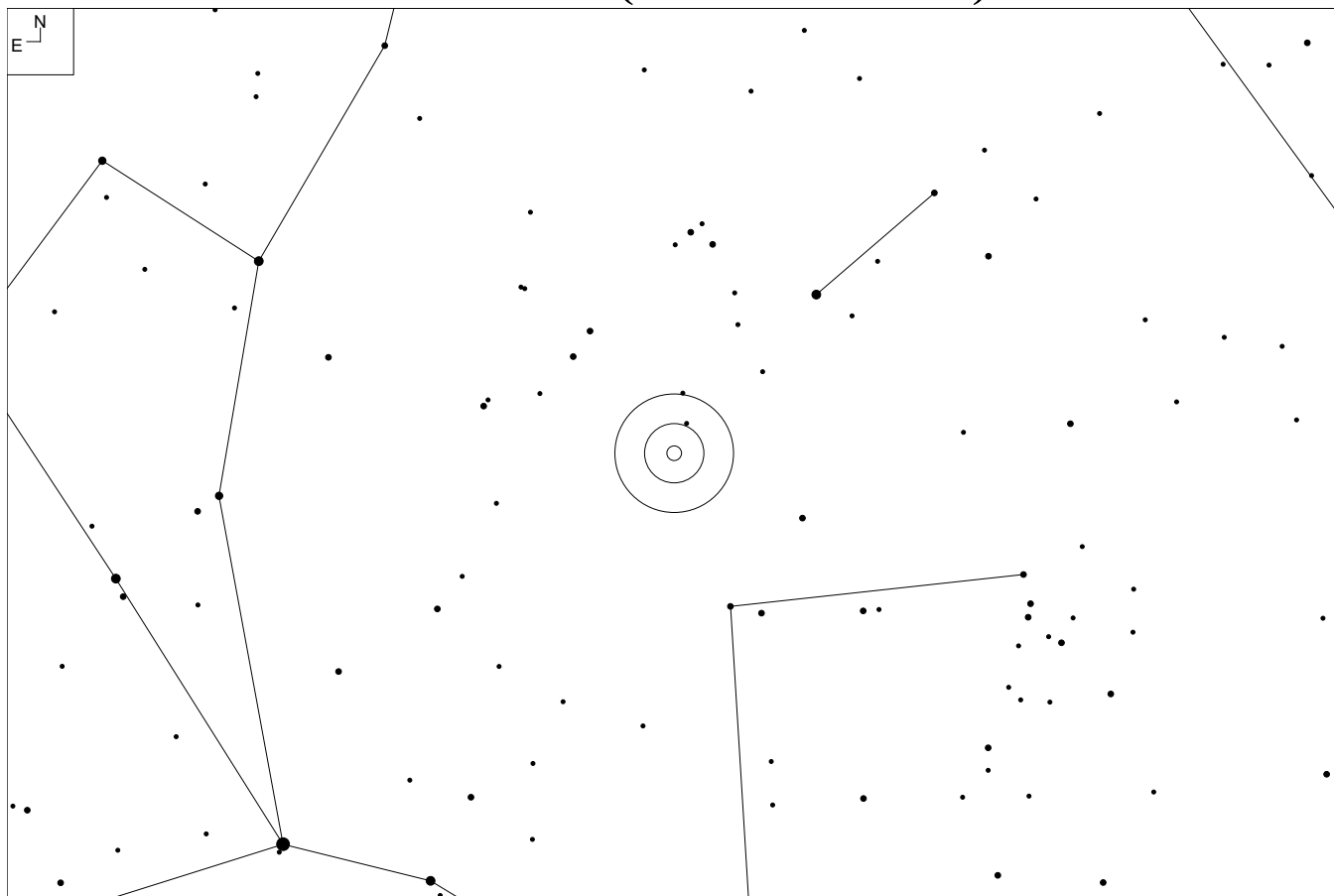


IC 4064 (Canes Venatici)

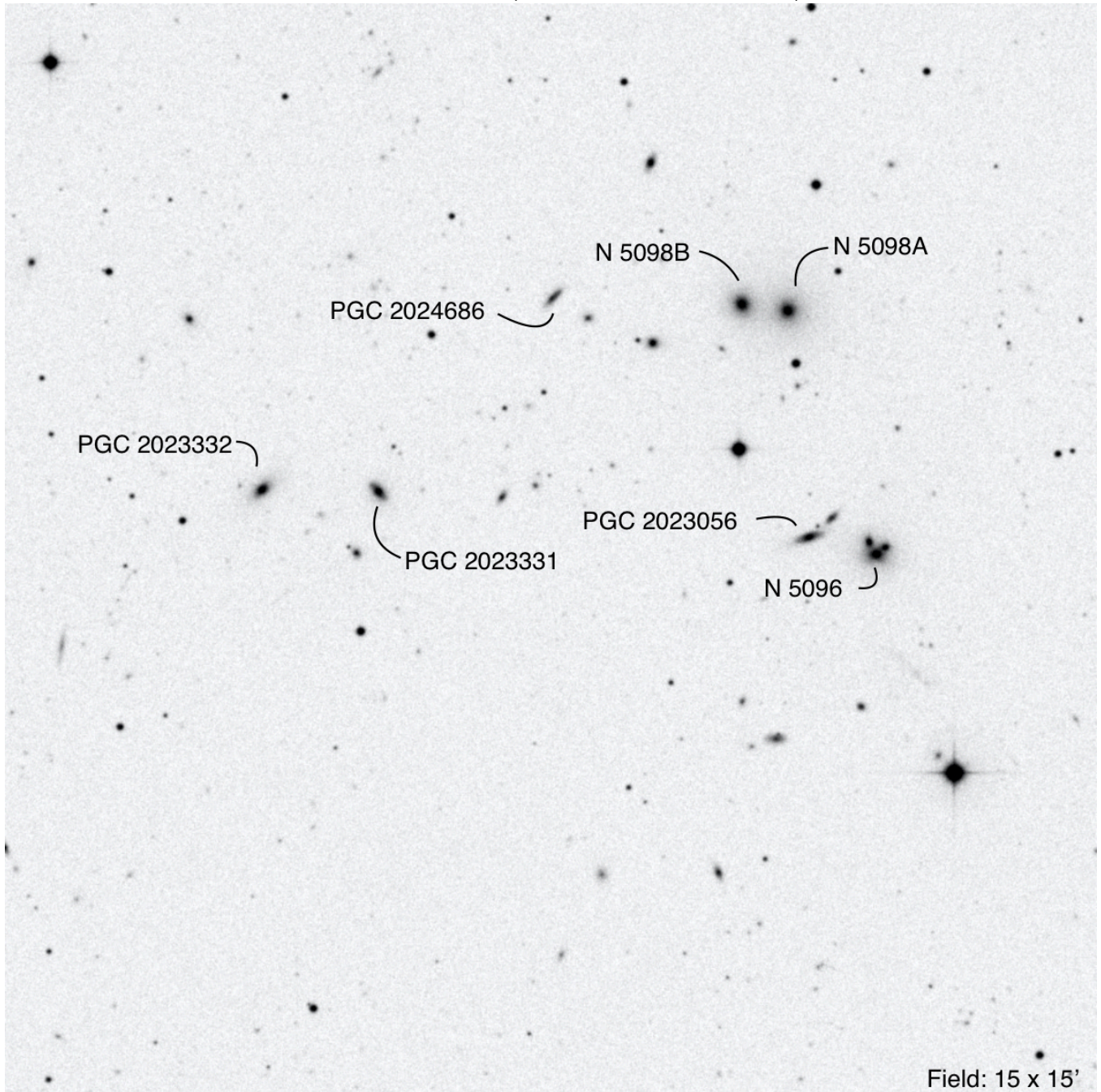


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 6	13 01 06.7	+39 50 29	14.7	6	21

NGC 5096 (Canes Venatici)

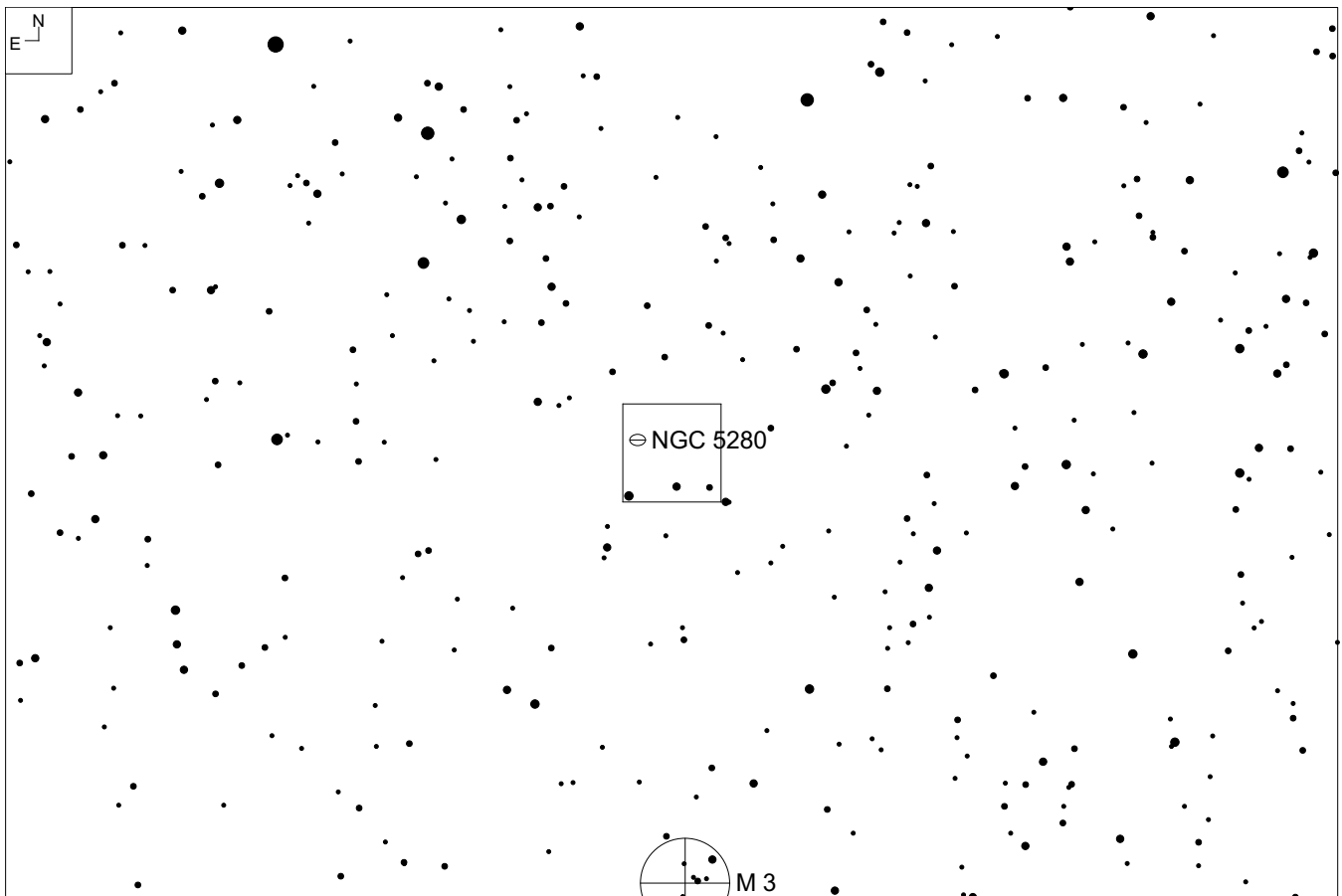
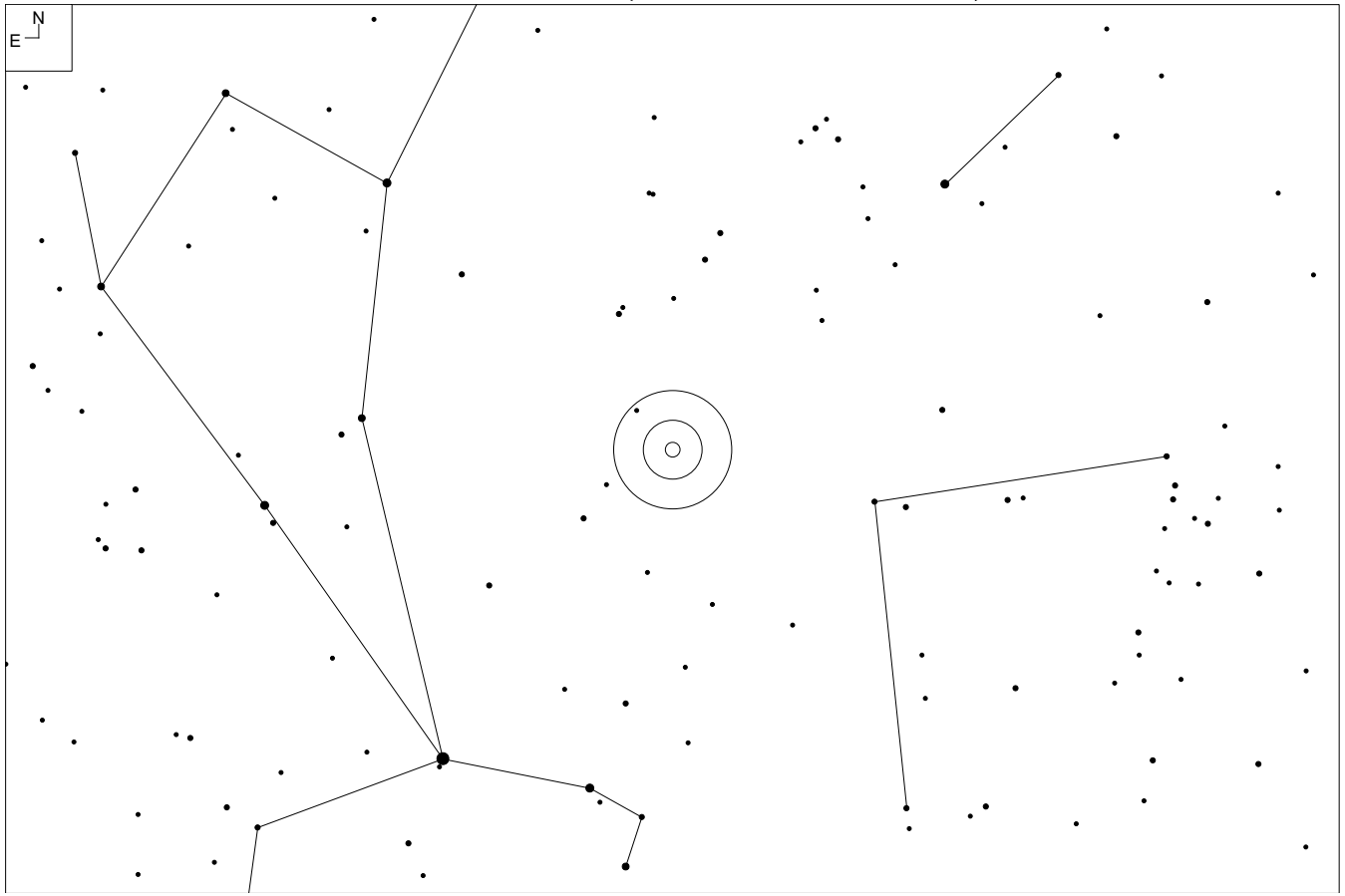


NGC 5096 (Canes Venatici)

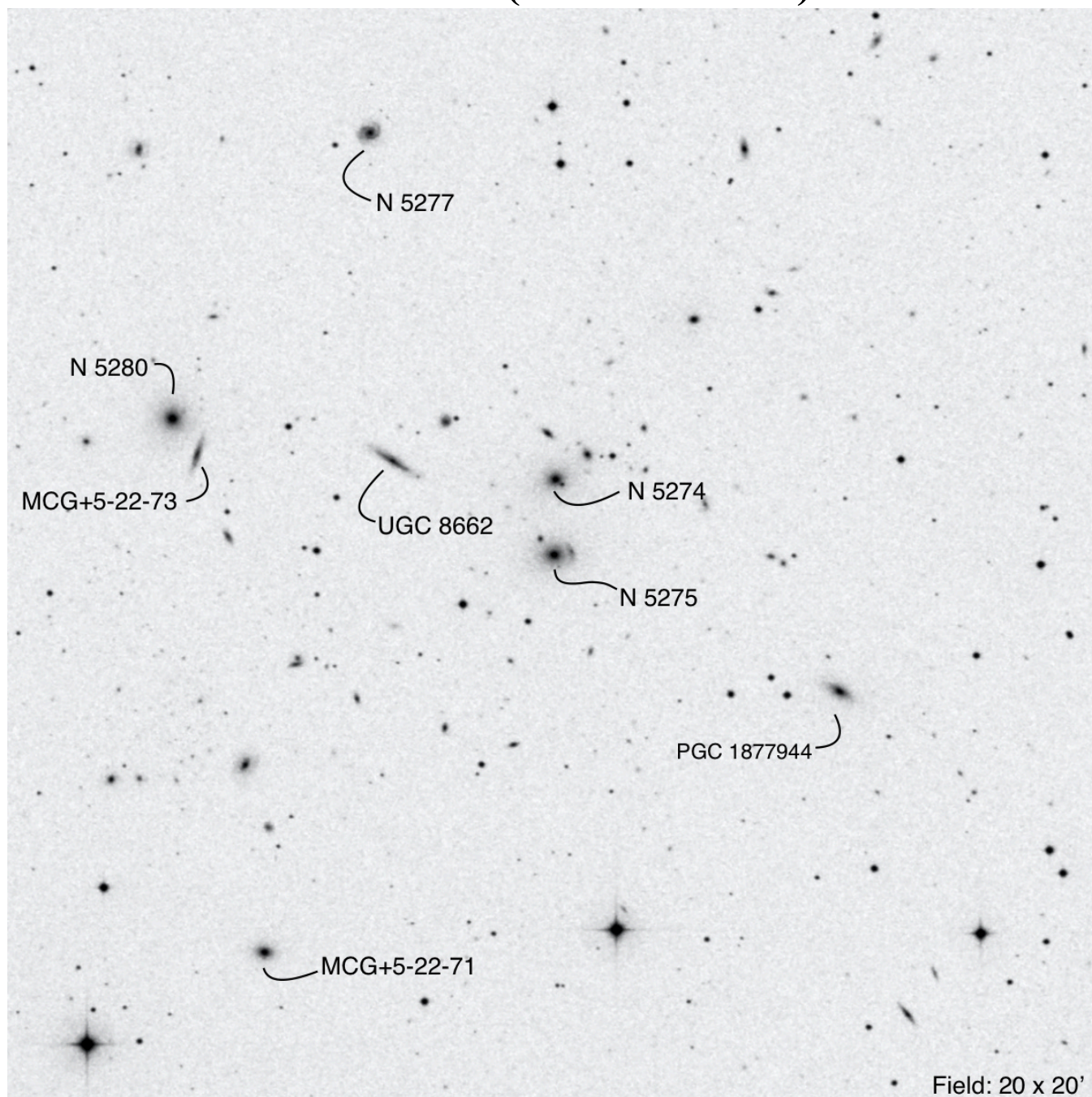


RA	Dec	Mag ₁	# of galaxies	iDSA
13 20 30.0	+33 05 17	14.6	7	33

NGC 5280 (Canes Venatici)



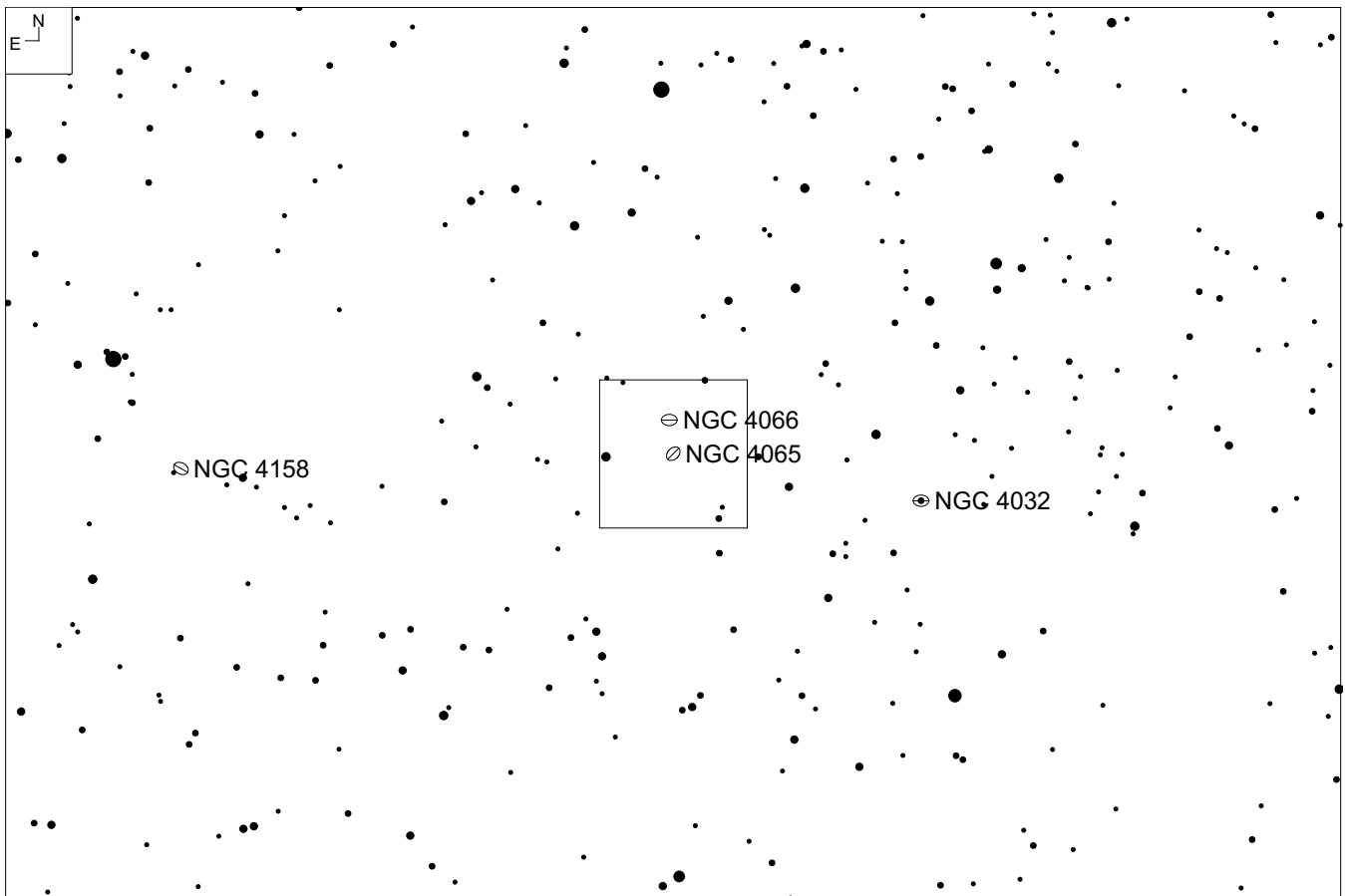
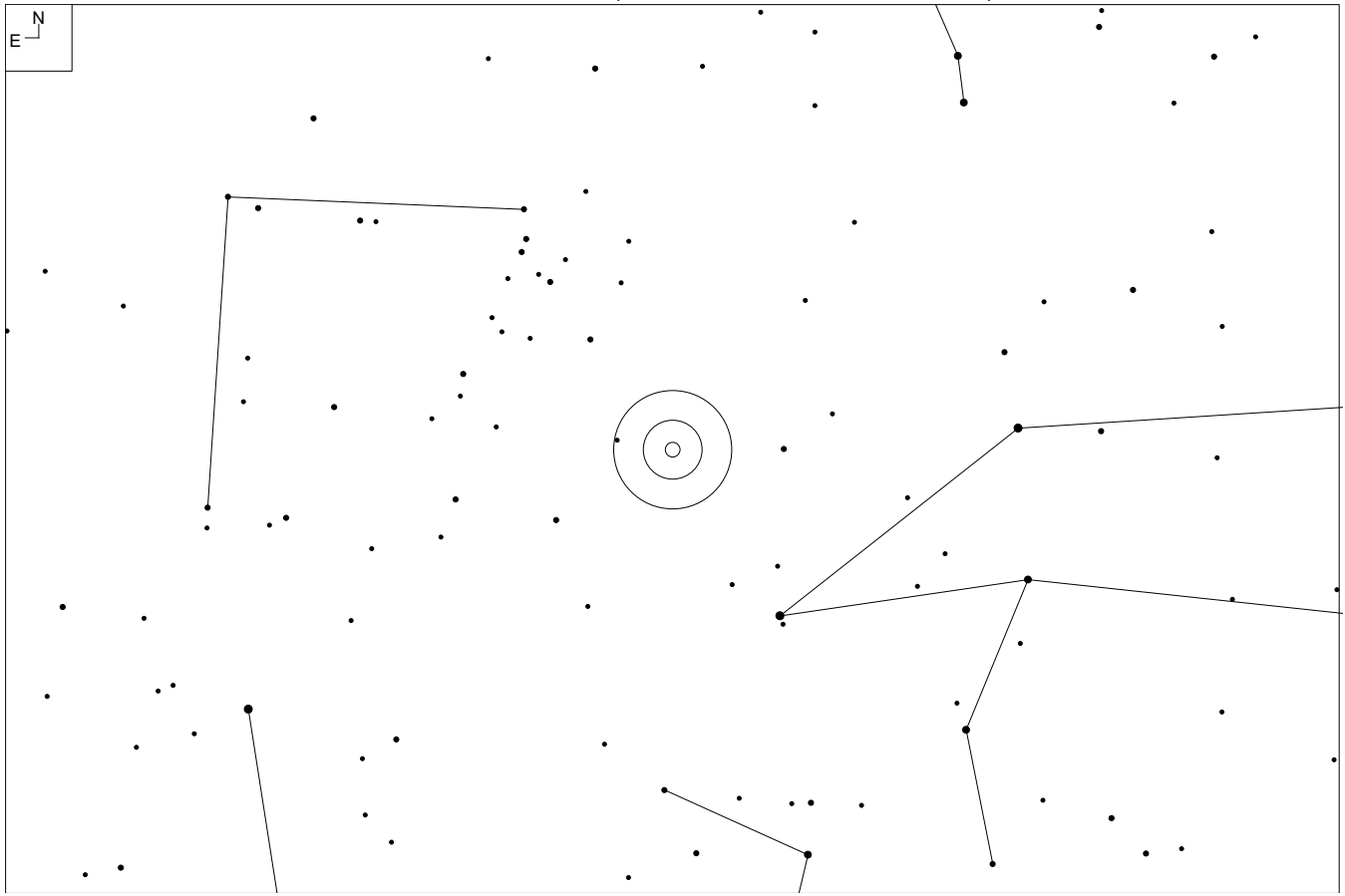
NGC 5280 (Canes Venatici)



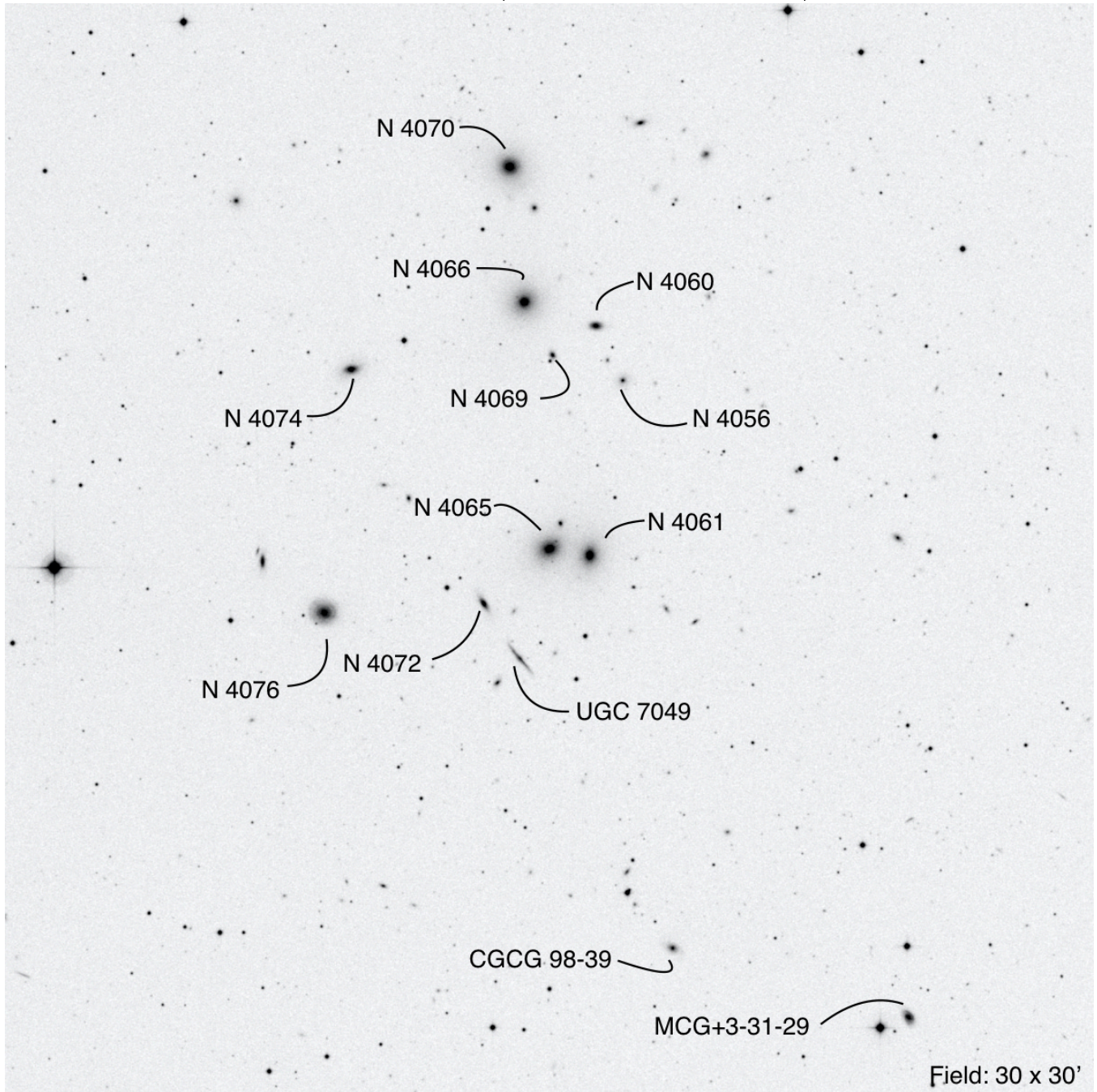
Field: 20 x 20'

RA	Dec	Mag ₁	# of galaxies	iDSA
13 42 55.6	+29 52 06	13.6	8	33

NGC 4065 (Coma Berenices)



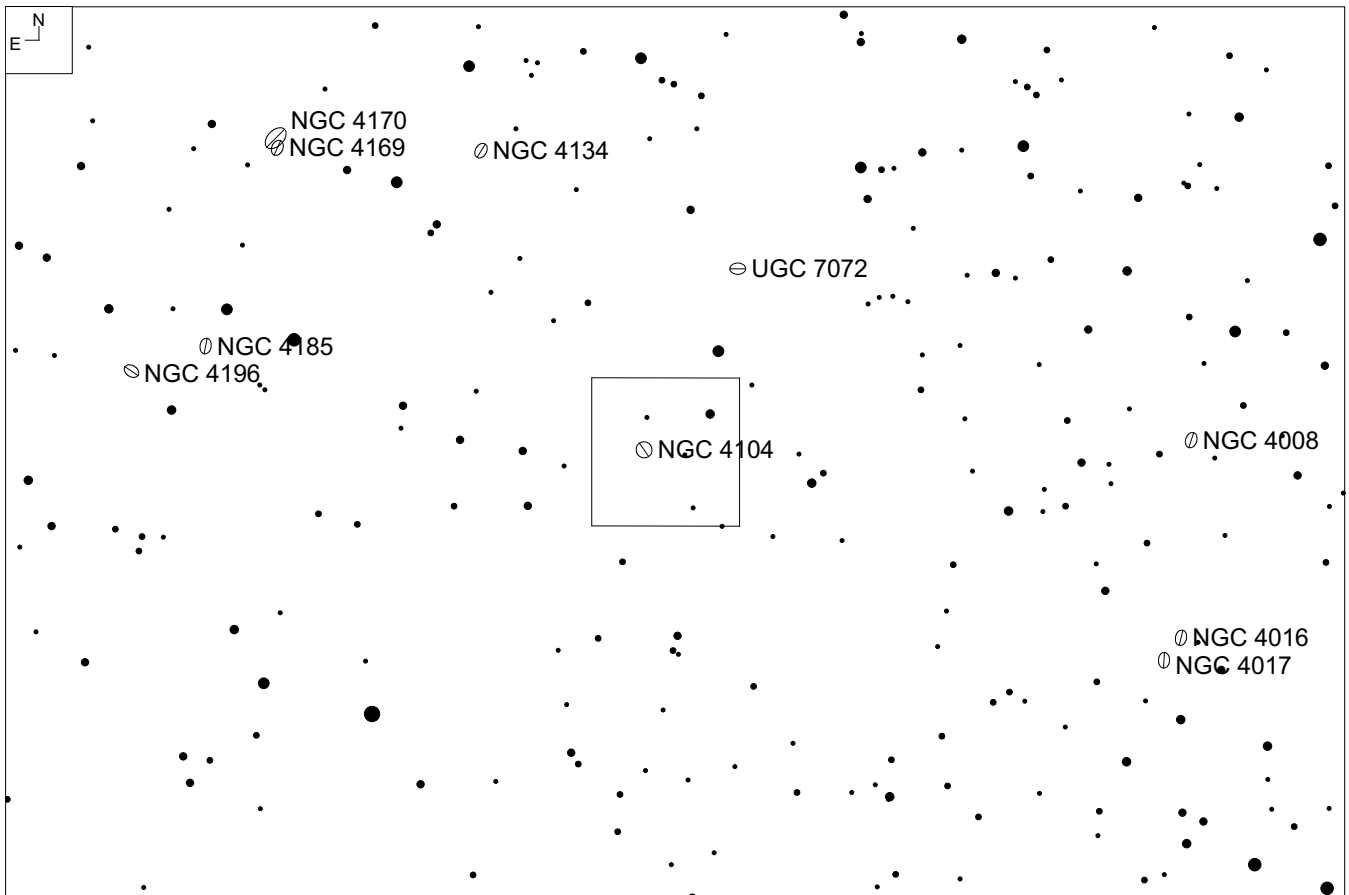
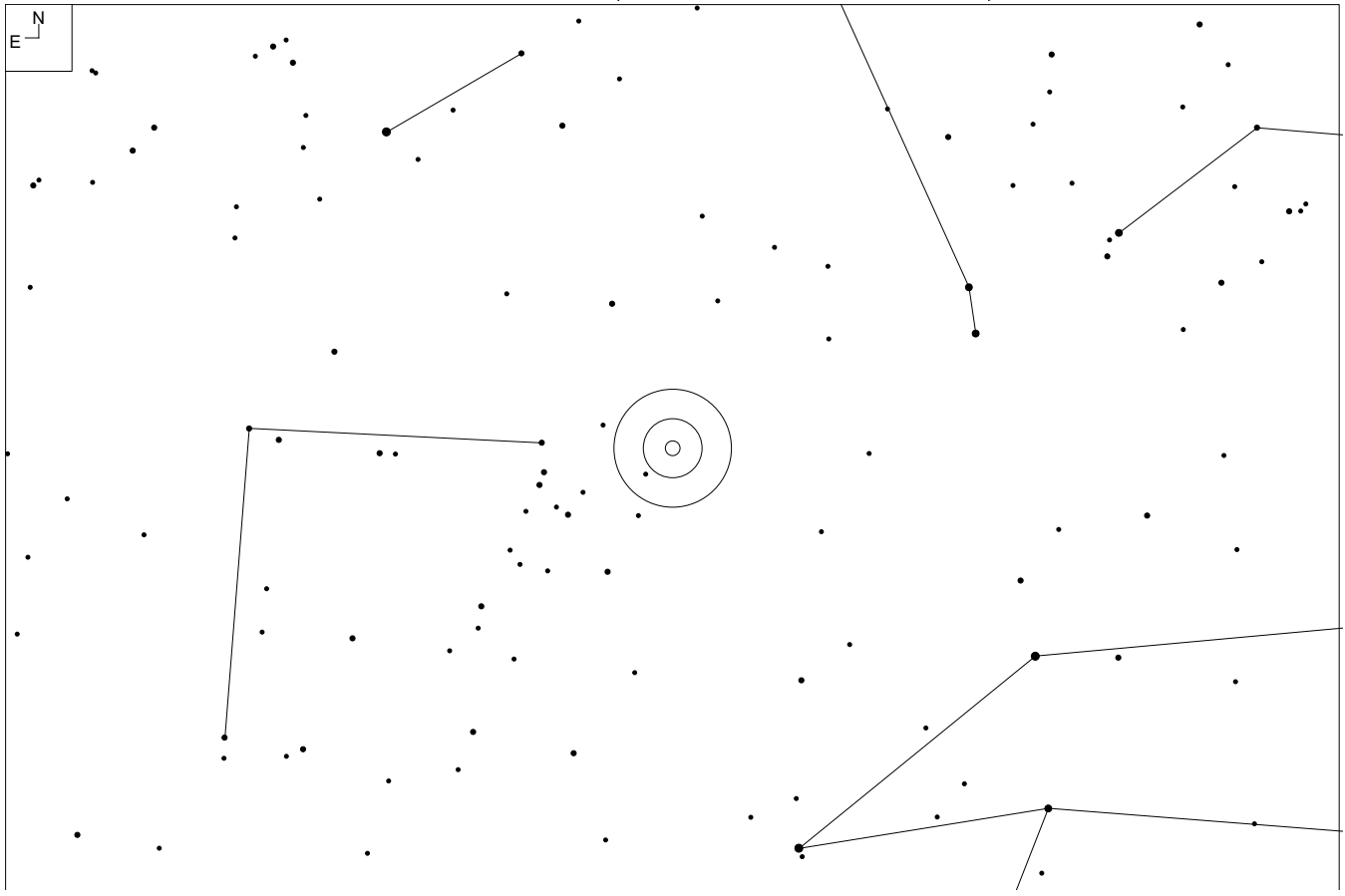
NGC 4065 (Coma Berenices)



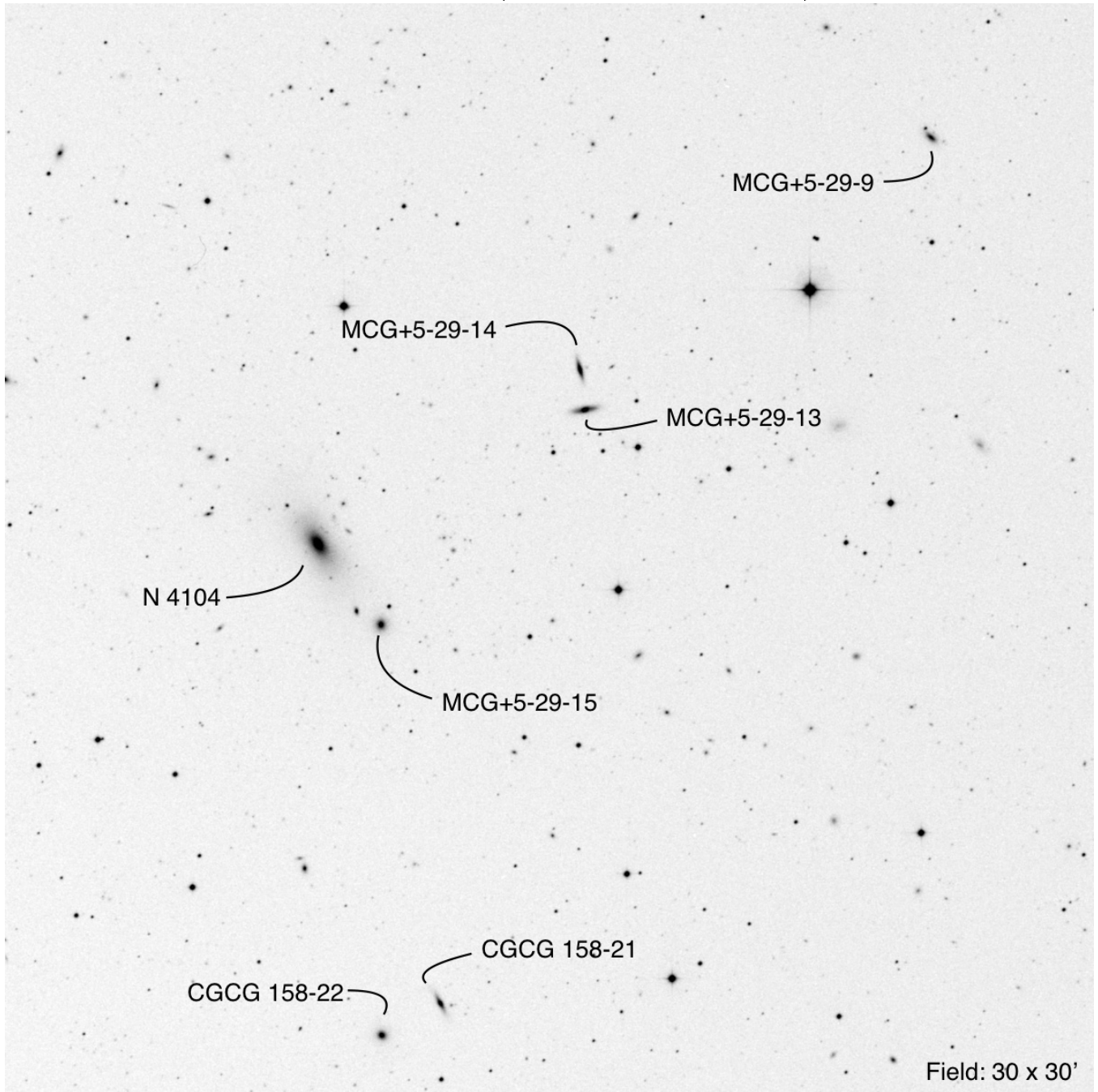
RA	Dec	Mag ₁	# of galaxies	iDSA
12 04 06.2	+20 14 07	12.6	13	34, 45, 46

Note: NGC 4061 = NGC 4055

NGC 4104 (Coma Berenices)

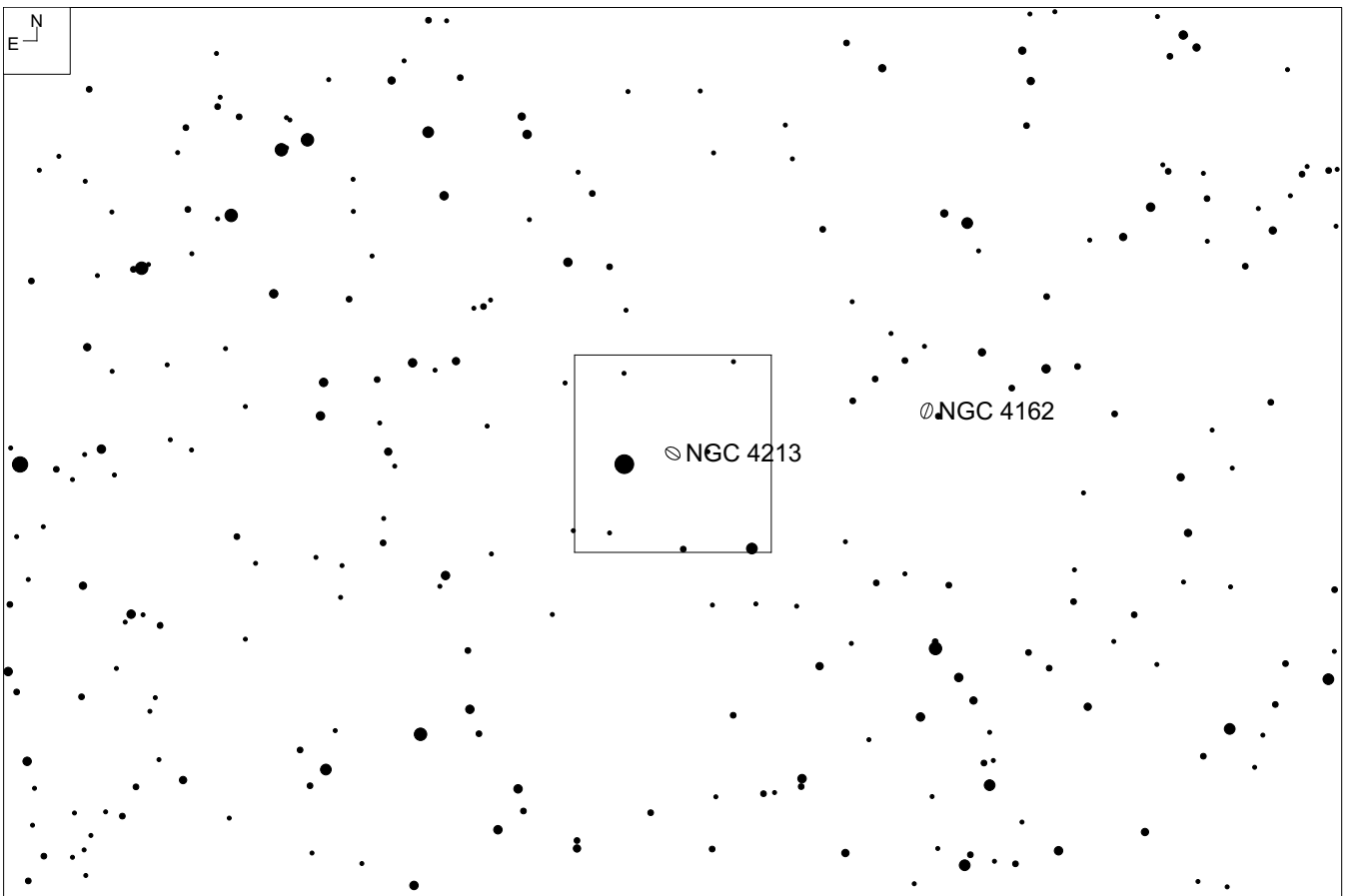
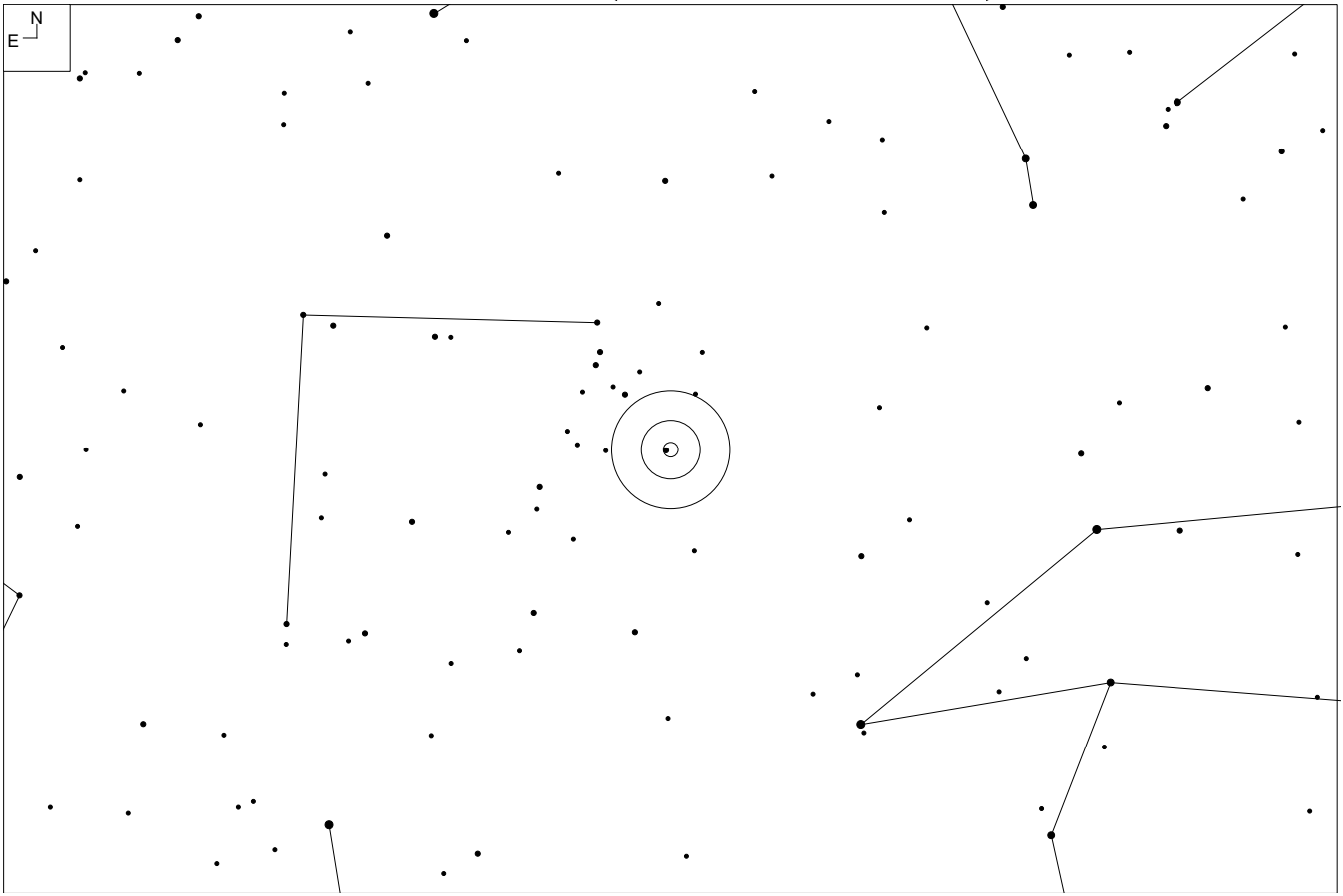


NGC 4104 (Coma Berenices)

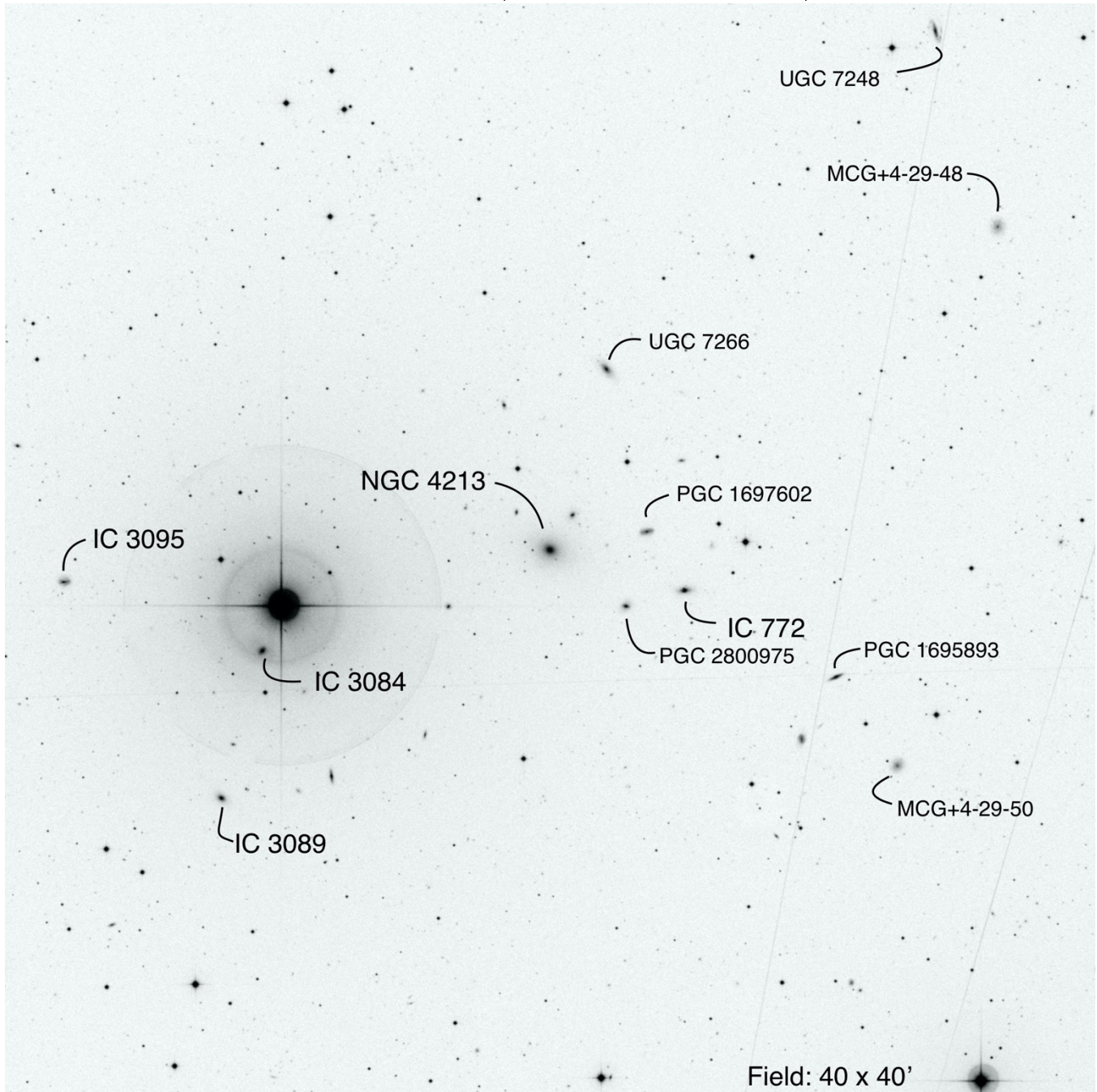


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 4s	12 06 38.9	+28 10 27	13.1	7	33, 34

NGC 4213 (Coma Berenices)

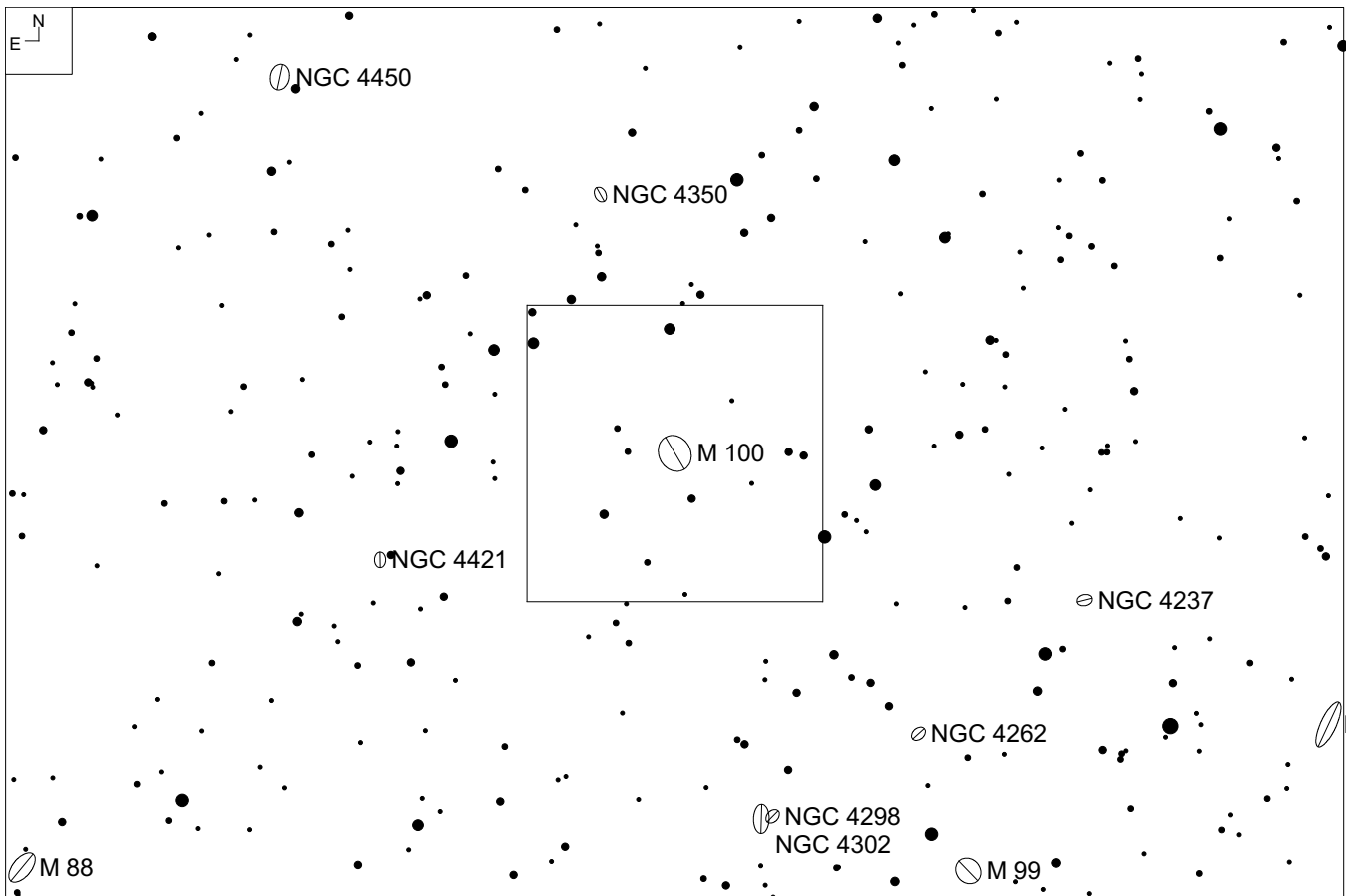
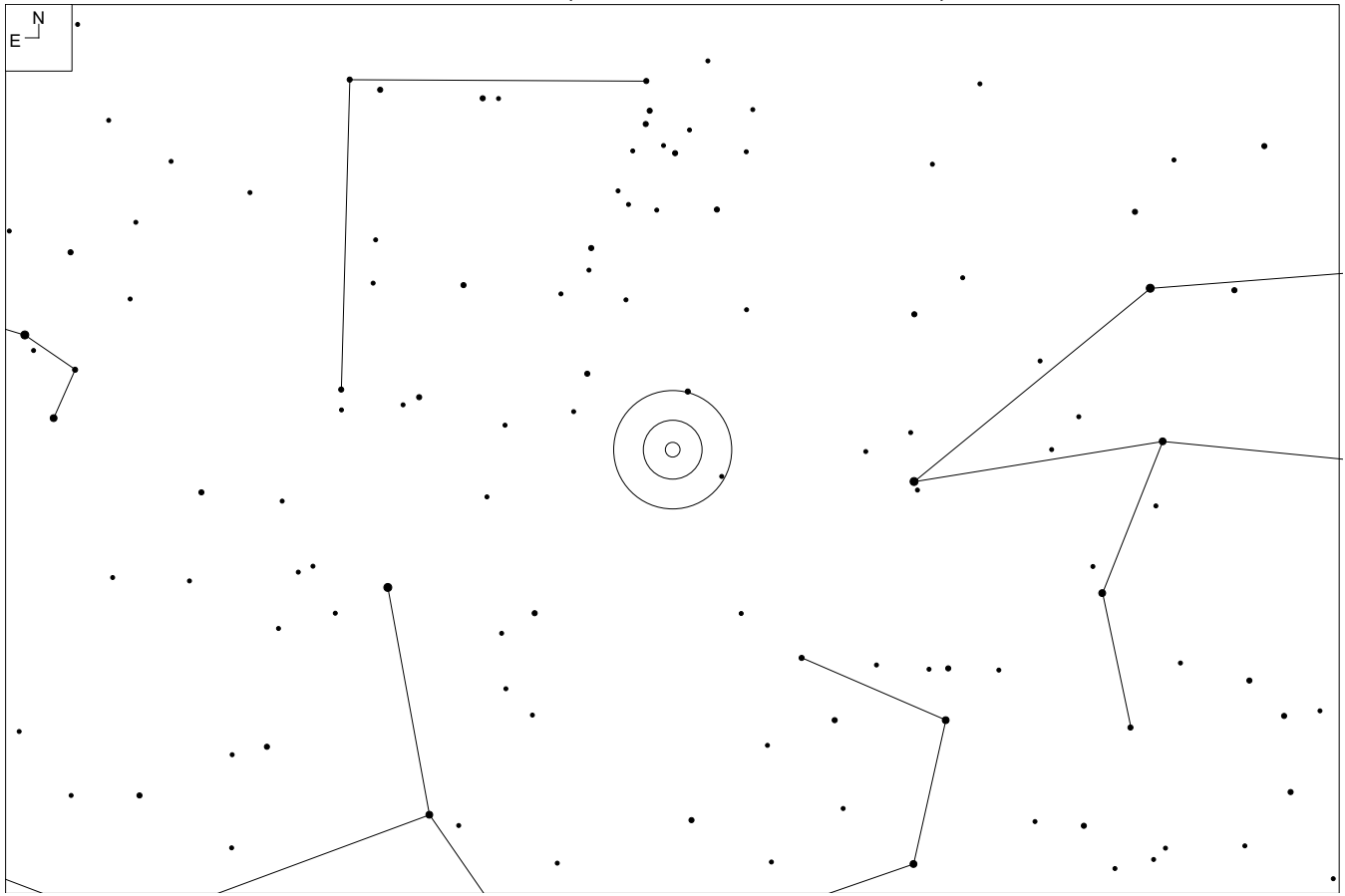


NGC 4213 (Coma Berenices)

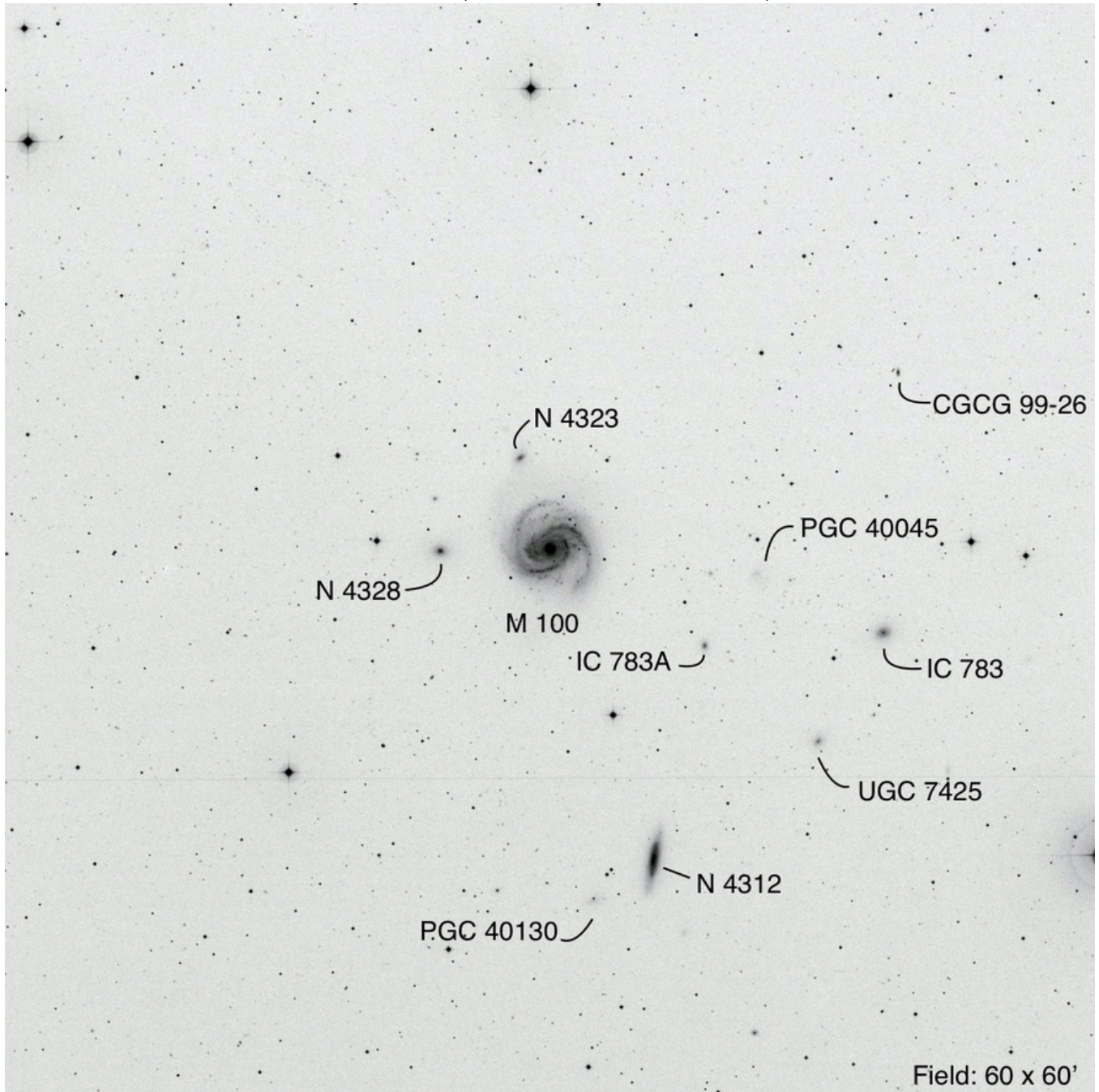


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 2	12 15 37.6	+23 58 56	13.5	12	33, 45

M 100 (Coma Berenices)

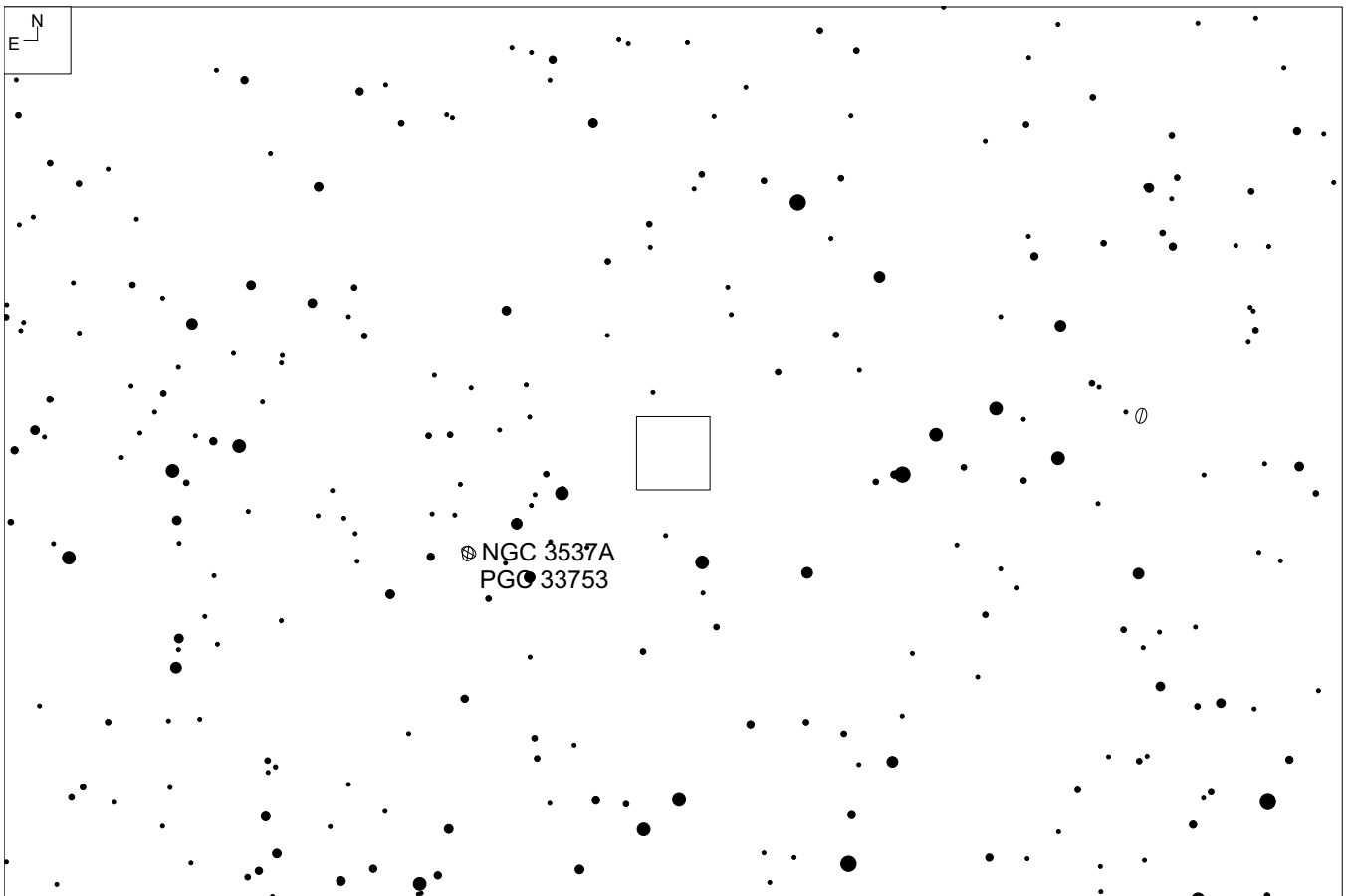
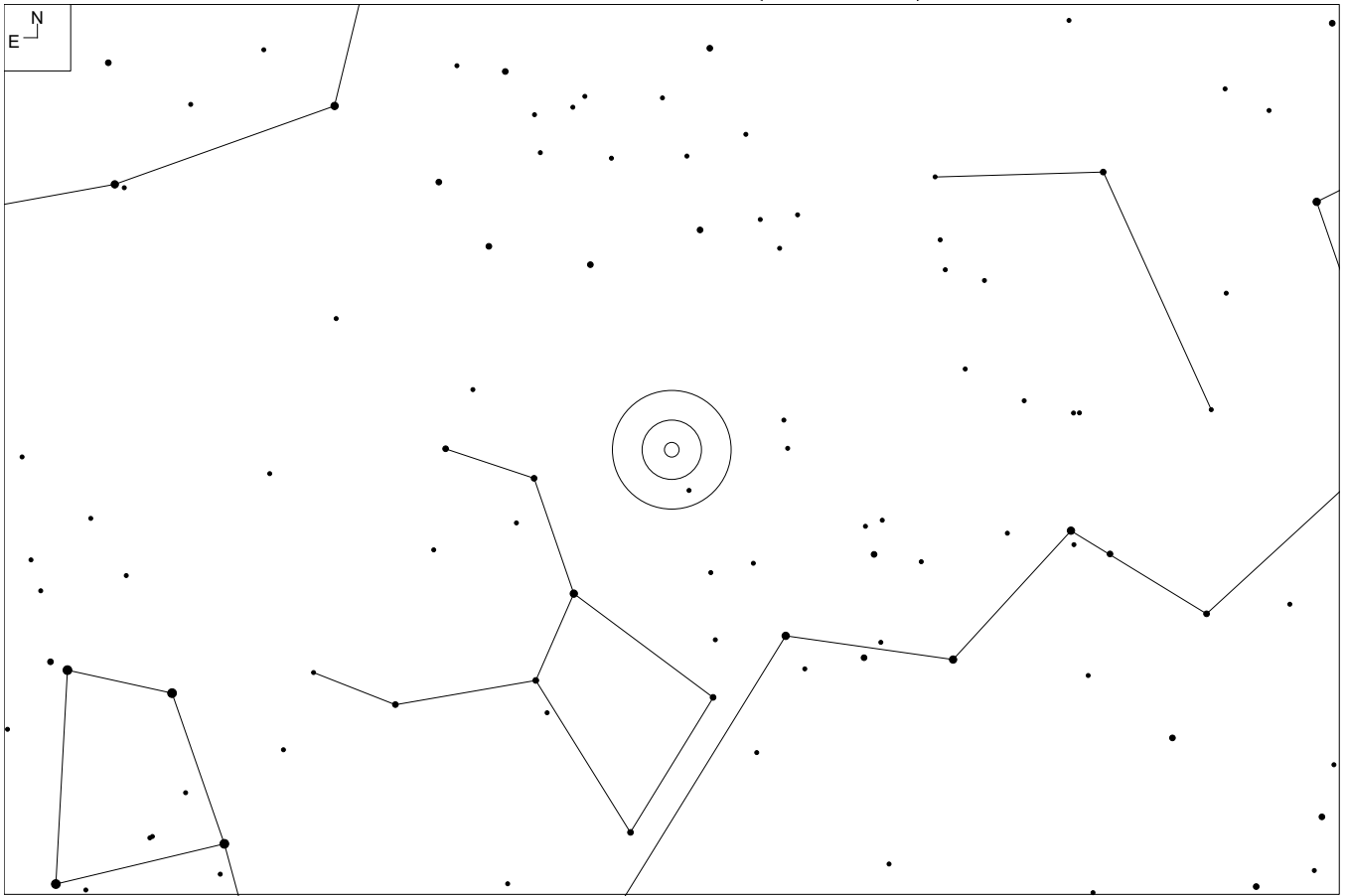


M 100 (Coma Berenices)

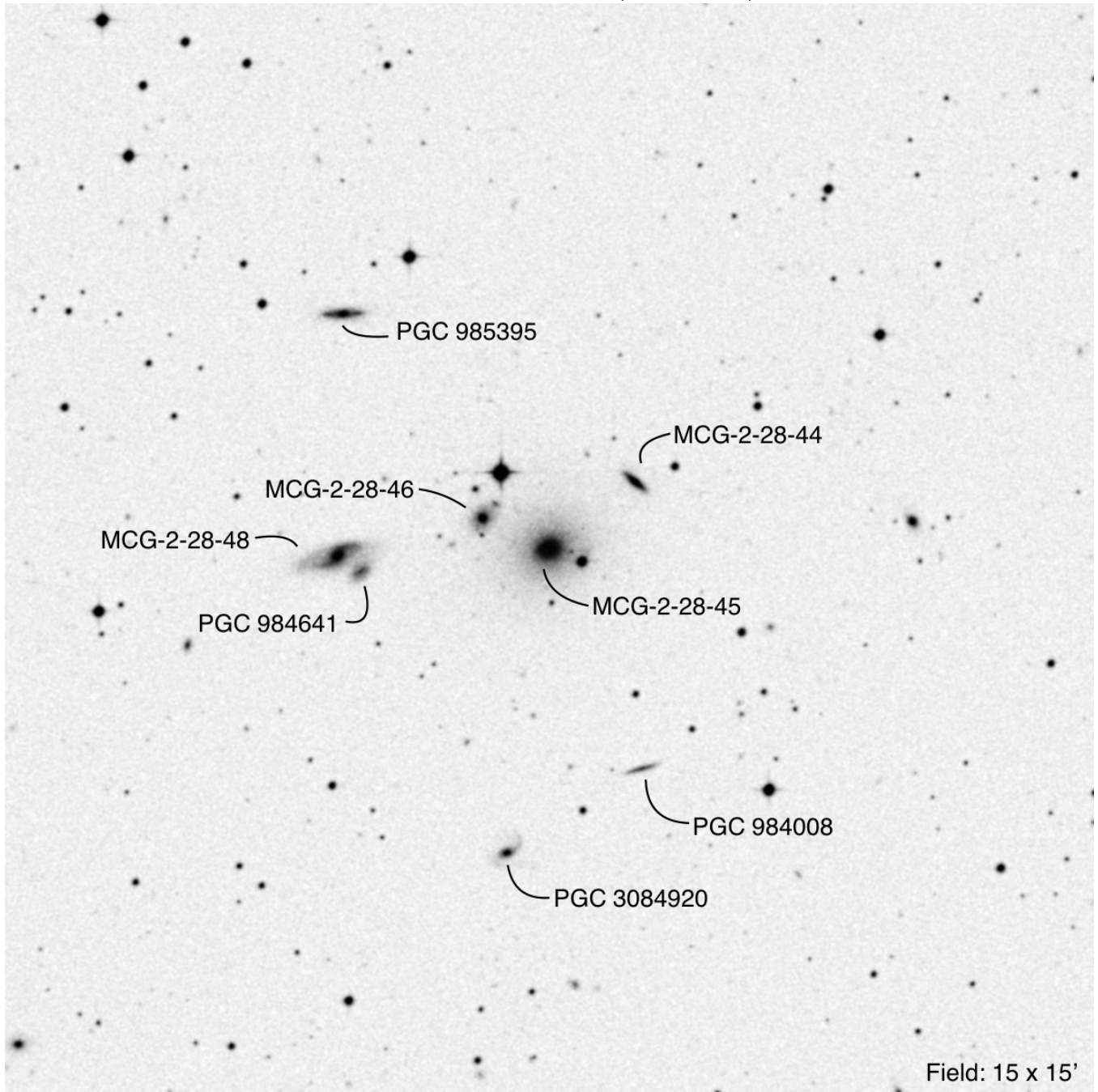


RA	Dec	Mag ₁	# of galaxies	iDSA
12 22 55.0	+15 49 25	9.3	10	45, D2

MCG-2-28-45 (Crater)

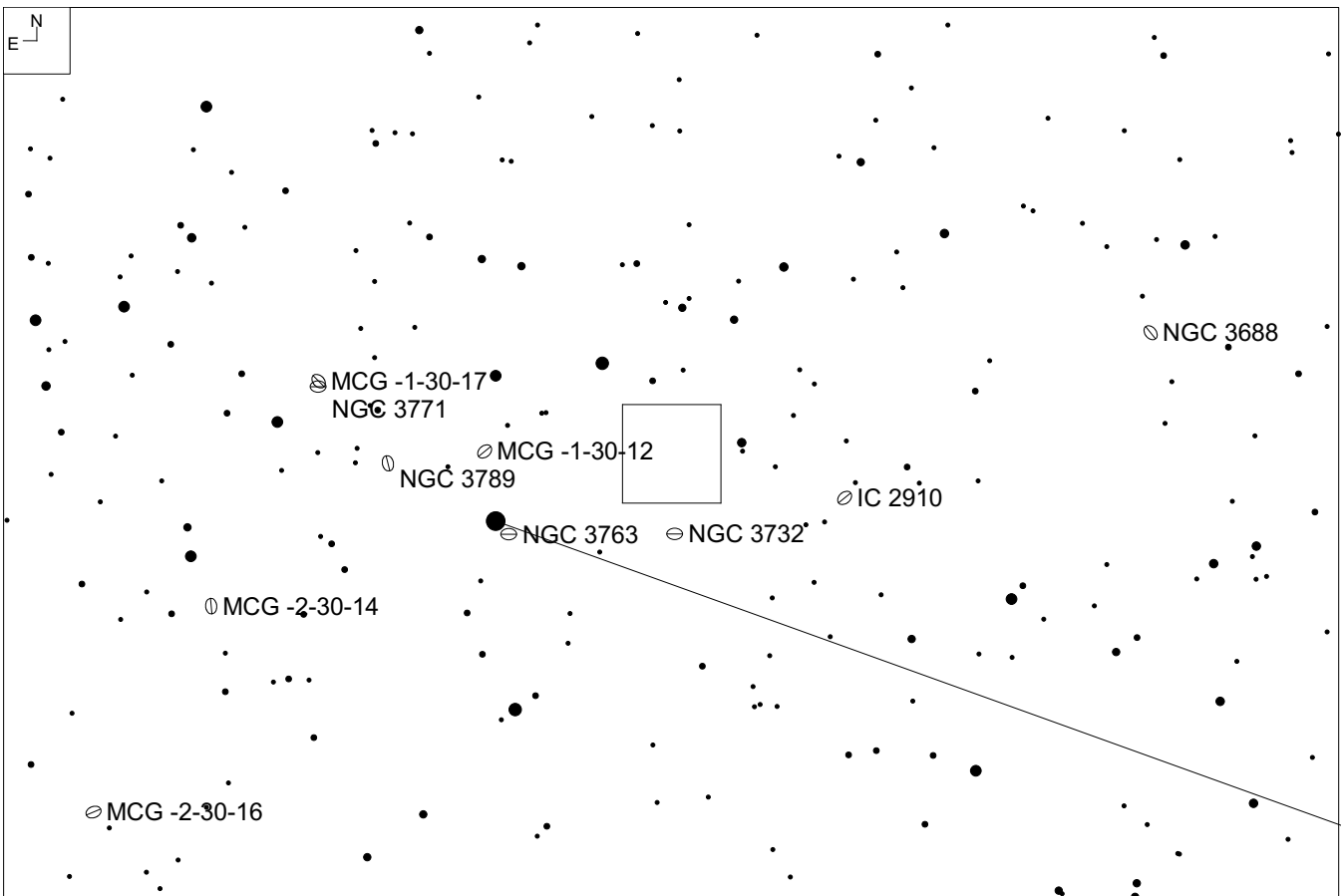
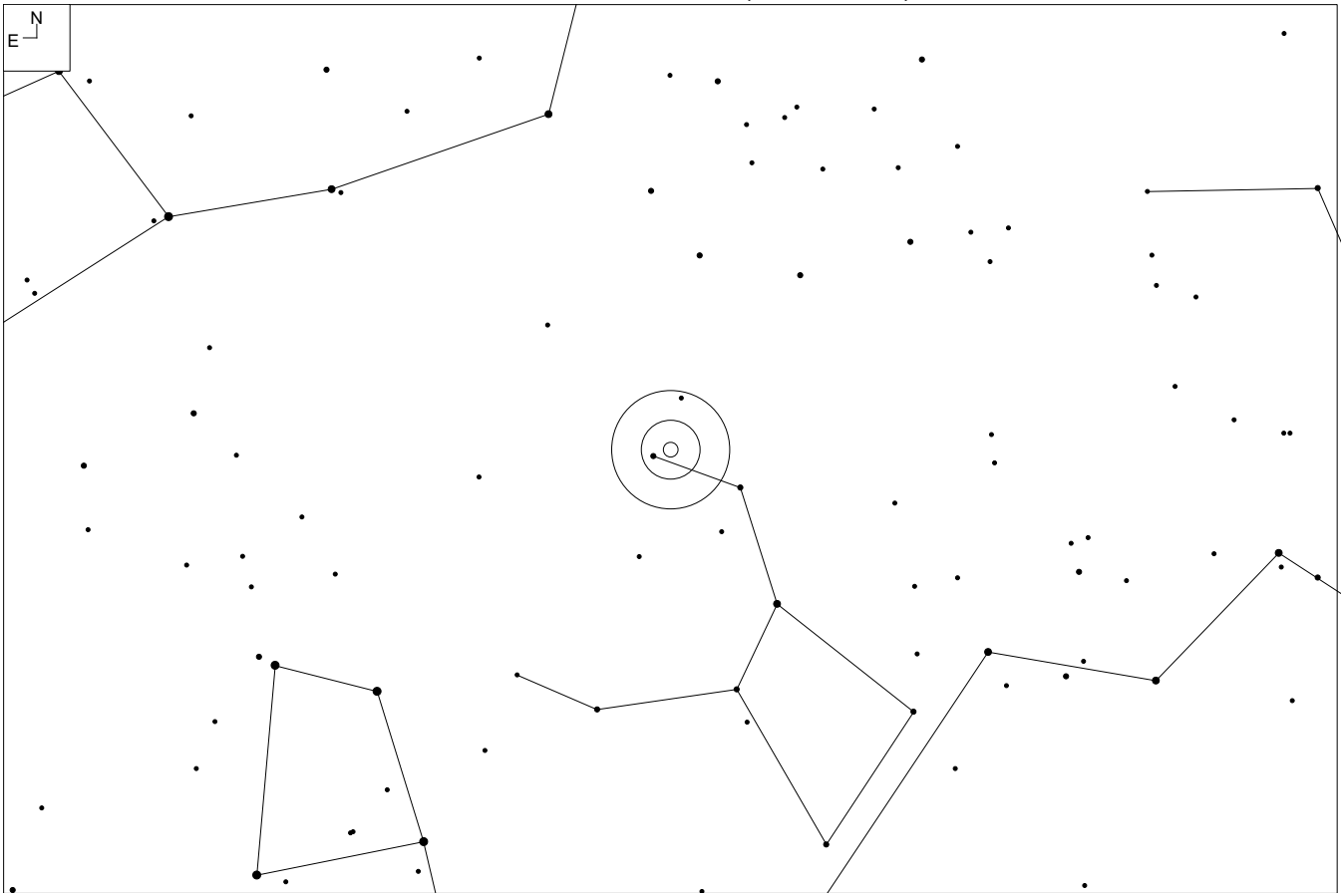


MCG-2-28-45 (Crater)

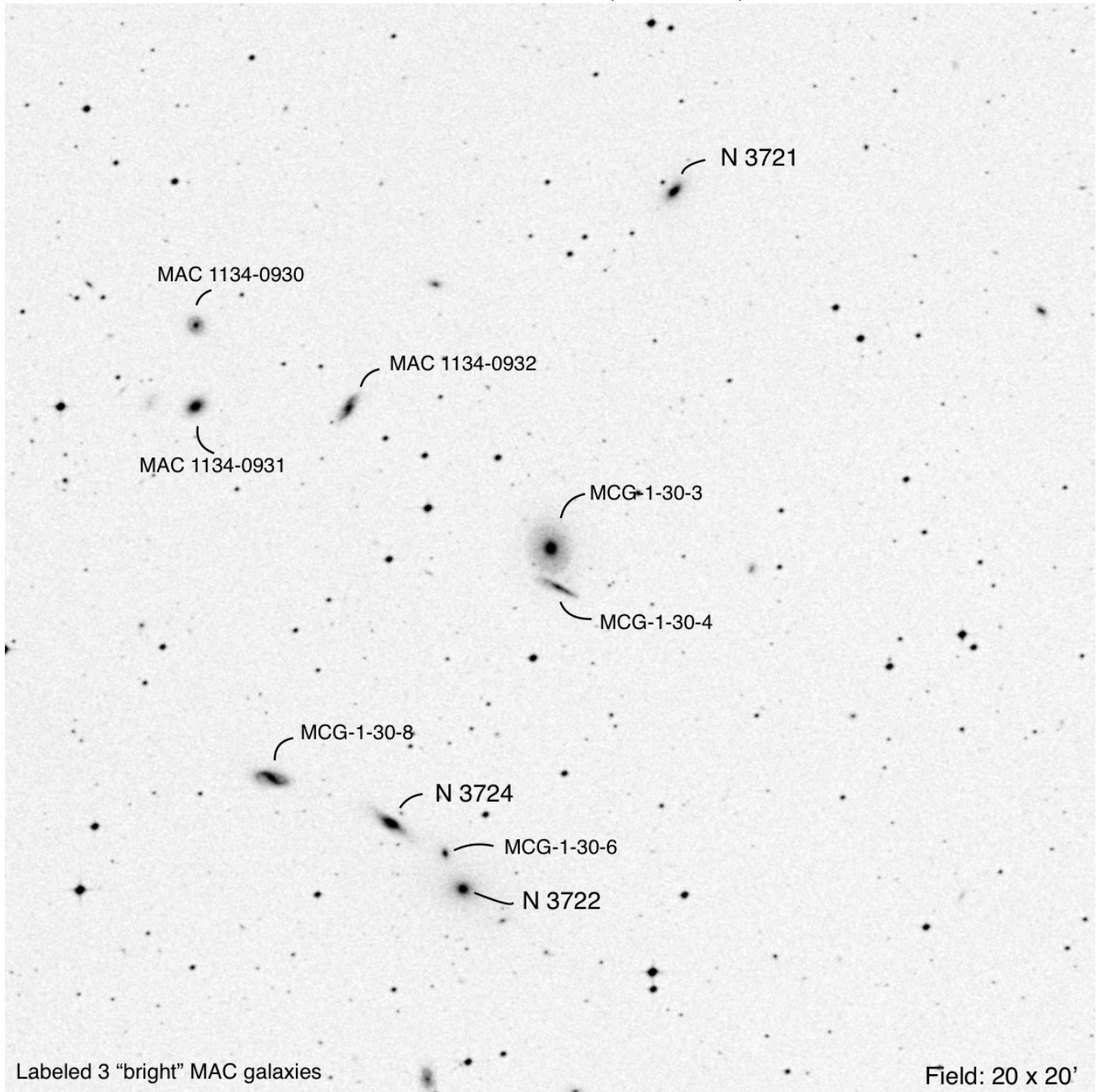


RA	Dec	Mag ₁	# of galaxies	iDSA
11 05 38.9	-09 55 26	13.2	8	70

MCG-1-30-3 (Crater)



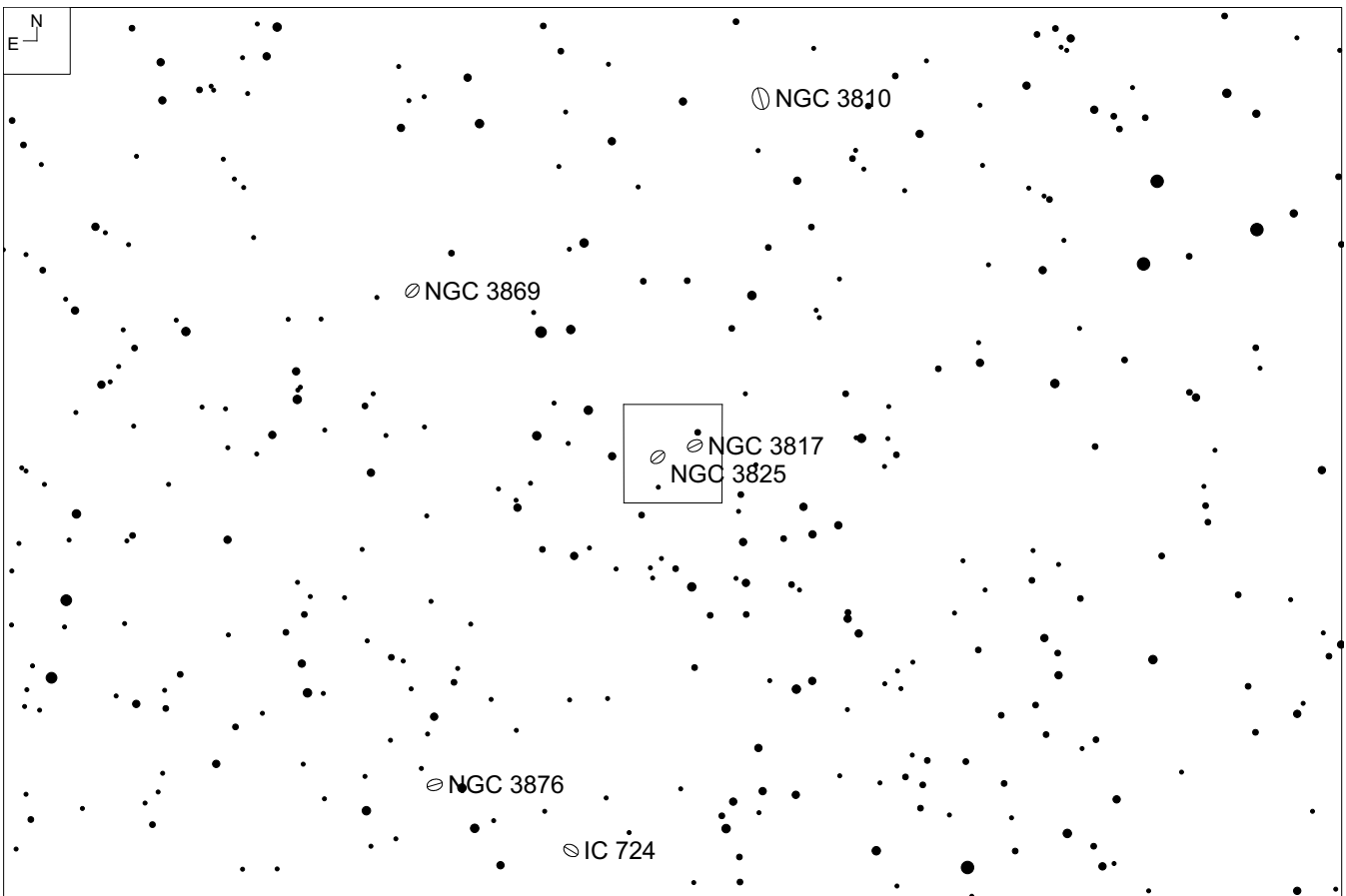
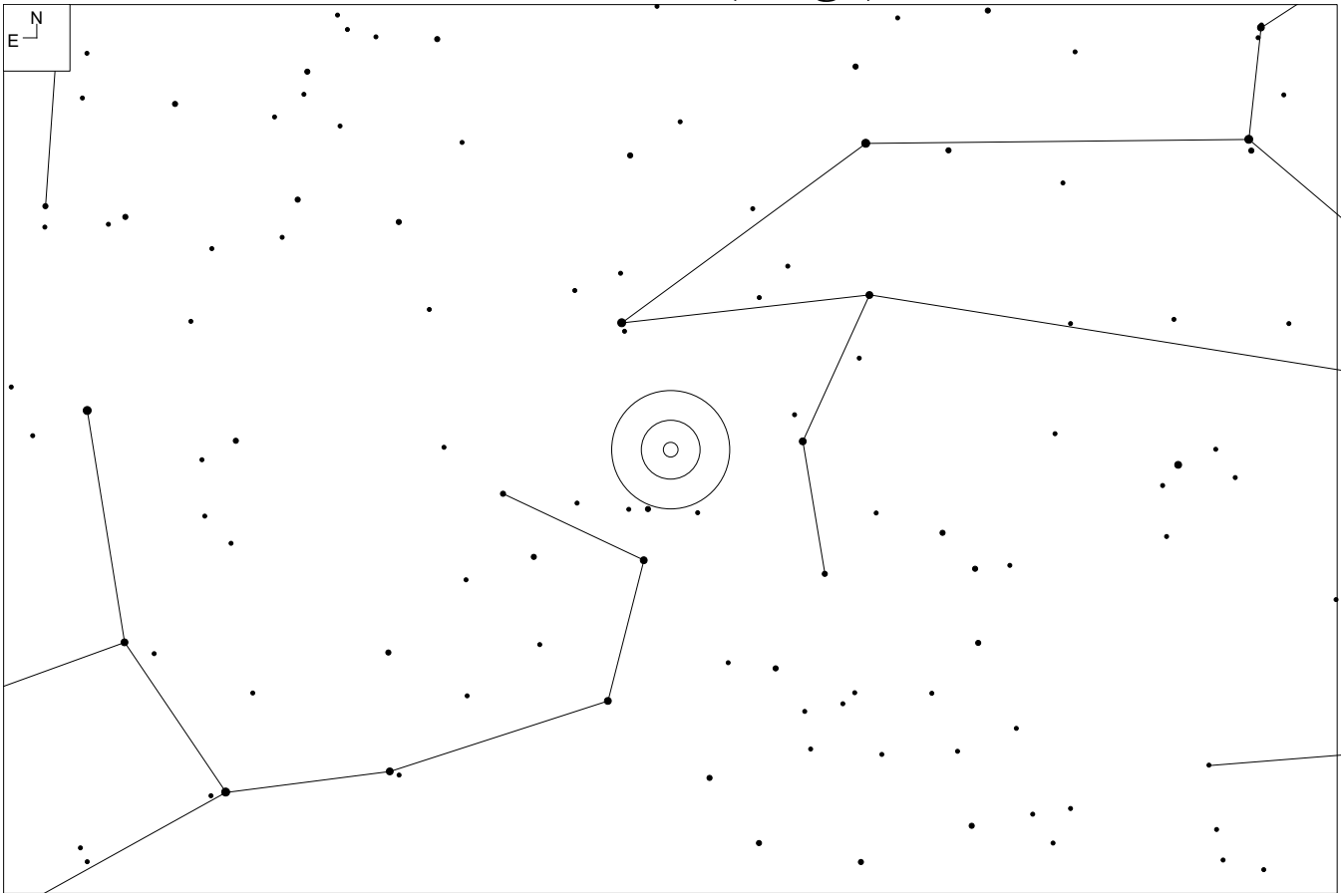
MCG-1-30-3 (Crater)



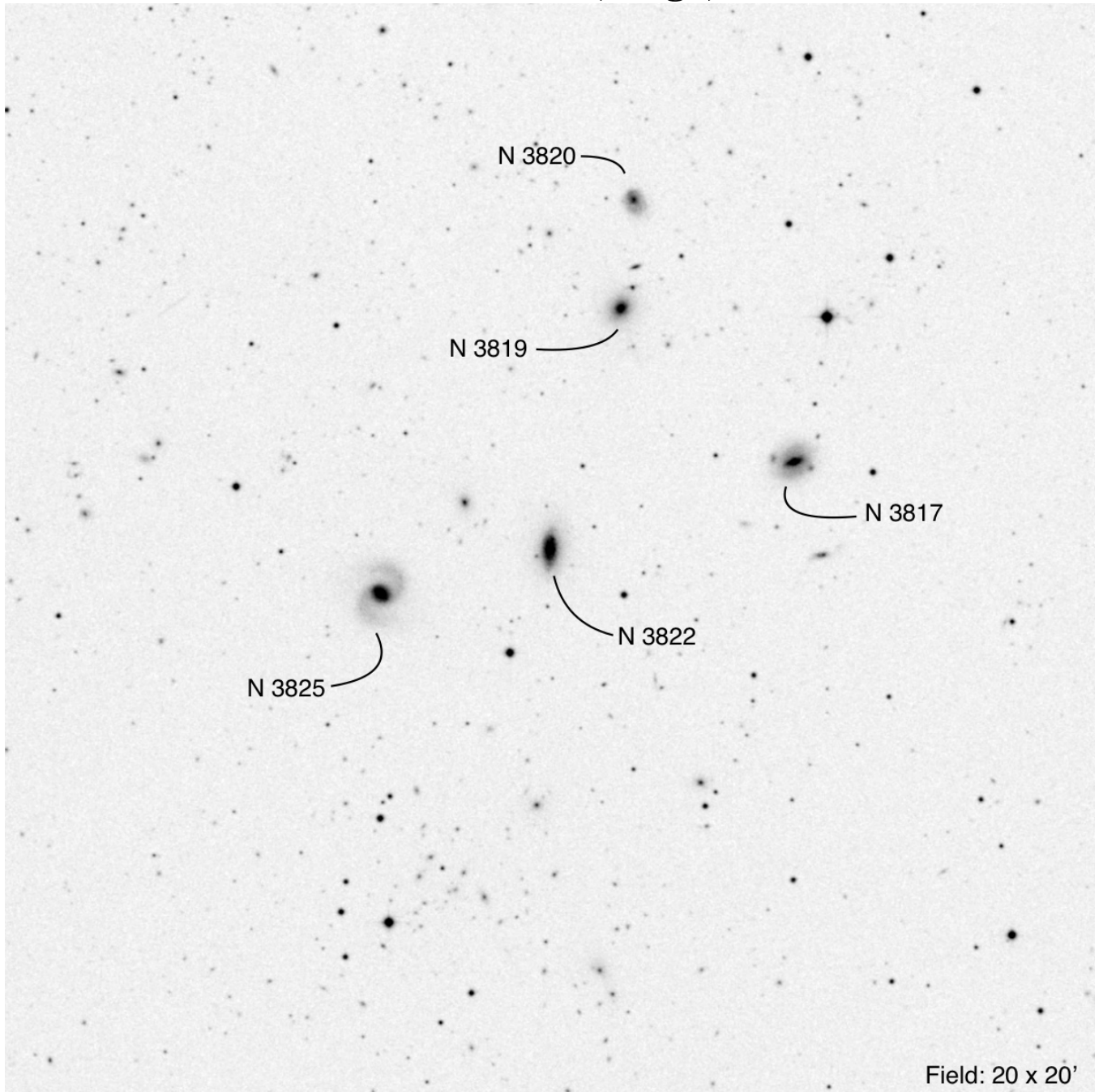
RA	Dec	Mag ₁	# of galaxies	iDSA
11 34 16.9	-09 34 33	14.1	10	70

Note: MCG-1-30-3 = NGC 3730

NGC 3822 (Virgo)

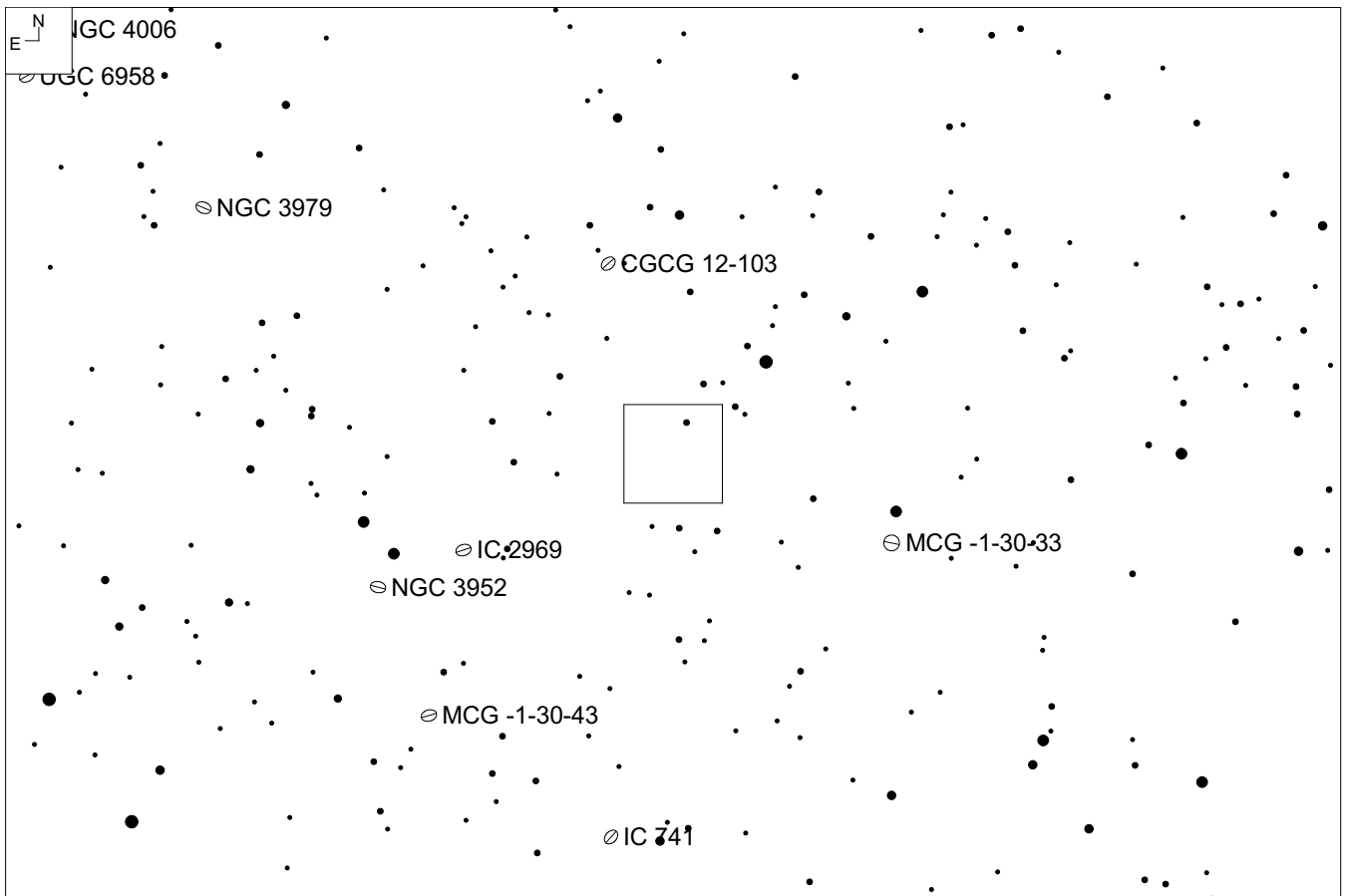
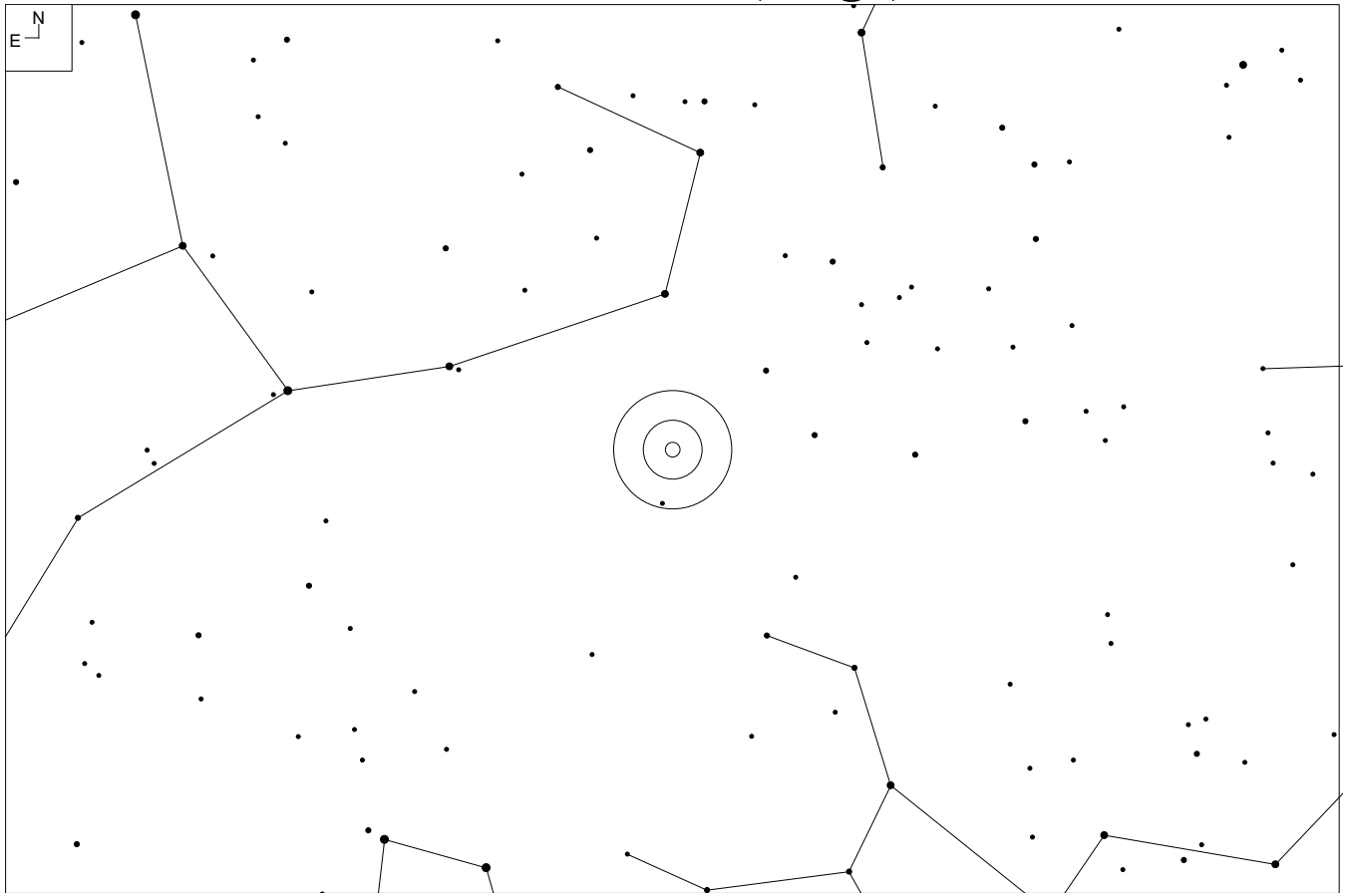


NGC 3822 (Virgo)

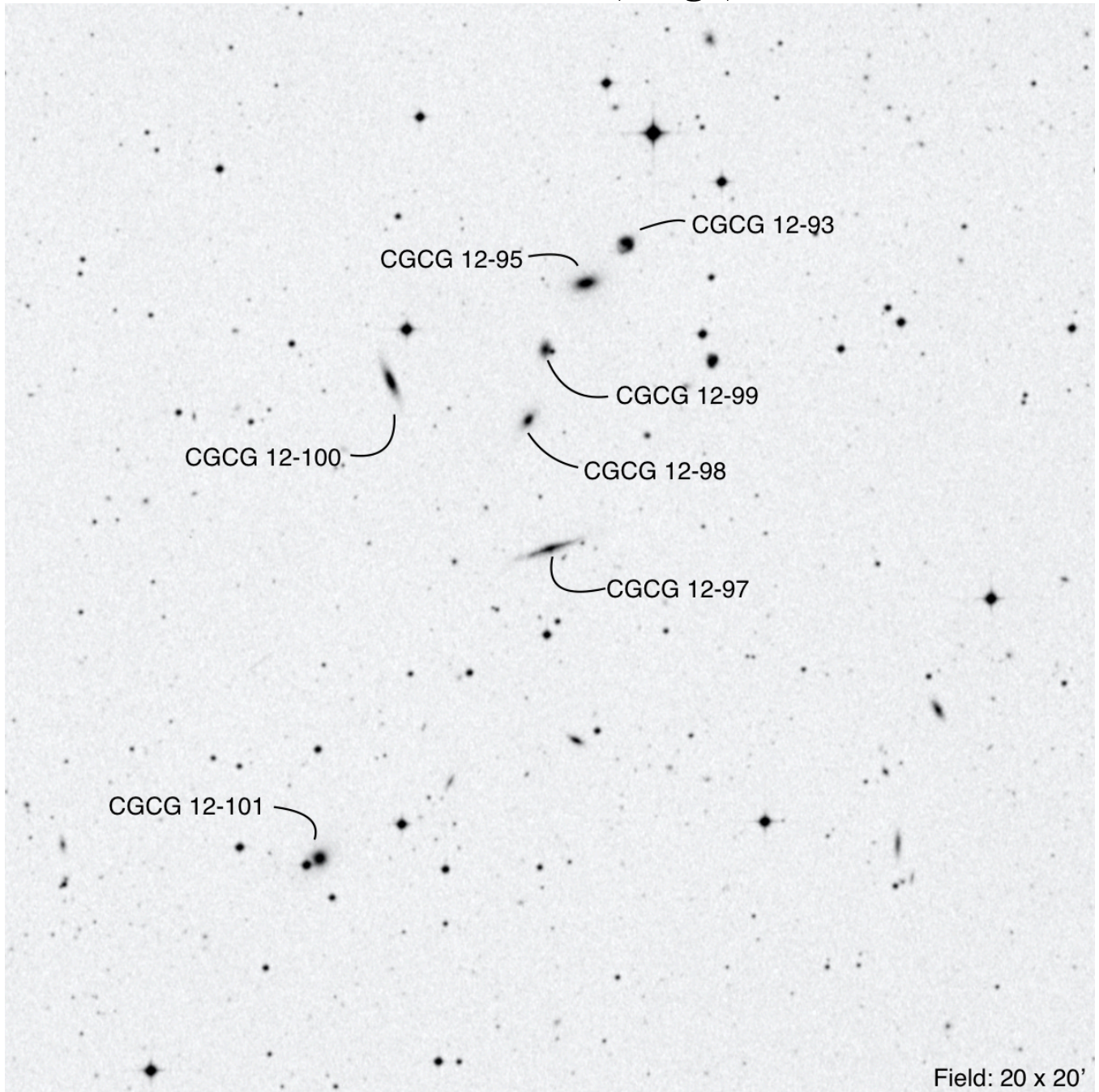


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 10 Hickson 58	11 42 11.2	+10 16 40	14.1	5	46

CGCG 12-99 (Virgo)

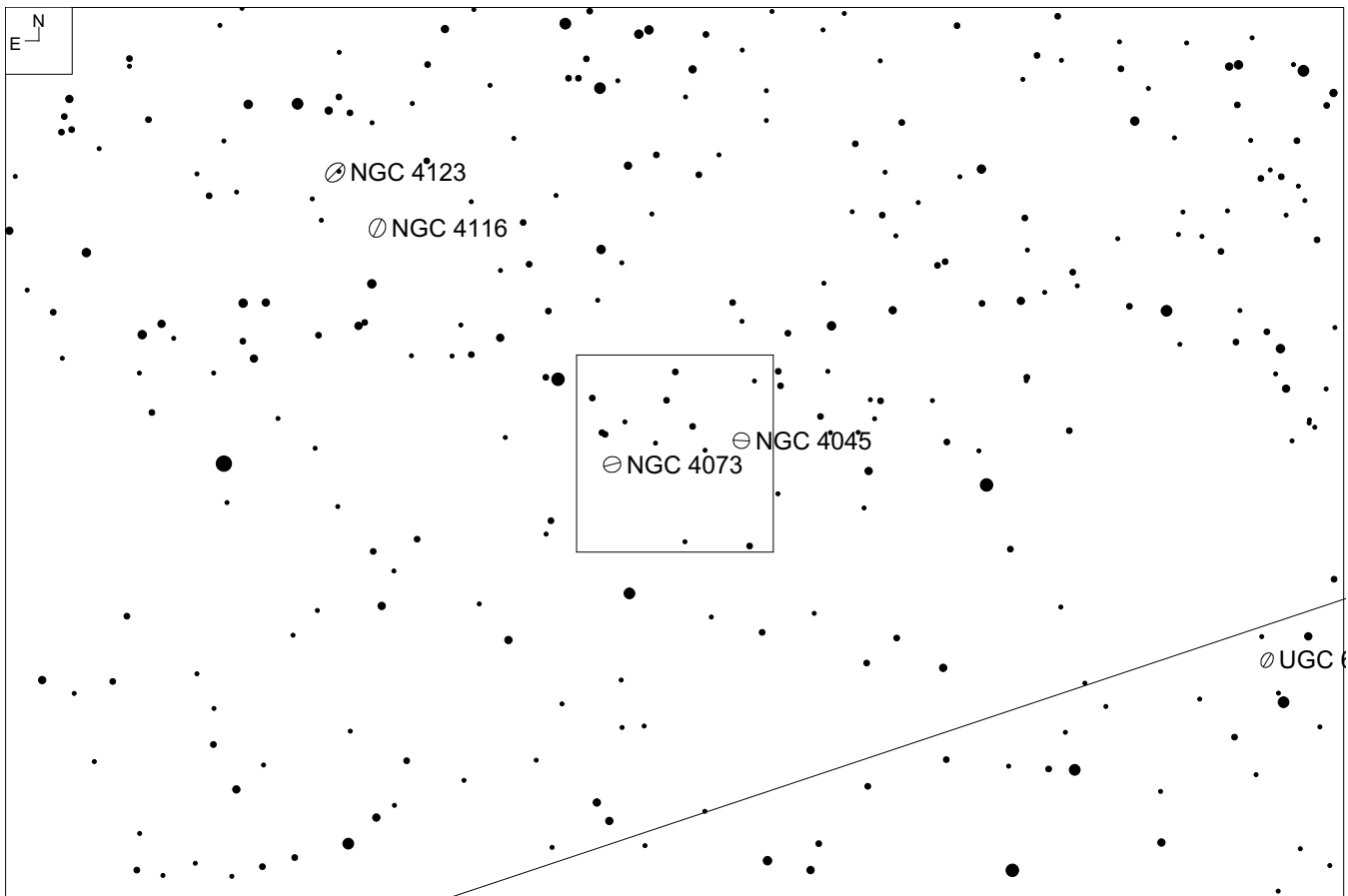
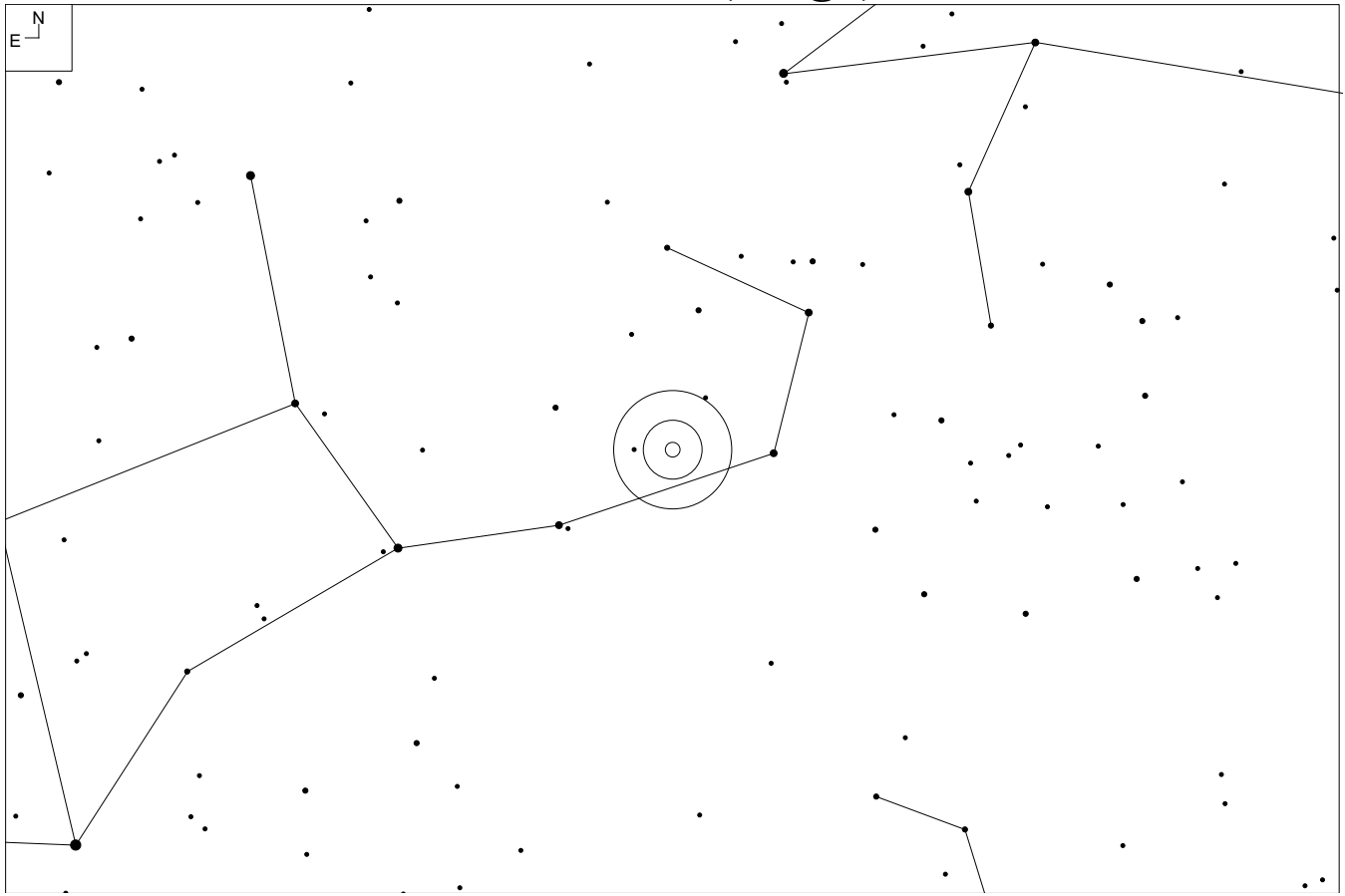


CGCG 12-99 (Virgo)

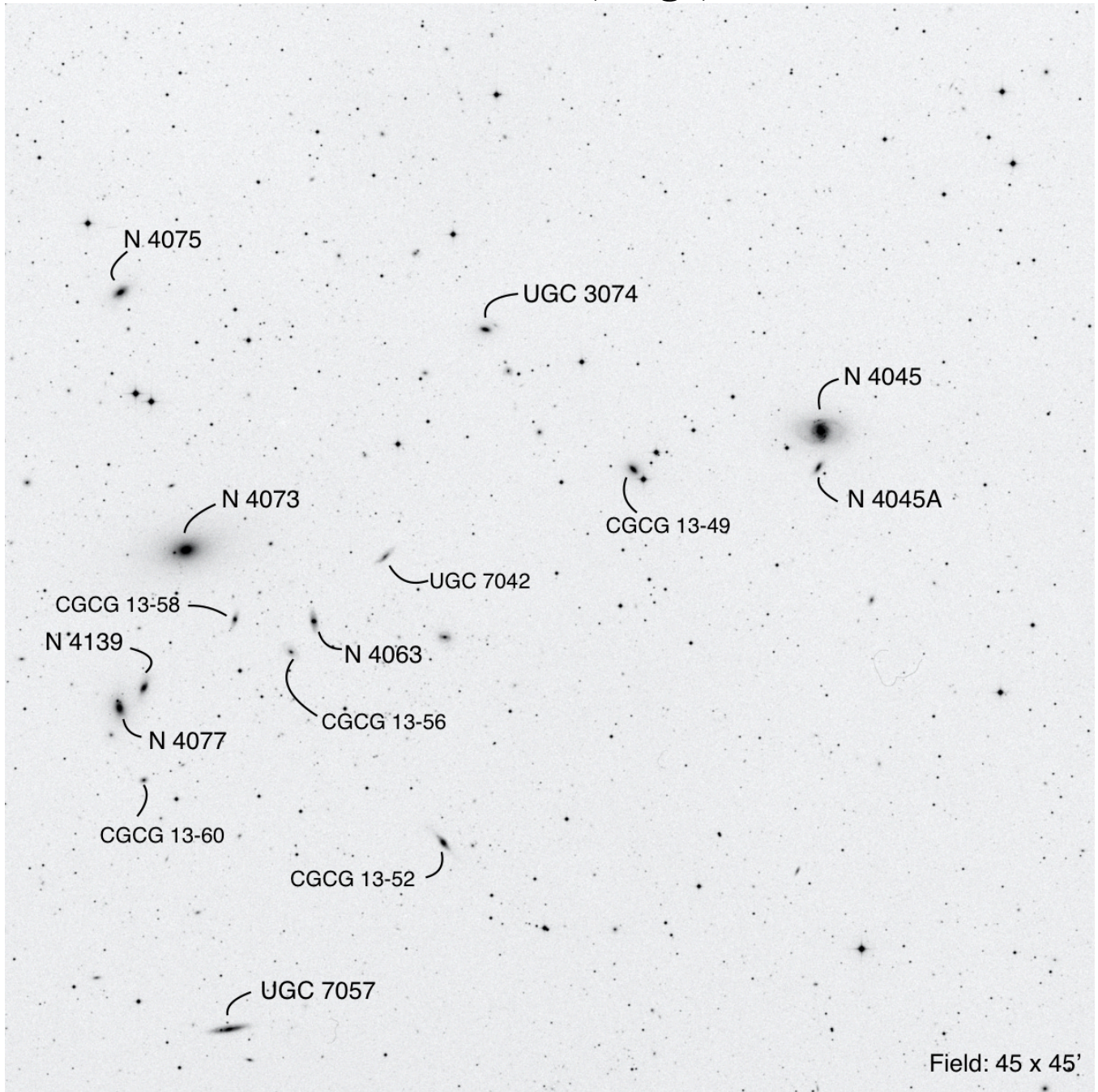


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 3	11 49 41.0	-03 30 34	14.2	7	58

NGC 4073 (Virgo)

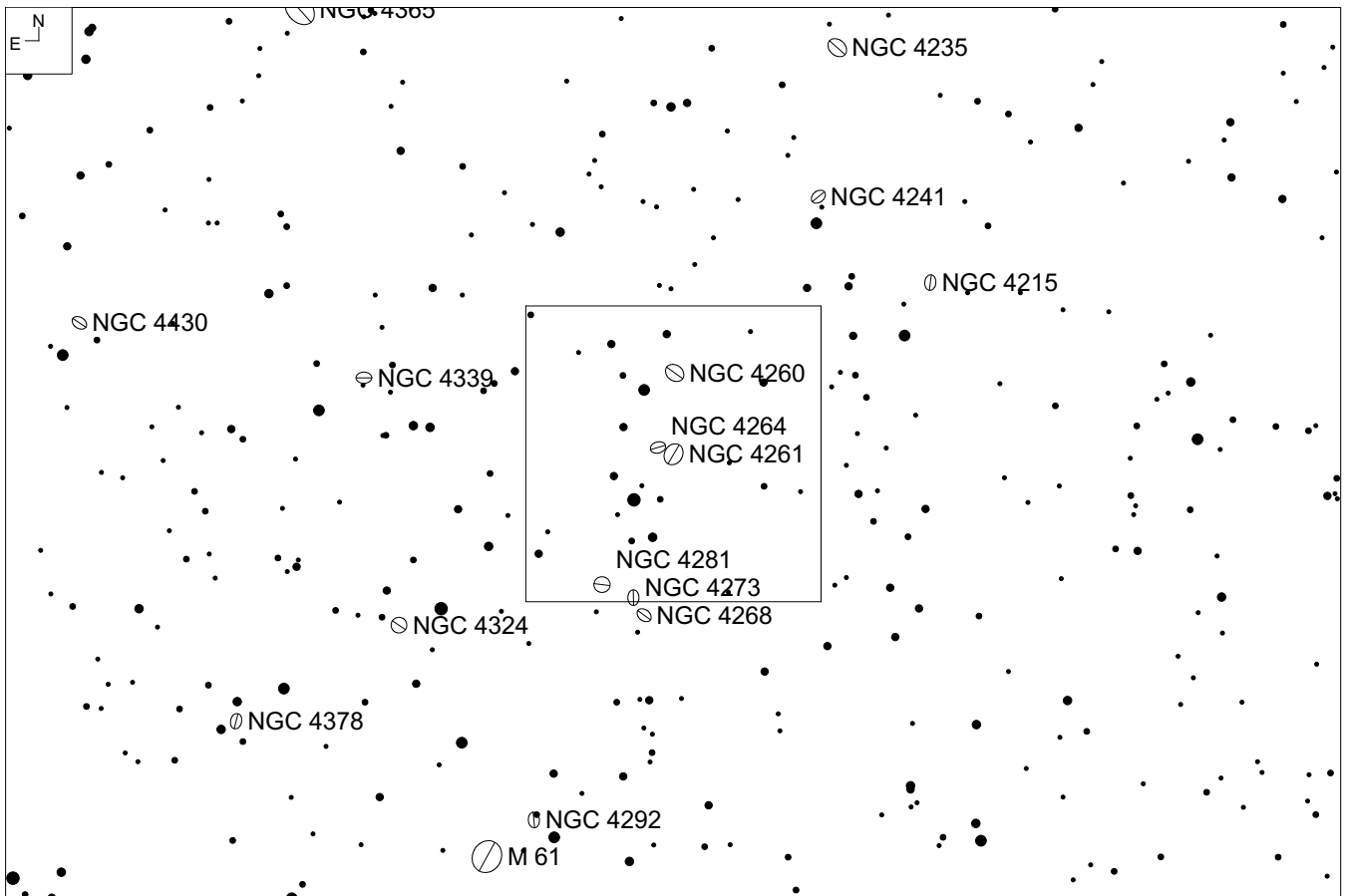
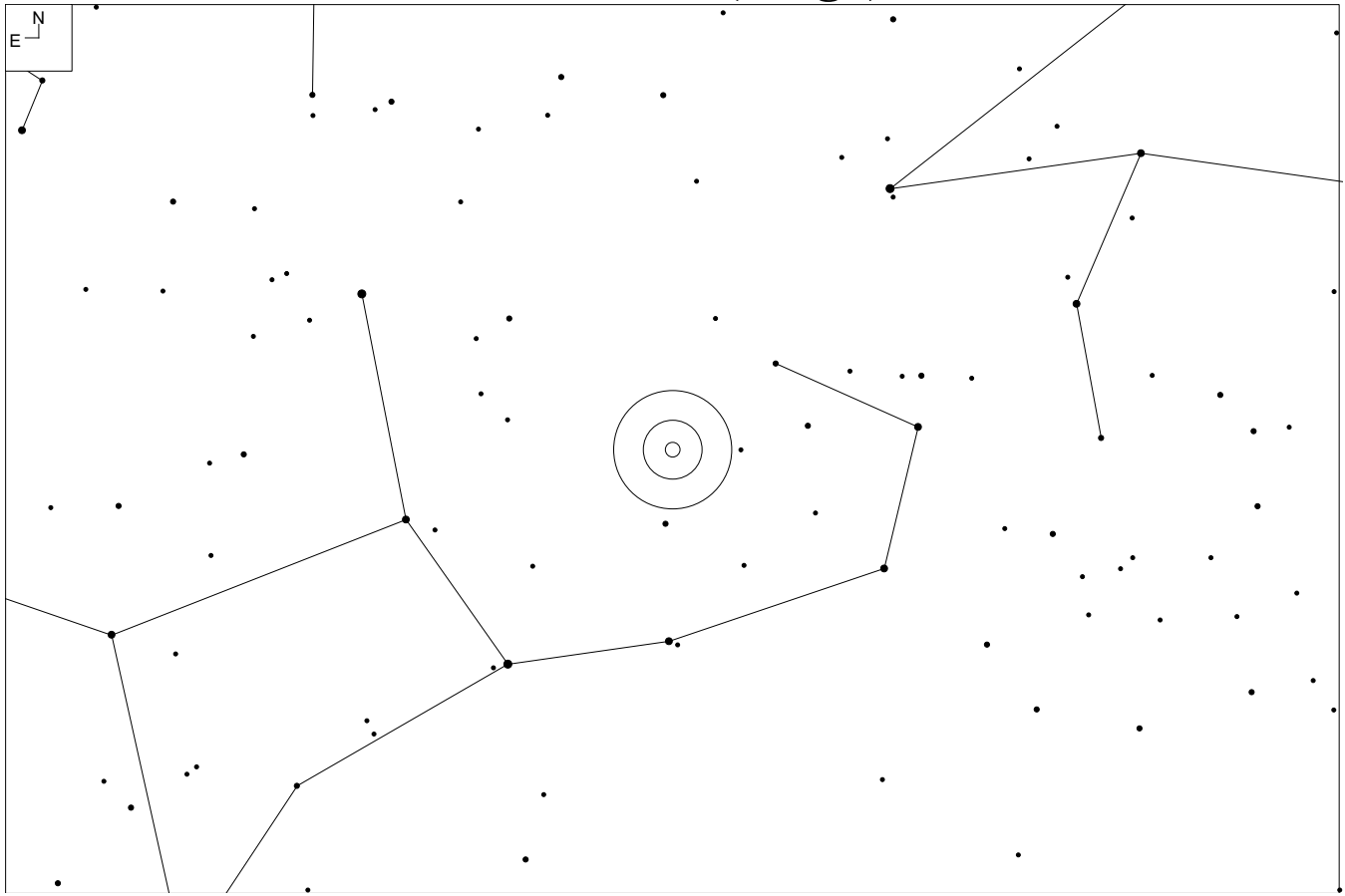


NGC 4073 (Virgo)

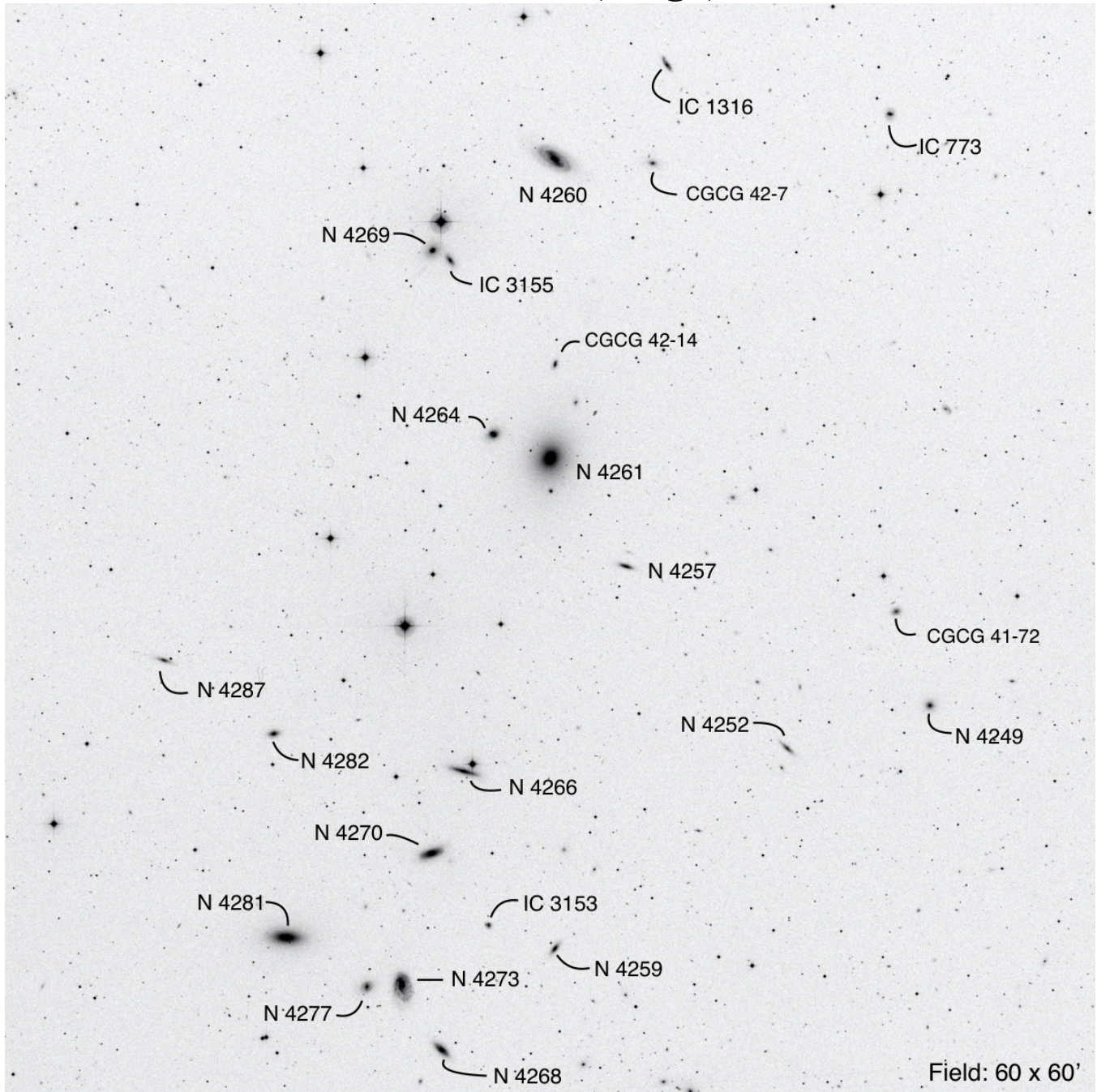


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 4	12 04 27.1	+01 53 45	11.1	15	57

NGC 4261 (Virgo)

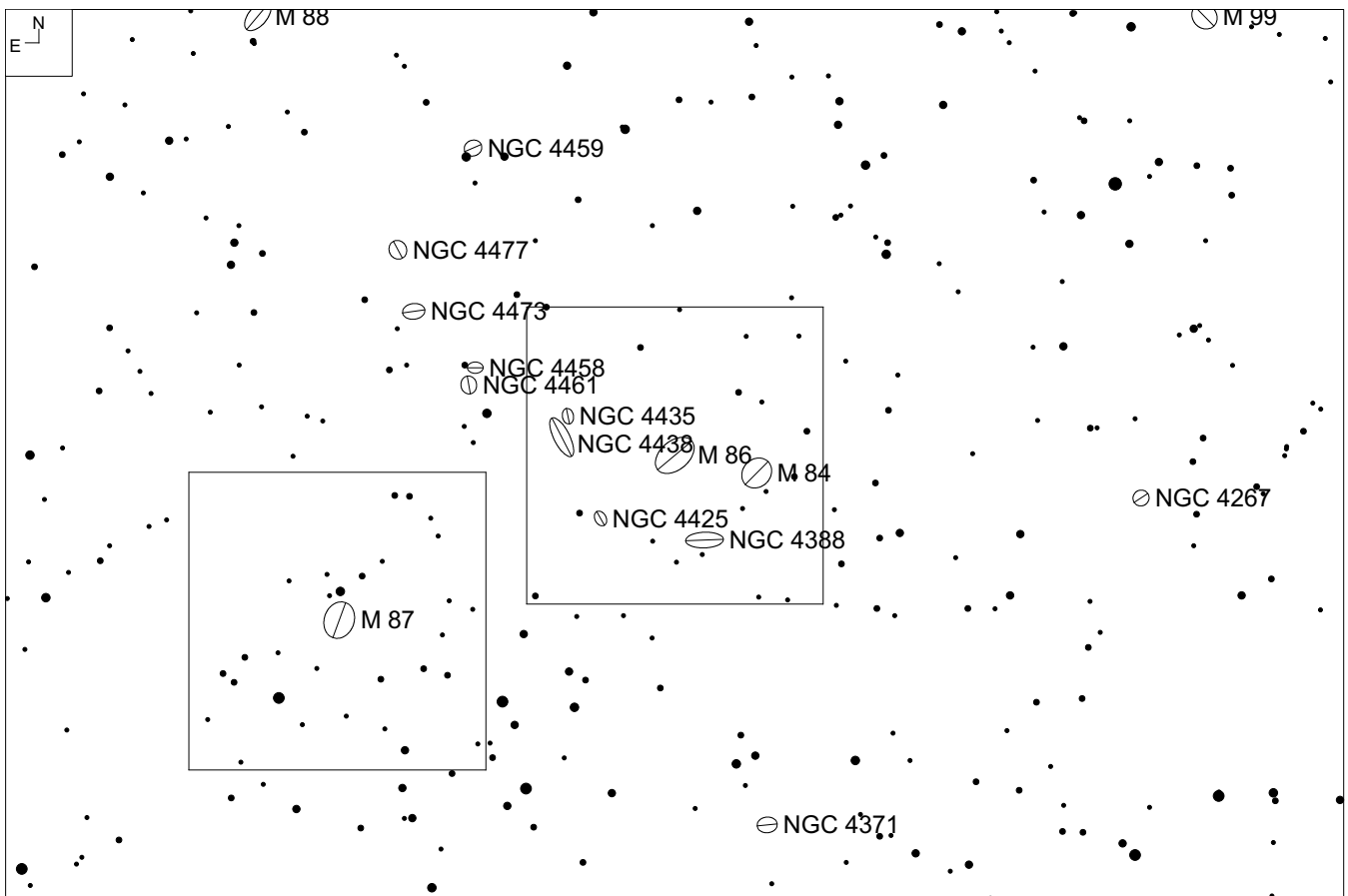
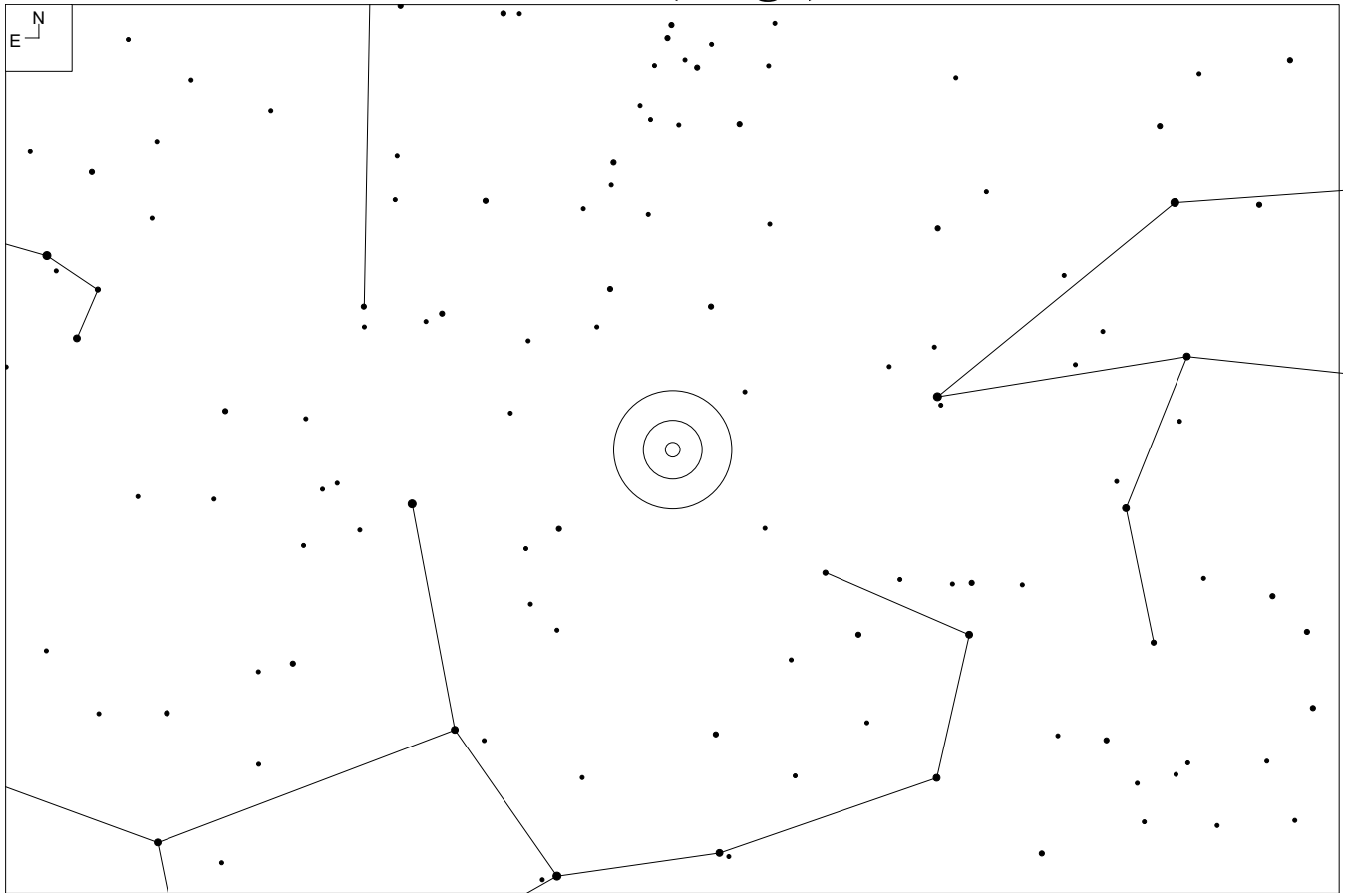


NGC 4261 (Virgo)

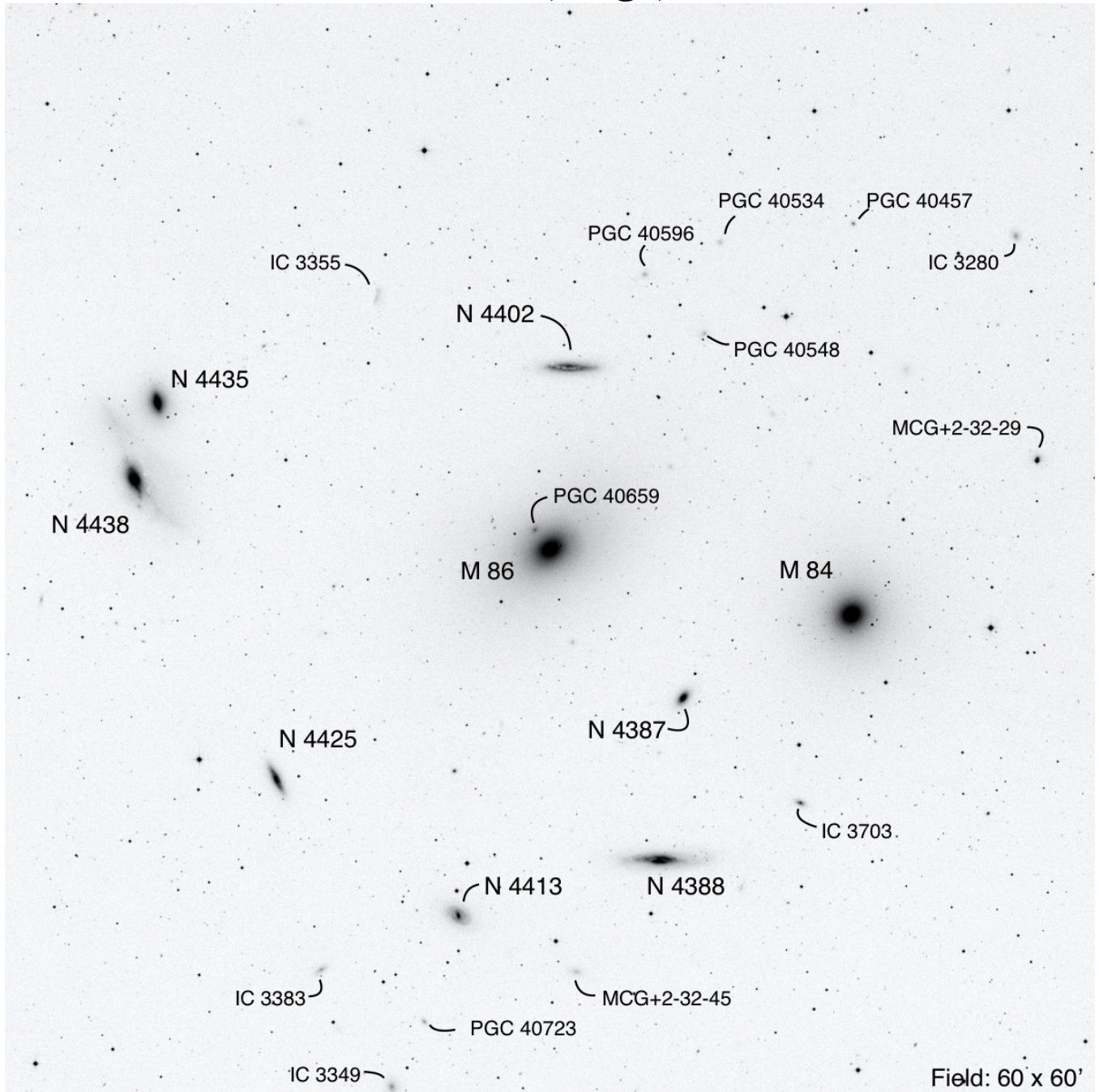


RA	Dec	Mag ₁	# of galaxies	iDSA
12 19 23.2	+05 49 29	10.4	23	45, 57 D3

M 86 (Virgo)



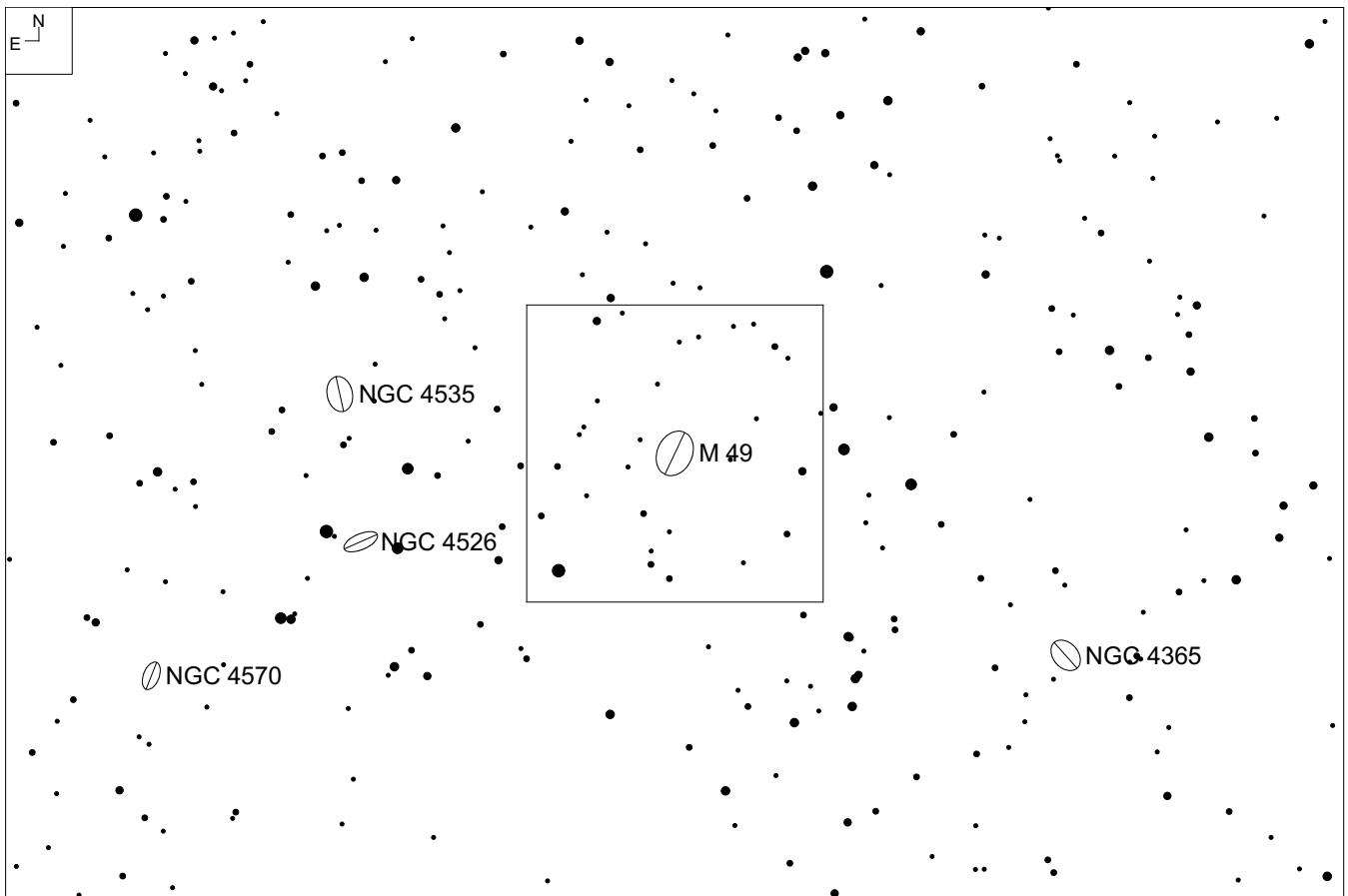
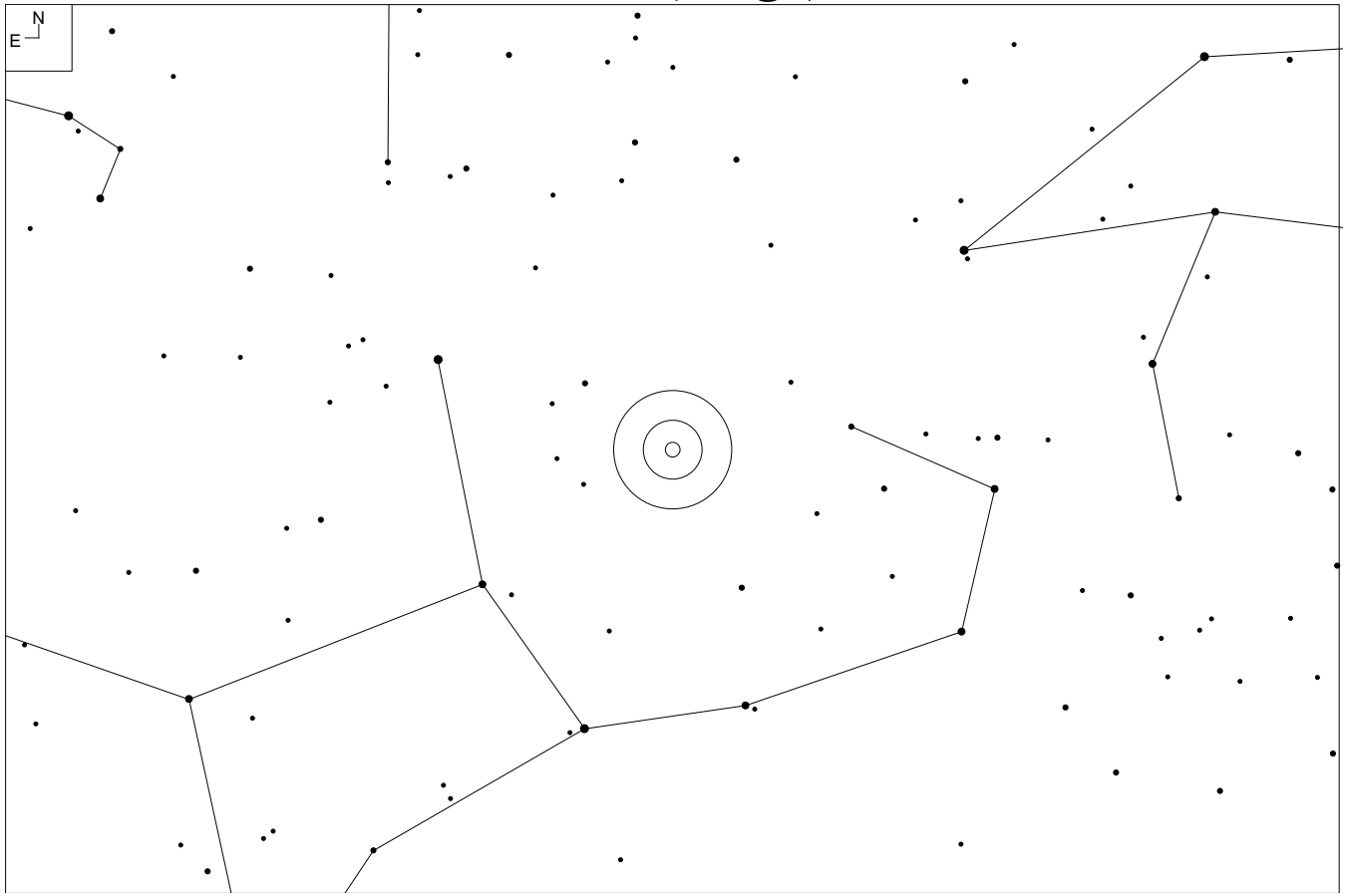
M 86 (Virgo)



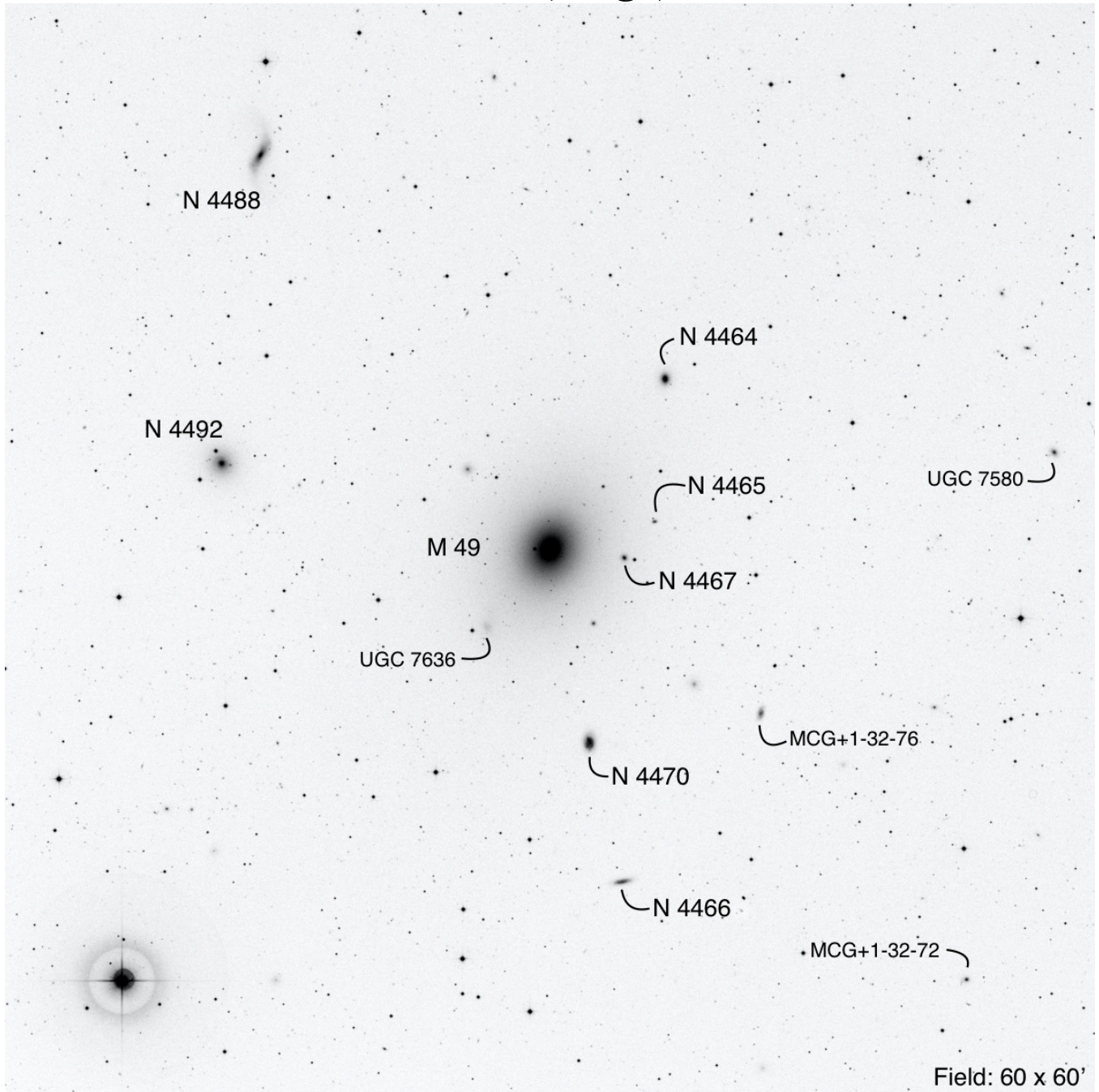
Center of Virgo Supercluster

RA	Dec	Mag ₁	# of galaxies	iDSA
12 26 11.8	+12 56 49	8.9	22	45, D2

M 49 (Virgo)

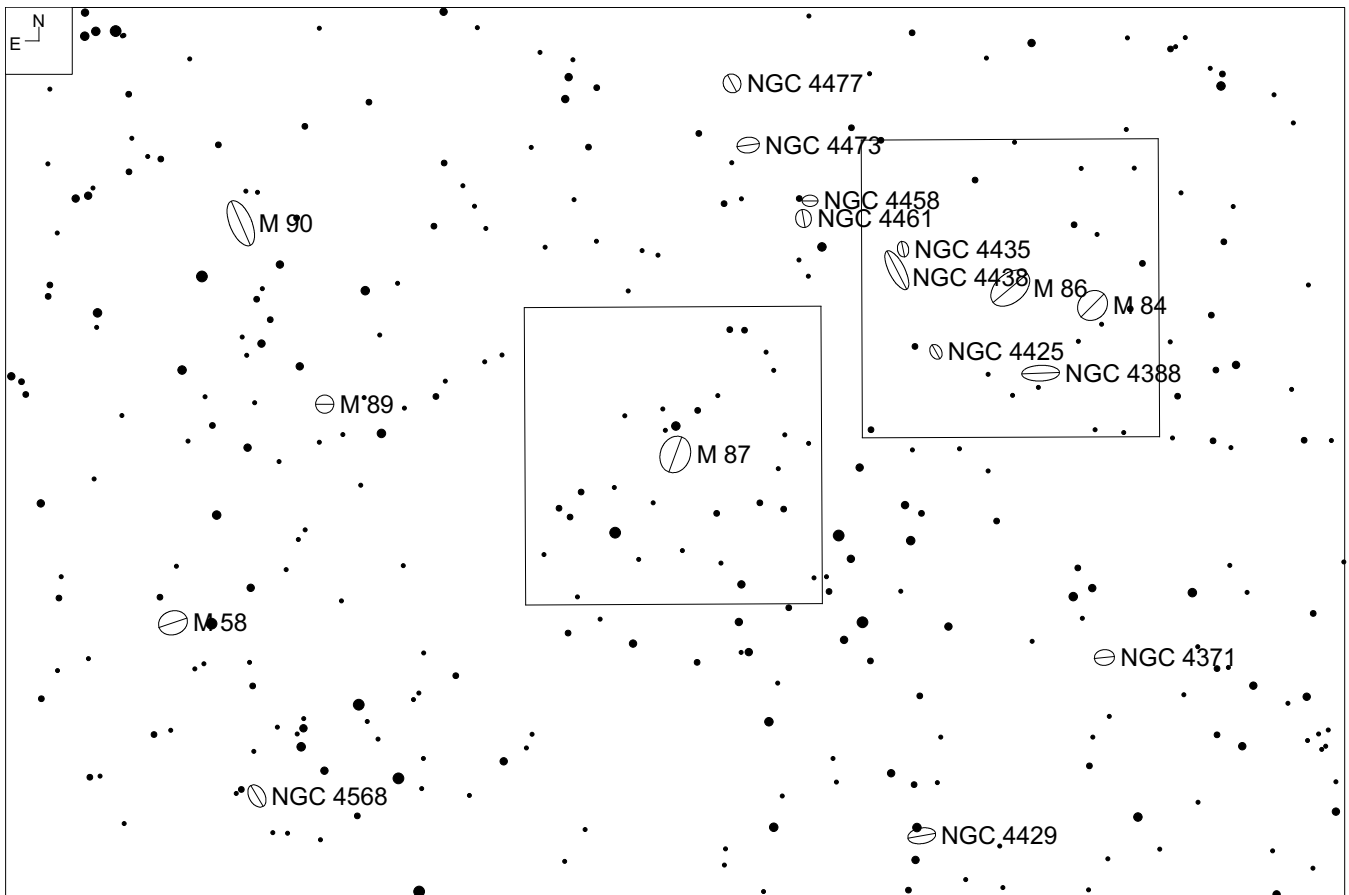
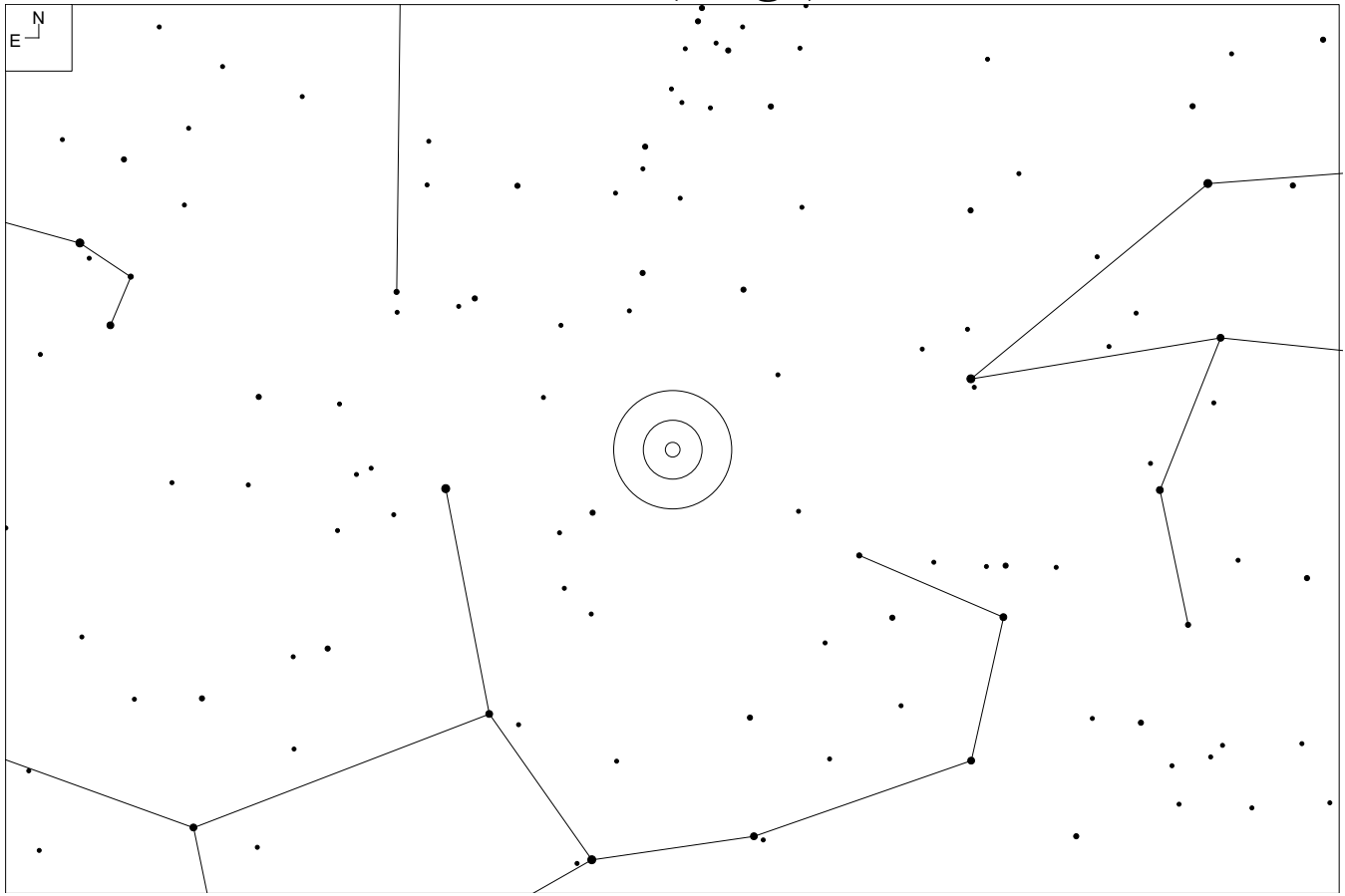


M 49 (Virgo)

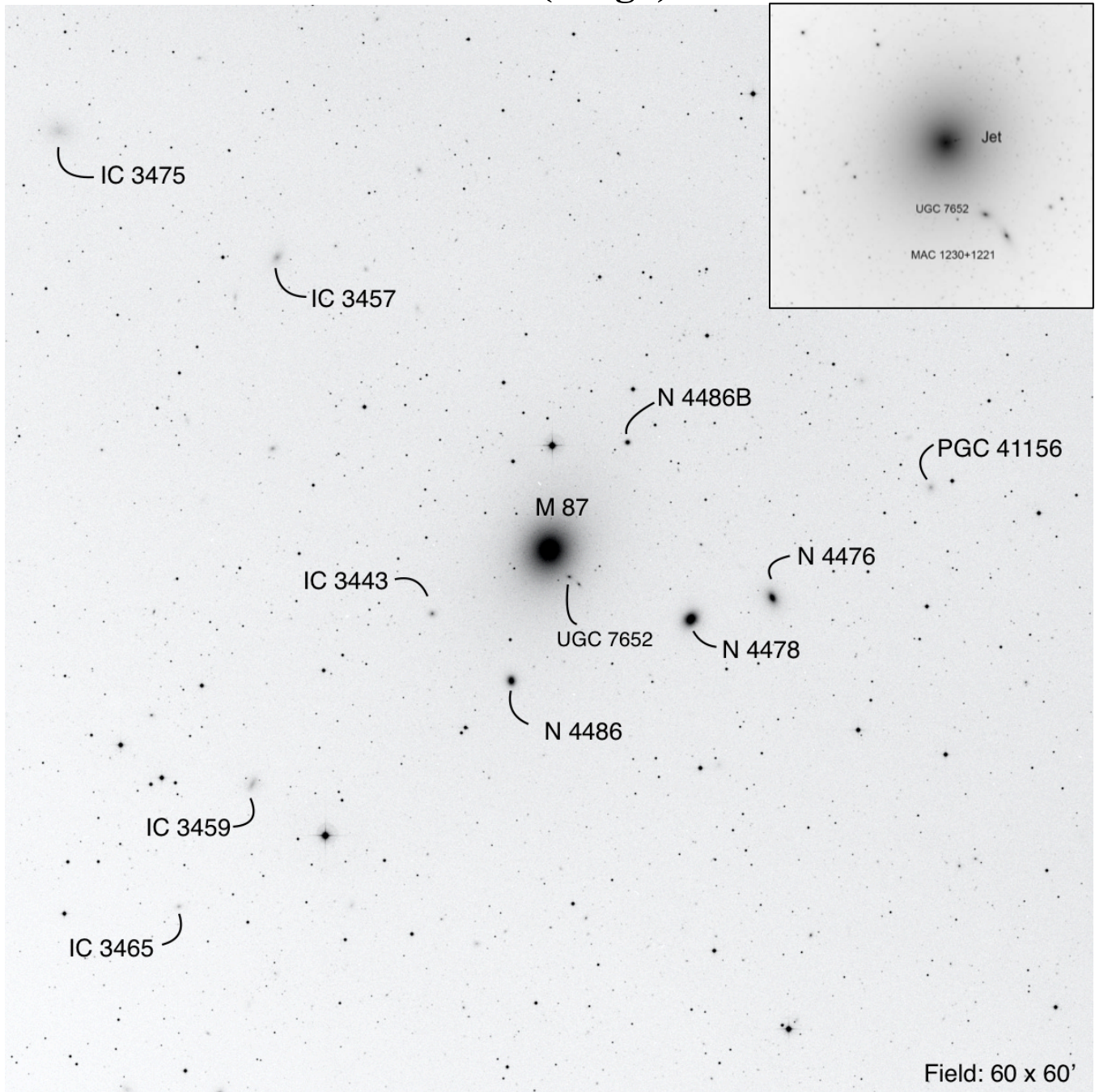


RA	Dec	Mag ₁	# of galaxies	iDSA
12 29 46.5	+07 59 58	8.4	12	45, 57, D3

M 87 (Virgo)



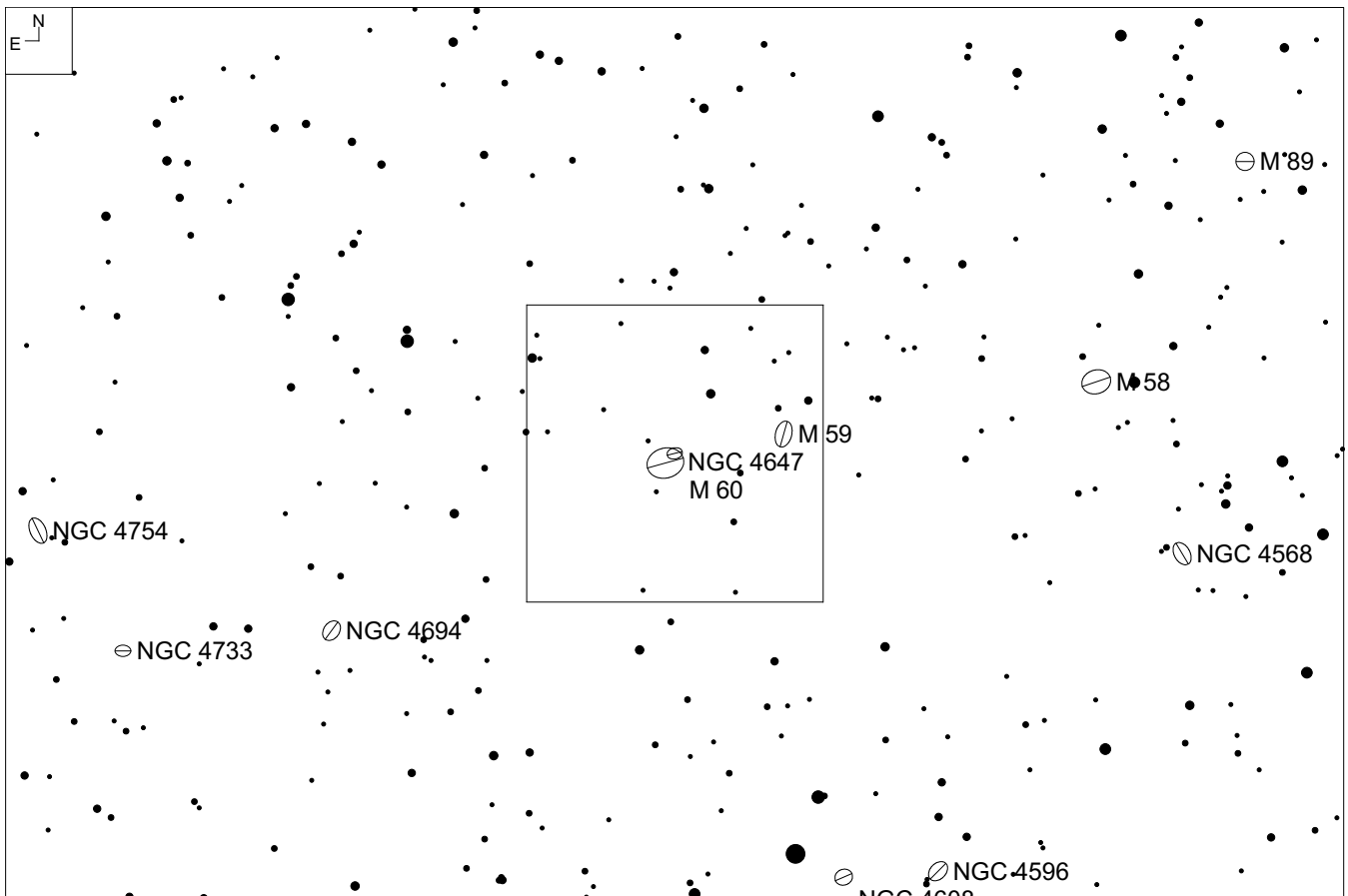
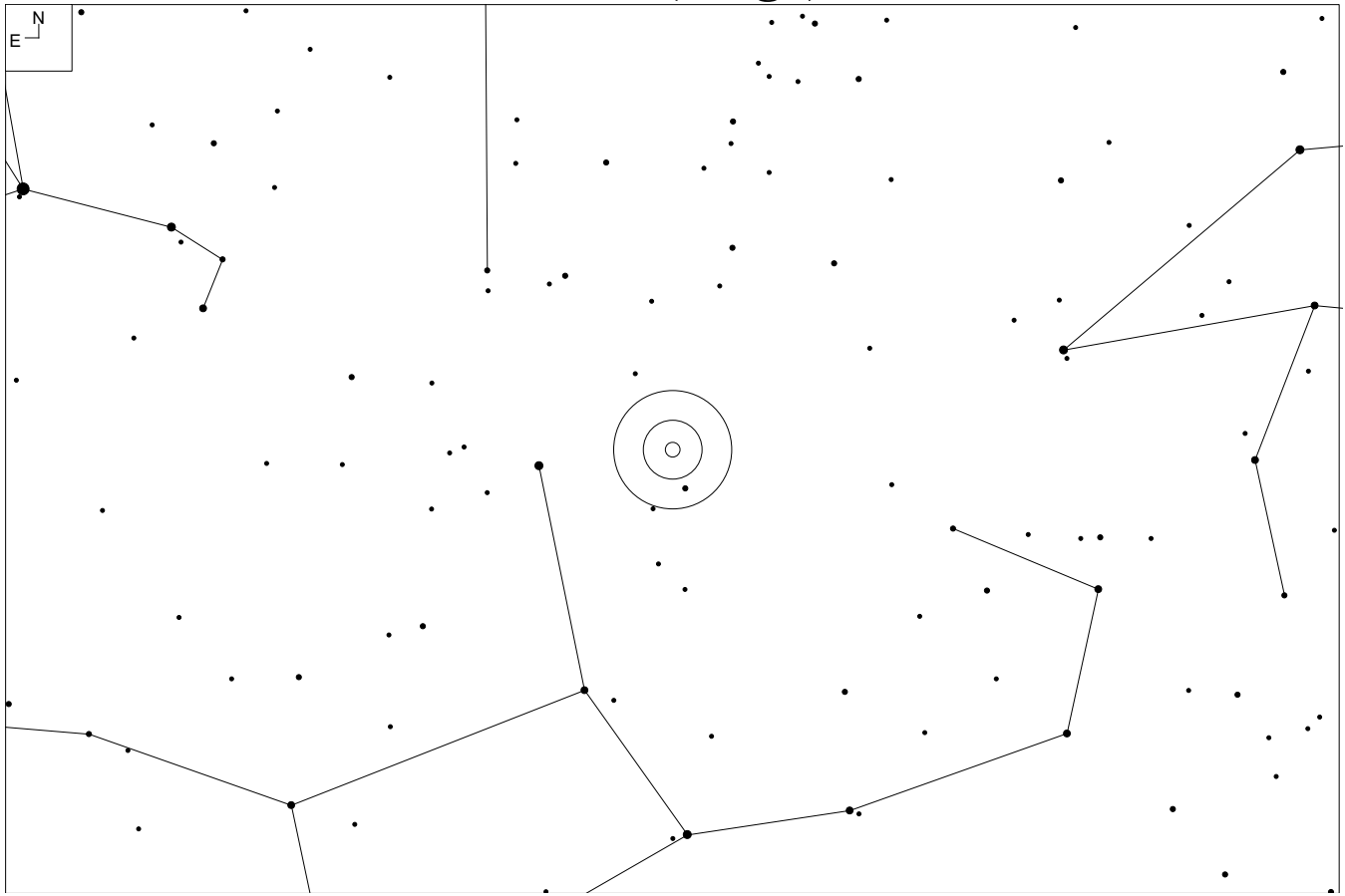
M 87 (Virgo)



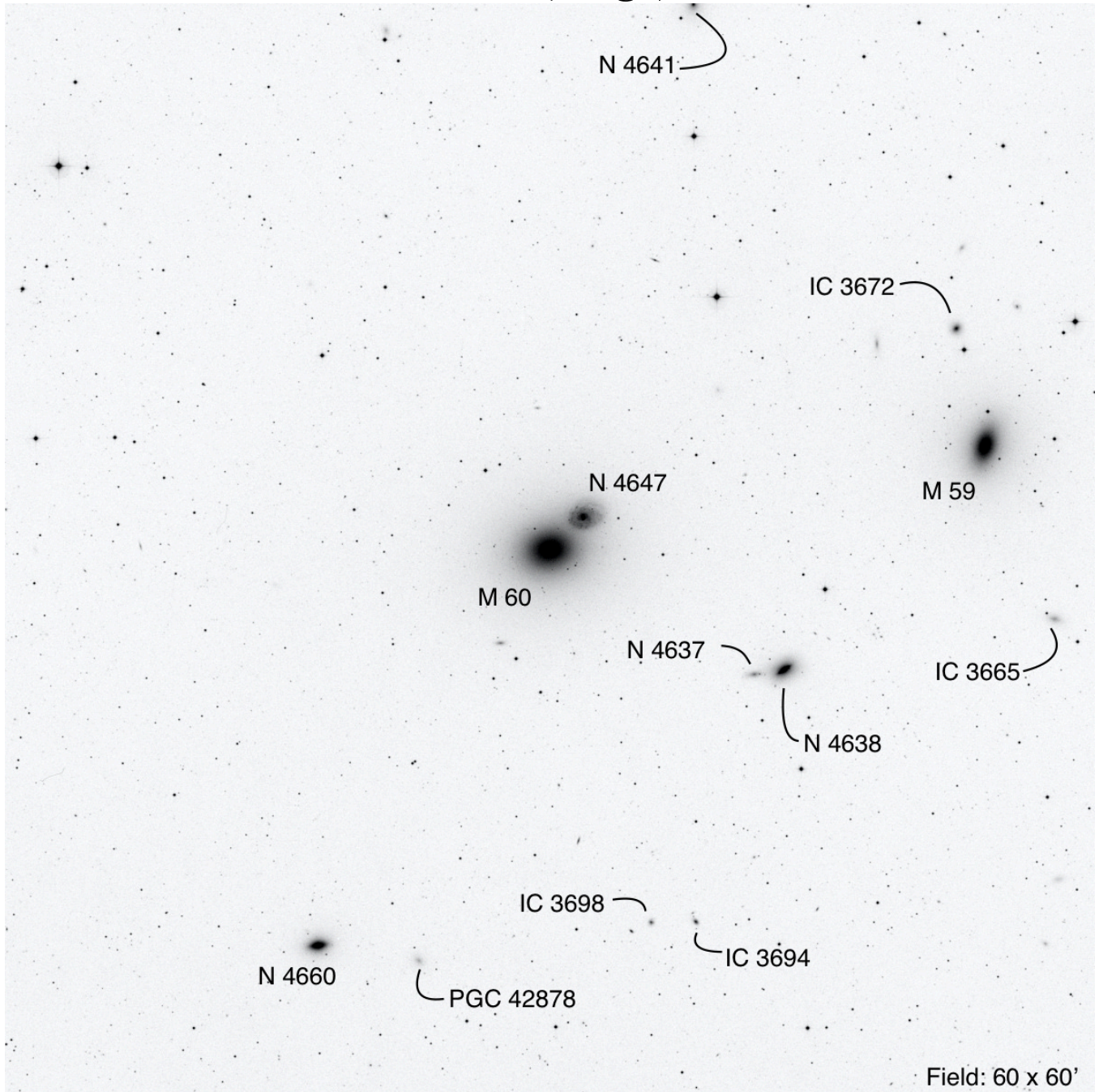
RA	Dec	Mag ₁	# of galaxies	iDSA
12 30 49.7	+12 23 24	8.6	12	45, D2

Challenge: Observe the jet of M87. It is at PA = 60. Note that the linear alignment of the two very faint galaxies at PA = 135 is often mistaken for the jet.

M 60 (Virgo)

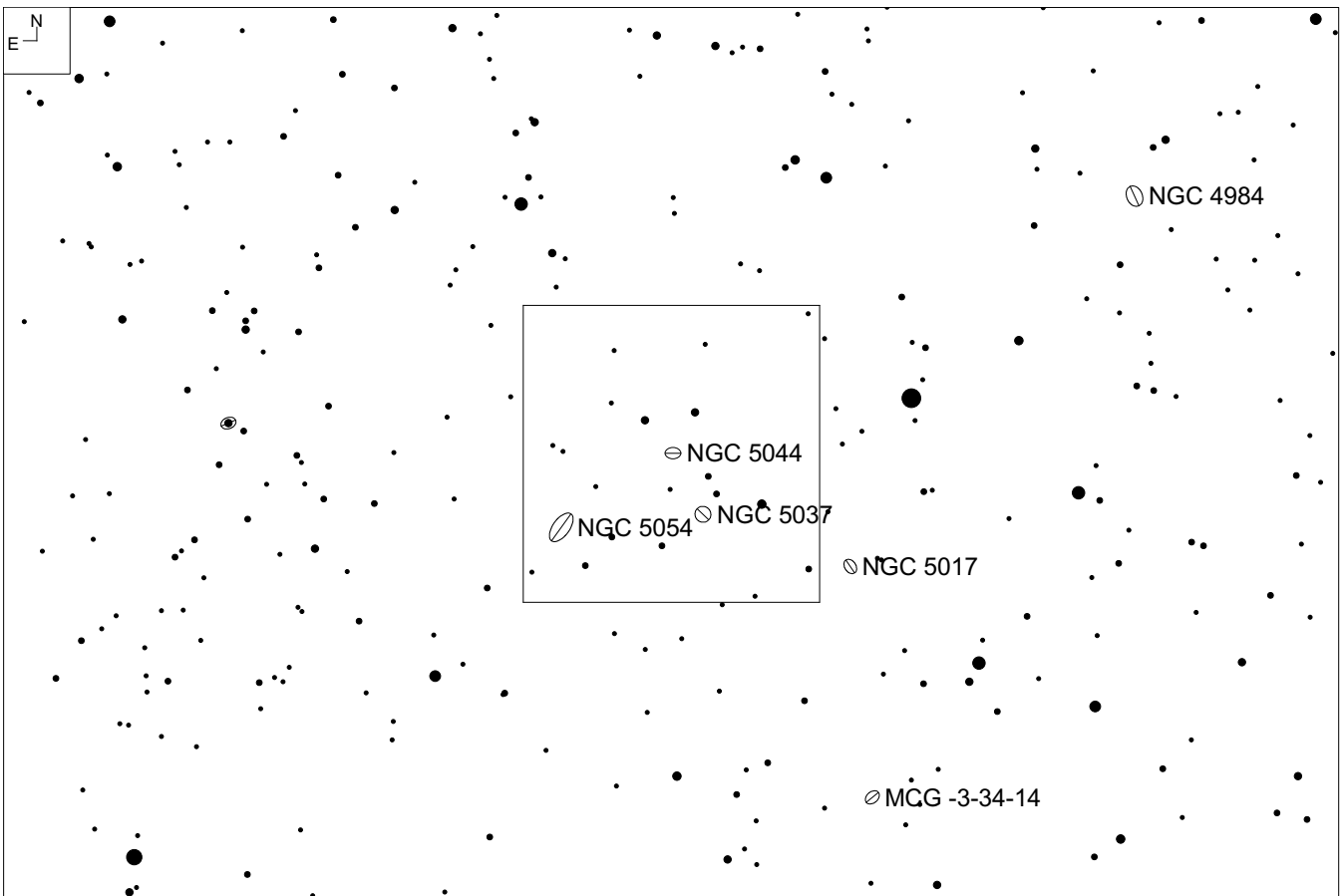
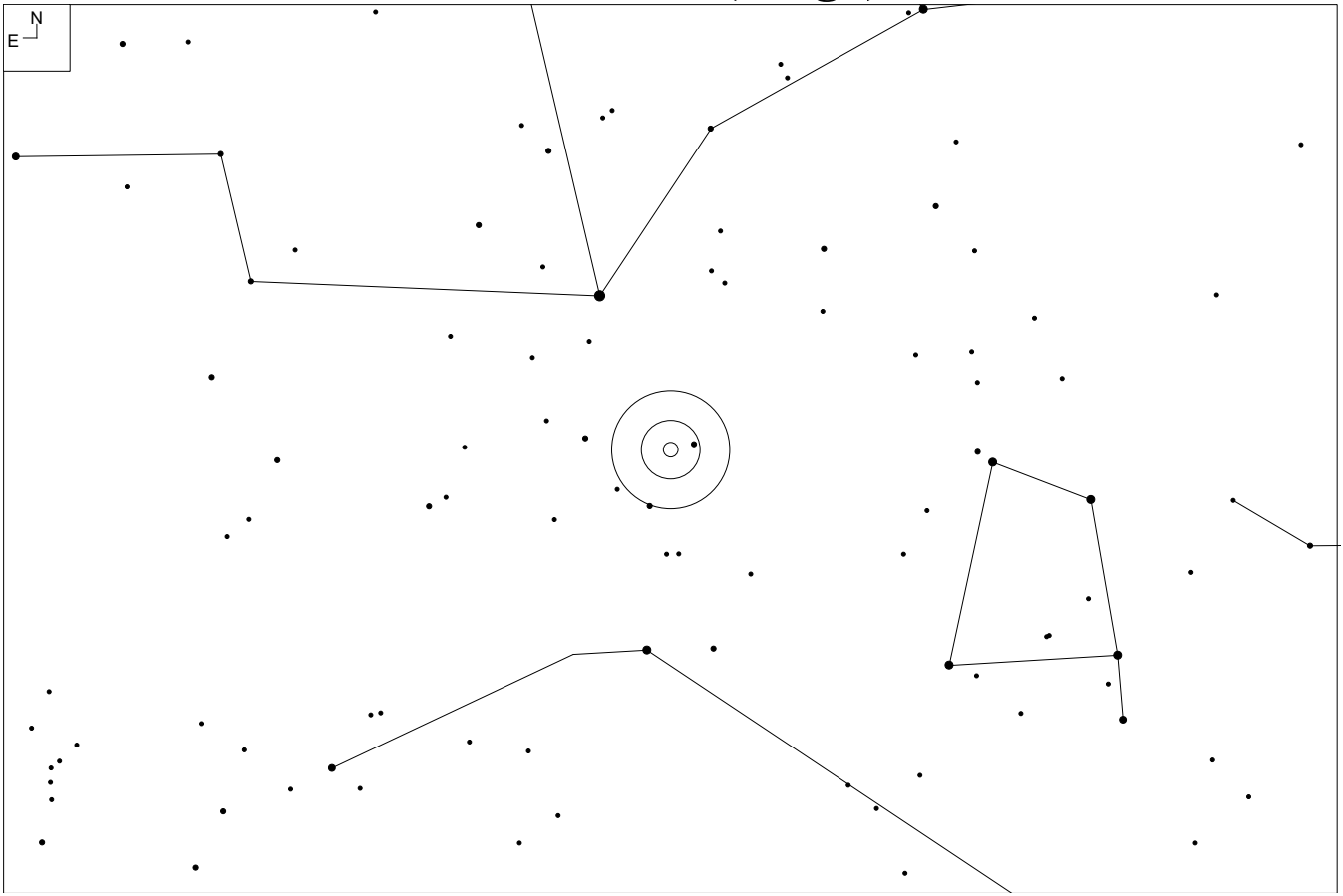


M 60 (Virgo)

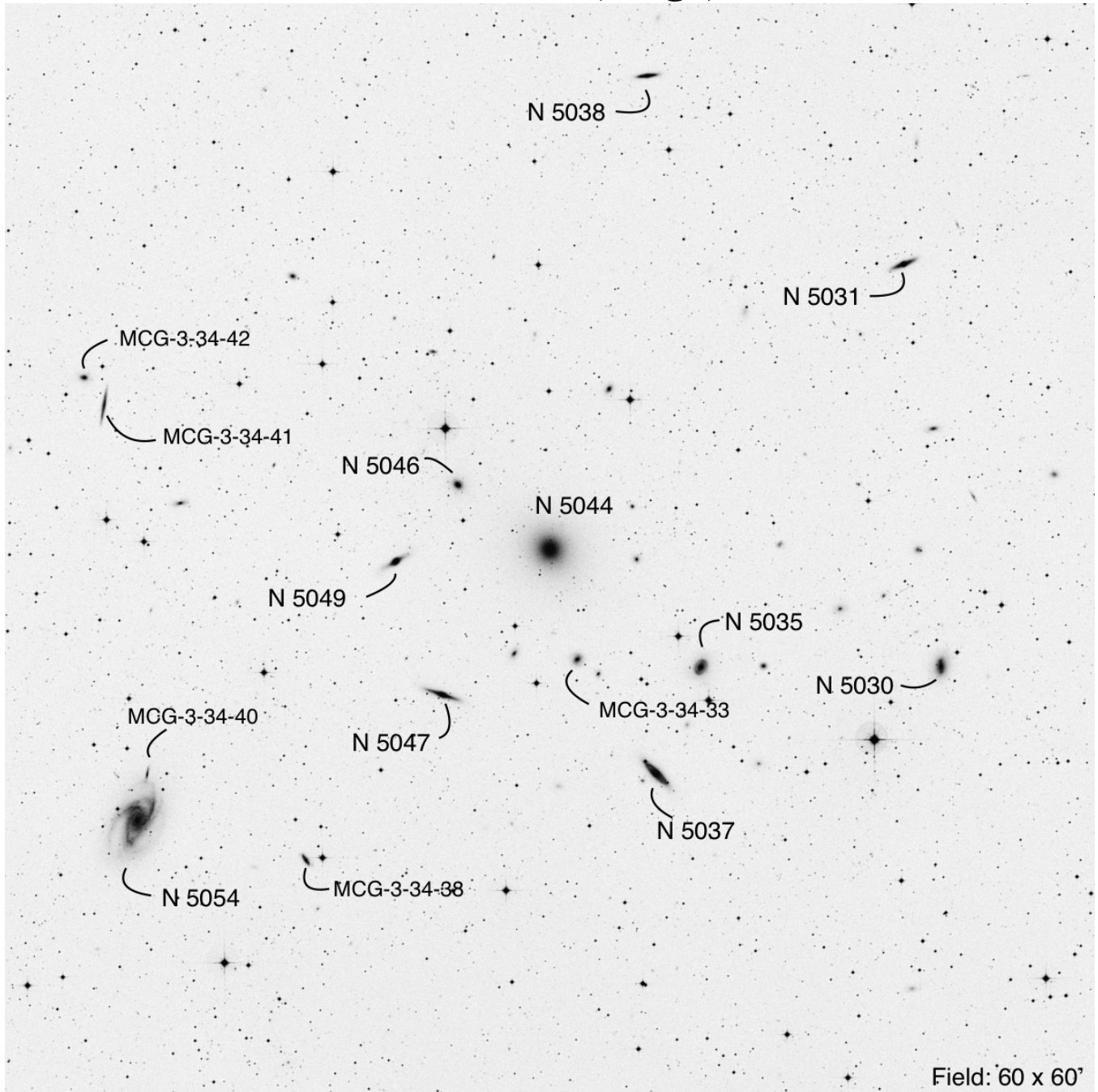


RA	Dec	Mag ₁	# of galaxies	iDSA
12 43 40.3	+11 32 58	8.8	12	45

NGC 5044 (Virgo)

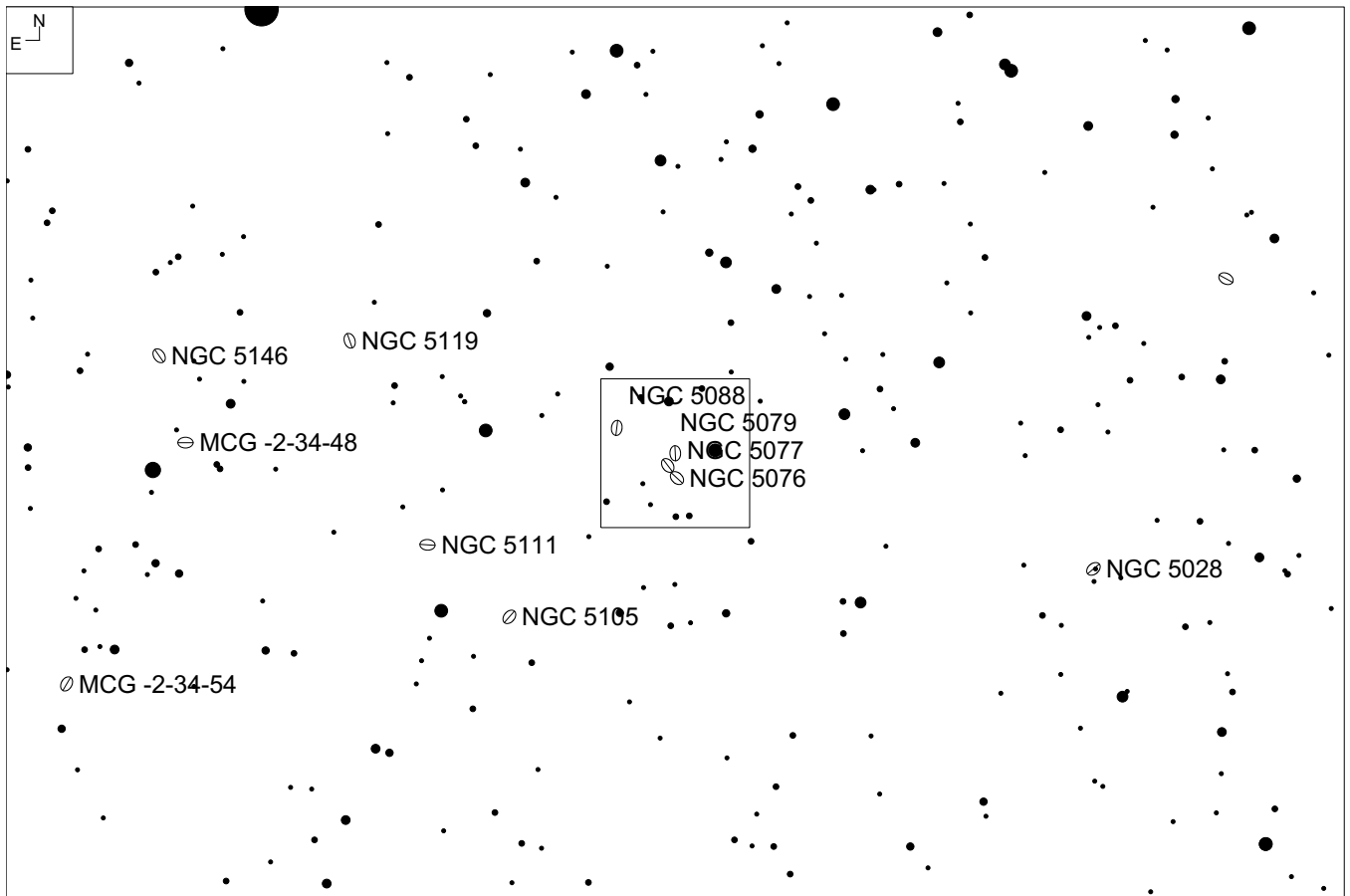
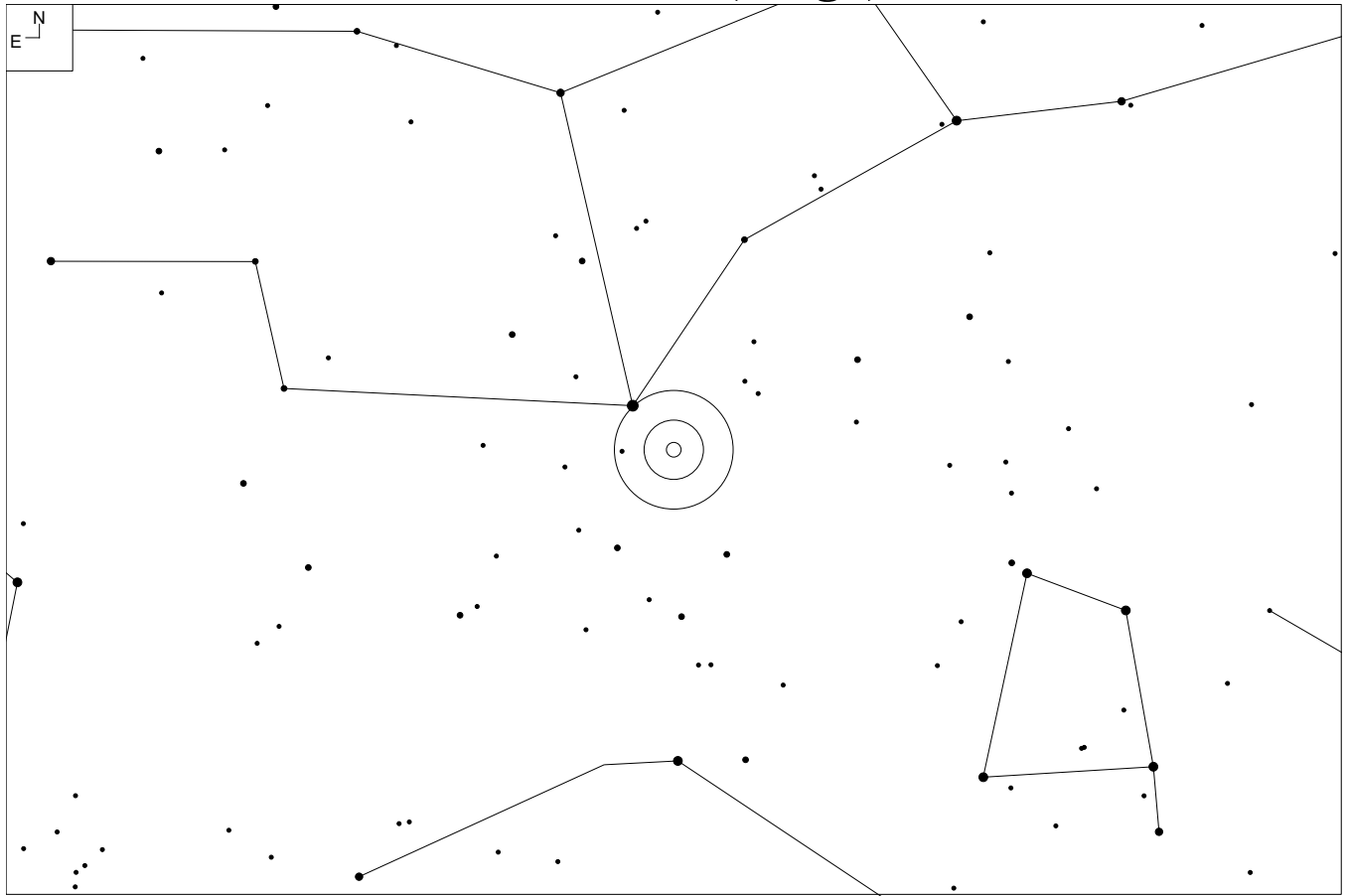


NGC 5044 (Virgo)

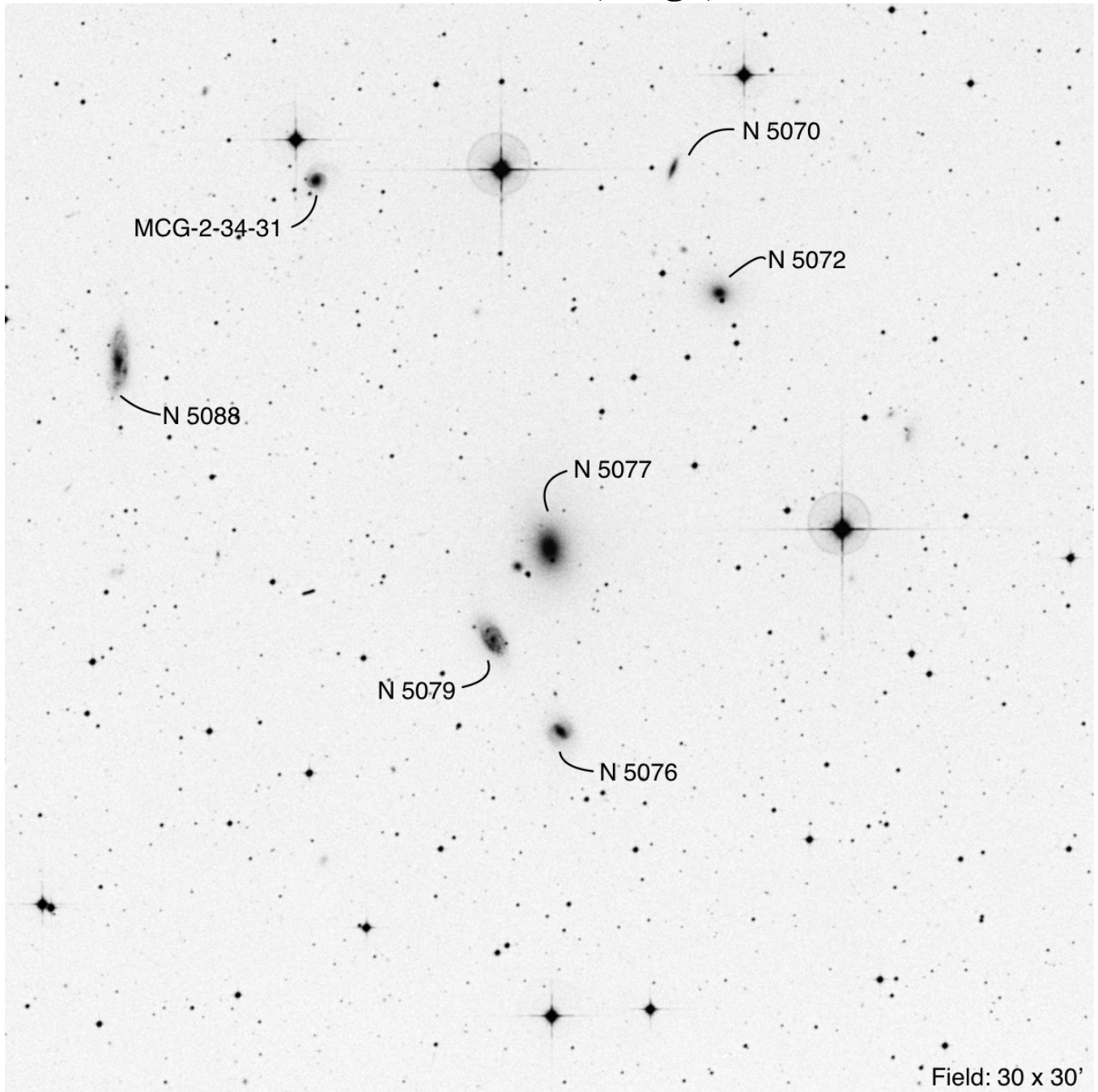


RA	Dec	Mag ₁	# of galaxies	iDSA
13 15 24.0	-16 23 09	10.8	15	69, D12

NGC 5077 (Virgo)

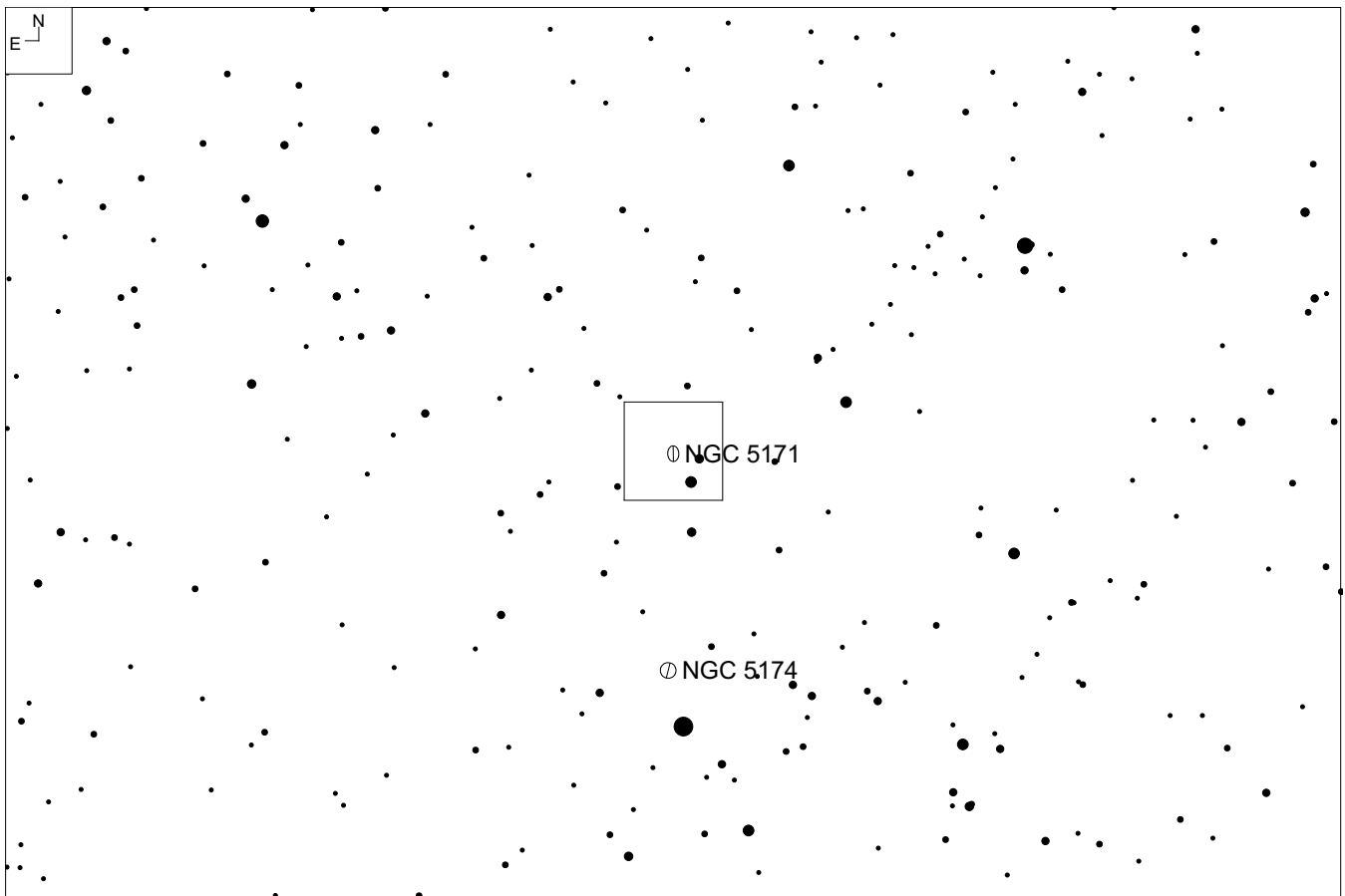
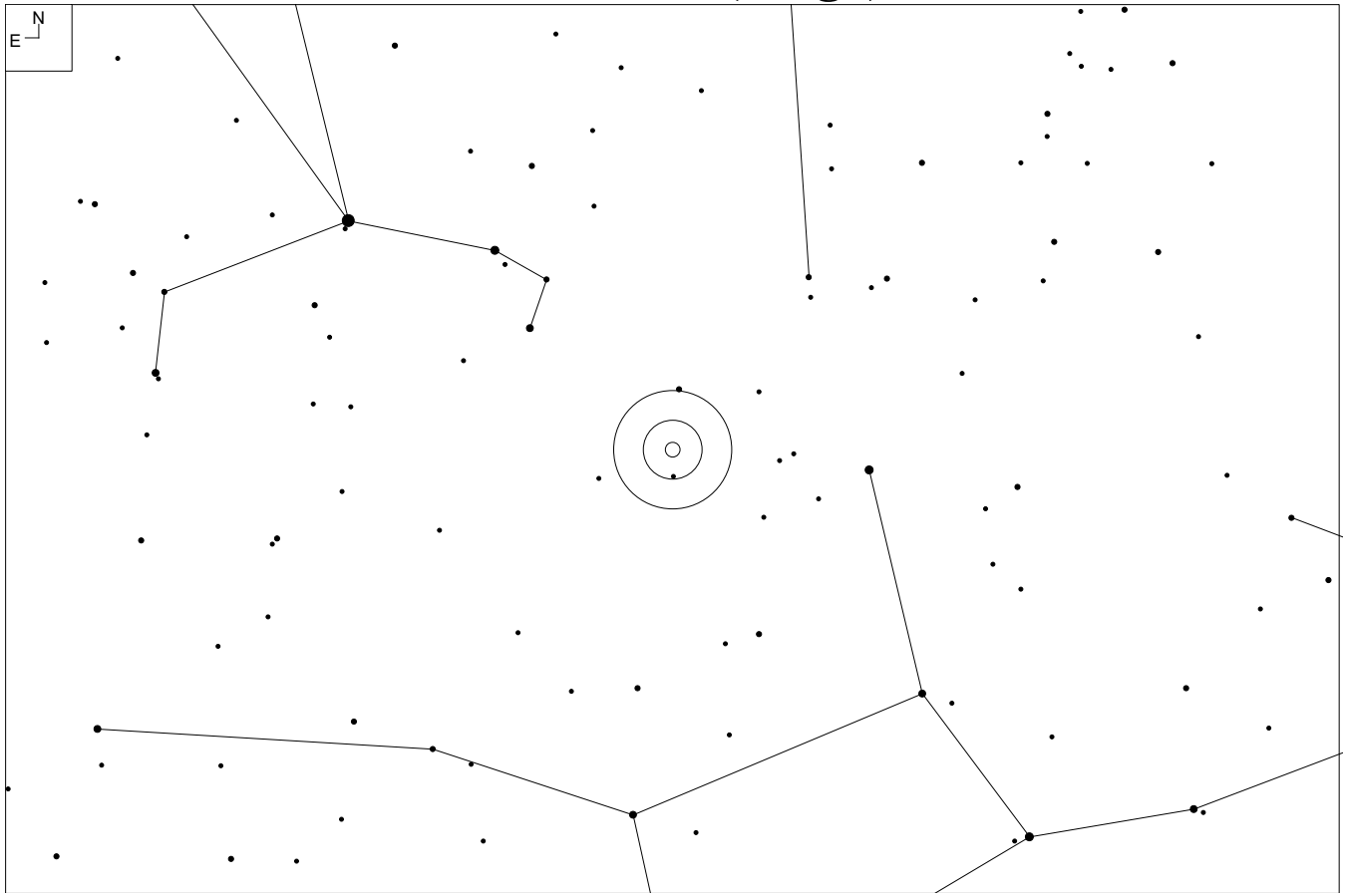


NGC 5077 (Virgo)

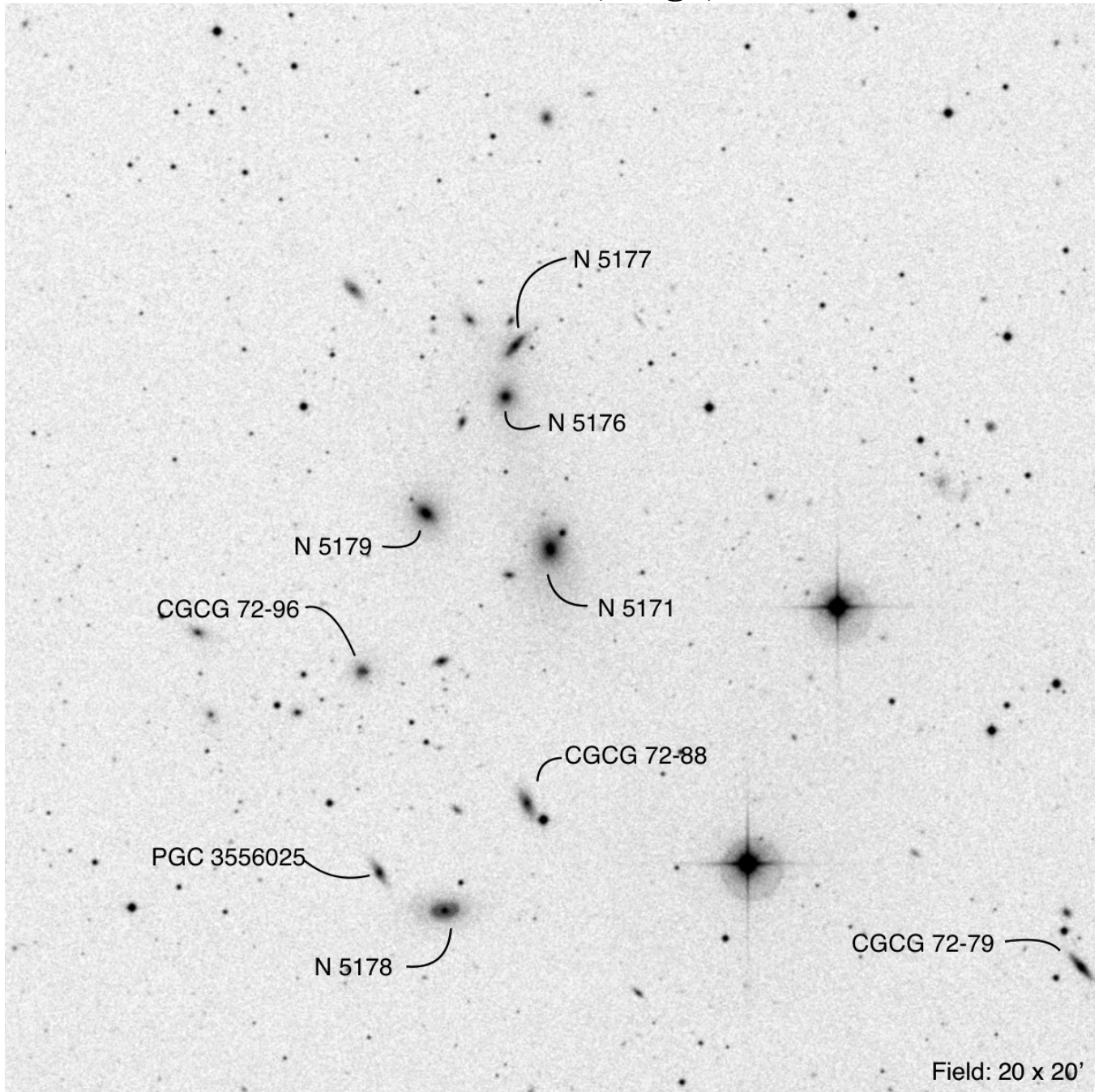


RA	Dec	Mag ₁	# of galaxies	iDSA
13 19 31.7	-12 39 25	12.8	7	69

NGC 5171 (Virgo)

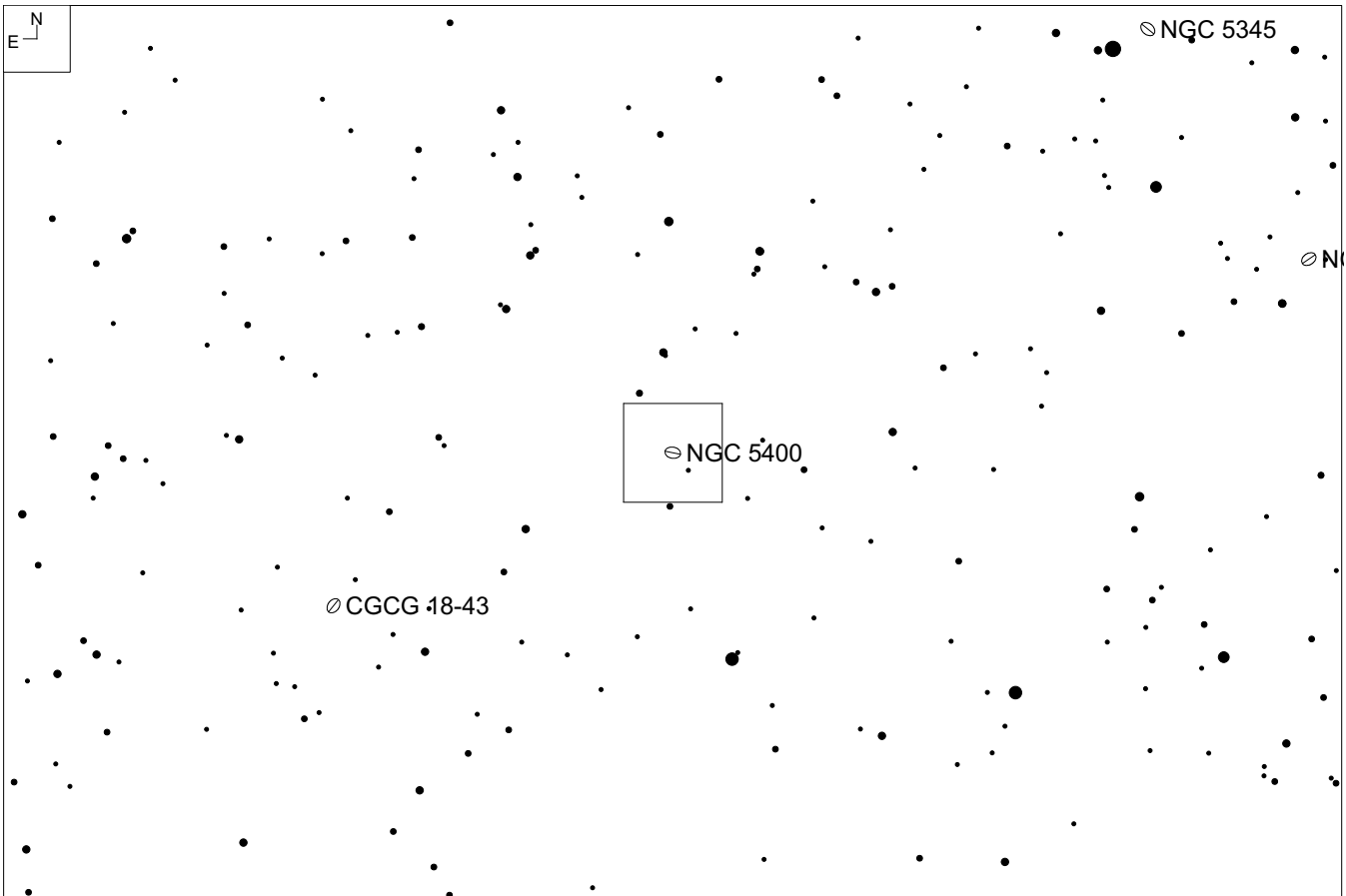
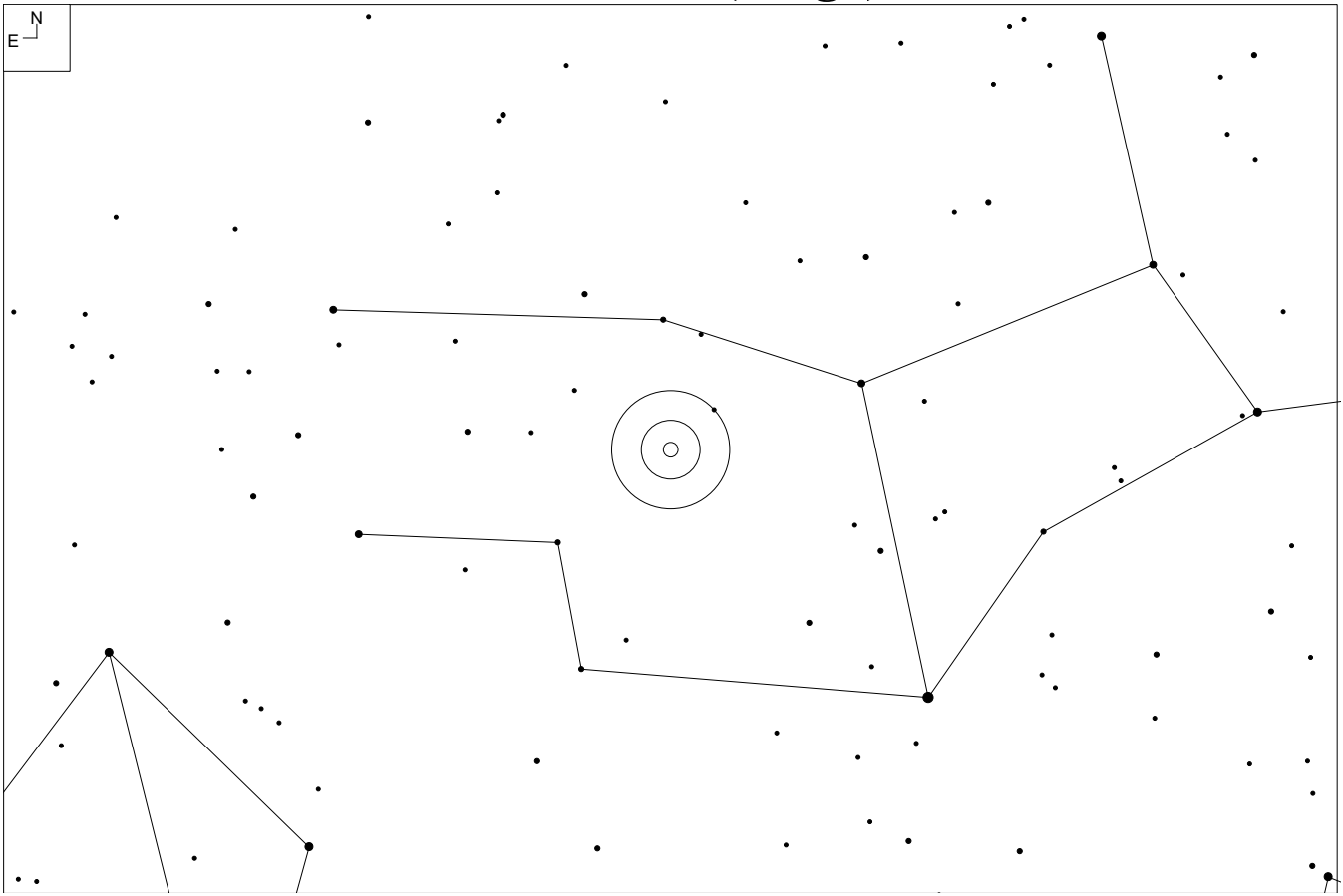


NGC 5171 (Virgo)

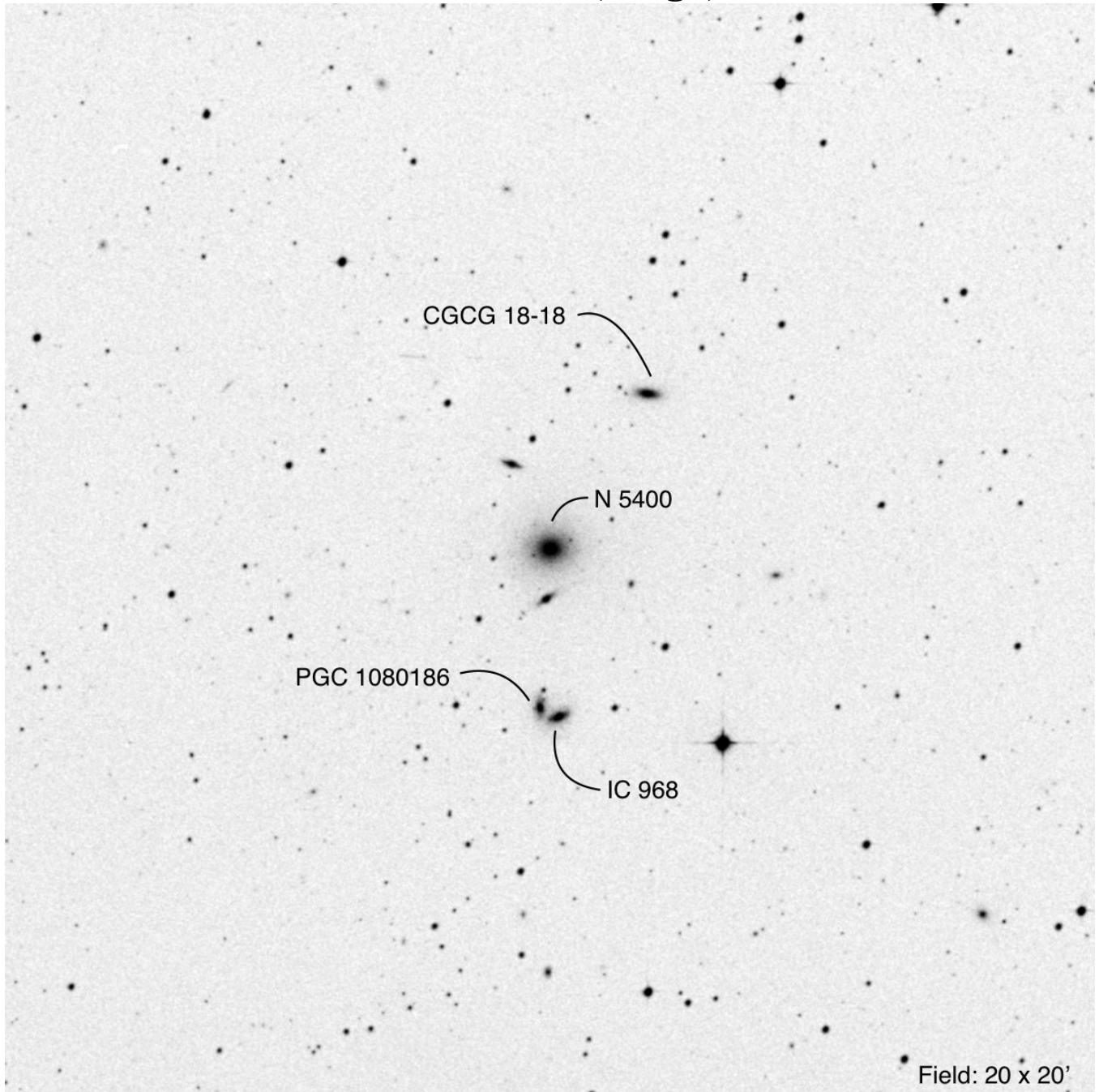


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 11	13 29 21.6	+11 44 06	12.8	9	45

NGC 5400 (Virgo)

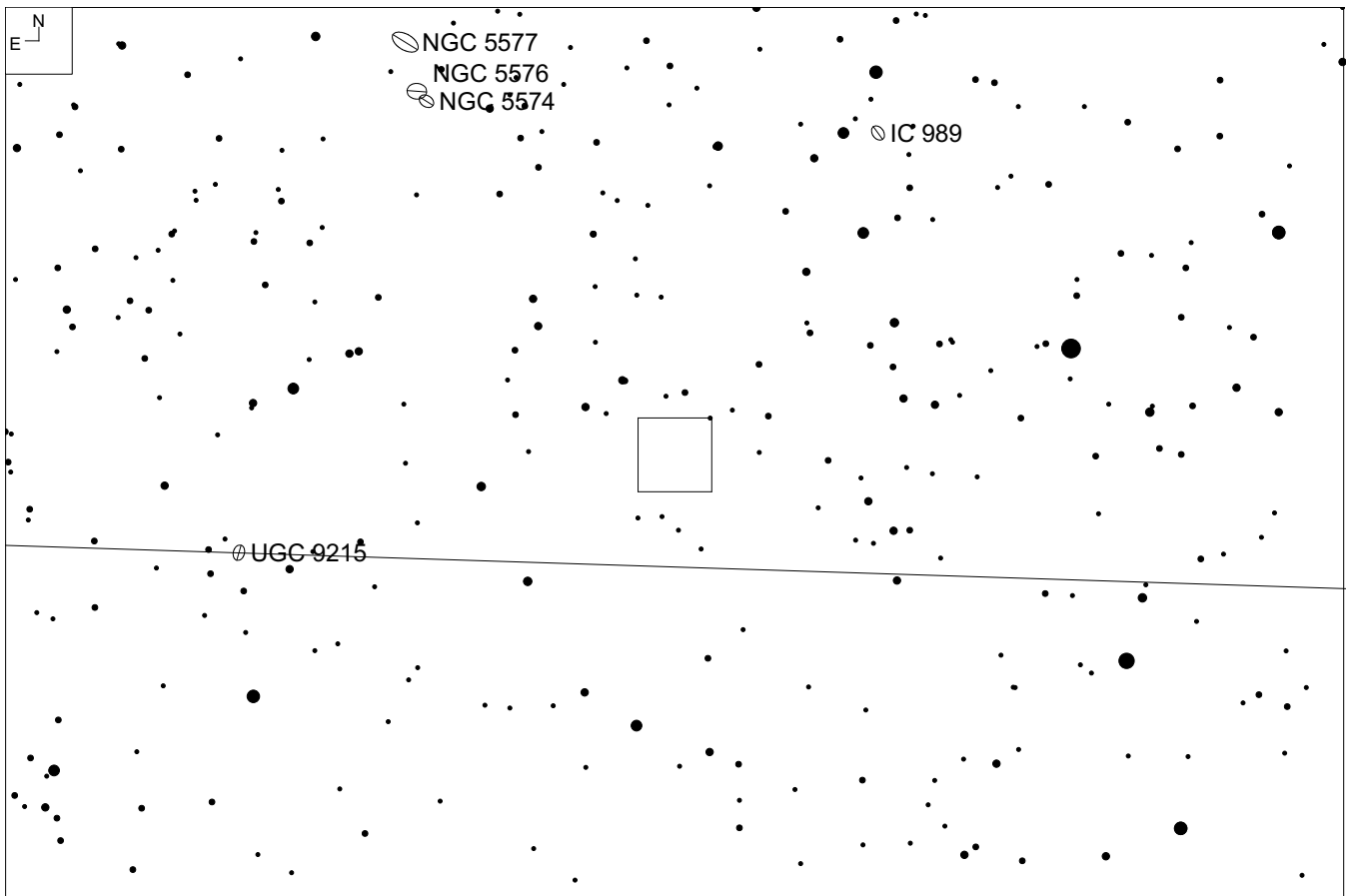
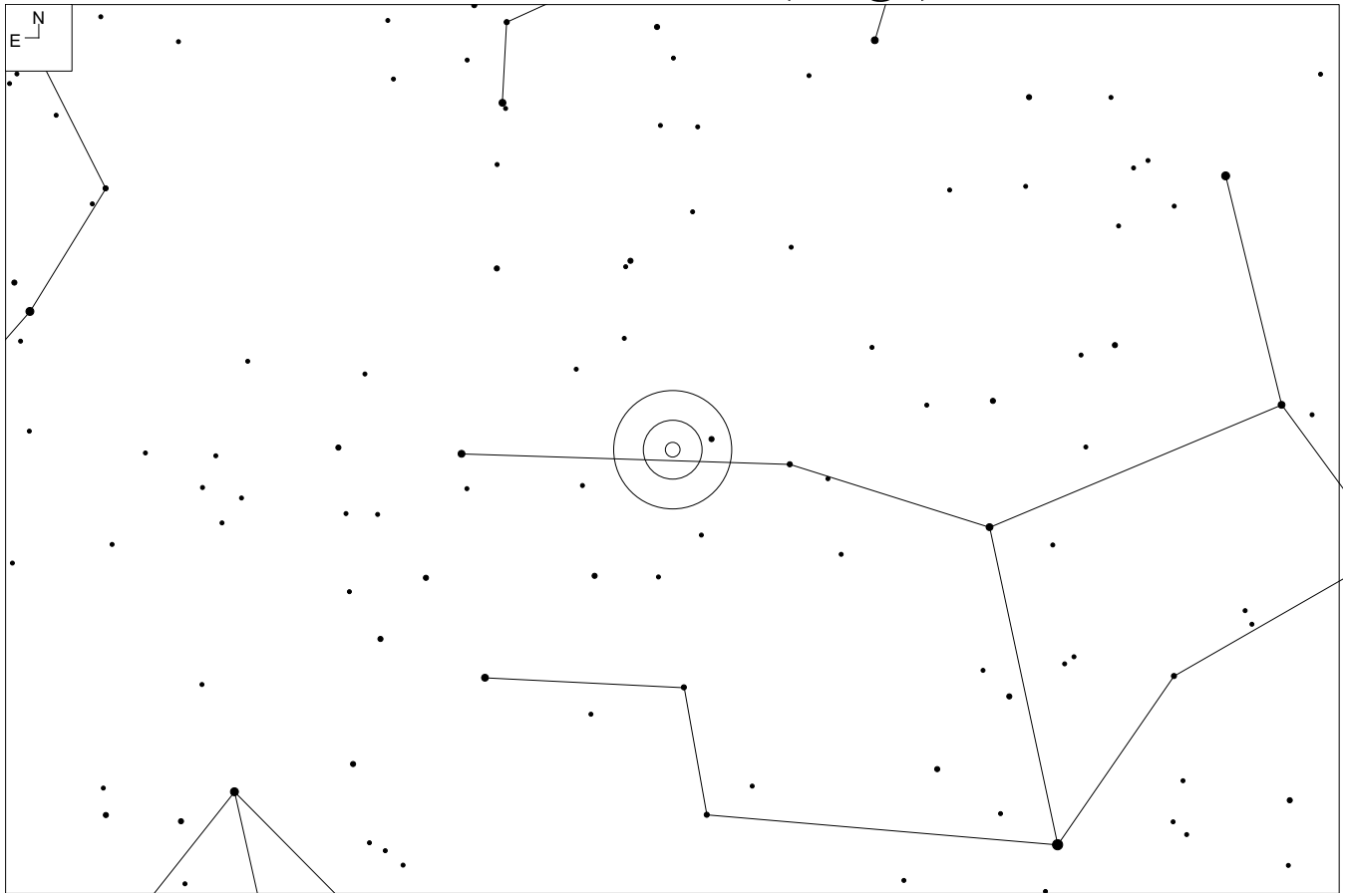


NGC 5400 (Virgo)



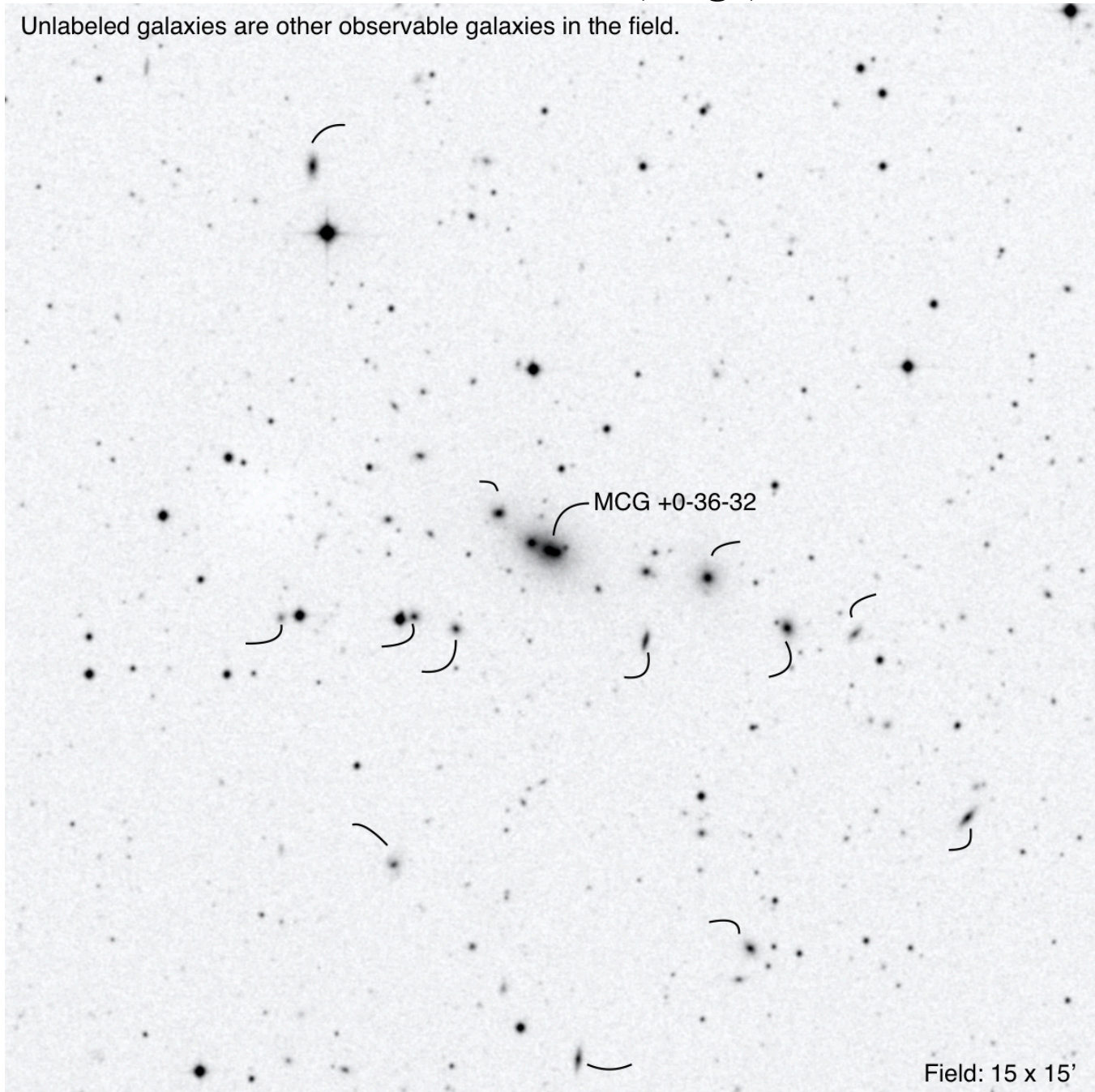
Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 5	14 00 37.2	-02 51 27	13.9	4	56, 57

MCG +0-36-32 (Virgo)



MCG +0-36-32 (Virgo)

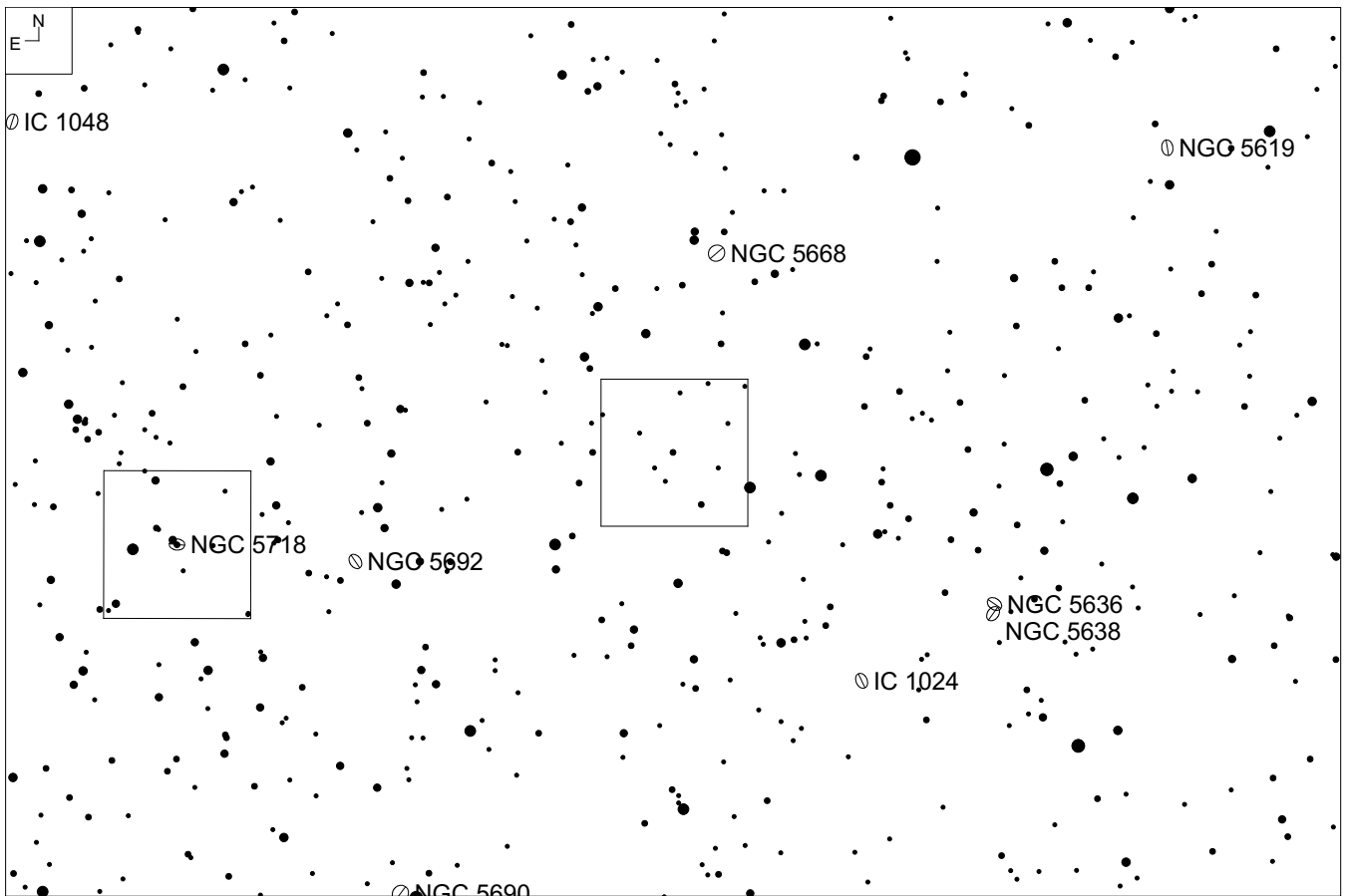
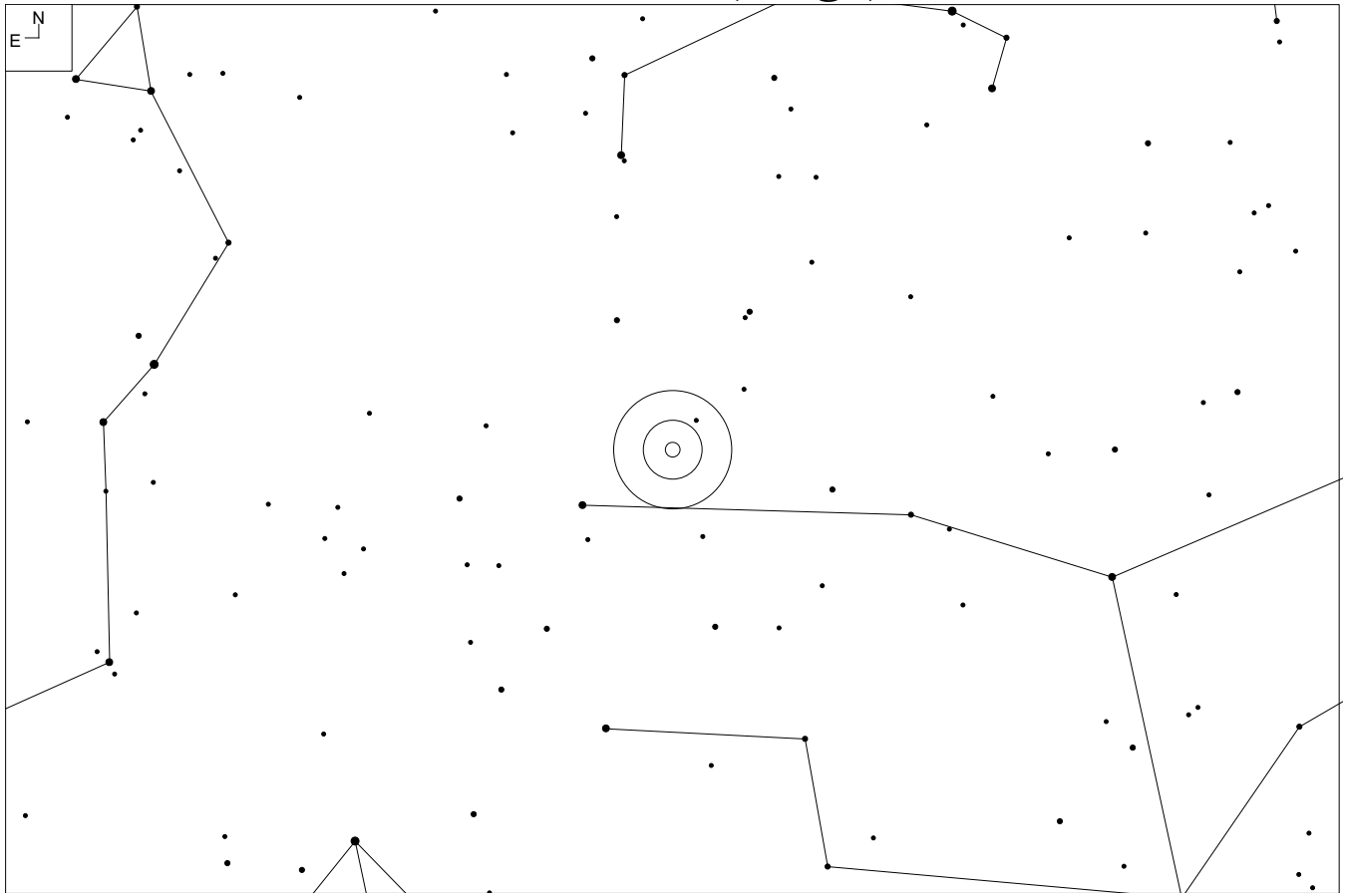
Unlabeled galaxies are other observable galaxies in the field.



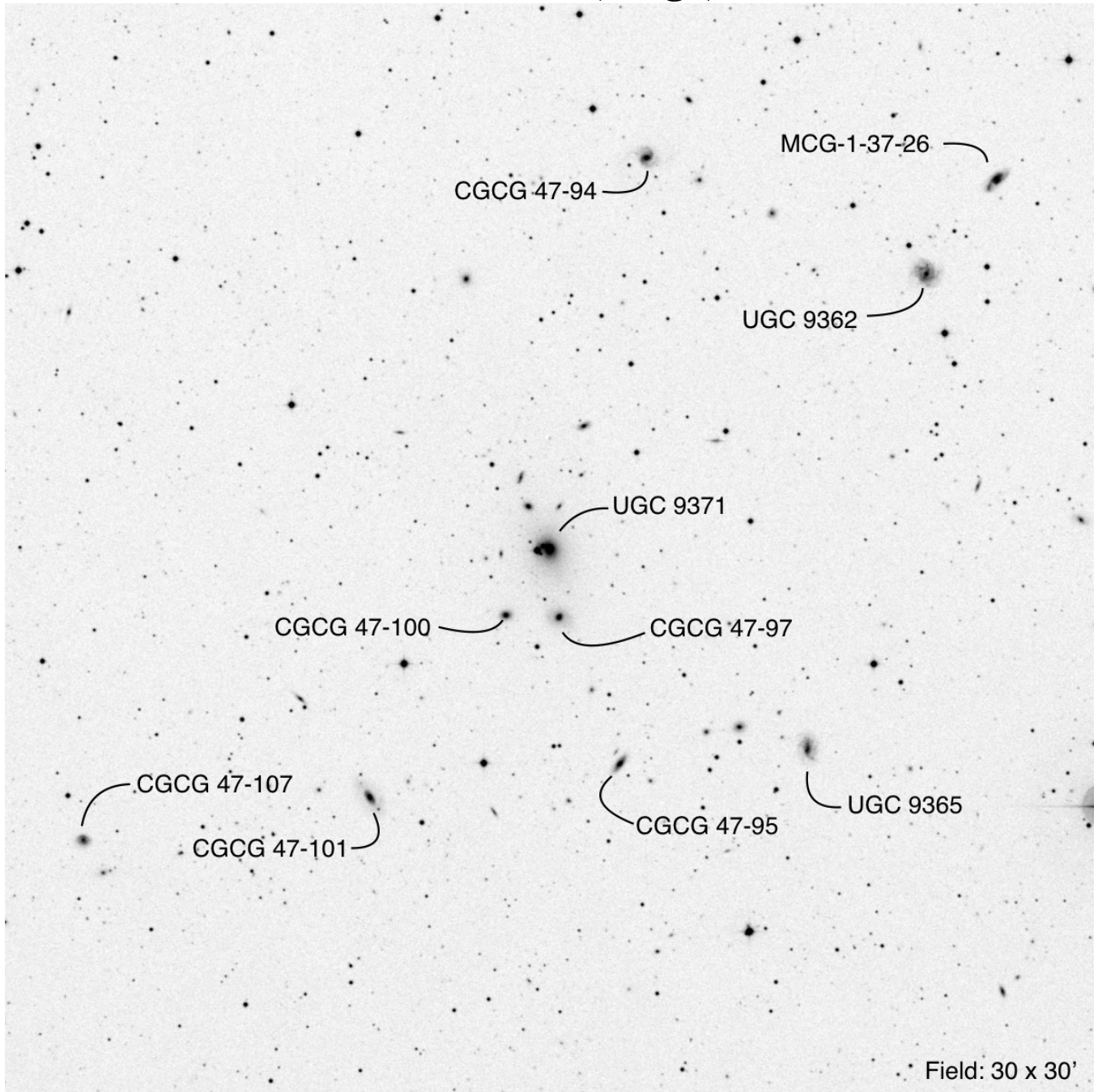
Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 6	14 17 35.5	+02 03 11	15.3	1*	56

*Note: Most galaxies are not plotted on most star charting software.

UGC 9371 (Virgo)

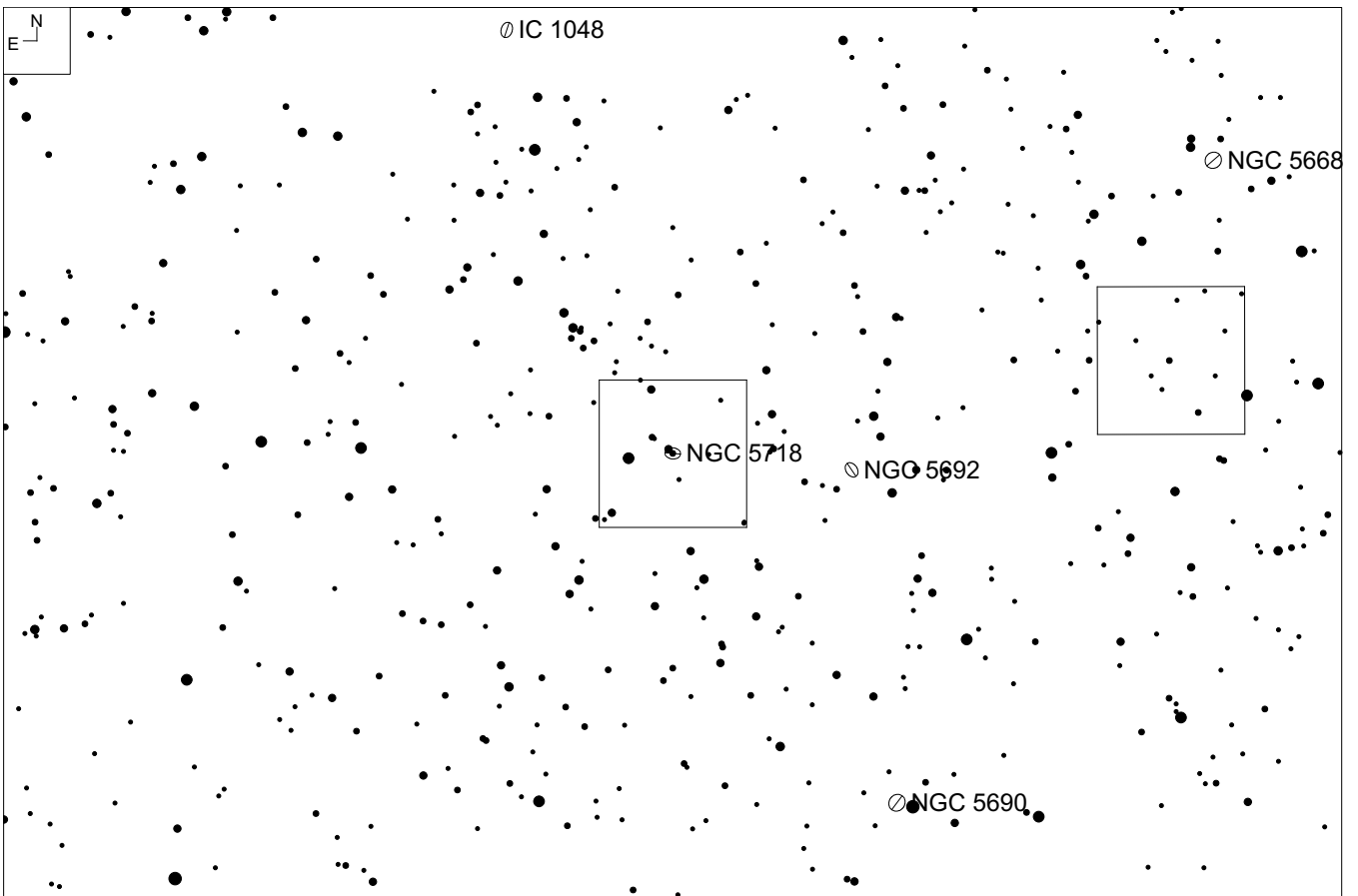
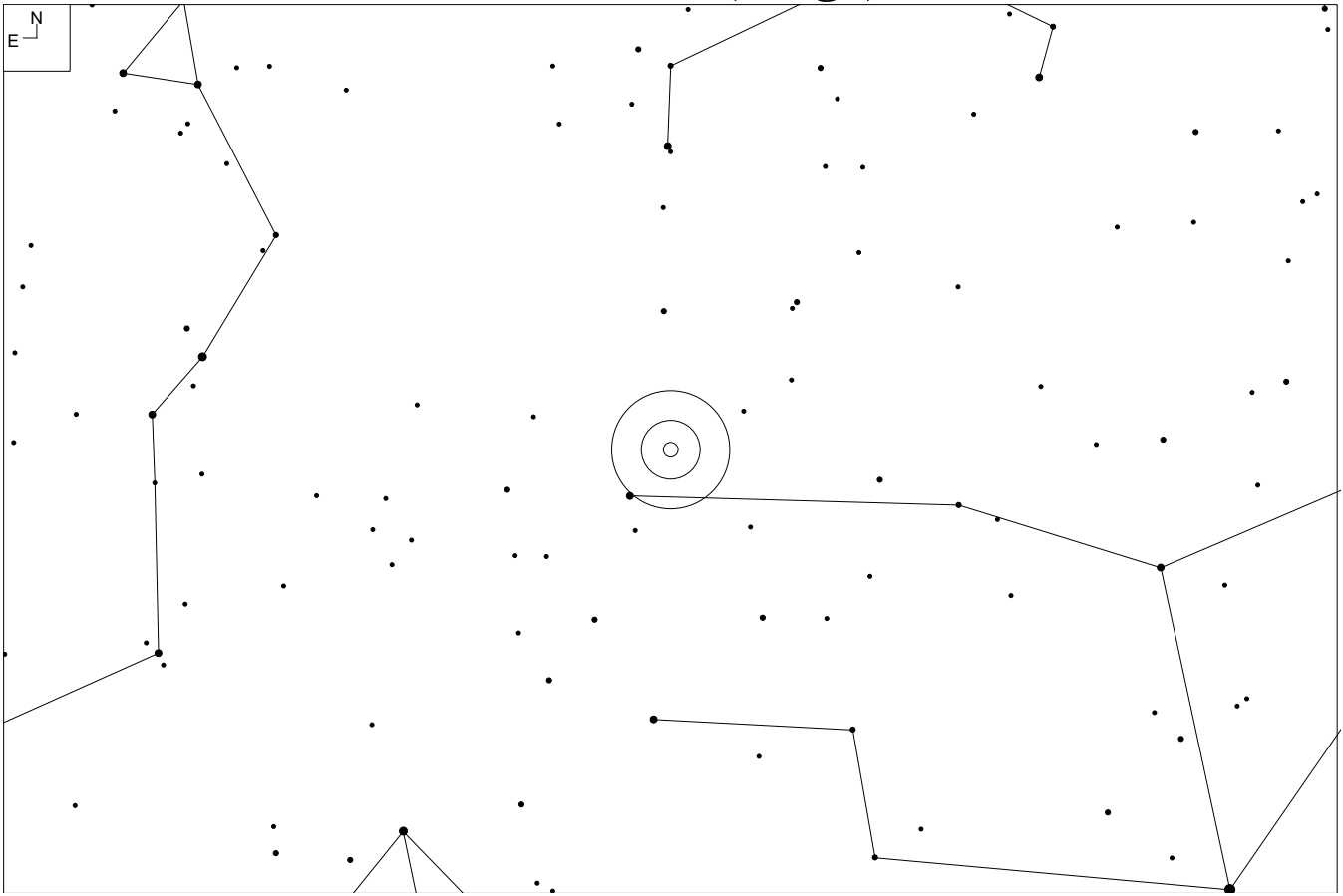


UGC 9371 (Virgo)

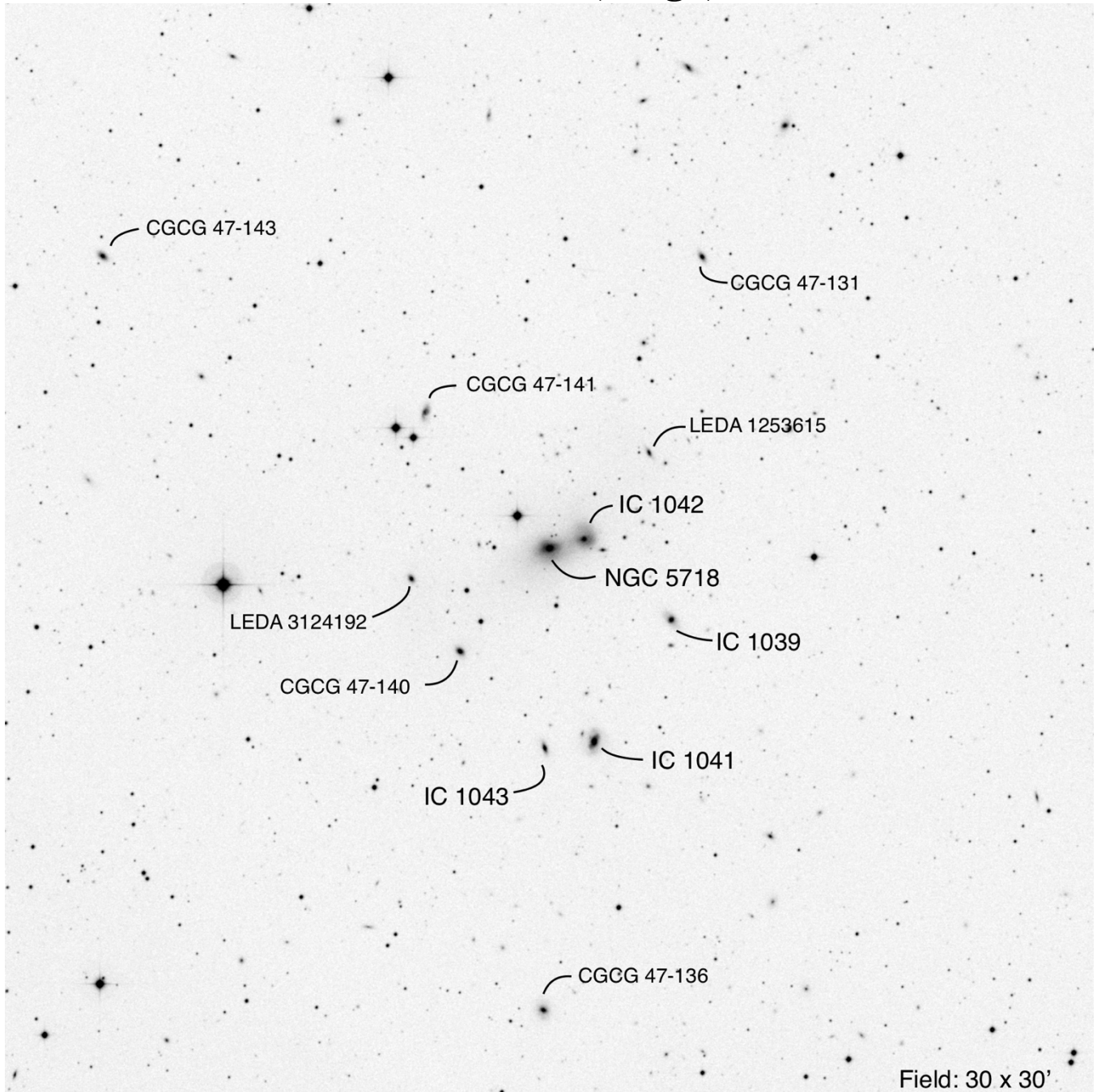


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 7	14 33 59.1	+03 46 40	15.0	10	56

NGC 5718 (Virgo)

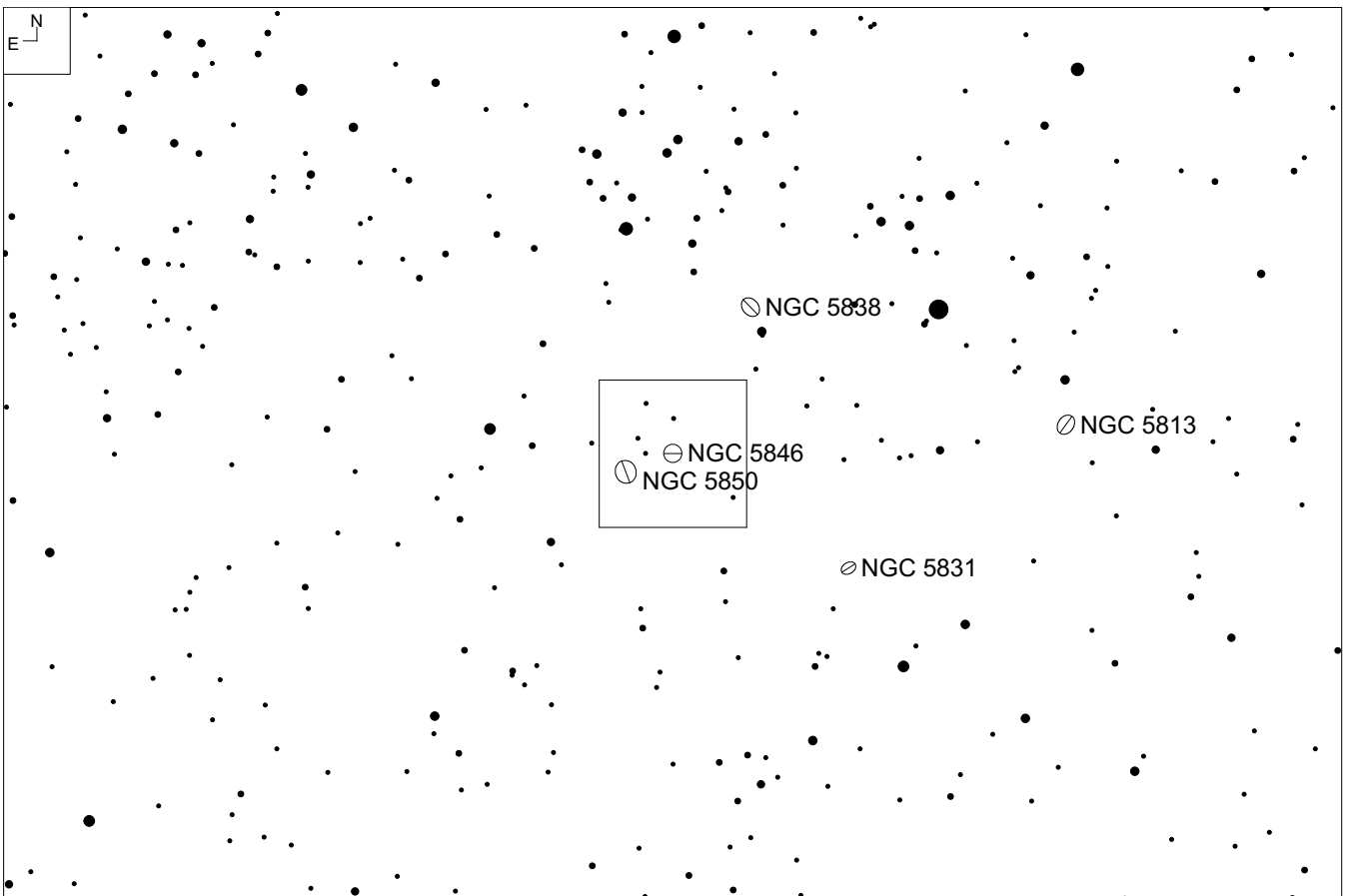
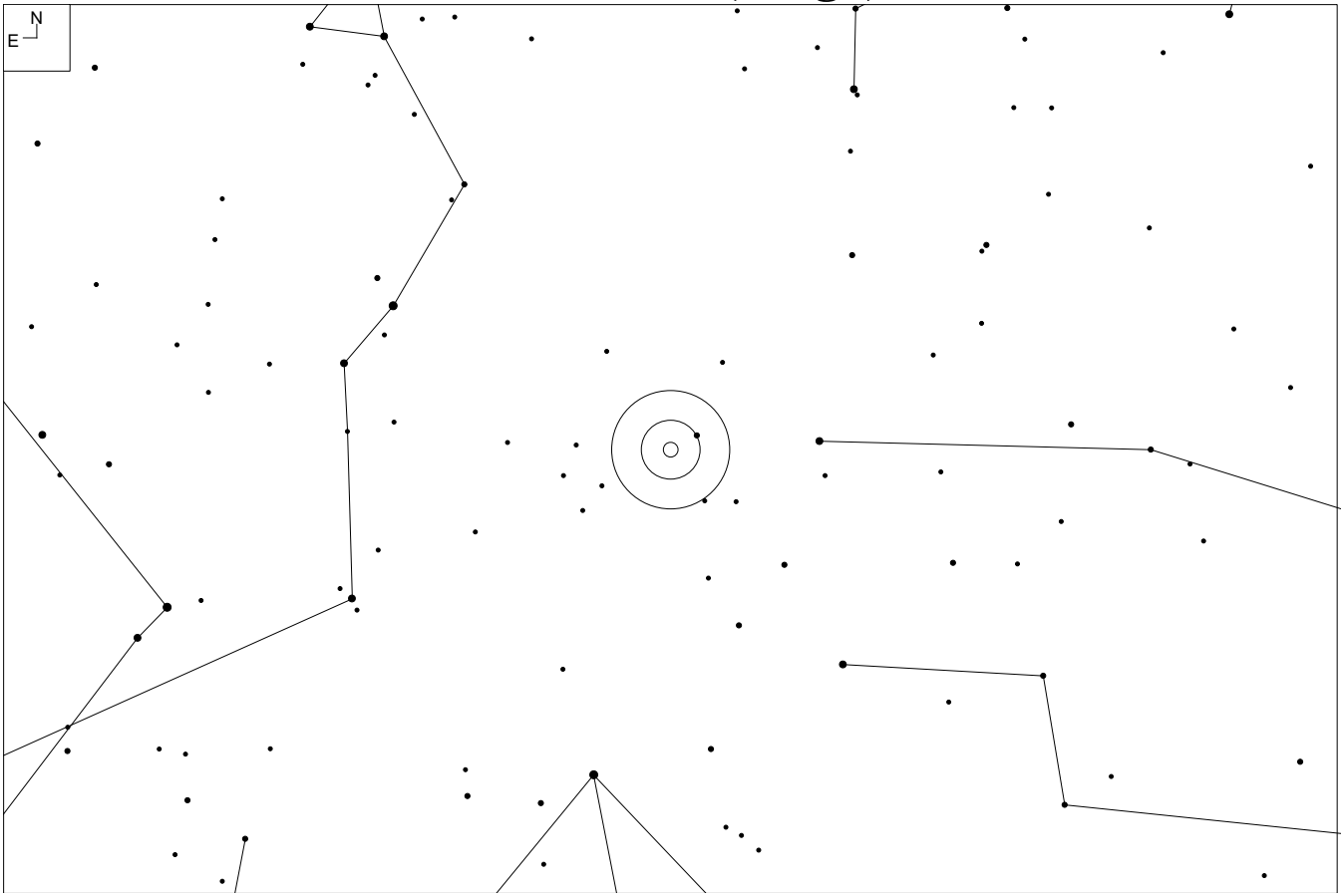


NGC 5718 (Virgo)

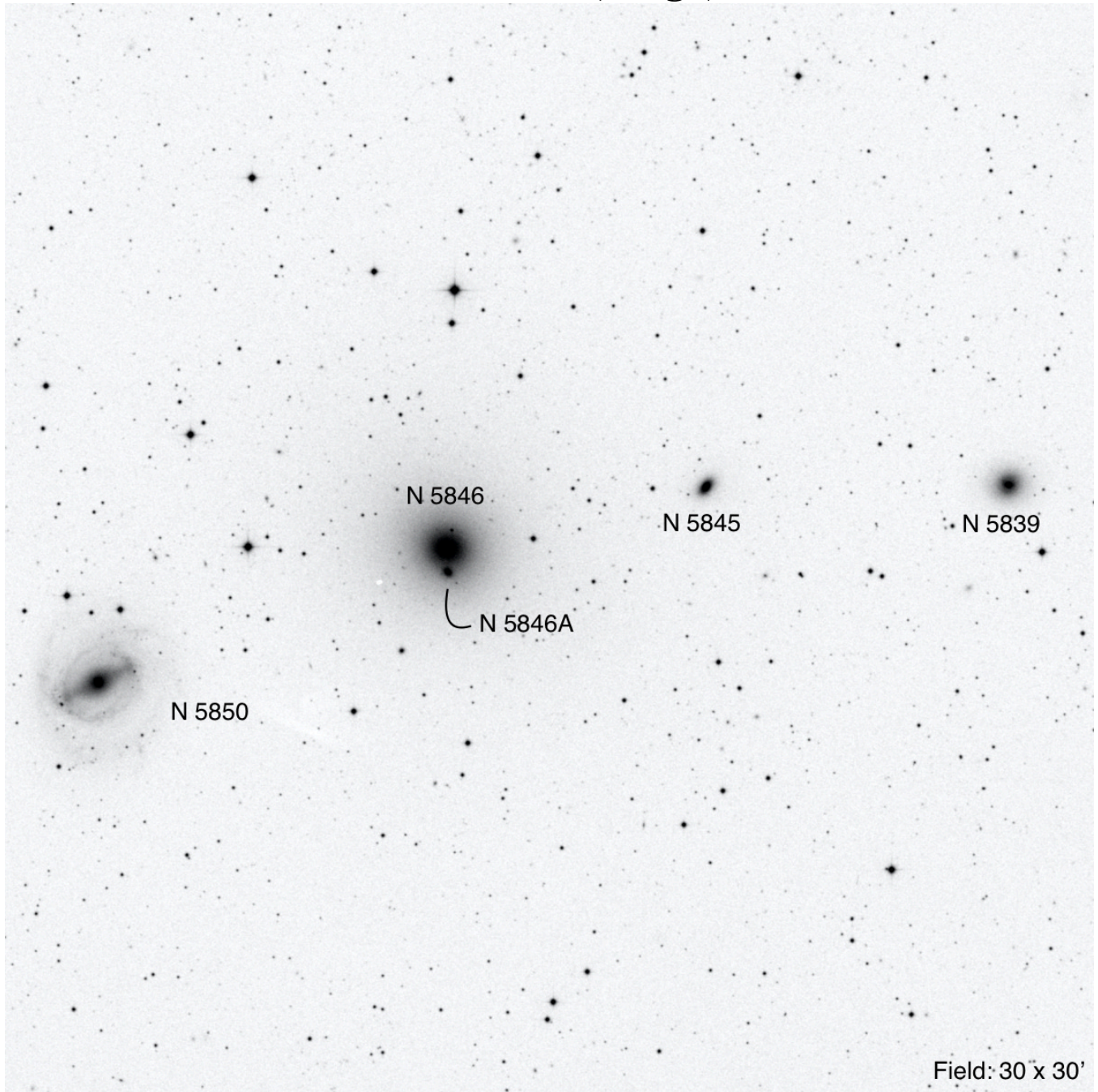


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 8	14 40 42.9	+03 27 57	13.9	12	56

NGC 5846 (Virgo)

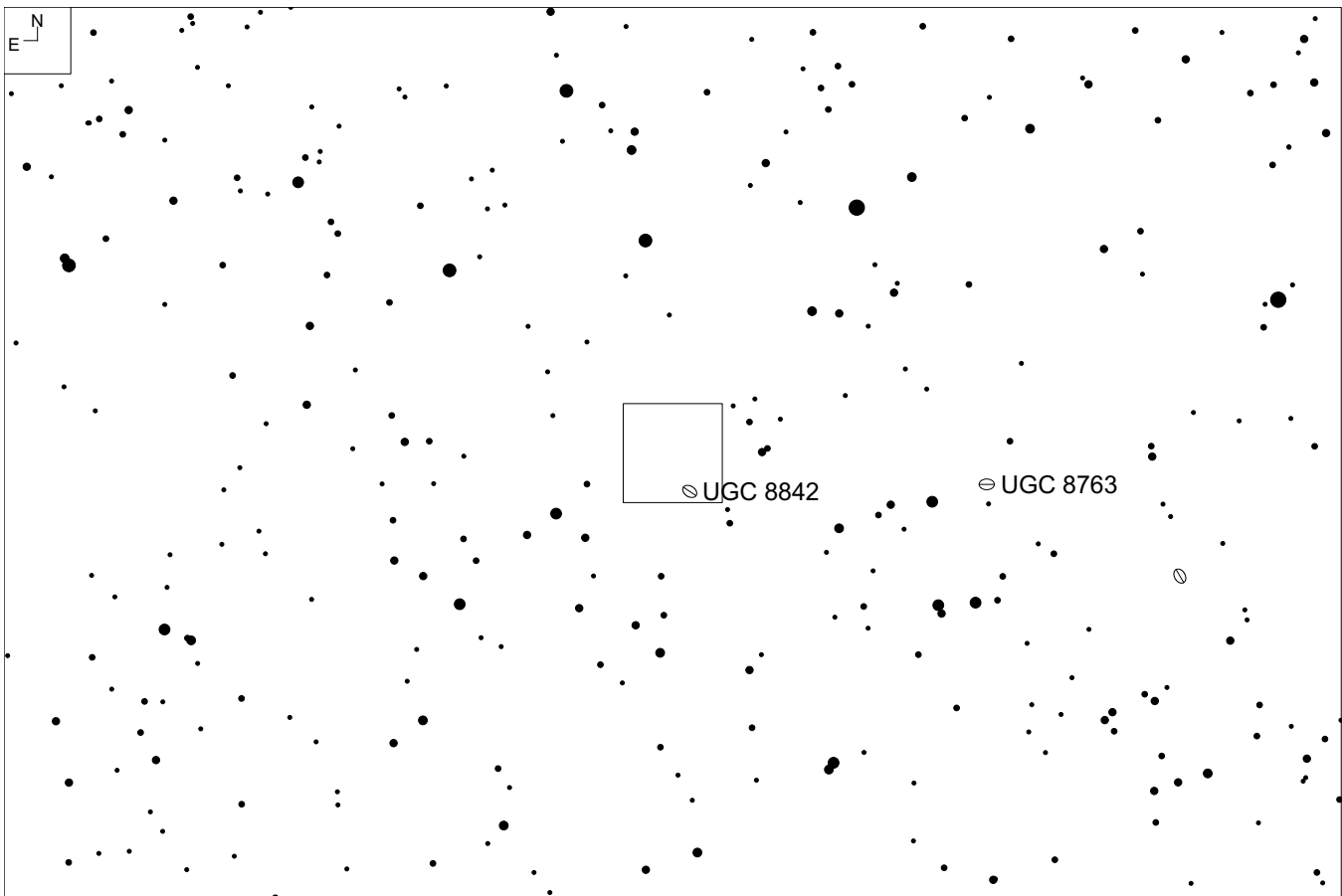
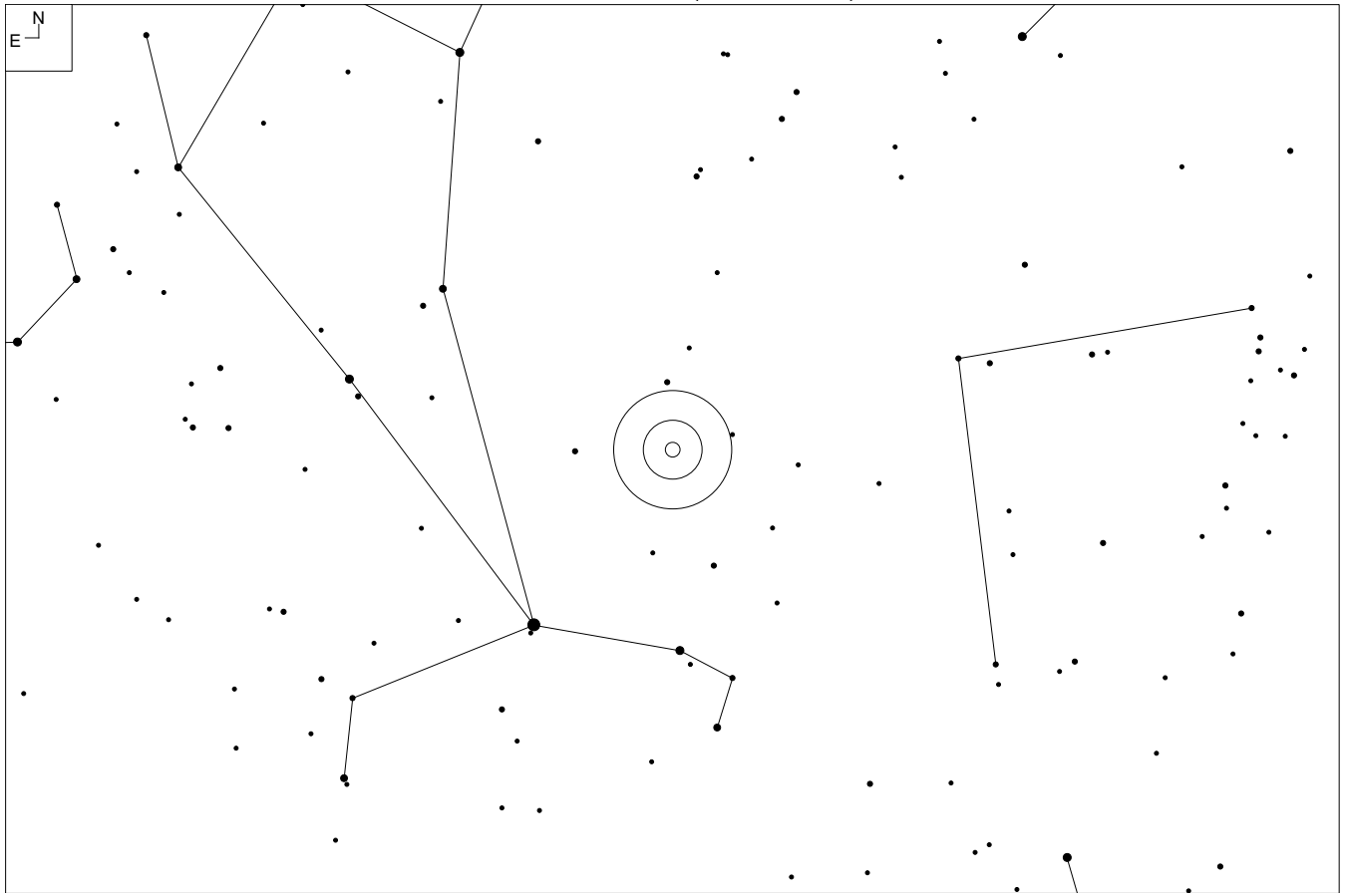


NGC 5846 (Virgo)

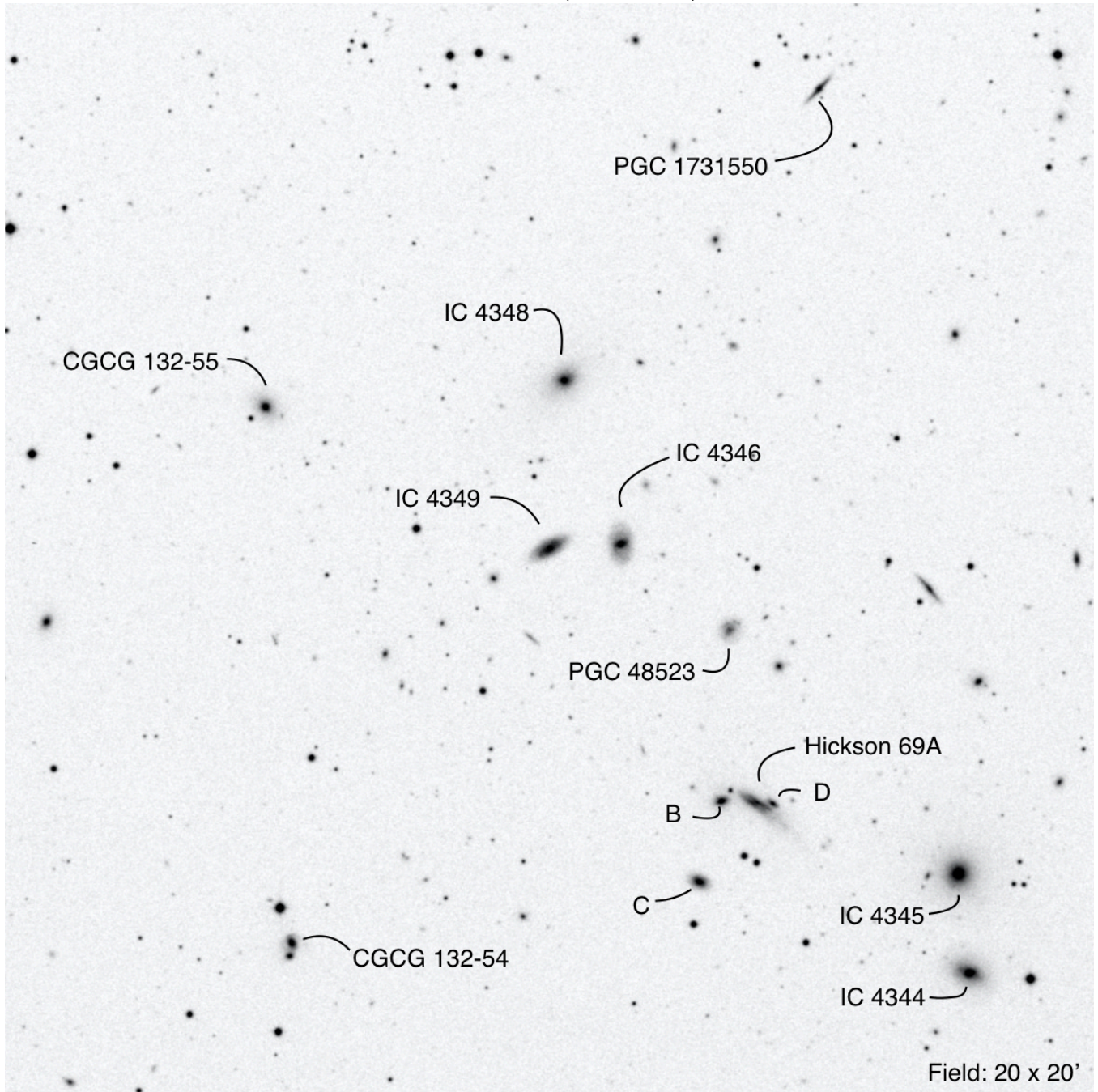


RA	Dec	Mag ₁	# of galaxies	iDSA
15 06 18	+01 36 23	10.0	5	56

IC 4349 (Boötes)

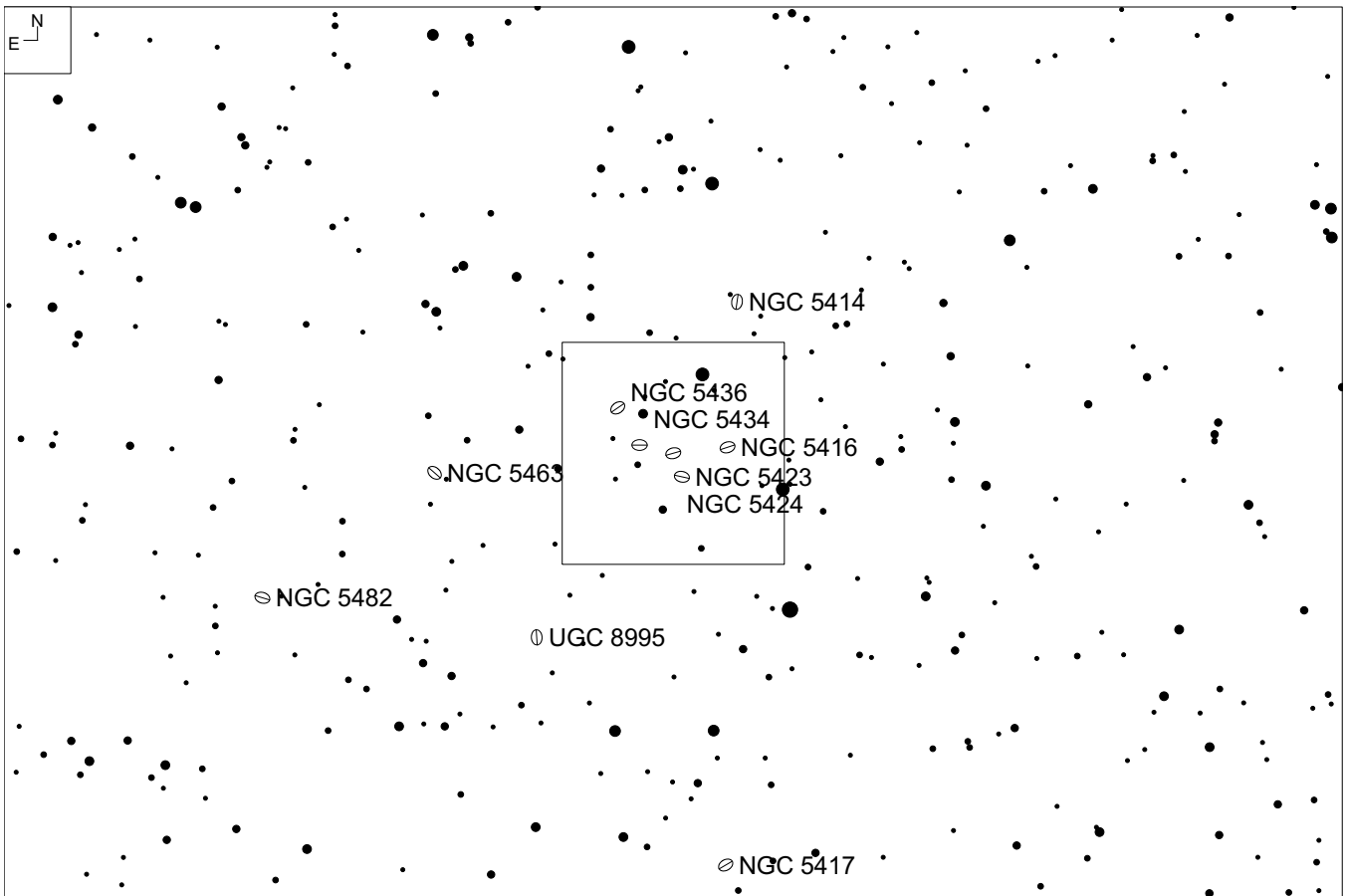
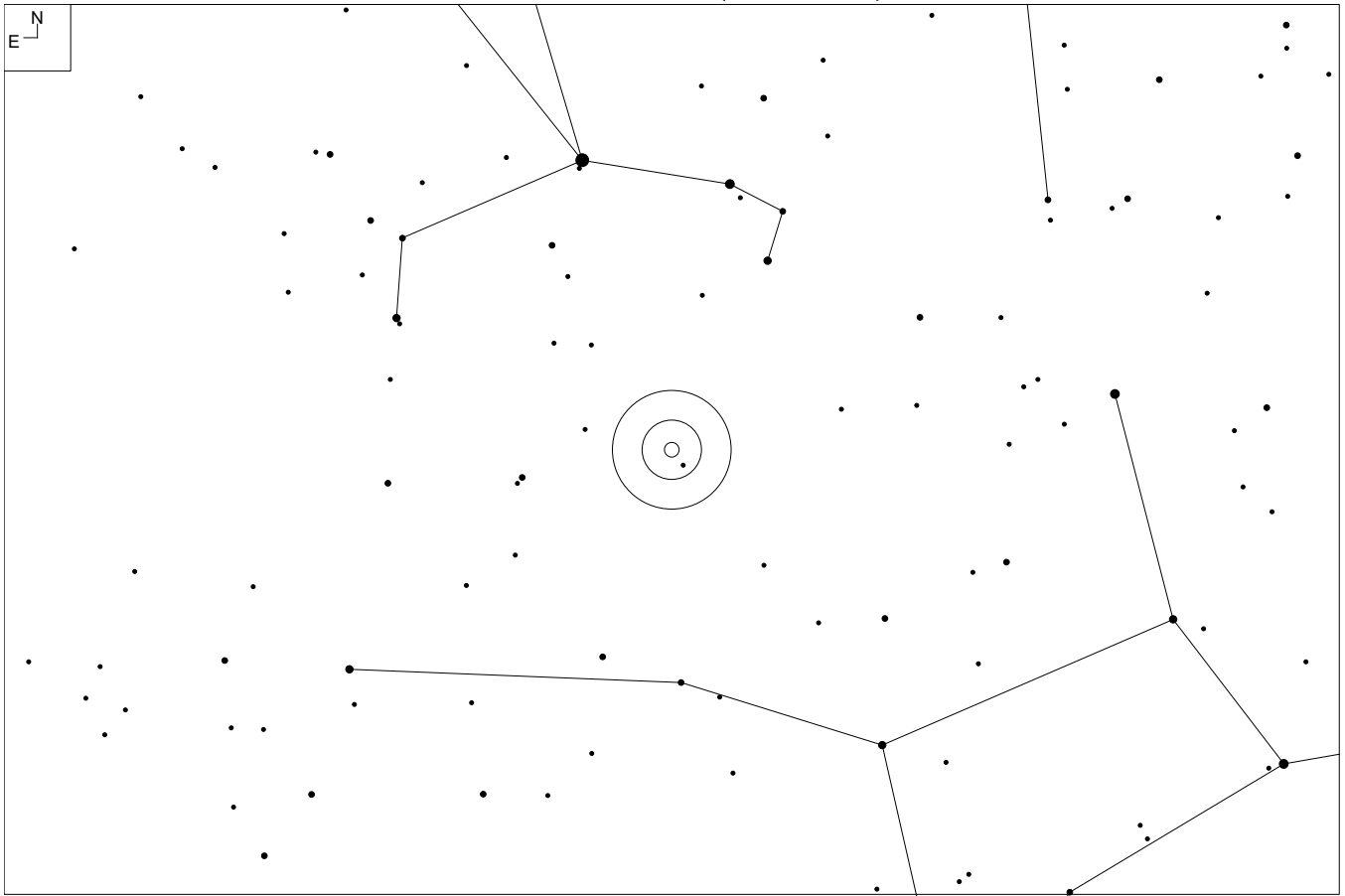


IC 4349 (Boötes)

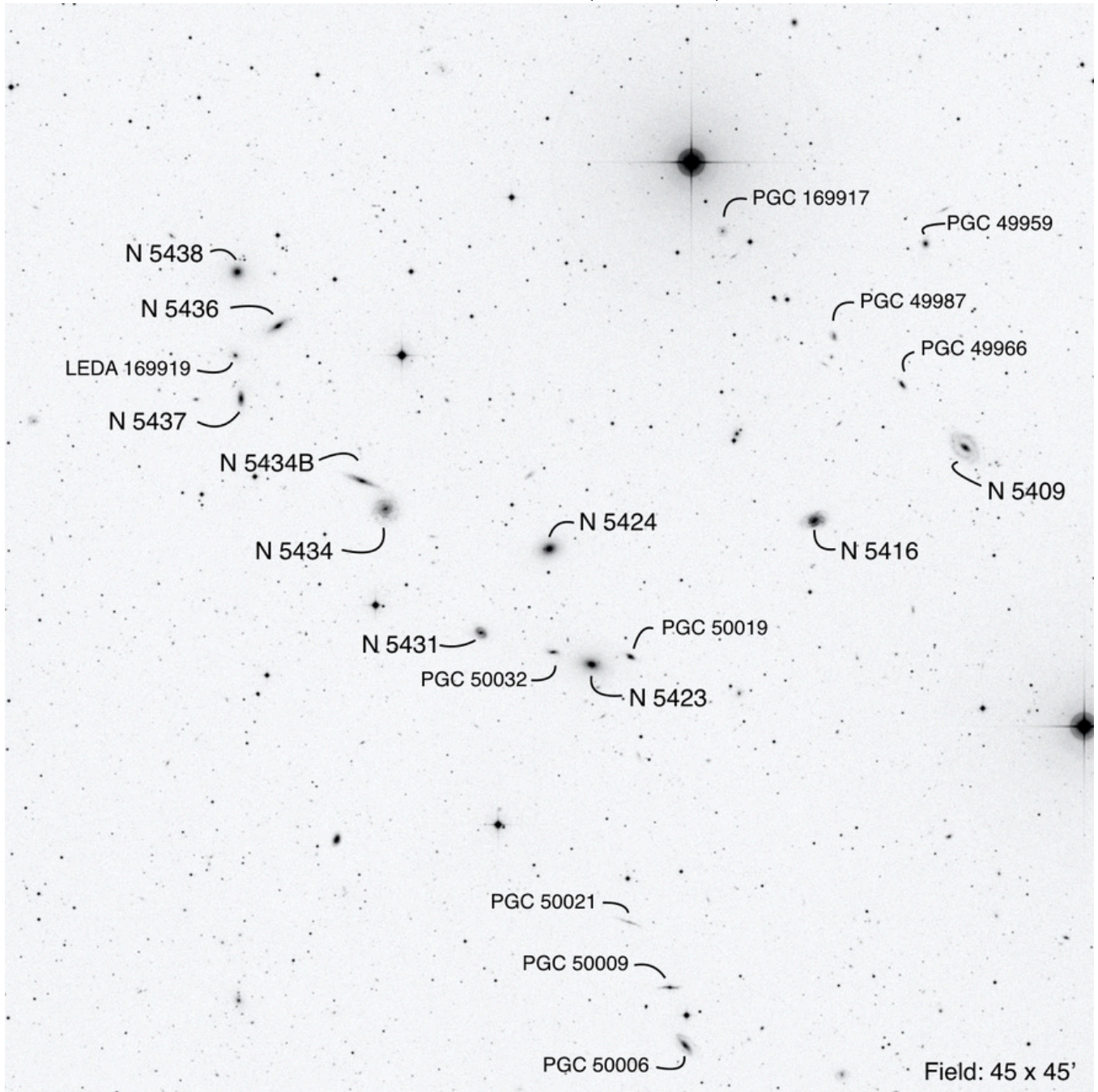


RA	Dec	Mag ₁	# of galaxies	iDSA
13 55 45.1	+25 12 11	15.3	13	32, 33

NGC 5416 (Boötes)

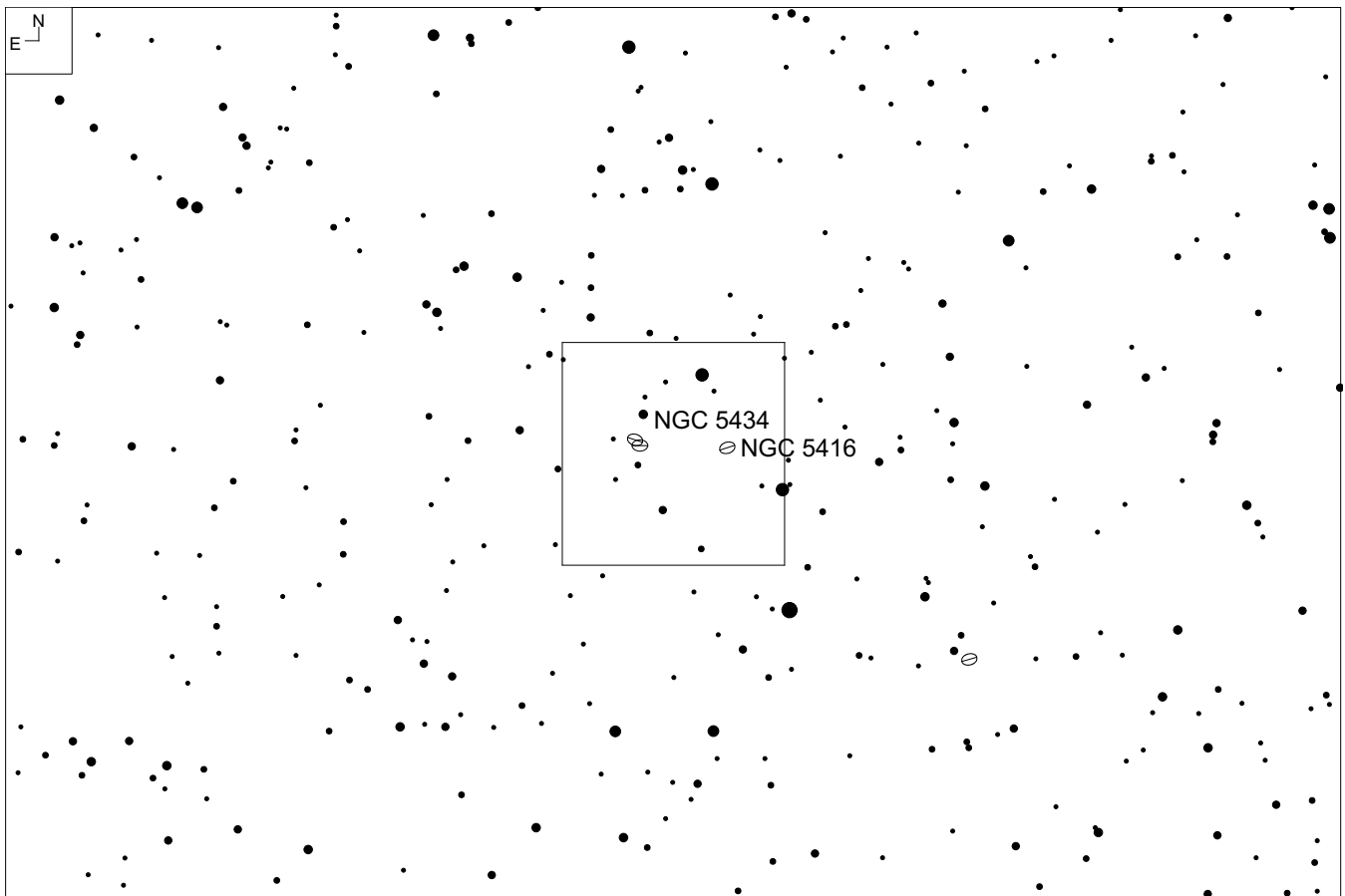
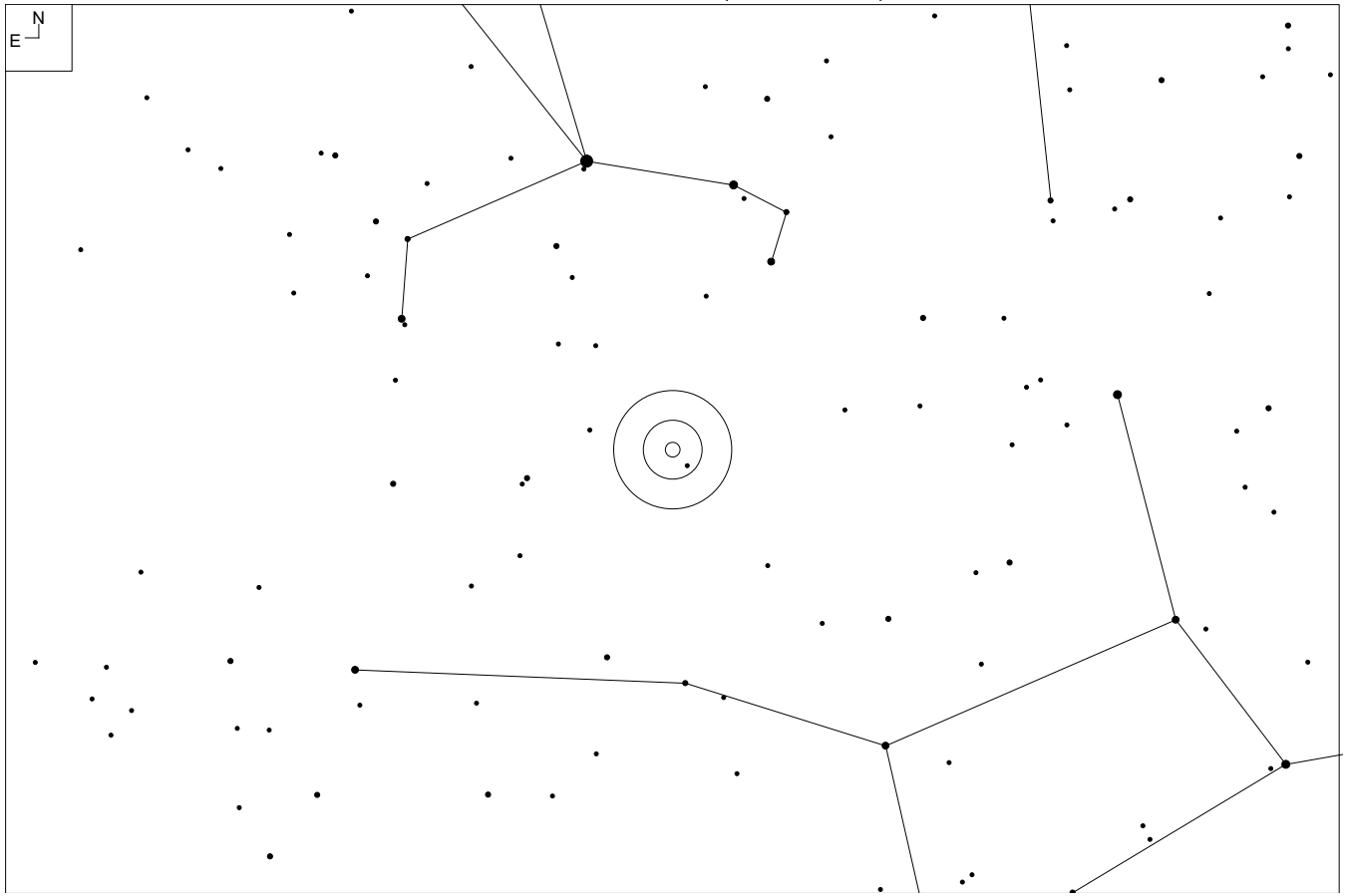


NGC 5416 (Boötes)

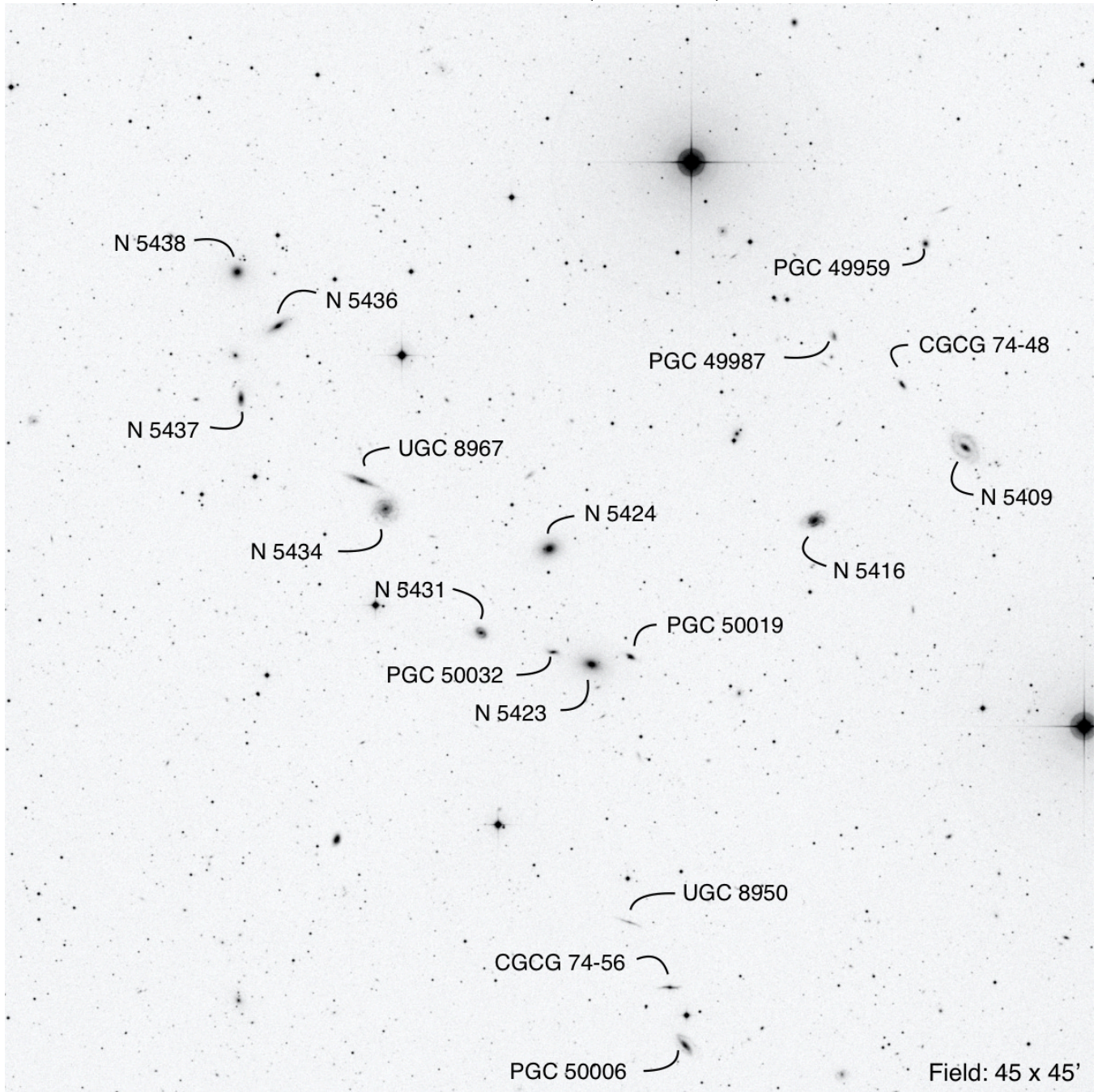


RA	Dec	Mag ₁	# of galaxies	iDSA
14 02 55.7	+09 25 15	13.6	20	44, 45

NGC 5434 (Boötes)

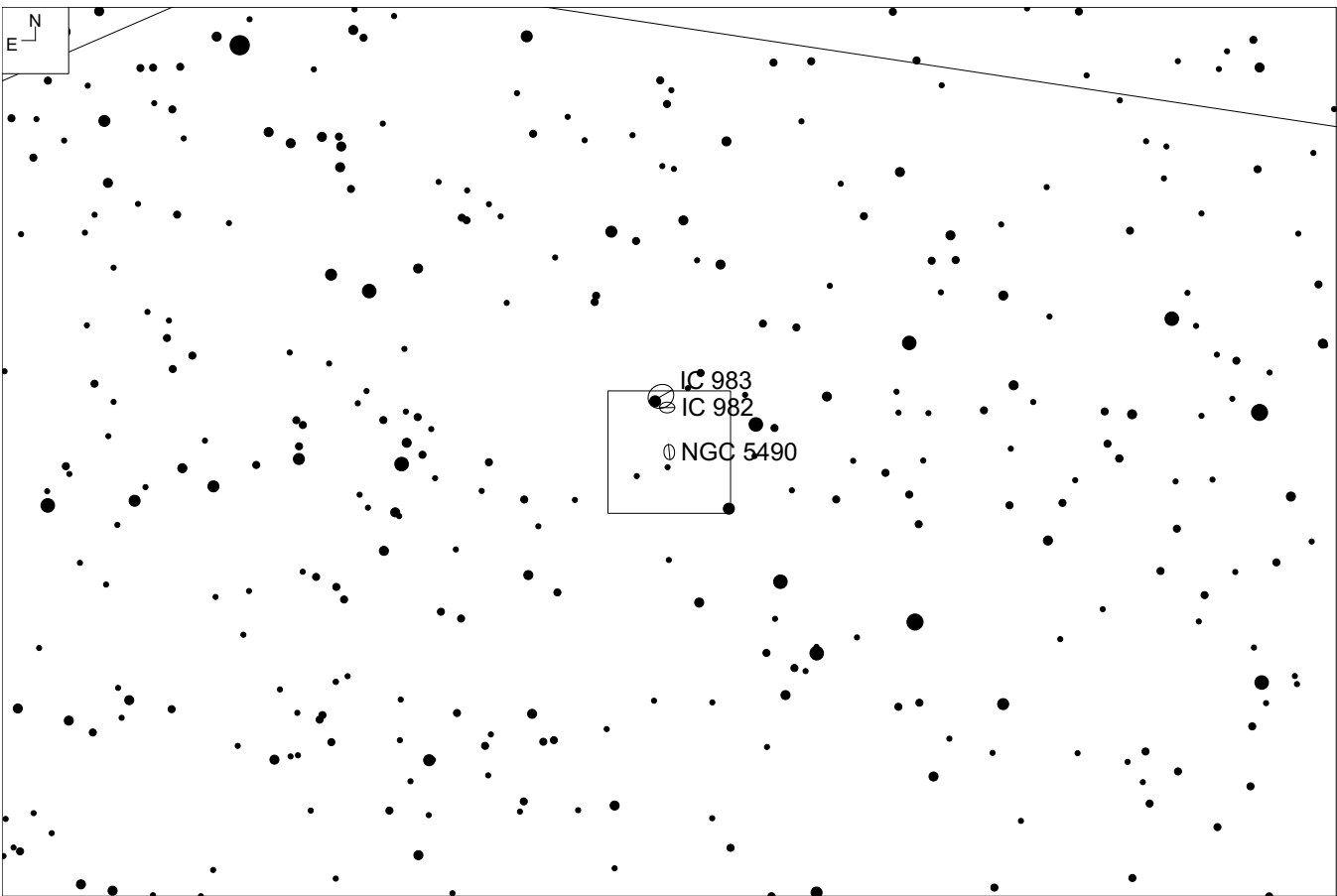
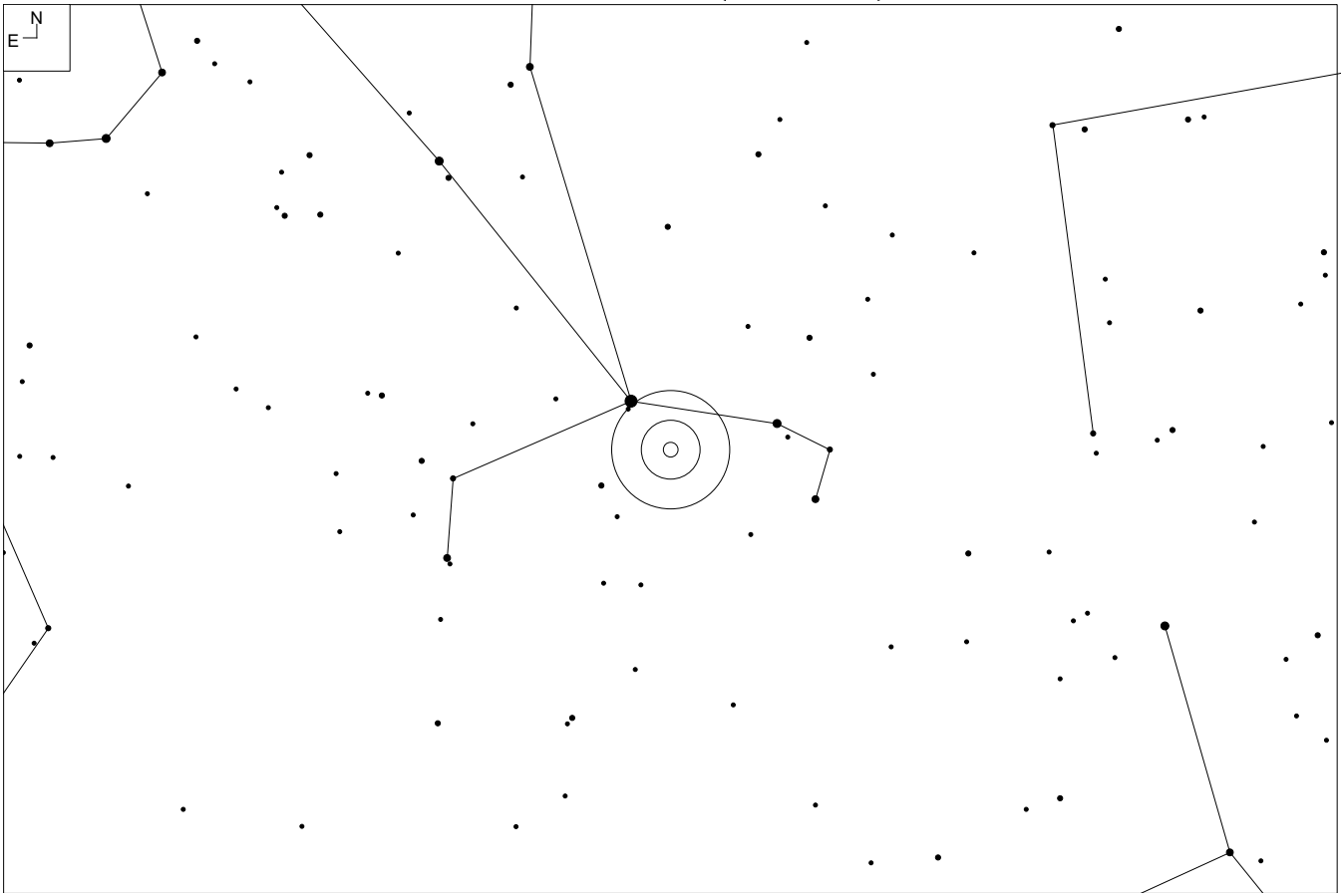


NGC 5434 (Boötes)

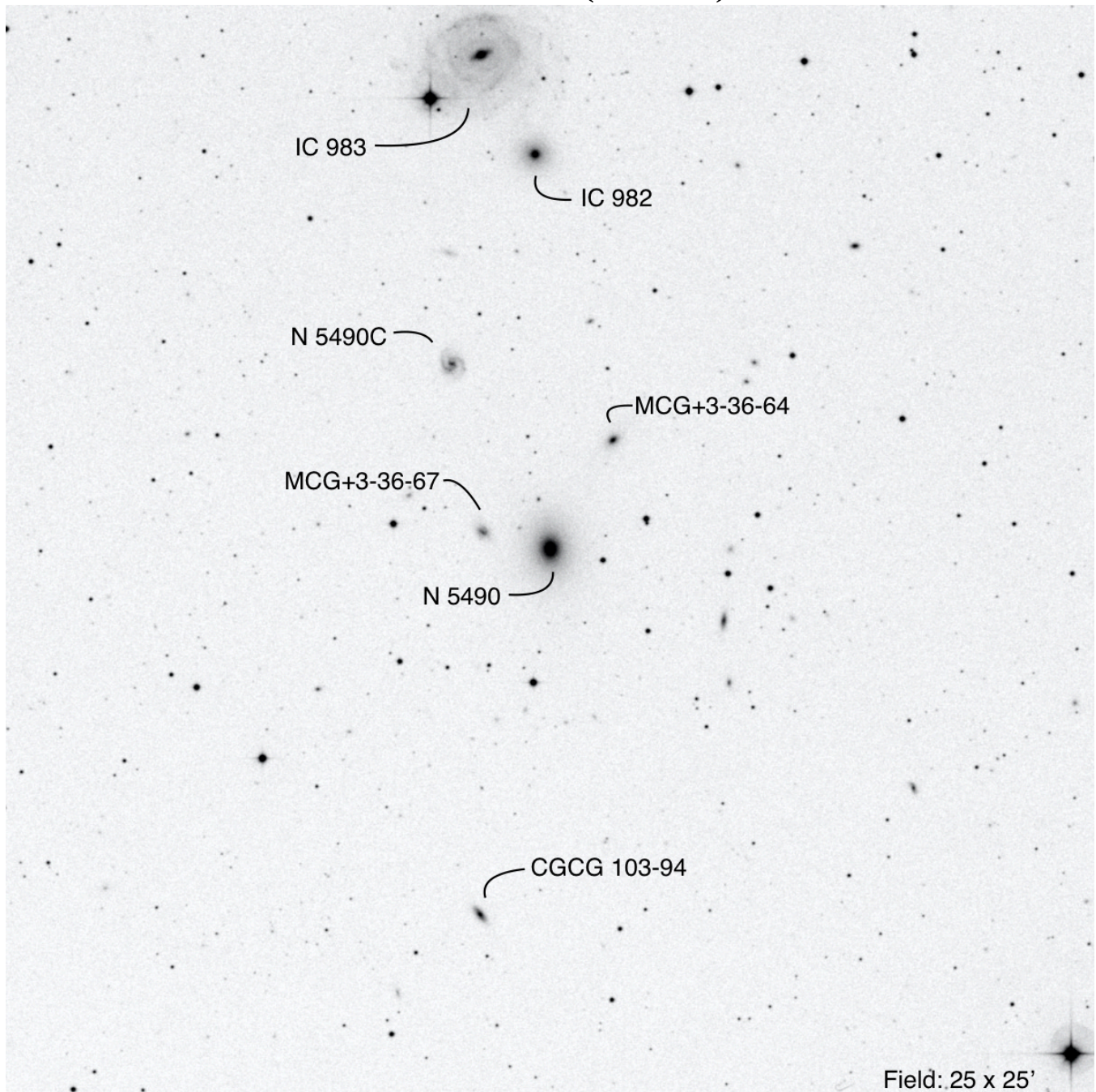


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 12	13 53 26.7	+40 18 09	13.2	18	44

NGC 5490 (Boötes)

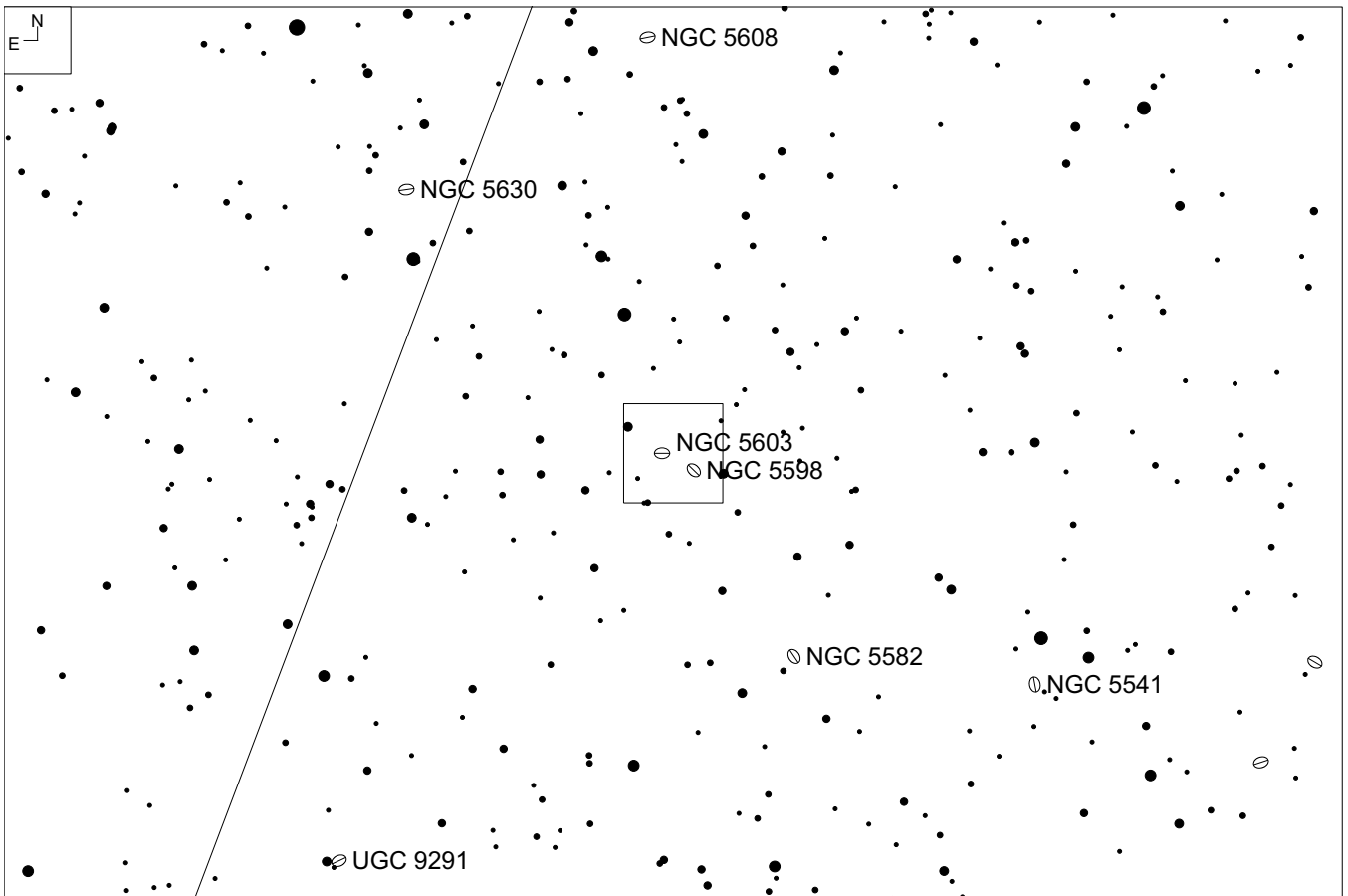
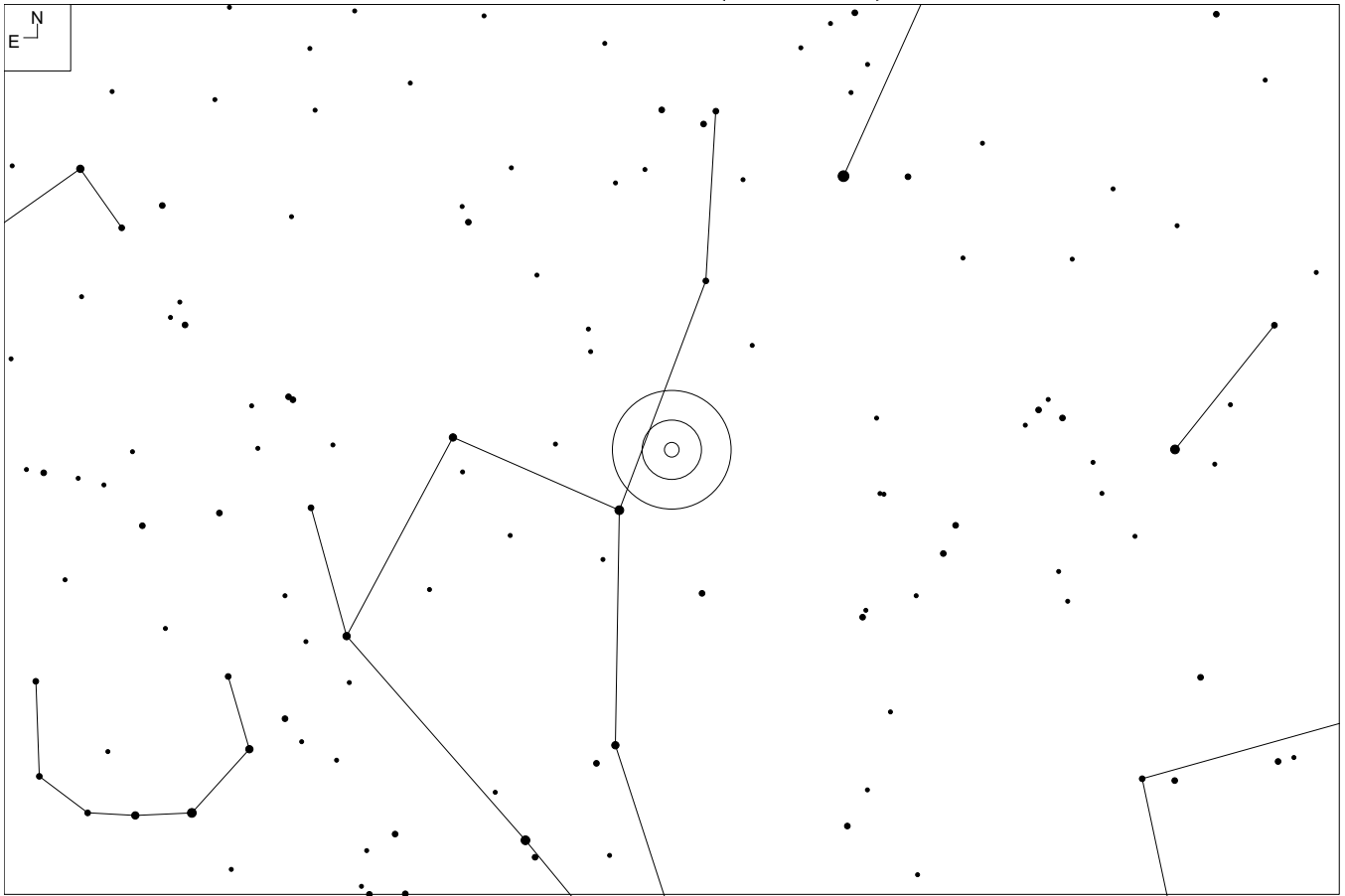


NGC 5490 (Boötes)

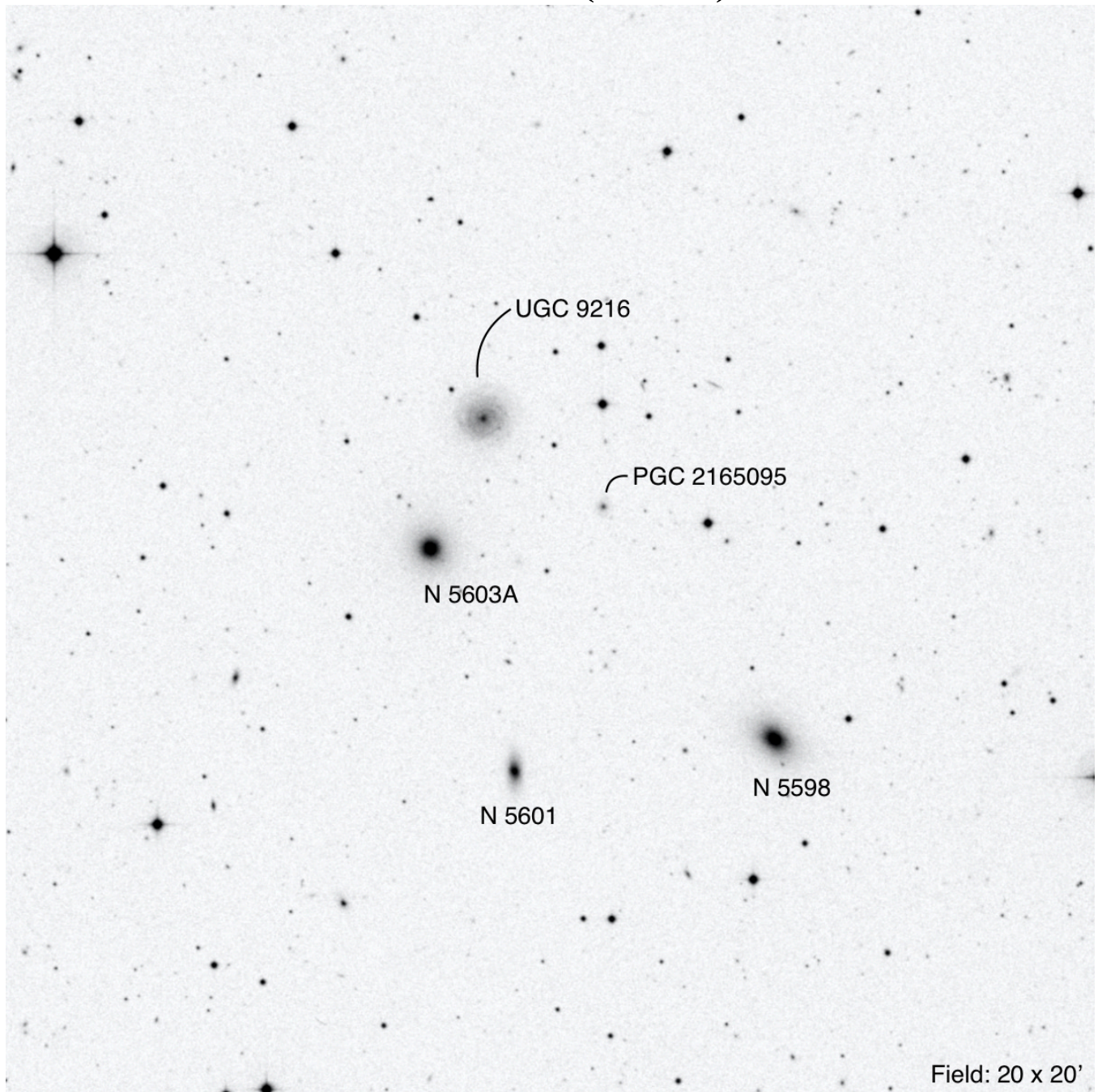


RA	Dec	Mag ₁	# of galaxies	iDSA
14 09 57.3	+17 32 44	12.1	7	44

NGC 5603 (Boötes)

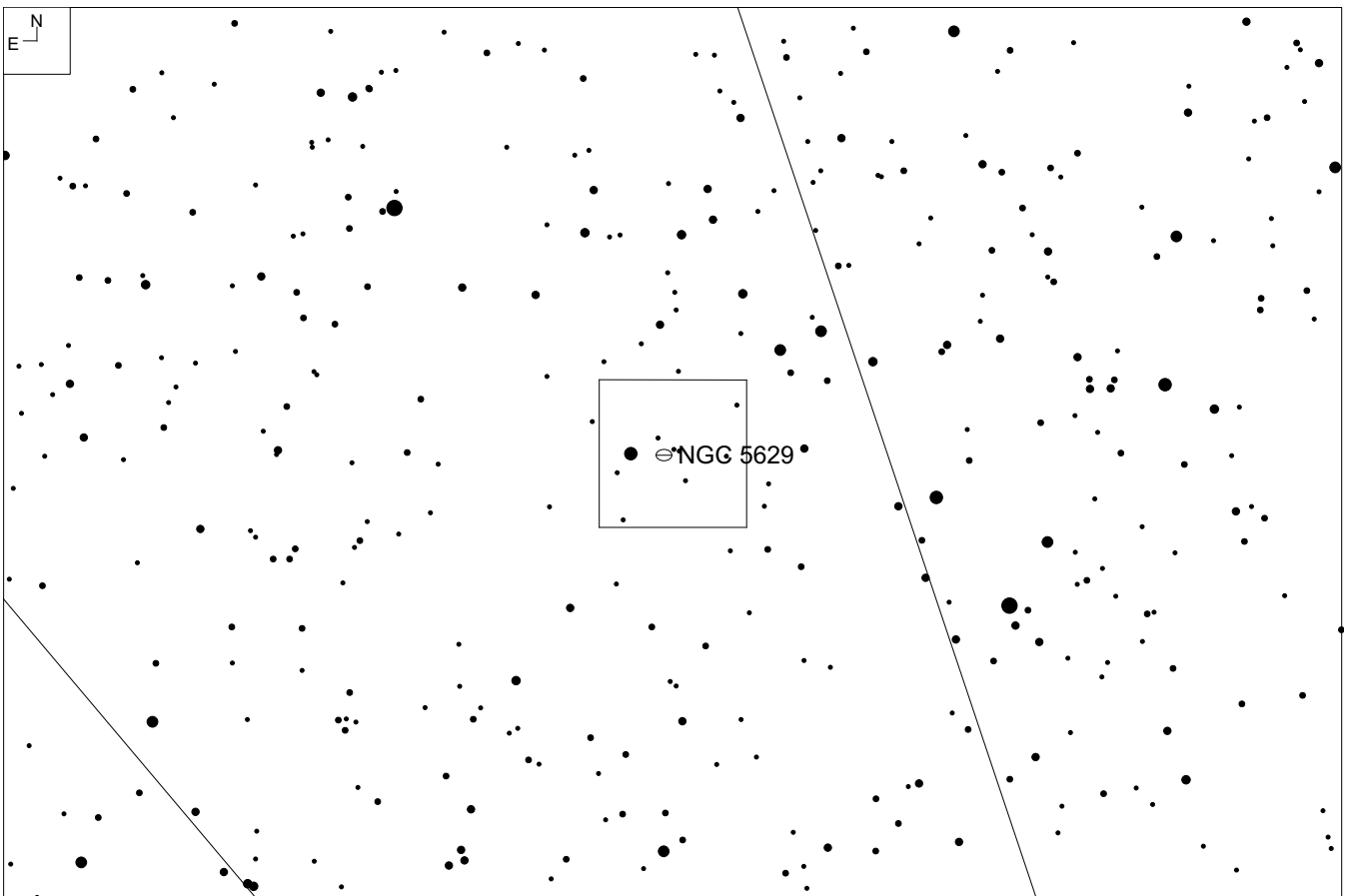
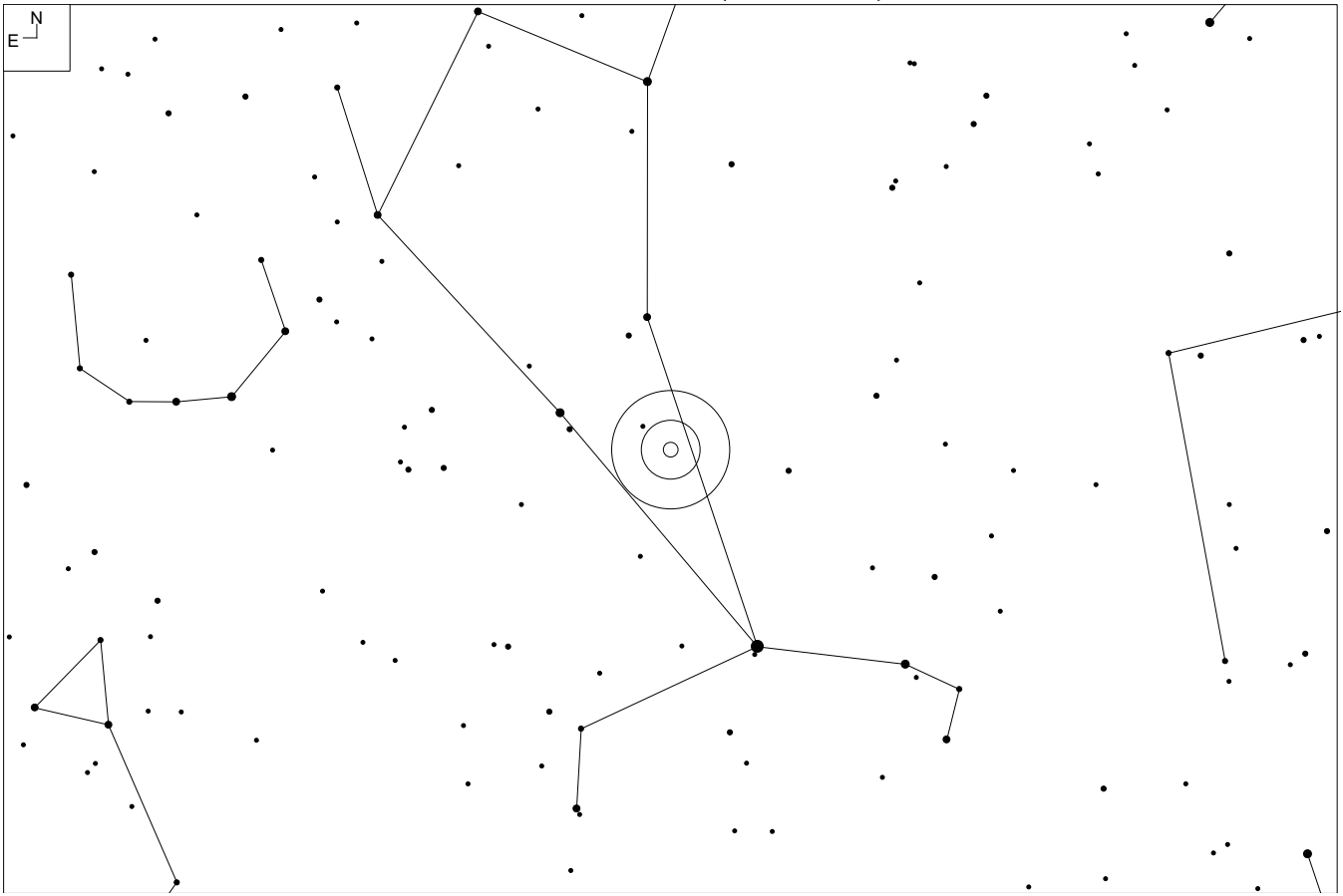


NGC 5603 (Boötes)

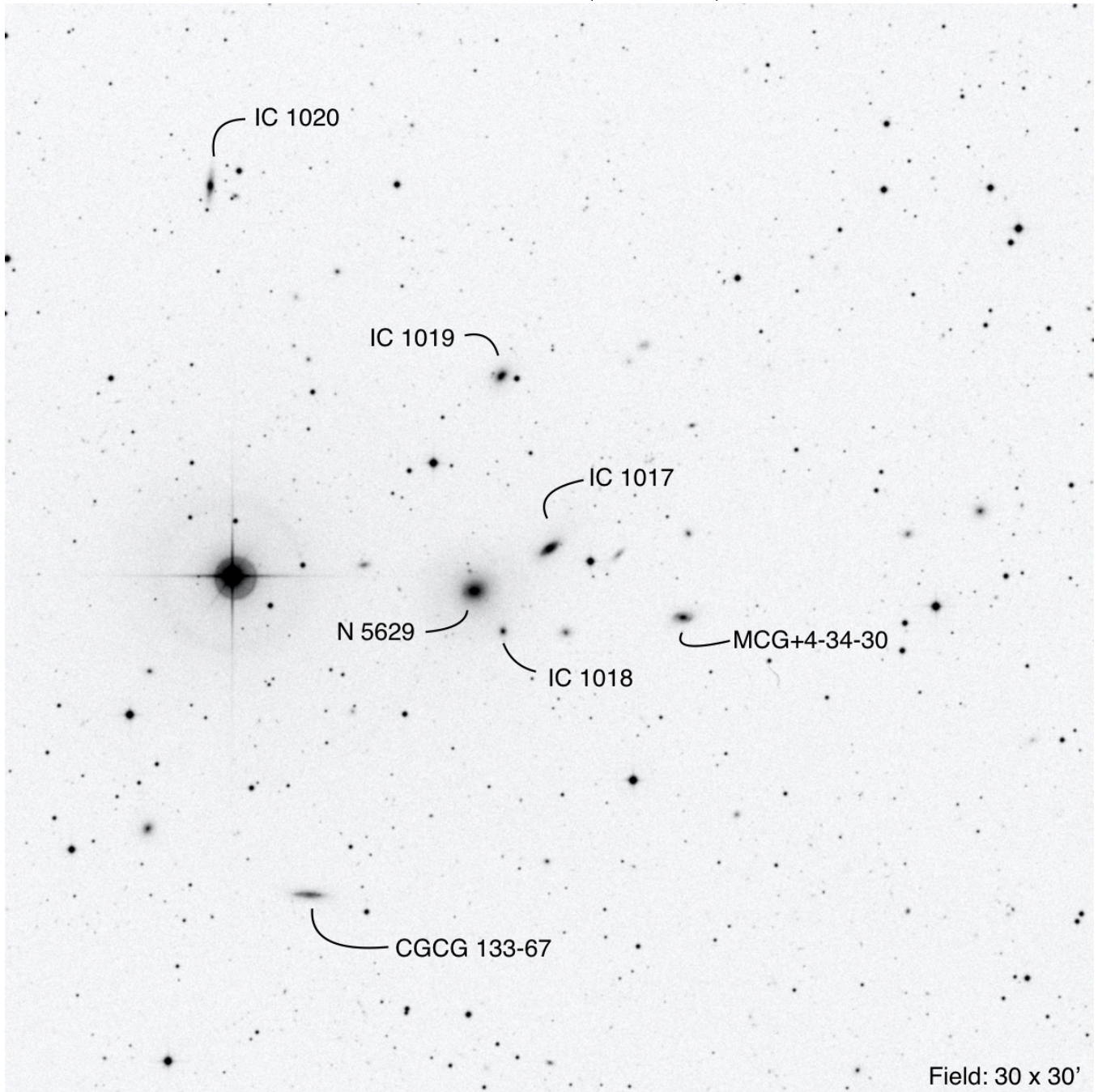


RA	Dec	Mag ₁	# of galaxies	iDSA
14 22 50.0	+40 22 39	14.0	4	20

NGC 5629 (Boötes)



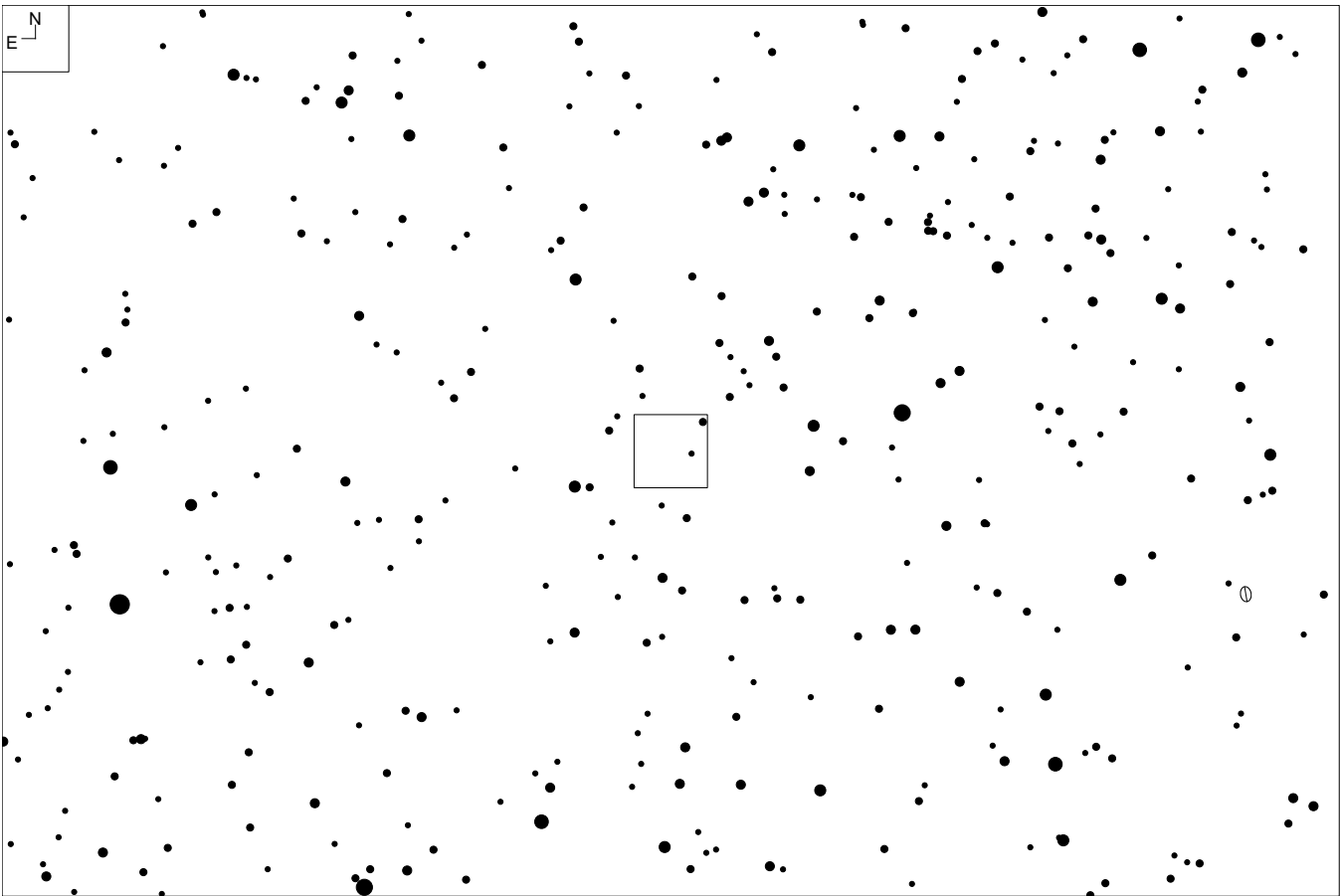
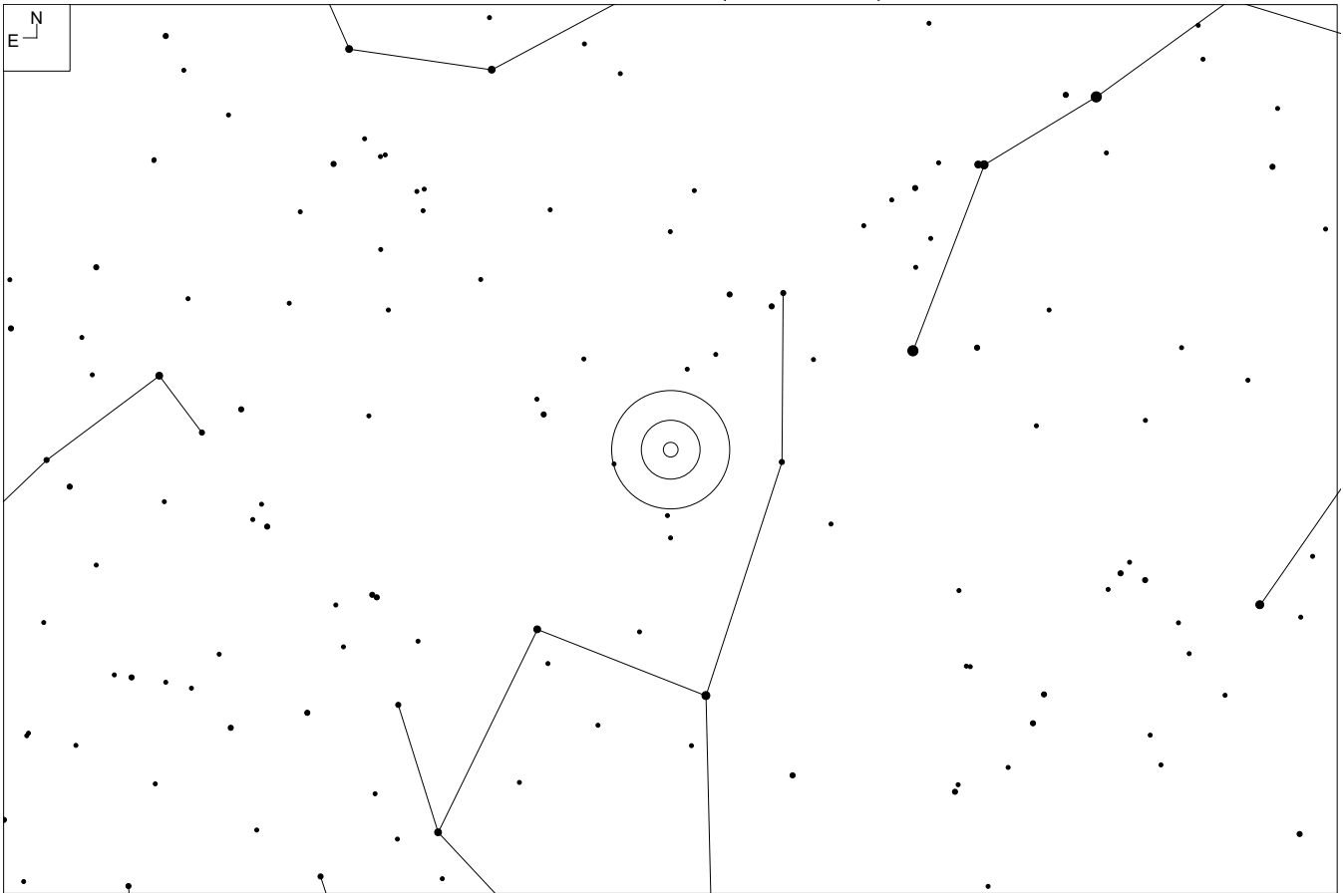
NGC 5629 (Boötes)



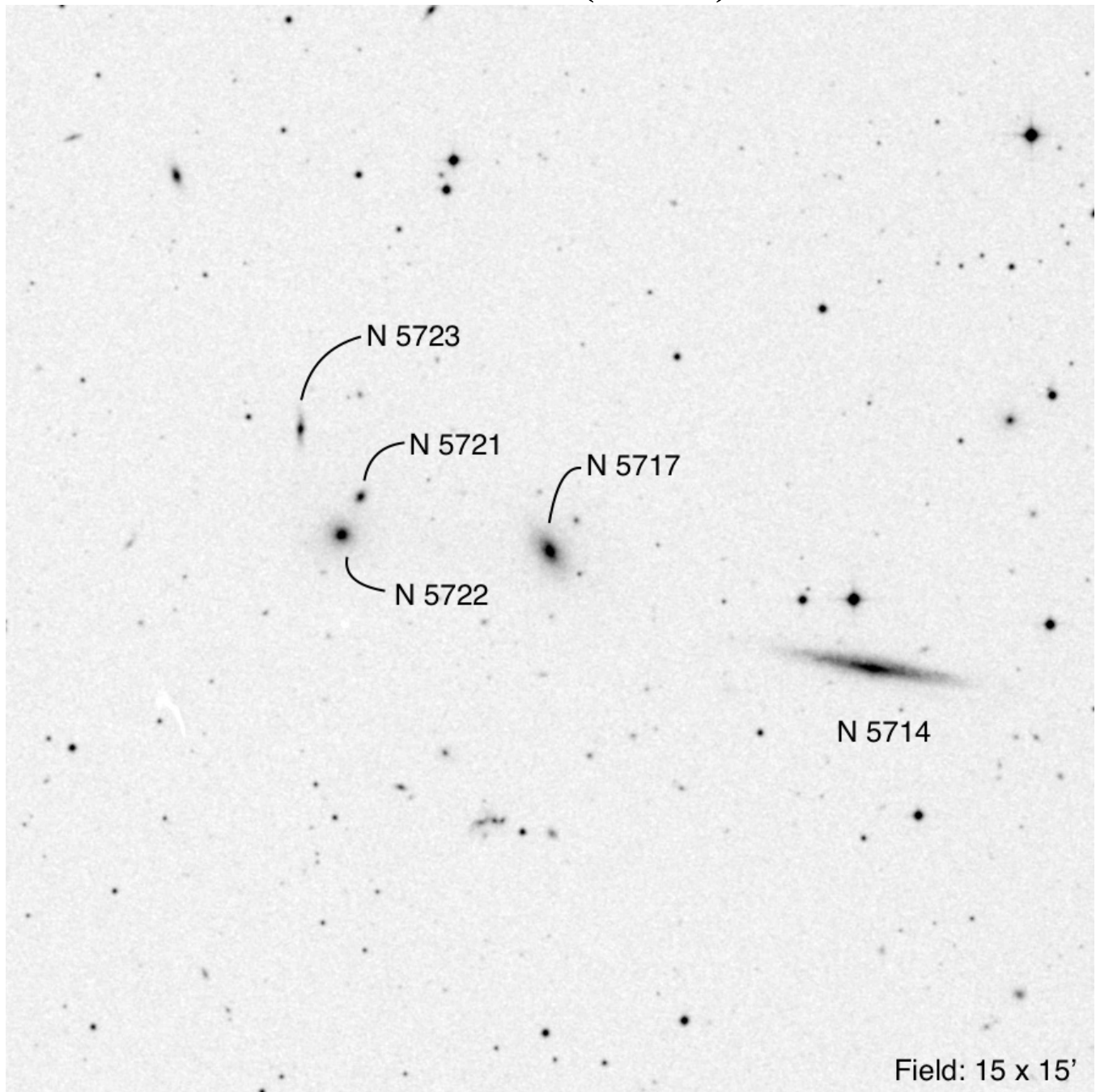
Field: 30 x 30'

Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 3	14 28 16.3	+25 50 55	13.0	7	32

NGC 5714 (Boötes)

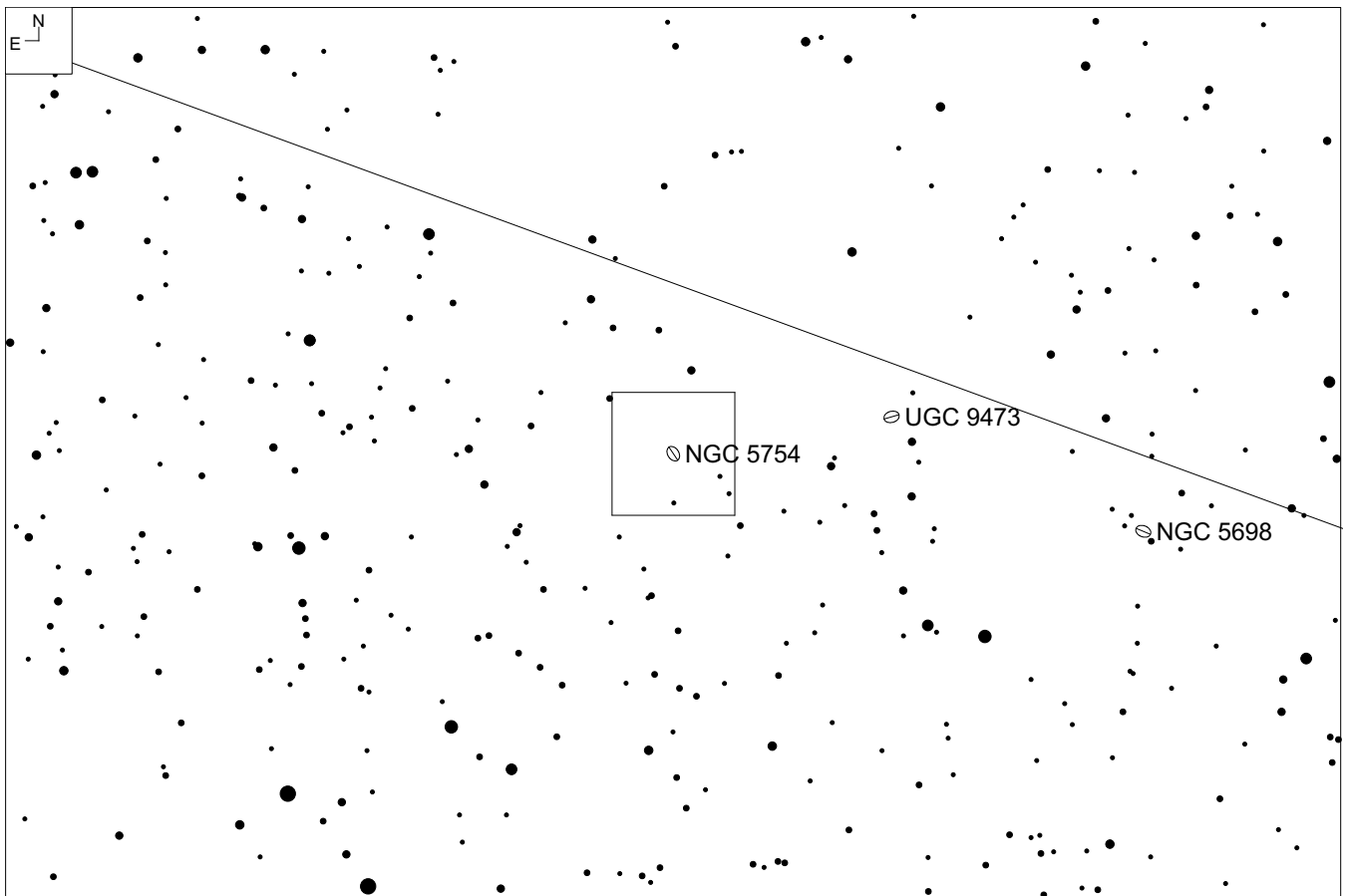
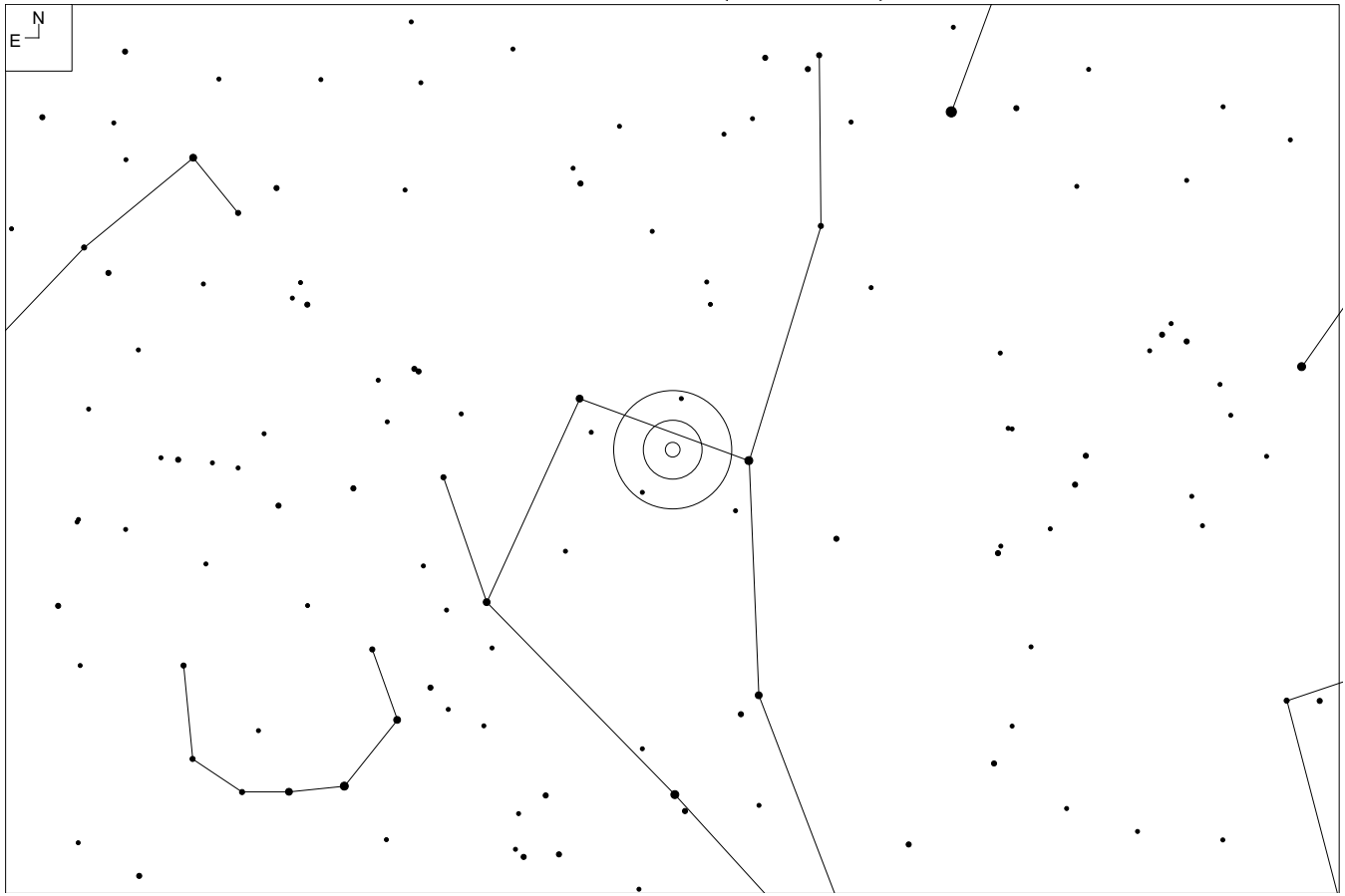


NGC 5714 (Boötes)

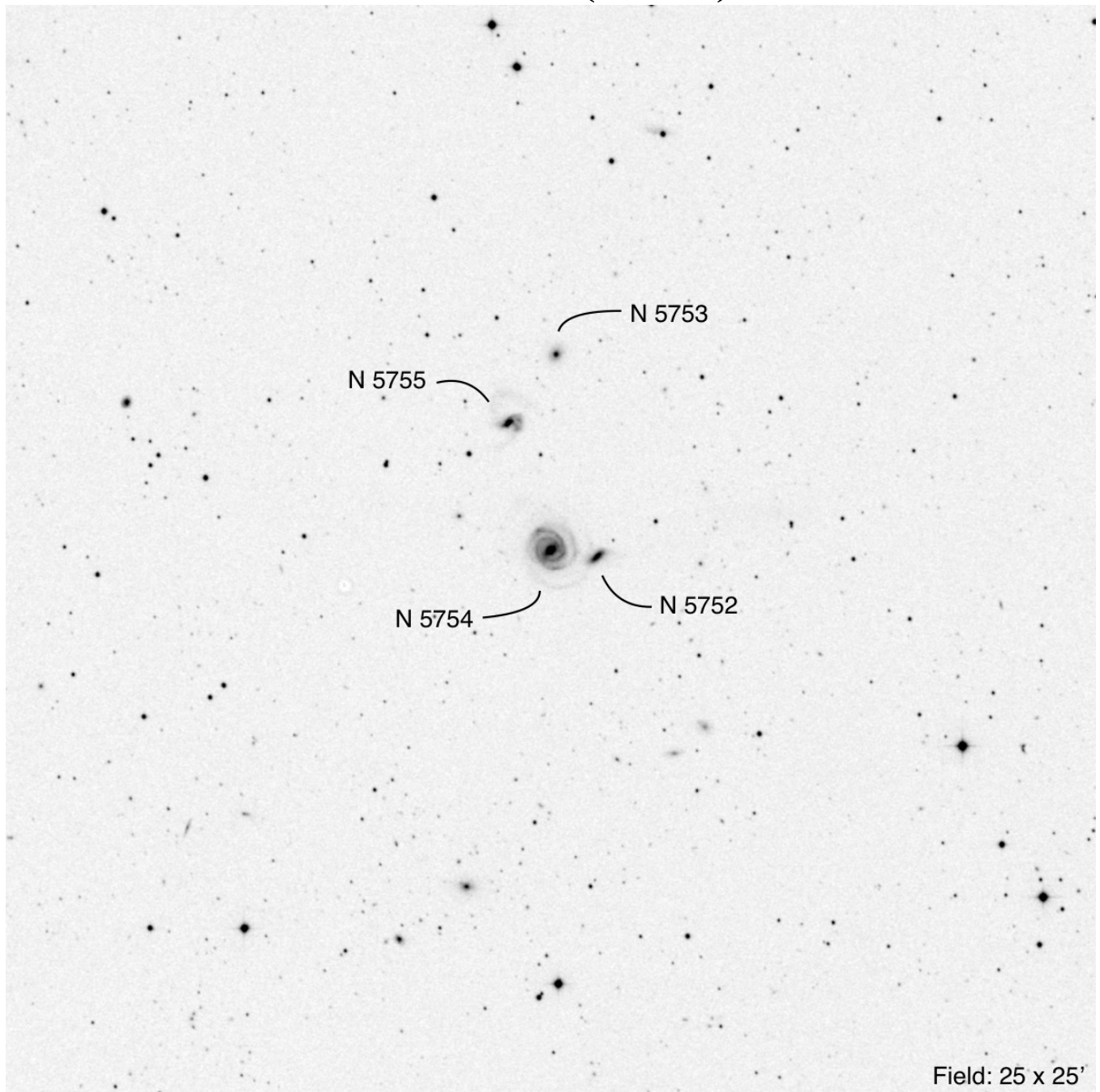


RA	Dec	Mag ₁	# of galaxies	iDSA
14 38 11.4	+46 38 19	13.4	5	20

NGC 5754 (Boötes)

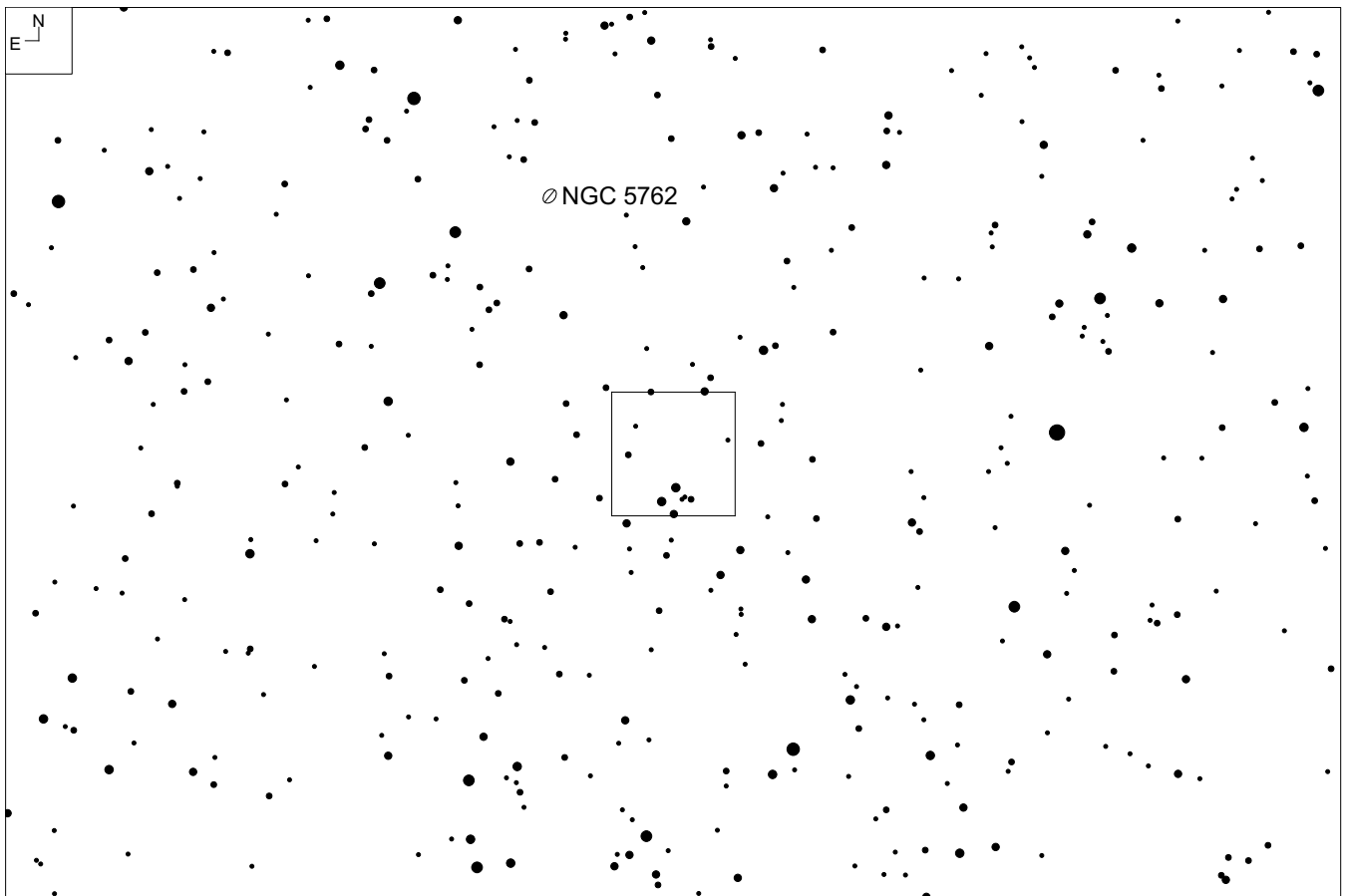
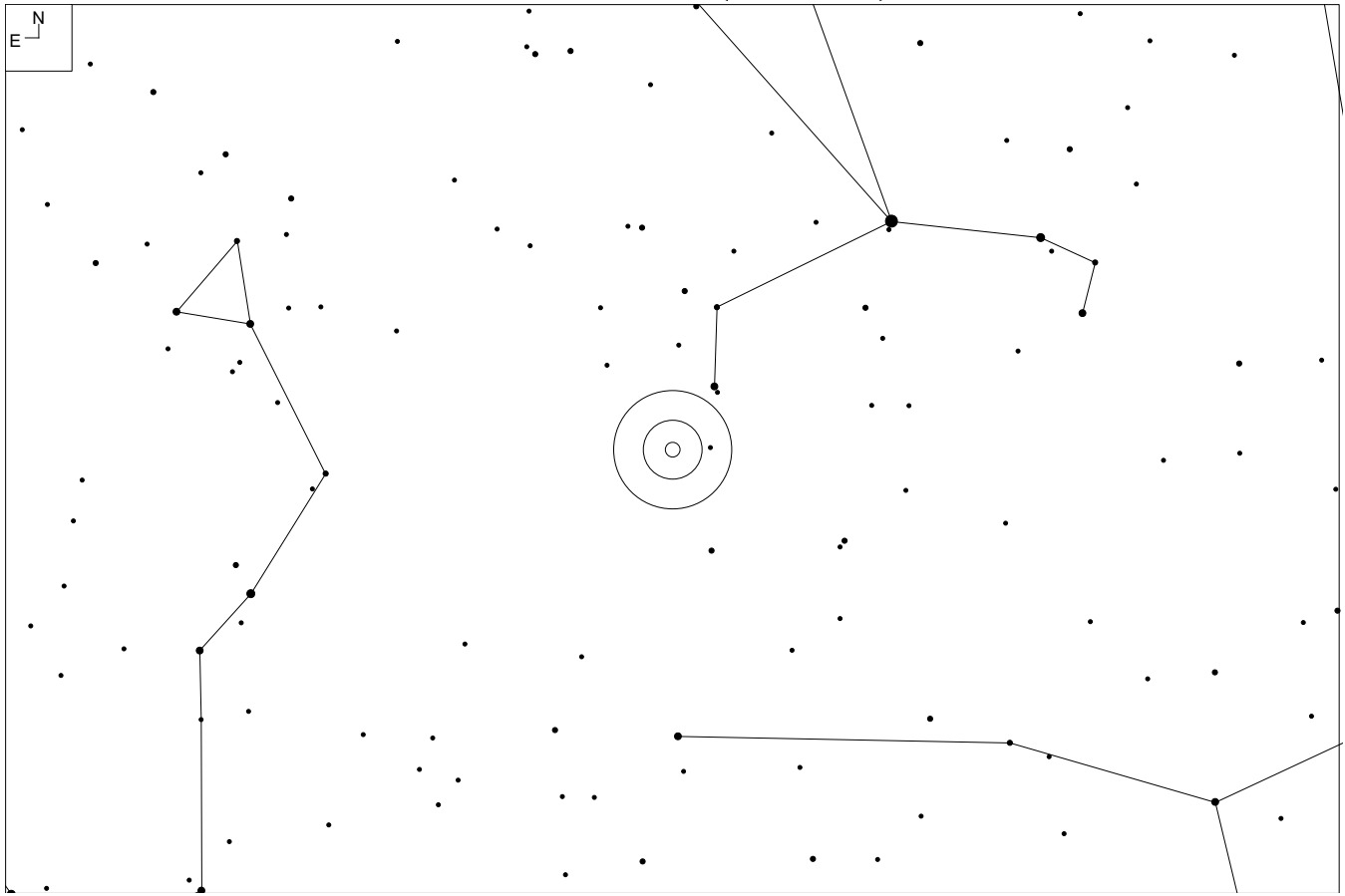


NGC 5754 (Boötes)

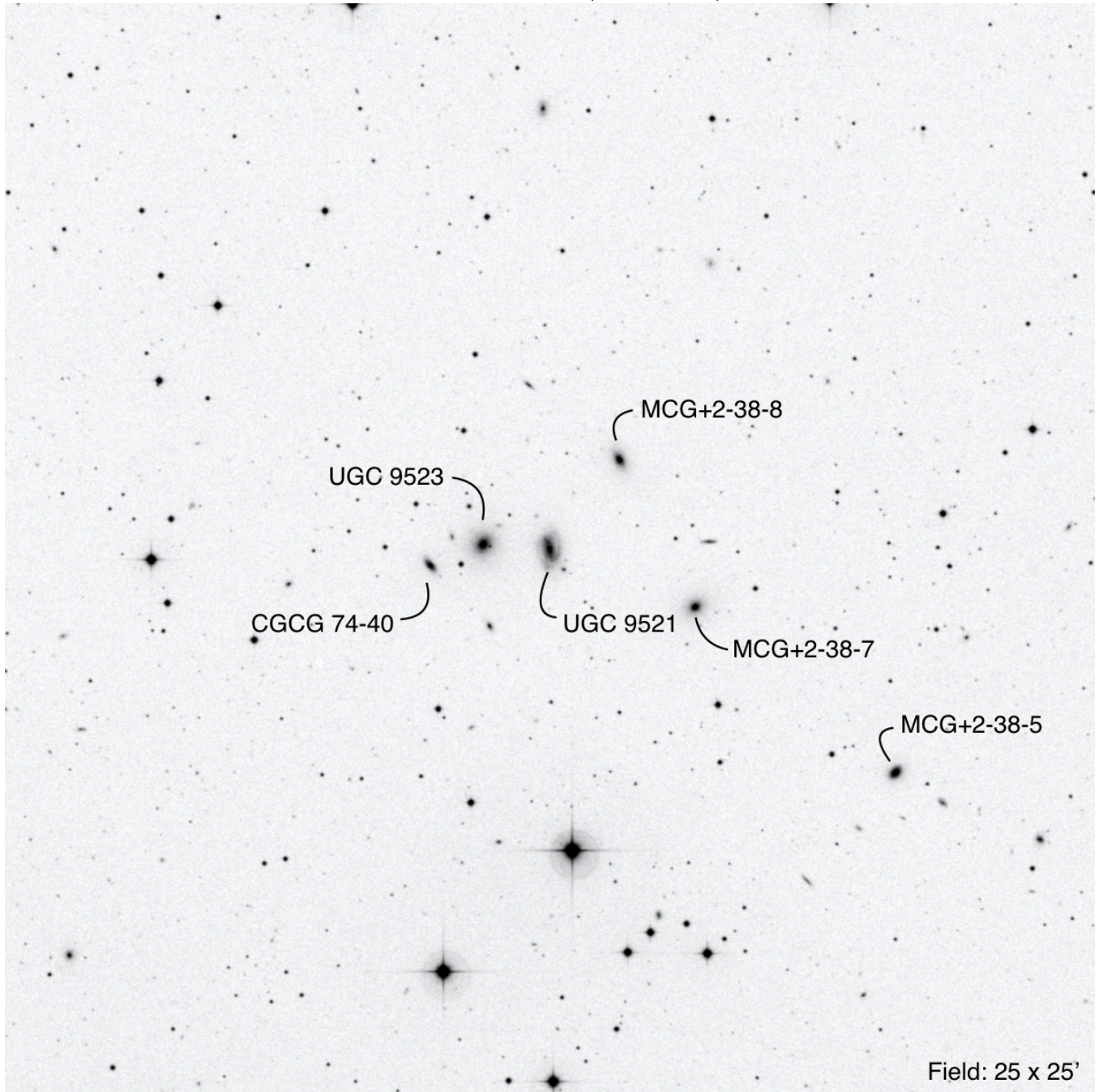


RA	Dec	Mag ₁	# of galaxies	iDSA
14 45 19.7	+38 43 57	13.1	4	20, 32

UGC 9521 (Boötes)

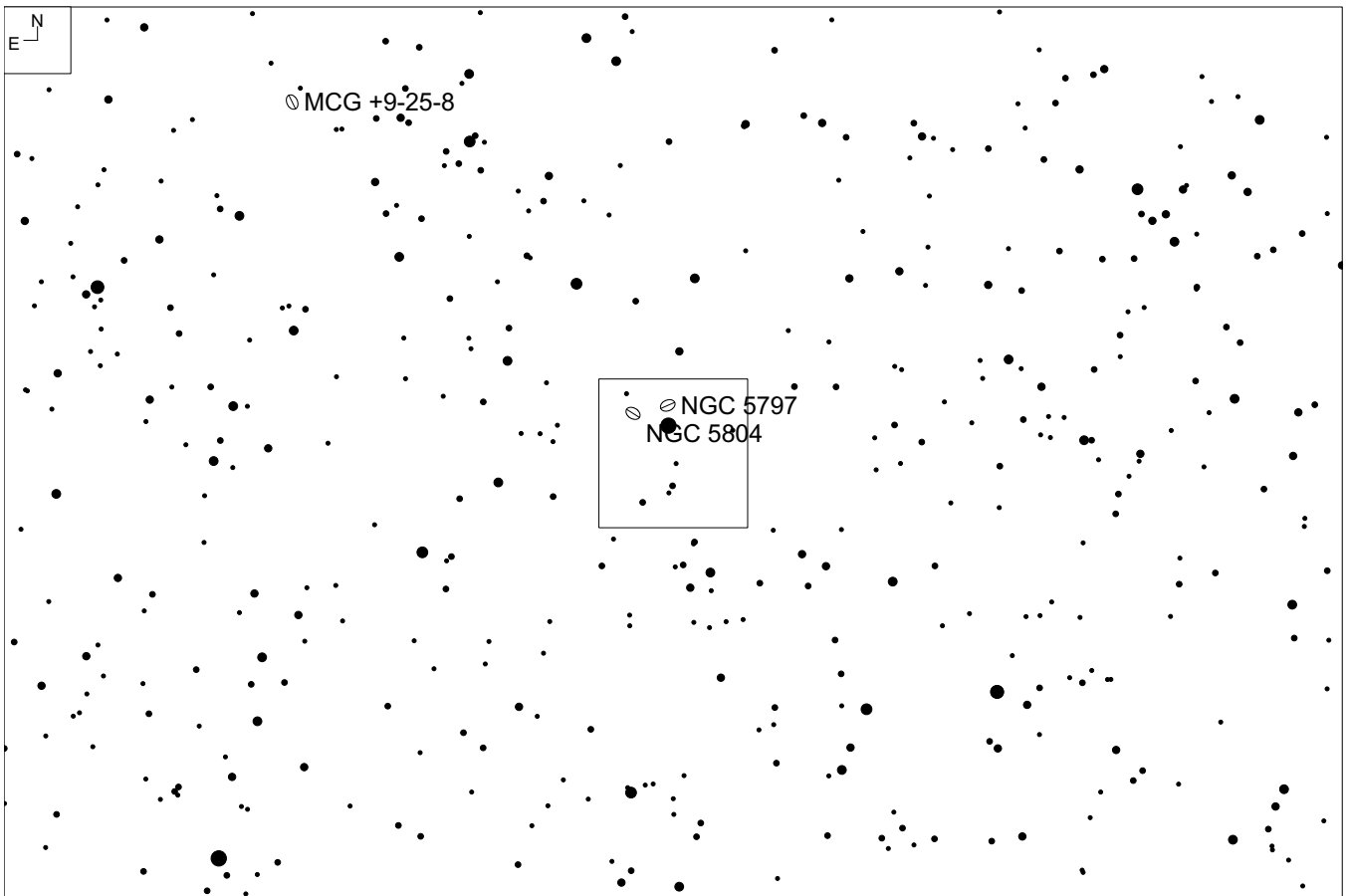
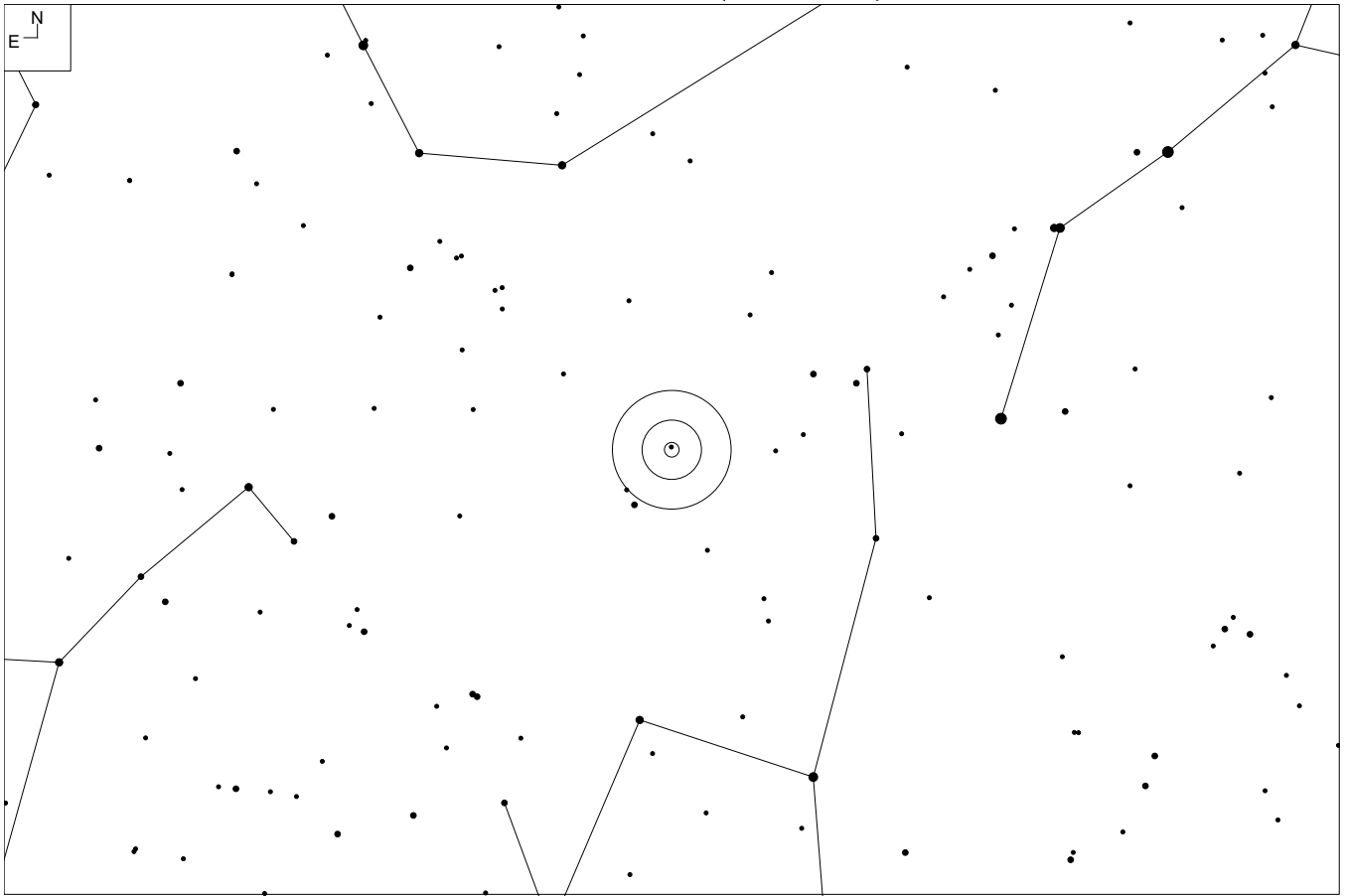


UGC 9521 (Boötes)

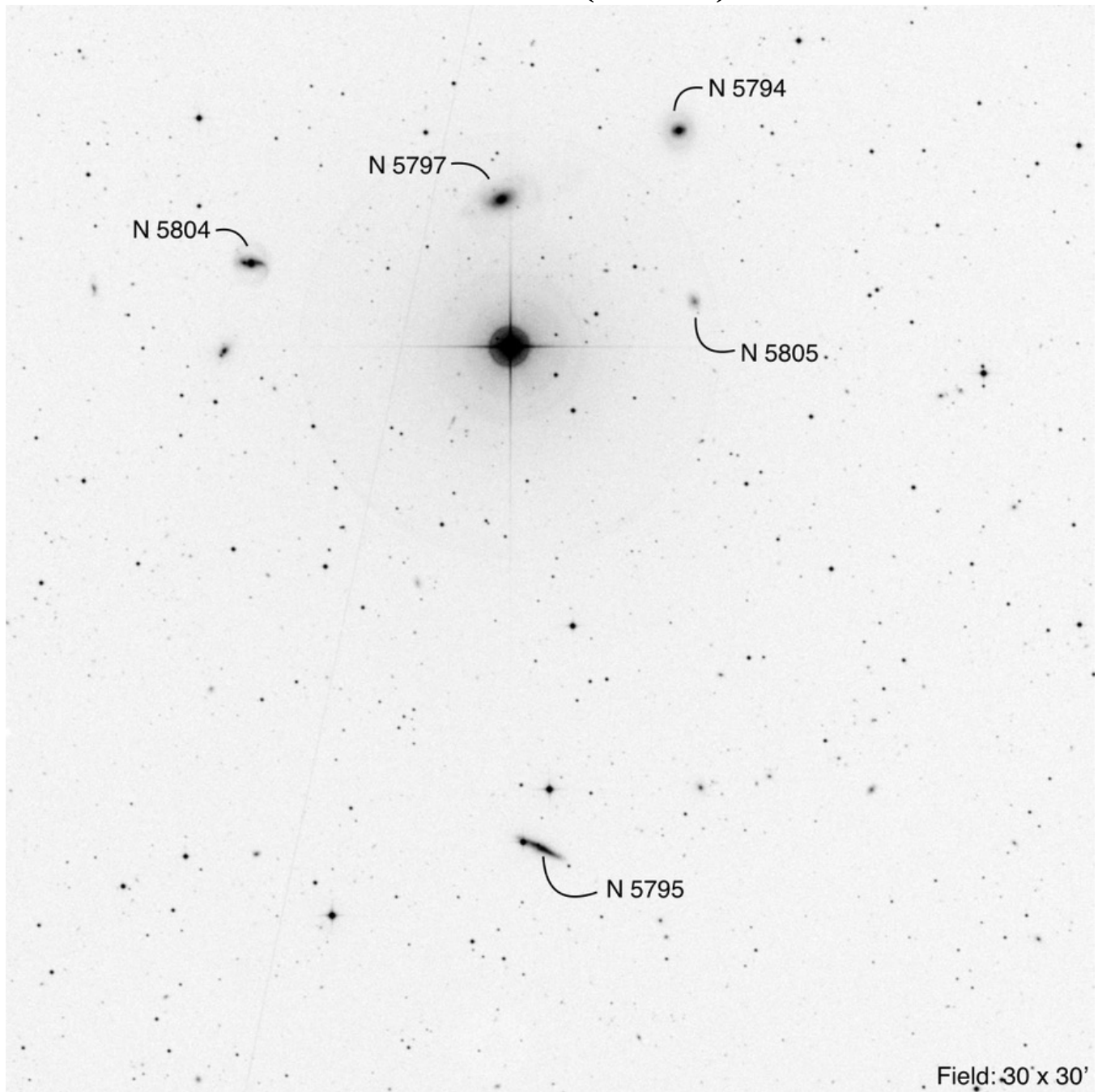


RA	Dec	Mag ₁	# of galaxies	iDSA
14 47 00.1	+11 35 31	14.4	6	44

NGC 5797 (Boötes)

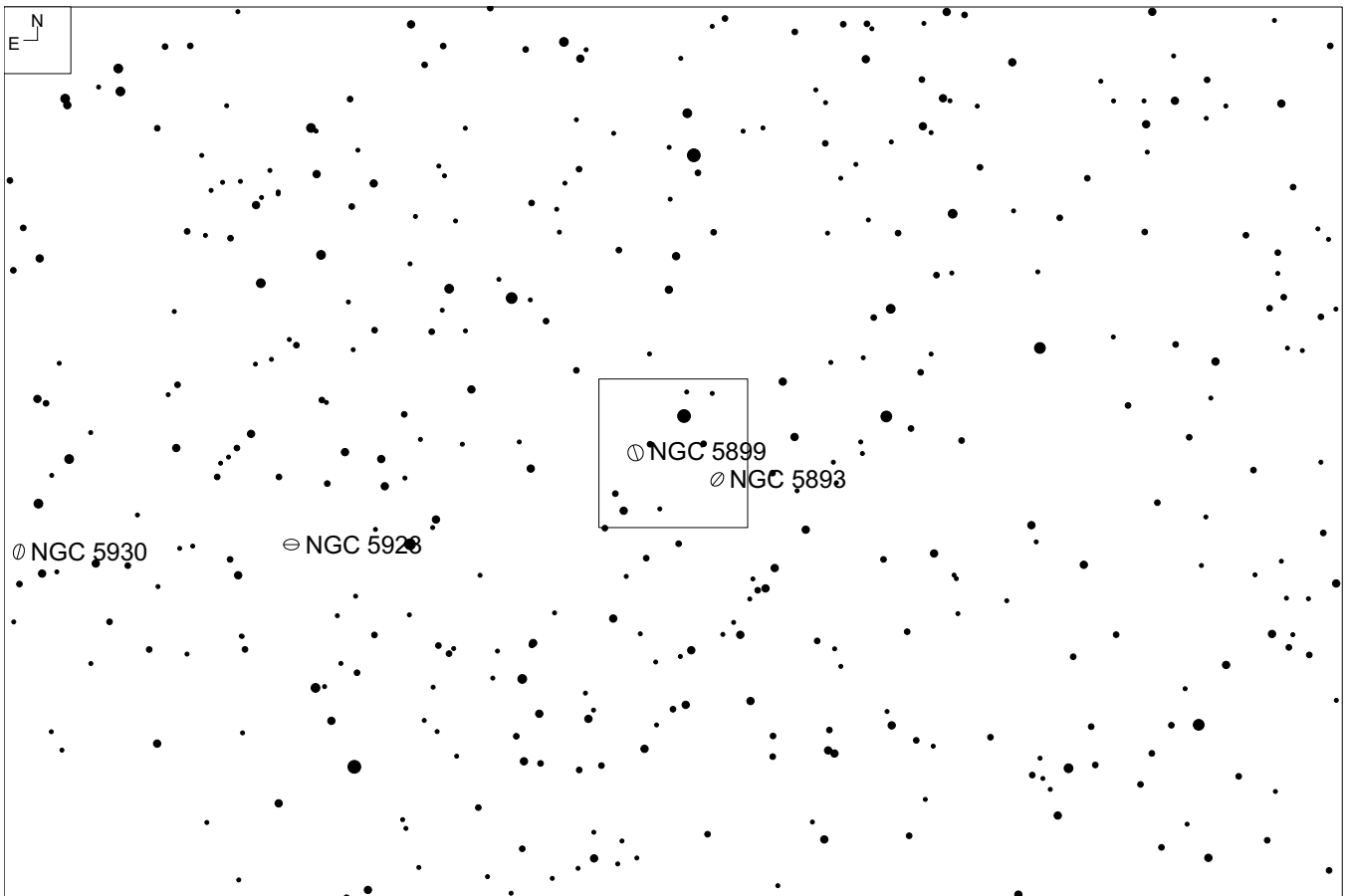
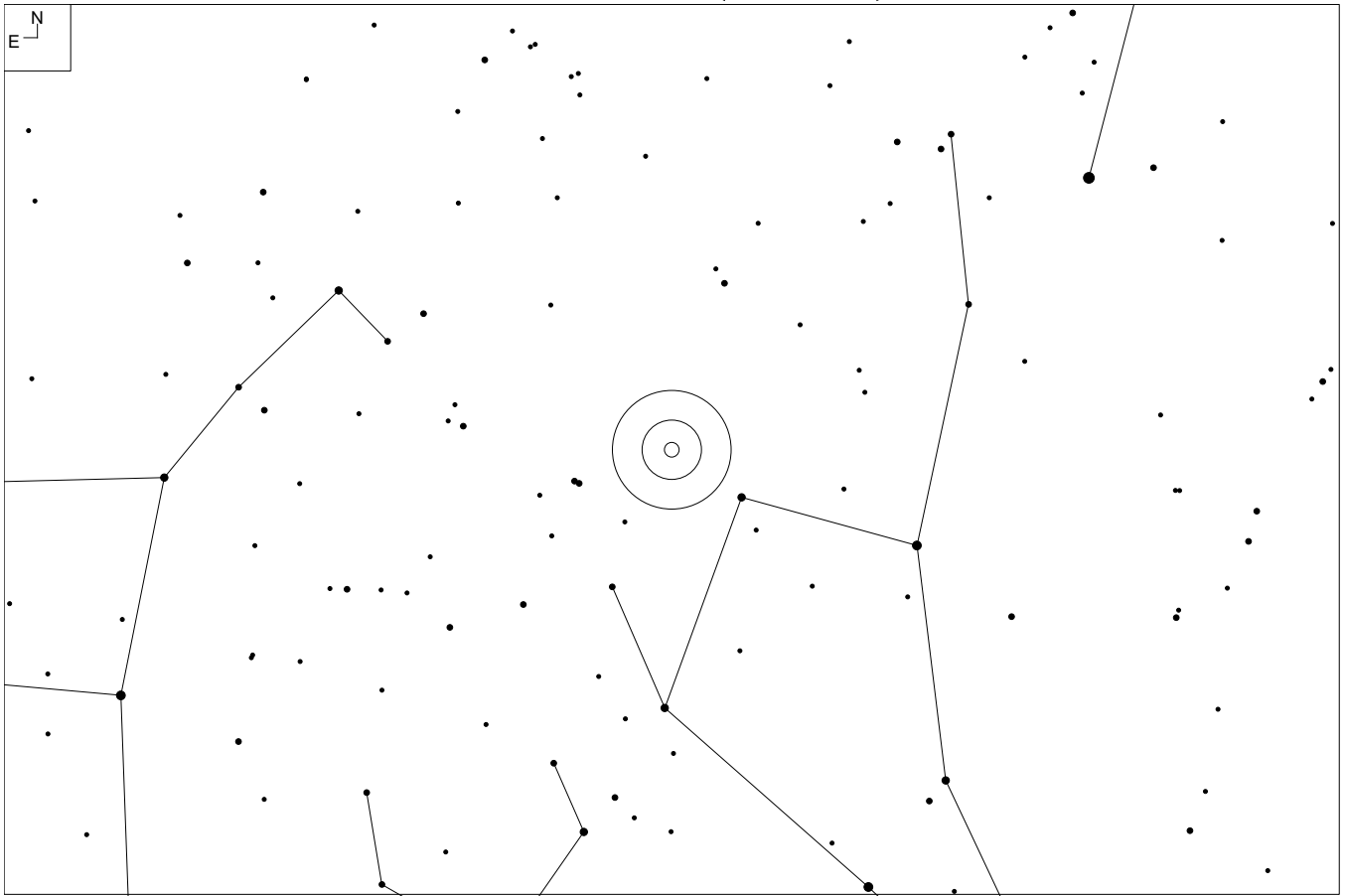


NGC 5797 (Boötes)

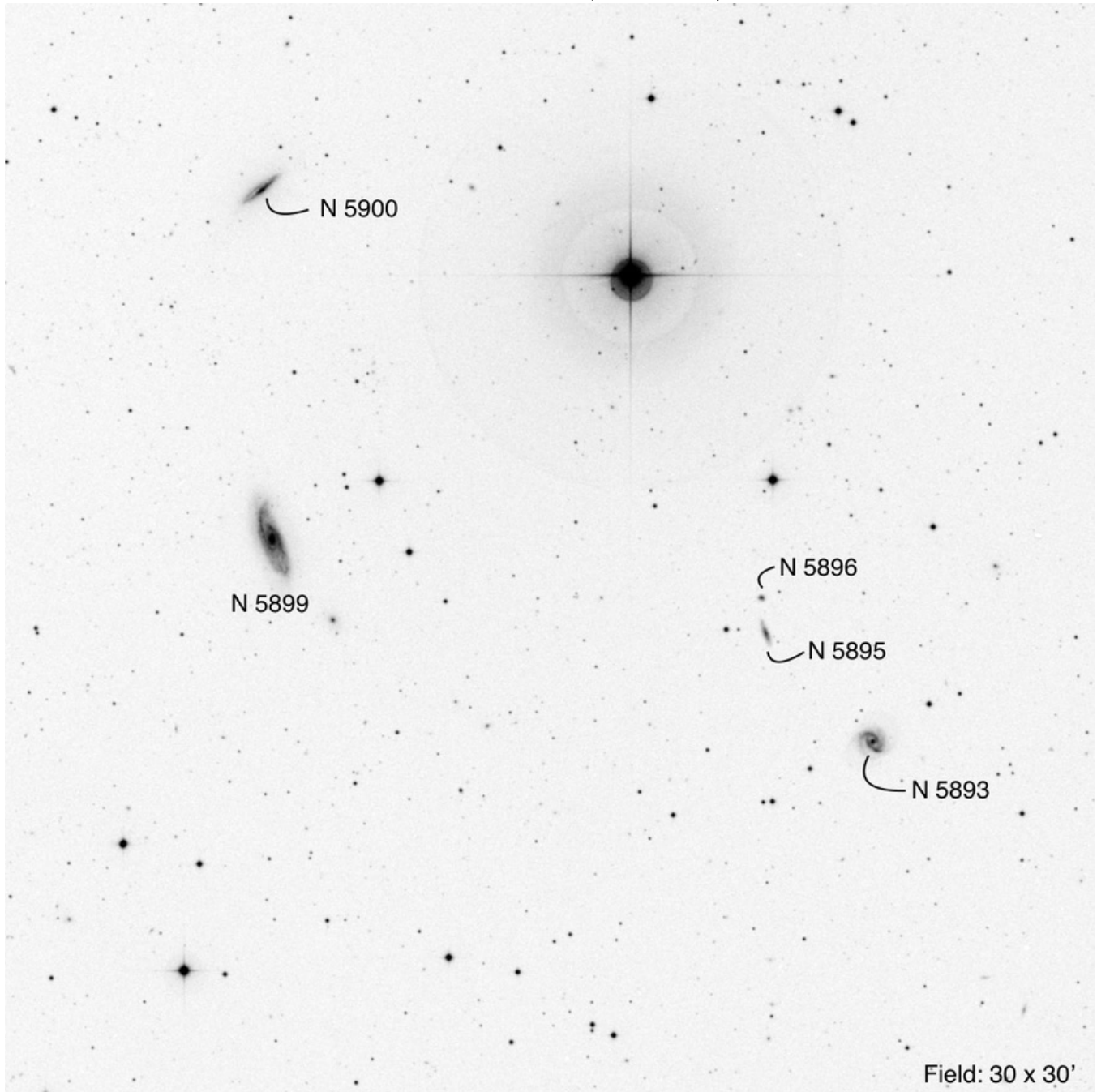


RA	Dec	Mag ₁	# of galaxies	iDSA
14 56 16.9	+49 32 07	13.6	5	10, 11, 20

NGC 5899 (Boötes)

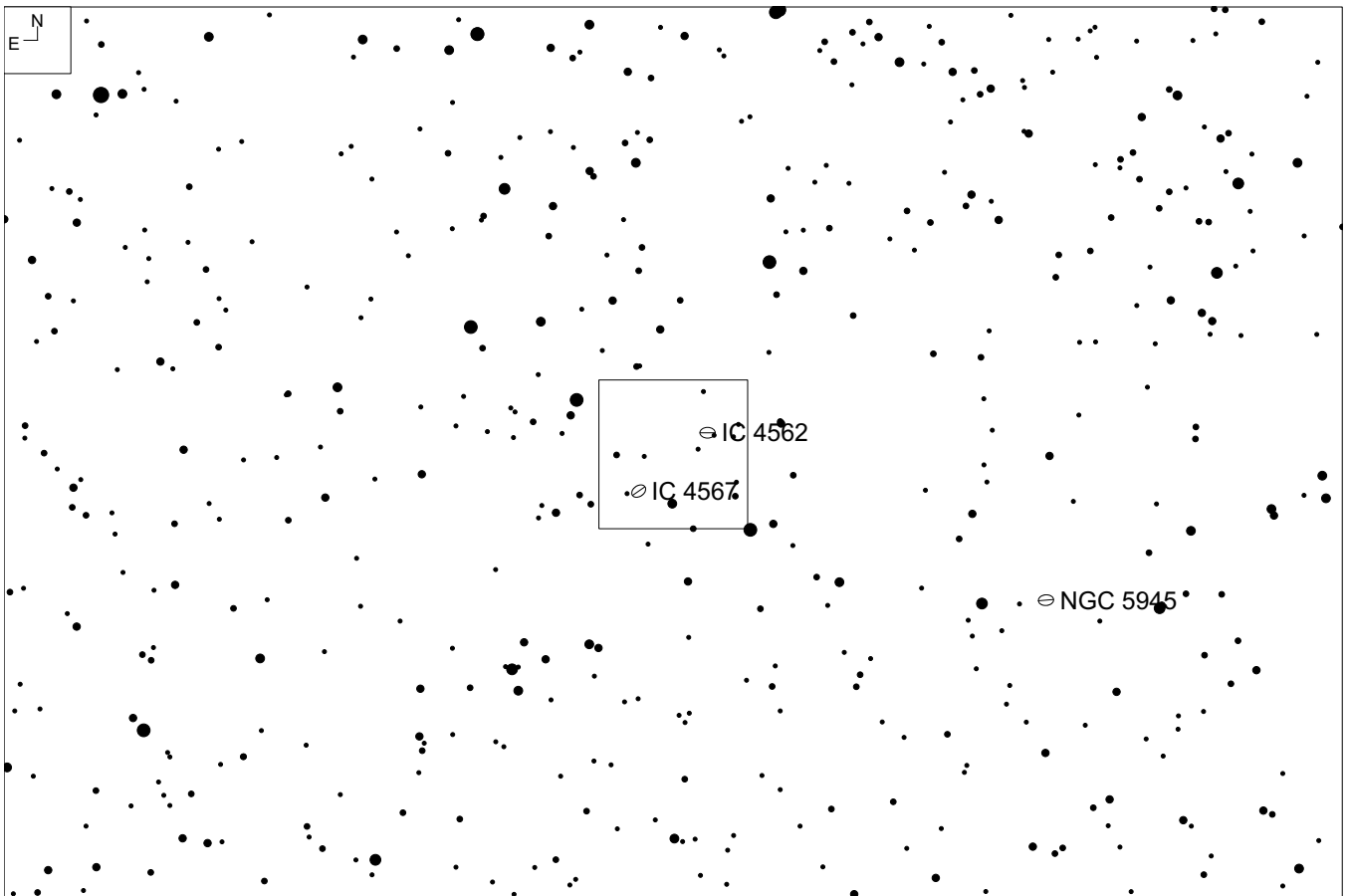
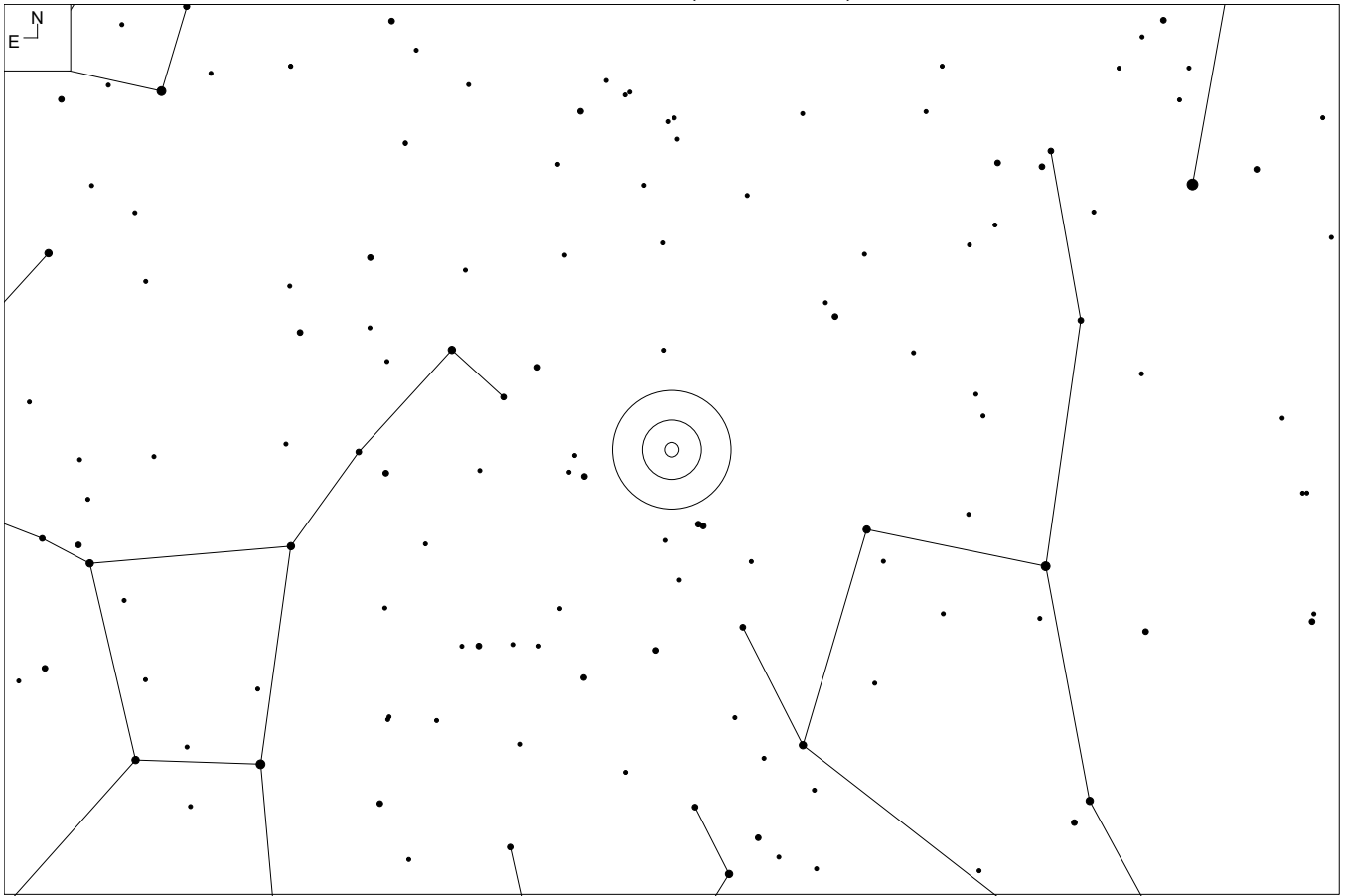


NGC 5899 (Boötes)

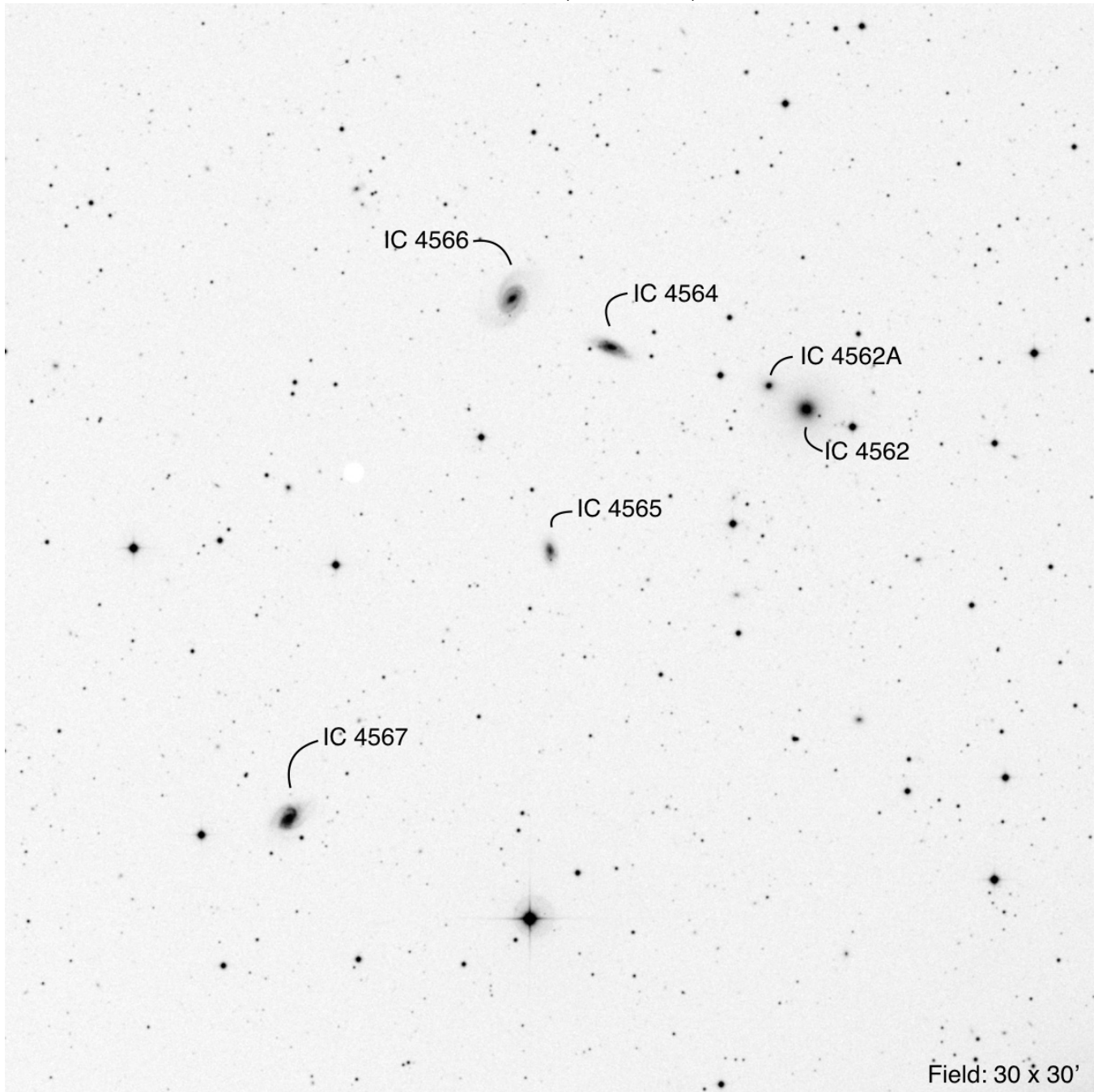


RA	Dec	Mag ₁	# of galaxies	iDSA
15 14 22.0	+42 02 46	13.1	5	20

IC 4562 (Boötes)

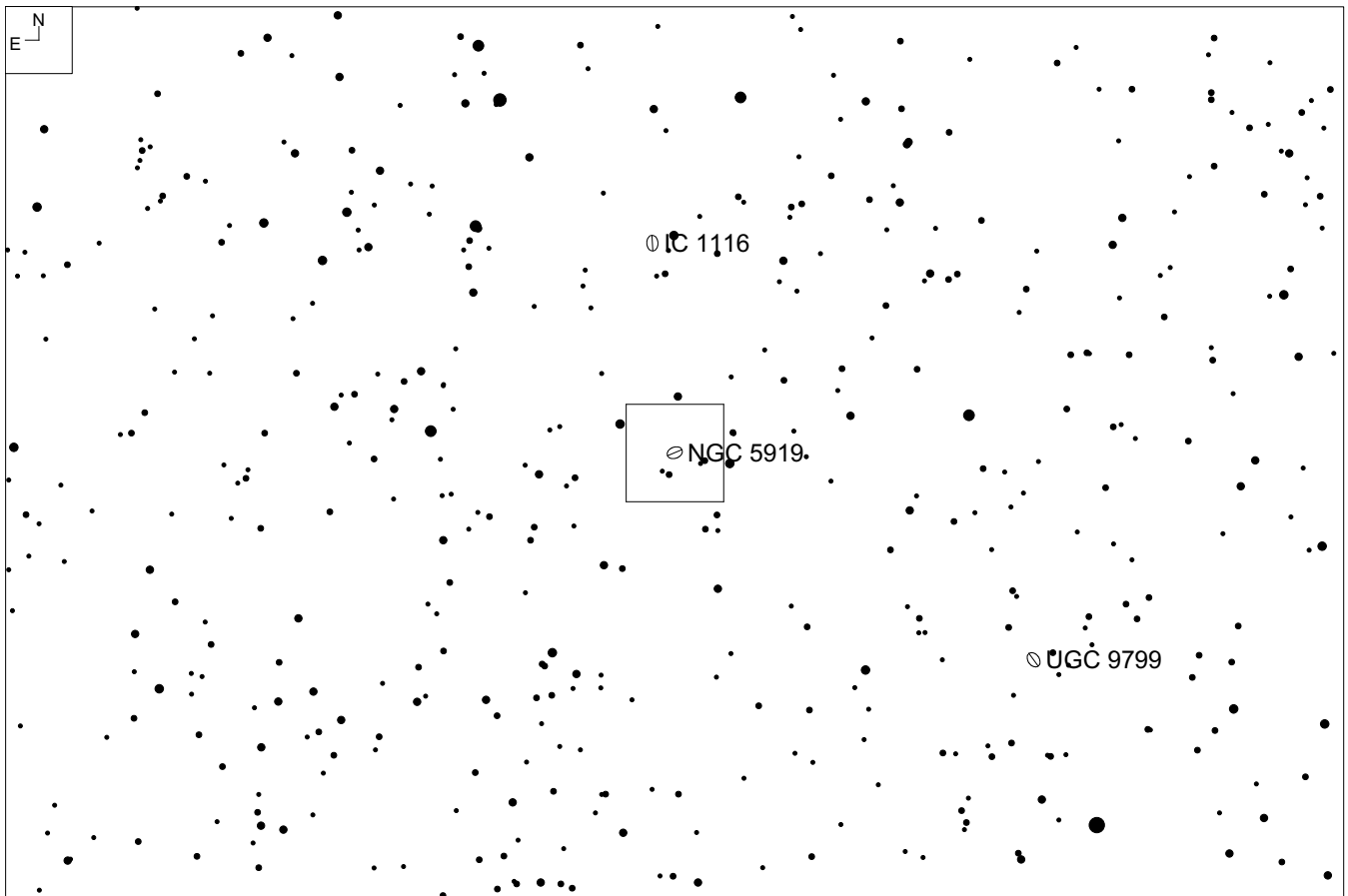
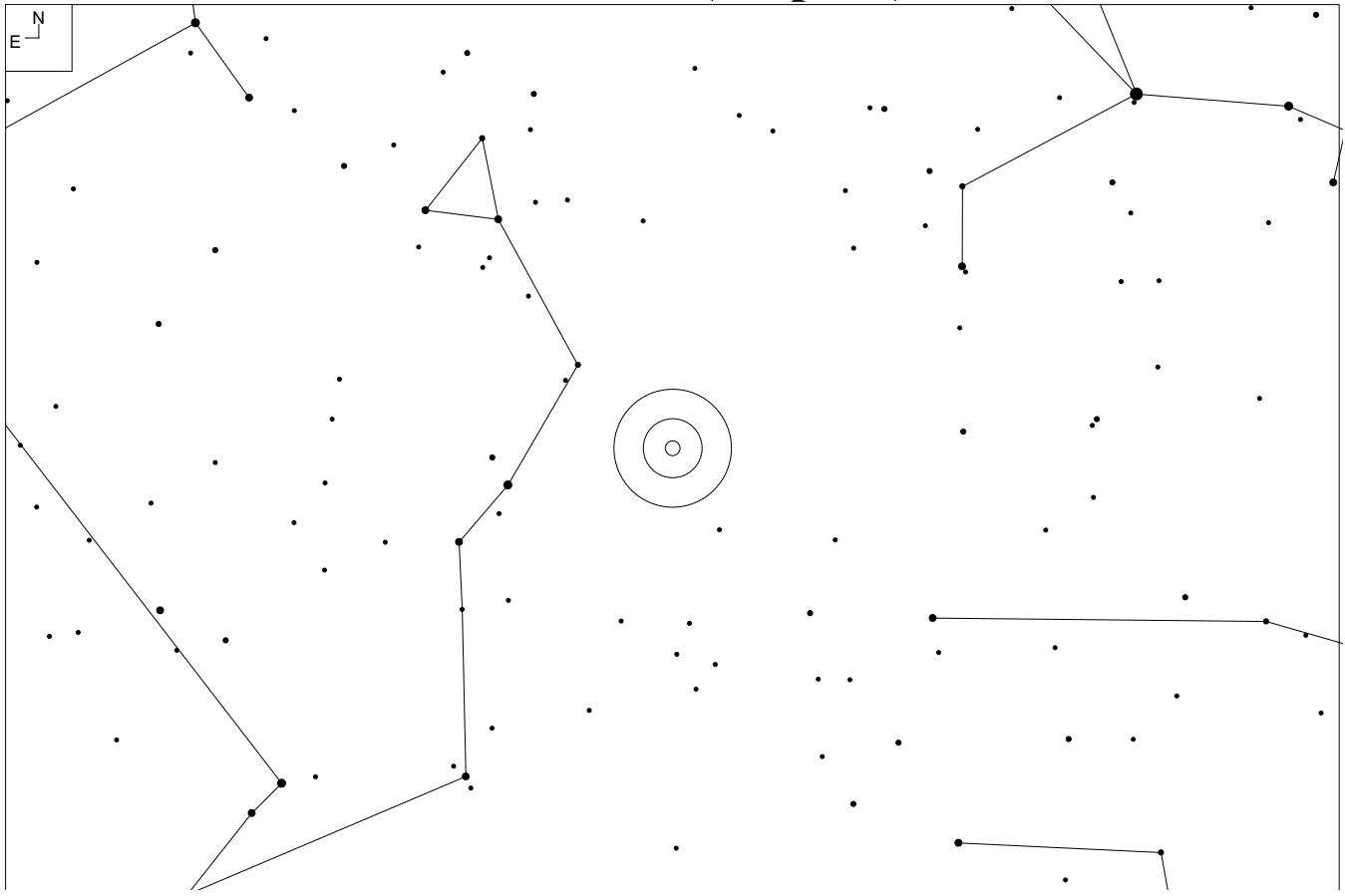


IC 4562 (Boötes)

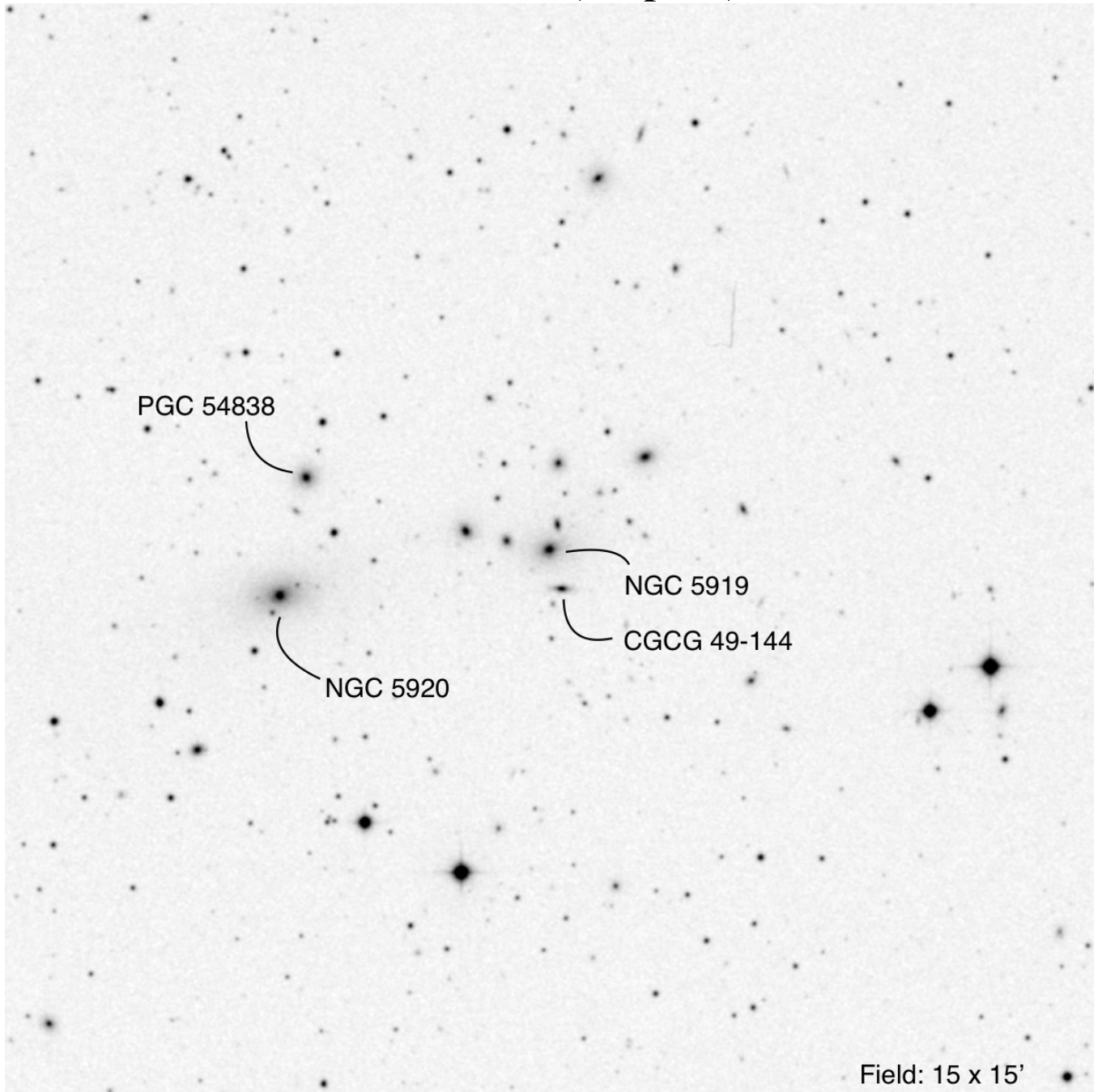


RA	Dec	Mag ₁	# of galaxies	iDSA
15 36 35.2	+43 25 33	13.8	6	20

NGC 5920 (Serpens)

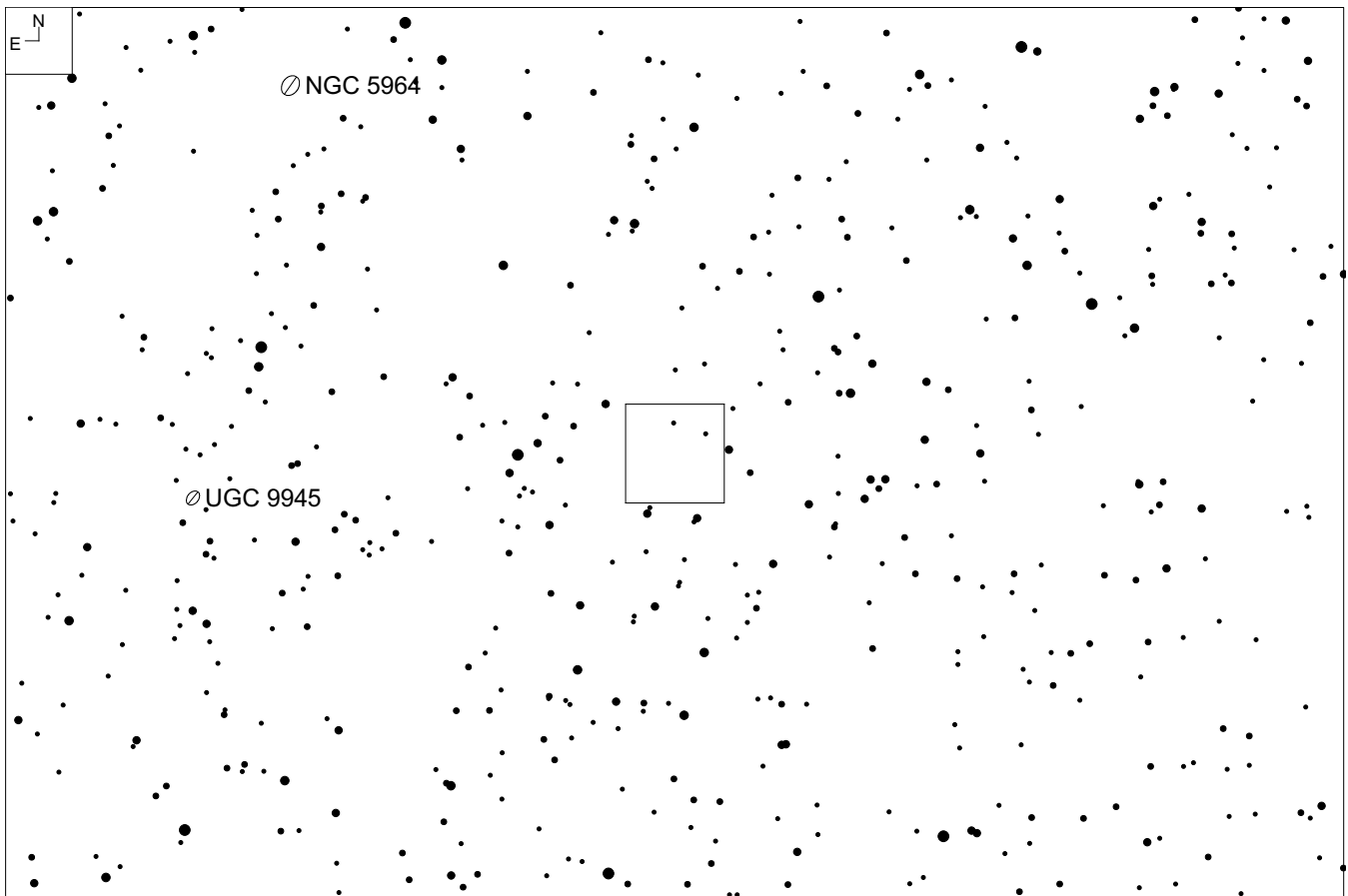
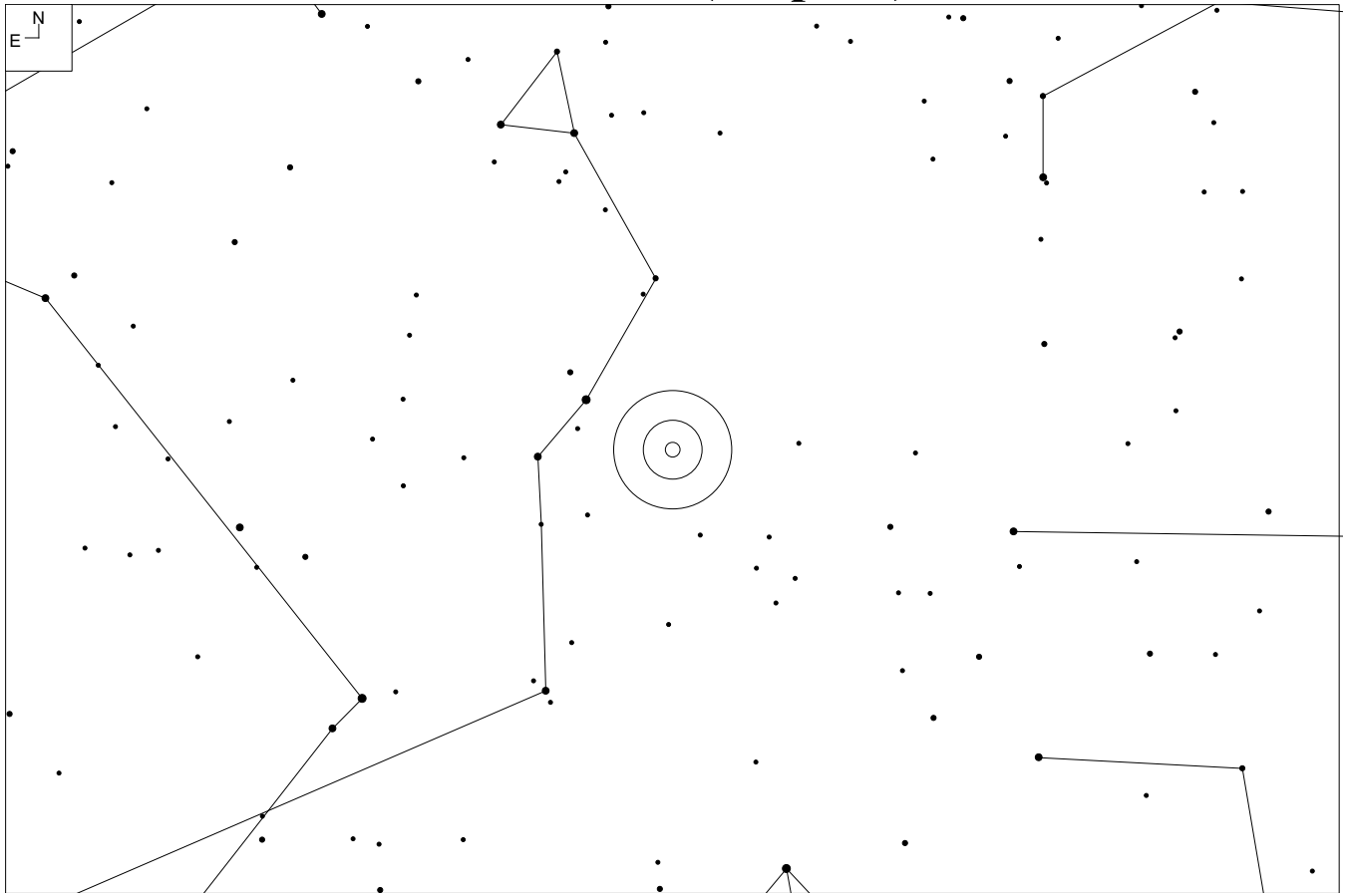


NGC 5920 (Serpens)

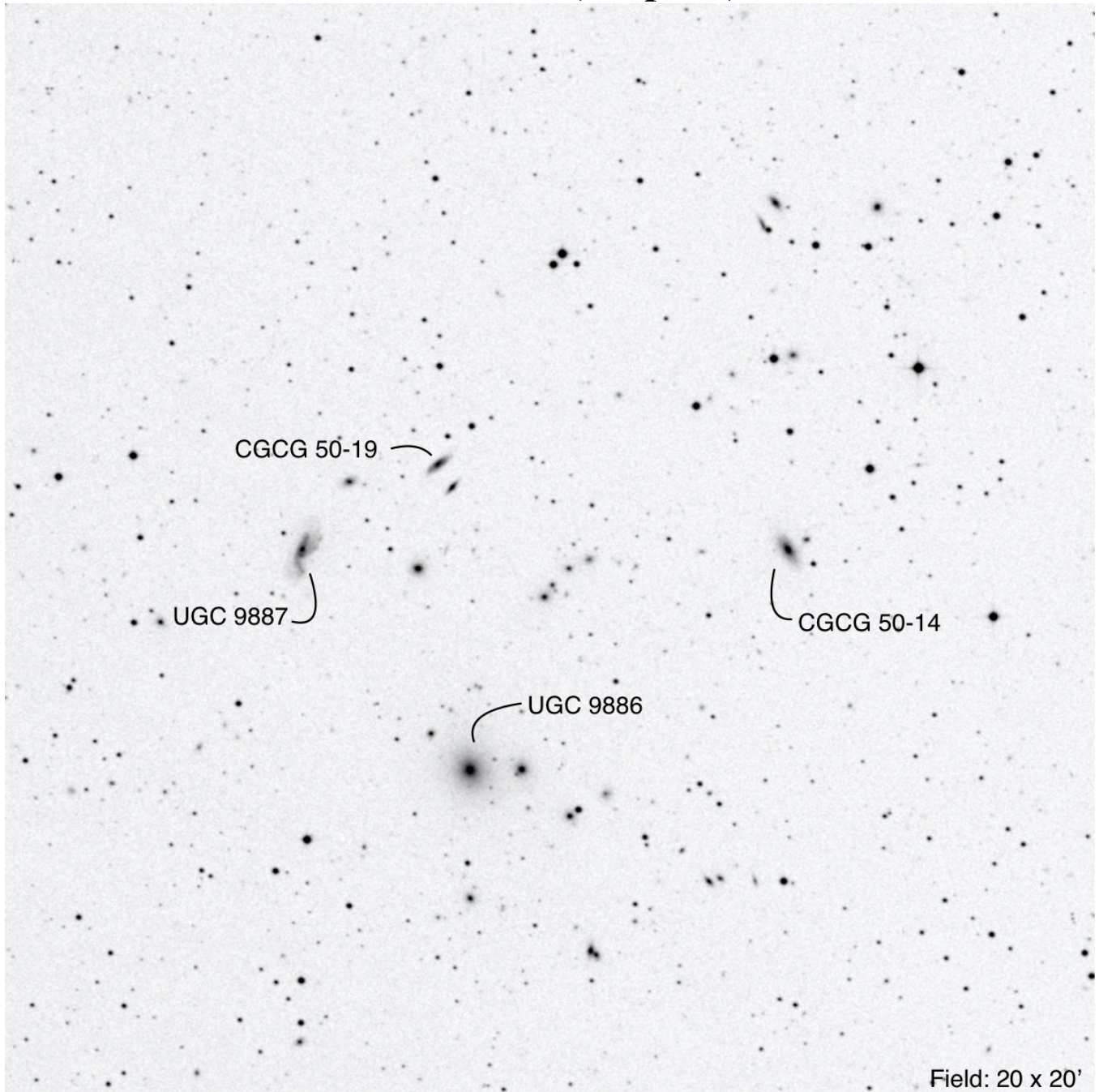


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 3s	15 21 51.9	07 42 32	14.7	4	44, 56

UGC 9887 (Serpens)



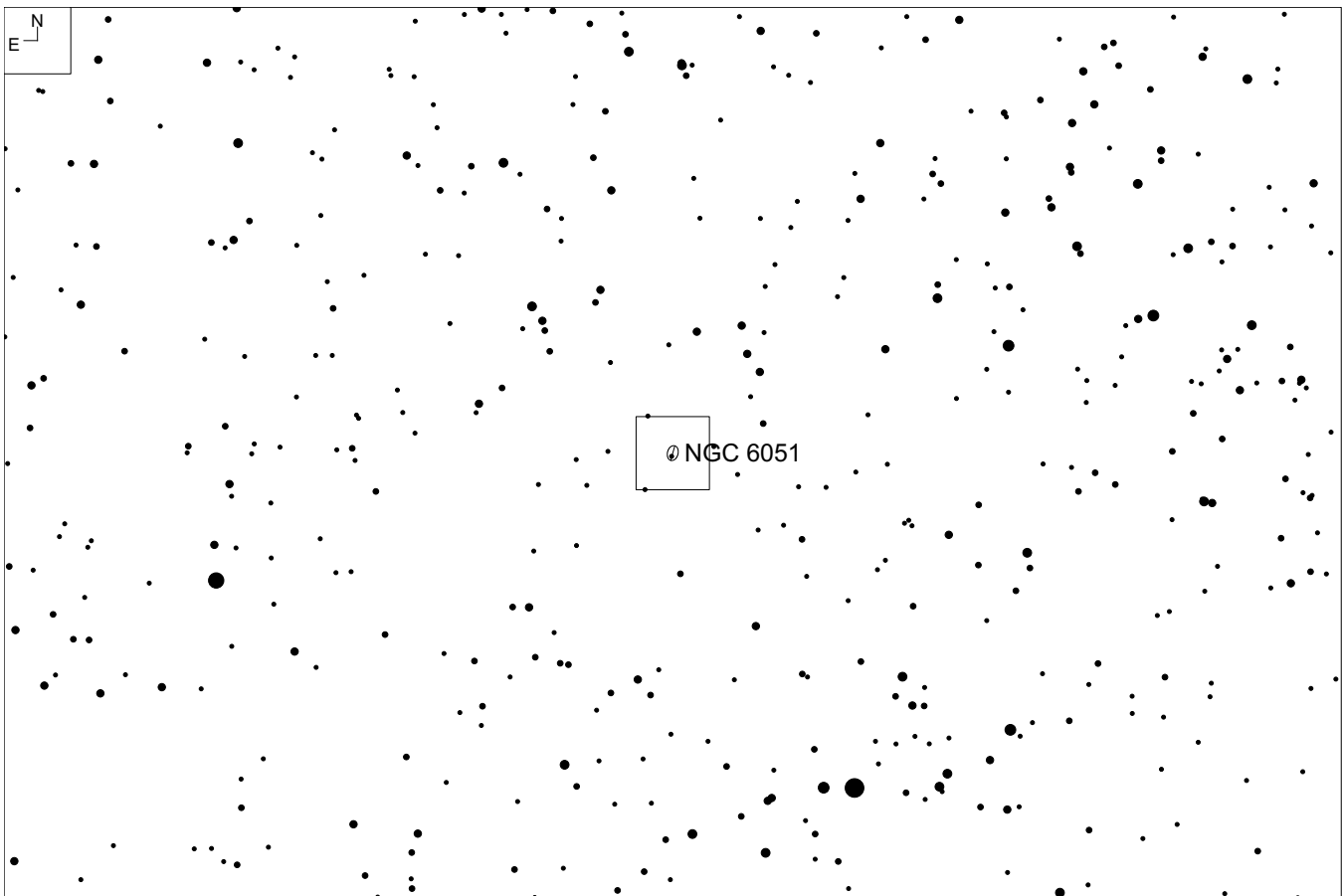
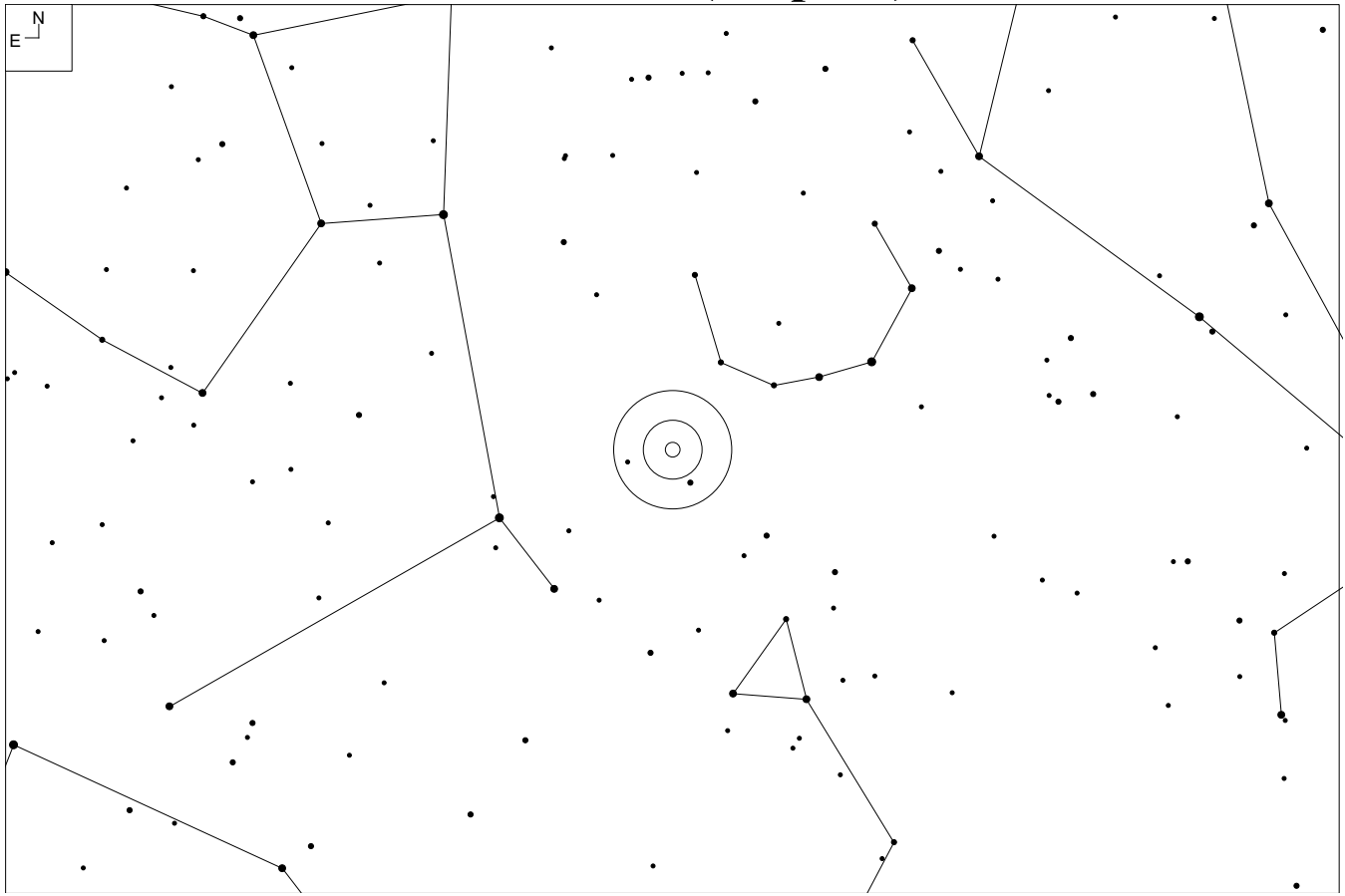
UGC 9887 (Serpens)



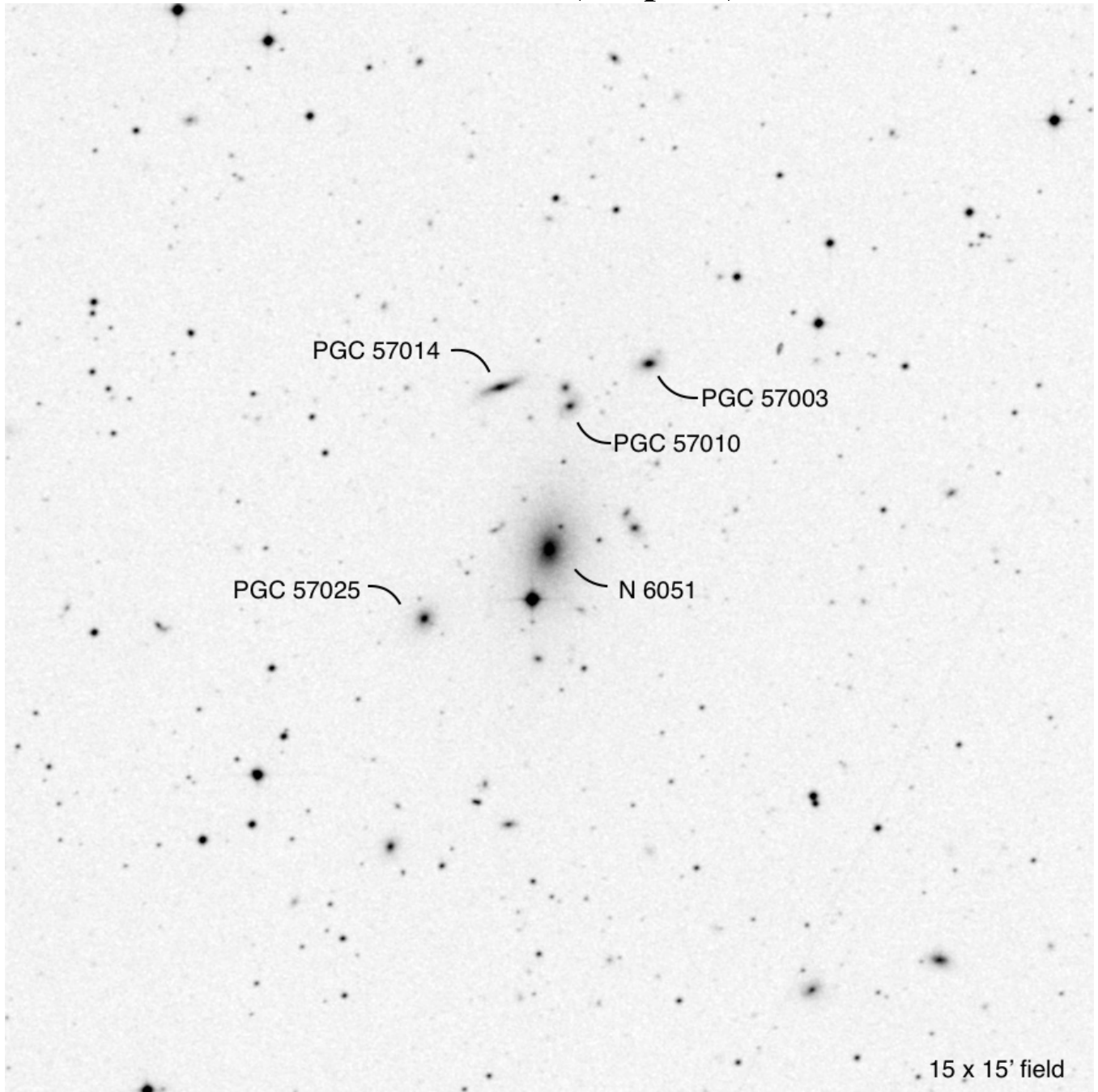
Field: 20 x 20'

Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
MKW 9	15 32 26.0	+04 44 54	15.0	4	56

NGC 6051 (Serpens)

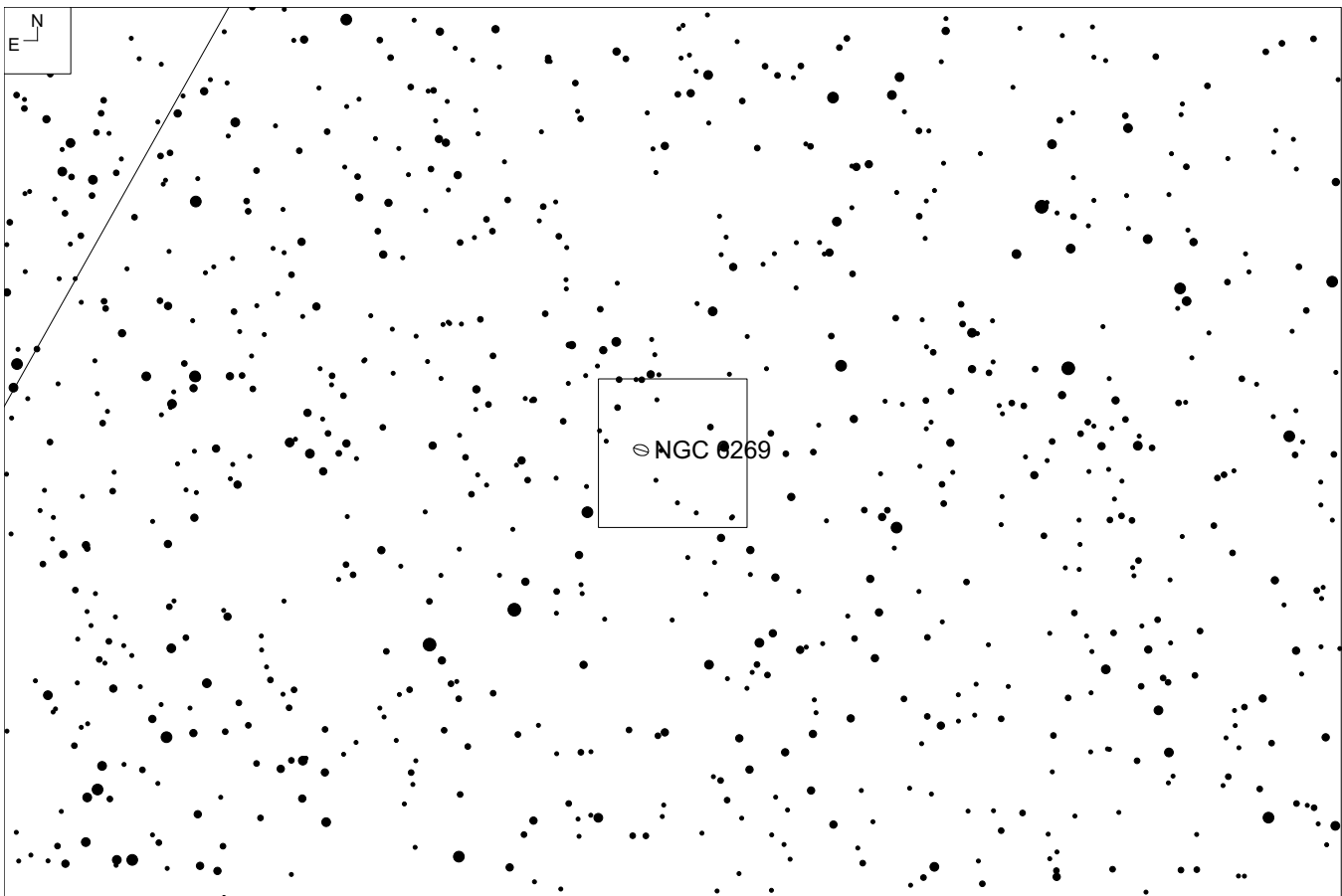
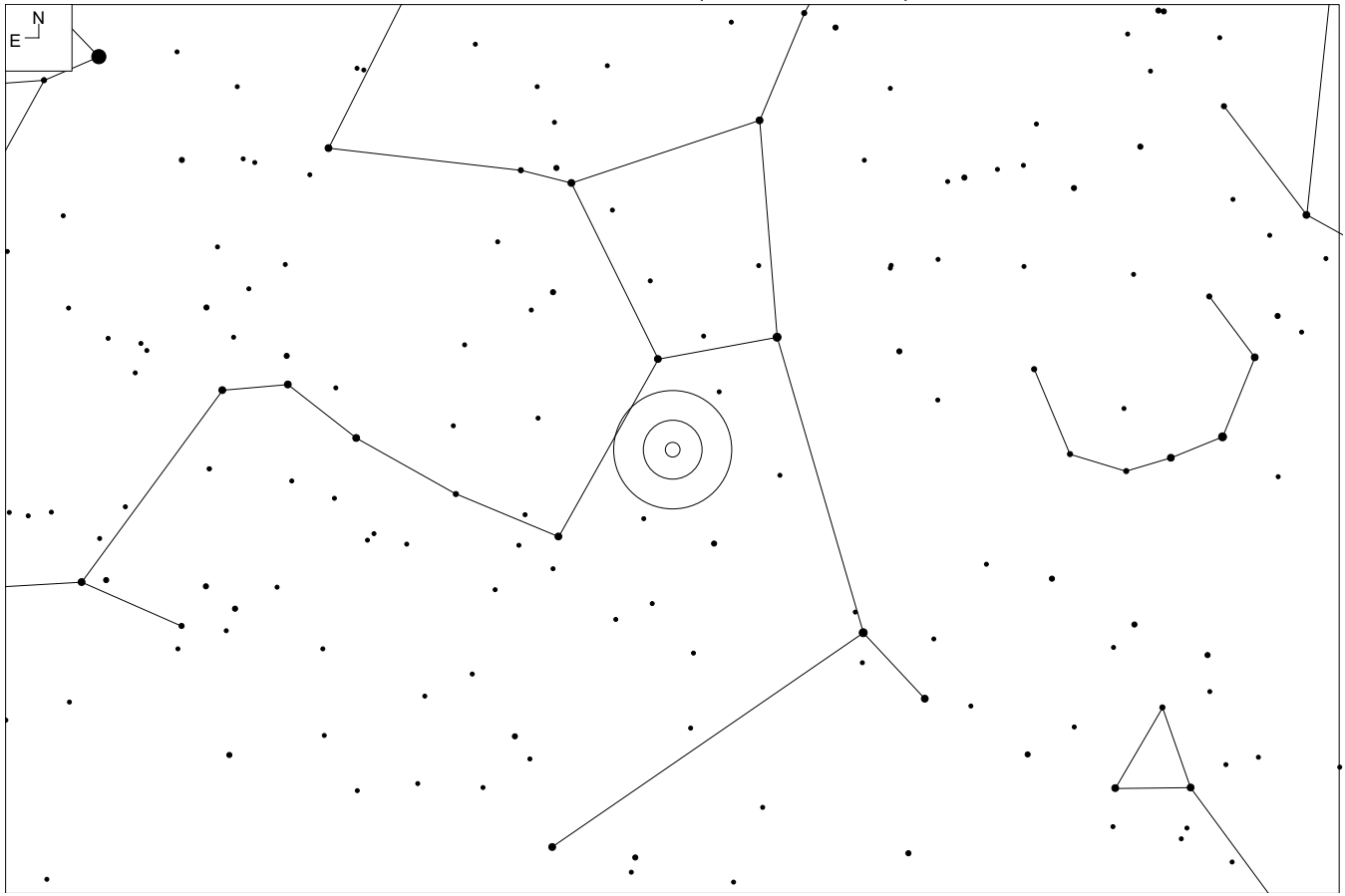


NGC 6051 (Serpens)

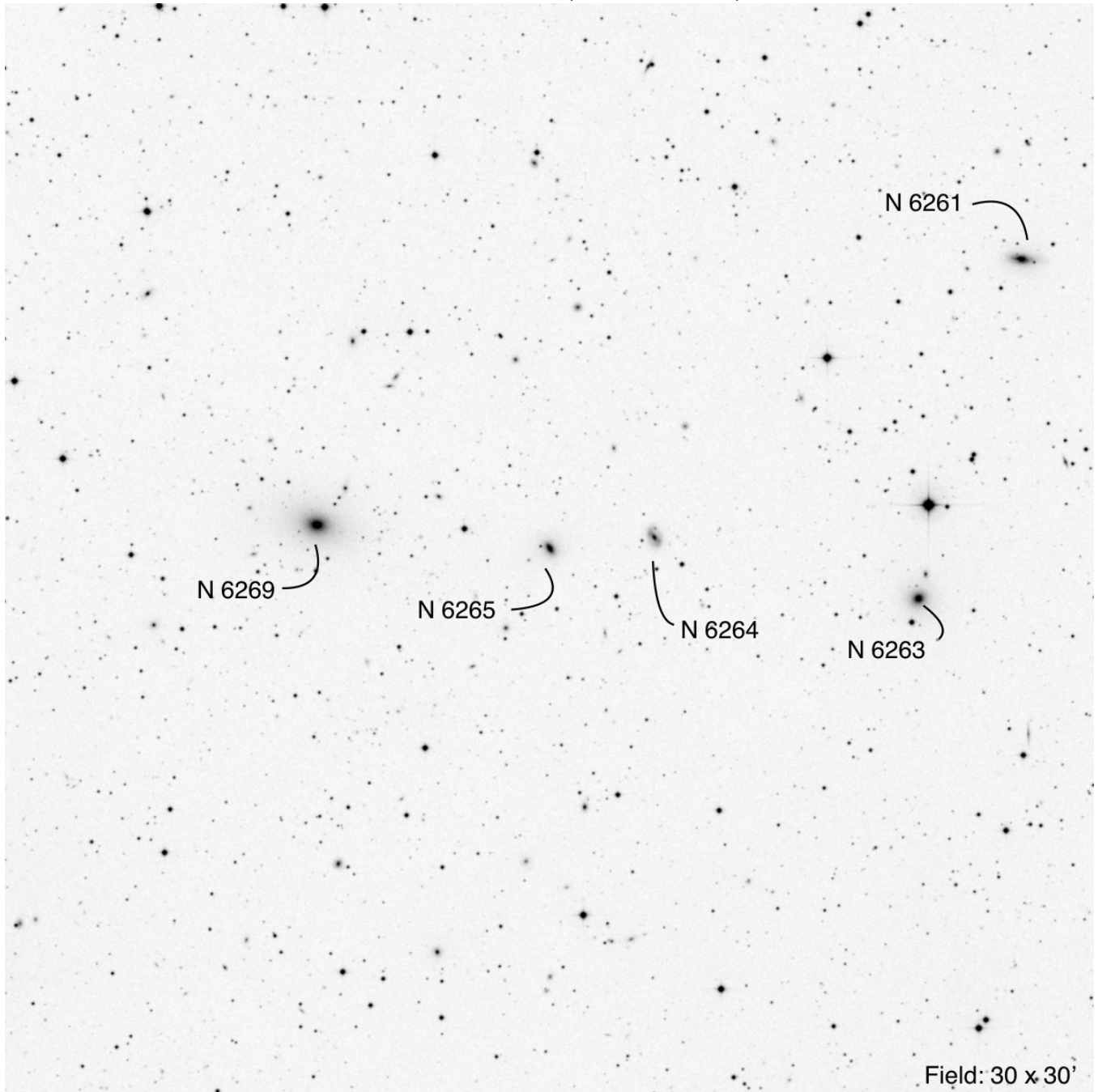


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 4	16 04 56.7	+23 55 57	14.2	5	31, 32, 43

NGC 6269 (Hercules)

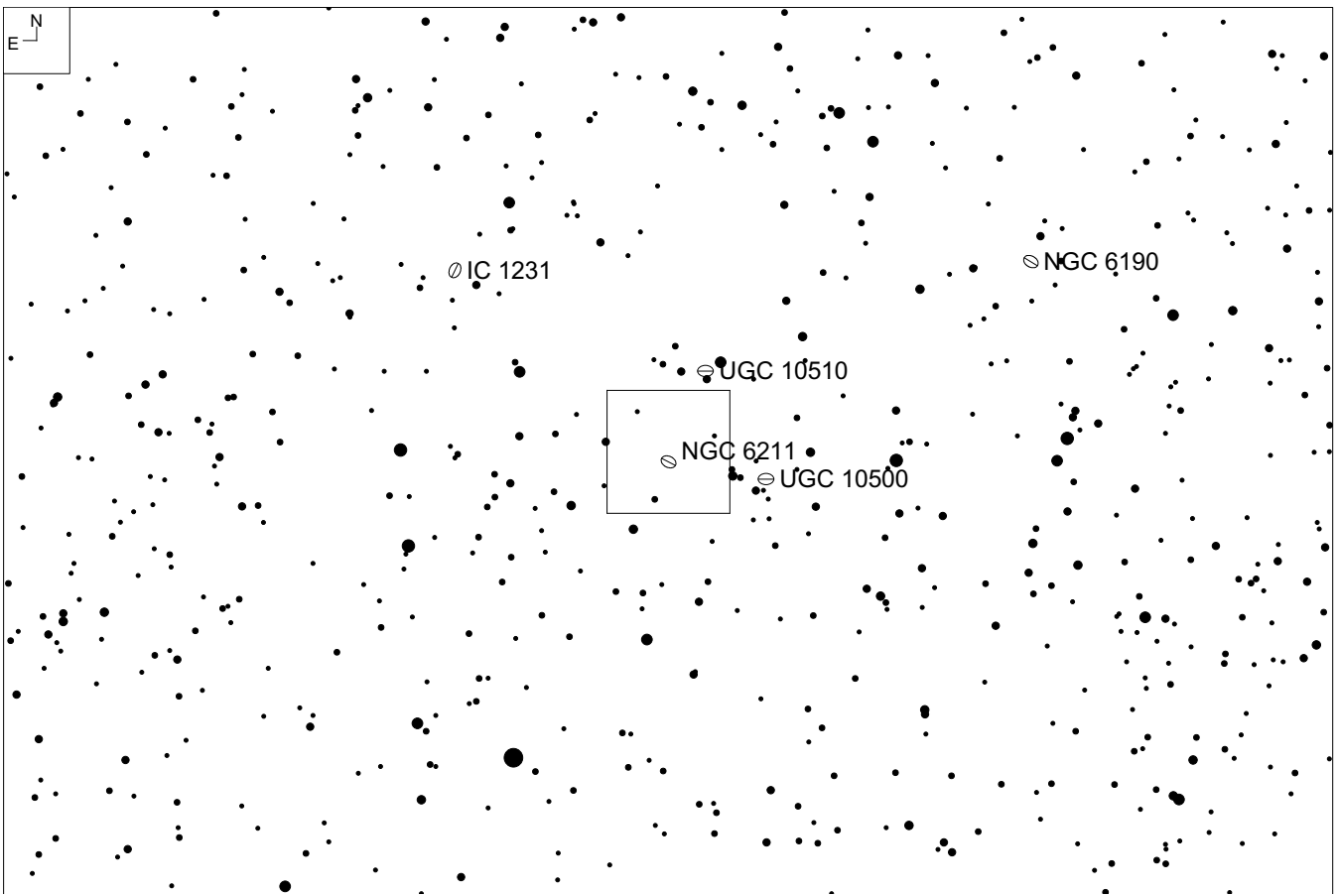
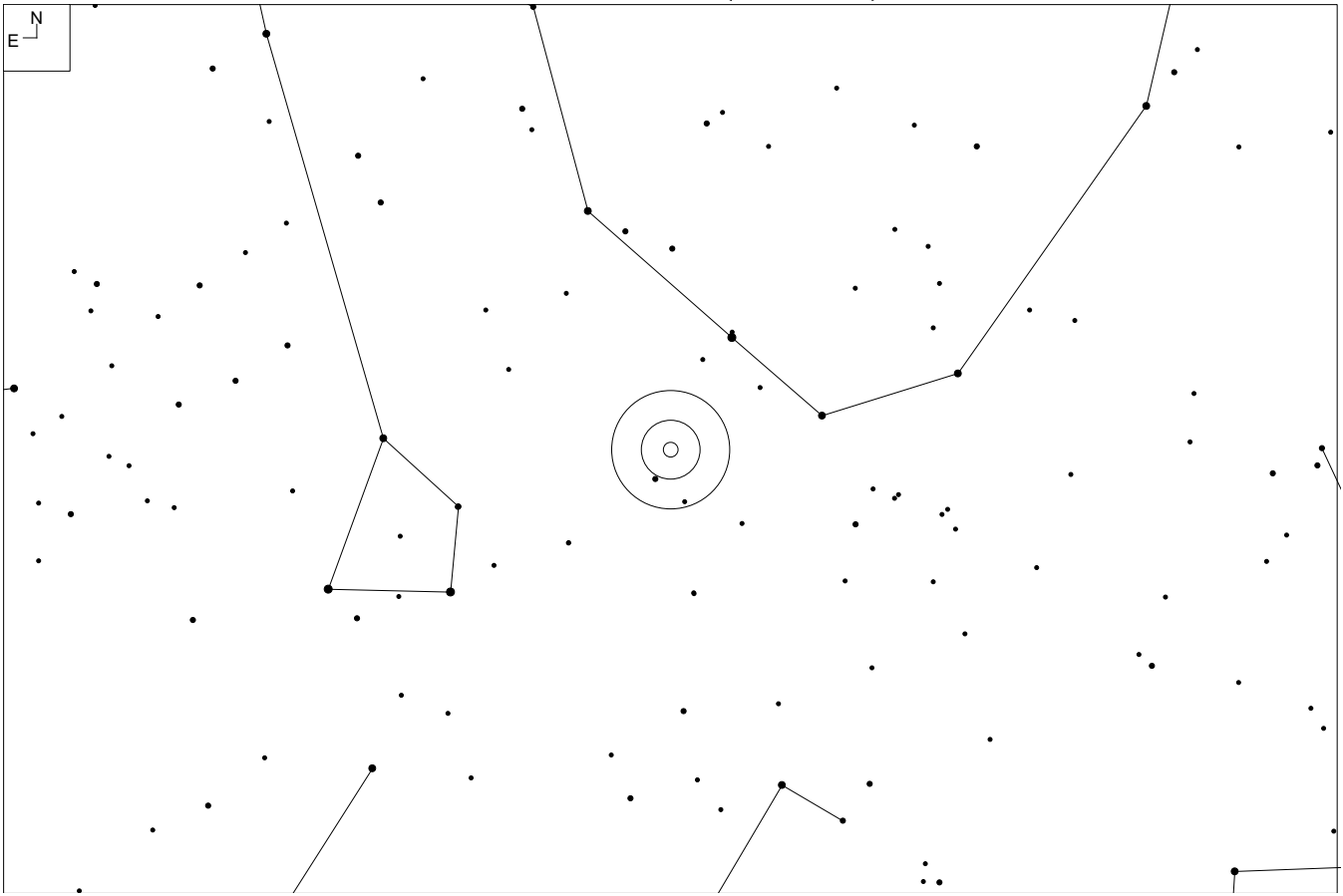


NGC 6269 (Hercules)

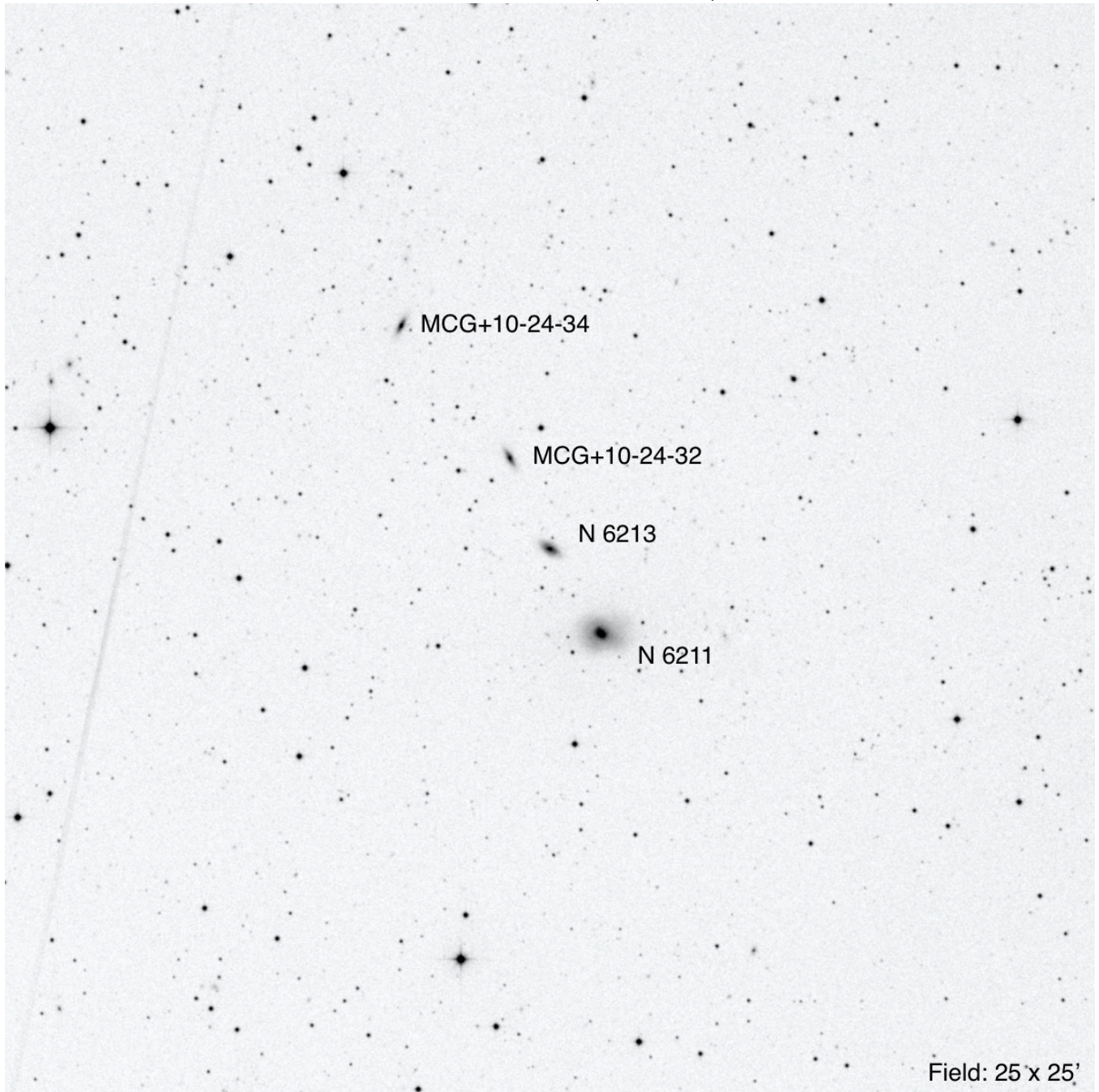


Other ID	RA	Dec	Mag ₁	# of galaxies	iDSA
AWM 5	16 57 58.1	+27 51 15	12.2	5	31

NGC 6211 (Draco)

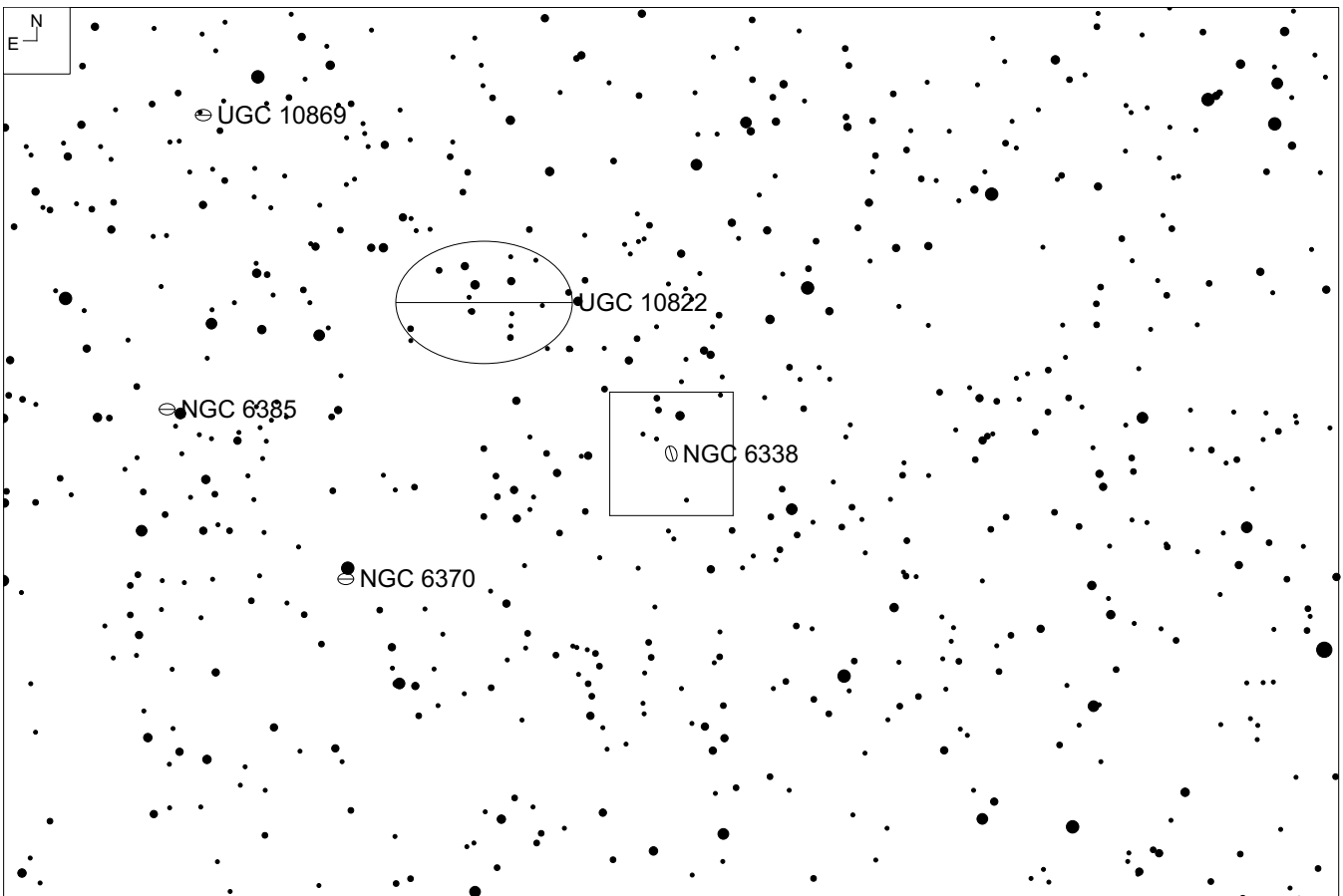
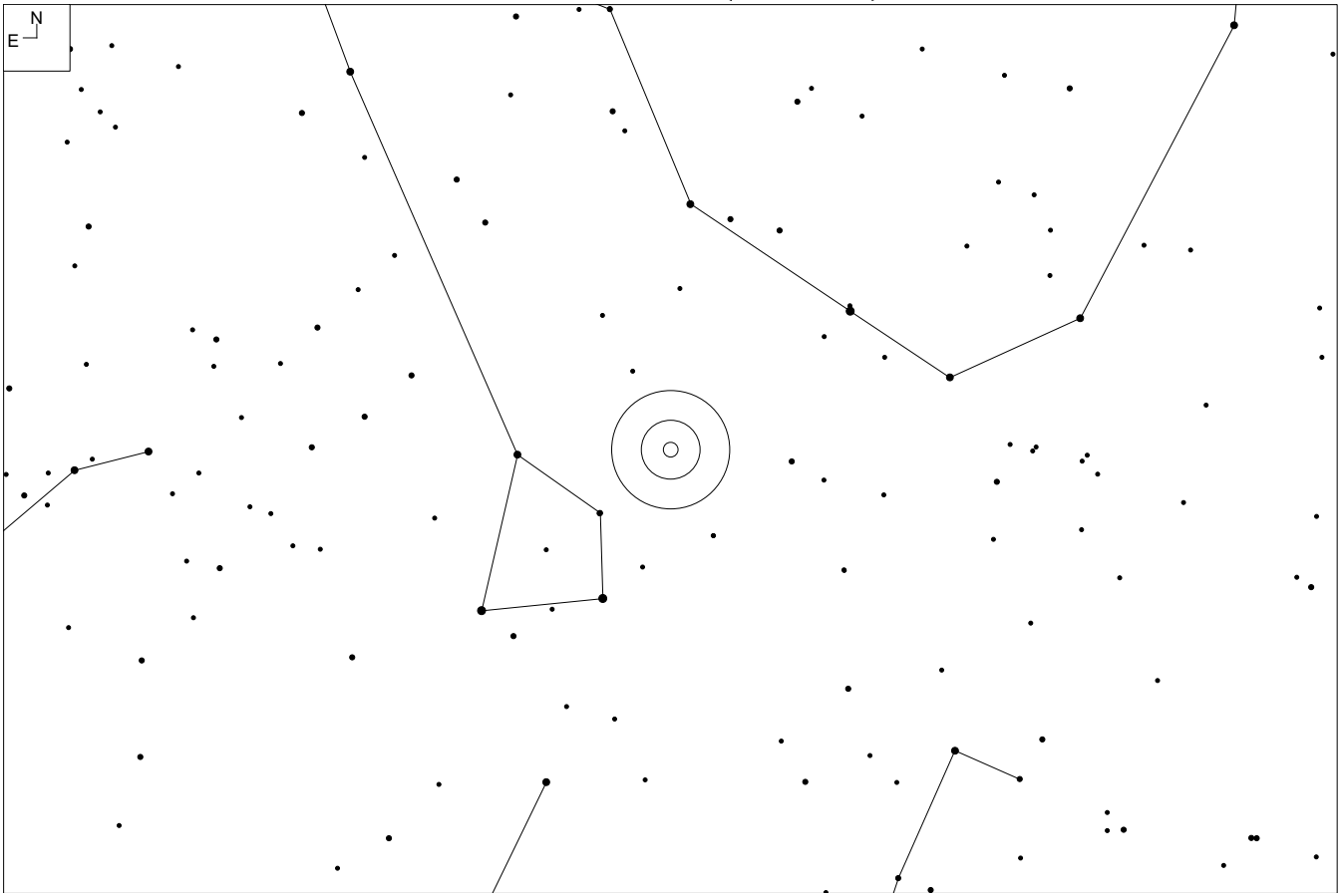


NGC 6211 (Draco)

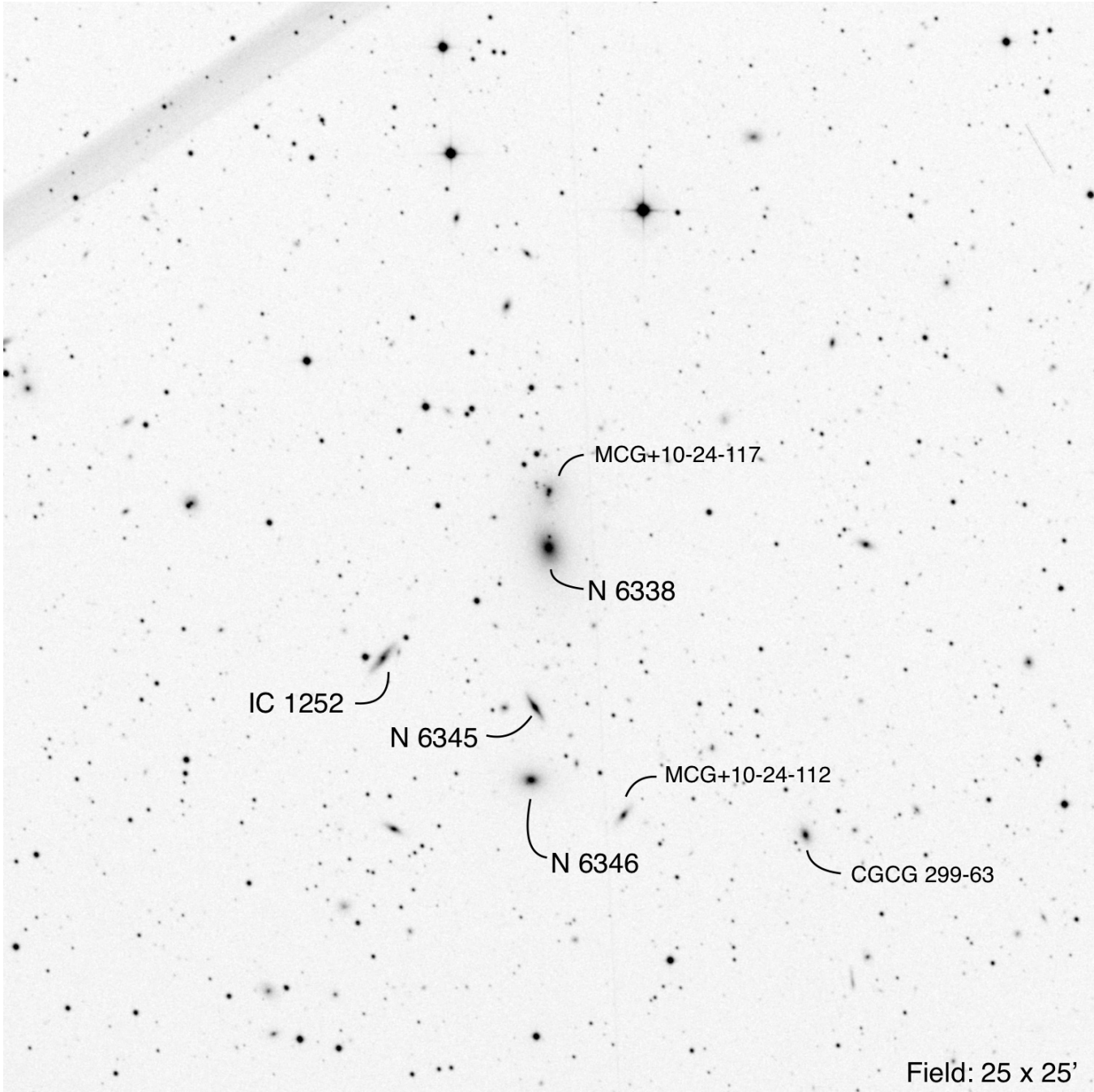


RA	Dec	Mag ₁	# of galaxies	iDSA
16 41 37.2	+57 48 54	12.6	4	10

NGC 6338 (Draco)

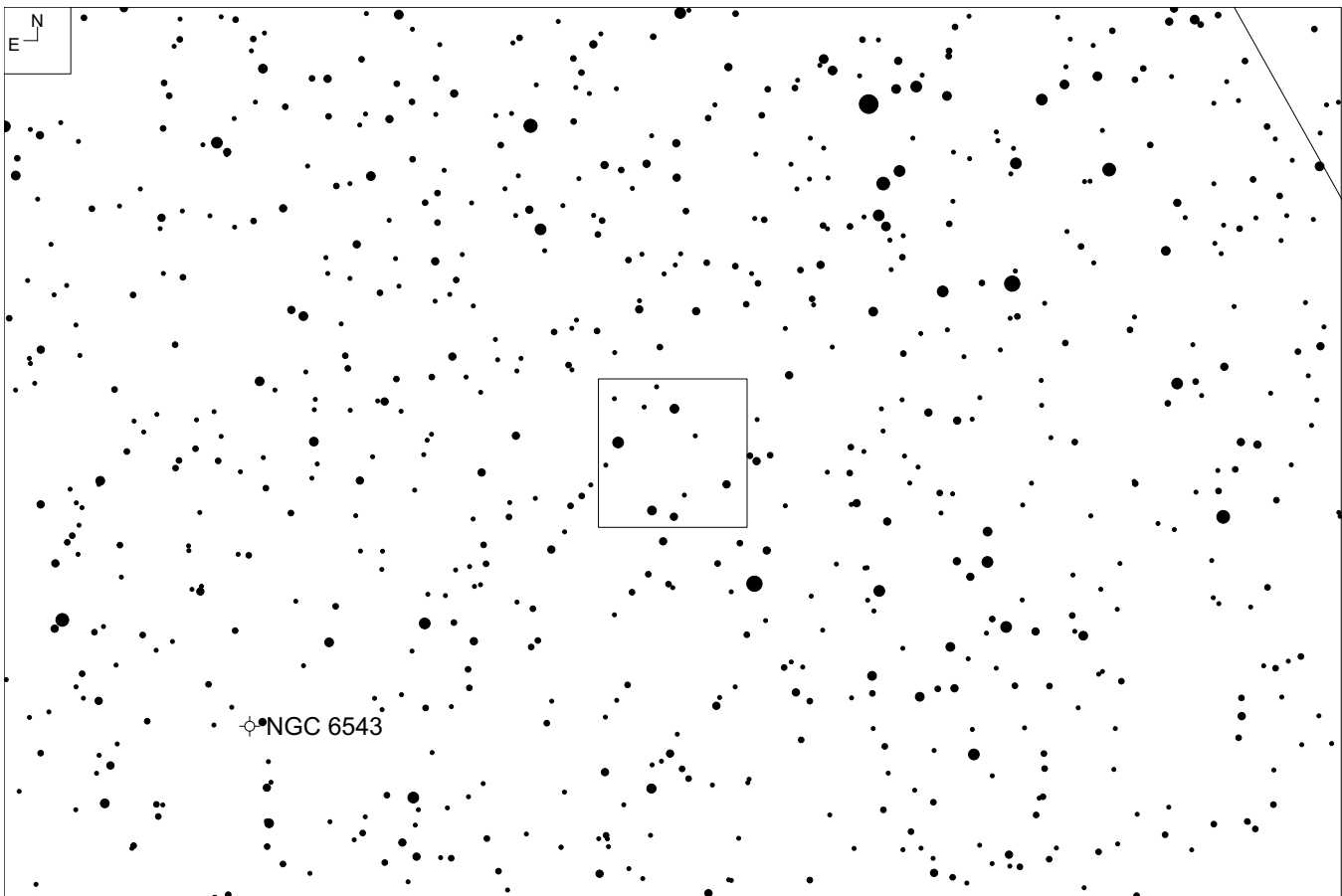
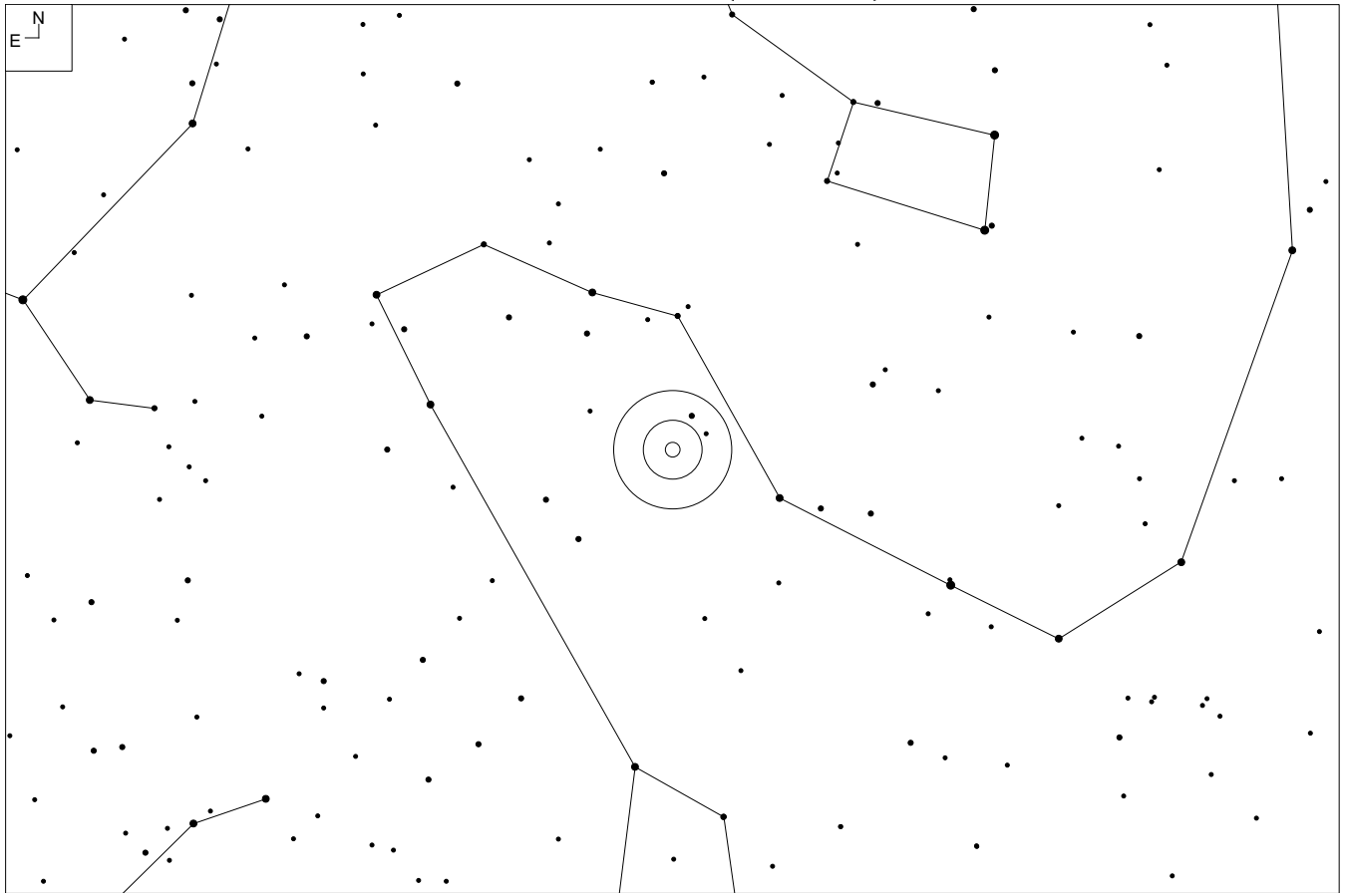


NGC 6338 (Draco)

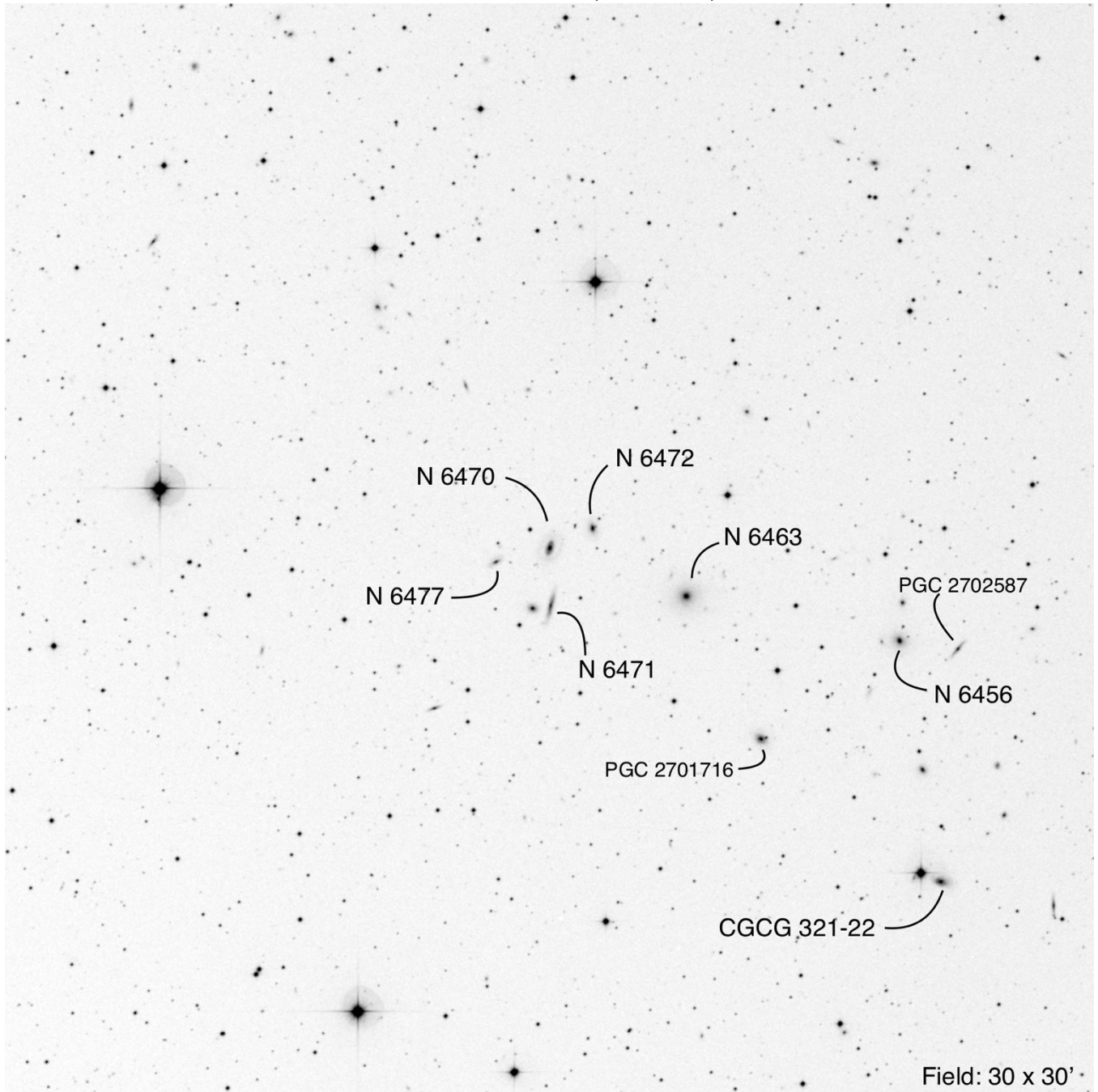


RA	Dec	Mag ₁	# of galaxies	iDSA
17 15 22.6	+57 24 45	12.3	7	10

NGC 6472 (Draco)

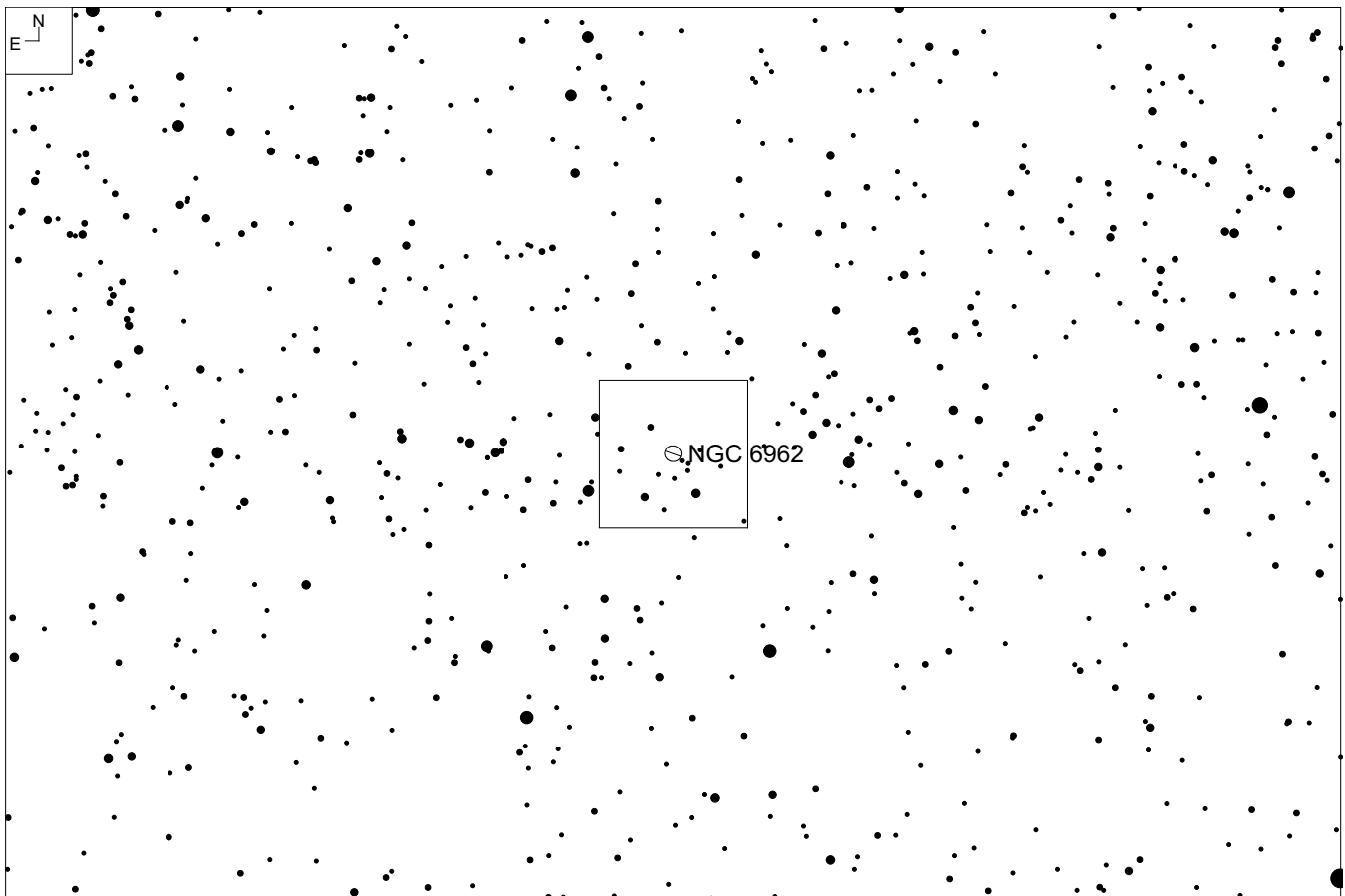
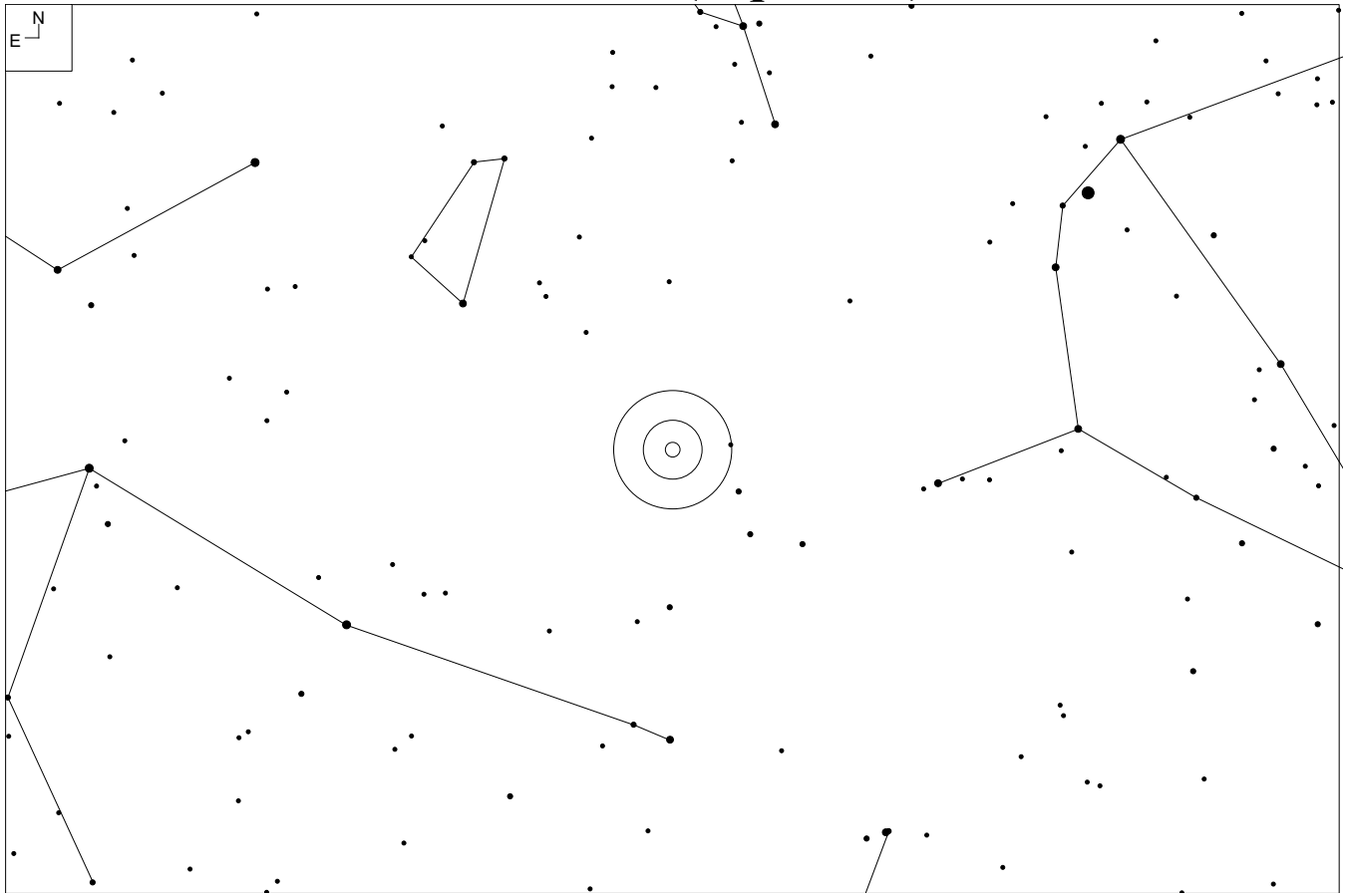


NGC 6472 (Draco)

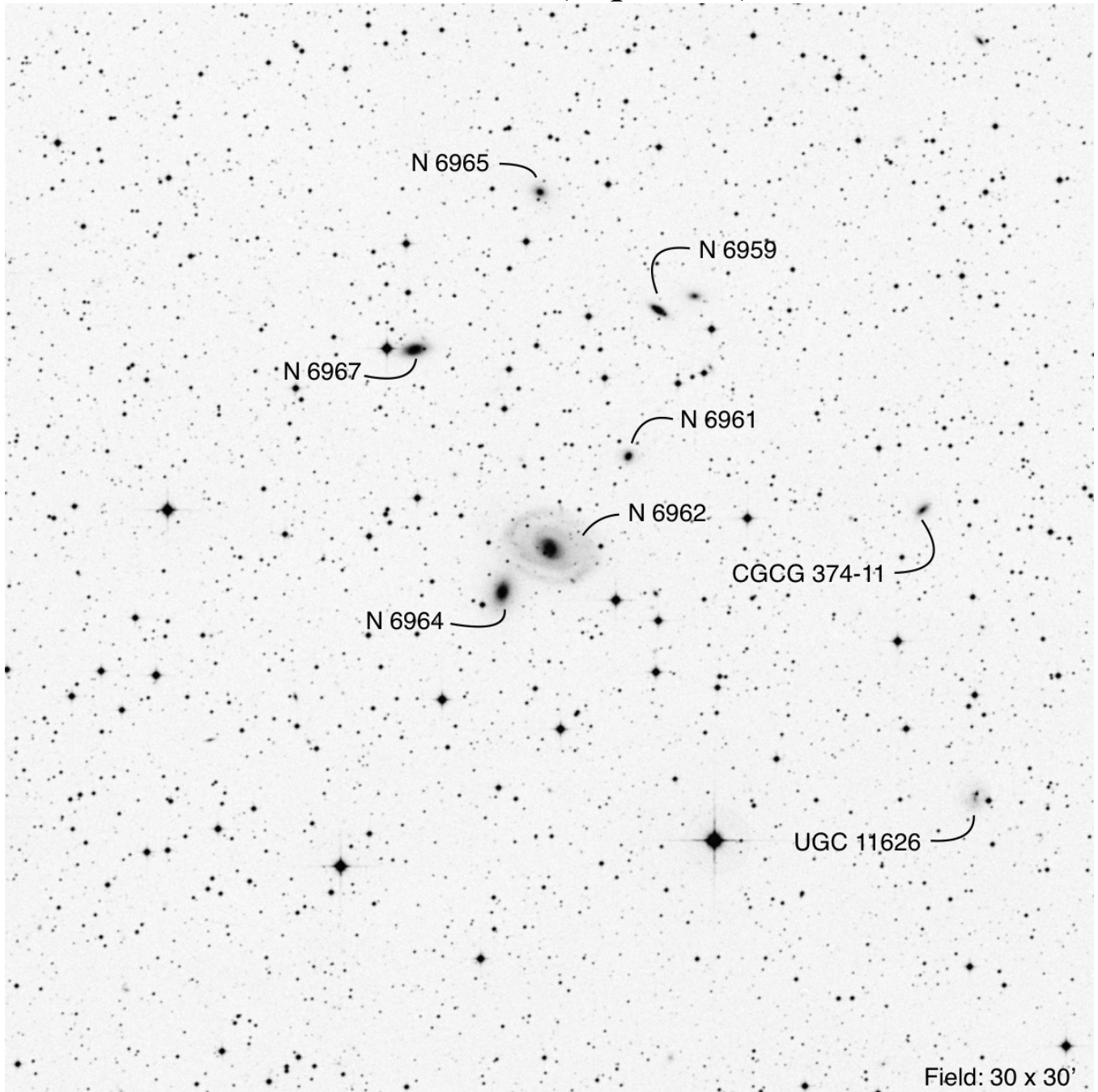


RA	Dec	Mag ₁	# of galaxies	iDSA
17 44 14.9	+67 37 10	14.2	9	3, 10

NGC 6962 (Aquarius)

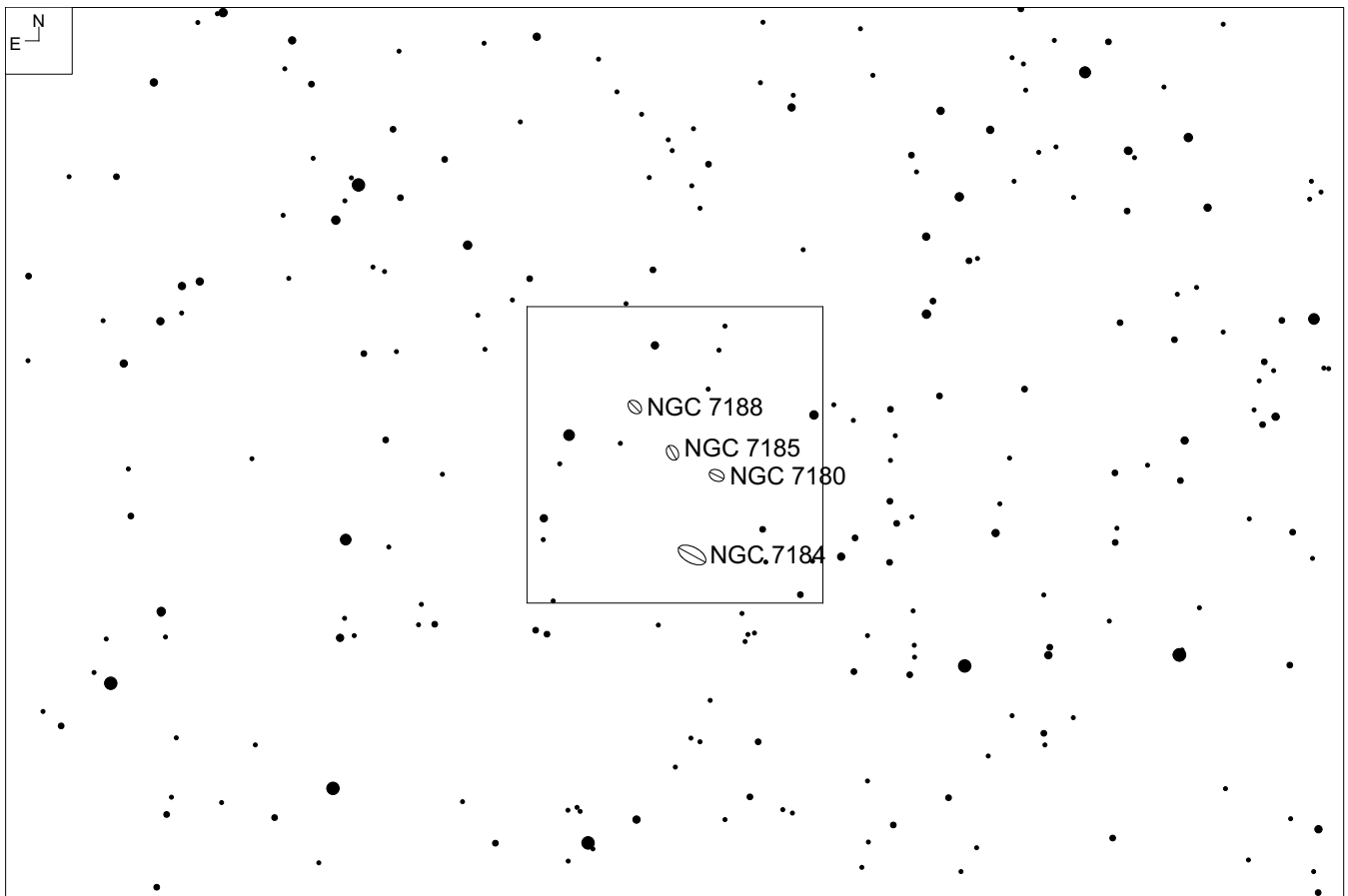
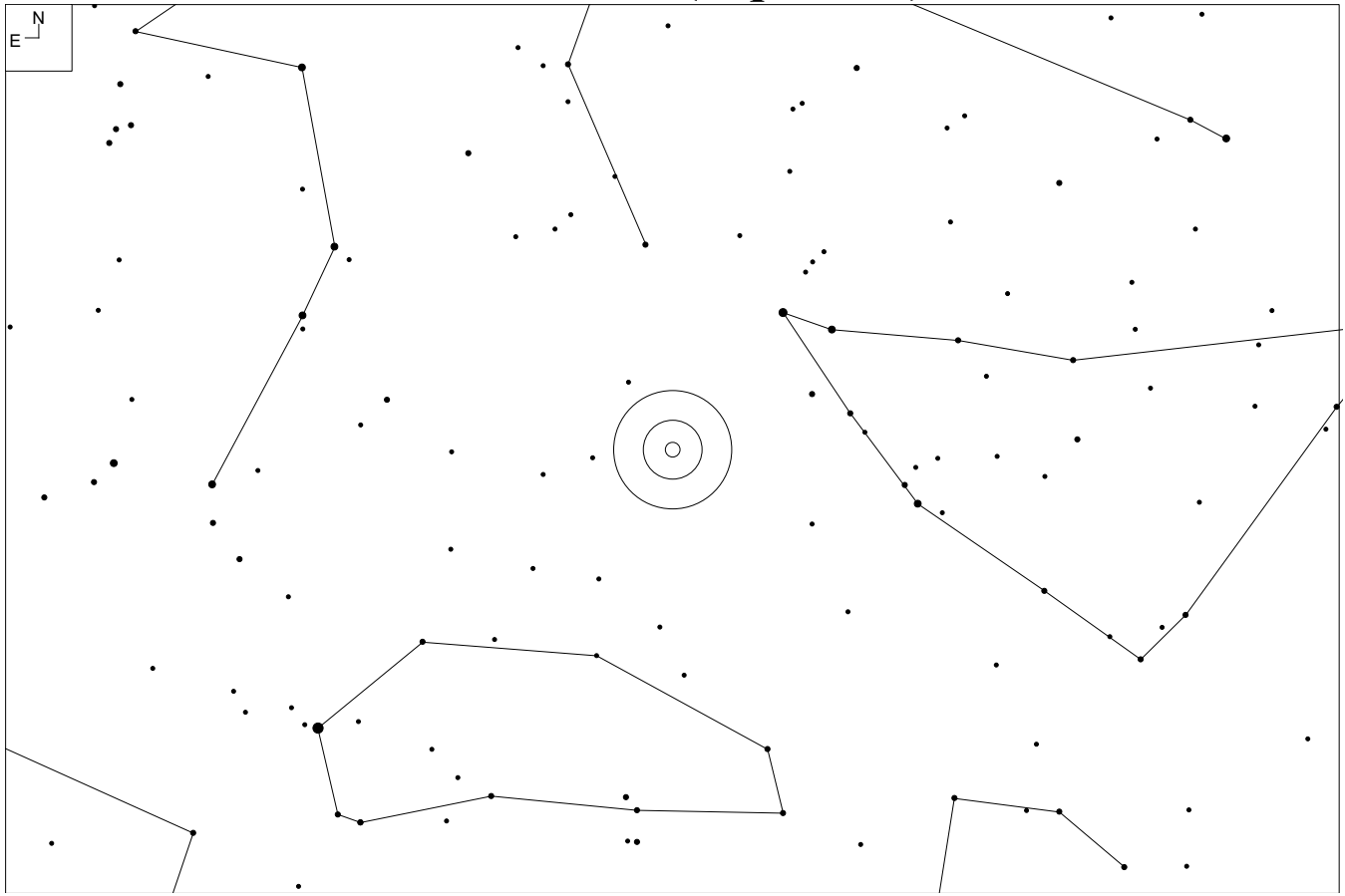


NGC 6962 (Aquarius)

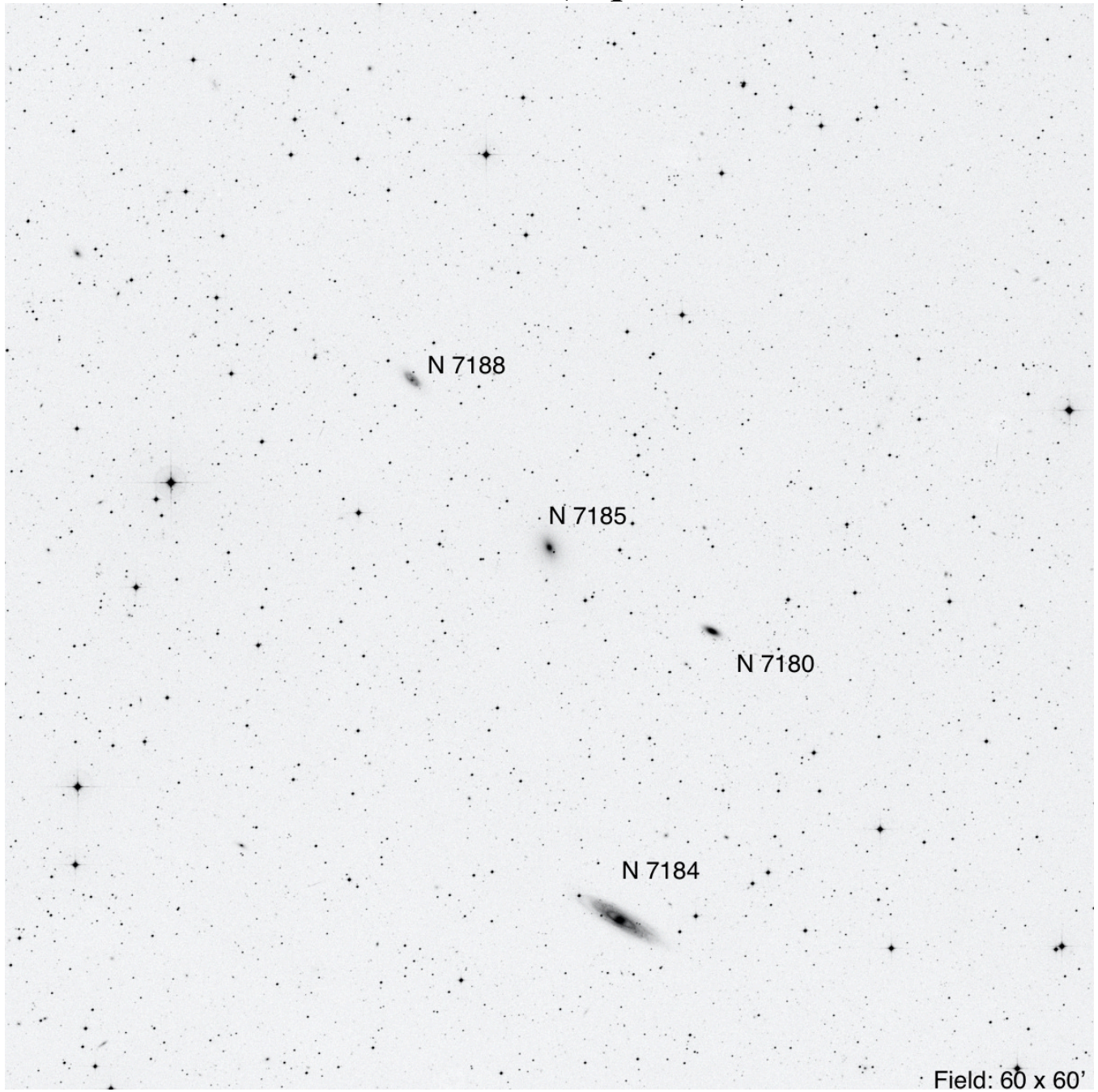


RA	Dec	Mag ₁	# of galaxies	iDSA
20 47 19.0	+00 19 17	12.1	8	53

NGC 7184 (Aquarius)

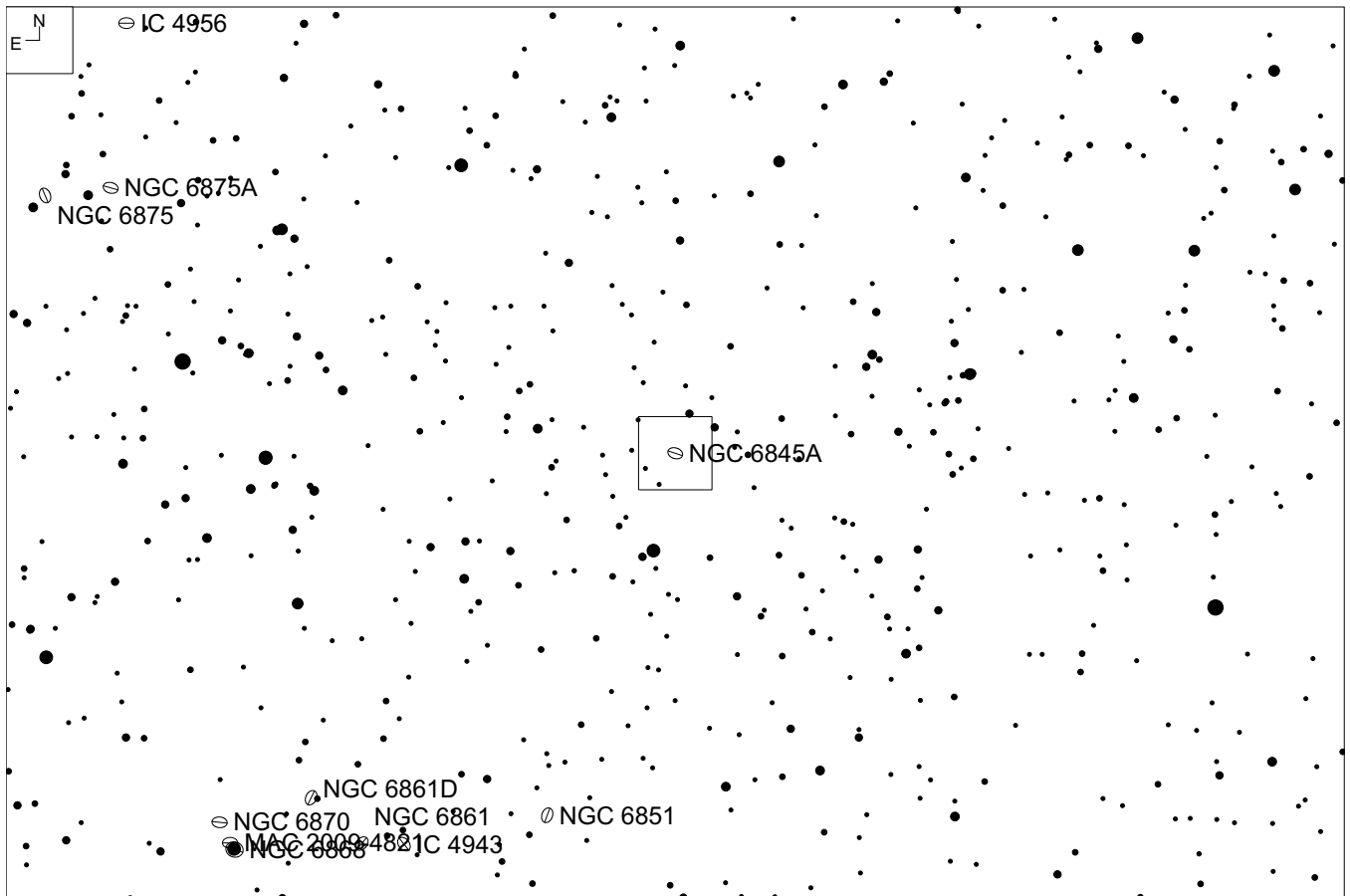
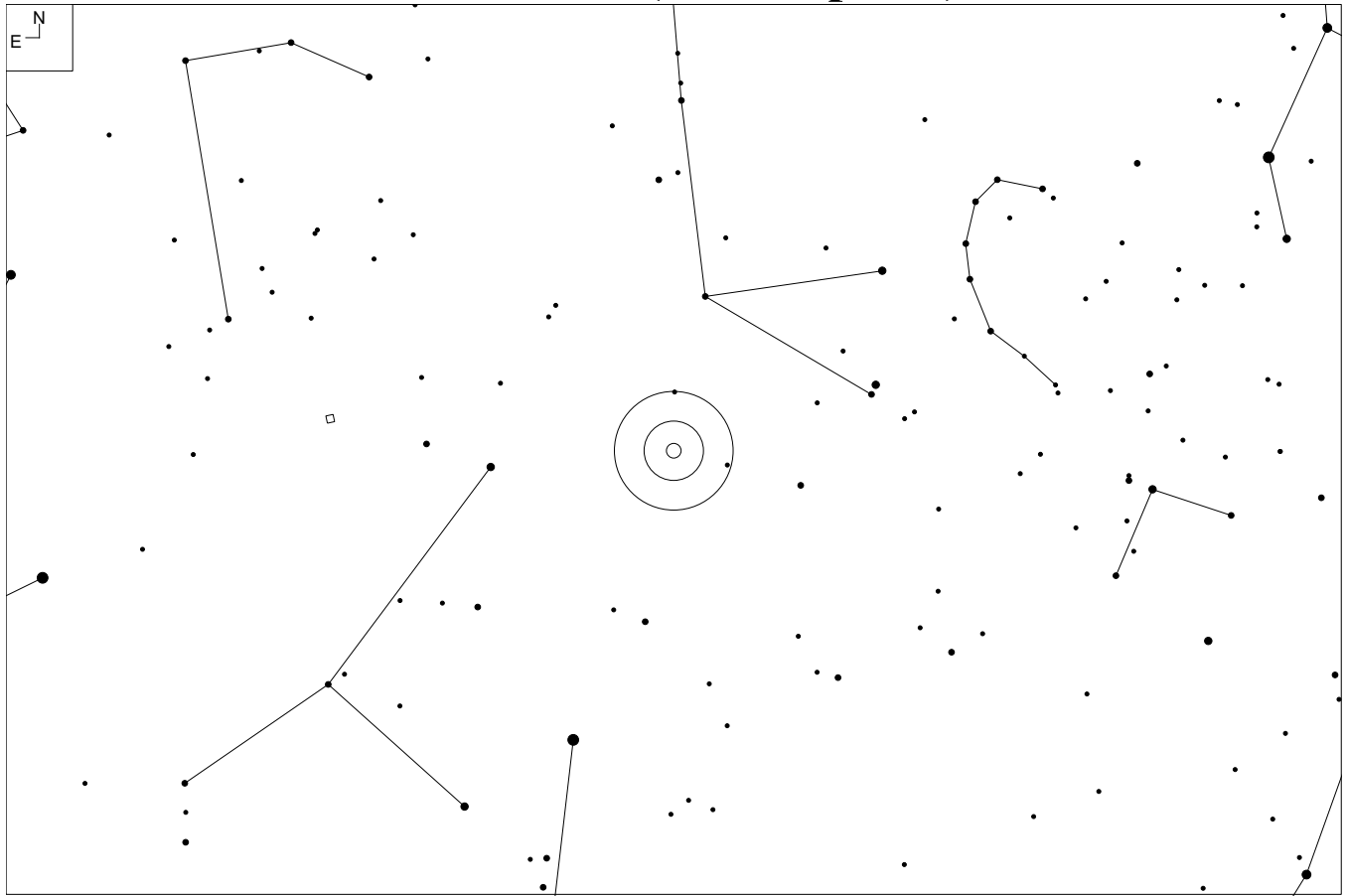


NGC 7184 (Aquarius)

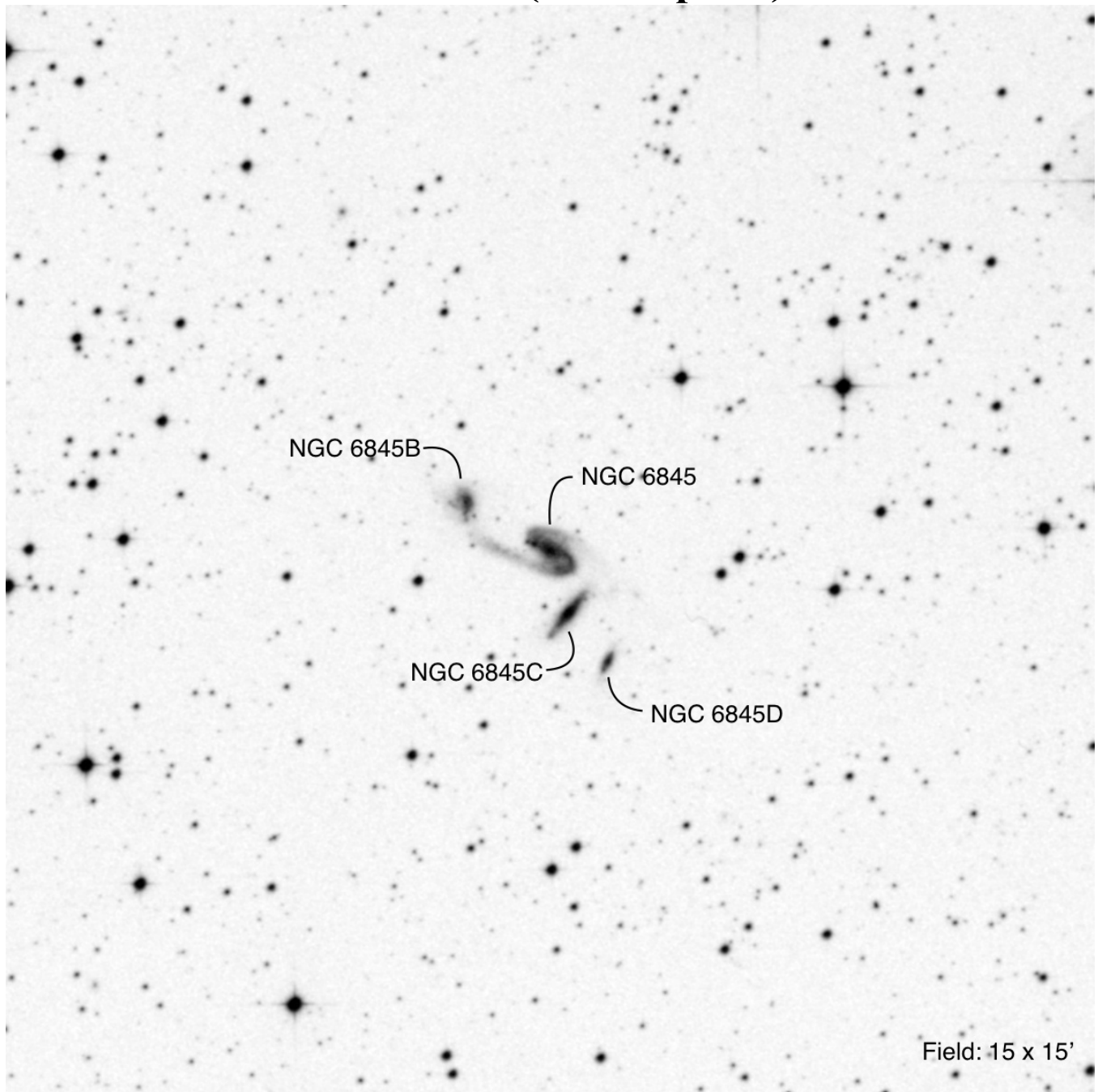


RA	Dec	Mag ₁	# of galaxies	iDSA
22 02 39.7	-20 48 50	11.2	4	64, 65, 76, 77

NGC 6845 (Telescopium)

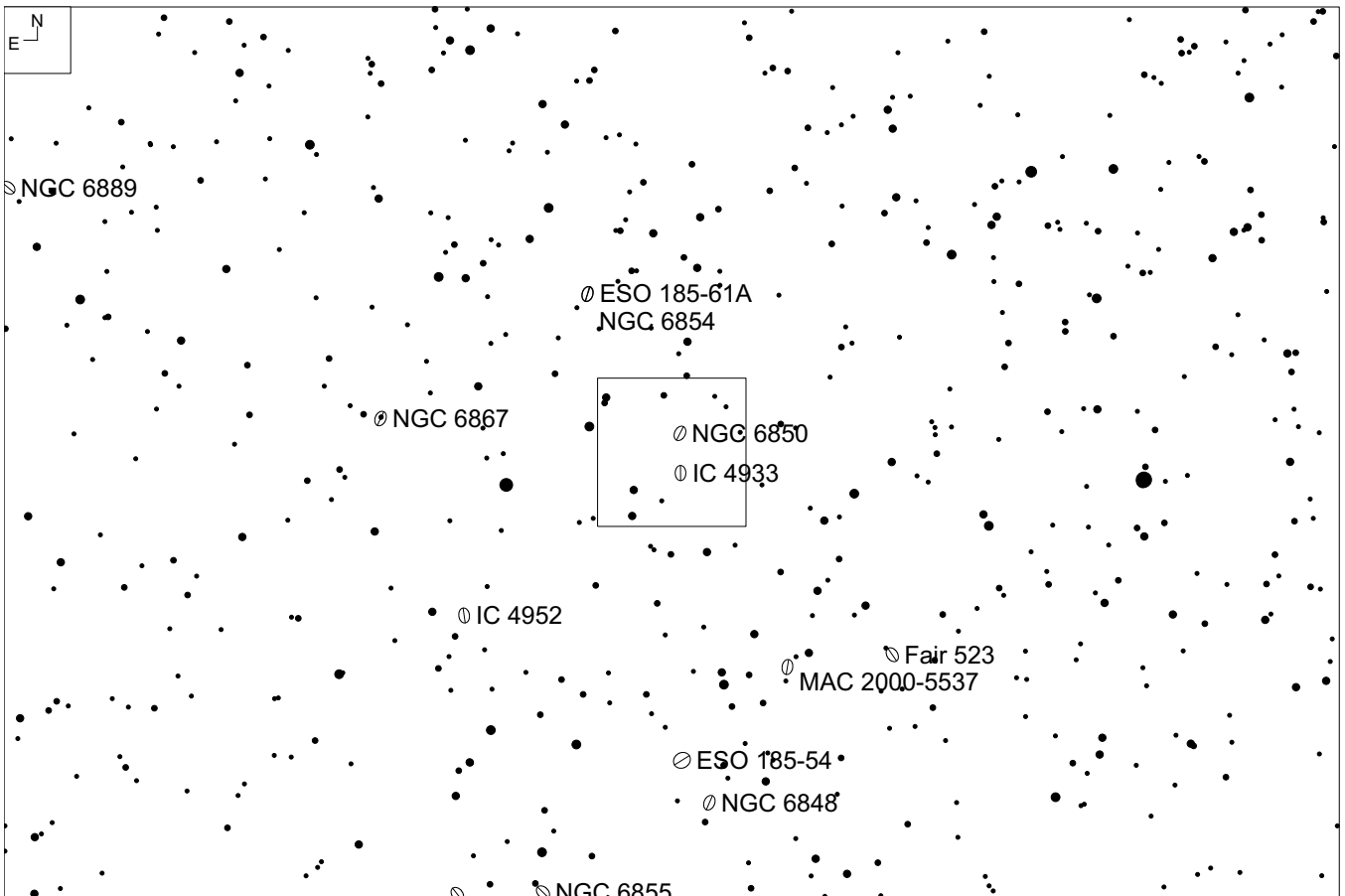
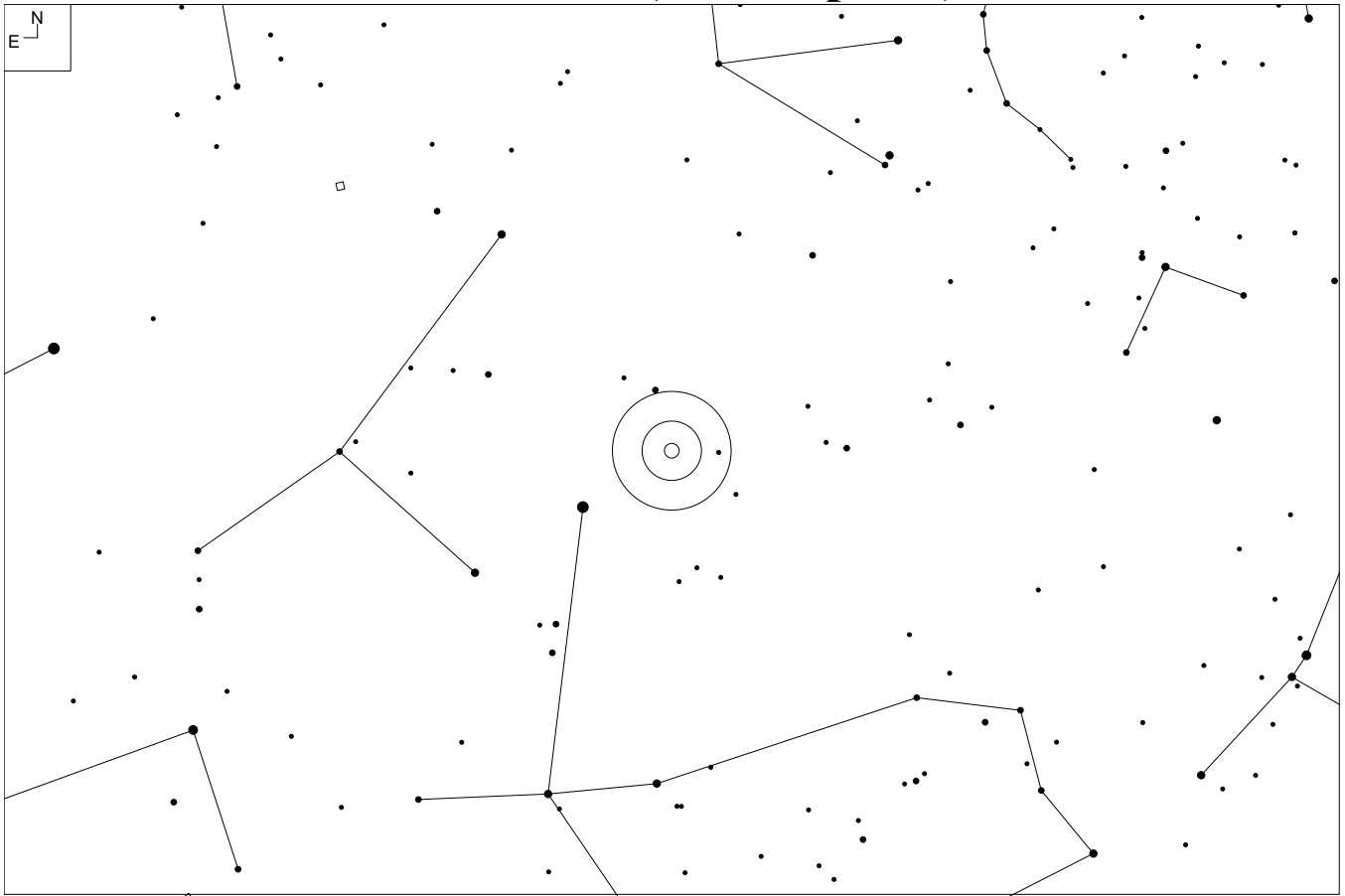


NGC 6845 (Telescopium)

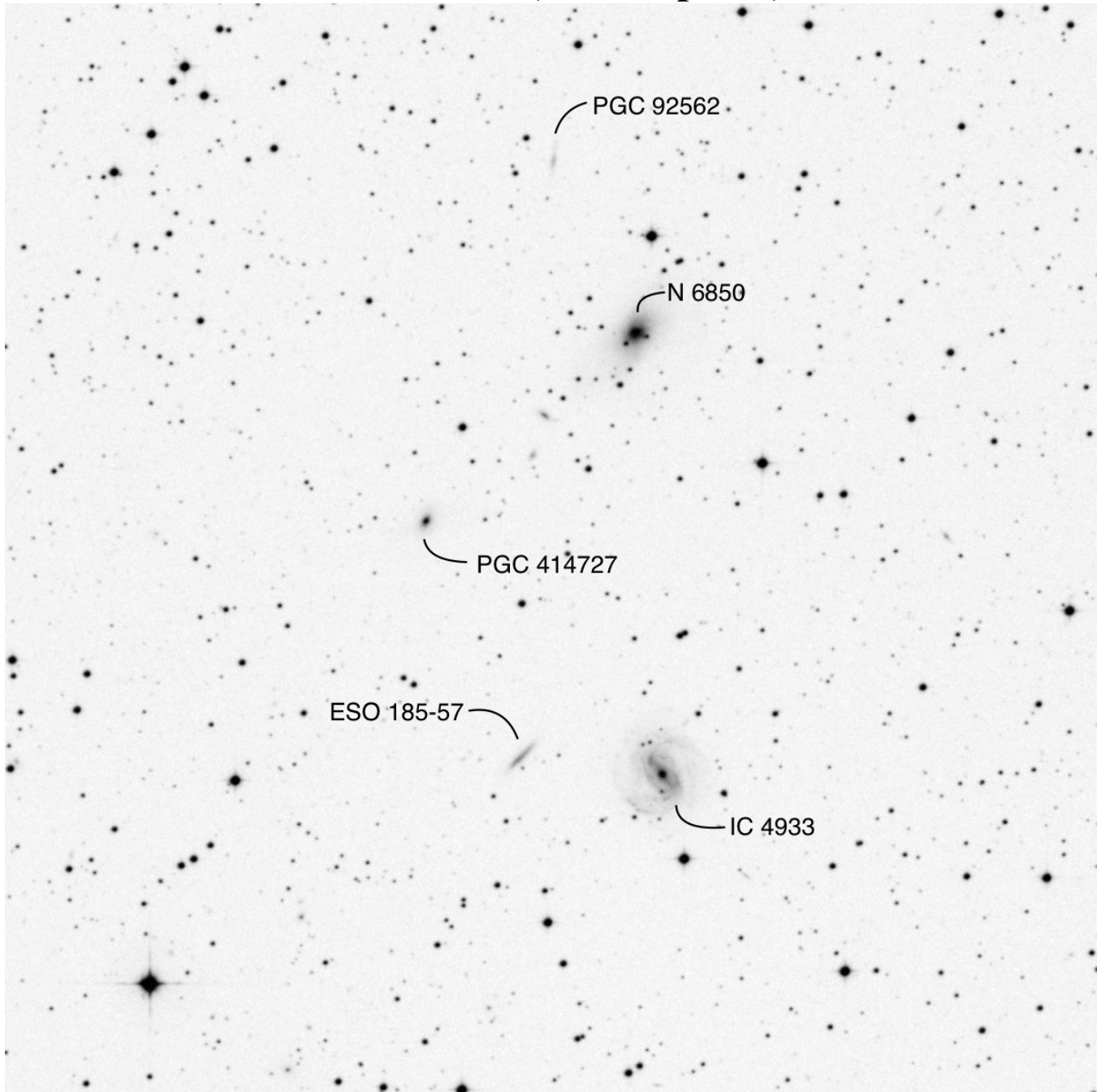


RA	Dec	Mag ₁	# of galaxies	iDSA
20 00 58.4	-47 04 13	12.2	4	89

NGC 6850 (Telescopium)

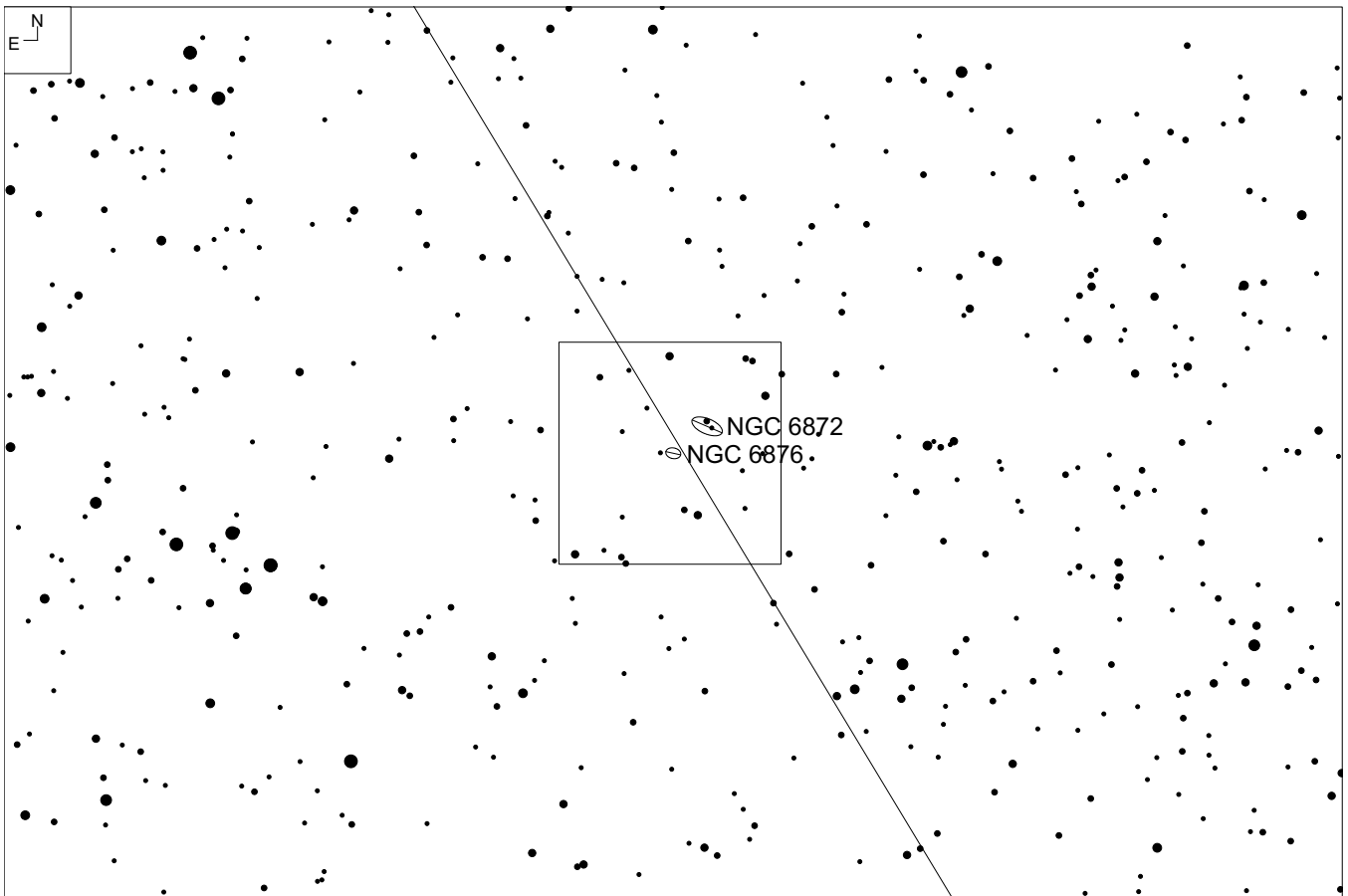
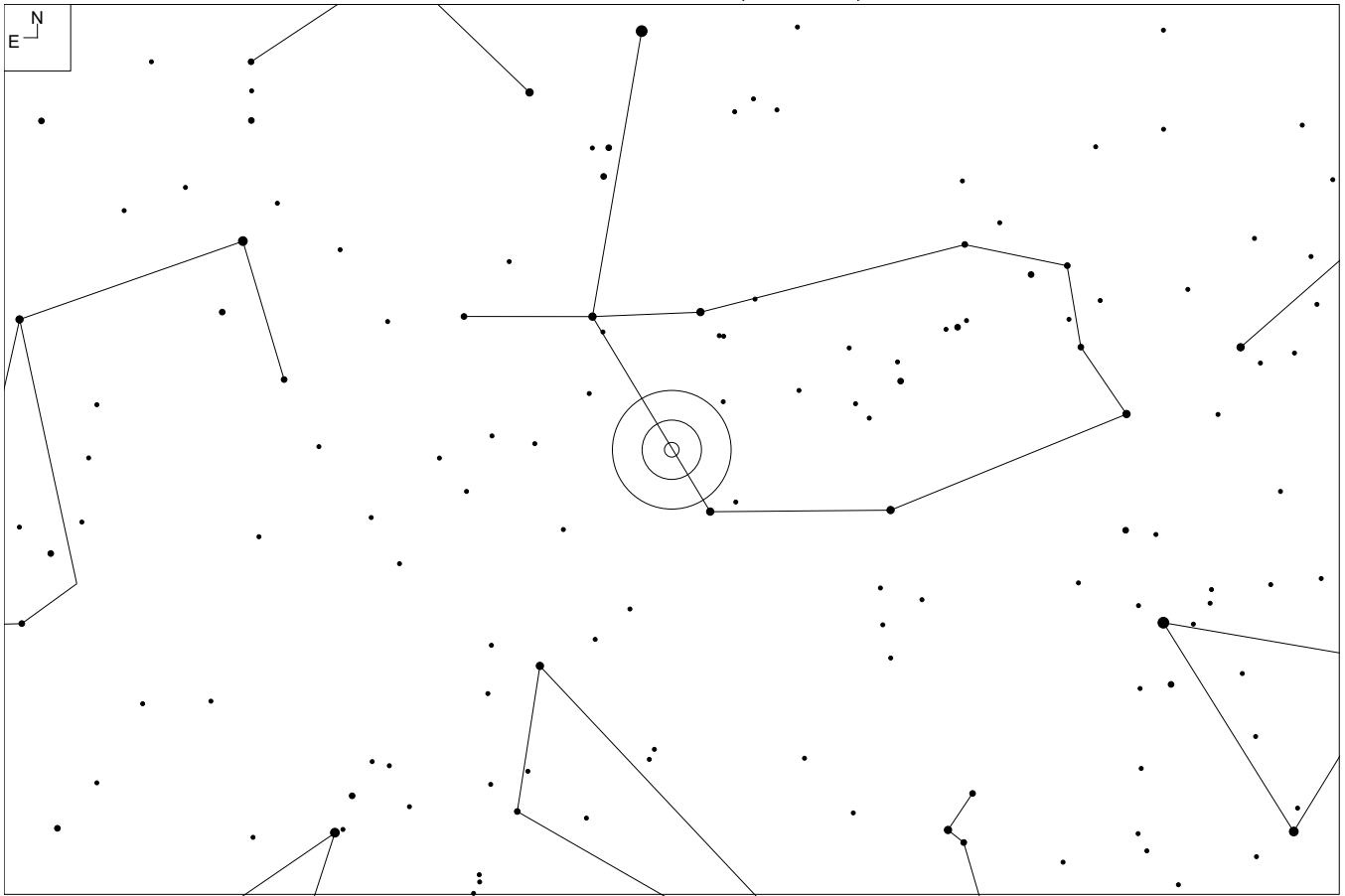


NGC 6850 (Telescopium)

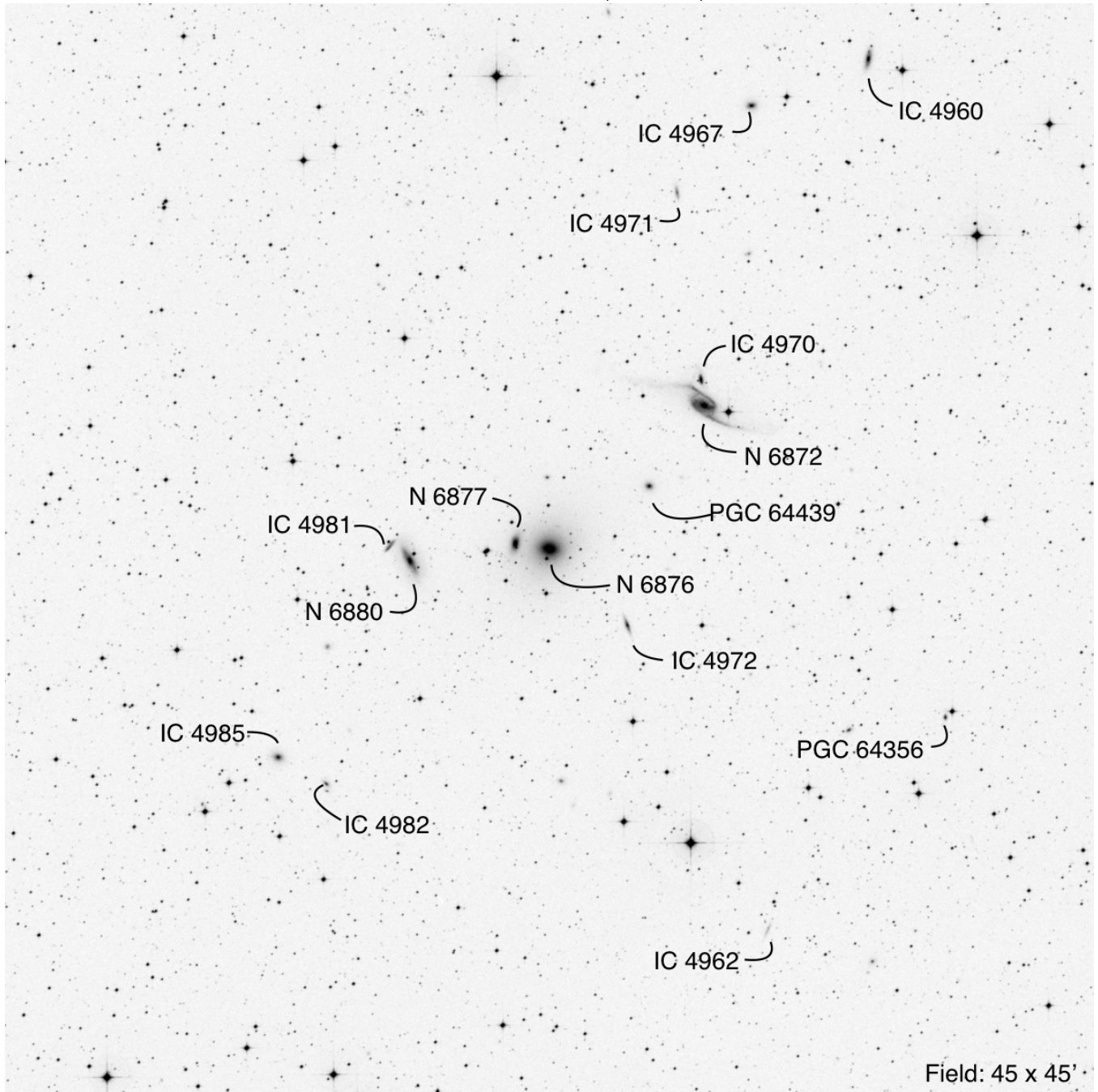


RA	Dec	Mag ₁	# of galaxies	iDSA
20 03 42.0	-54 54 35	13.1	5	101

NGC 6876 (Pavo)



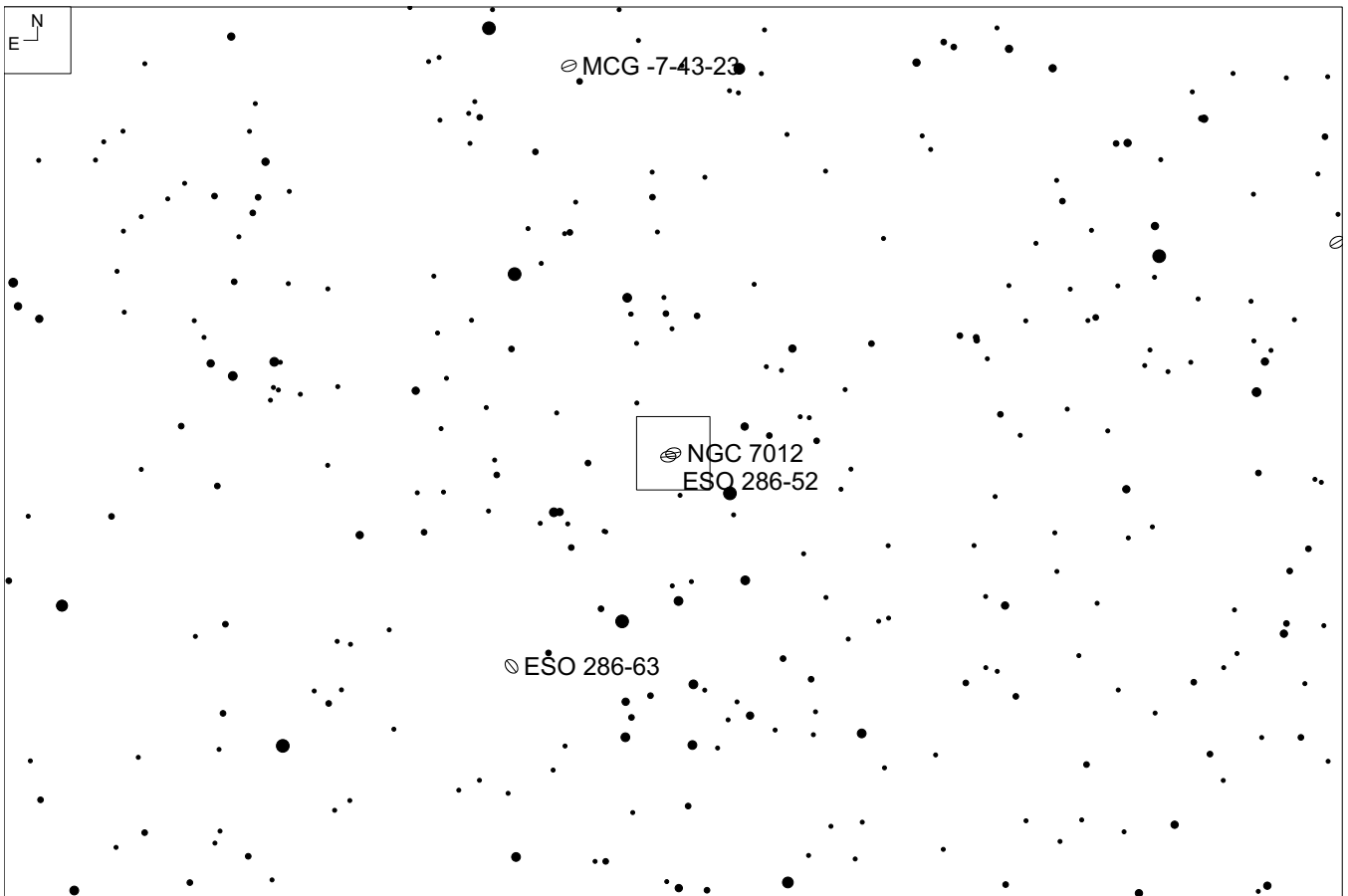
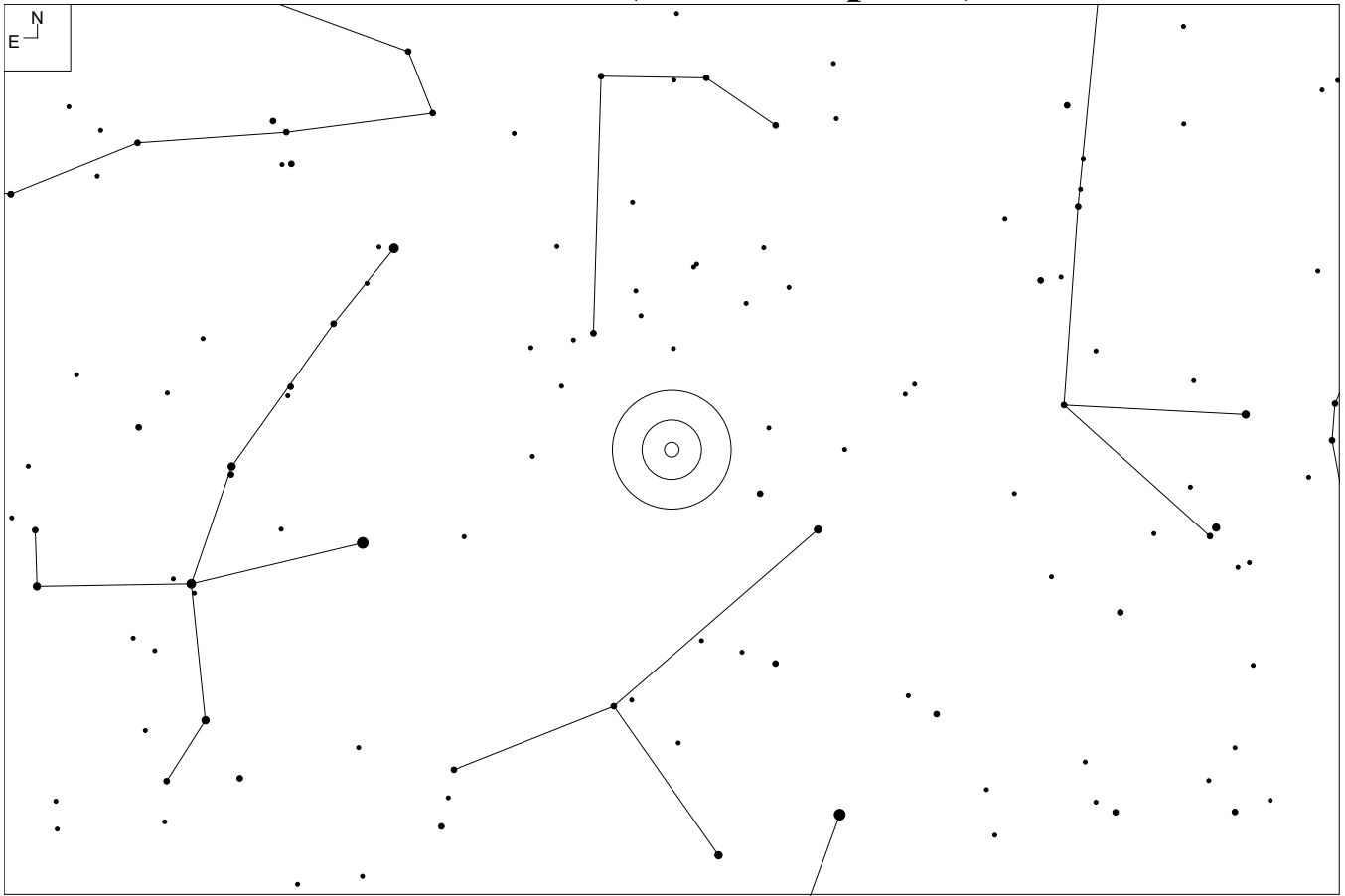
NGC 6876 (Pavo)



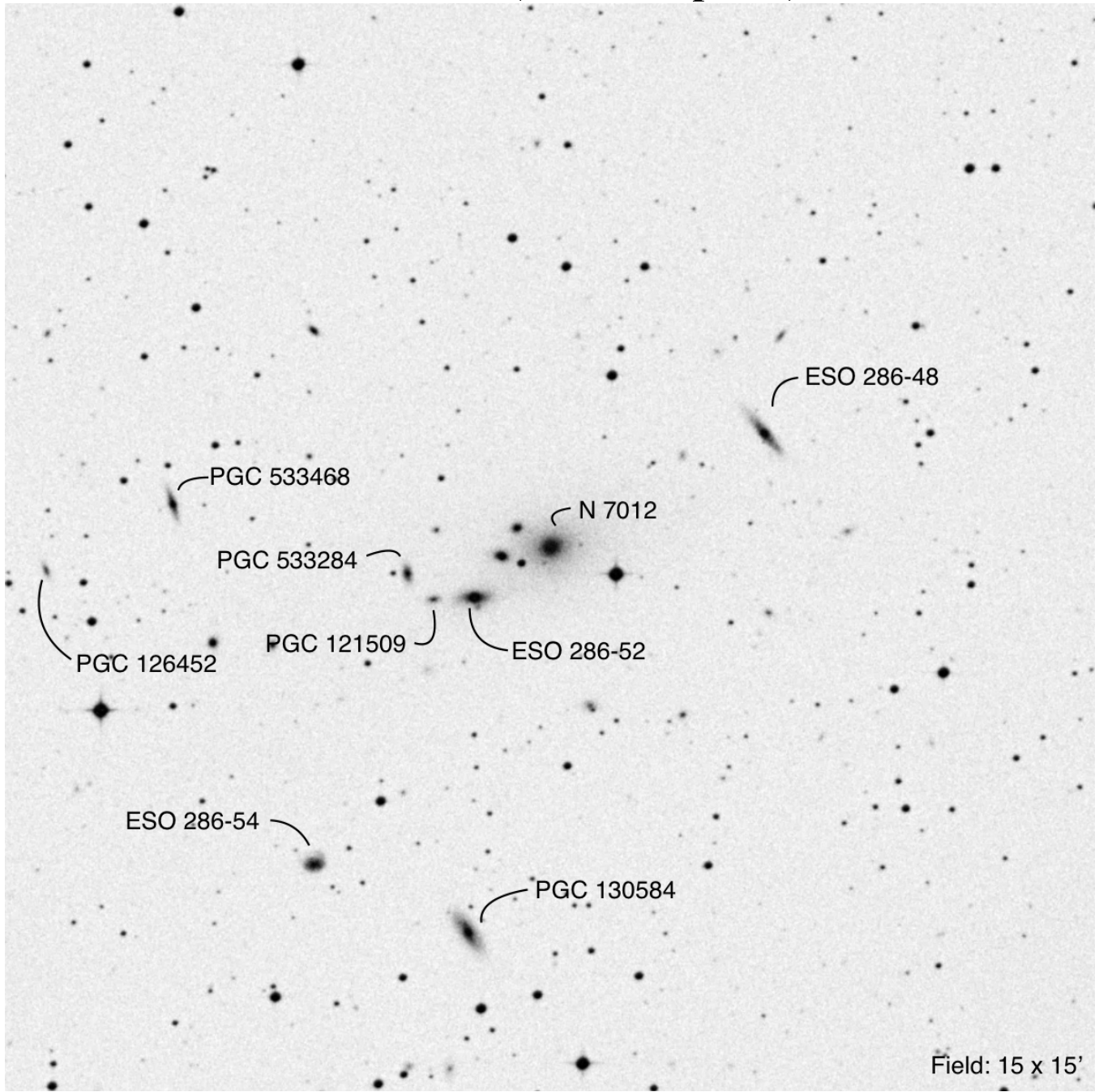
Field: 45 x 45'

RA	Dec	Mag ₁	# of galaxies	iDSA
20 18 19.2	-70 51 32	11.5	15	77

NGC 7012 (Microscopium)

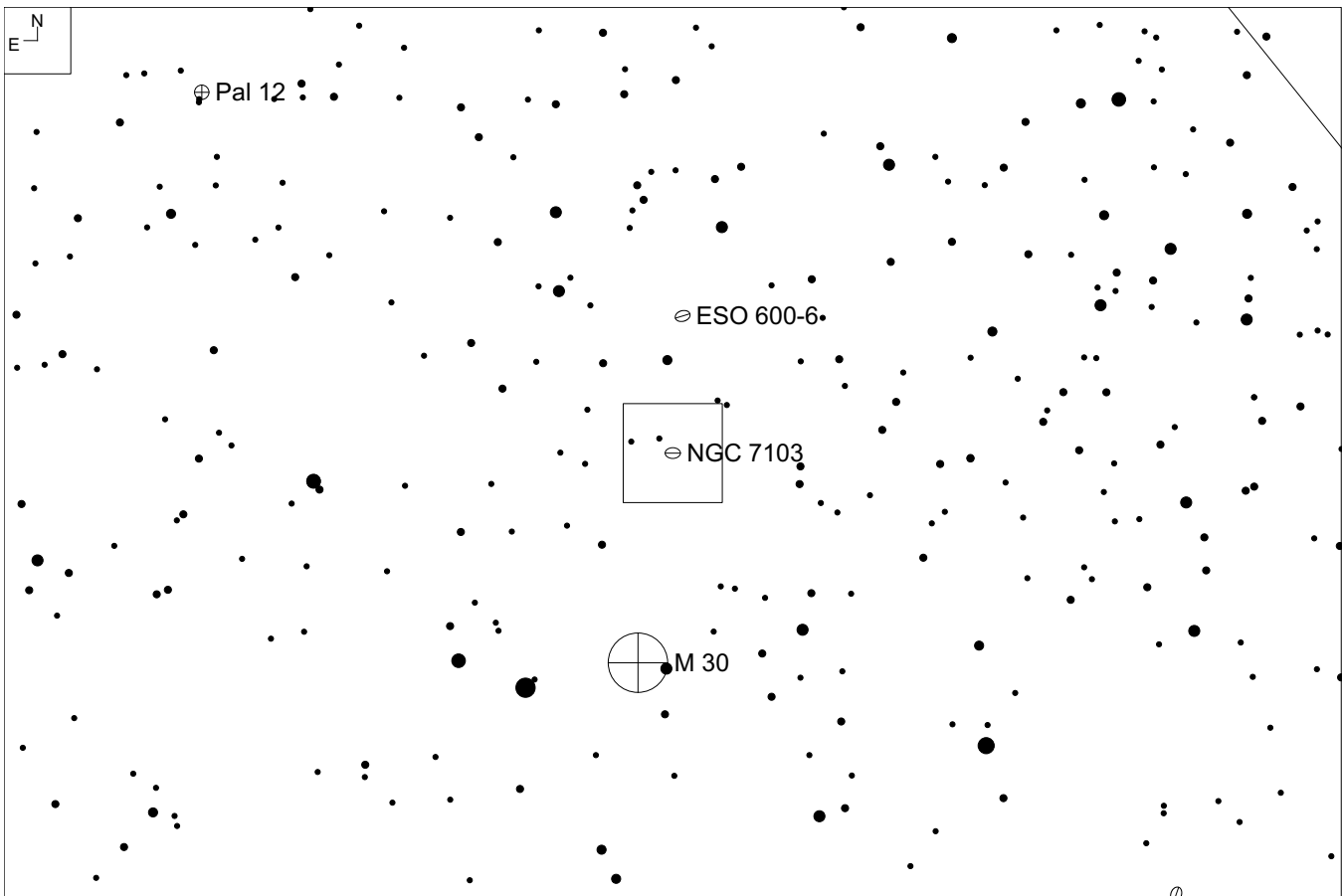
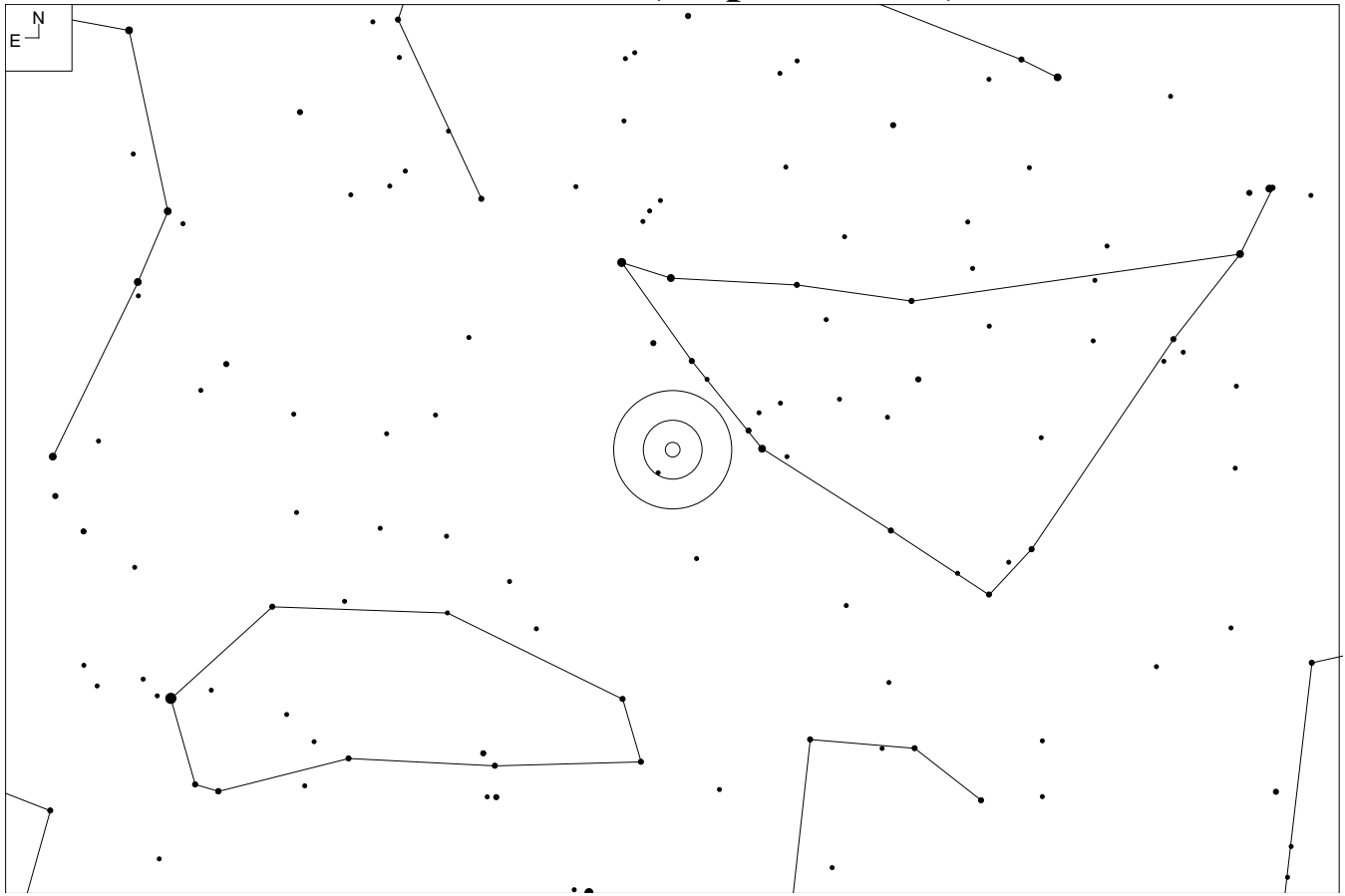


NGC 7012 (Microscopium)

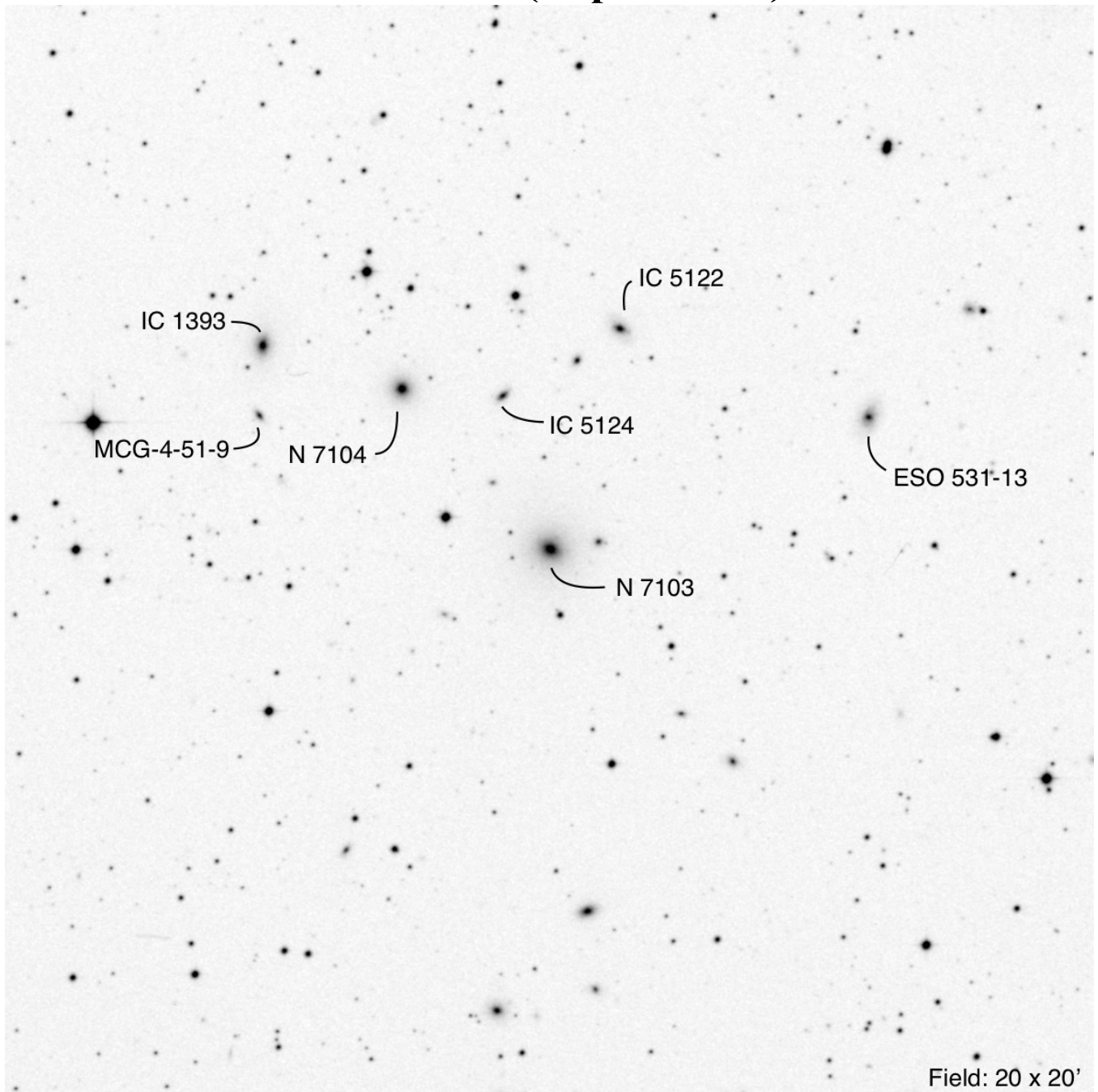


RA	Dec	Mag ₁	# of galaxies	iDSA
21 06 45.0	-44 48 53	13.7	9	89

NGC 7103 (Capricornus)

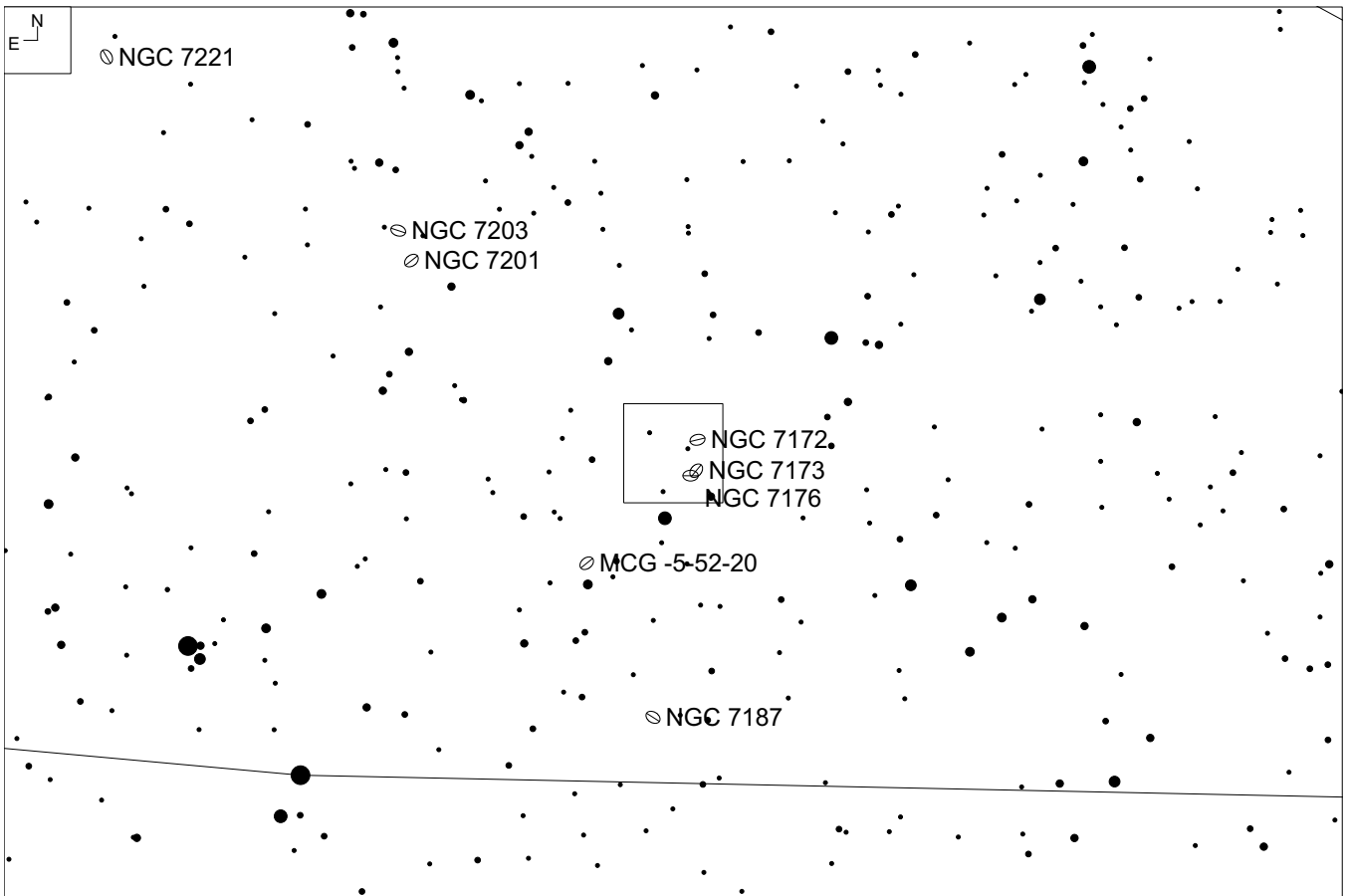
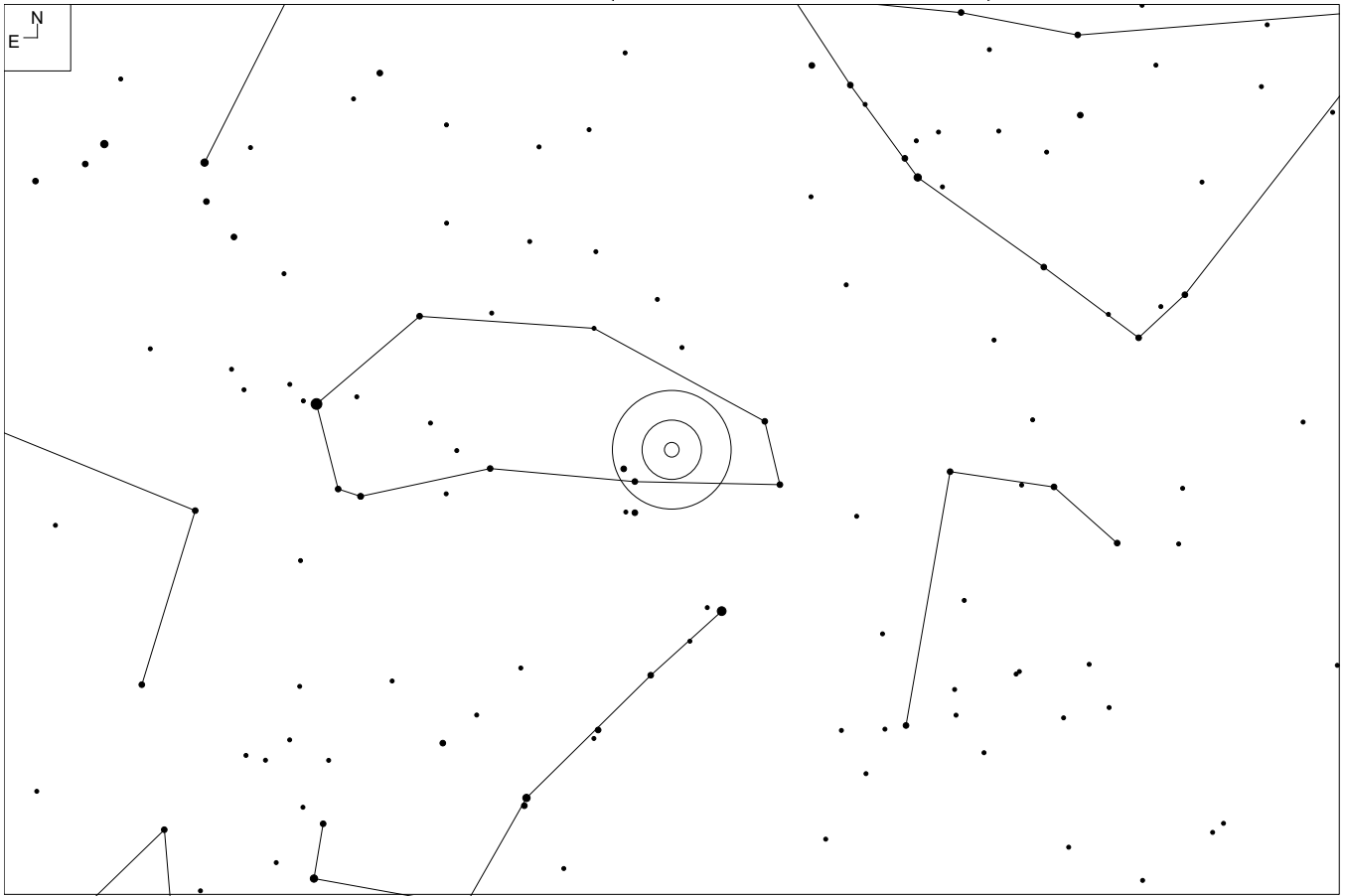


NGC 7103 (Capricornus)

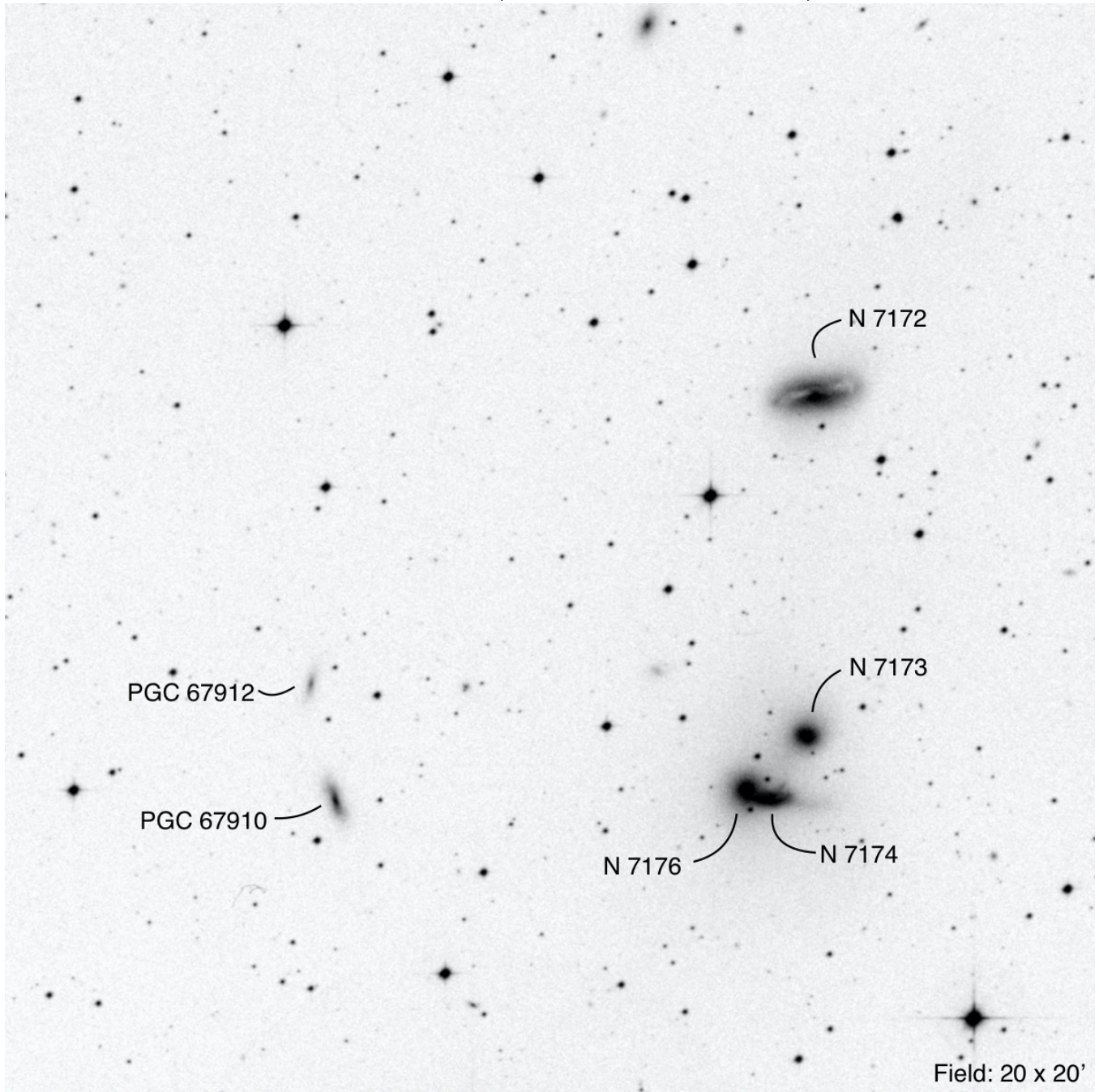


RA	Dec	Mag ₁	# of galaxies	iDSA
21 39 51.4	-22 28 25	12.6	7	77

NGC 7176 (Pisces Austrinus)

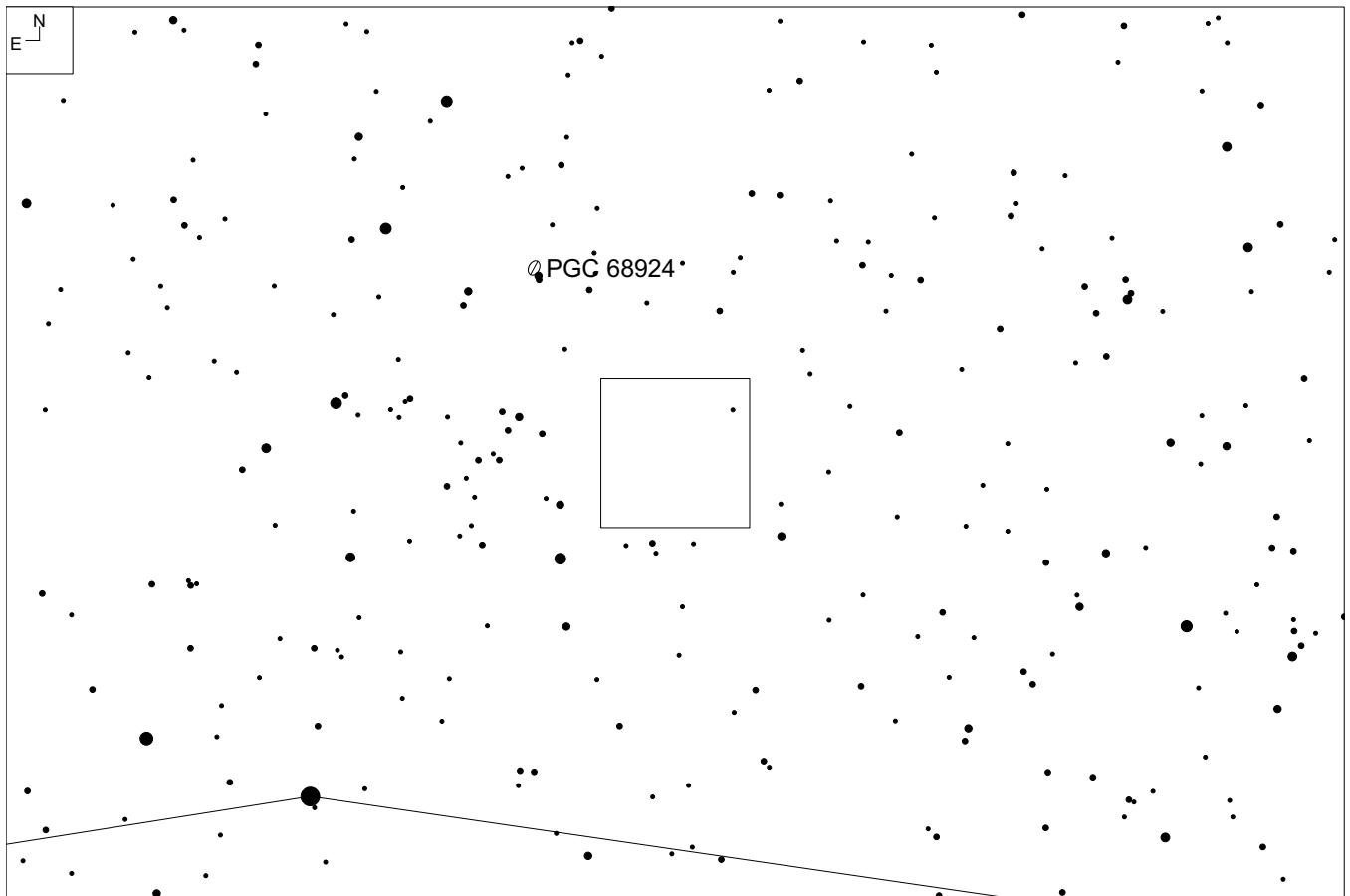
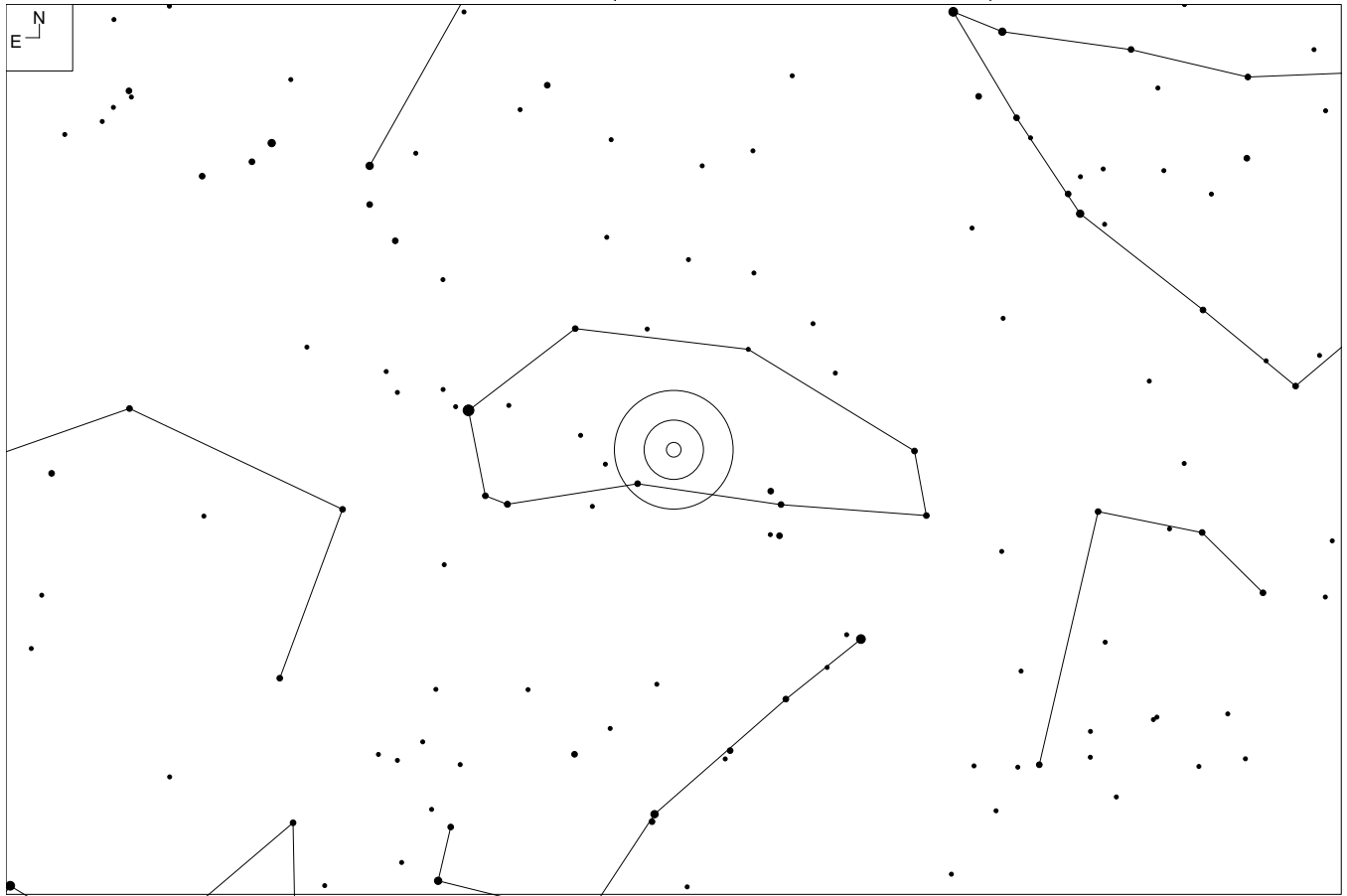


NGC 7176 (Pisces Austrinus)

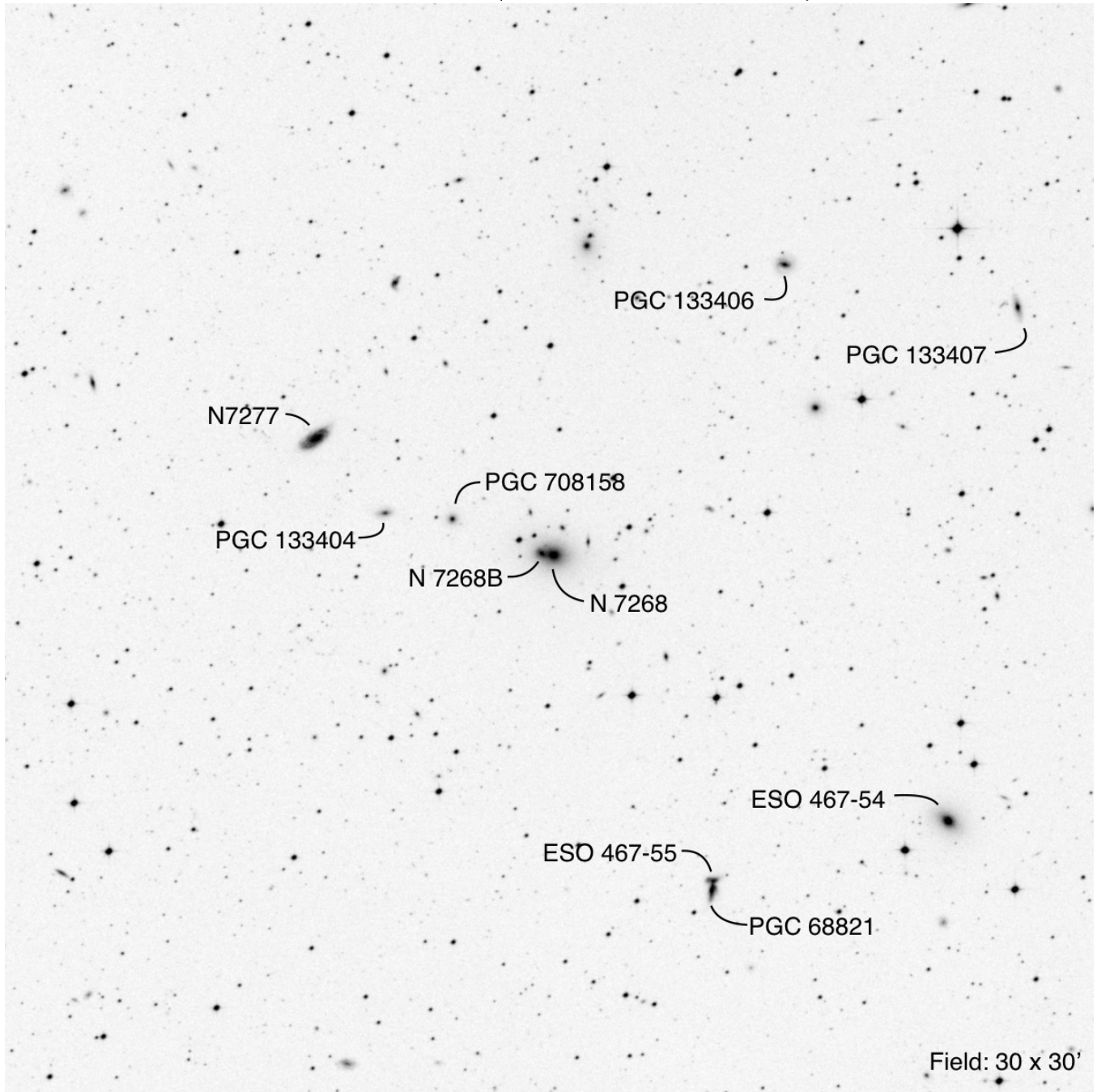


RA	Dec	Mag ₁	# of galaxies	iDSA
22 02 25.0	-31 54 54	11.1	6	76, 77

NGC 7268 (Pisces Austrinus)

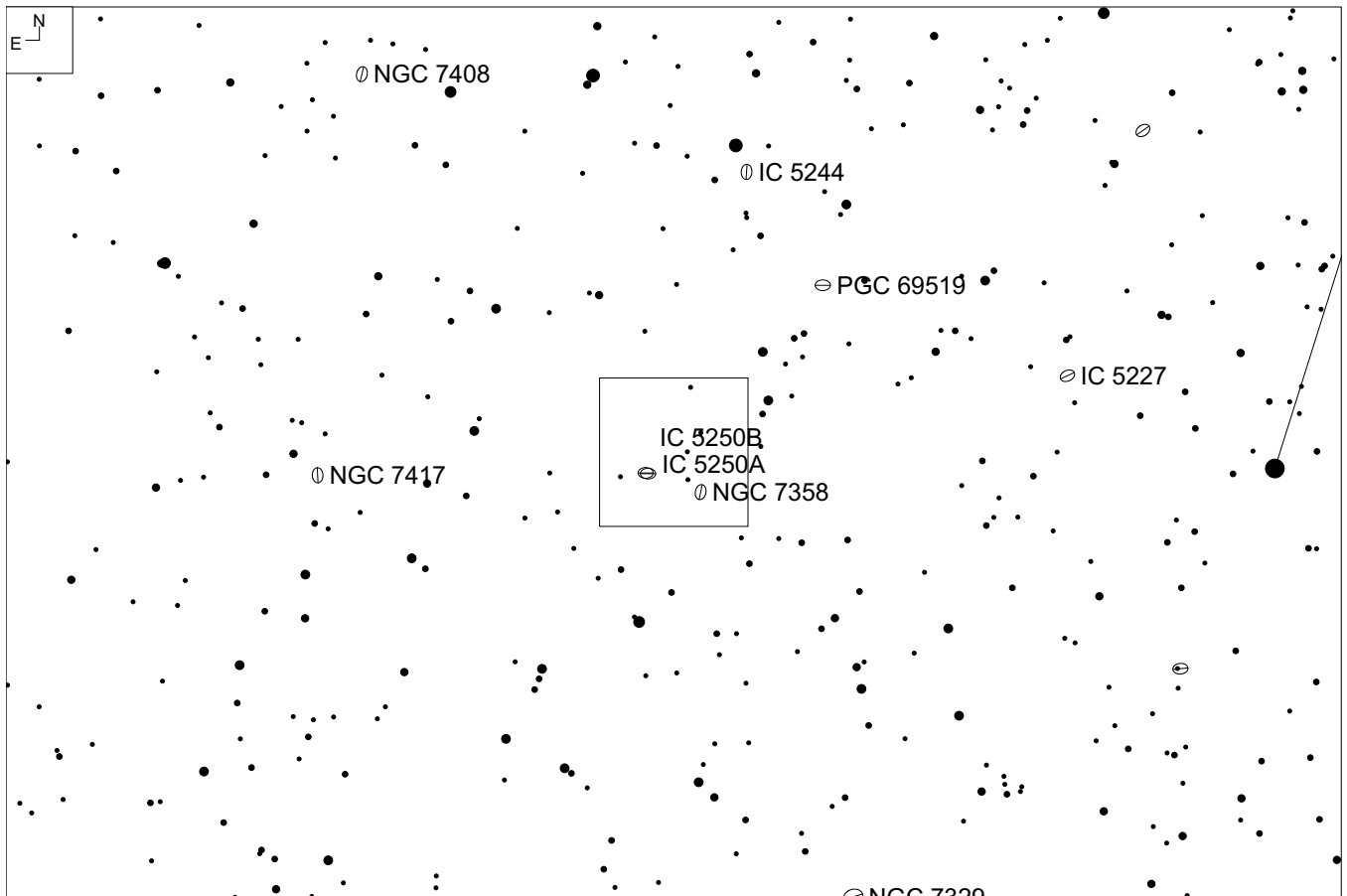
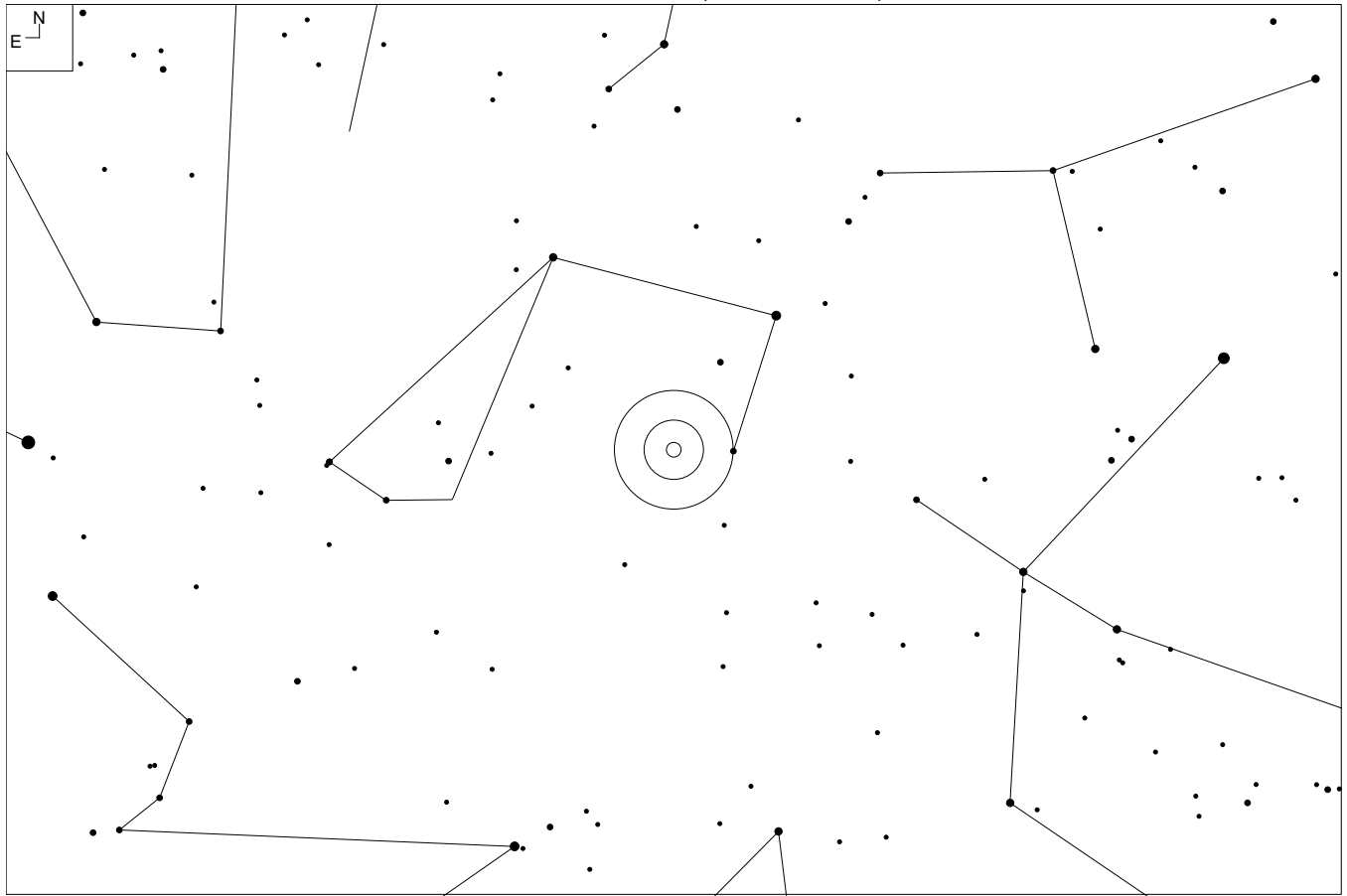


NGC 7268 (Pisces Austrinus)

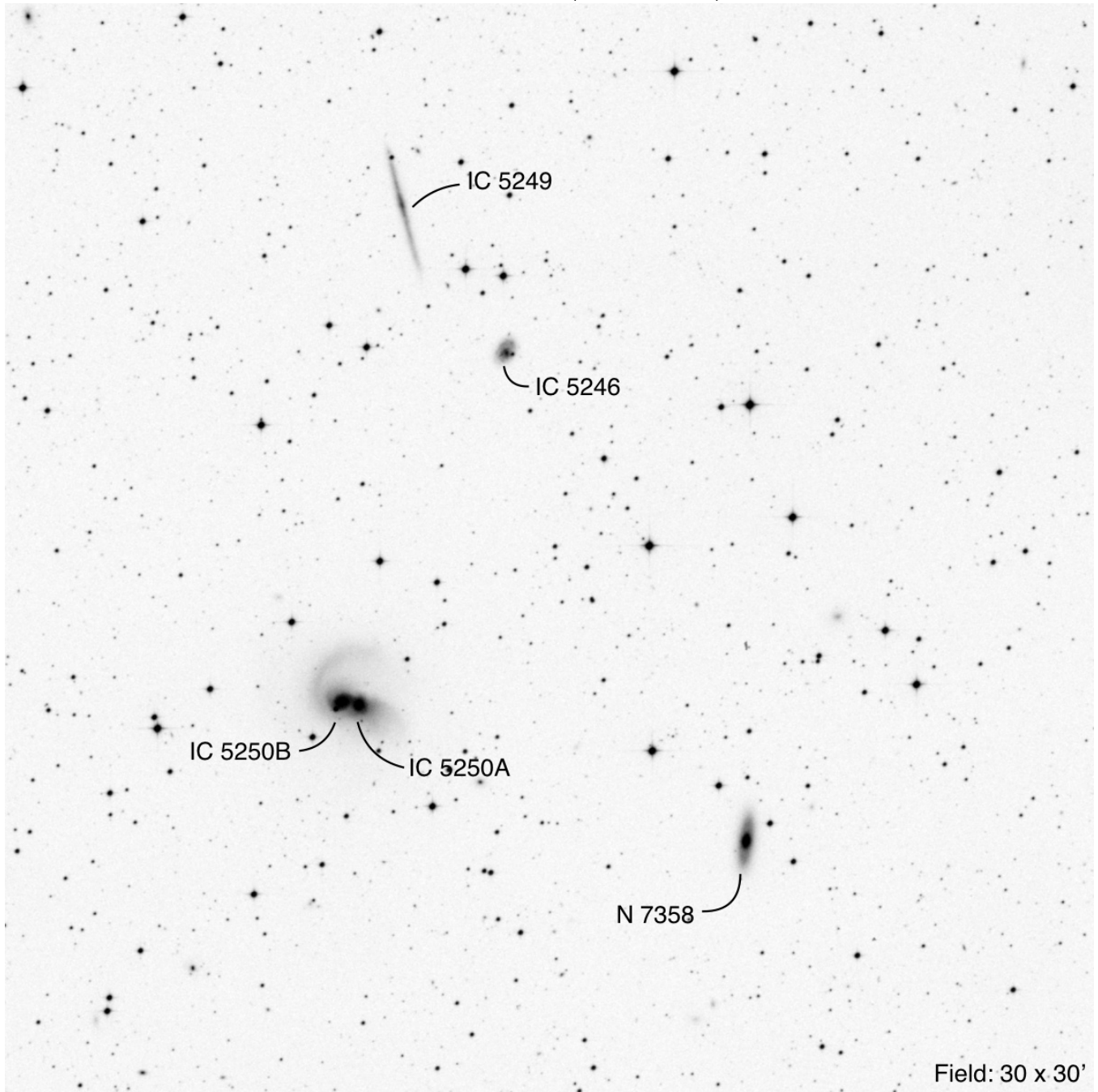


RA	Dec	Mag ₁	# of galaxies	iDSA
22 25 41.2	-31 25 52	14.1	10	76

IC 5250A (Tucana)

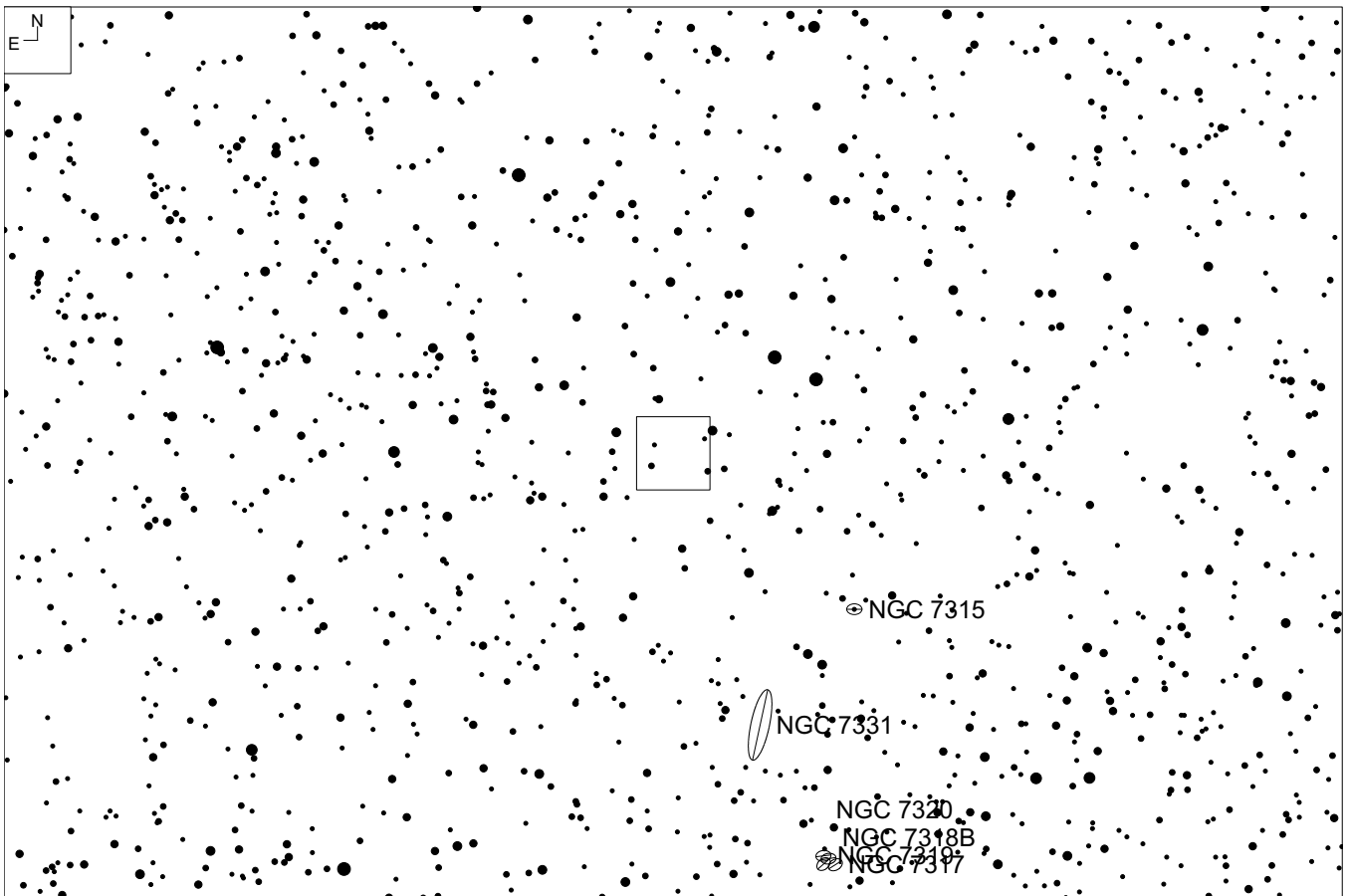
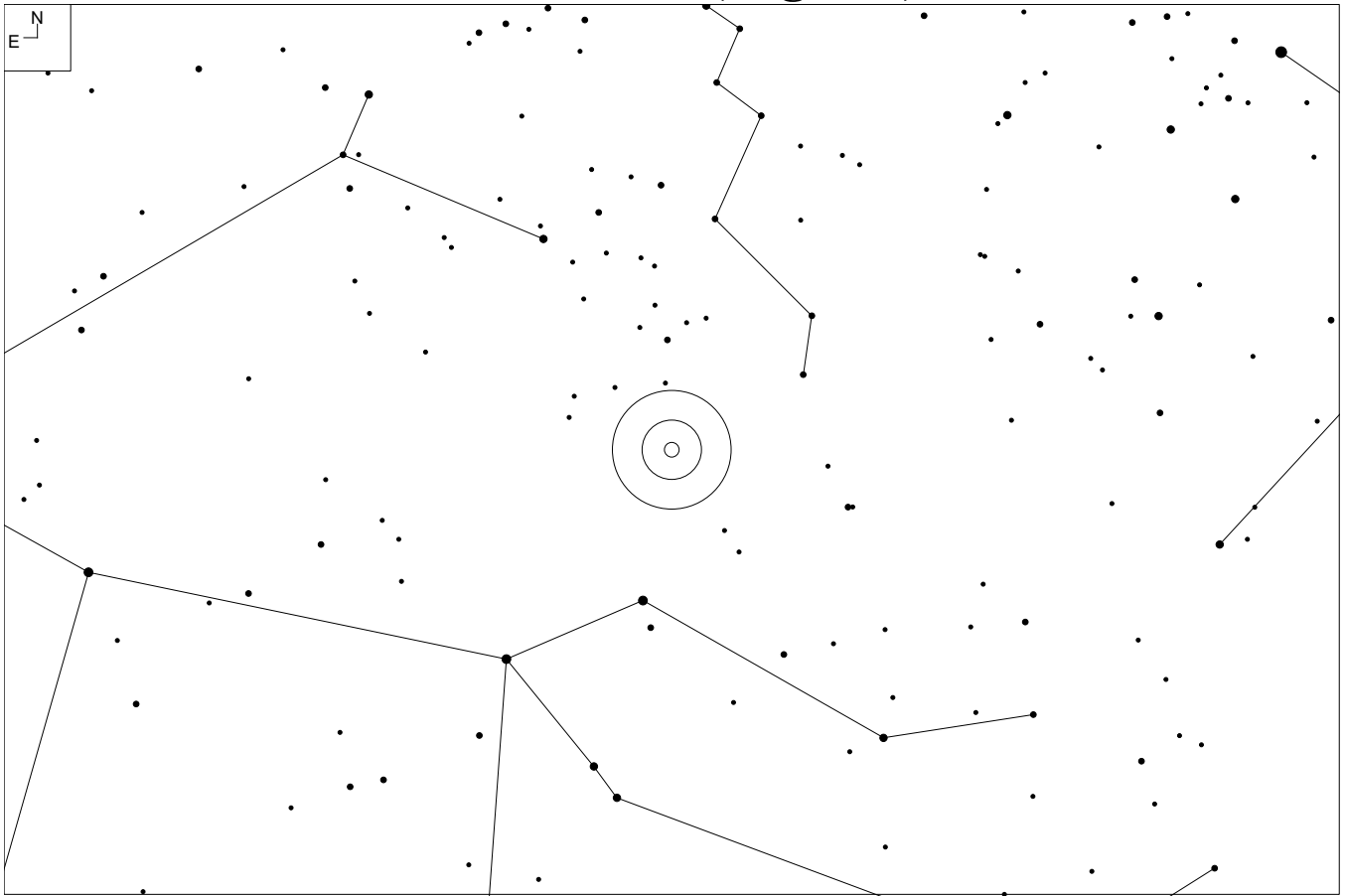


IC 5250A (Tucana)

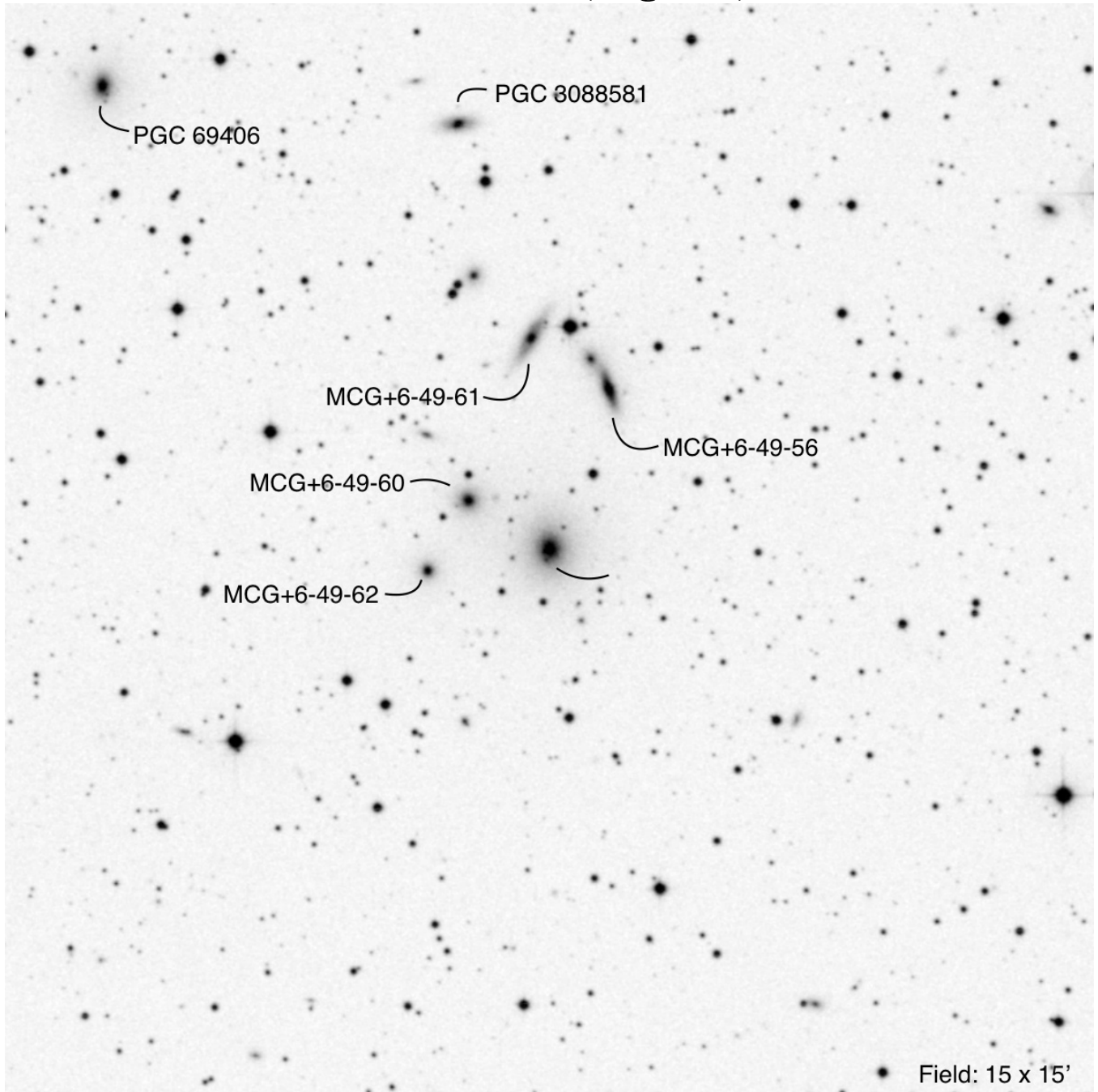


RA	Dec	Mag ₁	# of galaxies	iDSA
22 46 28.0	-64 59 17	11.1	5	100

UGC 12127 (Pegasus)



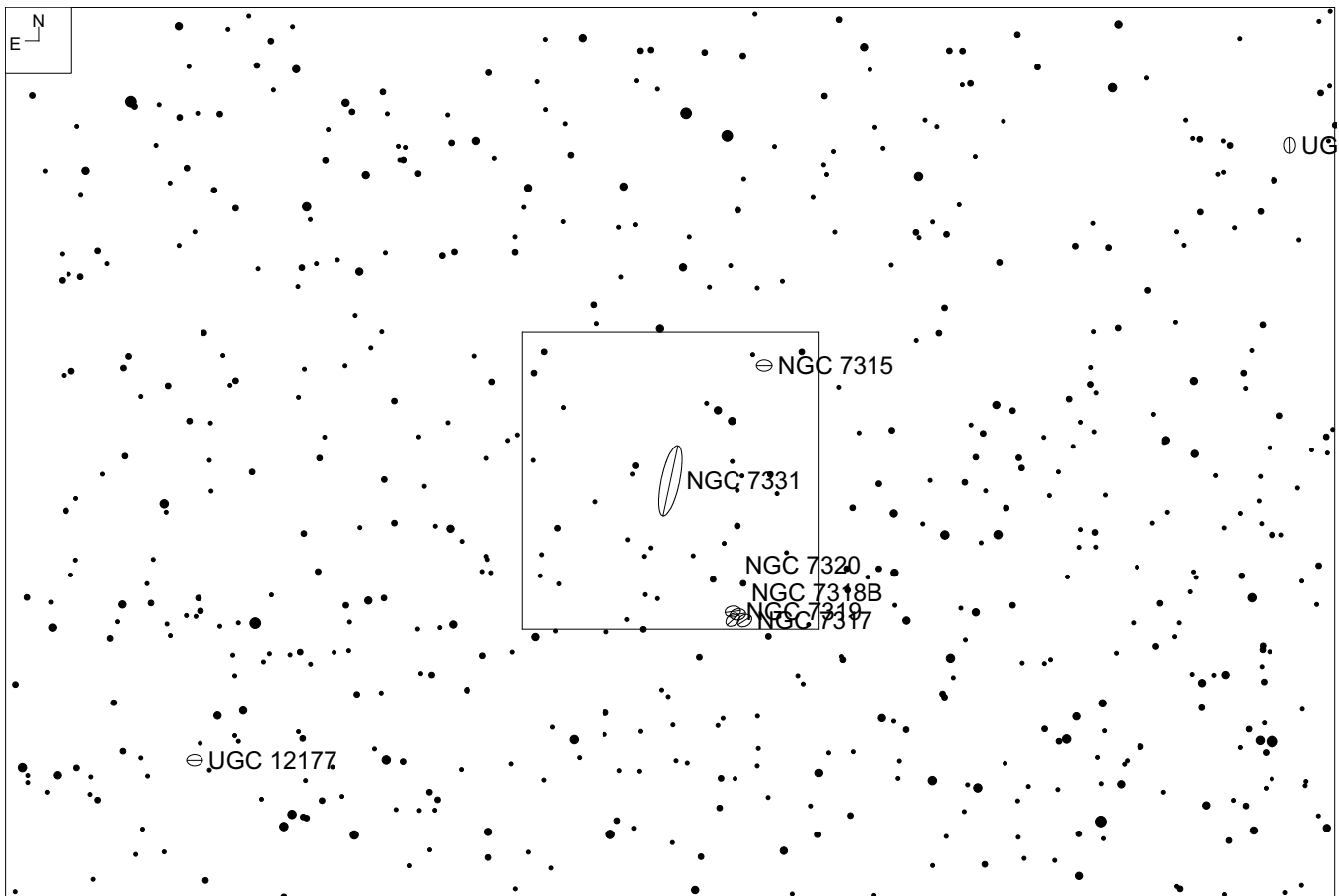
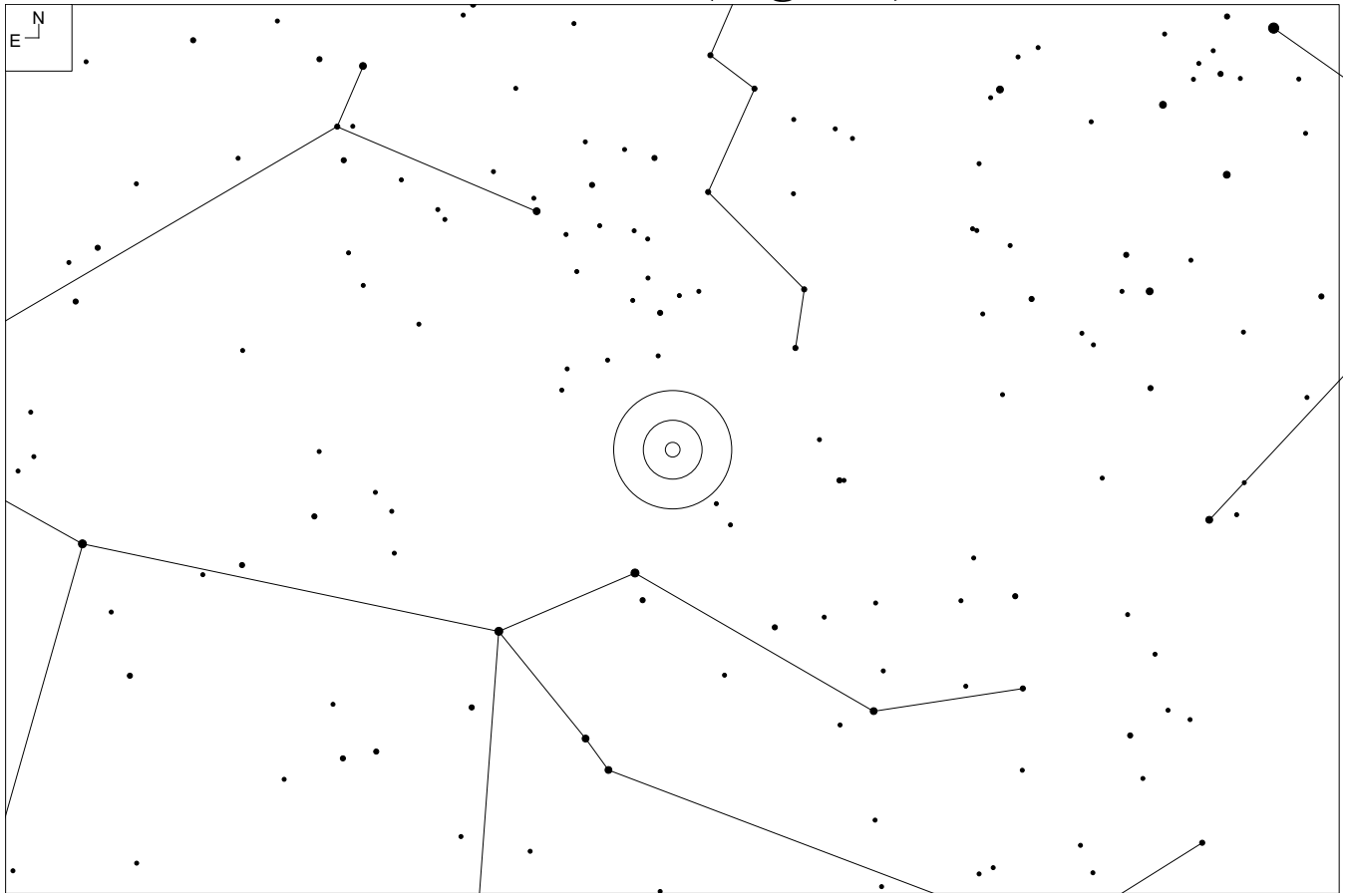
UGC 12127 (Pegasus)



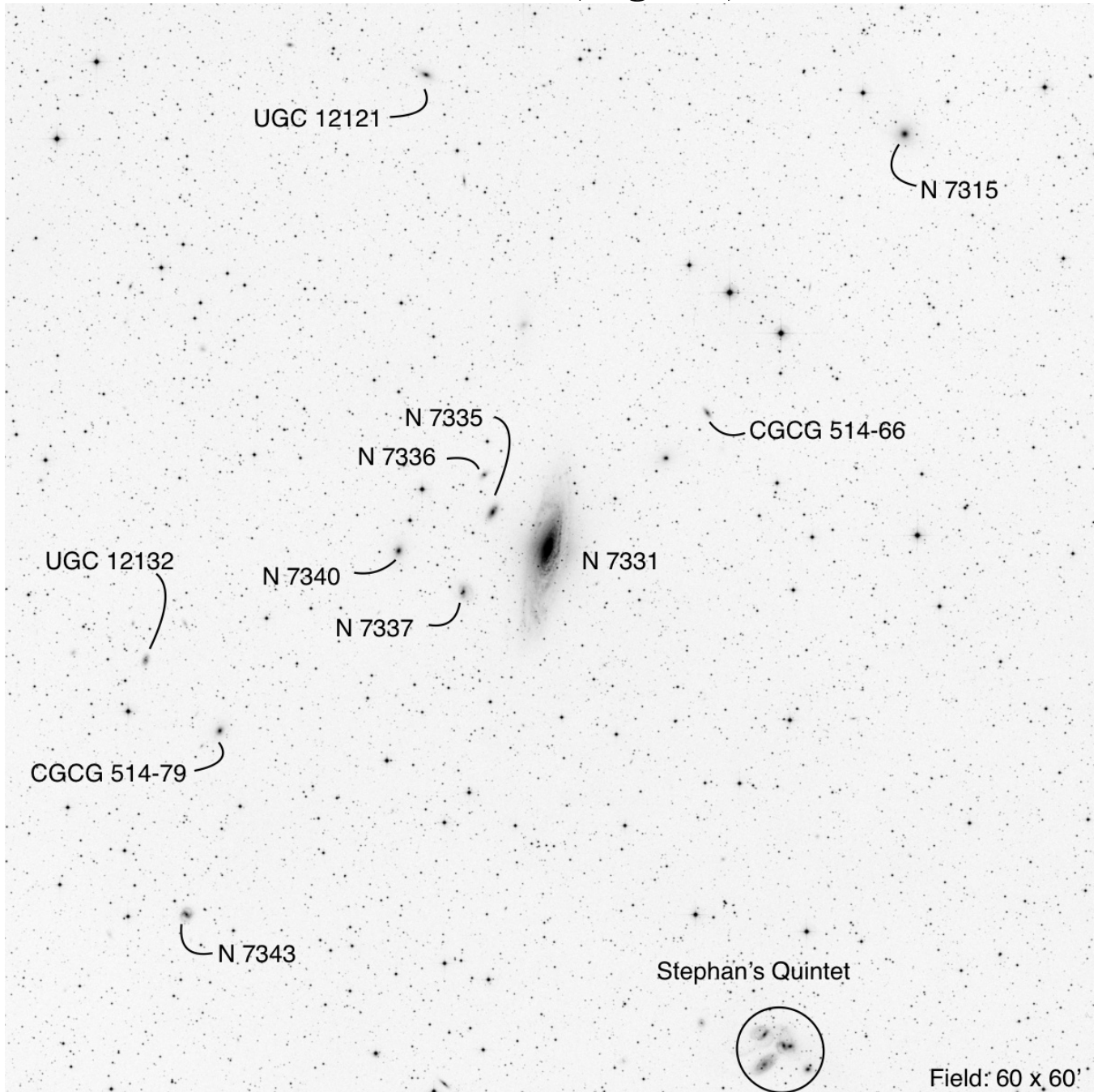
Field: 15 x 15'

RA	Dec	Mag ₁	# of galaxies	iDSA
22 38 29.4	+35 19 47	15	7	28

NGC 7331 (Pegasus)



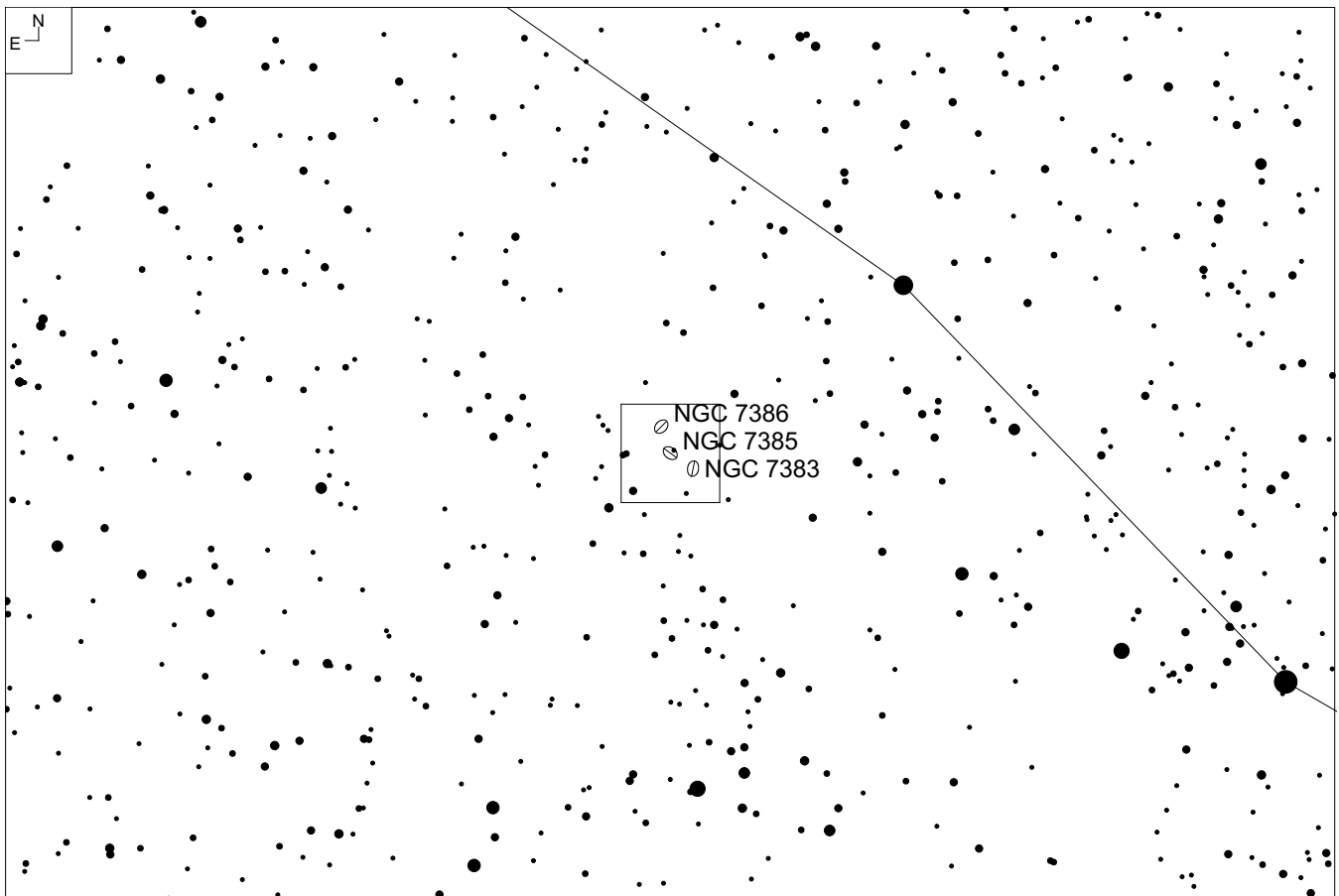
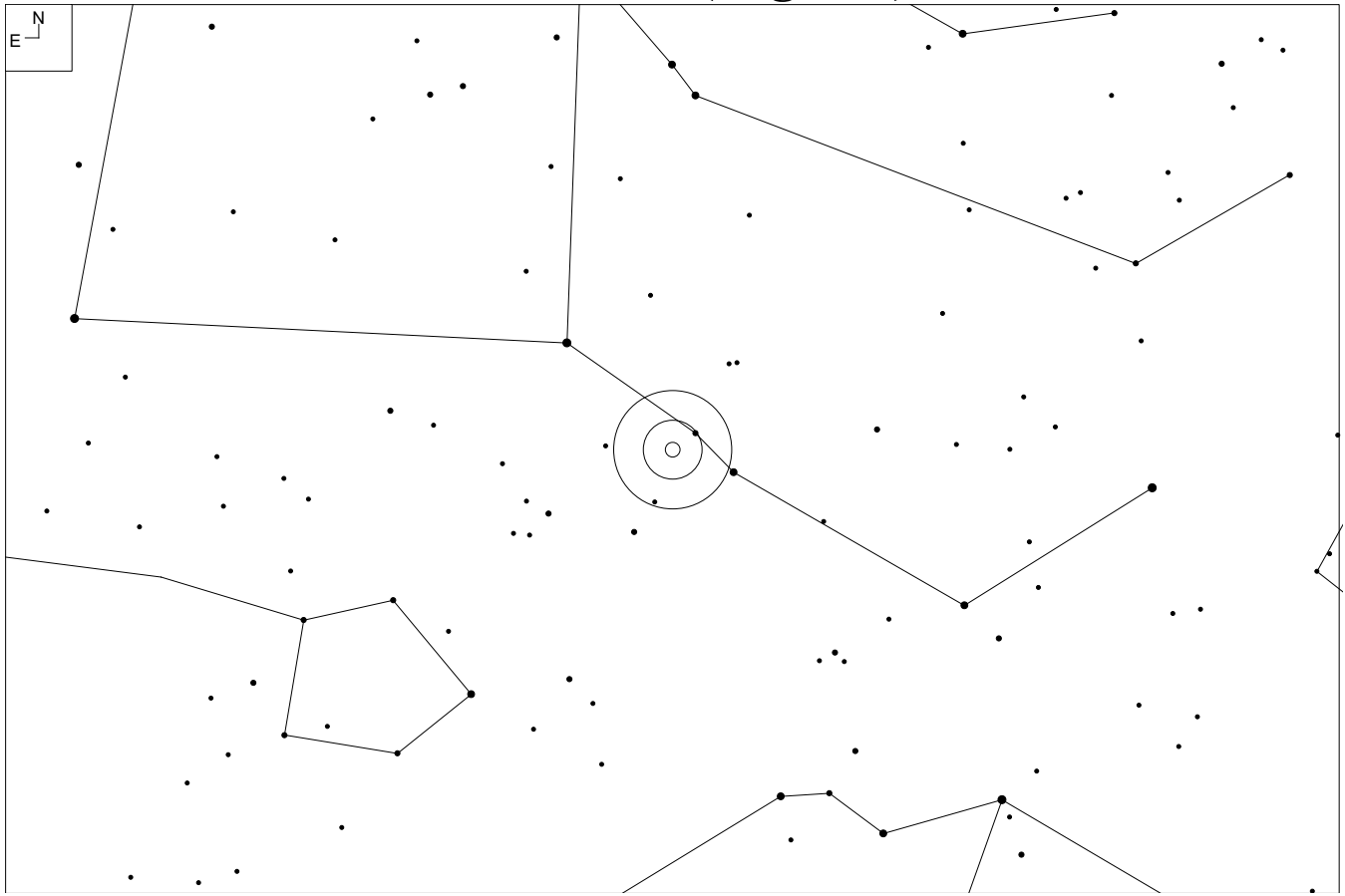
NGC 7331 (Pegasus)



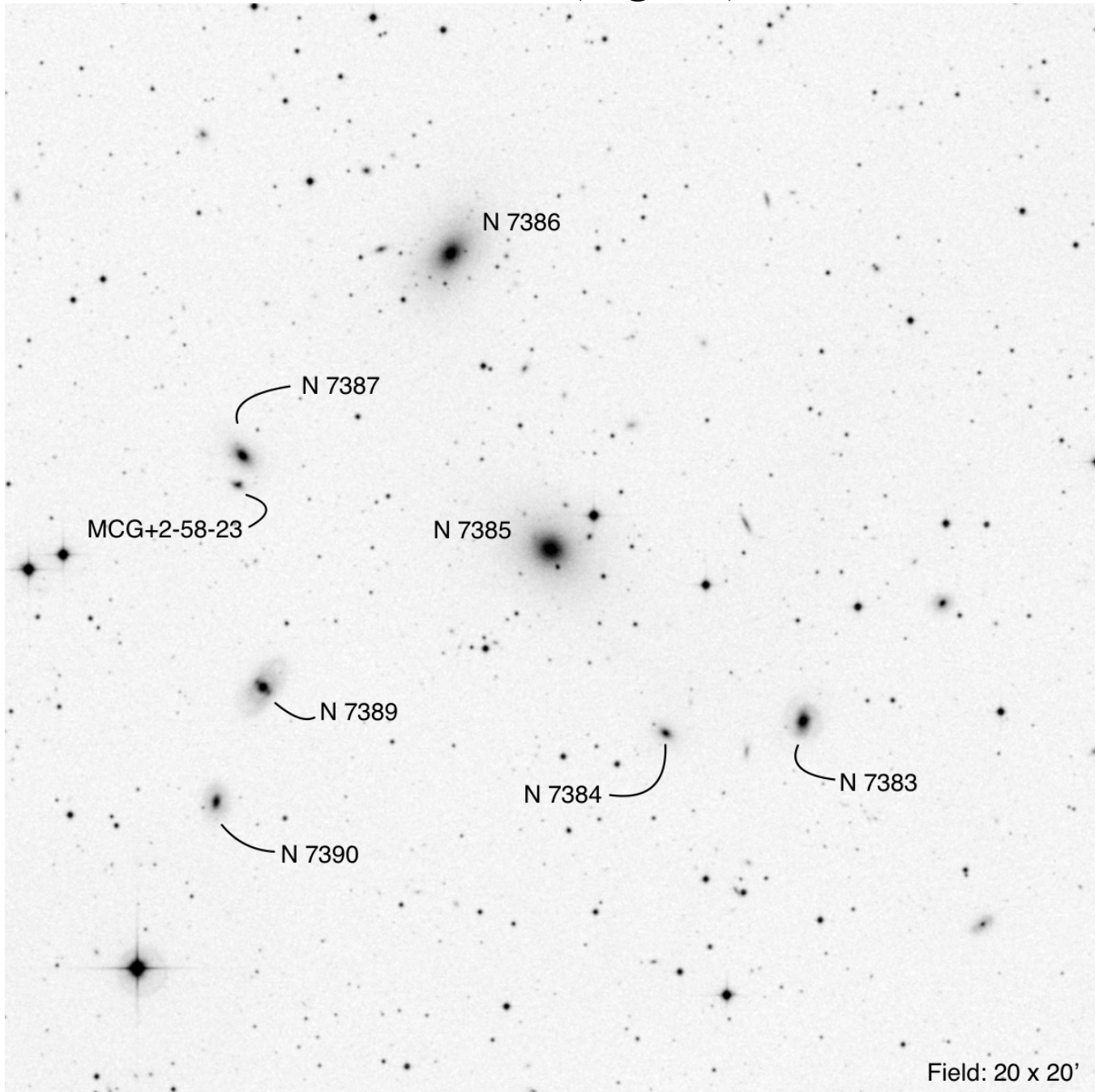
RA	Dec	Mag ₁	# of galaxies	iDSA
22 37 04.5	+34 25 00	9.5	11	28, D13

Deer Lick group

NGC 7385 (Pegasus)



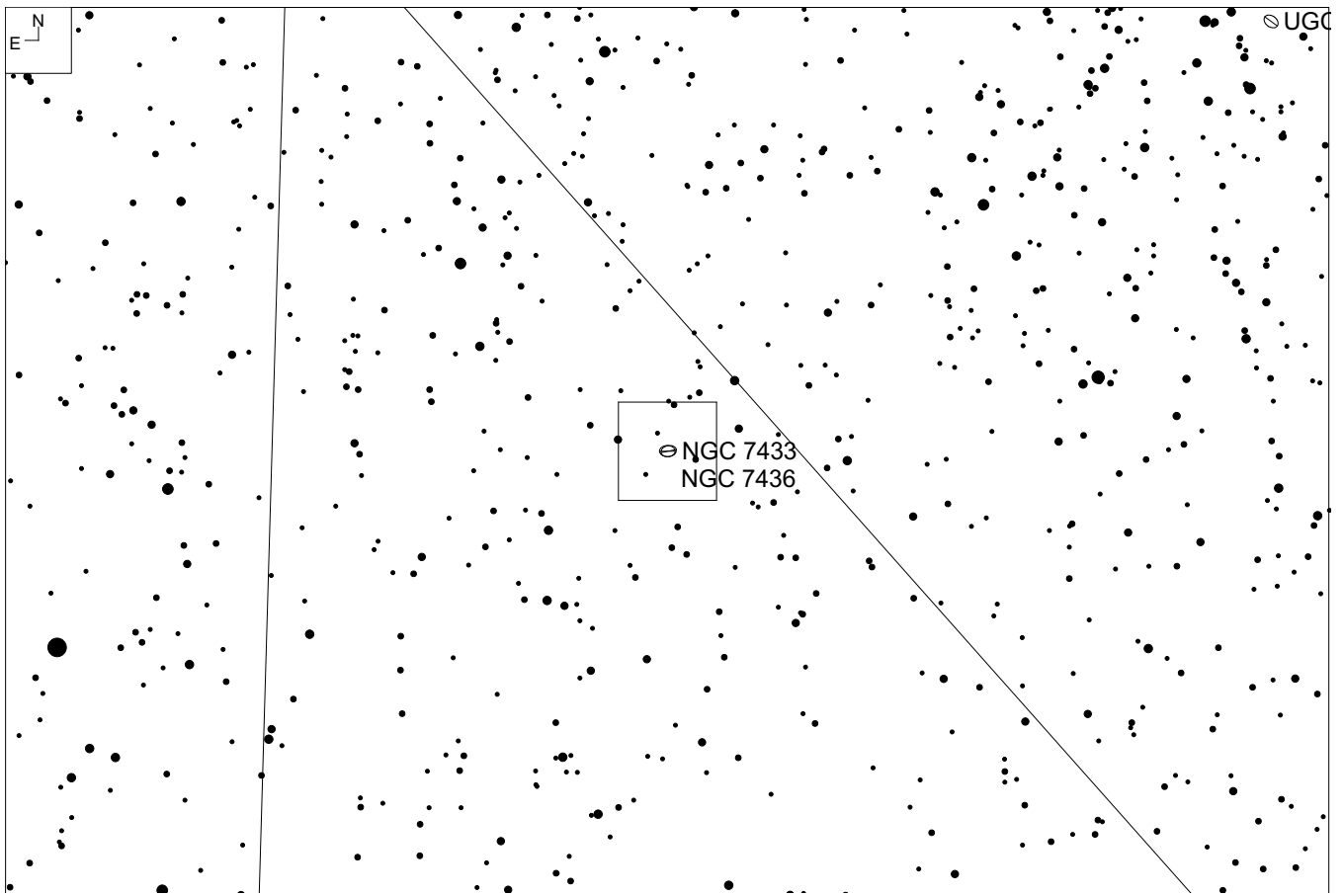
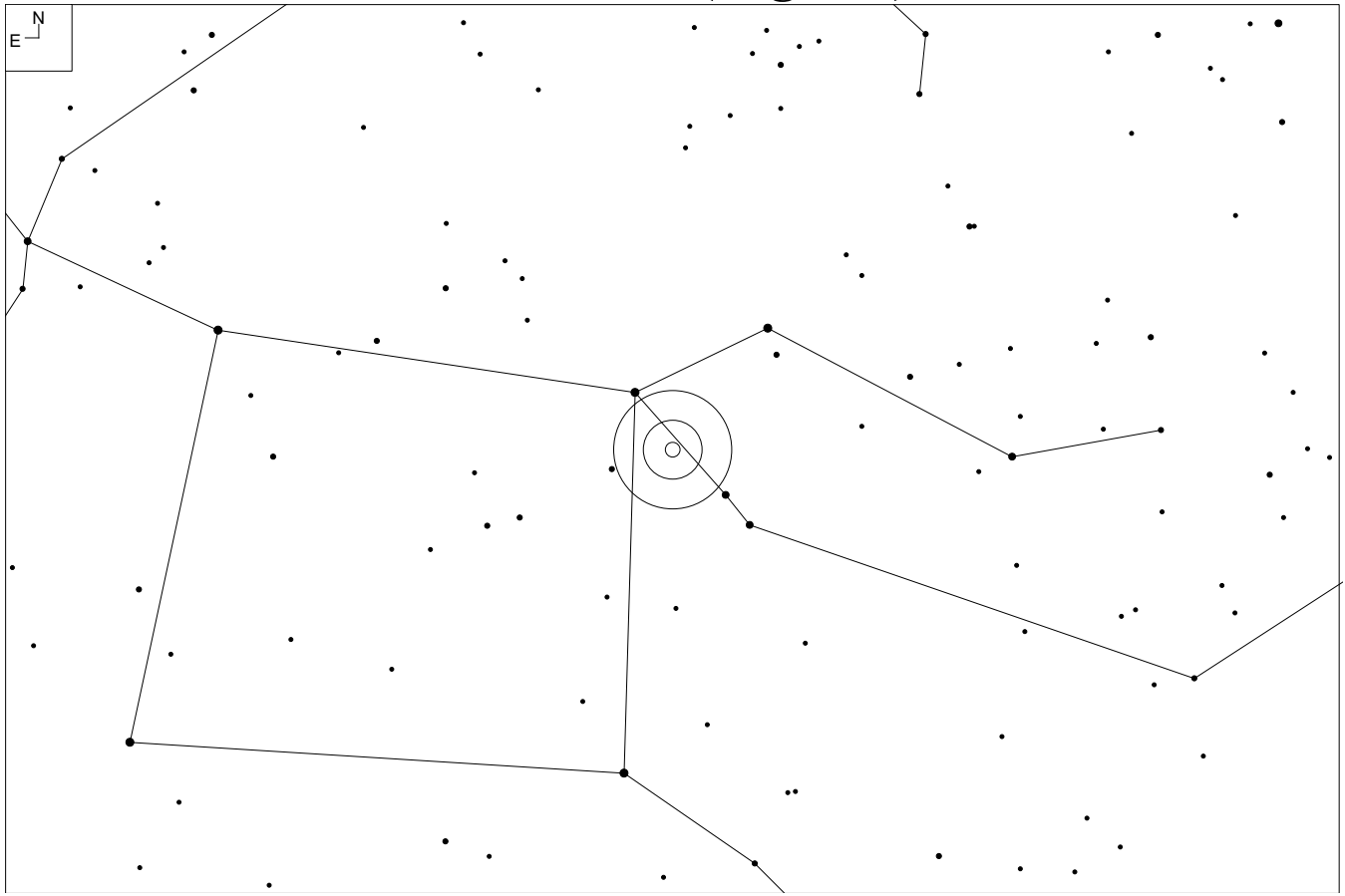
NGC 7385 (Pegasus)



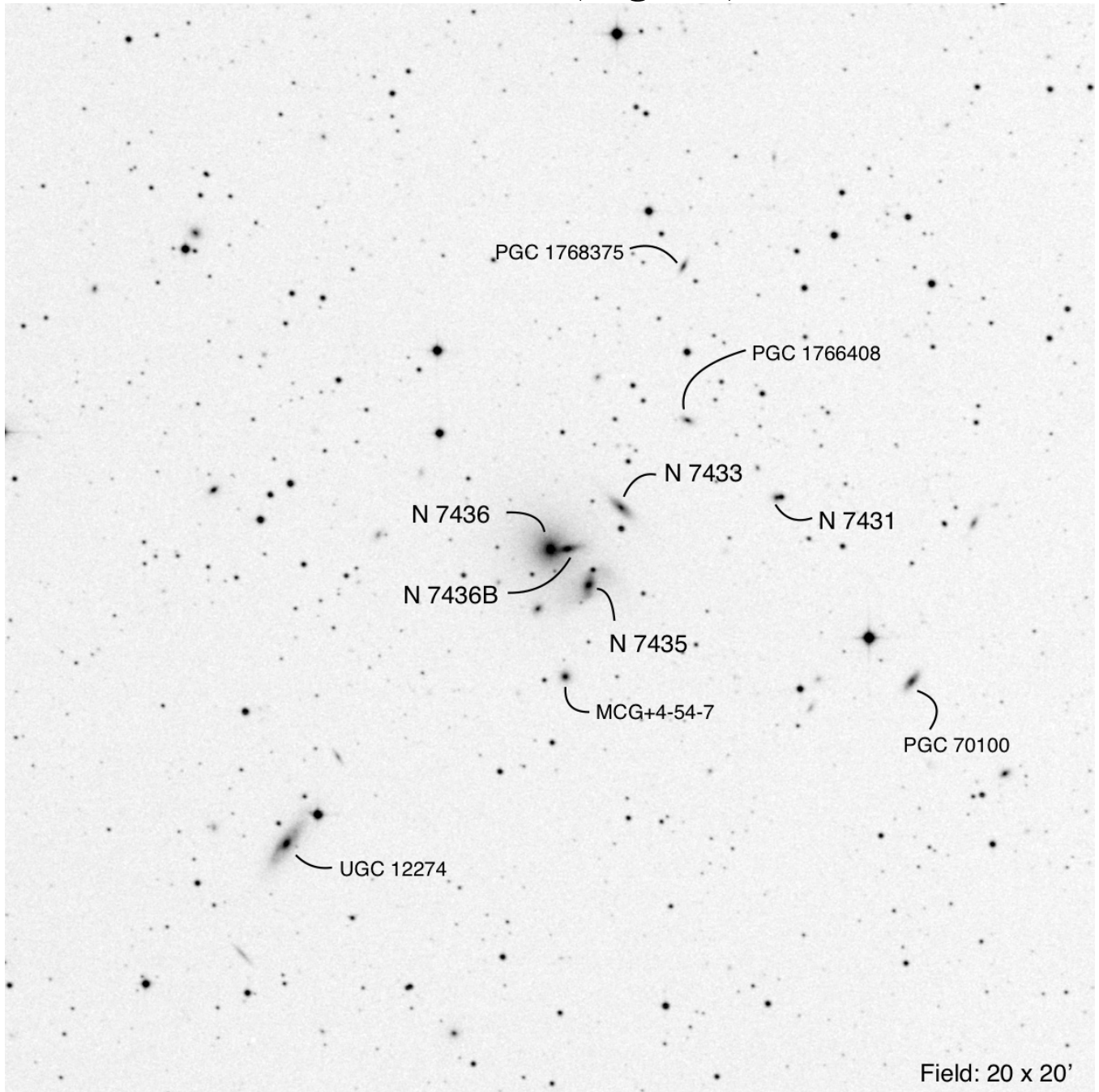
Field: 20 x 20'

RA	Dec	Mag ₁	# of galaxies	iDSA
22 49 54.6	+11 36 31	12.0	8	40

NGC 7436 (Pegasus)

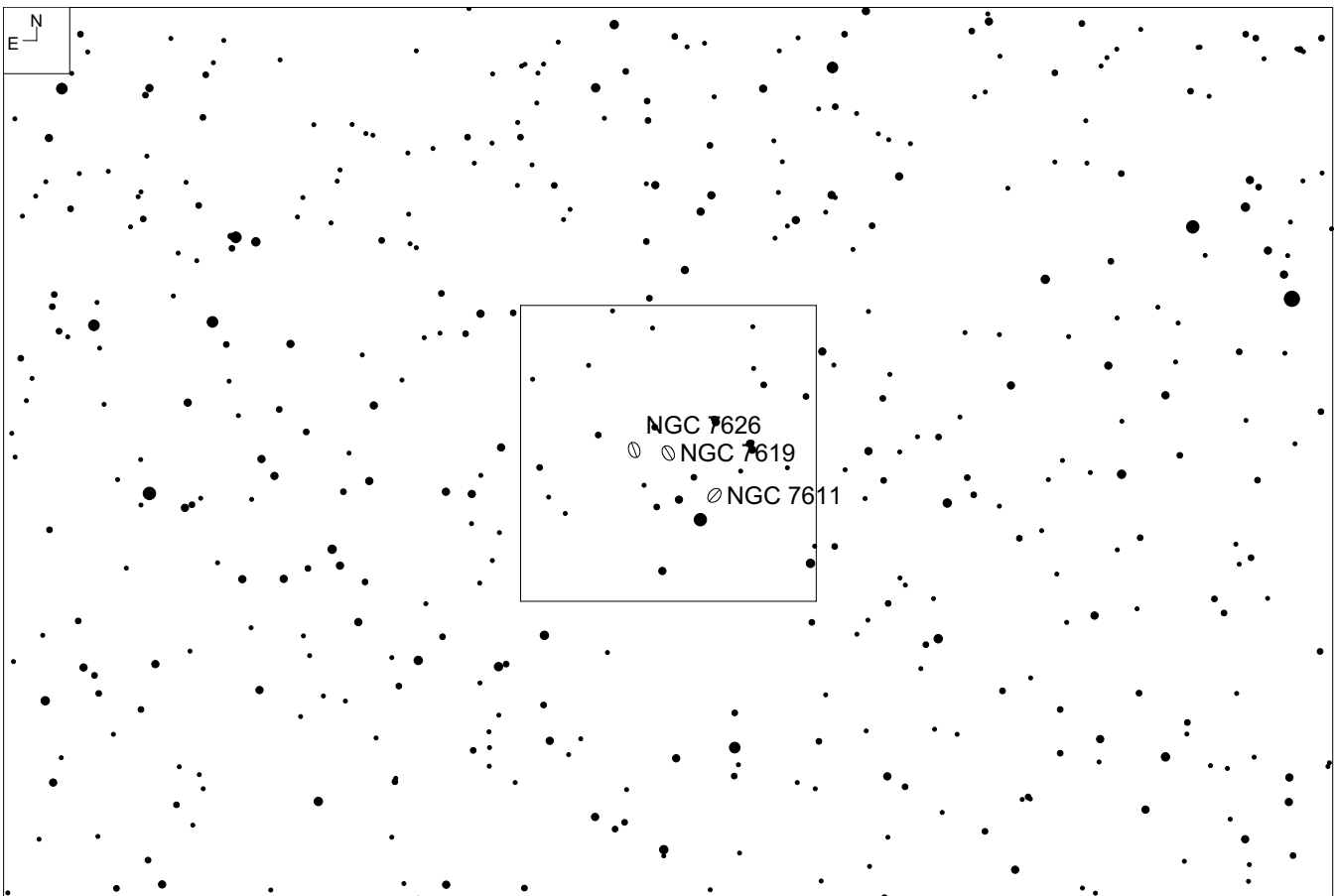
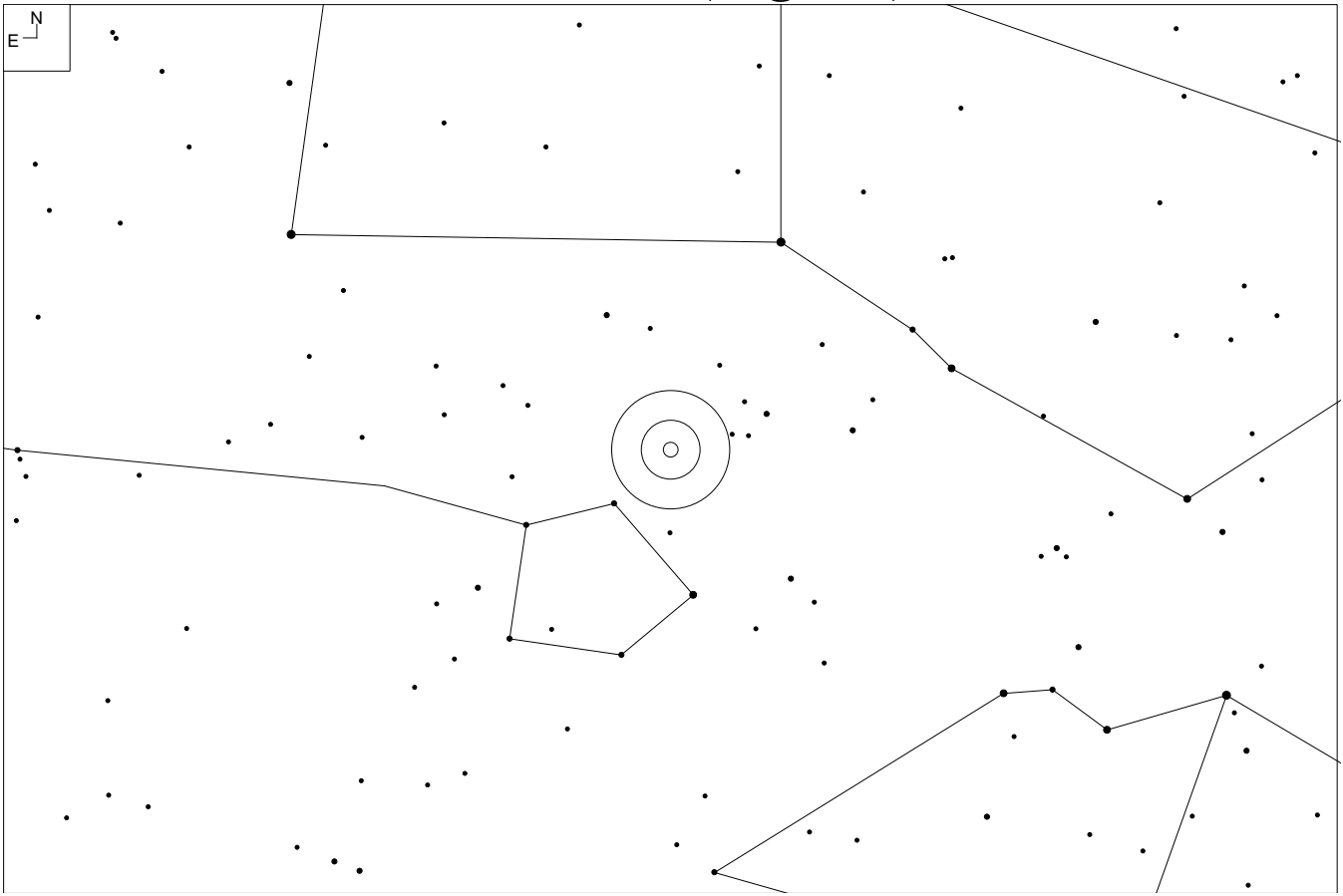


NGC 7436 (Pegasus)

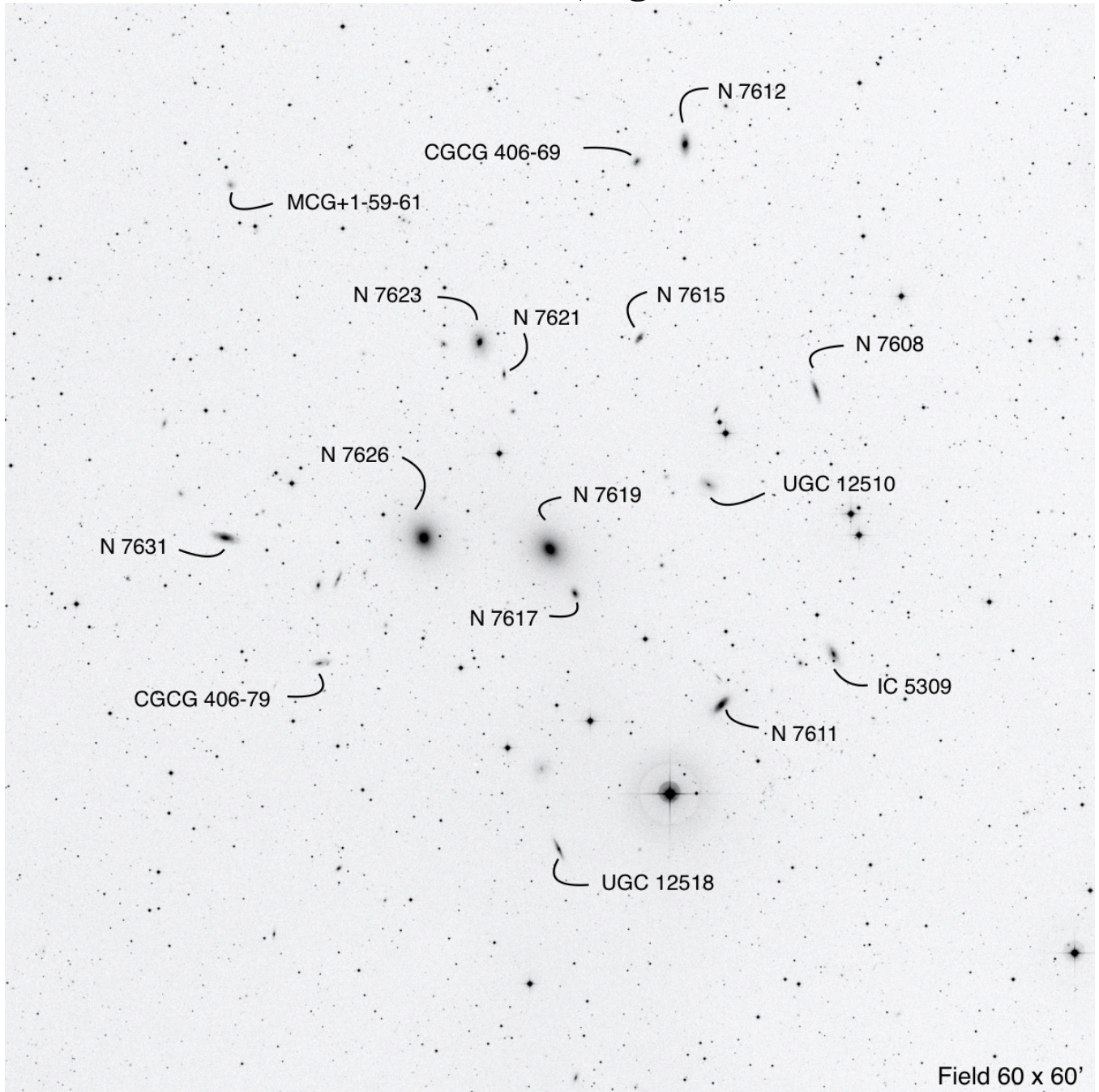


RA	Dec	Mag ₁	# of galaxies	iDSA
22 57 56.0	+26 09 00	13.8	10	28

NGC 7619 (Pegasus)



NGC 7619 (Pegasus)



RA	Dec	Mag ₁	# of galaxies	iDSA
23 20 14.5	+08 12 23	11.1	16	40, 52

Pegasus 1 Cluster

Astronomical League Galaxy Groups Catalogue

Page	AL	Brightest Member	Other ID	RA	Dec	Const	Mag ₁	#
14	*	NGC 3	Includes Arp 246	00 06 53.9	+08 21 03	Psc	13.3	7
18	*	NGC 383	Pisces chain	01 07 25.2	+32 24 47	Psc	12.4	12
20	*	NGC 507		01 23 19.6	+33 16 39	Psc	11.2	21
26	*	NGC 329		00 58 01.5	-05 04 16	Cet	13.3	6
32	*	NGC 439	AGC 141	01 13 47.3	-31 44 50	Scl	11.4	7
34	*	IC 5370		00 00 09.2	+32 44 18	And	14.9	5
36	*	NGC 68	Includes Arp 113	00 18 18.5	+30 04 18	And	12.9	9
38	*	NGC 80	Includes Arp 65	00 21 25.6	+22 30 42	And	12.1	14
42	*	NGC 1129	AWM 7	02 54 27.1	+41 34 45	Per	12.5	9
46	*	NGC 1399	AGC 373	03 38 29.0	-35 26 58	For	10.6	11
54	*	NGC 2289		06 50 53.6	+33 28 44	Gem	13.2	6
56	*	NGC 2340		07 11 10.7	+50 10 27	Lyn	11.7	9
60	*	NGC 2804	AWM 1	09 16 50.0	+20 11 54	Cnc	12.8	12
64	*	NGC 2998		09 48 43.7	+44 04 52	UMa	12.5	6
80	*	NGC 3158		10 13 50.5	+38 45 53	LMi	11.9	11
82	*	NGC 2943		09 38 32.9	+17 01 52	Leo	12.4	8
84	*	NGC 3607		11 16 54.7	+18 03 05	Leo	9.9	7
86	*	M 66	Arp 16 and 317	11 20 15.0	+12 59 00	Leo	8.9	3
88	*	IC 696		11 28 39.9	+09 05 55	Leo	13.7	7
90	*	NGC 3801		11 40 16.9	+17 43 41	Leo	12	7
92	*	NGC 4005	Arp 138	11 58 10.1	+25 07 19	Leo	13.1	15
94	*	M 106		12 18 57.3	+47 18 31	CVn	8.4	8
100	*	NGC 5280		13 42 55.6	+29 52 06	CVn	13.6	8
102	*	NGC 4065		12 04 06.2	+20 14 07	Com	12.6	13
108	*	M 100		12 22 55.0	+15 49 25	Com	9.3	10
112	*	MCG-1-30-3	Part of NGC 3724 group	11 34 16.9	-09 34 33	Crt	14.1	10
120	*	NGC 4261		12 19 23.2	+05 49 29	Vir	10.4	23
122	*	M 86	Markarian's Chain	12 26 11.8	+12 56 49	Vir	8.9	22
124	*	M 49		12 29 46.5	+07 59 58	Vir	8.4	12
126	*	M 87		12 30 49.7	+12 23 24	Vir	8.6	12
128	*	M 60		12 43 40.3	+11 32 58	Vir	8.8	12

Page	AL	Brightest Member	Other ID	RA	Dec	Const	Mag ₁	#
130	*	NGC 5044		13 15 24.0	-16 23 09	Vir	10.8	15
134	*	NGC 5171	MKW 11	13 29 21.6	+11 44 06	Vir	12.8	9
144	*	NGC 5846		15 06 16.0	+01 36 23	Vir	10	5
146	*	IC 4349	Includes Hickson 69	13 55 45.1	+25 12 11	Boo	15.3	13
150	*	NGC 5434	MKW 12	13 53 26.7	+40 18 09	Boo	13.2	18
152	*	NGC 5490	Includes Arp 79 and 117	14 09 57.3	+17 32 44	Boo	12.1	7
158	*	NGC 5714		14 38 11.4	+46 38 19	Boo	13.4	5
160	*	NGC 5754	Includes Arp 297	14 45 19.7	+38 43 57	Boo	13.1	4
162	*	UGC 9521		14 47 00.1	+11 35 31	Boo	14.4	6
178	*	NGC 6211		16 41 37.2	+57 48 54	Dra	12.6	4
180	*	NGC 6338		17 15 22.6	+57 24 45	Dra	12.3	7
182	*	NGC 6472		17 44 14.9	+67 37 10	Dra	14.2	9
184	*	NGC 6962		20 47 19.0	+00 19 17	Aqr	12.1	8
186	*	NGC 7184		22 02 39.7	-20 48 50	Aqr	11.2	4
196	*	NGC 7103	Center of AGC 963	21 39 51.4	-22 28 25	Cap	12.6	7
206	*	NGC 7331	Deer Lick group	22 37 04.5	+34 25 00	Peg	9.5	11
208	*	NGC 7385		22 49 54.6	+11 36 31	Peg	12	8
210	*	NGC 7436		22 57 56.0	+26 09 00	Peg	13	10
212	*	NGC 7619	Pegasus I group	23 20 14.5	+08 12 23	Peg	11.1	16

MKW and AWM Catalogues

Page	MKW	Brightest Member	RA	Dec	Const	Mag ₁	# gal
40	MKW 1	NGC 3090	10 00 30.2	-02 58 08	Sex	13.6	7
44	MKW 2	MCG+0-27-23	10 30 10.6	-03 09 50	Sex	13.8	5
80	MKW 3	CGCG 12-99	11 49 41.0	-03 30 34	Vir	14.2	7
82	MKW 4	NGC 4073	12 04 27.1	+01 53 45	Vir	11.1	15
98	MKW 5	NGC 5400	14 00 37.2	-02 51 27	Vir	13.9	4
100	MKW 6	MCG +0-36-32	14 17 35.5	+02 03 11	Vir	15.3	1*
102	MKW 7	UGC 9371	14 33 59.1	+03 46 40	Vir	15	10
104	MKW 8	NGC 5718	14 40 42.9	+03 27 57	Vir	13.9	12
124	MKW 9	UGC 9887	15 32 26.0	+04 44 54	Ser	15	4
78	MKW 10	NGC 3822	11 42 11.2	+10 16 40	Vir	14.1	5
96	MKW 11	NGC 5171	13 29 21.6	+11 44 06	Vir	12.8	9
110	MKW 12	NGC 5434	13 53 26.7	+40 18 09	Boo	13.2	18
46	MKW 1s	UGC 4956	09 20 01.9	+01 02 20	Hyd	13.5	3
42	MKW 2s	CGCG 9-42	10 27 10.2	-03 19 06	Sex	14.6	5
122	MKW 3s	NGC 5920	15 21 51.9	07 42 32	Ser	14.7	4
70	MKW 4s	NGC 4104	12 06 38.9	+28 10 27	Com	13.1	7

Page	AWM	Brightest Member	RA	Dec	Const	Mag ₁	# gal
36	AWM 1	NGC 2804	09 16 50.0	+20 11 54	Cnc	12.8	12
72	AWM 2	NGC 4213	12 15 37.6	+23 58 56	Com	13.5	12
114	AWM 3	NGC 5629	14 28 16.3	+25 50 55	Boo	13	7
126	AWM 4	NGC 6051	16 04 56.7	+23 55 57	Ser	14.2	5
128	AWM 5	NGC 6269	16 57 58.1	+27 51 15	Her	12.2	5
64	AWM 6	IC 4064	13 01 06.7	+39 50 29	CVn	14.7	6
28	AWM 7	NGC 1129	02 54 27.1	+41 34 45	Per	12.5	9

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

McGown, Robert and Paul, Miles. *Galaxy Groups and Clusters: A Visual and CCD Observing Guide for the Advanced Amateur Astronomer*. 2nd Edition (Astronomical League, 2003)

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 - The premier Deep Sky forum where advanced deep sky observers converge and discuss various aspects of deep sky observing.

www.cloudynights.com – Great resource for like-minded amateurs discussing various aspects of the hobby.

www.astronomy-mall.com/Adventures.In.Deep.Space/ - Great source of observing projects for all skill levels

nedwww.ipac.caltech.edu/ - NASA-IPAC Extragalactic Database – NED

archive.stsci.edu/cgi-bin/dss_form - The STScI Digitized Sky Survey

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

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

Revision History

Date	Revision
April 2010	<ul style="list-style-type: none"> • Added 11 new small galaxy groups <ul style="list-style-type: none"> ○ MCG +0-27-23 ○ NGC 4213 ○ IC 4064 ○ NGC 3822 ○ MCG +0-36-32 ○ NGC 5629 ○ UGC 9887 ○ UGC 4956 ○ CGCG 9-42 ○ NGC 5920 ○ NGC 4104 • Added journal articles
August 2012	<ul style="list-style-type: none"> • Enhanced magnitude scaling of finder charts.
March 2013	<ul style="list-style-type: none"> • Enhanced readability of all DSS images. • Refreshed finder charts to align with DSS images.
March 2013	<p>Very minor enhancements</p> <ul style="list-style-type: none"> • Enhanced TOC • Moved the List to the beginning • Enhanced recommended reading section
April 2013	<p>Minor edits – mainly to the How to Use section. Added Front Cover</p>
February 2018	<p>Removed Arp 138 from Index. Typo. Inadvertently added to NGC 4065, whereas Arp 138 is actually NGC 4015 as indicated on page 59.</p>
March 2024	<p>Minor edits. No material changes. Added a few resources to Additional Resources</p>
May 2024	<p>Cleaned up formatting. Added filtered MKW and AWM lists (page 150)</p>

Date	Revision
June 2024	<ul style="list-style-type: none"> • Corrected the following mislabeling due to incorrect Megastar labels: <ul style="list-style-type: none"> • NGC 3 group – recentered DSS image. • IC 5370 group – Correct mislabeled galaxy, specifically IC 5371. • NGC 2804 group – Replaced DSS image. • NGC 2943 group – NGC 2934 was mislabeled. • NGC 3801 group – NGC 3806 was mislabeled. • NGC 4005 group – Added NGC 4009. • NGC 5714 group – replaced DSS image. • NGC 5718 group – IC 1041 was mislabeled with transposed digits. Added IC 1043. Also added two LEDA galaxies as I picked them up in the eyepiece on a 2009 observing session. • NGC 6472 group – Correct mislabeled galaxies and added NGC 6477. • NGC 7436 group – correct mislabeled galaxy, specifically NGC 7431 and added a few PGCs. • Refreshed DSS images. • Updated # of galaxies = labeled galaxies. Published # of galaxies can be arbitrary. • Added iDSA chart page number.
July 2024	<ul style="list-style-type: none"> • Added inset for the jet in M87. Challenge object. • M 100 Group: Corrected labeling for NGC 4323. It was originally mislabeled as NGC 4322. • Slightly enhanced How to Use section • Added filtered Astronomical League Catalogue and denoted which groups are in the original AL list. • Added 31 new small galaxy groups: <ul style="list-style-type: none"> • NGC 182 (Pisces) • NGC 7782 (Pisces) • NGC 969 (Pisces) • IC 1724 (Sculptor) • NGC 1052 (Cetus) • NGC 88 (Phoenix) – Robert’s Quartet • NGC 536 (Andromeda) • NGC 877 (Aries) • NGC 1402 (Eridanus) – Eridanus A Group • IC 408 (Lepus) • NGC 1954 (Lepus) • NGC 2749 (Cancer) • NGC 2684 (Ursa Major) • NGC 2708 (Hydra) • NGC 3311 (Hydra) – Hydra I Cluster • NGC 3268 (Antlia) – Antlia Cluster • NGC 5096 (Canes Venatici) • MCG-2-28-45 (Crater) • NGC 5077 (Virgo)

- | | |
|--|---|
| | <ul style="list-style-type: none">• NGC 5416 (Boötes)• NGC 5603 (Boötes)• NGC 5797 (Boötes) (continued next page)• NGC 5899 (Boötes)• IC 4562 (Boötes)• NGC 6845 (Telescopium) – Klemola 30• NGC 6850 (Telescopium)• NGC 6876 (Pavo) – Pavo Galaxy Cluster• NGC 7176 (Pisces Austrinus)• NGC 7268 (Pisces Austrinus)• IC 5250A (Tucana)• UGC 12127 (Pegasus) |
|--|---|