

Galaxy Trios and Triple Galaxy Systems

Includes
Gravitational Lensed Quasars

Alvin Huey
FaintFuzzies.com

Galaxy Trios and Triple Systems

The Original Galaxy Trios inspired by Miles Paul

**Additional galaxy trios and triple systems from DSS, SDSS images, and
various catalogues from NED**

240+ galaxy trios

Bonus section:

Gravitationally Lensed Quasars

Alvin Huey

www.FaintFuzzies.com

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Observing Books by Alvin Huey

Hickson Group Observer's Guide, Second edition
The Abell Planetary Observer's Guide, Second edition
Observing the Arp Peculiar Galaxies, Revised edition
Extragalactic Objects Within Host Galaxies

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Herschel Objects – Parts I, II, and III
Selected Small Galaxy Groups
Galaxy Trios and Triple Systems
Observing the Milky Way Globular Clusters, Revised Edition
Planetary Nebulae and Supernovae Remnants
Observing Local Group Galaxies, Revised Edition
Flat Galaxies
Abell Galaxy Clusters
Voronstov-Velyaminov Catalogue – Parts I and II
Rose Catalogue of Compact Galaxies
Extragalactic Objects Within Host 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

Cover page: NGC 5981, 5982, and 5985

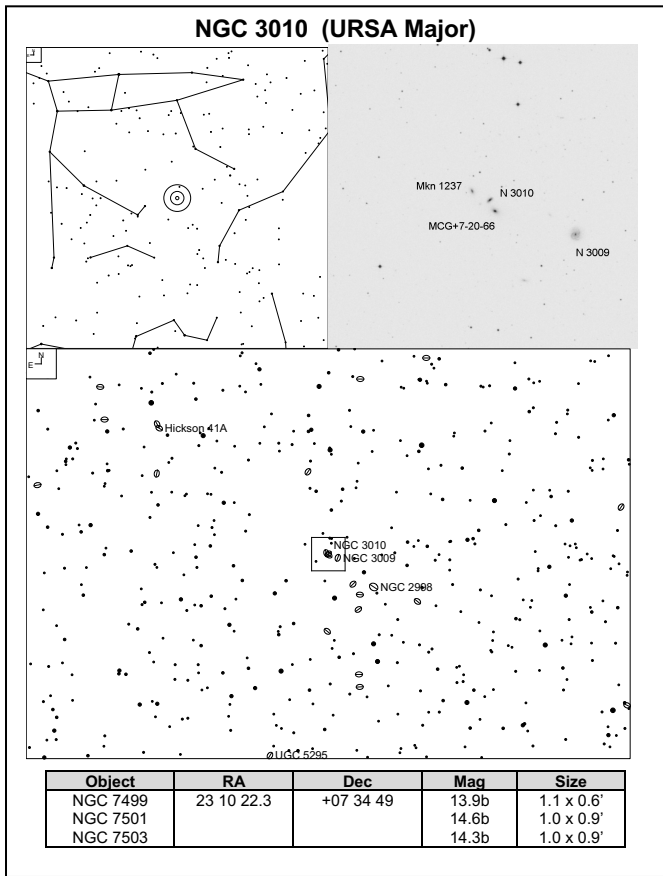
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How to Use the Atlas



Galaxy Trios and Triple Systems

The top left panel contains the naked eye field with the TelRad™ superimposed on the center of the galaxy trio or triple system. The top right panel contains the inverted labeled DSS image. The image is generally 15' square, otherwise larger.

The bottom panel is a finder field of about 4.8° 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”, like I do. The limiting magnitude of the field stars is set to 12.0 (or 11.0 in star rich regions). The field of the DSS image is superimposed on the finder chart. All charts and images are oriented north pointed up and west to the right.

I intentionally listed only one member galaxy of the trio on the header to reduce clutter. The member galaxies are in the table at the bottom and in the index list. If you are using the PDF version, you can use the search feature to look for any object in this catalogue.

A table provided at the bottom of each page includes key data for each member of the galaxy trio.

RA and **Dec** provided is the approximate center of the trio/triple galaxy system in Epoch 2000.0

Magnitude is given along with the **Size**.

The source of the **magnitude** is generally from MegaStar version 5, which is pulled from RC3 (Third Reference Catalogue of Bright Galaxies). When the magnitude and/or size are not available, I've used the information from NED. Blue magnitude is **b**, photographic is **p** and visual is **v**. If there is nothing, then it is generally assumed to be **b**.

The few magnitude figures with an asterisk are from the SDSS estimated **g** magnitude.

The Galaxy Trios and Triple Systems Catalogue (pages 8 to 24) lists the galaxy trios starting in the Pegasus/Andromeda region, moving eastwards.

- The first three columns after the page number contain a “*” if it is one or more of the following:
 - **M** – Miles Paul’s objects. His Atlas is now available on the [Webb Society](#) website for free.
 - **A** - Required objects for the [Astronomical League Galaxy Groups and Clusters](#) observing program.
 - **C** - Very challenging trios and triple systems for advanced observers with large scopes, specifically 20” and larger. Some of these require very good seeing to resolve the closely spaced components.
- **R** – “Rating” scale for each trio. The scope size listed is what I recommend/think you will need to see all three members under good skies, typically NELM 6 or better. This is based on my experience after observation of these objects or how it appear on the images. I’ve seen enough to gather a pretty good idea of what is required.

Rating	Recommended telescope
1	8” or less
2	8 to 12”
3	12 to 18”
4	20” or larger

- **KTG** – The Karachentseva Triplet Galaxies (KTG) Catalogue number for Part I of isolated triplets of galaxies researched by a group of Russian astronomers in a paper published in *Astrofizicheskie Issledovaniia*, vol. 11 in 1979. This list contains 84 isolated triples of northern-hemisphere galaxies with apparent magnitudes of the components $m < 15.7$ mag. If you want to do the KTG observing program, see page 278 for the KTG catalogue.
- **Galaxies** – The catalog names of each galaxy of the trio
- **RA** and **Dec** - in Epoch 2000.0
- **Mag** – published magnitudes of each member listed in the same order. Source: RC3 or NED
- **Constellation**

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.

Galaxy Trios and Triple Systems Catalogue

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
26	*	*		2		NGC 7499 NGC 7501 NGC 7503	23 10 22.3	+07 34 49	13.9 14.6 14.3	Psc
27	*			3		NGC 7562 NGC 7557 NGC 7562A	23 15 57.4	+06 41 16	12.6 15.1 15.5	Psc
28	*	*		2		NGC 7530 NGC 7532 NGC 7534	23 14 11.8	-02 46 47	13.1 14.3 14.5	Psc
29			*	4		UGC 12525 MAC 2320+0134 UGC 12525 NED2	23 20 26.5	+01 33 49	15.1 16.0 16.5	Psc
30	*	*		3		NGC 7700 NGC 7699 NGC 7701	23 34 30.1	-02 57 12	15.1 15.9 14.4	Psc
31			*	4		CGCG 407-46 MAC 2343+0433 Kug 2340+042B	23 43 17.0	+04 33 04	15.4 16.0 16.5	Psc
32	*	*		2		NGC 7778 NGC 7779 NGC 7781	23 53 19.7	+07 52 15	13.7 13.7 15.0	Psc
33			*	4		CGCG 382-27 PGC 3085069 MAC 0006+0306B	00 06 57.0	+03 06 29	15.5 16.0 16.0	Psc
34	*	*		2		NGC 128 NGC 127 NGC 130	00 29 15.1	+02 51 50	12.8 15.3 14.9	Psc
35	*	*		3		NGC 138 NGC 139 NGC 141	00 30 59.3	+05 09 35	14.6 15.3 15.3	Psc
36	*			2		NGC 315 NGC 311 NGC 318	00 57 49.1	+30 21 10	12.2 14.0 15.2	Psc
37	*	*		3	3	NGC 392 NGC 394 NGC 397	01 08 23.4	+33 07 59	13.7 15.0 15.5	Psc
38	*			2		NGC 451 NGC 449 NGC 447	01 16 12.5	+33 03 50	14.9 14.2 14.0	Psc
39				1	5	NGC 467 NGC 470 NGC 474 (KDG 10)	01 19 38.4	+03 21 28	12.9 12.5 12.4	Psc

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
40				3		NGC 490 NGC 486 NGC 492	01 22 02.9	+05 22 02	15.3 15.5 15.4	Psc
41				3	7	UGC 937 CGCG 502-69 MCG+5-4-50	01 23 36.4	+32 37 54	15.0 15.6 15.8	Psc
42	*			2		IC 107 IC 1698 IC 1700	01 25 13.3	+14 52 21	14.9 14.4 13.8	Psc
43			*	4		CGCG 459-66 MAC 0130+2035 MAC 0130+2036	01 30 16.2	+20 35 48	14.9 16.5 16.5	Psc
44	*			3		NGC 741 NGC 742 IC 1751	01 56 21.0	+05 37 44	12.2 15.3 15.3	Psc
45	*		*	4		MCG-2-2-31 PGC 1865 PGC 1866	00 30 44.9	-08 24 54	15.7 16.3 16.4	Cet
46	*	*		2		NGC 142 NGC 143 NGC 144	00 31 07.9	-22 37 10	14.6 15.2 14.4	Cet
47			*	4		MAC 0033-0251 MAC 0033-251A MAC 0033-250	00 33 52.7	-02 51 13	16.0 16.5 16.5	Cet
48	*			2		NGC 177 NGC 172 NGC 168	00 37 34.2	-22 32 57	14.1 14.0 14.8	Cet
49	*	*		3		NGC 235 NGC 232 NGC 230	00 42 52.6	-23 32 26	13.9 14.4 15.6	Cet
50	*			3		MCG-4-3-10 MCG-4-3-11 MCG-4-3-13	00 47 35.1	-20 25 44	14.4 15.7 14.6	Cet
51				2		NGC 273 NGC 274 NGC 275 (KDG 7)	00 50 54.3	-06 58 26	13.9 12.8 13.2	Cet
52	*			4		MCG-2-3-37 Arp 251B Arp 251C	00 53 48.4	-13 51 14	15.5 - -	Cet
53	*	*		2		NGC 430 NGC 426 NGC 429	01 12 59.9	-00 15 07	13.5 13.8 14.4	Cet
54	*	*		2		NGC 554 NGC 555 NGC 556	01 27 09.7	-22 43 29	14.8 15.1 15.4	Cet

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
55	*			3		UGC 1116 UGC 1120 UGC 1123	01 33 34.5	-01 05 25	15.3 14.6 14.4	Cet
56	*			3		NGC 1017 NGC 1011 NGC 1010	02 37 49.7	-11 00 36	14.9 15.1 15.2	Cet
57				4		UGC 2211 PGC 3091803 PGC 3091802	02 43 52.5	+06 39 03	16.2 16.0 15.4*	Cet
58	*			3		MCG-5-2-23 MCG-5-2--24 MCG-5-2--26	00 36 27.4	-27 47 05	14.6 15.1 16.2	Scl
59	*			4		MCG-5-4-12 MCG-5-4-11 MCG-5-4-13	01 13 27.7	-31 49 02	16.0 16.3 15.9	Scl
60	*			4		IC 1657 ESO 352-24A ESO 352-24B	01 14 07.1	-32 39 08	13.1 15.3 16.3	Scl
61				4		CGCG 427-35 CGCG 427-36 CGCG 427-37	21 53 19.8	+15 34 33	15.3 15.6 15.4	Peg
62				3	74	UGC 11851 CGCG 403-2 MAC 2156+0554	21 55 52.2	+05 51 25	14.7 15.4 15.5	Peg
63				4		NGC 7236 NGC 7237 NGC 7237C	22 14 47.3	+13 50 31	14.6 14.4 16.9	Peg
64	*	*		3		NGC 7270 NGC 7271 NGC 7275	22 23 47.5	+32 24 10	14.9 15.6 15.2	Peg
65				4		UGC 12110 CGCG 429-12 MCG +2-57-6	22 36 54.8	+14 24 04	15.3 15.8 16.4	Peg
66				3	75	CGCG 430-1 CGCG 430-2 CGCG 430-3	22 44 10.2	+10 01 46	15.2 15.3 15.3	Peg
67				3	76	UGC 12191 UGC 12193 CGCG 474-32	22 48 47.2	+27 35 30	14.7 13.9 15.8	Peg
68				4		UGC 12297 CGCG 496-29 PGC 214891	23 00 10.0	+31 23 50	14.8 15.5 16.1	Peg
69	*	*		2		NGC 7465 NGC 7463 NGC 7464	23 02 01.0	+15 57 53	12.6 13.8 14.3	Peg

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
70				4	77	CGCG 406-11 CGCG 406-13 MAC 2310+0909	23 10 45.0	+09 09 59	15.6 14.8 15.5	Peg
71		*		4		PGC 1678762 PGC 1678768 uncharted	23 11 16.3	+22 56 45	16.5 - -	Peg
72	*			3	79	UGC 12543 UGC 12546 UGC 12545	23 21 33.5	+27 07 08	15.4 15.2 15.1	Peg
73	*			3		MCG+3-59-48 MCG+3-59-49 MCG+3-59-50	23 23 20.3	+20 35 23	15.3 15.4 15.4	Peg
74			*	4		MAC 2341+0904B MAC 2341+0904A MAC 2341+0904	23 41 32.3	+09 04 32	16.0 16.5 17.0	Peg
75			*	4		CGCG 407-53 MAC 2345+0911 MAC 2345+0912B	23 44 58.6	+09 11 54	15.3 15.5 16.0	Peg
76	*	*		2	82	NGC 7769 NGC 7770 NGC 7771	23 51 03.9	+20 09 00	12.8 13.1 14.4	Peg
77				3	83	UGC 12897 UGC 12899 CGCG 499-33 (Hick 99)	00 00 42.5	+28 23 36	14.8 14.7 15.7	Peg
78				3	84	UGC 14 UGC 12915 UGC 12914	00 02 36.7	+23 20 53	13.8 13.9 13.1	Peg
79	*	*		3		NGC 7449 NGC 7445 NGC 7446	22 59 37.5	+39 08 47	15.0 15.6 15.4	And
80				2	80	NGC 7640 UGC 12588 UGC 12632	23 26 02.5	+41 05 45	11.9 13.7 12.8	And
81	*			3		IC 1535 IC 1534 IC 1536	00 13 57.4	+48 09 27	15.1 14.8 15.4	And
81	*	*		3		NGC 51 NGC 48 NGC 49	00 14 34.9	+48 15 22	14.1 14.4 14.7	And
82	*			3		MCG+4-2-37 UGC 367 MAC 0037+2543A	00 37 05.5	+25 41 56	14.5 14.9 16.5	And
83	*			3		NGC 183 NGC 181 NGC 184	00 38 29.1	+29 30 42	13.7 15.5 15.6	And

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
84				1	1	M-31 M-32 M-110	00 41 56.4	+41 16 24	4.4 9.0 8.9	And
85				4		IC 1583 IC 1585 MCG+4-3-3	00 47 14.6	+23 03 38	15.2 15.5 16.9	And
86	*			3		NGC 252 NGC 258 NGC 260	00 48 01.7	+27 37 24	13.4 15.6 14.2	And
87				2	2	NGC 317A NGC 317B CGCG 536-14	00 57 40.7	+43 45 04	14.3 13.9 15.1	And
88	*			3	4	MCG+8-3-11 UGC 813 UGC 816	01 16 04.5	+46 43 50	15.1 14.8 14.2	And
89	*			3		NGC 477 MCG+7-3-29 MCG+7-3-31	01 21 01.3	+40 26 48	15.0 14.5 13.7	And
90				3	6	CGCG 521-9 CGCG 521-12 CGCG 521-14	01 22 50.2	+39 10 00	15.2 14.7 15.3	And
91	*			4		NGC 923 MCG+7-6-21 Mkn 1176	02 27 34.6	+41 58 41	14.5 15.7 16.5	And
92				2	8	NGC 672 NGC 684 IC 1727	01 47 54.3	+27 25 59	11.5 13.3 12.1	Tri
93	*			4		NGC 735 PGC 7293 V Zw 146	01 56 38.1	+34 10 33	14.1 16.4 16.5	Tri
94	*			3		NGC 969 NGC 970 NGC 974	02 34 08.0	+32 56 51	13.3 15.7 13.5	Tri
95	*	*		3		NGC 1060 NGC 1061 NGC 1057	02 43 15.1	+32 25 29	11.8 15.0 15.2	Tri
95	*	*		3		NGC 1066 NGC 1062 NGC 1067	02 43 50.0	+32 28 30	14.3 15.4 14.6	Tri
96	*			2		NGC 996 NGC 999 NGC 1001	02 38 39.6	+41 38 52	14.0 14.4 14.9	Per
97			*	4		IC 275 (PGC 11389, 11388, 11390)	03 00 56.1	+44 21 01	17.3 17.5 17.5	Per

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
98				4	10	IC 1900 IC 1901 IC 1902	03 16 03.8	+37 08 41	15.1 15.7 15.7	Per
99	*			3		NGC 680 NGC 678 MAC 0149+2200	01 49 57.9	+21 58 16	11.9 13.3 14.5	Ari
100		*		4		PGC 8731 PGC 8734 PGC 8741 (V Zw 037)	02 17 15.9	+27 44 44	17.1 16.7 17.1	Ari
101	*			3	9	NGC 1024 NGC 1028 NGC 1029 (Arp 333)	02 39 11.7	+10 50 46	13.1 15.3 14.1	Ari
102	*			2		NGC 1228 NGC 1229 NGC 1230	03 08 11.6	-22 55 23	14.2 14.8 13.8	Eri
103	*			3		NGC 1472 NGC 1477 NGC 1478	03 53 47.3	-08 34 06	15.4 15.8 16.5	Eri
104	*			2		NGC 1532 NGC 1531 IC 2041	04 12 02.5	-32 53 19	9.8 13.2 14.6	Eri
105	*			2		NGC 1600 NGC 1601 NGC 1603	04 31 39.9	-05 05 10	10.9 13.8 13.8	Eri
106	*			1		NGC 1625 NGC 1622 NGC 1618	04 37 06.2	-03 18 12	12.2 12.5 12.7	Eri
107	*	*		2		NGC 1721 NGC 1725 NGC 1728	04 59 17.4	-11 07 08	13.1 13.1 13.7	Eri
108				4		UGC 3274 MAC 0516+627B MAC 0516+626C	05 16 37.3	+06 26 27	14.8 15.5 15.5	Ori
109				4		IRAS 06370+3623	06 40 22.6	+36 20 38	15.4 16.1 16.4	Aur
110				4	12	UGC 3532 UGC 3535 CGCG 204-13	06 46 13.9	+43 49 08	15.0 14.5 15.9	Aur
111				4		UGC 3615 CGCG 176-3 MAC 0658+3545	06 58 12.2	+35 46 44	15.3 14.7 16.0	Aur
112	*			2		NGC 2274 NGC 2775 UGC 3537	06 47 17.3	+33 34 01	13.1 14.1 14.7	Gem

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
113				3	15	CGCG 146-33 CGCG 146-34 CGCG 146-36	07 11 21.7	+31 10 00	15.0 15.7 15.4	Gem
114	*			3	16	UGC 3776 UGC 3780 UGC 3779	07 16 38.8	+33 59 17	14.3 14.9 15.4	Gem
115	*	*		2		NGC 2379 NGC 2375 NGC 2373	07 27 26.4	+33 48 41	14.5 14.4 14.7	Gem
116	*	*		3		NGC 2389 NGC 2388 NGC 2385	07 29 04.9	+33 51 37	13.4 14.7 15.2	Gem
117				4	17	CGCG 147-52 CGCG 147-53 CGCG 147-54	07 40 08.8	+32 13 34	15.5 15.6 15.3	Gem
118				3	18	UGC 3995A UGC 3995B CGCG 147-63	07 44 11.5	+29 14 26	13.3 14.9 15.5	Gem
119	*	*		2		NGC 2292 NGC 2293 NGC 2295	06 47 39.3	-26 44 47	11.8 12.3 13.6	Cma
120	*	*		3		NGC 2513 NGC 2511 NGC 2510	08 02 24.7	+09 24 50	12.6 15.1 14.4	Cmi
121	*			3	20	IC 497 UGC 4257 MCG+4-20-3	08 10 06.1	+24 55 19	15.4 15.2 15.4	Cnc
122	*			3	13	MCG+7-15-6 UGC 3673 UGC 3679	07 07 13.0	+44 49 00	14.8 15.4 15.2	Lyn
123	*			4	14	MCG+8-13-81 MCG+8-13-84 UGC 3706	07 09 39.3	+47 54 53	15.3 15.3 14.7	Lyn
124	*			3		NGC 2444 NGC 2445 MCG+7-16-15	07 46 53.2	+39 02 00	14.2 13.9 15.1	Lyn
125				3	19	UGC 4003 UGC 4012 UGC 4020	07 47 13.5	+58 59 26	14.6 15.3 14.2	Lyn
126				4		CGCG 207-7 MAC 0756+4407 MAC 0756+4405A	07 56 41.3	+44 06 39	15.7 16.0 16.0	Lyn
127	*			4		MCG+7-19-51 MCG+7-19-52 MCG+7-19-53	09 16 46.8	+43 42 44	15.5 16.1 15.6	Lyn

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
128				3	22	NGC 2798 NGC 2799 UGC 4904	09 17 26.5	+41 57 18	13.0 14.3 14.9	Lyn
129	*	*		3		IC 2375 IC 2377 IC 2379	08 26 19.6	-13 18 10	14.5 14.5 14.5	Pup
130	*			3	21	UGC 4349 UGC 4352 MCG+0-22-3	08 20 35.0	-01 22 32	15.0 15.0 15.0	Hyd
131	*			4		MCG-1-24-11 MCG-1-24-12 MCG-1-24-13	09 20 47.7	-08 02 01	16.1 14.7 15.9	Hyd
132				3	24	NGC 2861 CGCG 6-40 CGCG 6-41	09 23 50.7	+02 07 28	13.5 15.2 15.6	Hyd
133	*			2		NGC 3128 NGC 3127 MCG-3-26-21	10 06 14.7	-16 07 25	14.0 14.3 14.5	Hyd
134				4		NGC 3203 ESO 500-23 MAC 1019-2641	10 19 33.8	-26 41 56	13.1 16.1 17.0	Hyd
135	*	*		4		NGC 3280 NGC 3280A NGC 3280B	10 32 46.4	-12 38 04	16.0 15.1 16.3	Hyd
136	*	*		1		NGC 5152 NGC 5153 NGC 5150	13 27 50.2	-29 37 05	13.3 11.8 12.6	Hyd
137	*		*	4		NGC 2684 NGC 2686 NGC 2687	08 54 53.9	+49 09 39	13.6 15.3 15.3	UMa
138	*			3	23	NGC 2820 NGC 2814 IC 2458	09 21 47.1	+64 15 29	12.8 15.0 13.7	UMa
139	*			2		NGC 2857 NGC 2856 NGC 2854	09 24 38.0	+49 21 20	12.9 14.1 13.8	UMa
140	*			3		NGC 3010 MCG+7-20-66 Mkn 1237	09 50 34.6	+44 19 24	14.3 14.9 15.5	UMa
141				1	28	M-81 M-82 NGC 3077	09 59 26.9	+69 12 24	7.9 9.3 9.9	UMa
142	*			2		NGC 3202 NGC 3205 NGC 3207	10 20 31.9	+43 01 18	14.1 14.2 14.2	UMa

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
143	*		*	4		MCG+10-16-66 MCG+10-16-67 MCG+10-16-68	11 08 51.5	+60 02 35	16.7 15.9 17.7	UMa
144	*			3		NGC 3545A/B NGC 3542 MCG+6-25-14	11 10 12.3	+36 57 52	14.8 15.1 15.5	UMa
145	*			3		MCG+9-19-25 MCG+9-19-24 MCG+9-19-23	11 16 46.7	+54 45 04	14.7 15.3 14.8	UMa
146	*			3		NGC 3786 NGC 3788 NGC 3793 (Arp 294)	11 39 42.4	+31 54 35	13.2 13.5 15.5	UMa
147	*			2		NGC 3921 NGC 3916 MCG+9-19-213	11 51 06.5	+55 04 24	13.1 14.7 14.2	UMa
148	*	*		2	39	NGC 3995 NGC 3994 NGC 3991 (Arp 313)	11 57 44.4	+32 17 38	12.4 13.3 13.5	UMa
149				2	40	IC 749 IC 750 IC 751	11 58 43.2	+42 39 08	12.9 12.9 15.1	UMa
150				4	41	UGC 7064 CGCG 158-10 CGCG158-11	12 04 44.6	+31 10 34	14.2 15.8 15.7	UMa
151	*			4		NGC 5485 NGC 5484 NGC 5486	14 07 11.3	+55 00 05	11.4 15.7 13.8	UMa
152	*			4	43	MCG+7-25-60 MCG+7-25-59 MCG+7-25-61	12 21 02.1	+39 53 59	15.4 15.2 15.1	CVn
153			*	4		UGC 8281 MCG+8-24-79 MAC 1311+4448	13 11 59.4	+44 48 42	16.3 16.6 16.5	CVn
154			*	4		MCG+7-27-49 MCG+7-27-50 MCG+7-27-51	13 14 08.0	+38 17 01	14.6 17.5 16.4	CVn
155				4		MCG+9-22-48 MCG+9-22-47 MCG+9-22-49	13 19 52.7	+52 03 33	15.4 13.8 16.0	CVn
156	*			3		NGC 5141 NGC 5142 NGC 5143	13 24 51.6	+36 22 43	13.8 14.2 15.6	CVn
157				1	50	NGC 5350 NGC 5353 NGC 5354	13 53 24.1	+40 19 24	11.3 10.9 11.3	CVn

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
158	*			2		NGC 5351 NGC 5349 NGC 5341	13 53 28.1	+37 54 52	13.0 14.9 14.2	CVn
159				2	26	NGC 3003 NGC 3021 NGC 3067	09 53 28.8	+32 57 42	12.3 12.9 12.8	LMi
160			*	4		CGCG 290-52 triple system	10 34 04.6	+59 24 12	15.4 16 17.5	LMi
161	*	*		4		NGC 2872 NGC 2874 NGC 2873	09 25 42.6	+11 25 55	12.9 13.4 16.8	Leo
162	*	*		3		NGC 2929 NGC 2930 NGC 2931	09 37 29.7	+23 09 40	14.7 15.1 14.9	Leo
163	*	*		4		NGC 2991 NGC 2988 NGC 2994	09 46 50.1	+22 00 50	13.5 15.8 14.0	Leo
164	*			2	25	NGC 2964 NGC 2968 NGC 2970	09 42 53.9	+31 50 50	12.0 12.8 14.4	Leo
165				2	27	NGC 3016 NGC 3020 NGC 3024	09 50 08.9	+12 45 16	13.8 12.6 13.8	Leo
166	*			3		IC 613 IC 612 IC 615	10 27 07.8	+11 00 38	14.8 15.4 15.1	Leo
167				3	30	NGC 3299 NGC 3306 CGCG 65-69	10 36 47.0	+12 42 42	13.3 14.0 14.9	Leo
168				4	31	UGC 5822 CGCG 124-53 CGCG 124-54	10 41 49.1	+21 13 20	14.7 15.6 14.9	Leo
169				4	32	UGC 5892 CGCG 38-11 CGCG 38-12	10 47 17.6	+07 14 58	14.3 15.7 15.6	Leo
170	*	*		1	33	M-105 NGC 3384 NGC 3389	10 47 49.6	+12 34 55	10.2 10.9 12.4	Leo
171	*			4		NGC 3434 CGCG 38-35 CGCG 38-37	10 51 57.9	+03 47 34	12.9 15.6 15.6	Leo
172				3	35	NGC 3534 UGC 6190 CGCG 155-76	11 09 01.8	+26 36 42	14.2 15.2 15.1	Leo

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
173				1		NGC 3607 NGC 3605 NGC 3608 (KDG 90)	11 16 53.9	+18 05 25	9.9 12.3 10.8	Leo
174				3	36	UGC 6361A/B/C CGCG 11-68 CGCG 11-75	11 20 49.0	+00 31 51	13.9 14.9 15.2	Leo
175				4	37	UGC 6462 CGCG 39-188 CGCG 39-190	11 27 59.0	+07 59 50	15.0 16.0 15.6	Leo
176	*			3		NGC 3988 NGC 4004 IC 2982	11 57 24.2	+27 52 39	14.3 15.3 14.1	Leo
177	*			2		NGC 3169 NGC 3166 NGC 3165	10 14 14.8	+03 28 00	11.1 11.3 14.5	Sex
178	*			3	29	MCG+0-27-17 MCG+0-27-19 UGC 5667	10 27 24.9	+01 14 29	15.7 15.0 14.9	Sex
179				2	42	NGC 4169 NGC 4170 NGC 4175 (not 4174?)	12 12 24.9	+29 11 21	13.2 13.6 14.2	Com
180	*	*		2		NGC 4278 NGC 4283 NGC 4286	12 20 06.8	+29 16 50	11.1 13.0 14.1	Com
181	*	*		3	45	NGC 4615 (Arp 34) NGC 4614 NGC 4613	12 41 37.4	+26 04 22	13.8 14.3 15.6	Com
182				4		MAC 1254+2805A MAC 1254+2805B MAC 1254+2804	12 54 14.6	+28 05 15	15.0 16.0 16.0	Com
183	*			3	38	MCG-1-30-32 MCG-1-30-33 MCG-1-30-34 (Wild's Triplet)	11 46 44.5	-03 50 50	13.7 14.2 14.3	Vir
184	*			4		NGC 4168 NGC 4165 NGC 4164	12 12 17.2	+13 12 18	12.1 14.4 15.7	Vir
185	*			4		MCG +2-31-58 MCG +2-31-59 MCG +2-31-60	12 14 42.5	+12 59 25	16.0 16.7 16.8	Vir
186	*	*		2		NGC 4339 NGC 4333 NGC 4326	12 23 34.9	+06 04 54	12.3 14.5 14.2	Vir
187	*			3		IC 3481 IC 3481A IC 3483	12 32 52.3	+11 24 15	14.4 14.4 15.7	Vir

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
188				2		NGC 4564 NGC 4567 NGC 4568 (KDG 150)	12 36 29.2	+11 20 44	12.1 12.1 11.7	Vir
189				4		MAC 1242-1128B MAC 1242-1128C MAC 1242-1128D	12 42 40.4	-11 28 35	16.0 16.0 16.0	Vir
190	*	*		3		NGC 4716 NGC 4717 MCG-1-33-22	12 50 33.2	-09 27 05	14.3 15.1 17.1	Vir
191	*			3		MCG-3-33-19 MCG-3-33-20 MCG-3-33-21	12 56 56.4	-20 28 18	14.0 14.6 13.8	Vir
192			*	4		NGC 4933A NGC 4933B NGC4933C (Arp 103)	13 03 56.8	-11 29 52	12.7 13.4 18.5	Vir
193				4		CGCG 44-33 CGCG 44-35 CGCG 44-36	13 13 49.2	+06 57 46	15.1 15.4 15.1	Vir
194				4	46	IC 871 IC 873 IC 876	13 18 16.6	+04 26 42	14.2 15.3 14.9	Vir
195	*	*		2		NGC 5077 NGC 5079 NGC 5076	13 19 31.8	-12 39 26	11.3 13.8 14.0	Vir
196	*	*		3		NGC 5209 NGC 5208 NGC 5212	13 32 42.6	+07 19 37	14.0 14.1 15.5	Vir
197				3	47	IC 904 UGC 8631 CGCG 17-46	13 38 34.0	+00 31 40	14.6 14.8 15.9	Vir
198				4	48	UGC 8686 CGCG 45-81 CGCG 45-84	13 43 52.5	+03 53 50	14.9 15.6 15.1	Vir
199				3	49	CGCG 17-67 CGCG 17-68 CGCG 17-68A	13 46 22.4	-03 24 39	15.4 14.8 15.3	Vir
200				4	52	UGC 8939 CGCG 18-29 CGCG 18-31	14 02 08.9	-01 22 38	14.1 15.3 15.7	Vir
201	*			1	54	NGC 5566 NGC 5560 NGC 5569	14 20 20.0	+03 56 01	11.5 12.4 13.9	Vir
202	*			1	55	NGC 5576 NGC 5574 NGC 5577	14 21 03.8	+03 16 16	11.0 12.4 13.1	Vir

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
203				4	56	CGCG 47-27 CGCG 47-28 CGCG 47-29	14 22 55.1	+06 09 40	15.5 15.6 15.6	Vir
204		*		4		CGCG 47-37	14 25 55.6	+06 27 22	15.1 17.6 17.7	Vir
205				3	57	NGC 5619 IC 4424 UGC 9258	14 27 26.7	+04 48 05	13.4 14.7 15.0	Vir
206	*			3		NGC 5638 NGC 5636 UGC 9310 (Arp 274)	14 29 39.1	+03 14 00	11.2 13.7 14.5	Vir
207				3		NGC 5679 NGC 5679A MCG+1-37-36	14 35 08.8	+05 21 32	13.8 14.5 17.1	Vir
208	*			3		IC 1071 IC 1073 IC 1072	14 54 12.4	+04 45 02	14.2 15.6 15.3	Vir
209	*			2		NGC 3667 NGC 3667A NGC 3661	11 24 17.0	-13 51 22	13.5 14.3 14.8	Crt
210	*			3		NGC 3831 MCG -2-30-24 MCG -2-30-18	11 43 18.6	-12 52 45	13.6 15.5 15.5	Crt
211				4		CGCG 46-17 CGCG 46-19 MAC 1357+0724	13 57 47.6	+07 23 47	14.8 15.3 16.0	Boo
212	*			3	51	IC 962 MCG+2-36-2 MCG+2-36-4	13 57 13.3	+12 01 18	14.2 15.0 15.2	Boo
213				3	53	UGC 8987 CGCG 103-60 CGCG 103-65	14 04 34.5	+16 18 17	14.7 14.8 15.6	Boo
214	*			3		NGC 5504 IC 4383 MCG+3-36-79	14 12 15.7	+15 50 34	13.8 15.3 15.2	Boo
215	*			4		UGC 9103 MCG+1-36-24 MCG+2-36-57	14 13 42.0	+08 13 13	16.0 14.7 16.4	Boo
216	*	*		3		NGC 5614 NGC 5613 NGC 5615	14 24 07.5	+34 51 31	11.6 14.5 15.5	Boo
217	*			4		UGC 9233 UGC 9235 UGC 9238	14 24 34.9	+35 16 47	15.2 15.3 15.6	Boo

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
218	*			4		NGC 5648 NGC 5655 MAC 1431+1400	14 30 32.7	+14 01 21	14.7 13.9 16.0	Boo
219				3	58	NGC 5736 UGC 9490 CGCG 76-9	14 43 36.0	+11 10 46	14.7 15.5 15.2	Boo
220		*		4		MAC 1450+5047 MAC 1450+5407A uncharted	14 50 17.0	+50 47 14	16.5 16.5 19.0	Boo
221	*			3		NGC 5888 NGC 5886 NGC 5889	15 13 07.1	+41 15 53	14.2 15.0 15.5	Boo
222	*	*		3		NGC 6120 NGC 6119 NGC 6122	16 19 48.2	+37 46 29	14.6 15.4 15.3	CrB
223	*			4		MCG+8-31-3 MCG+8-31-3A PGC 59062 Zwicky's Triplet	16 49 28.1	+45 27 43	16.0 15.4 16.0	Her
224				3	66	CGCG 225-14 CGCG 225-16 CGCG 225-17	16 57 33.7	+40 43 16	15.2 15.0 15.0	Her
225				3		CGCG 140-2 CGCG 140-3 MAC 1714+2305	17 14 24.9	+23 04 08	15.5 15.3 15.5	Her
226		*		4		UGC 10987 triple system	17 48 18.1	+17 56 47	15.1 16.3 15.6	Her
227				3	67	NGC 6484 MCG+4-42-10 MCG+4-42-11	17 52 00.2	+24 30 25	13.1 14.7 15.2	Her
228		*		4		CGCG 254-13 triple system	18 04 48.9	+47 45 35	15.6 16.2 17.1	Her
229				3	59	CGCG 337-33 CGCG 337-34 CGCG 401-1	15 15 49.1	+69 18 17	15.0 15.2 15.7	Umi
230	*			3		NGC 2957A NGC 2957 NGC 2963	09 47 15.4	+72 59 10	15.4 15.7 14.3	Dra
231				2	34	NGC 3465 NGC 3523 UGC 6090	11 01 18.8	+75 09 30	14.4 13.6 14.4	Dra
232				3	44	CGCG 315-48 CGCG 315-49 CGCG 315-50	12 35 25.7	+63 58 33	15.7 15.1 15.3	Dra

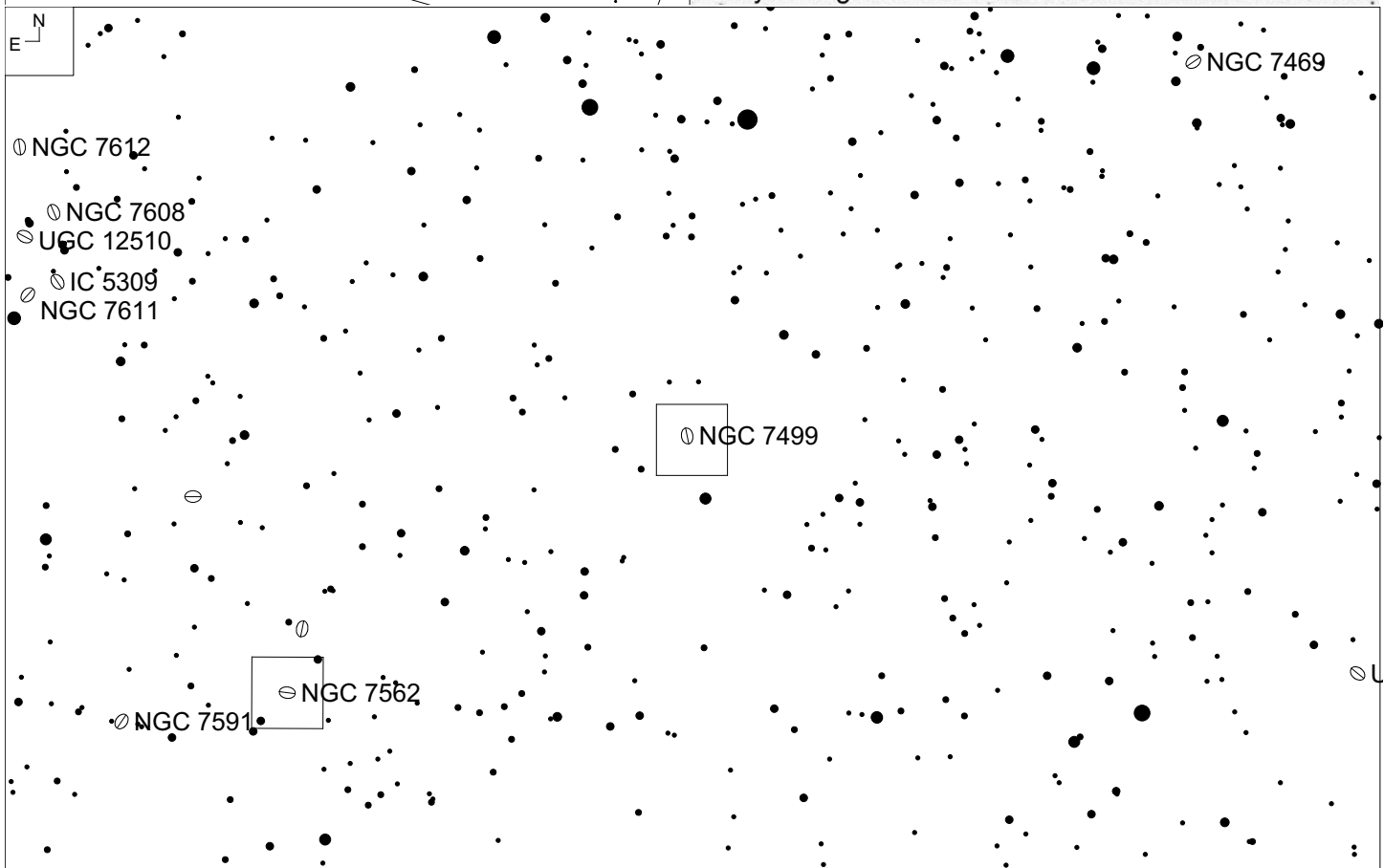
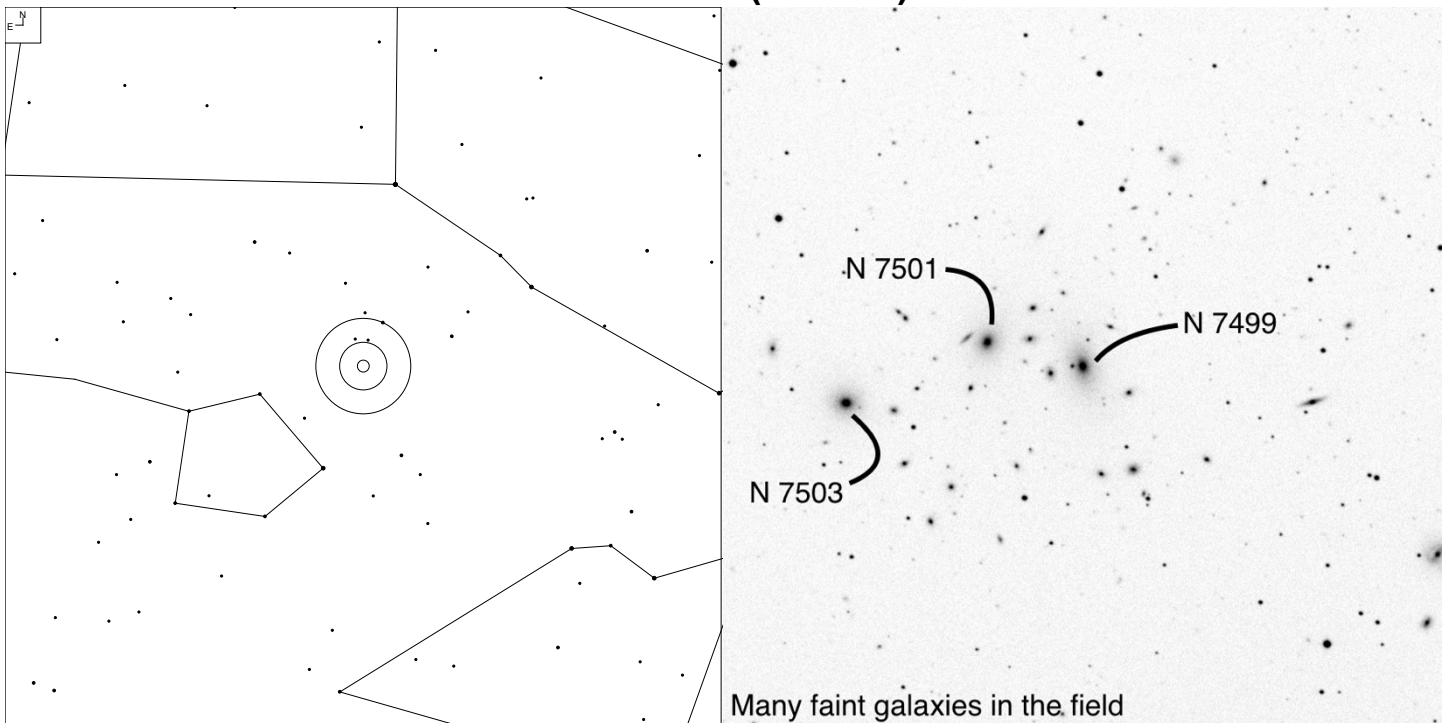
Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
233				2	63	NGC 5965 NGC 5963 NGC 5971	15 34 32.5	+56 34 25	12.6 13.1 14.7	Dra
234	*	*		1	64	NGC 5982 NGC 5985 NGC 5981	15 38 39.8	+59 21 21	12.0 11.9 13.9	Dra
235	*			4		NGC 6290 NGC 6291 MCG+10-24-85	17 00 56.6	+58 58 15	14.5 14.8 16.4	Dra
236	*			4		NGC 6491 NGC 6493 UGC 11007	17 50 00.7	+61 31 53	14.5 15.1 15.2	Dra
237			*	4		CGCG 300-88 MAC 1751+6249 PGC 2644303	17 51 02.8	+62 49 16	15.6 16.0 16.9	Dra
238	*	*		4		NGC 6609 NGC 6607 NGC 6608	18 12 33.6	+61 19 54	15.3 15.6 16.0	Dra
239				3		NGC 6677 NGC 6679 MCG+11-22-56 (KDG 200)	18 33 34.3	+67 07 29	14.2 13.6 15.8	Dra
240	*	*		4		NGC 5802 NGC 5801 NGC 5803	15 00 30.1	-13 55 09	15.5 15.7 15.9	Lib
241	*			2		NGC 5903 NGC 5898 MCG-4-36-7	15 18 36.4	-24 04 07	12.2 12.5 14.6	Lib
242	*	*		2		NGC 5915 NGC 5916 NGC 5916A	15 21 33.4	-13 05 35	12.8 14.2 15.1	Lib
243				3	60	NGC 5911 CGCG 49-134 CGCG 49-135	15 20 23.9	+03 28 56	14.7 15.7 15.4	Ser
244				4	61	UGC 9829 CGCG 21-81 CGCG 21-83	15 22 58.7	-01 21 50	14.2 16.1 15.7	Ser
245				2	62	NGC 5951 NGC 5953 NGC 5954	15 34 16.9	+15 07 59	13.4 12.9 12.9	Ser
246				3	65	UGC 9990 CGCG 50-83 CGCG 50-87	15 43 46.7	+04 49 14	15.0 15.0 15.2	Ser
247	*			4		NGC 6070 CGCG 23-18 MAC 1610+0047	16 09 58.6	+00 42 31	12.5 15.6 16.0	Ser

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
248				2	68	UGC 11368 UGC 11370 UGC 11371	18 51 43.0	+26 31 07	14.3 14.6 14.3	Lyr
249				2	69	NGC 6745	19 01 41.7	+40 45 11	13.3 16.2 15.9	Lyr
250	*			3		NGC 6841 MCG-5-47-15 MCG-5-47-16	19 57 49.0	-31 48 37	13.8 15.1 14.5	Sgr
251				3	70	UGC 11607 CGCG 373-45 CGCG 373-46	20 39 33.5	+02 03 08	14.9 15.2 15.2	Aql
252				4		II Zw 99 (PGC 66119/20/21)	21 06 49.2	-00 51 24	17.6 18.9 19.2	Aqr
253	*	*		3		NGC 6928 NGC 6927 NGC 6930	20 32 50.3	+09 55 36	13.2 15.5 13.6	Del
254	*			3	71	NGC 6956 UGC 11623 UGC 11620	20 43 53.7	+12 30 42	13.1 14.9 14.6	Del
255				4	72	UGC 11659 CGCG 400-17 PGC 1366929	21 00 10.1	+09 34 15	14.8 16.6 16.2	Equ
256				2	73	IC 1392 UGC 11775 UGC 11781	21 36 00.0	+35 28 53	12.5 14.1 13.1	Cyg
257	*	*		2		NGC 7274 NGC 7276 NGC 7273	22 24 11.1	+36 07 35	13.8 14.7 14.7	Lac
258	*			4		UGC 12064 MAC 2231+3922A MAC 2231+3922B	22 31 20.6	+39 21 29	14.5 16.0 16.0	Lac
259	*			4		UGC 12073 UGC 12075 MCG+6-49-34	22 32 33.5	+39 12 55	14.4 14.6 15.6	Lac
260				3	11	UGC 3536A UGC 3528A CGCG 370-4B	07 05 21.0	+86 36 28	14.6 15.5 15.3	Cep
261				3	81	CGCG 344-4 CGCG 344-5 CGCG 344-6	23 41 22.5	+78 13 00	15.5 15.6 15.6	Cep
262	*	*		3		NGC 7018 NGC 7016 NGC 7017	21 07 25.4	-25 25 43	14.5 14.7 15.4	Cap

Pg	M	A	C	R	KTG	Galaxies	RA	Dec	Mag	Con
263	*			3		MCG-4-50-6	21 11 36.9	-23 10 51	15.8	Cap
						MCG-4-50-7			15.0	
						MCG-4-50-8			14.9	

The Galaxy Trio and Triple System Atlas

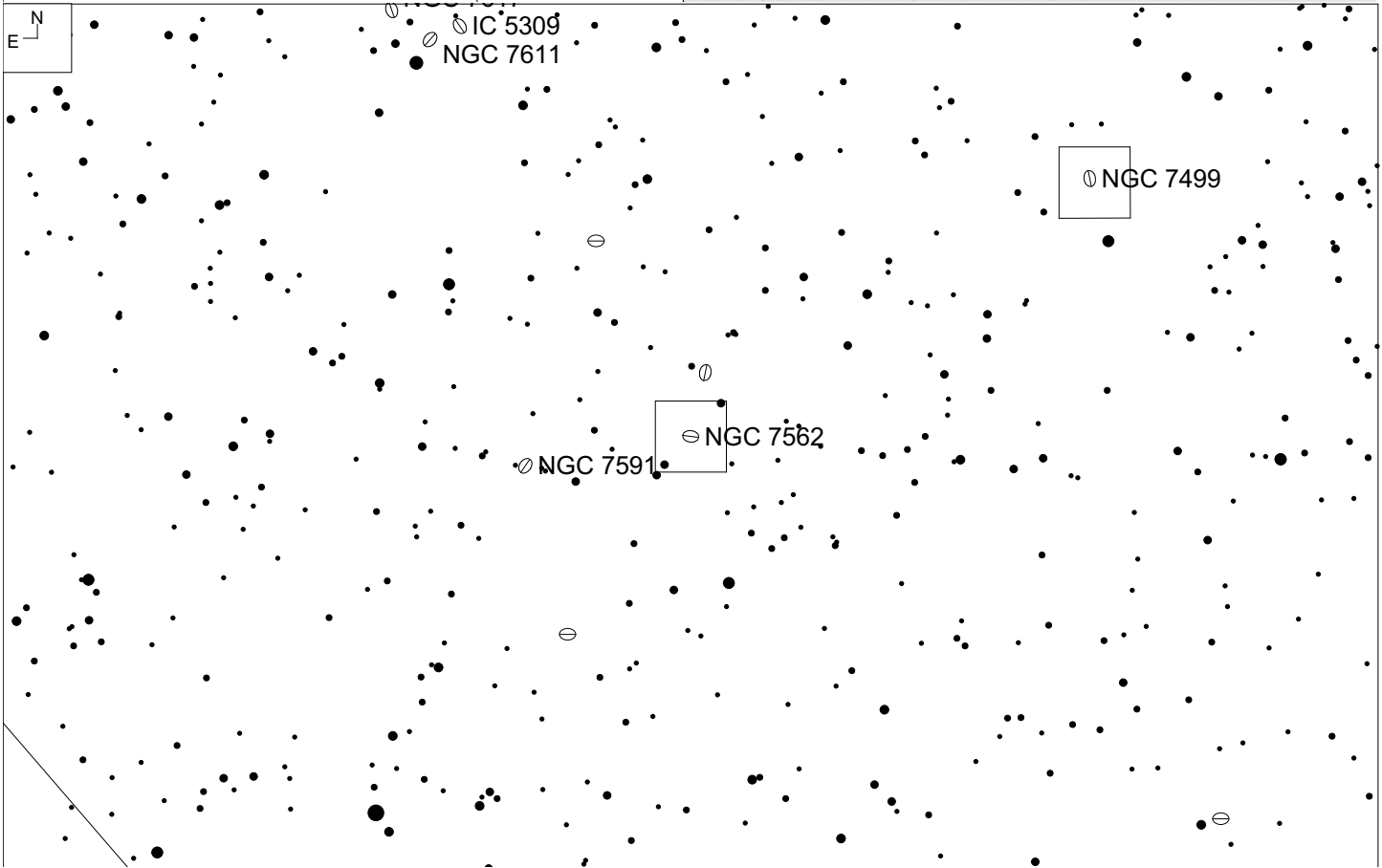
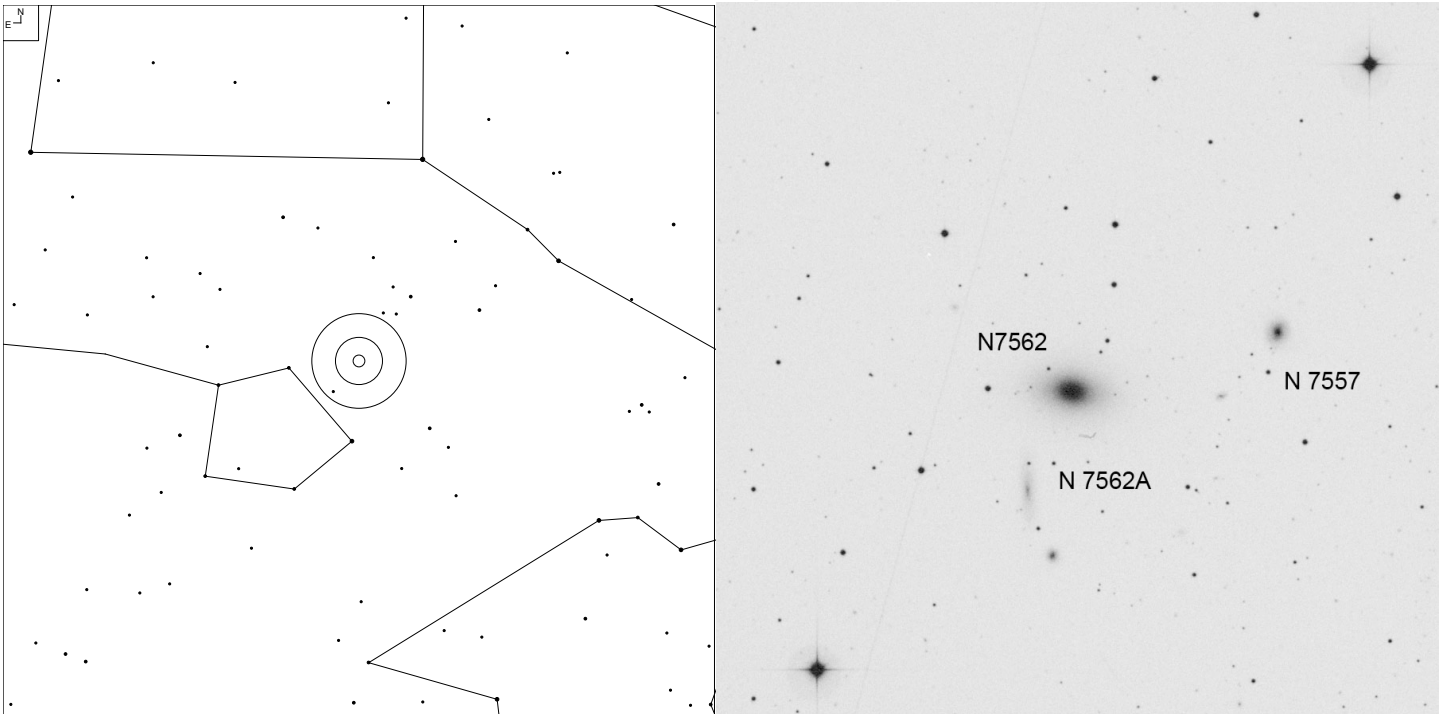
NGC 7499 (Pisces)



Object	RA	Dec	Mag	Size
NGC 7499	23 10 22.3	+07 34 49	13.9b	1.1 x 0.6'
NGC 7501			14.6b	1.0 x 0.9'
NGC 7503			14.3b	1.0 x 0.9'

Miles Paul and Astronomical League trio
 This group is part of the Pegasus II Galaxy Group.

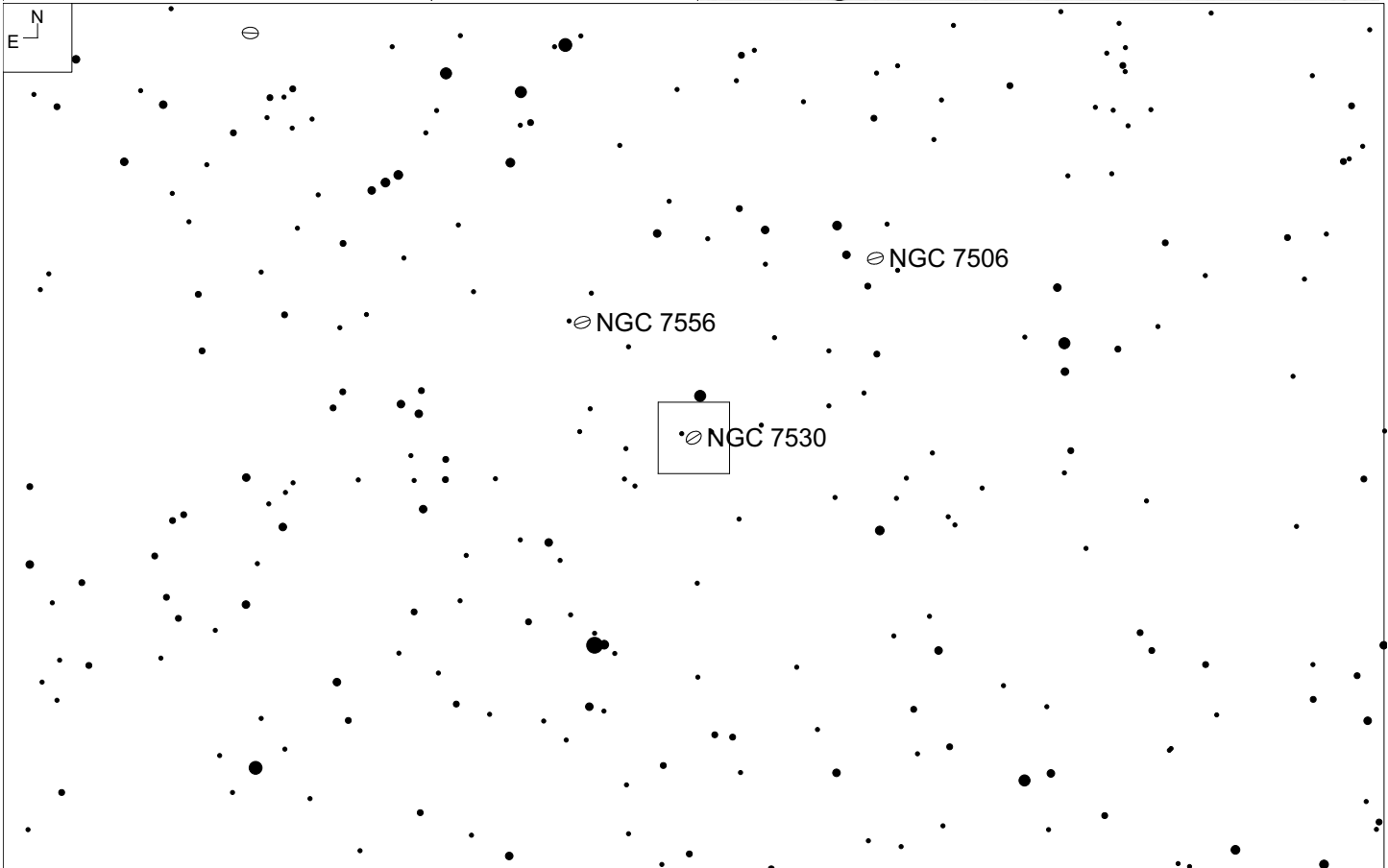
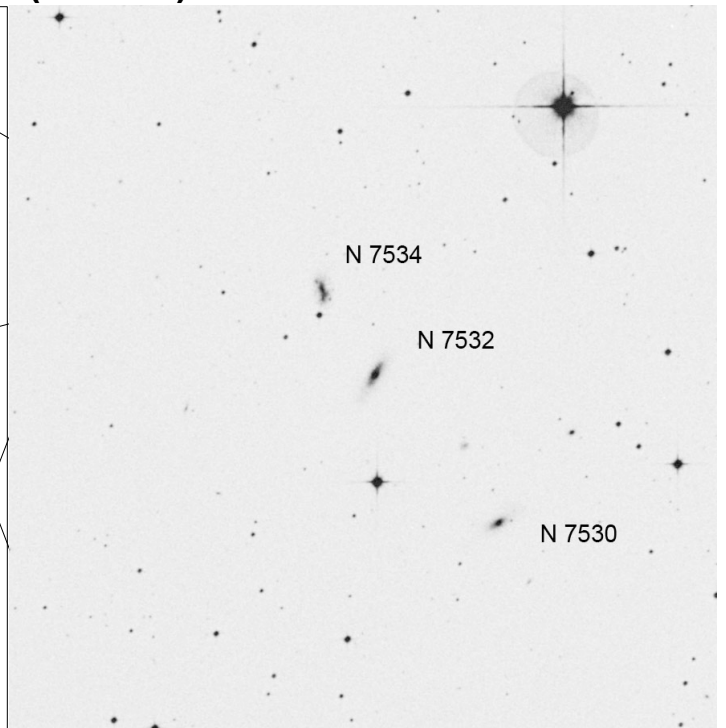
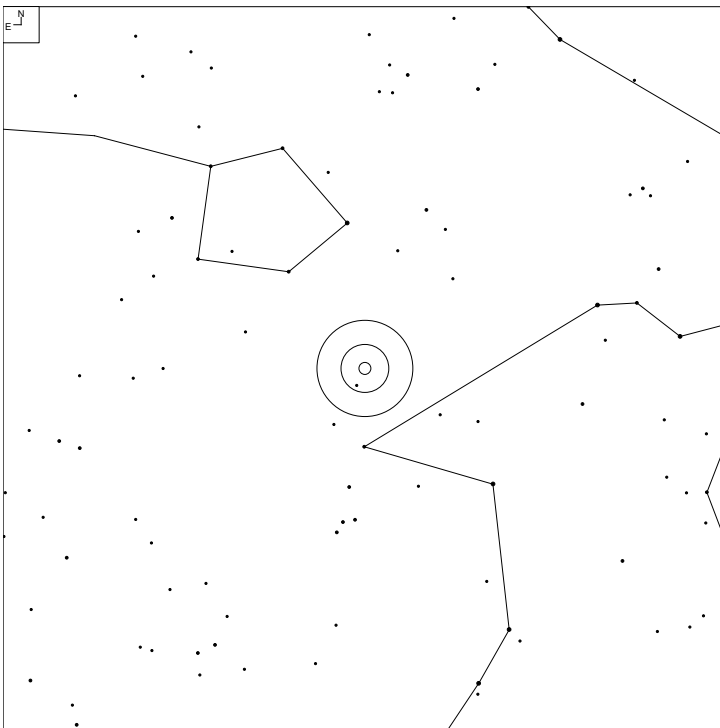
NGC 7562 (Pisces)



Object	RA	Dec	Mag	Size
NGC 7562	23 15 57.4	+06 41 16	12.6b	2.2 x 1.4'
NGC 7557			15.1b	0.8 x 0.7'
NGC 7562A			15.5b	1.5 x 0.3'

Miles Paul trio

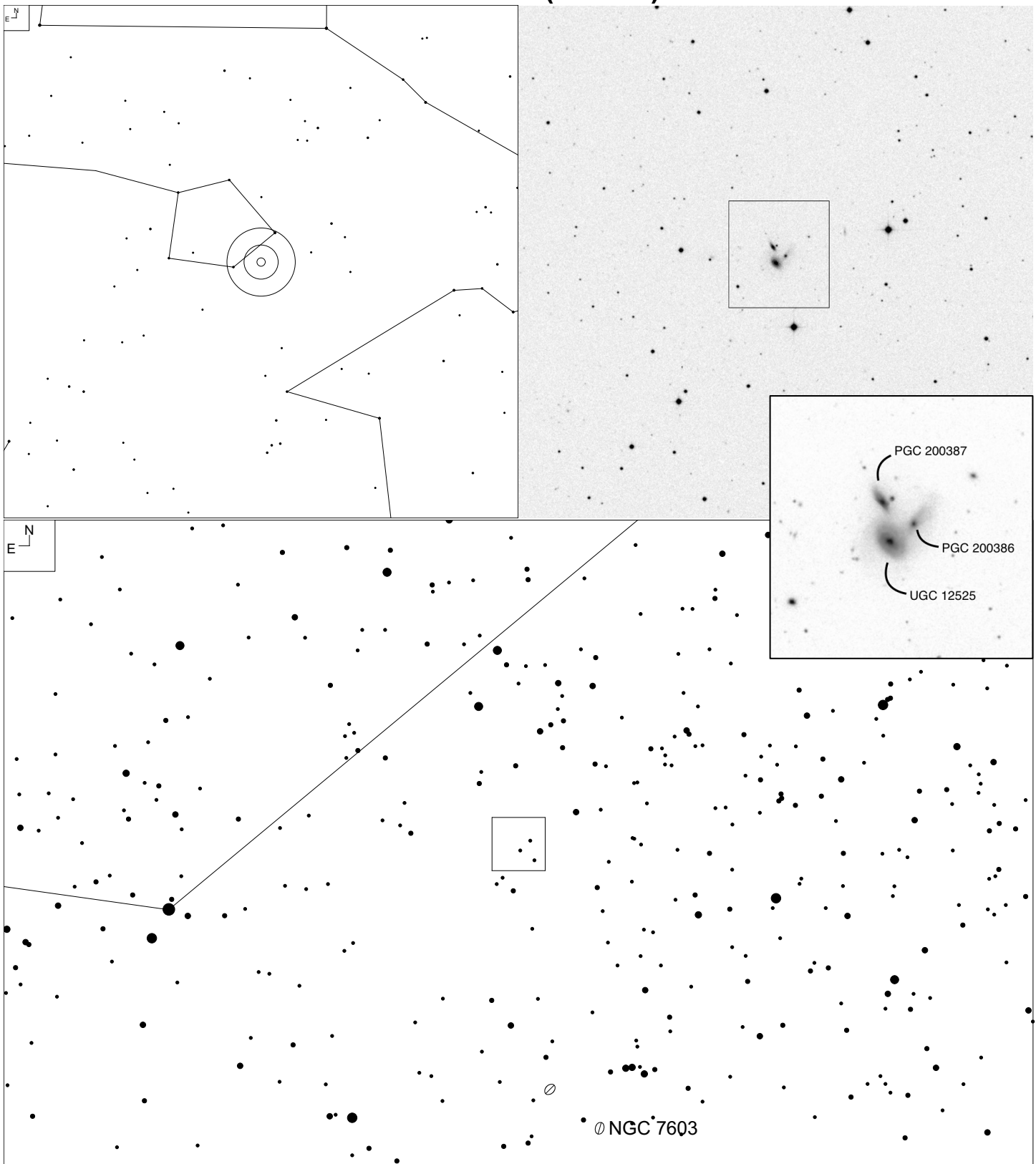
NGC 7530 (Pisces)



Object	RA	Dec	Mag	Size
NGC 7530	23 14 11.8	-02 46 47	13.1	0.9 x 0.5'
NGC 7532			14.3	1.4 x 0.7'
NGC 7534			14.5	1.0 x 0.6'

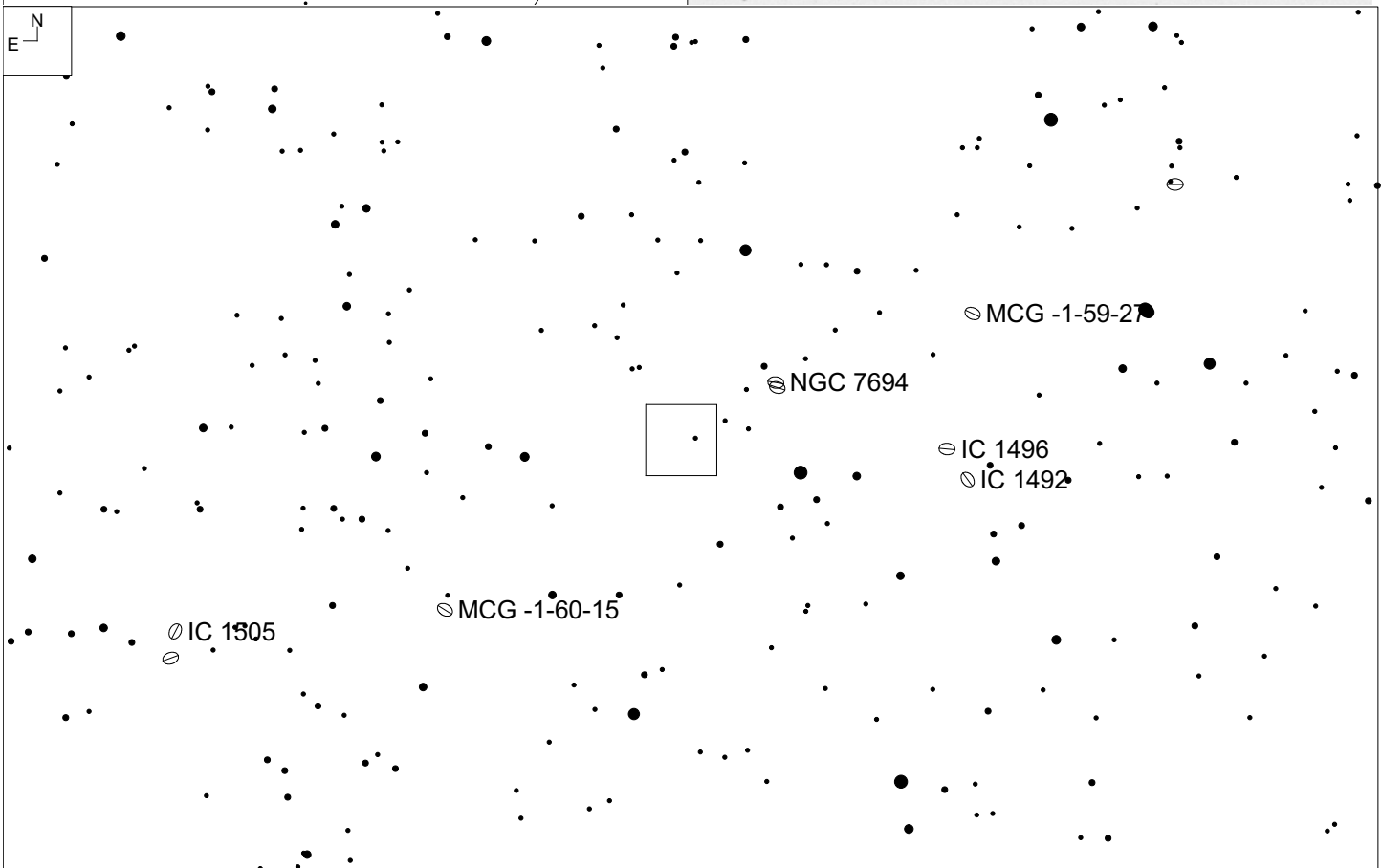
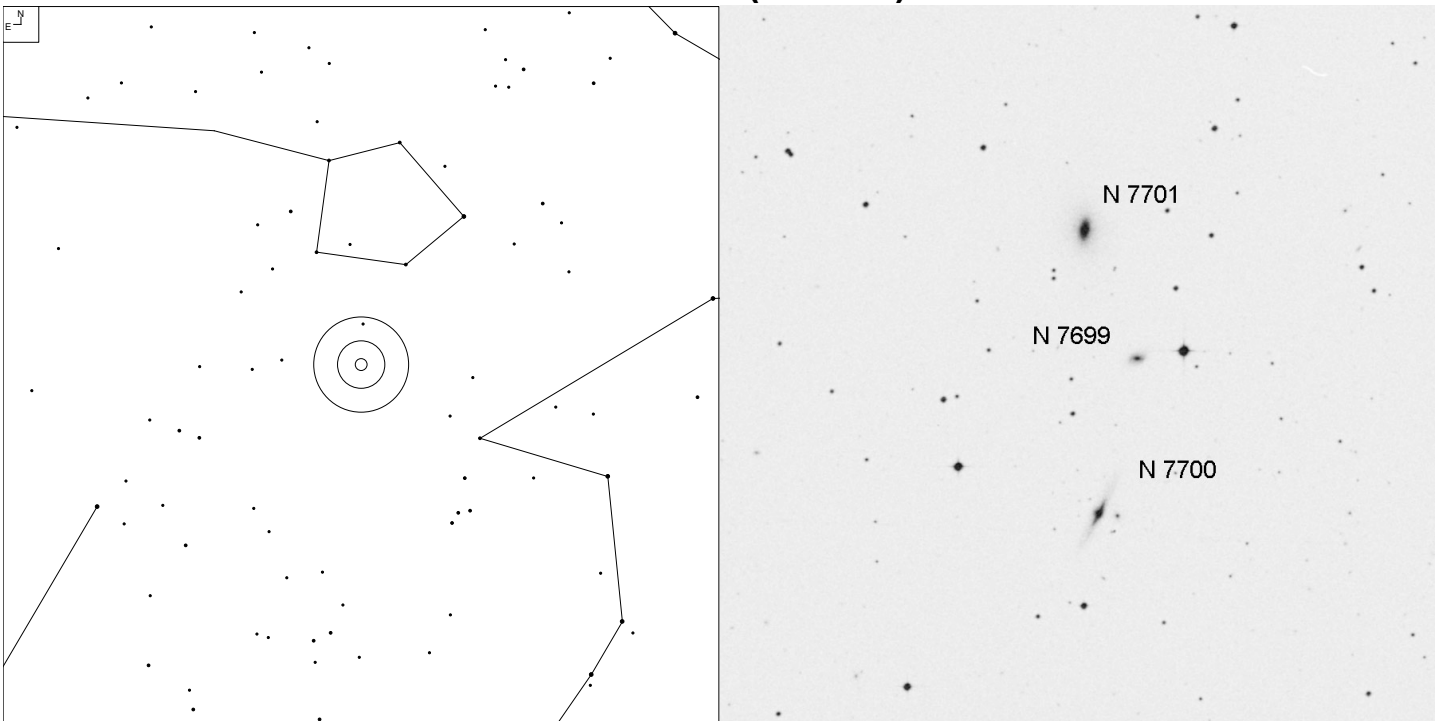
Miles Paul and Astronomical League trio

UGC 12525 (Pisces)



Object	RA	Dec	Mag	Size
UGC 12525	23 20 26.8	+01 33 37	15.1	0.7 x 0.5'
MAC 2320+0134			16.0	0.4 x 0.1'
UGC 12525 NED2			16.5*	0.1'

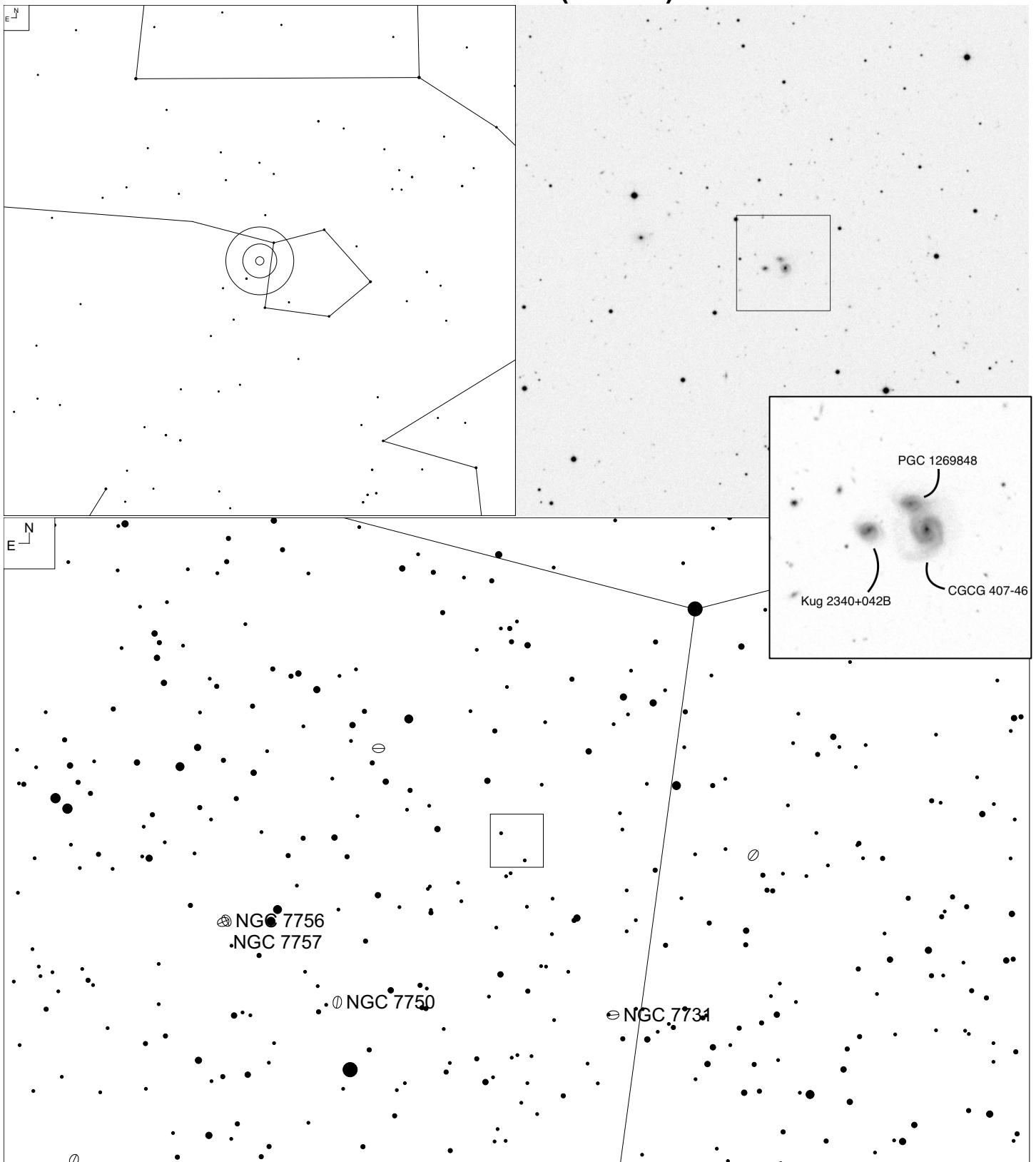
NGC 7700 (Pisces)



Object	RA	Dec	Mag	Size
NGC 7700	23 34 30.1	-02 57 12	15.1	2.0 x 0.4'
NGC 7699			15.9	0.7 x 0.5'
NGC 7701			14.4	1.0 x 0.5'

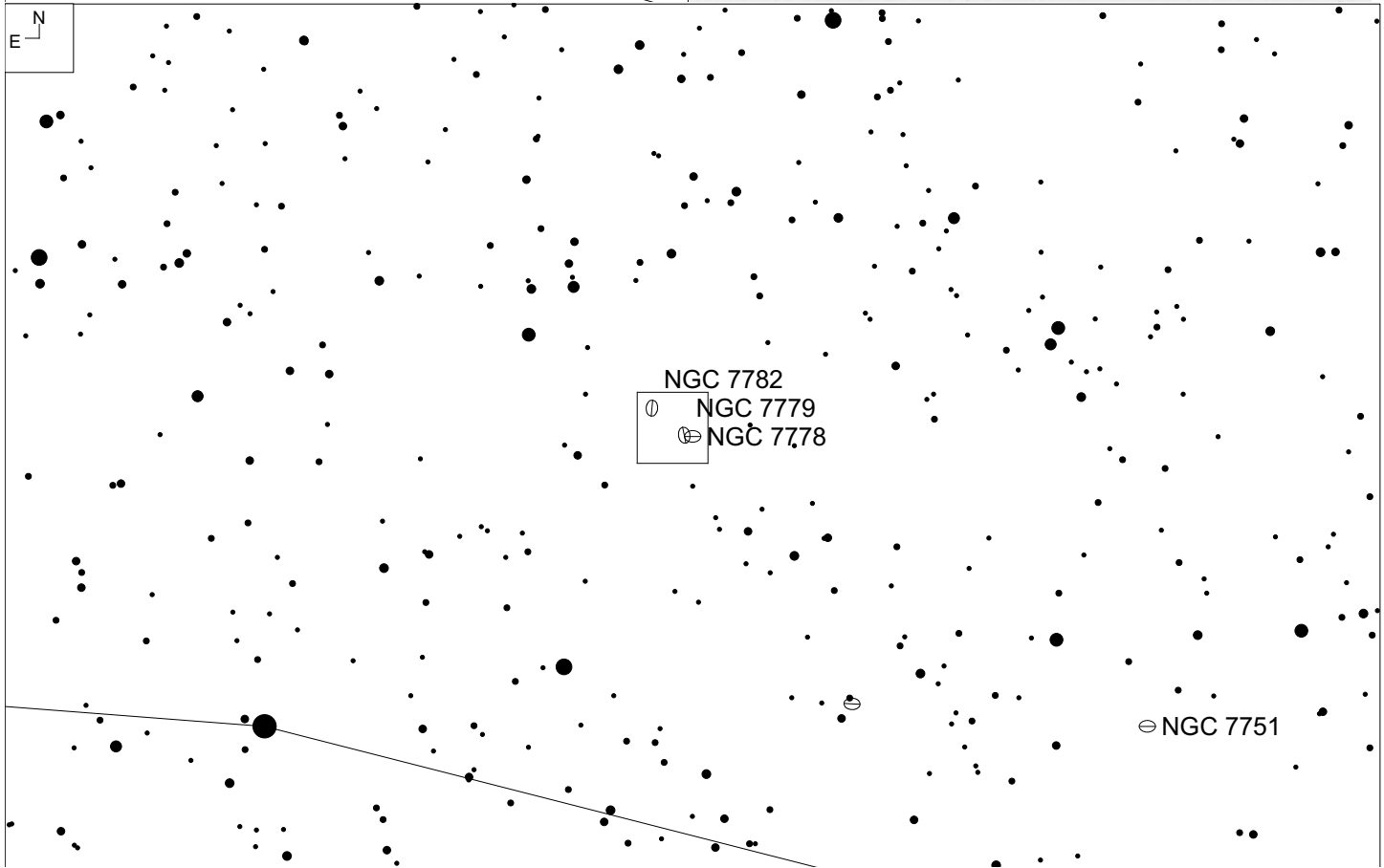
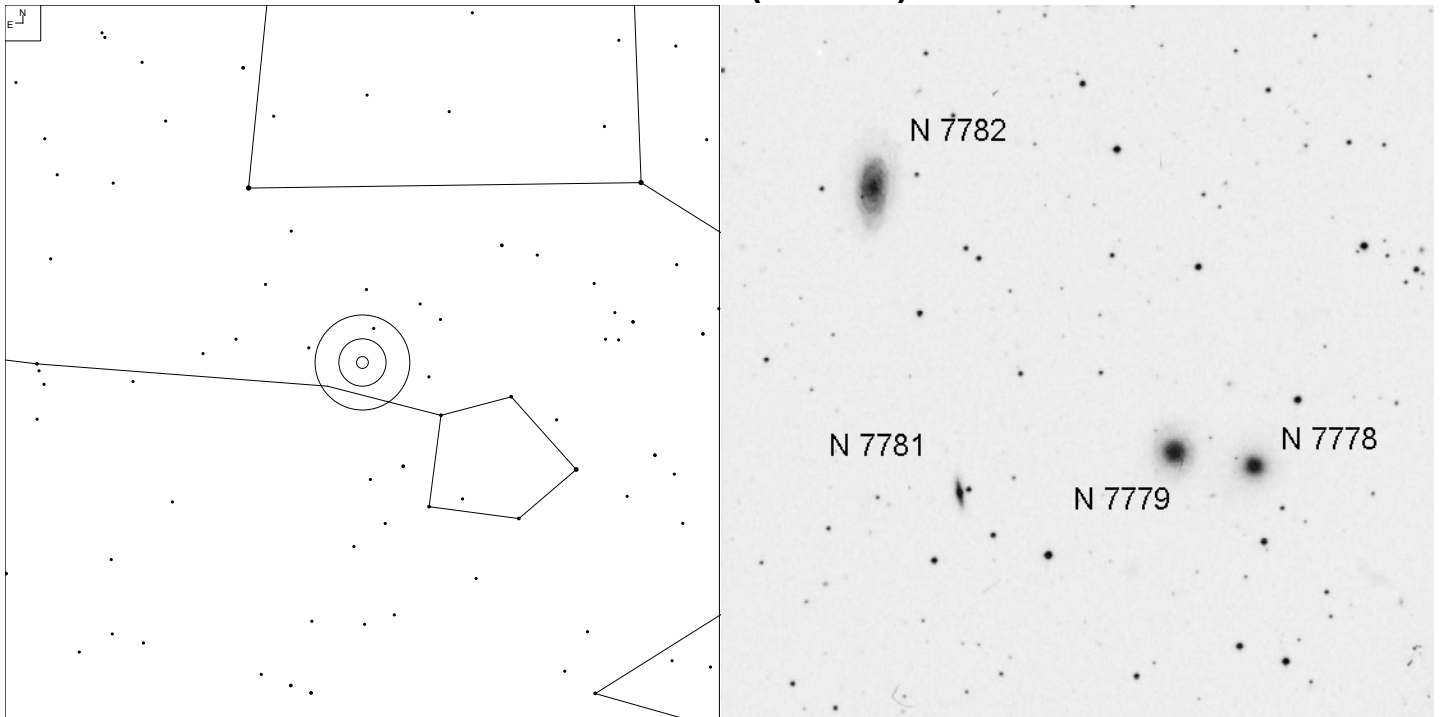
Miles Paul and Astronomical League trio

CGCG 407-46 (Pisces)



Object	RA	Dec	Mag	Size
CGCG 407-46	23 43 17.0	+04 33 04	15.4	0.5 x 0.4'
PGC 1269848			16.0	0.3 x 0.2'
Kug 2340+042B			16.5	0.2 x 0.2'

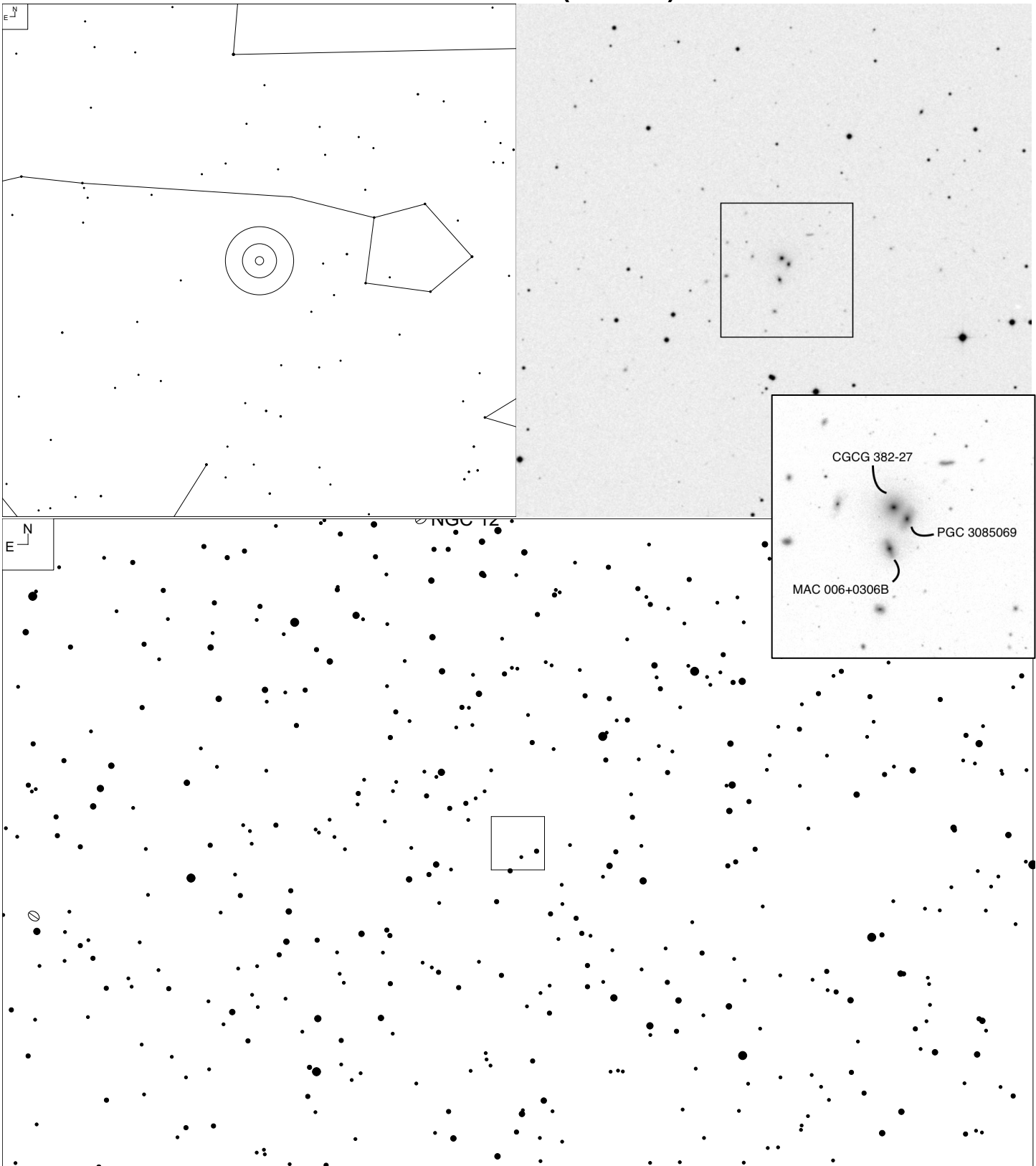
NGC 7778 (Pisces)



Object	RA	Dec	Mag	Size
NGC 7778	23 53 19.7	+07 52 15	13.7b	1.0 x 0.9'
NGC 7779			13.7b	1.4 x 1.0'
NGC 7781			15.0b	0.7 x 0.2'

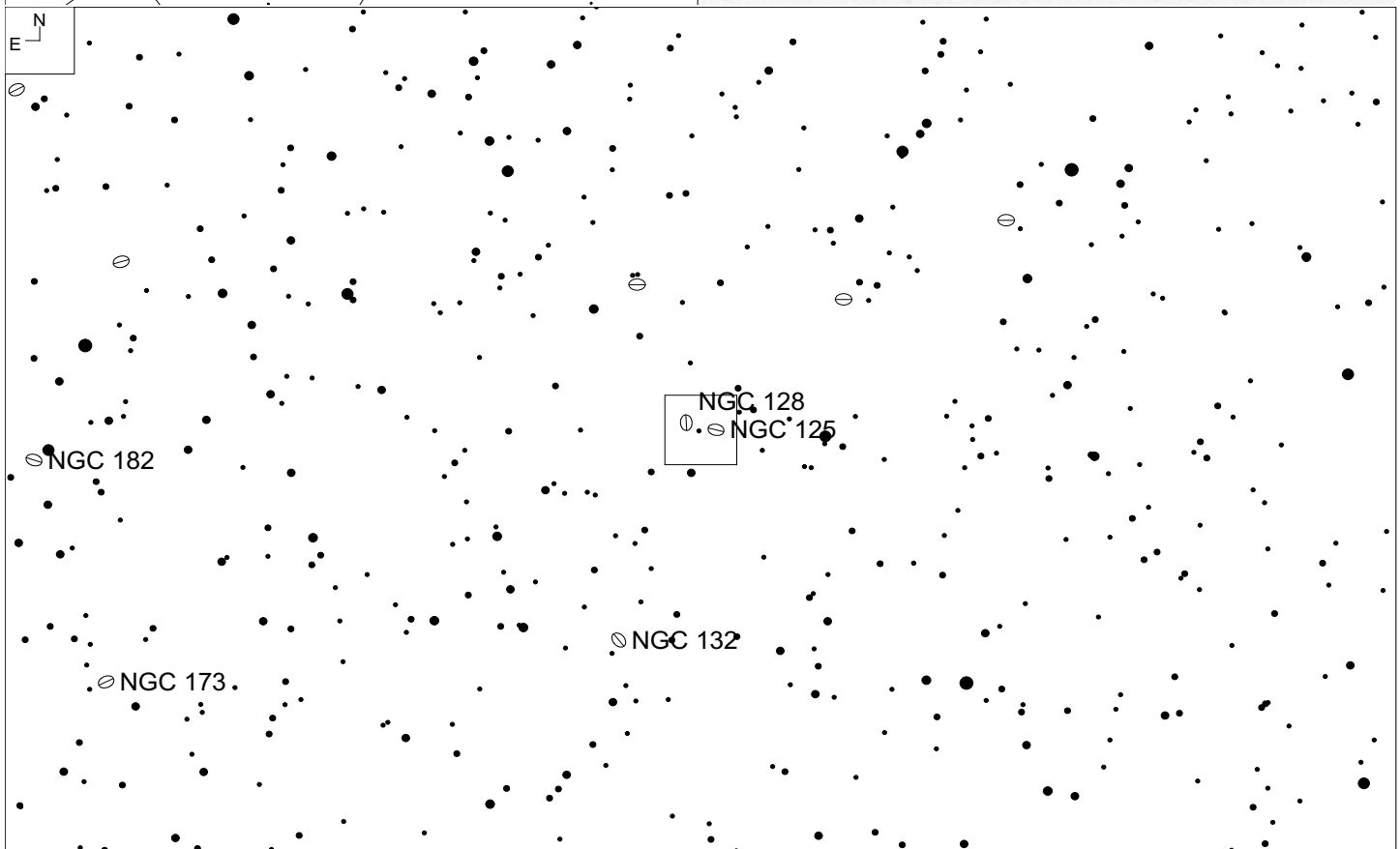
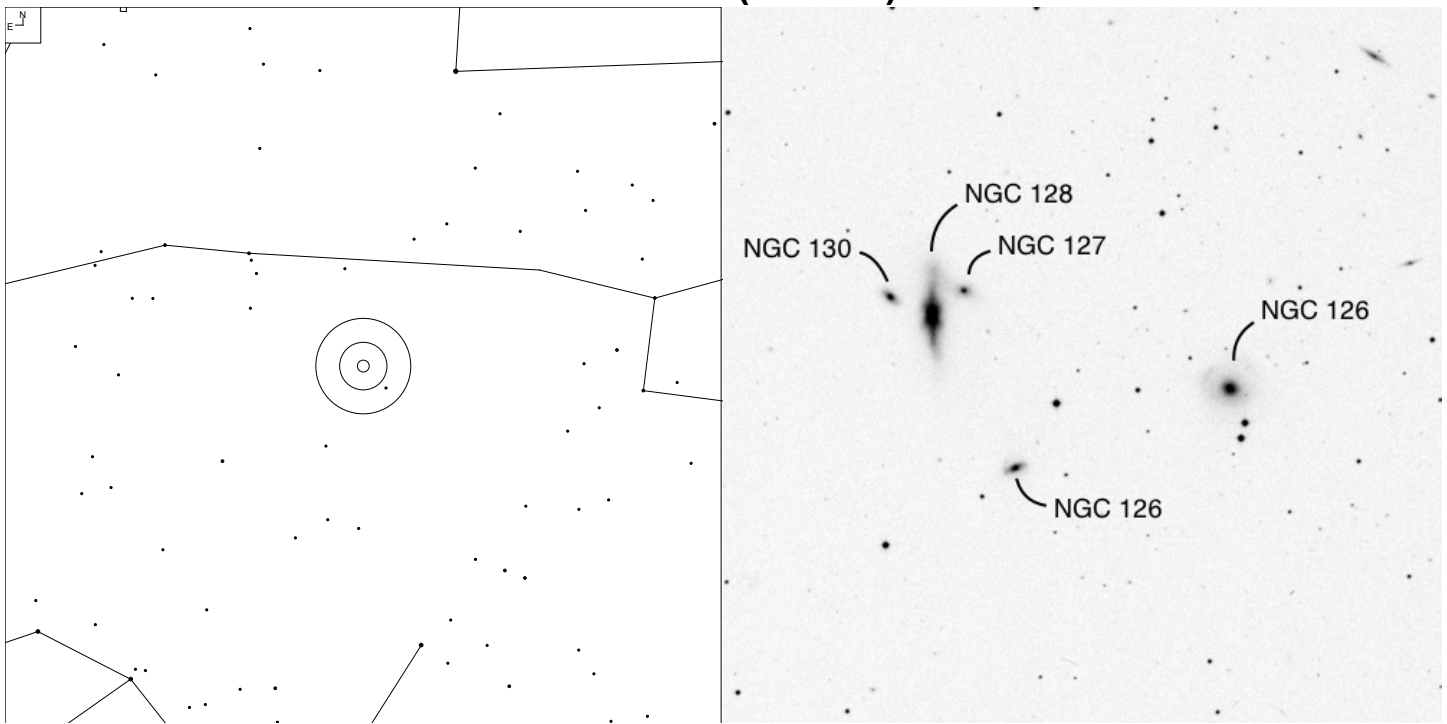
Miles Paul and Astronomical League trio

CGCG 382-27 (Pisces)



Object	RA	Dec	Mag	Size
CGCG 382-27	00 06 57.0	+03 06 47	15.5	0.3 x 0.2'
PGC 3085069			16.0	0.3 x 0.2'
MAC 0006+0306B			16.0	0.4 x 0.2'

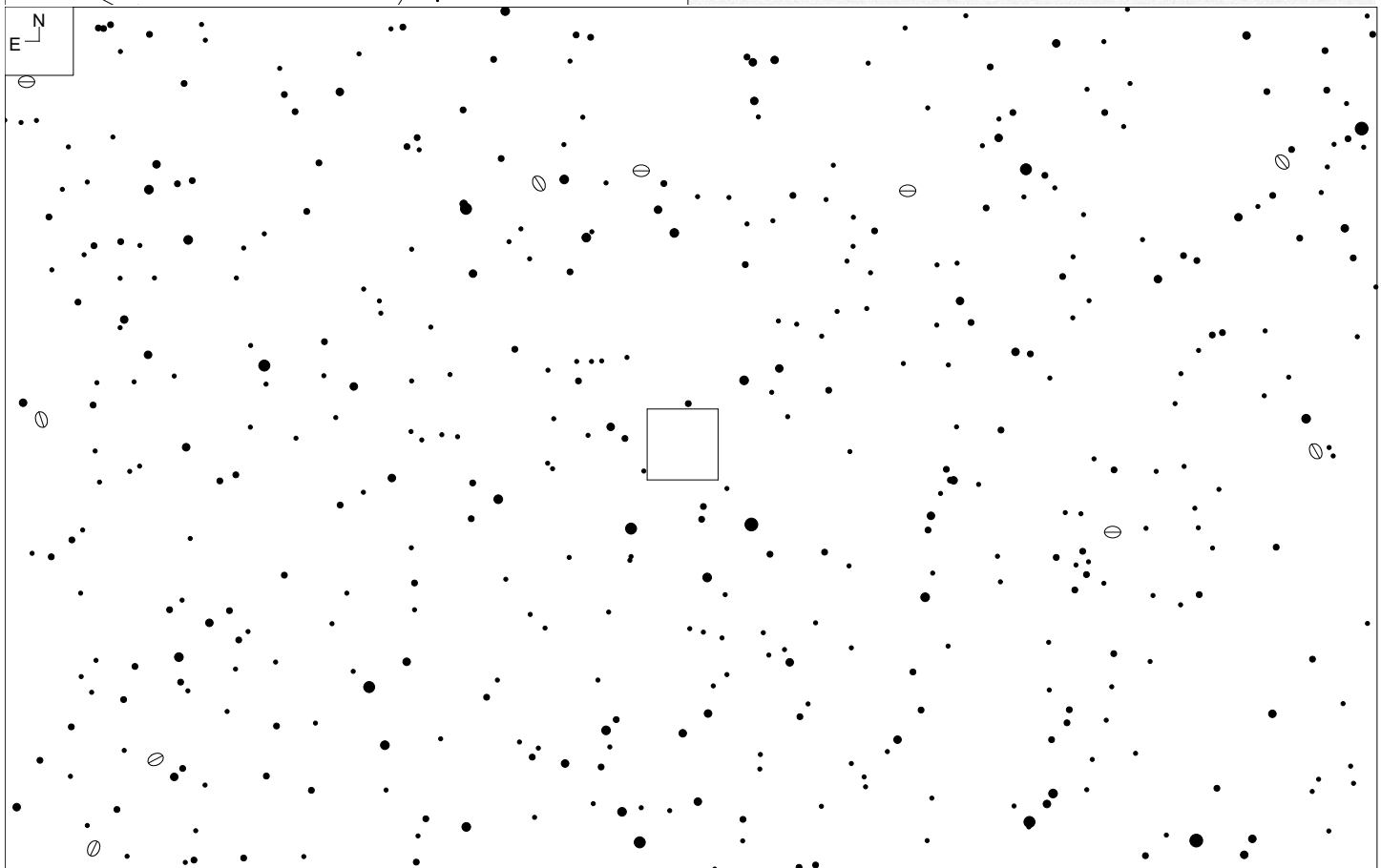
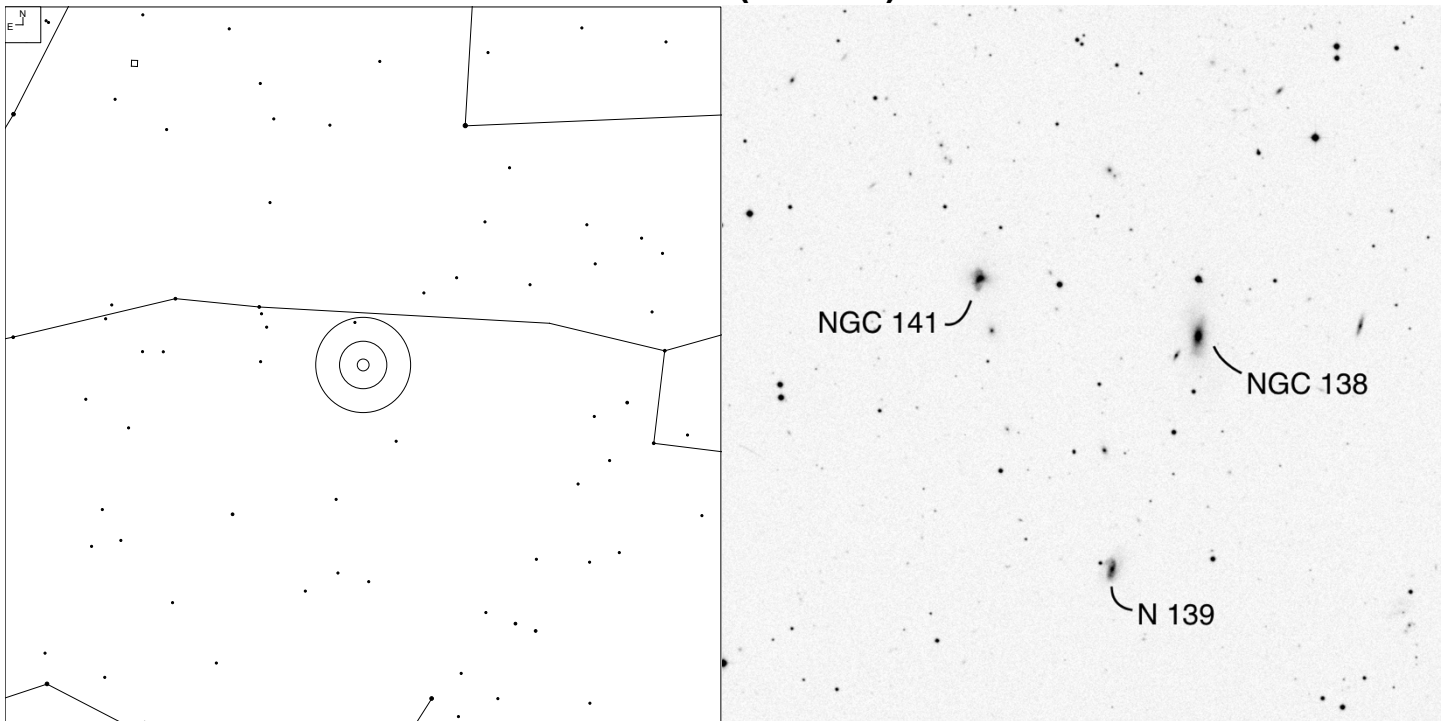
NGC 128 (Pisces)



Object	RA	Dec	Mag	Size
NGC 128	00 29 15.1	+02 51 50	12.8b	2.7 x 0.8'
NGC 127			15.3	0.8 x 0.5'
NGC 130			14.9	0.7 x 0.3'
NGC 125			13.1b	1.6 x 1.4'
NGC 126			15.2p	0.7 x 0.5'

Miles Paul and Astronomical League trio

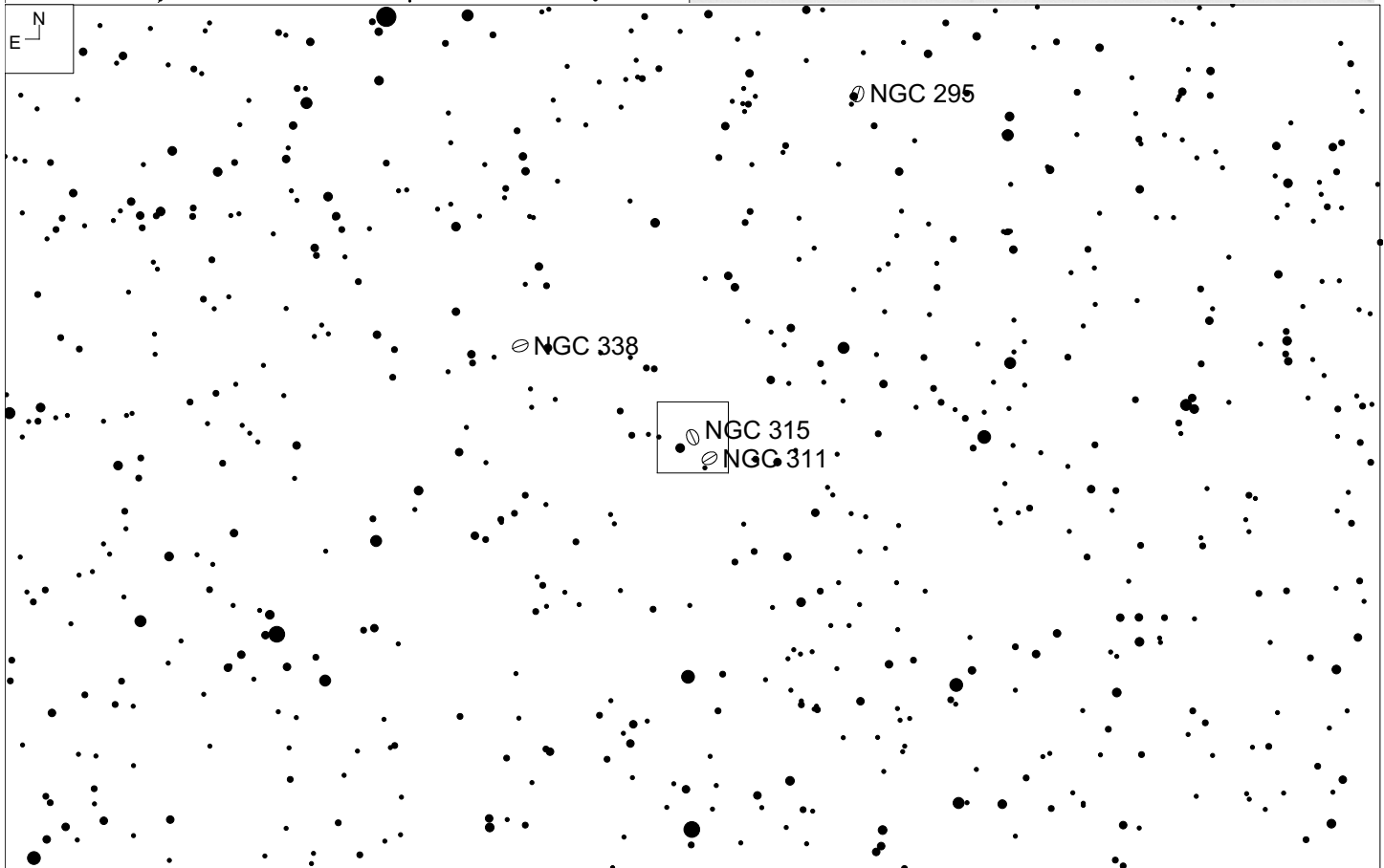
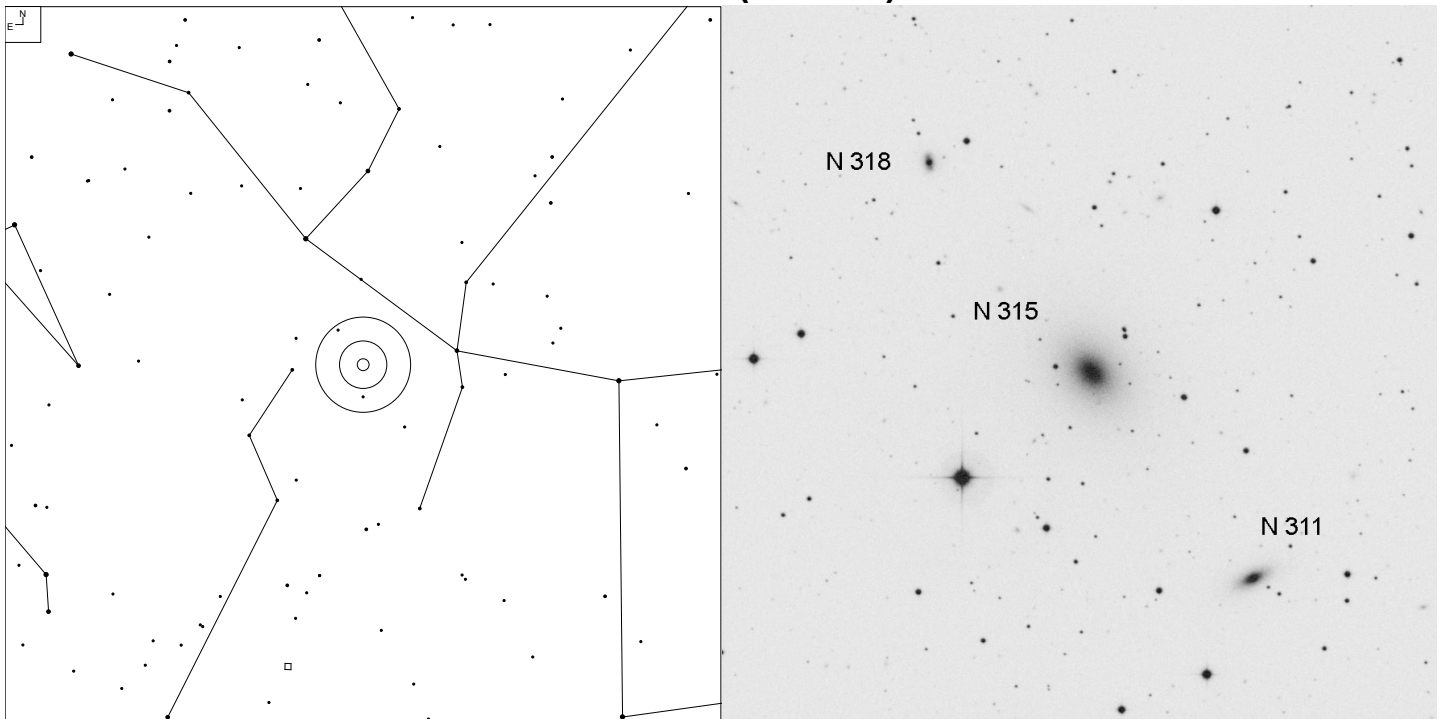
NGC 138 (Pisces)



Object	RA	Dec	Mag	Size
NGC 138	00 30 59.3	+05 09 35	14.6p	1.3 x 0.5'
NGC 141			15.3	0.6 x 0.6'
NGC 139			15.3p	0.8 x 0.4'

Miles Paul and Astronomical League trio

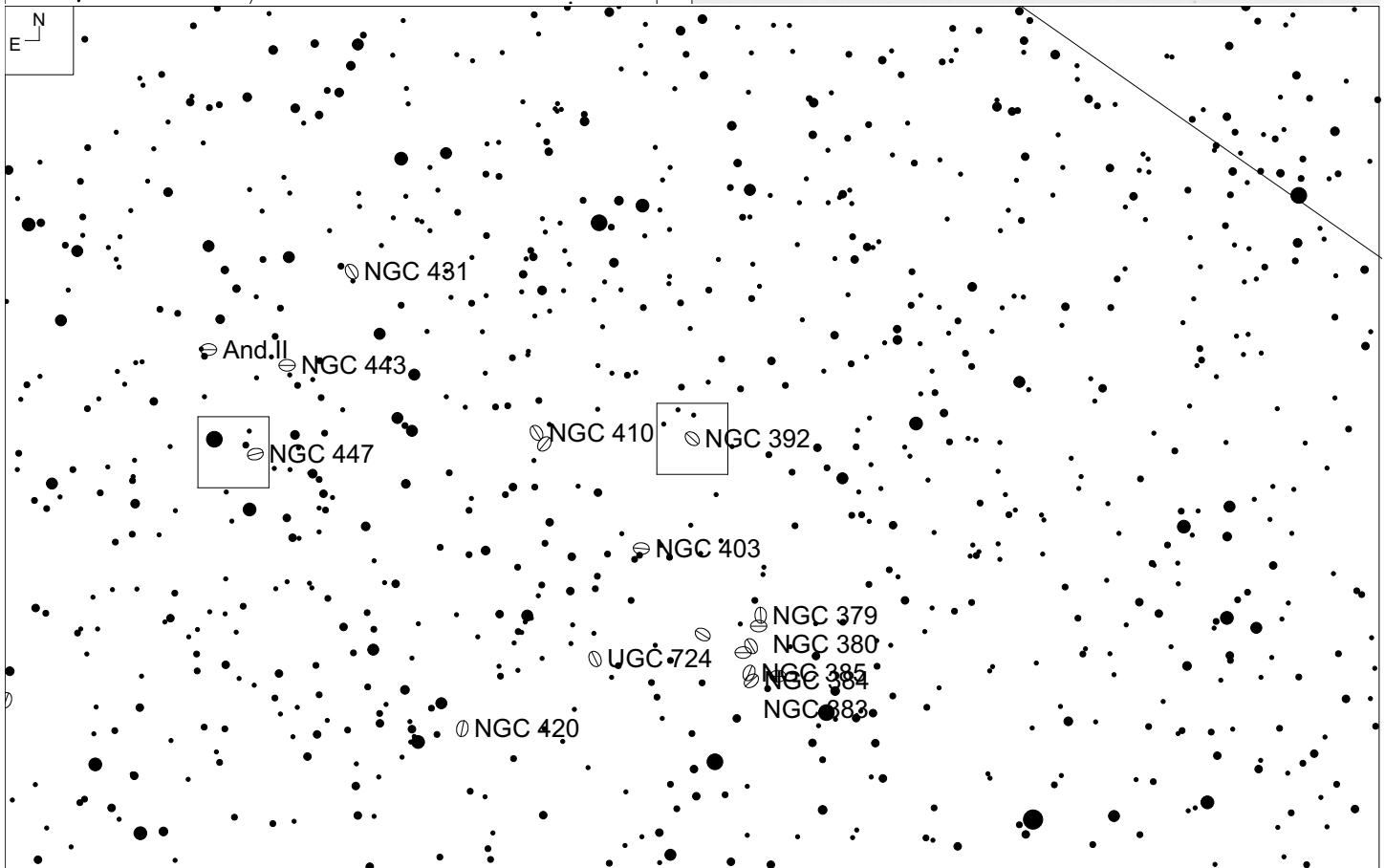
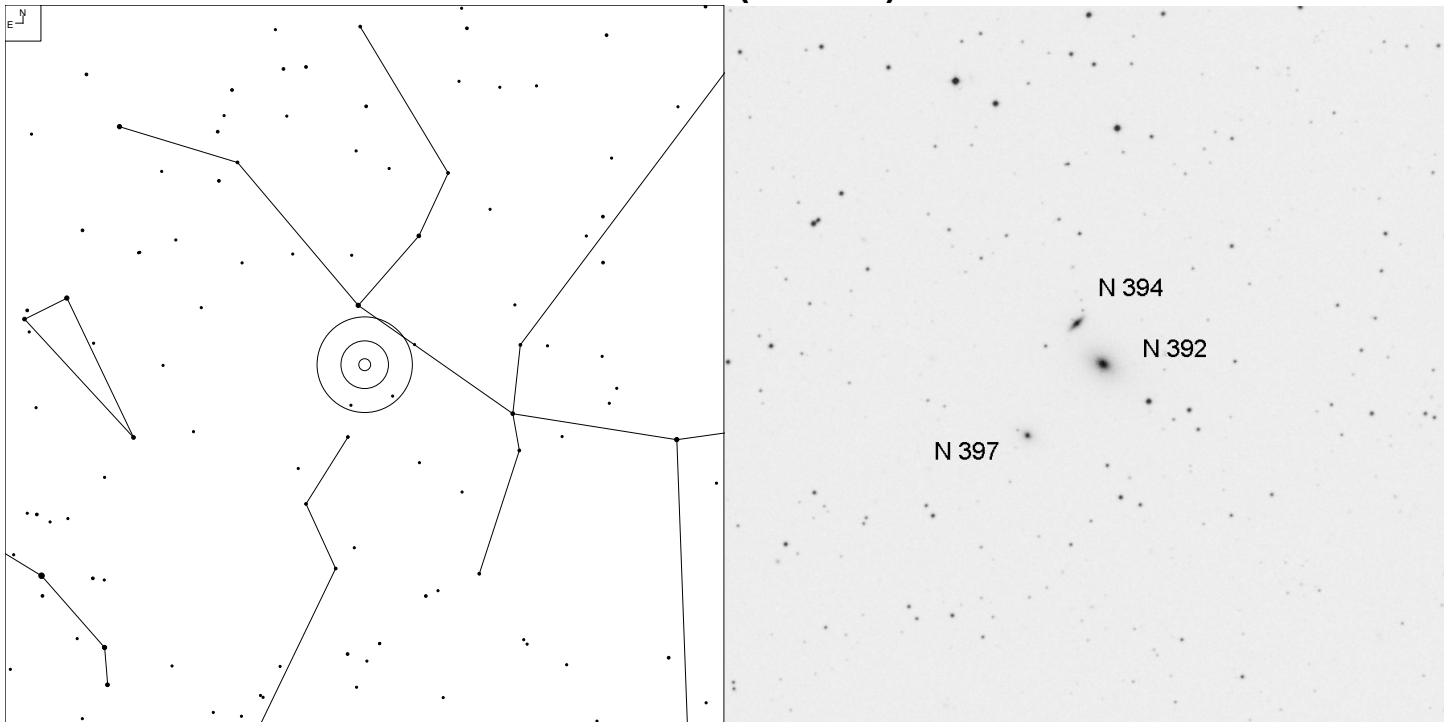
NGC 315 (Pisces)



Object	RA	Dec	Mag	Size
NGC 315	00 57 49.1	+30 21 10	12.2b	3.2 x 2.2'
NGC 311			14.0b	1.8 x 0.8'
NGC 318			15.2	0.6 x 0.4'

Miles Paul trio

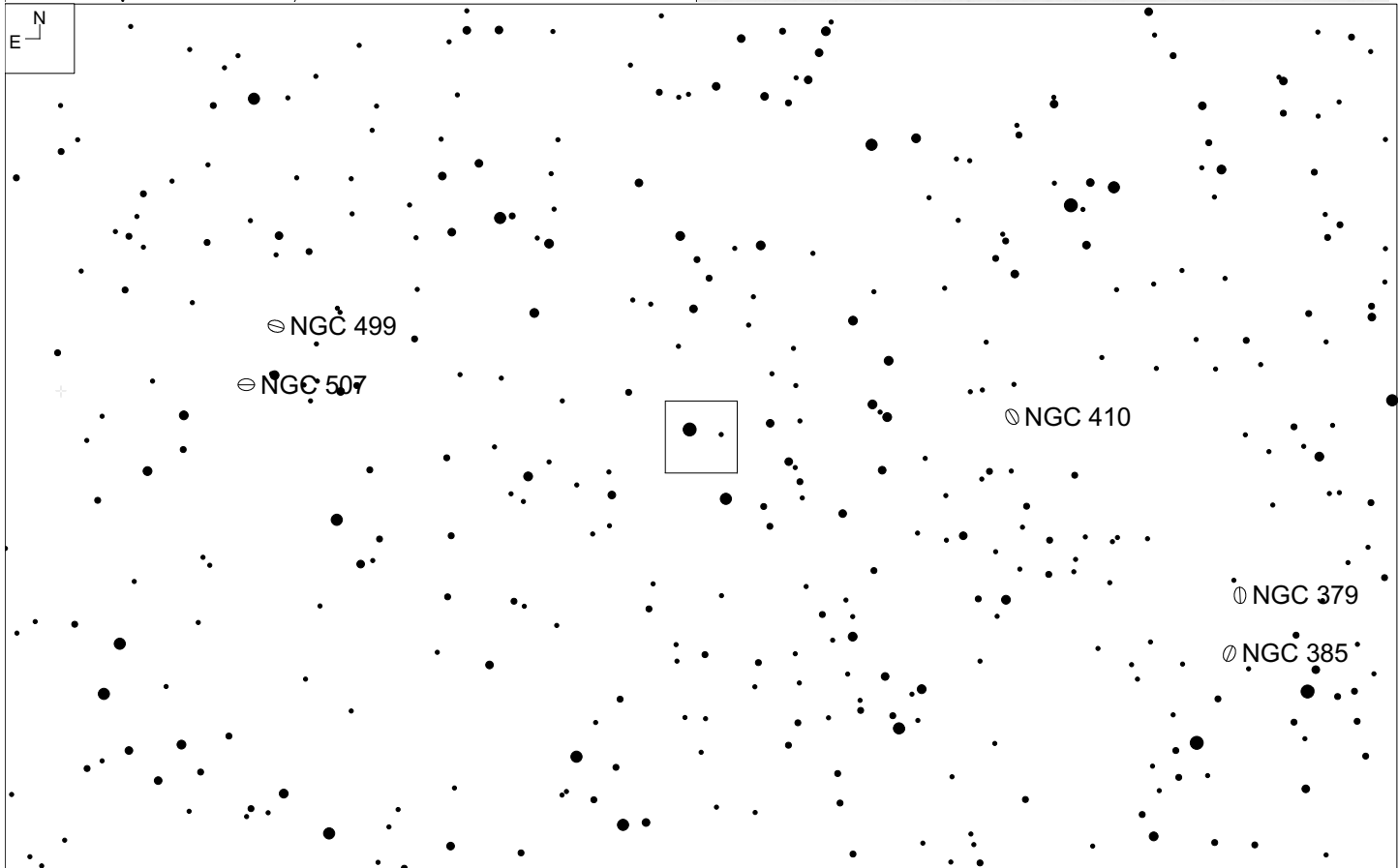
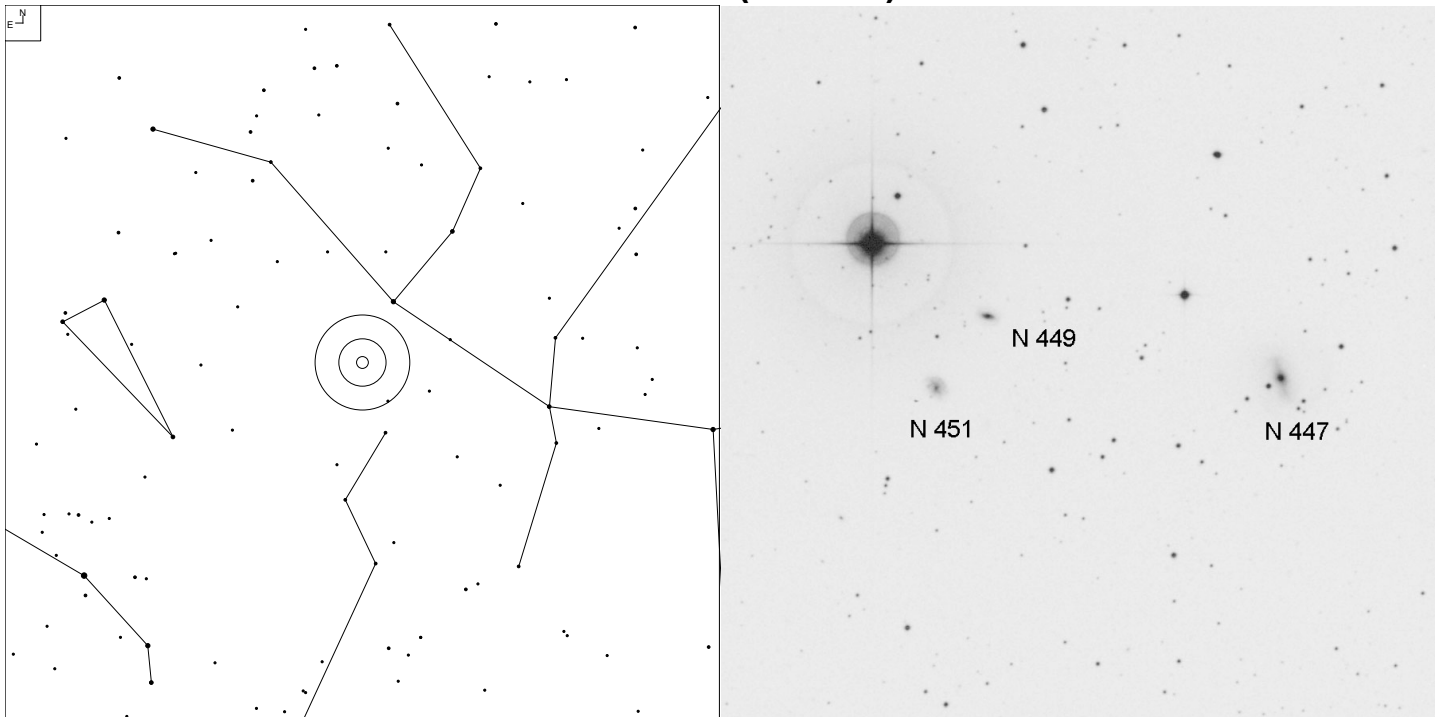
NGC 392 (Pisces)



Object (KTG 3)	RA	Dec	Mag	Size
NGC 392	01 08 23.4	+33 07 59	13.7b	1.2 x 1.0'
NGC 394			15.0	1.1 x 0.5'
NGC 397			15.5	0.7 x 0.5'

Miles Paul and Astronomical League trio.

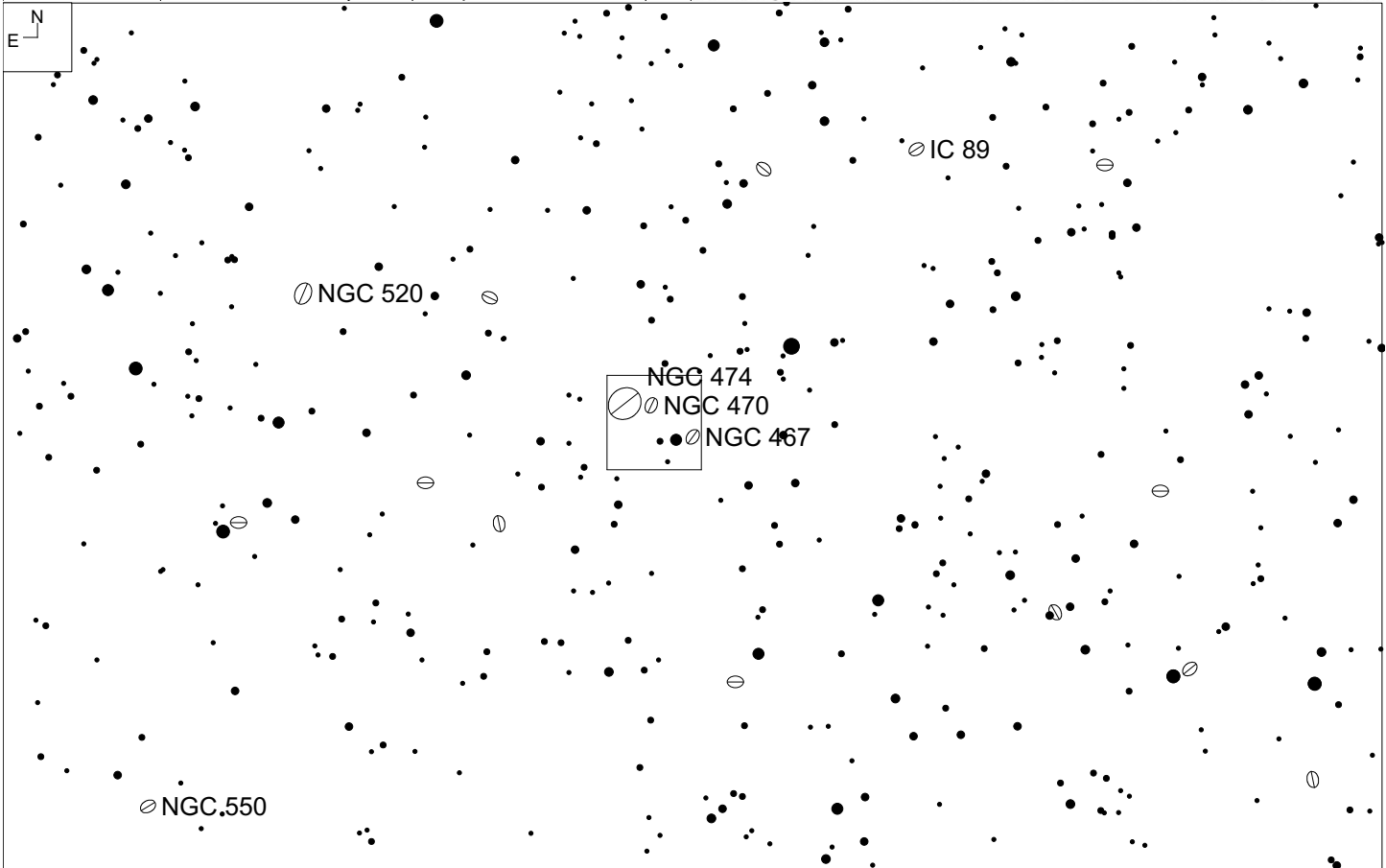
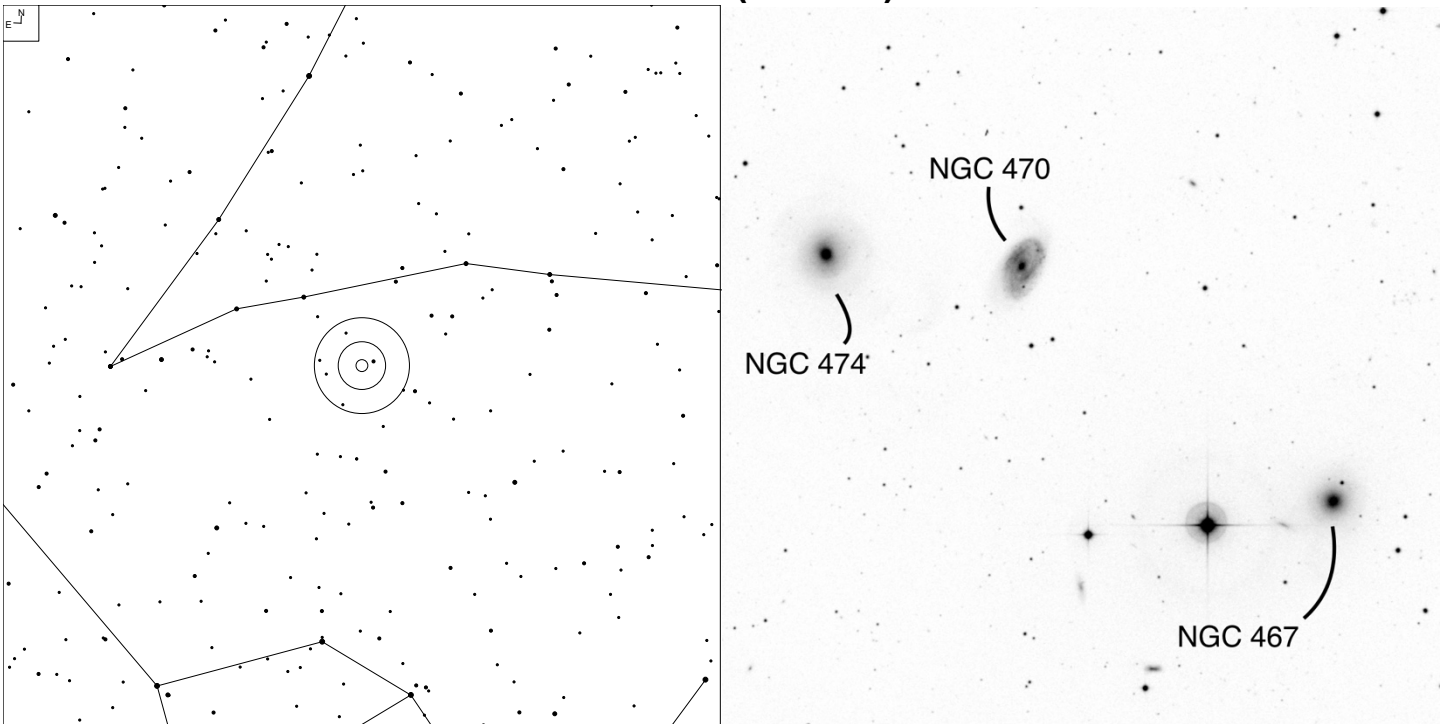
NGC 451 (Pisces)



Object	RA	Dec	Mag	Size
NGC 451	01 16 12.5	+33 03 50	14.9p	0.7 x 0.6'
NGC 447			14.0v	2.8 x 2.1'
NGC 449			14.2v	0.8 x 0.5'

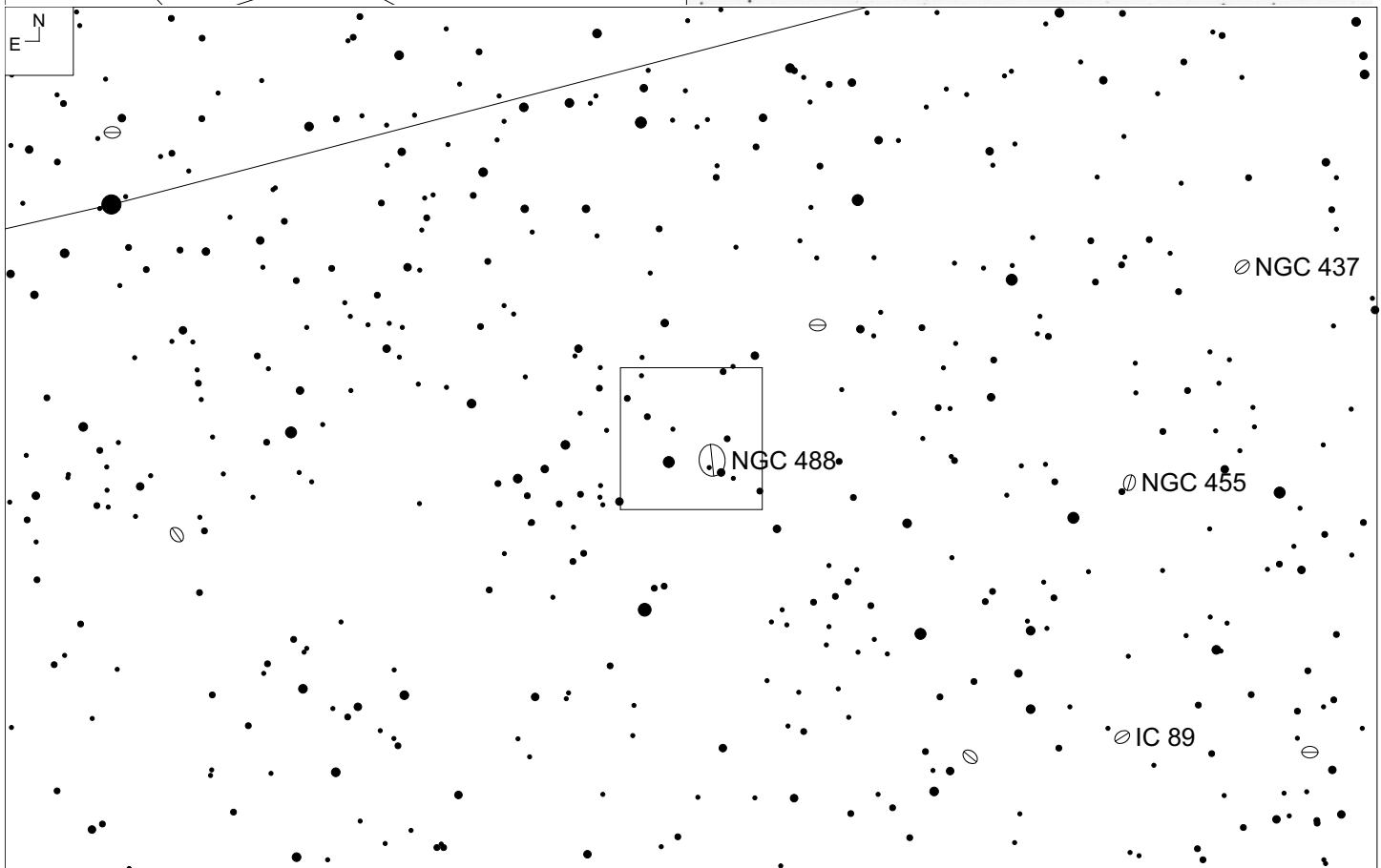
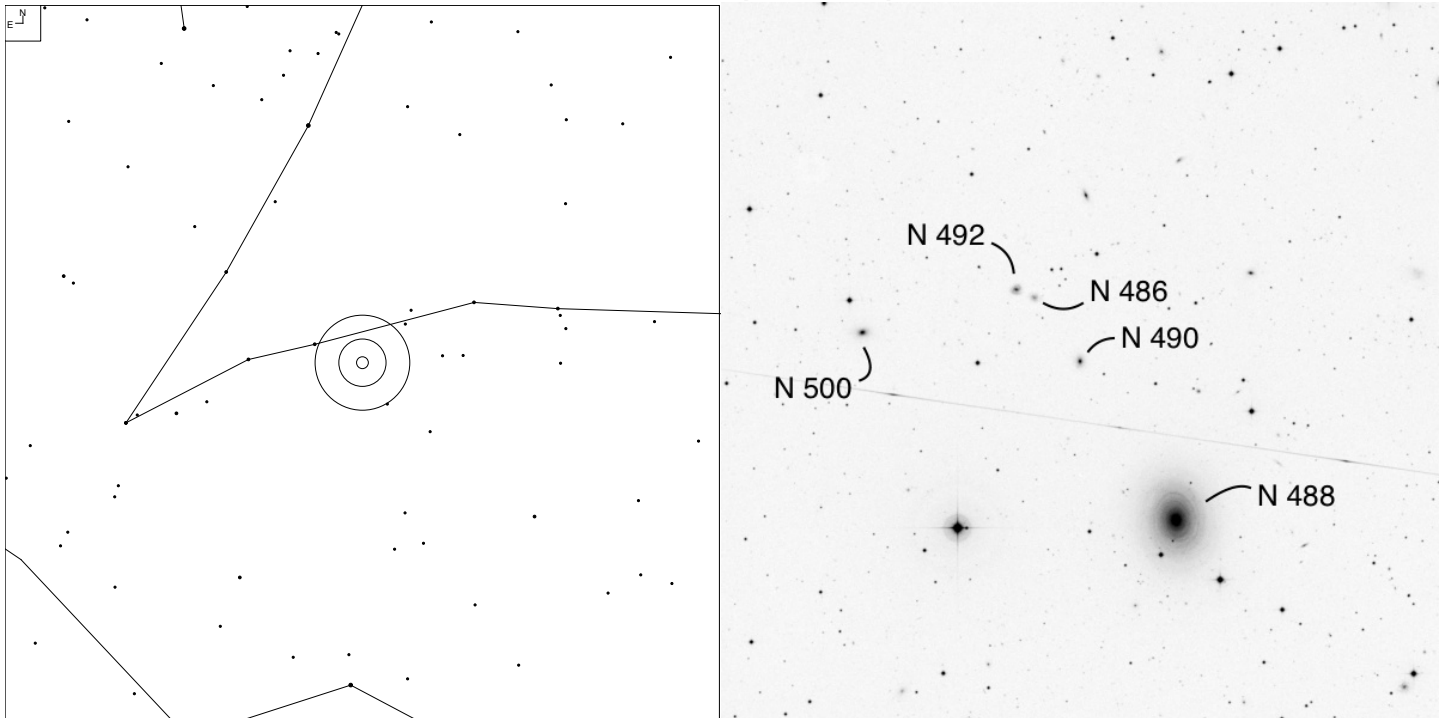
Miles Paul trio

NGC 467 (Pisces)



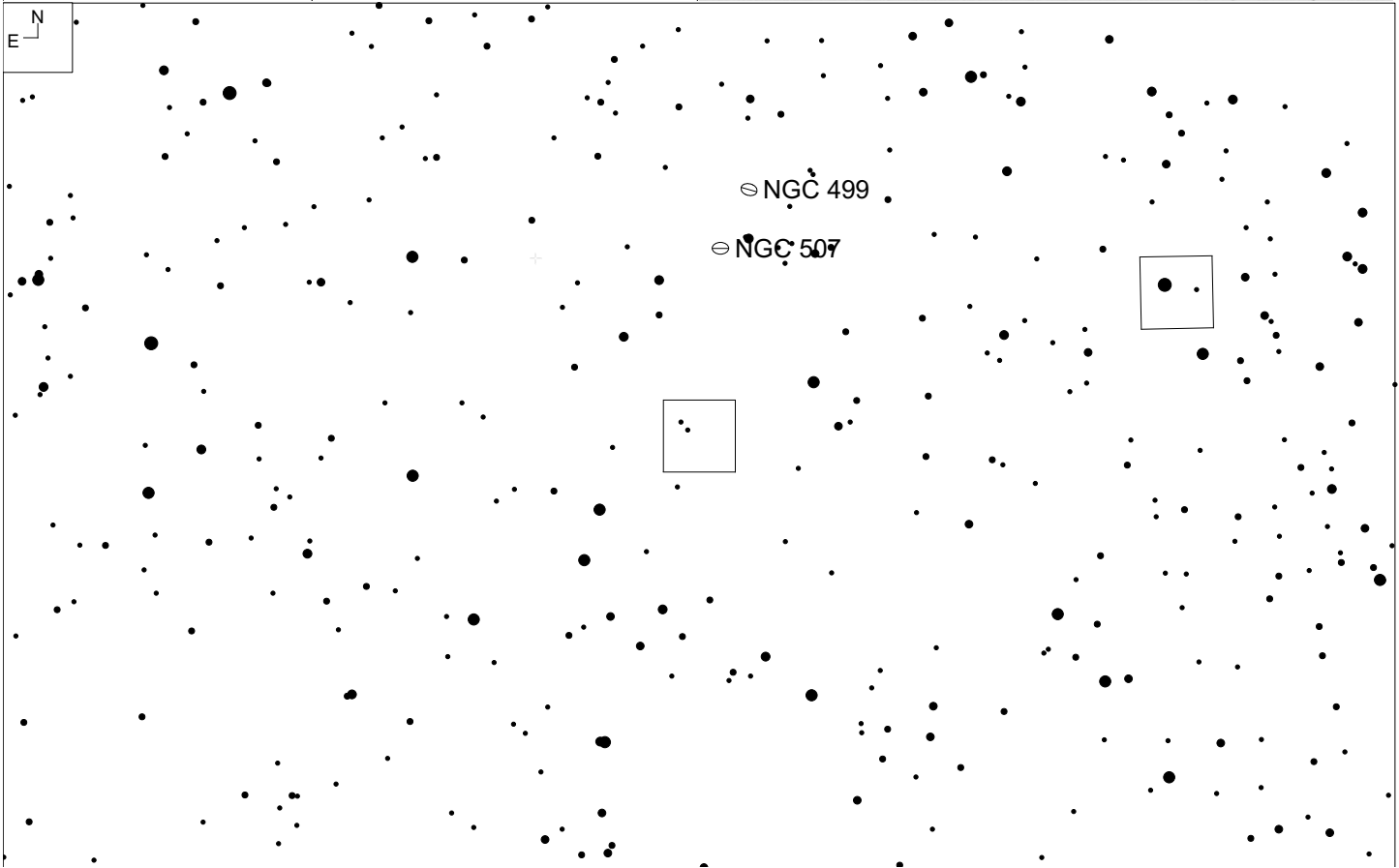
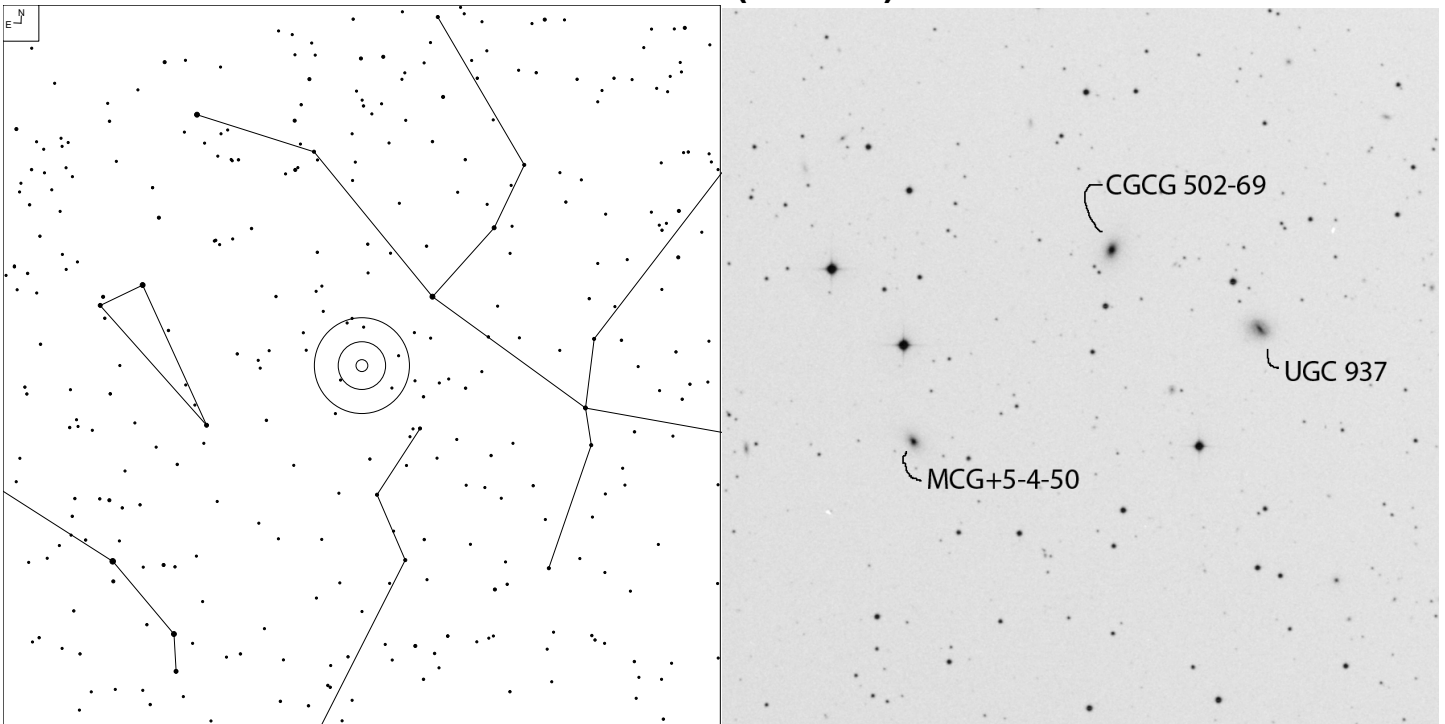
Object (KTG 5)	RA	Dec	Mag	Size
NGC 467	01 19 10.1	+03 18 02	12.9b	1.6 x 1.5'
NGC 470			12.5b	2.8 x 1.7'
NGC 474			12.4b	7.0 x 6.2'

NGC 490 (Pisces)



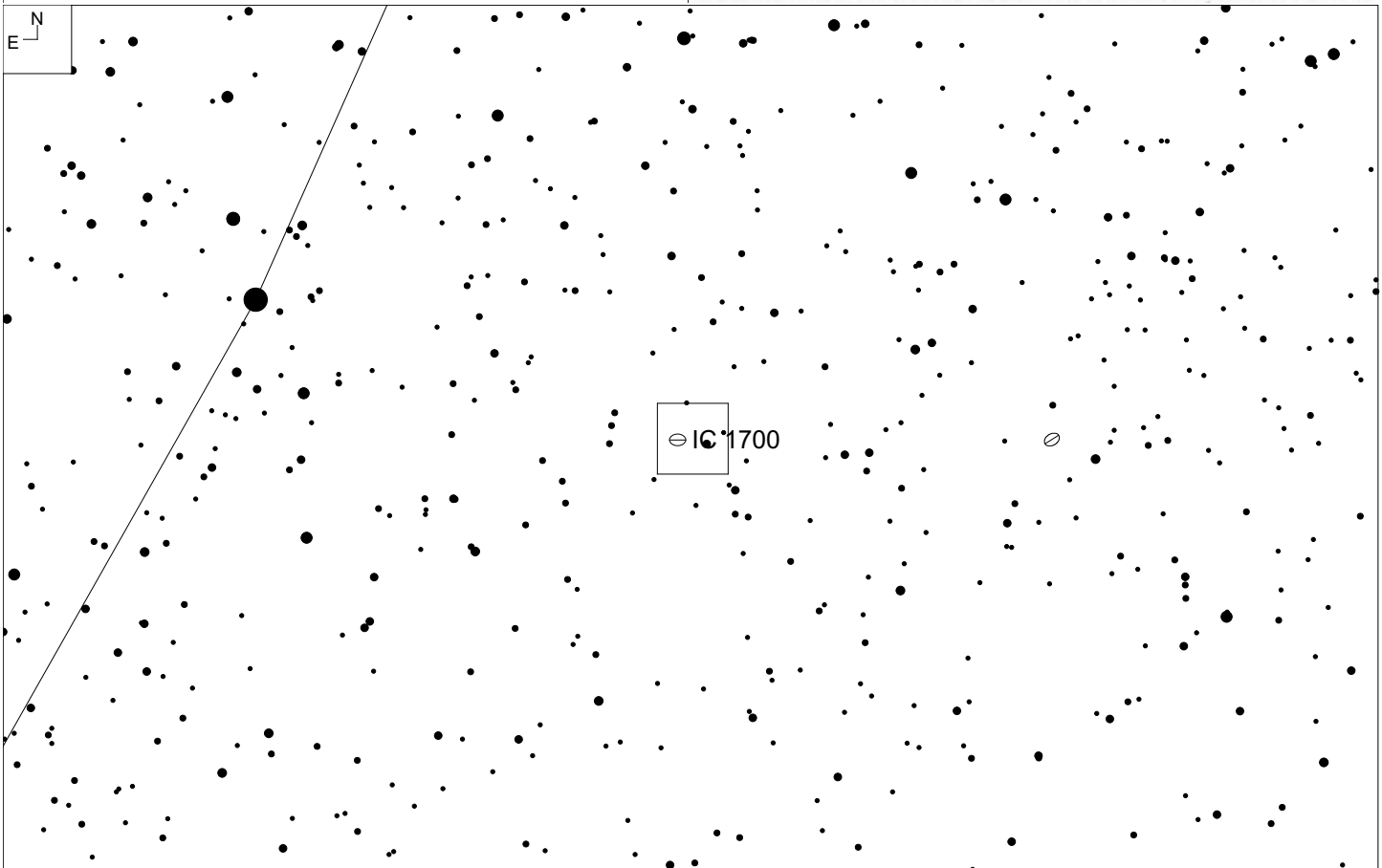
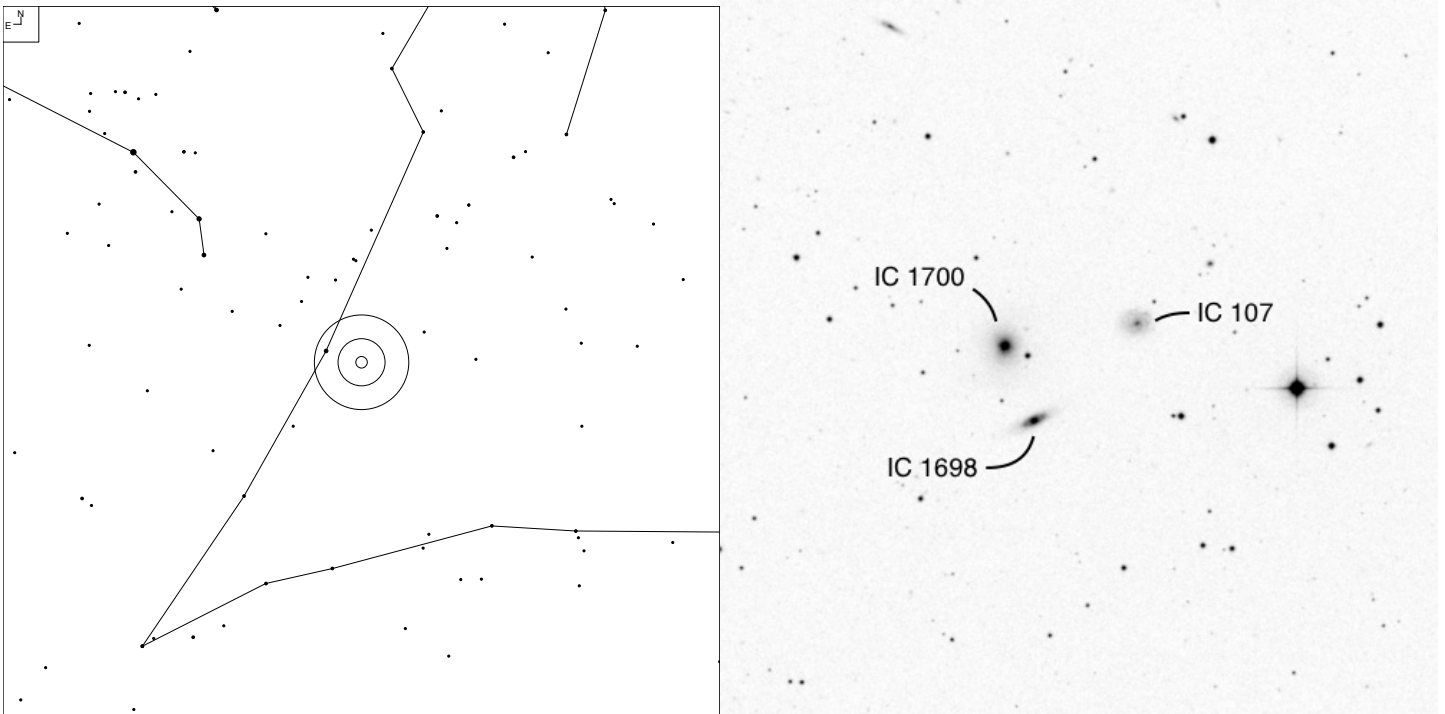
Object	RA	Dec	Mag	Size
NGC 490	01 22 02.9	+05 22 02	15.3p	0.7 x 0.5'
NGC 486			15.5	0.4'
NGC 492			15.4	0.6 x 0.5'
NGC 488			10.2v	6.6 x 5.3'

UGC 937 (Pisces)



Object (KTG 7)	RA	Dec	Mag	Size
UGC 937	01 23 37.3	+32 37 48	15.0p	0.9 x 0.8'
CGCG 502-69			15.6	0.8 x 0.6'
MCG+5-4-50			15.8	0.6 x 0.4'

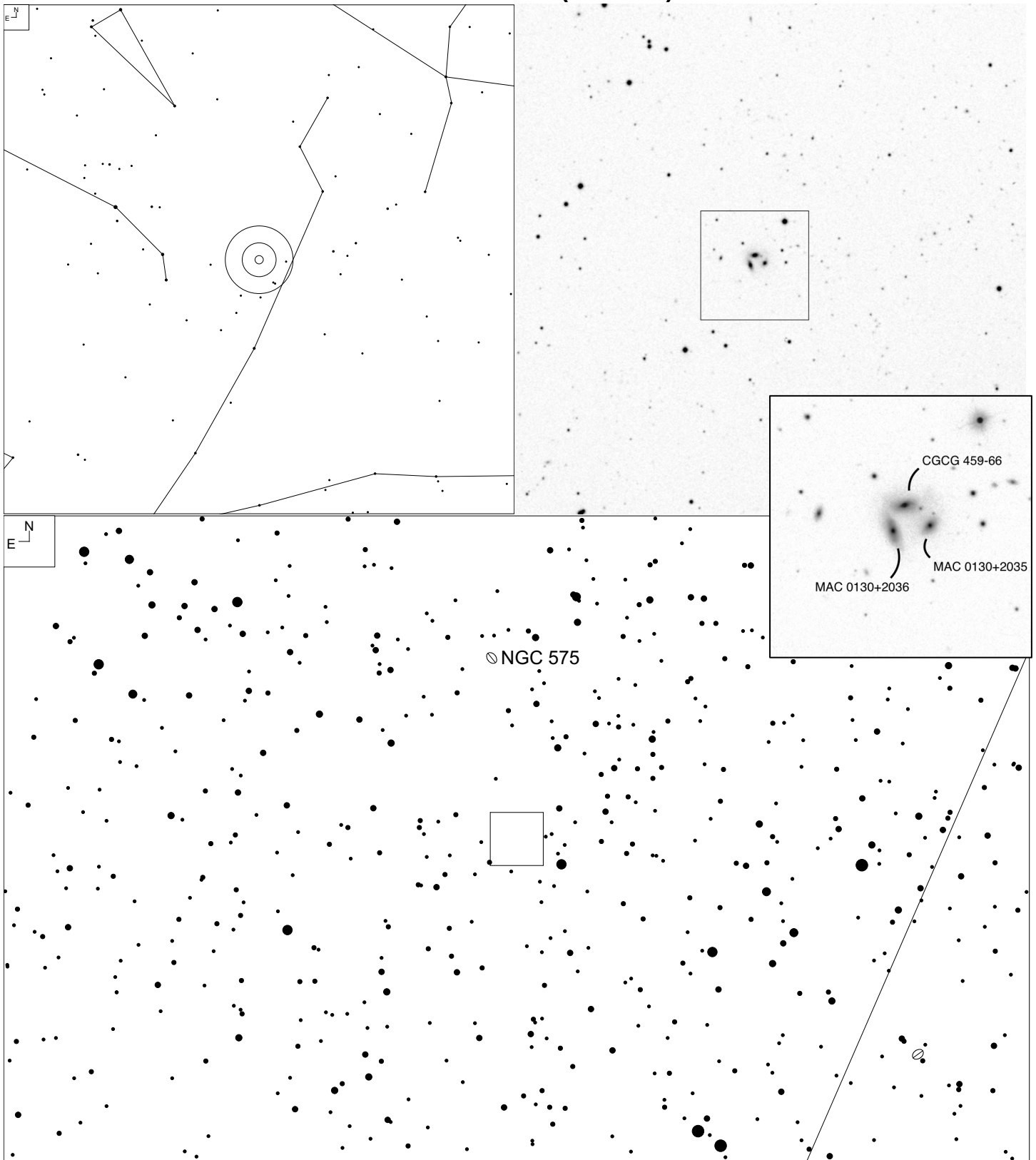
IC 107 (Pisces)



Object	RA	Dec	Mag	Size
IC 107	01 25 13.3	+14 52 21	14.9p	1.0 x 0.8'
IC 1698			14.4p	1.7 x 0.6'
IC 1700			13.8p	1.4'

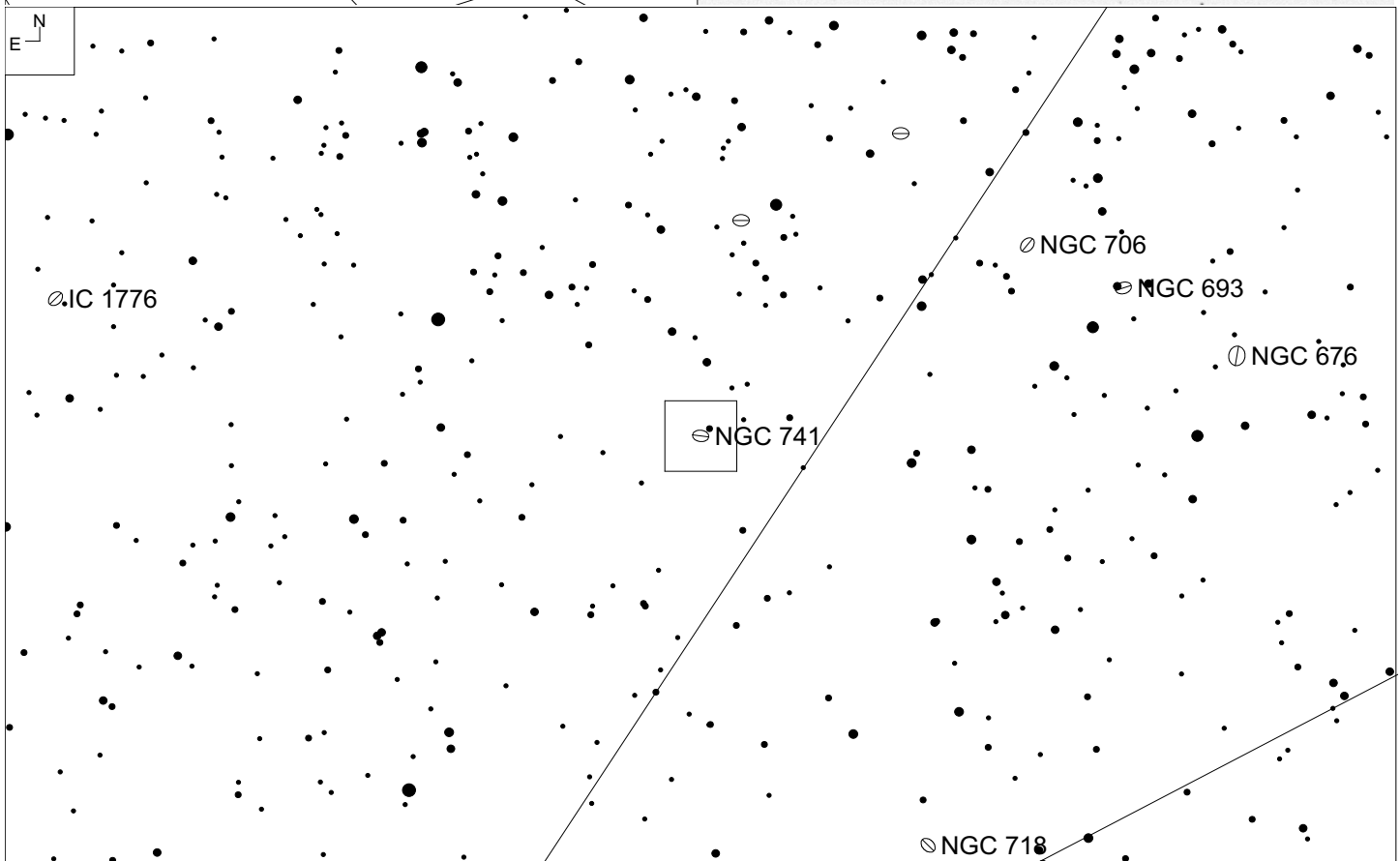
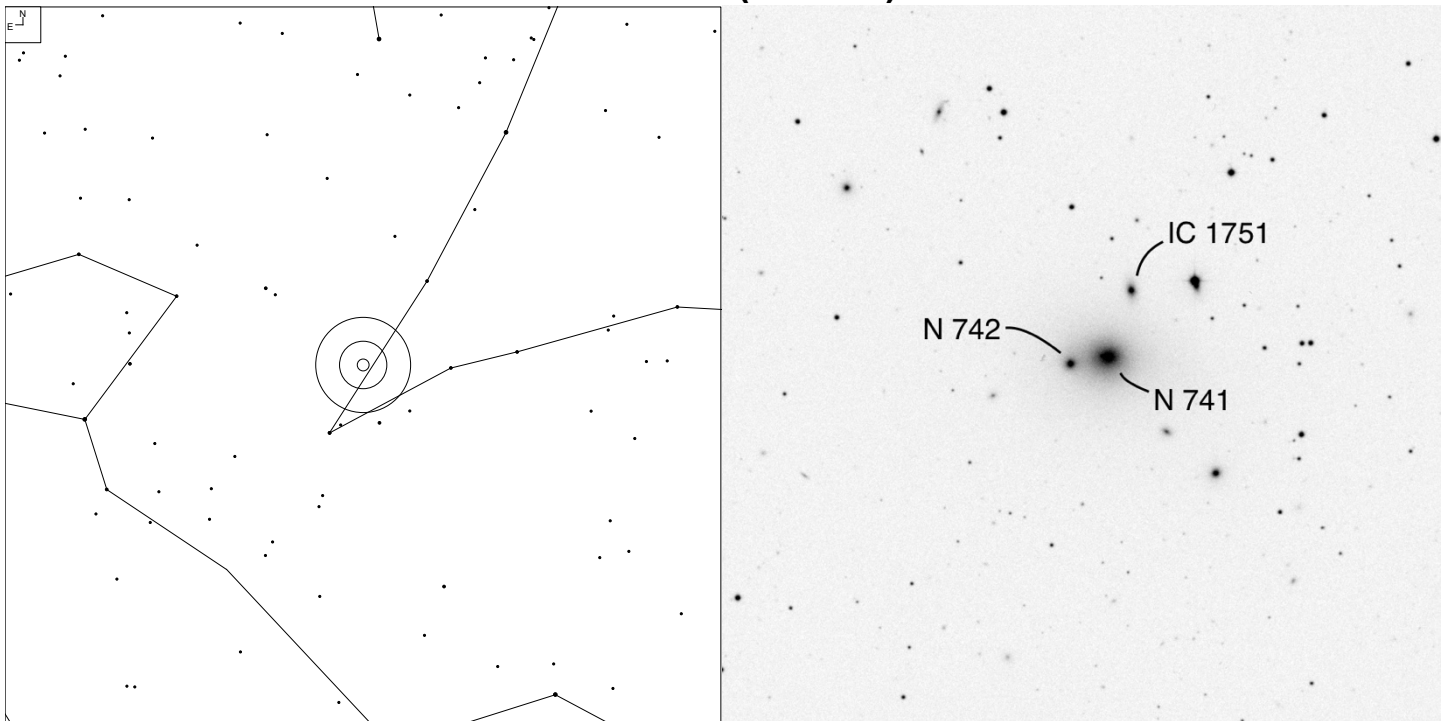
Miles Paul trio

CGCG 459-66 (Pisces)



Object	RA	Dec	Mag	Size
CGCG 459-66	01 30 16.3	+20 35 59	14.9	0.4 x 0.2'
MAC 0130+2035			16.5	0.3 x 0.2'
MAC 0130+2036			16.5	0.2 x 0.1'

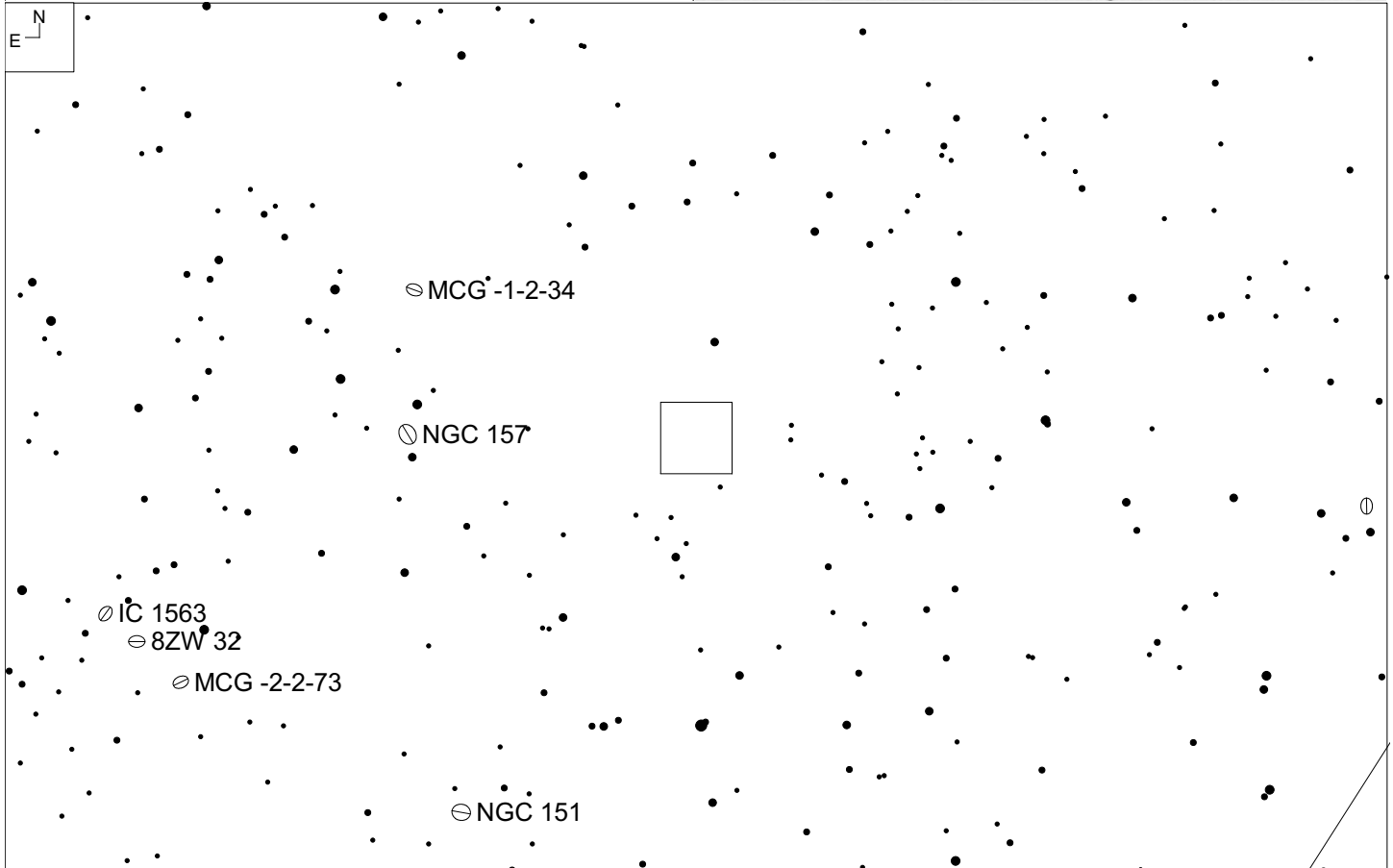
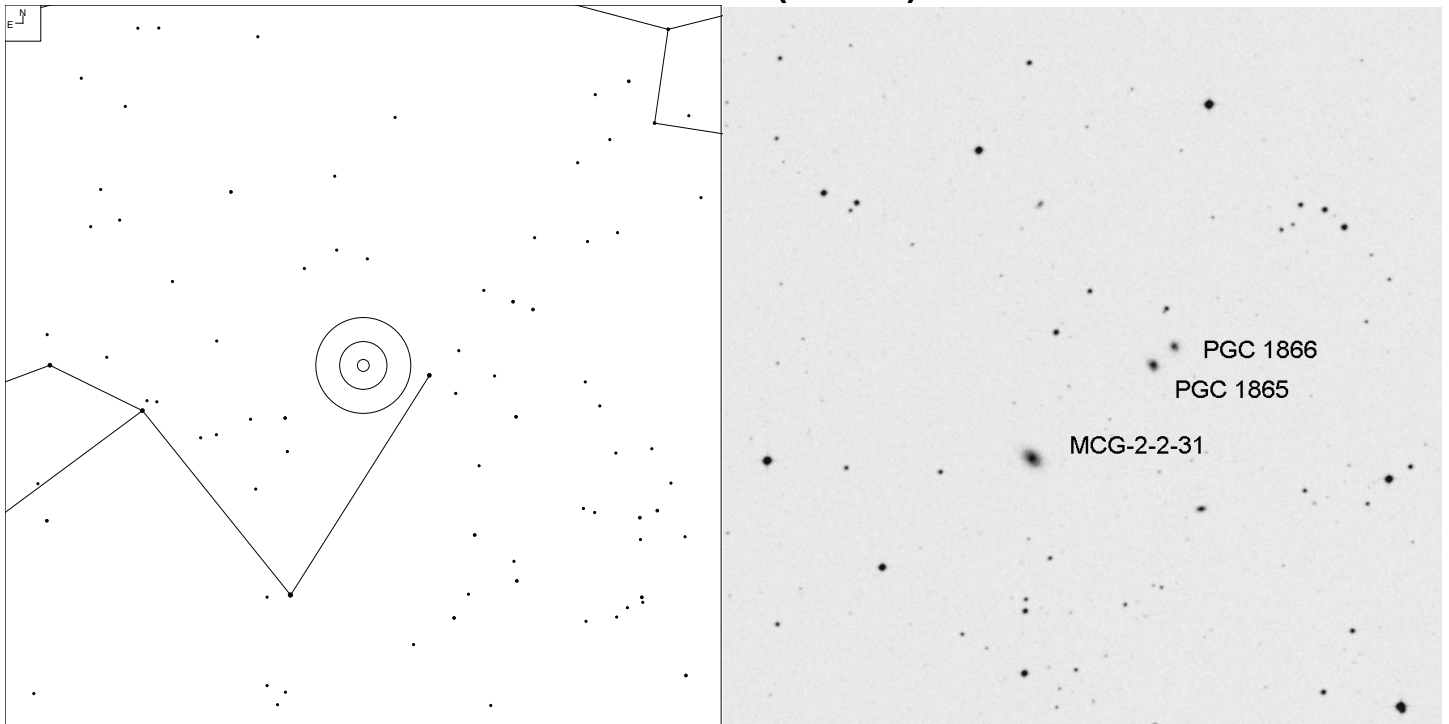
NGC 741 (Pisces)



Object	RA	Dec	Mag	Size
NGC 741	01 56 21.0	+05 37 44	12.2b	2.9 x 2.8'
NGC 742			15.3p	0.3 x 0.3'
IC 1751			15.3	0.4 x 0.2'
MCG+1-6-2			15.4p	0.3 x 0.2'
MCG+1-6-5			16.9	0.3 x 0.2'

Miles Paul trio

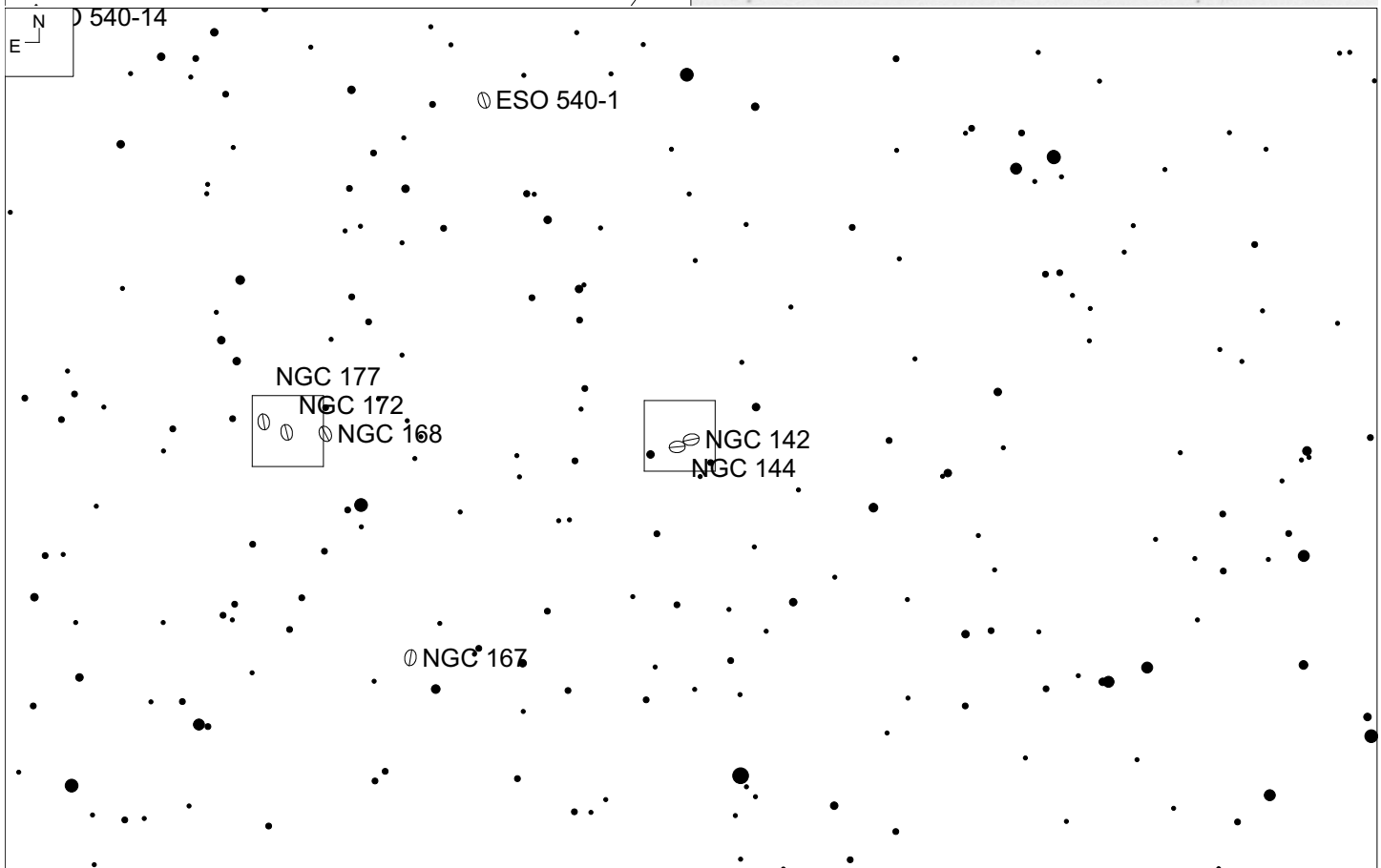
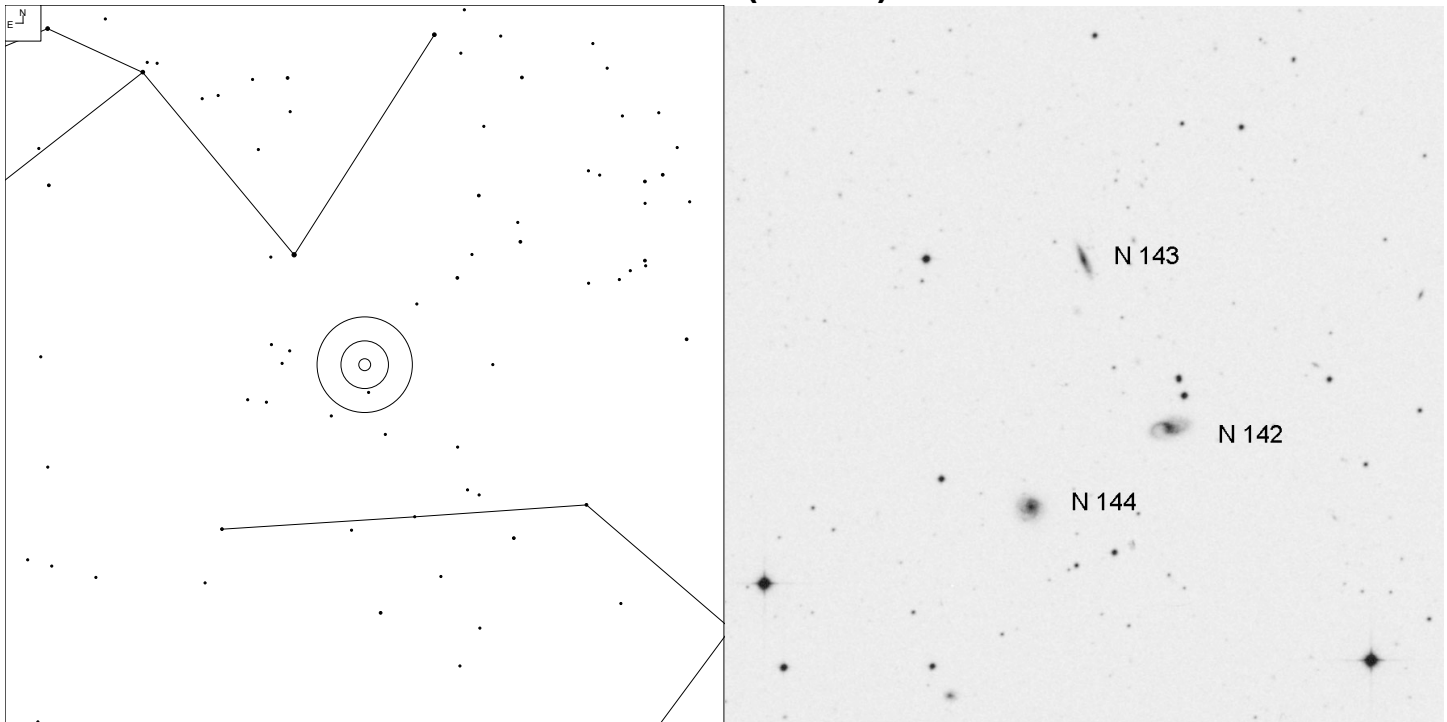
MCG-2-2-31 (Cetus)



Object	RA	Dec	Mag	Size
MCG-2-2-31	00 30 44.9	-08 24 54	15.7	0.5 x 0.4'
PGC 1865 (KAZ 357)			16.3	0.3'
PGC 1866 (KAZ 356)			16.4	0.2'

Miles Paul trio

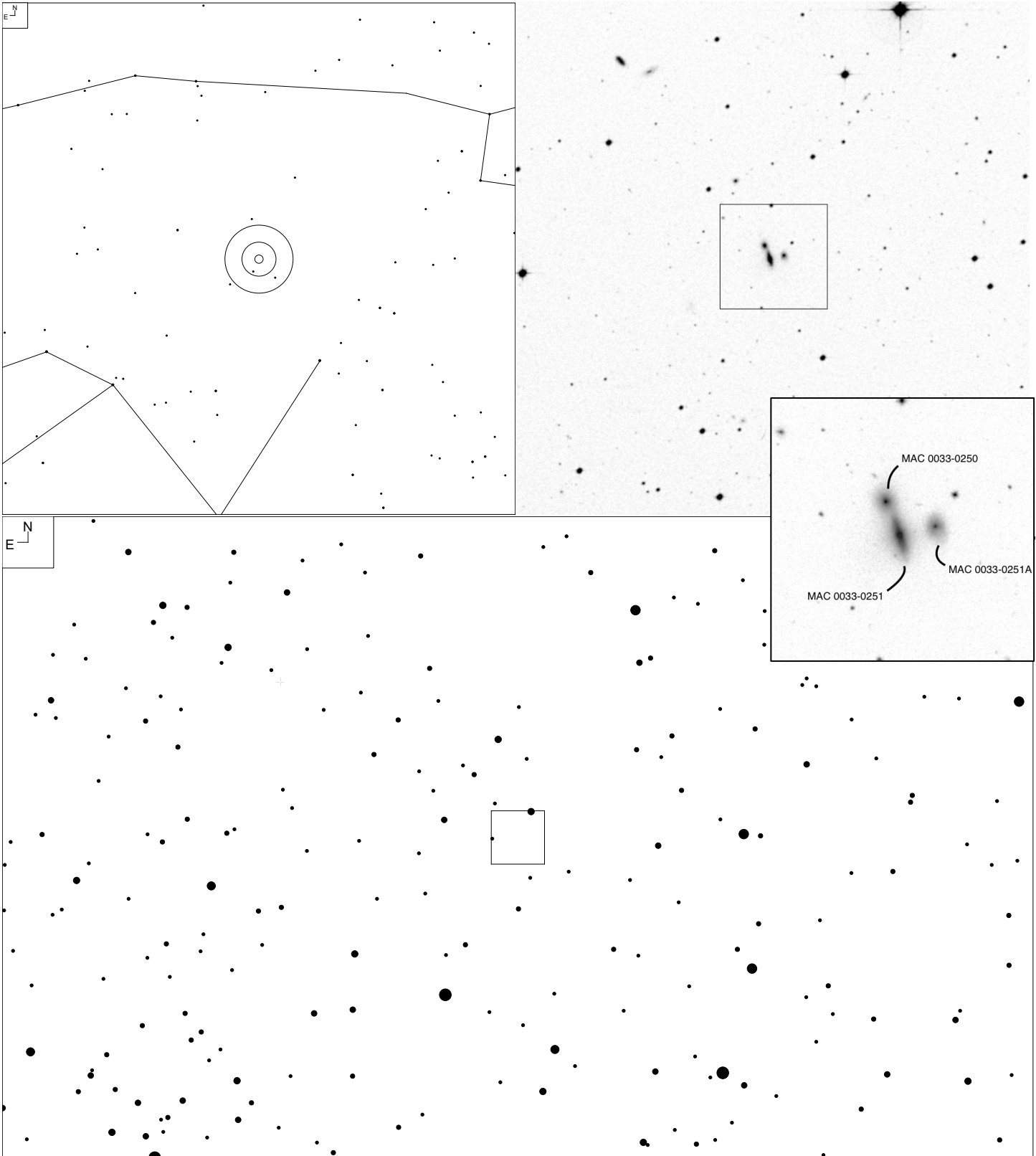
NGC 142 (Cetus)



Object	RA	Dec	Mag	Size
NGC 142	00 31 07.9	-22 37 10	14.6p	1.0 x 0.5'
NGC 144			14.4p	0.8 x 0.7'
NGC 143			15.2p	0.9 x 0.2'

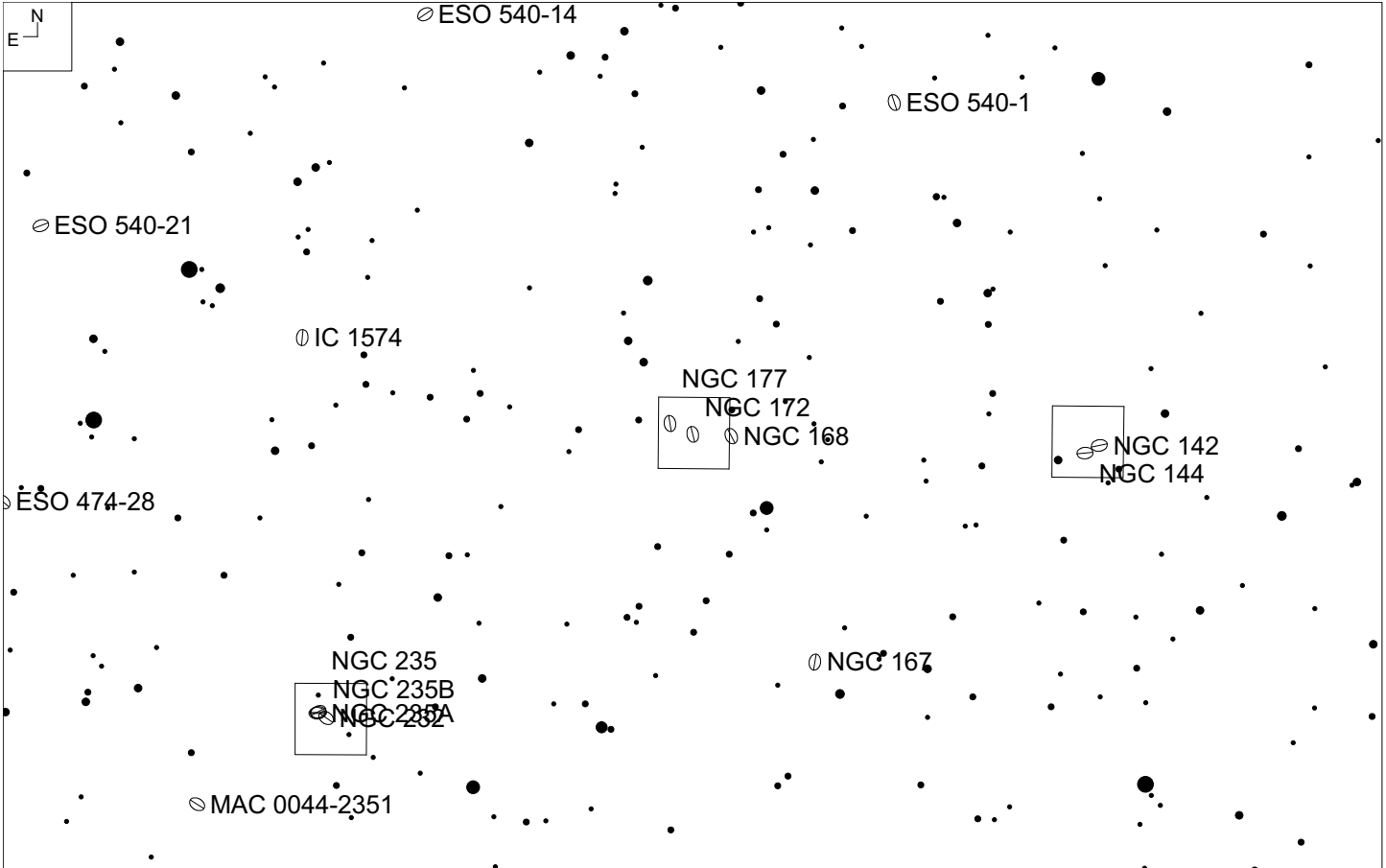
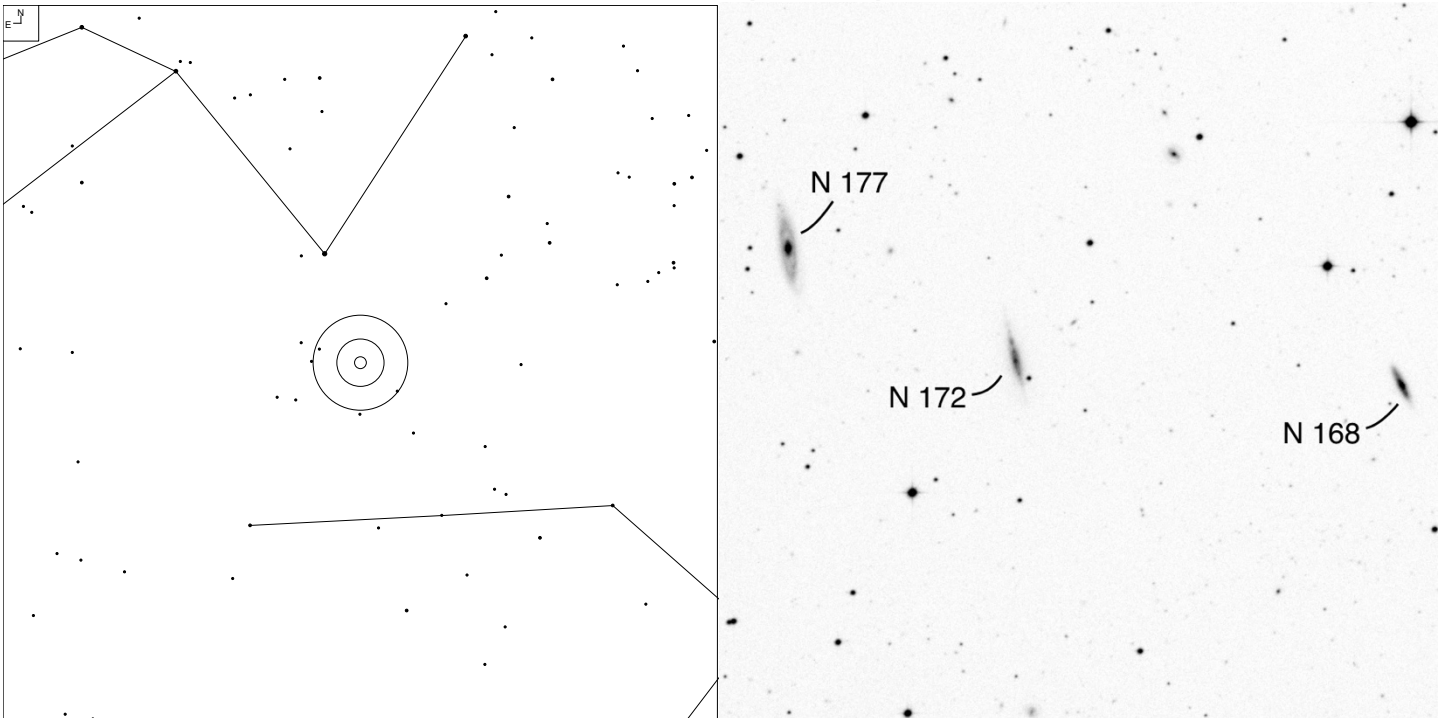
Miles Paul and Astronomical League trio

MAC 0033-0251 (Cetus)



Object	RA	Dec	Mag	Size
MAC 0033-0251	00 33 53.2	-02 51 22	16.0	0.5 x 0.2'
MAC 0033-0251A			16.5	0.3 x 0.2'
MAC 0033-0250			16.5	0.3 x 0.2'

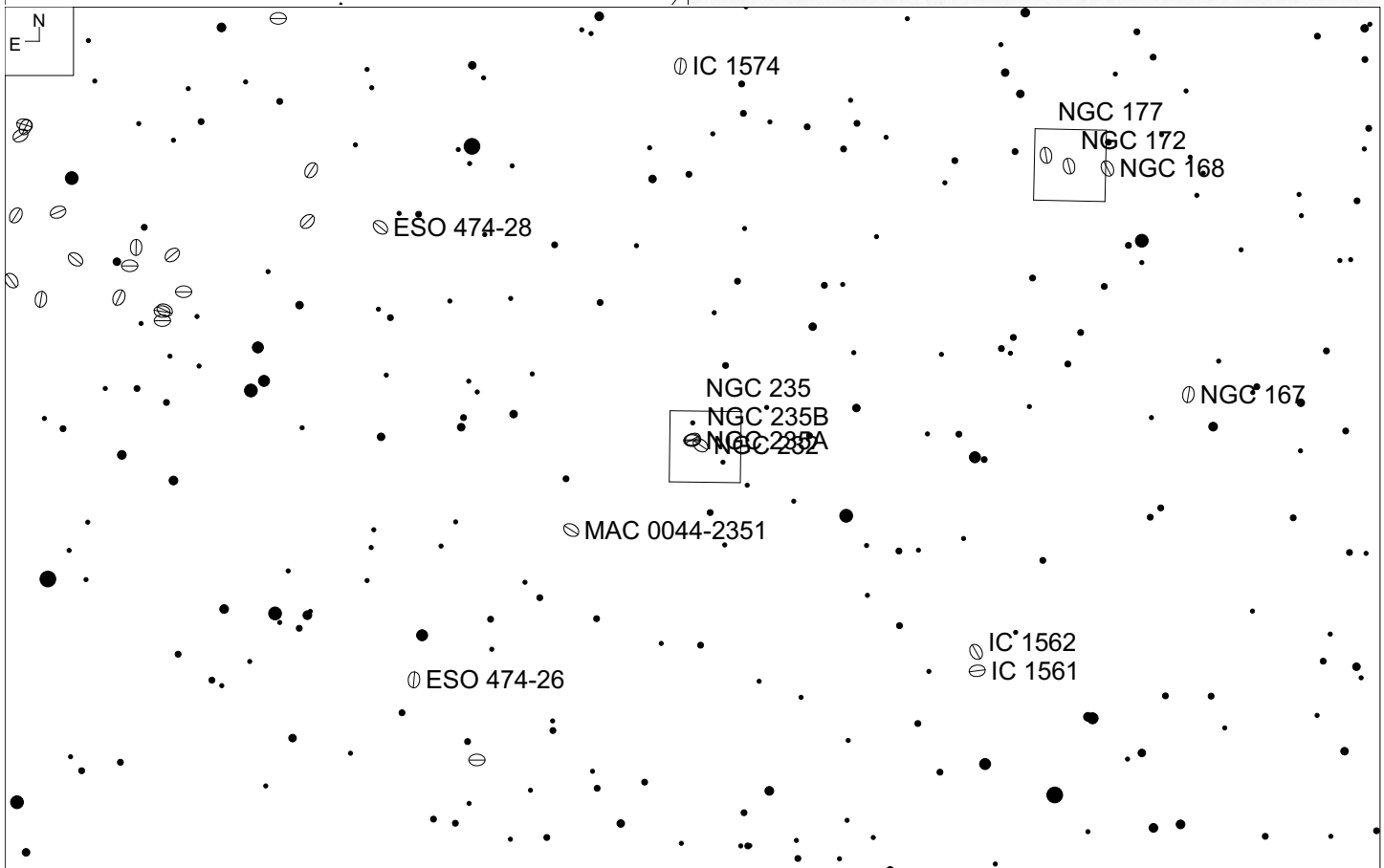
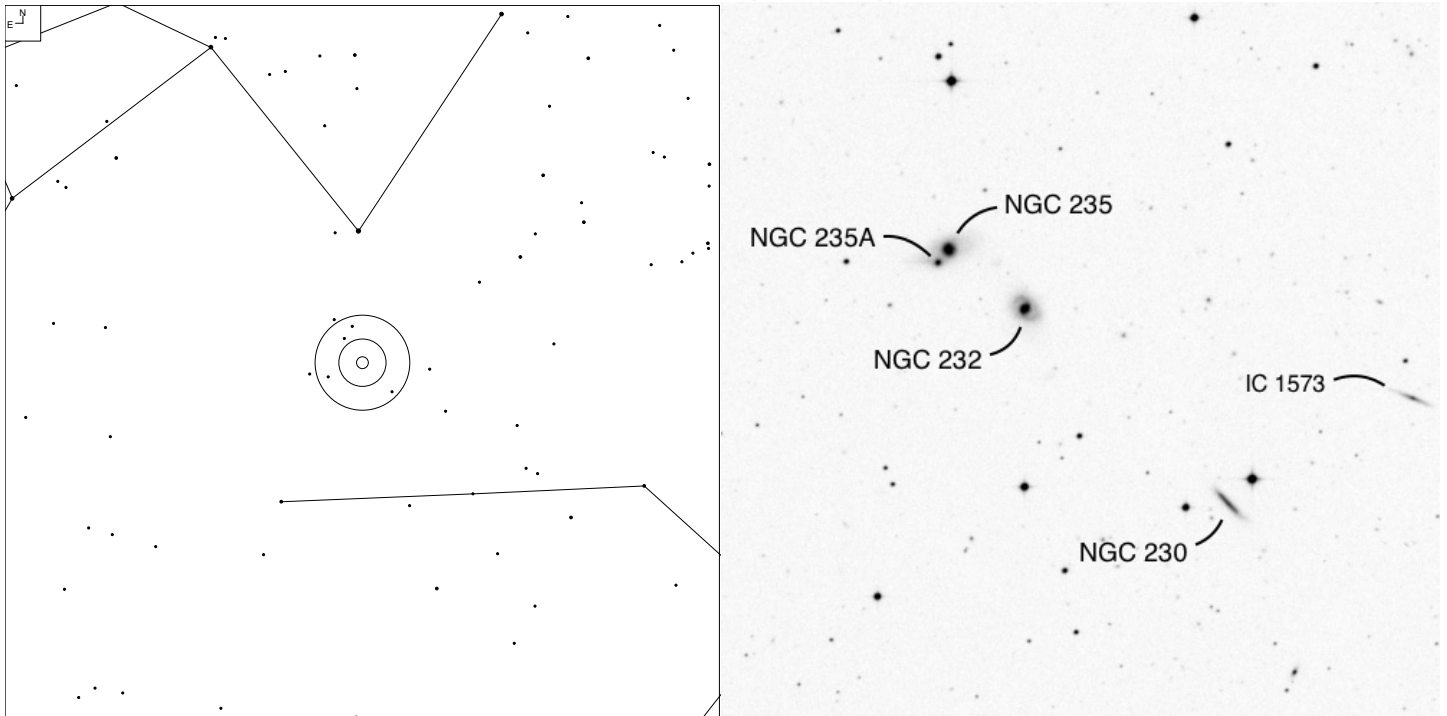
NGC 177 (Cetus)



Object	RA	Dec	Mag	Size
NGC 177	00 37 34.2	-22 32 57	14.1p	2.2 x 0.4'
NGC 172			14.0b	2.0 x 0.3'
NGC 168			14.8p	1.1 x 0.2'

Miles Paul trio

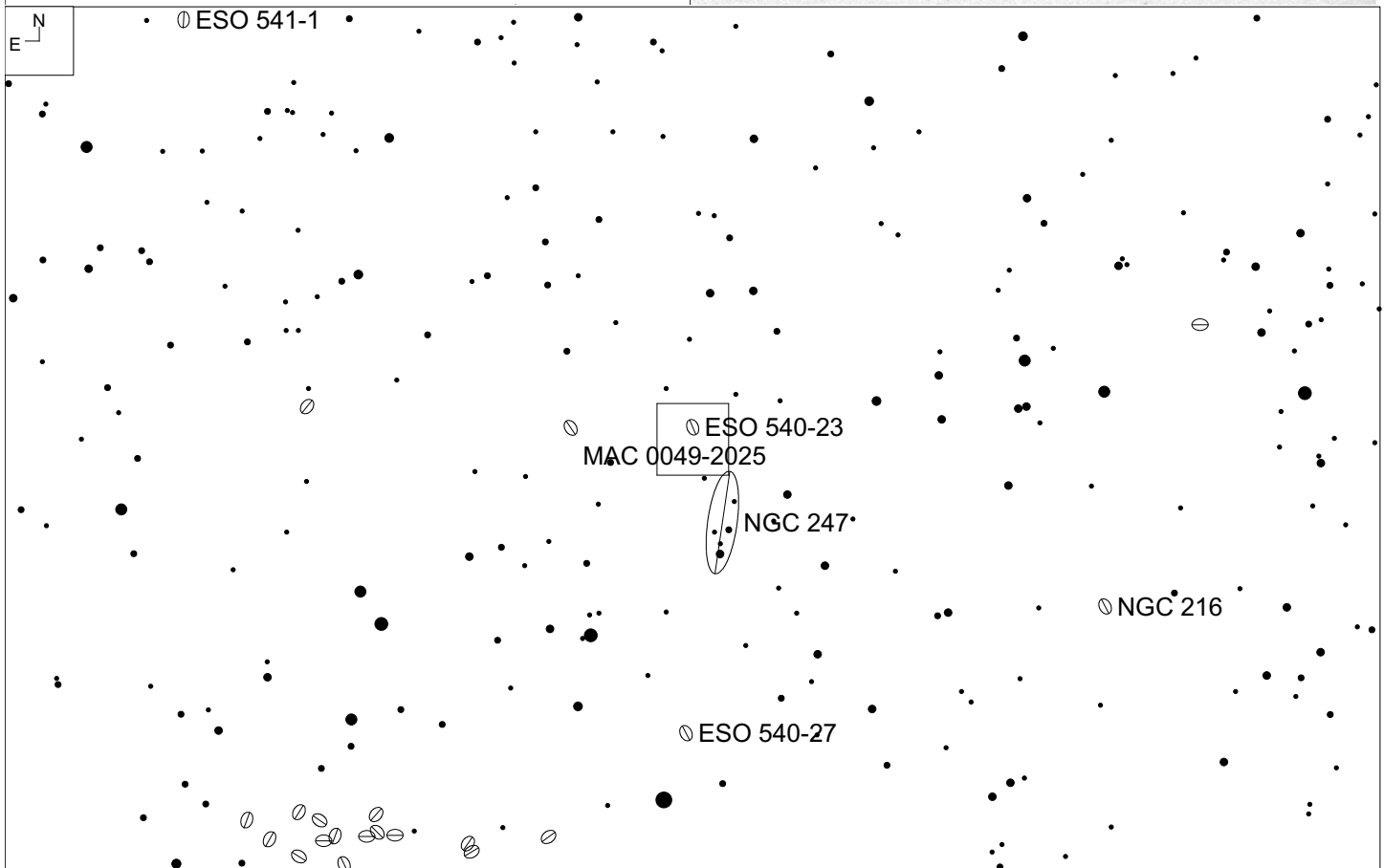
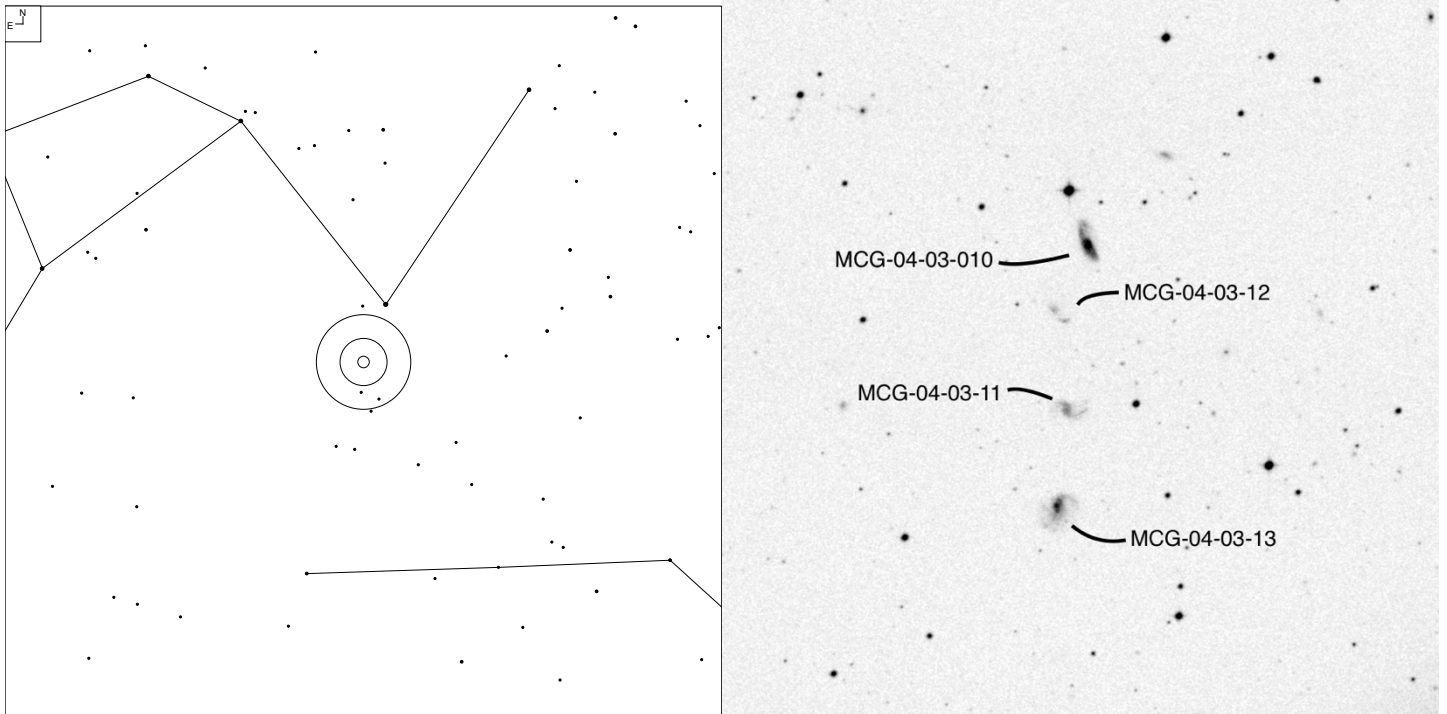
NGC 235 (Cetus)



Object	RA	Dec	Mag	Size
NGC 235	00 42 52.7	-23 32 26	14.1b	1.3 x 0.6'
NGC 232			14.4p	0.9 x 0.7'
NGC 230			15.6p	1.0 x 0.2'
NGC 235A			13.9p	0.3'

Miles Paul and Astronomical League trio

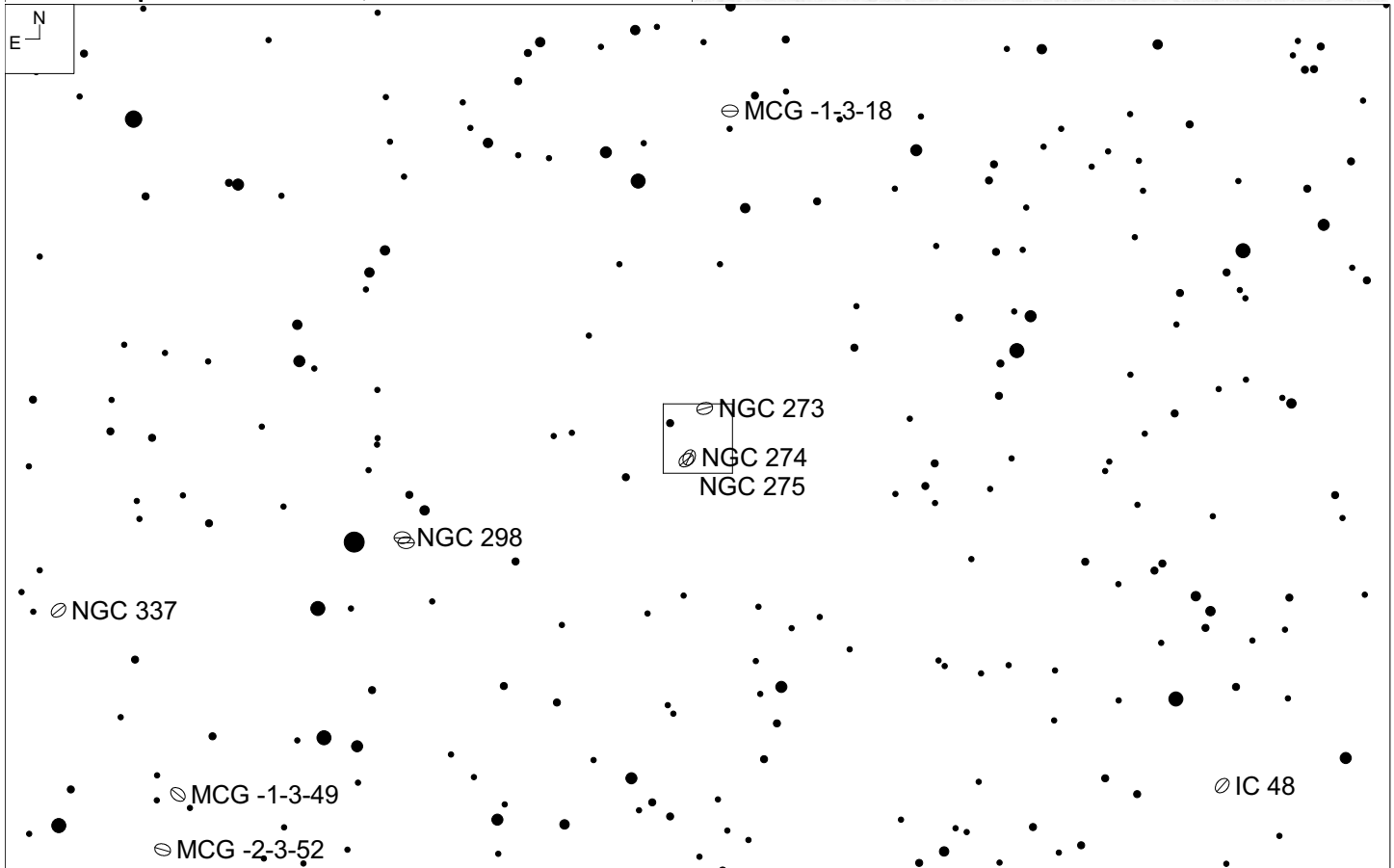
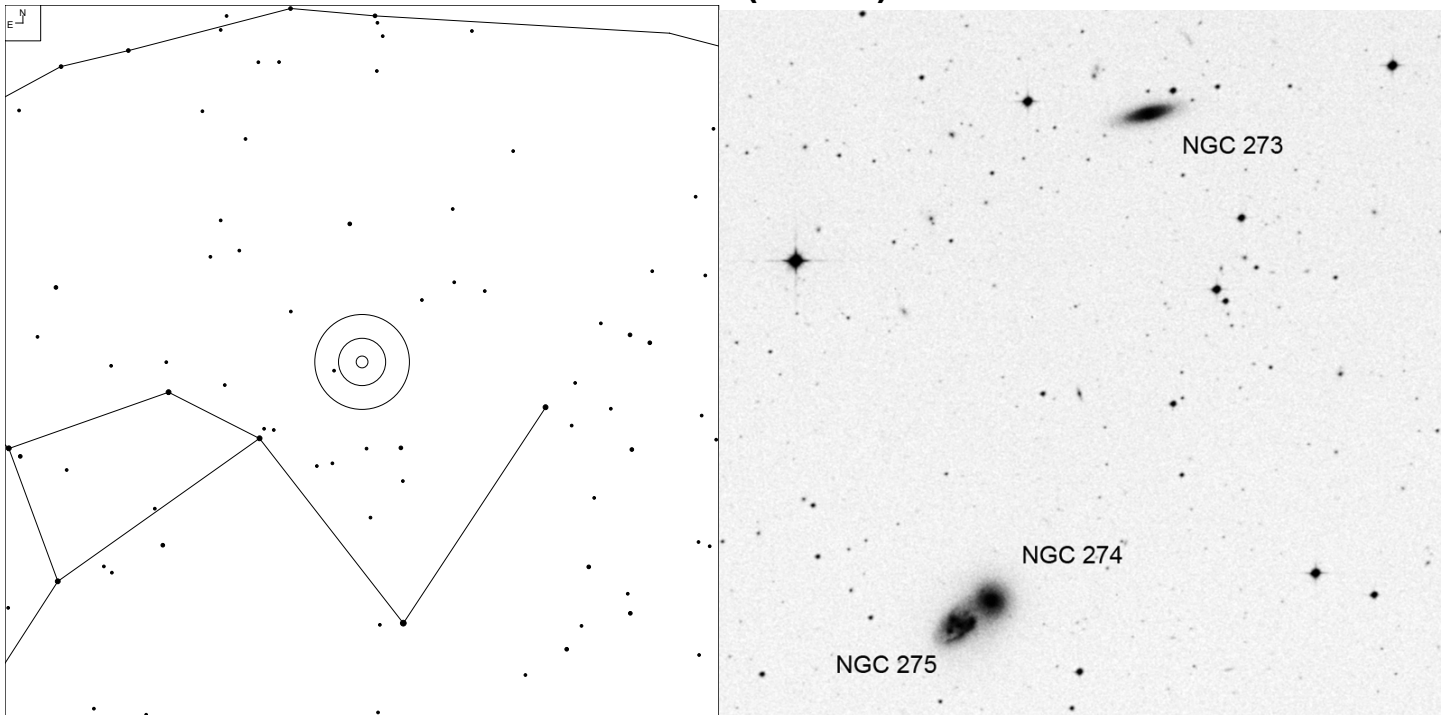
MCG-4-3-10 (Cetus)



Object	RA	Dec	Mag	Size
MCG-4-3-10	00 47 35.1	-20 25 44	14.4p	1.0 x 0.5'
MCG-4-3-11			15.7	0.9 x 0.5'
MCG-4-3-13			14.6p	1.0 x 0.9'

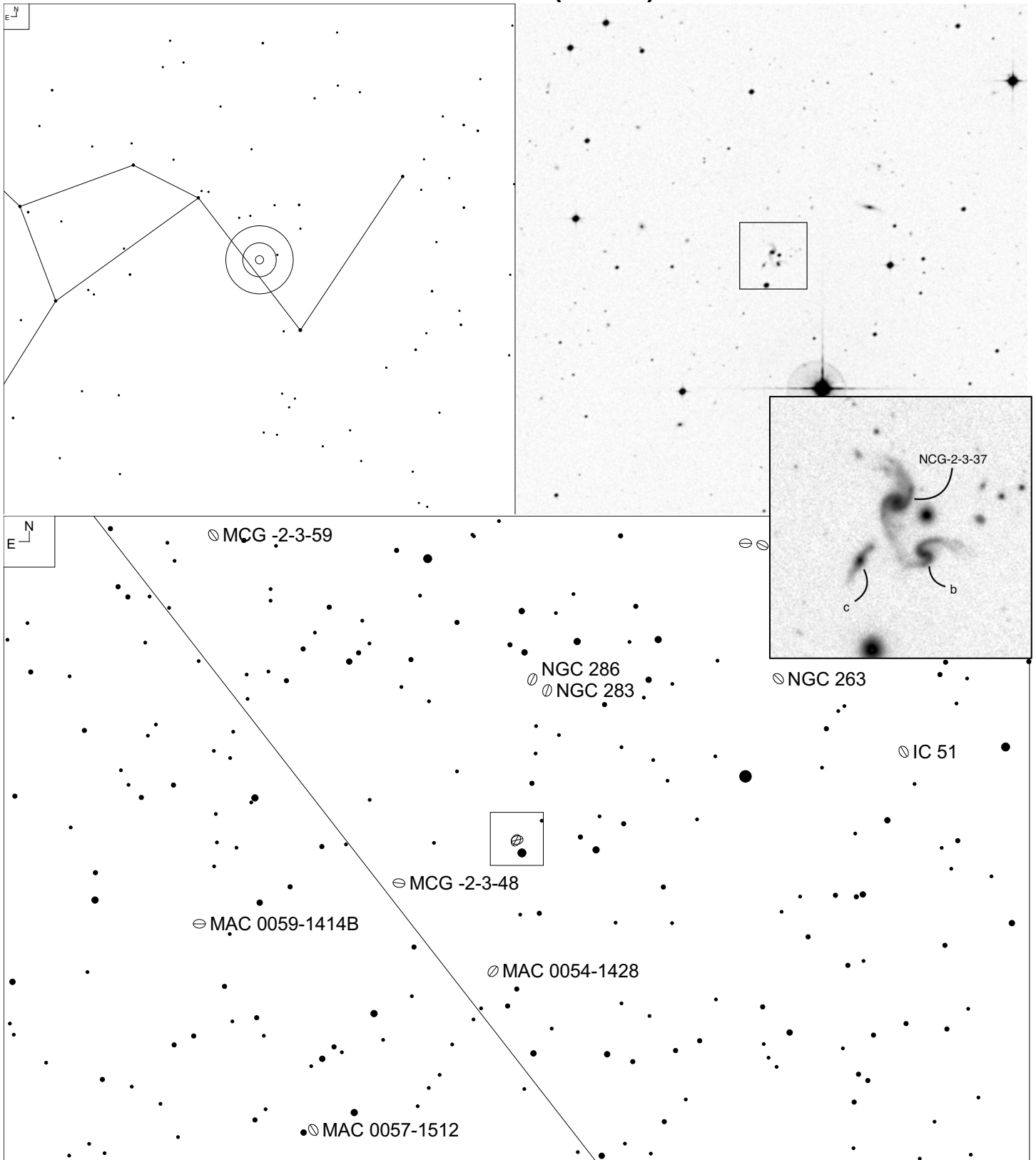
Burbidge's chain

NGC 273 (Cetus)



Object (KDG 7)	RA	Dec	Mag	Size
NGC 273	00 50 54.3	-06 58 26	13.9b	2.2 x 0.6'
NGC 274			12.8p	1.5 x 1.4'
NGC 275			13.2p	1.5 x 1.0'

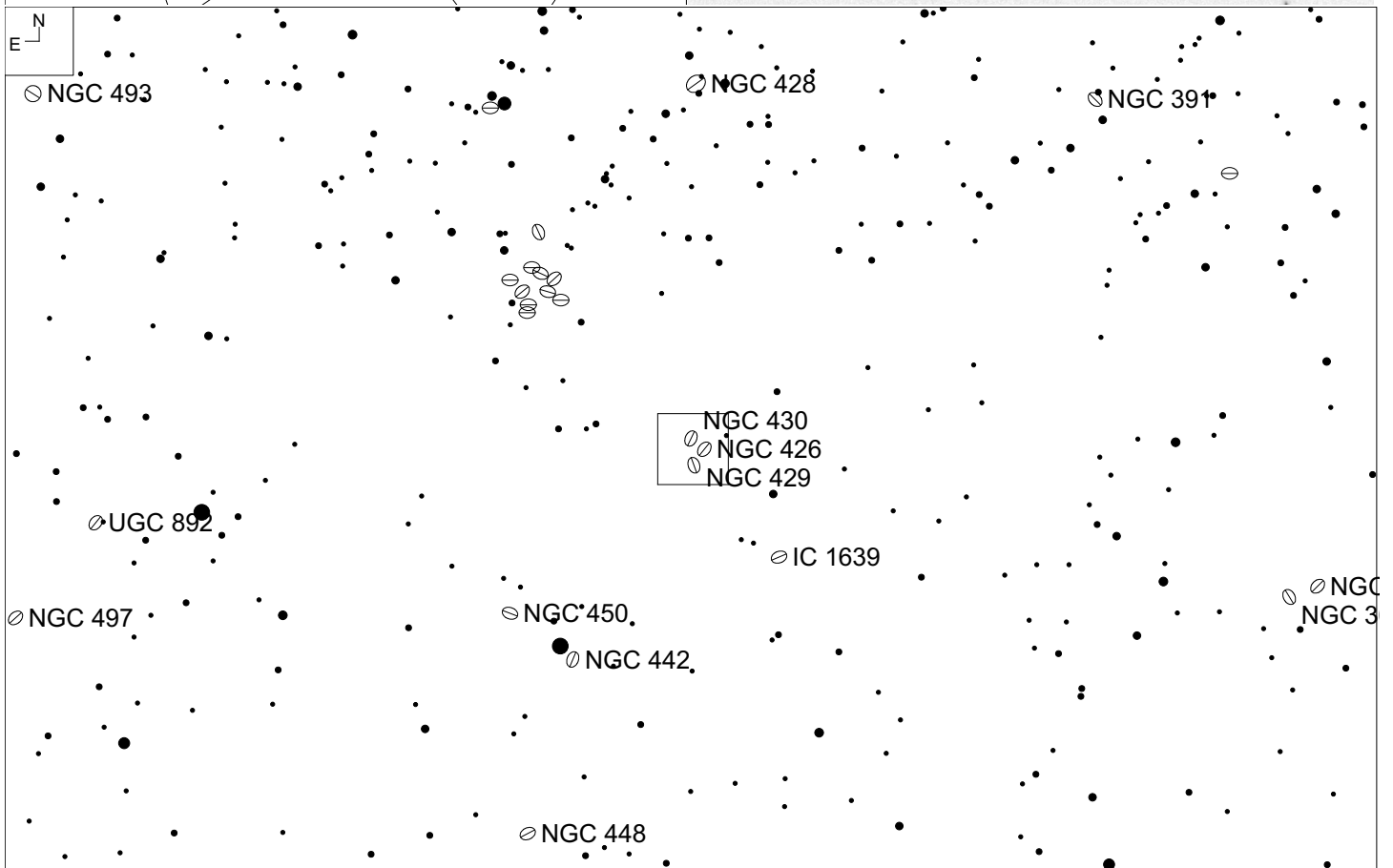
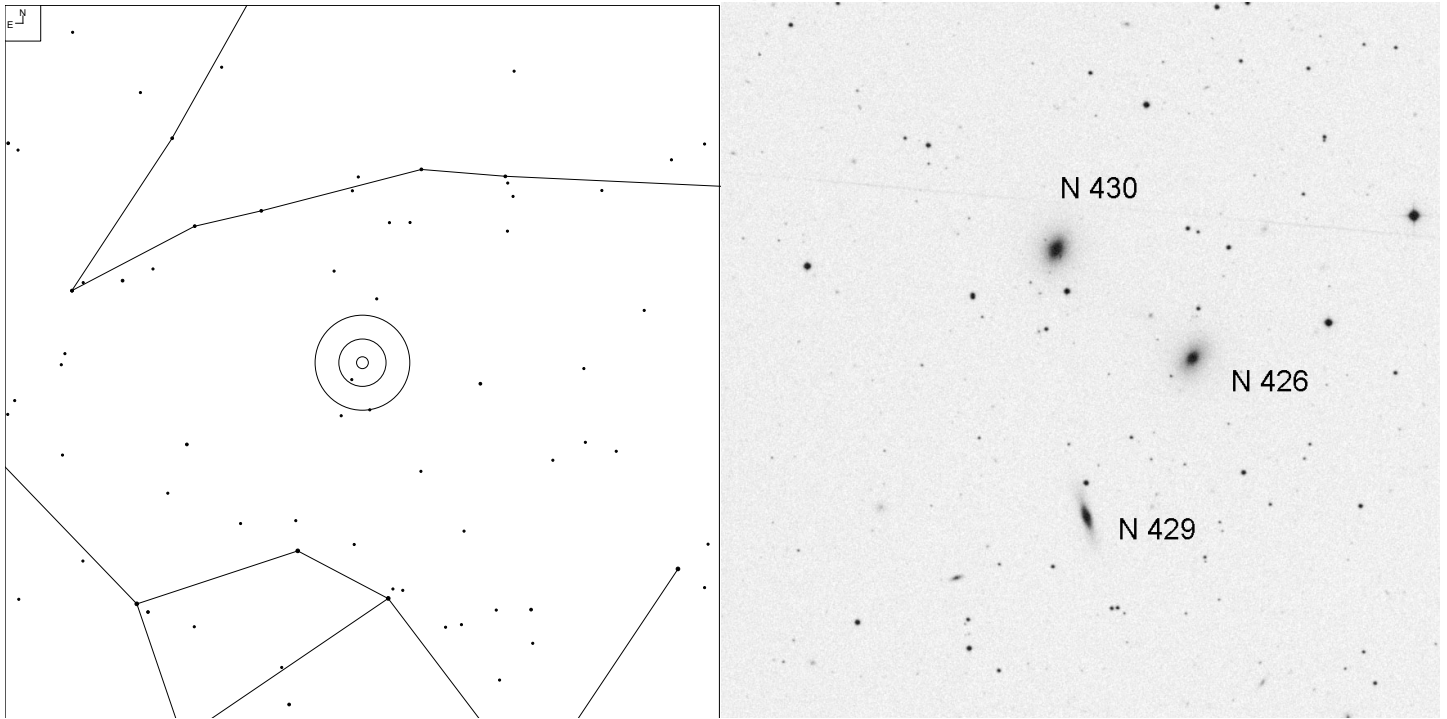
MCG-2-3-37 (Cetus)



Object	RA	Dec	Mag	Size
MCG-2-3-37	00 53 48.4	-13 51 14	15.5	0.8 x 0.3'
Arp 251B			-	0.6 x 0.3'
Arp 251C			-	0.4 x 0.1'

Miles Paul trio

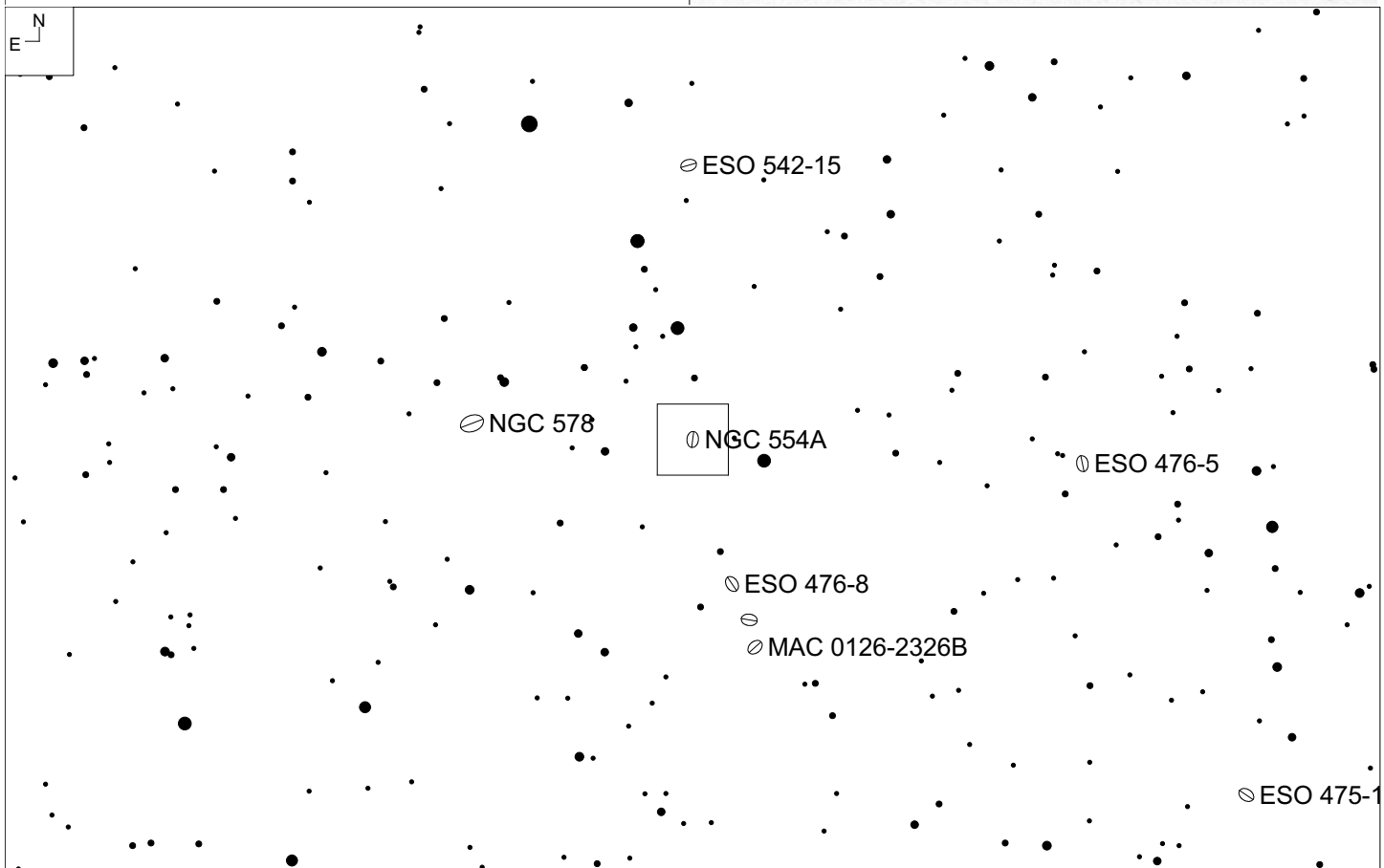
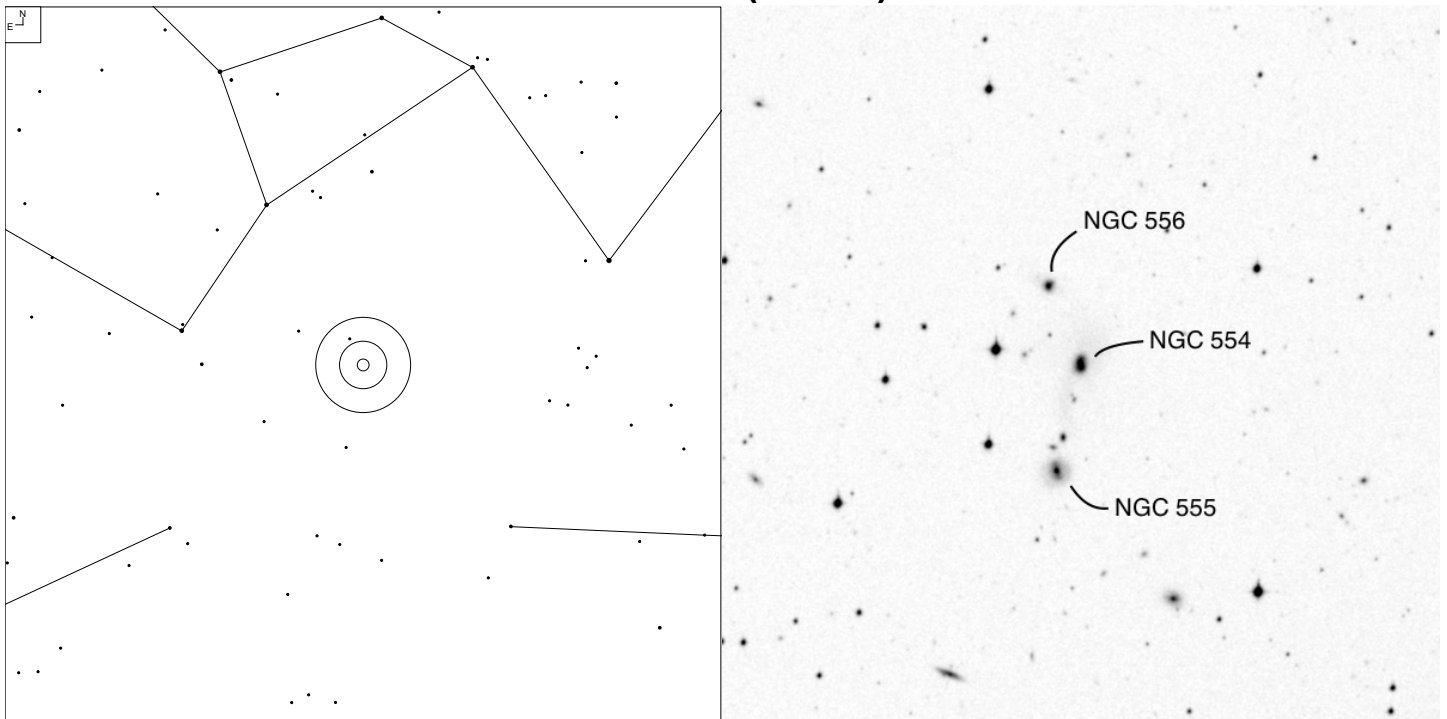
NGC 430 (Cetus)



Object	RA	Dec	Mag	Size
NGC 430	01 12 59.9	-00 15 07	13.5b	1.3 x 1.0'
NGC 429			14.4p	1.3 x 0.2'
NGC 426			13.8b	1.3 x 0.9'

Miles Paul and Astronomical League trio

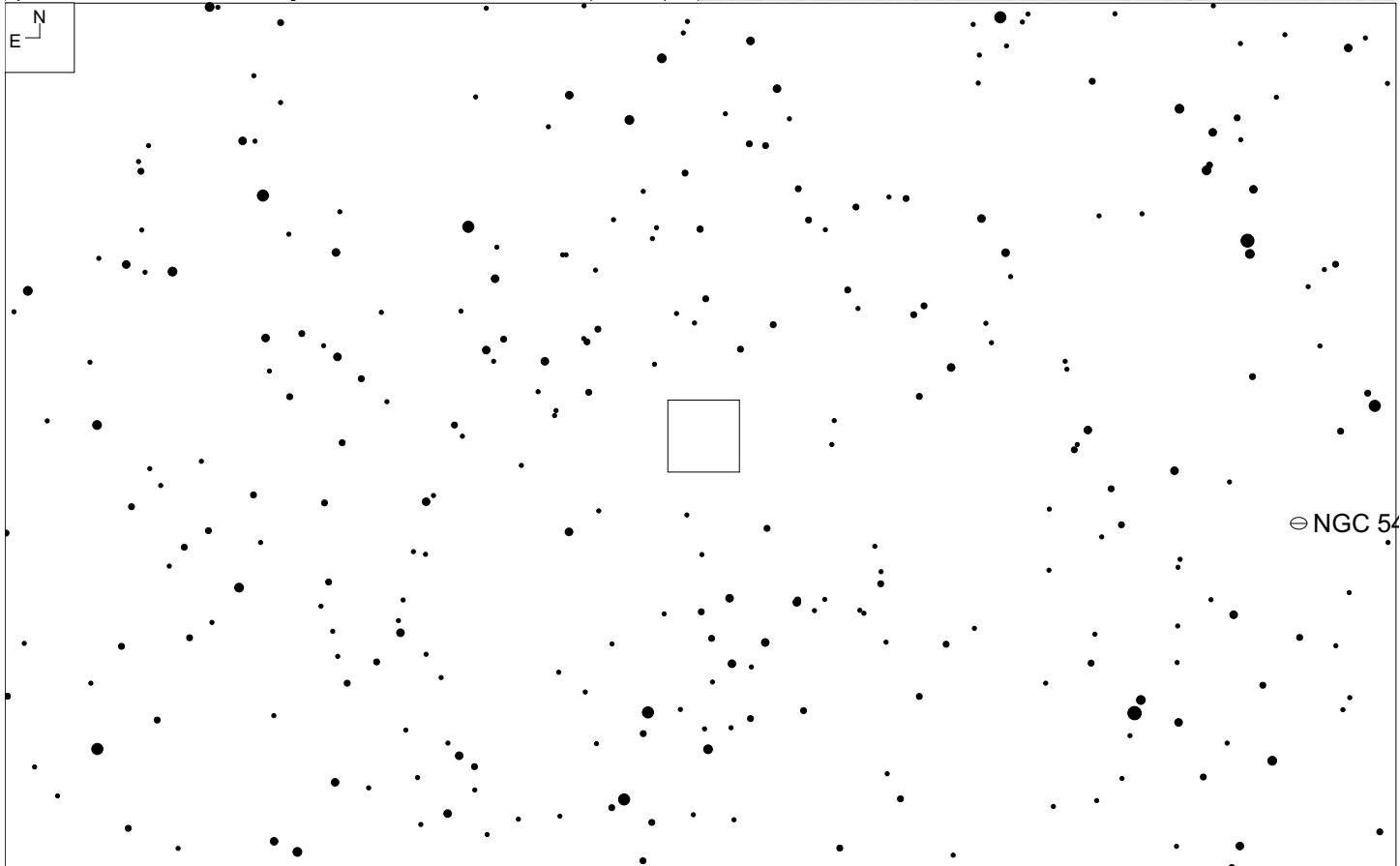
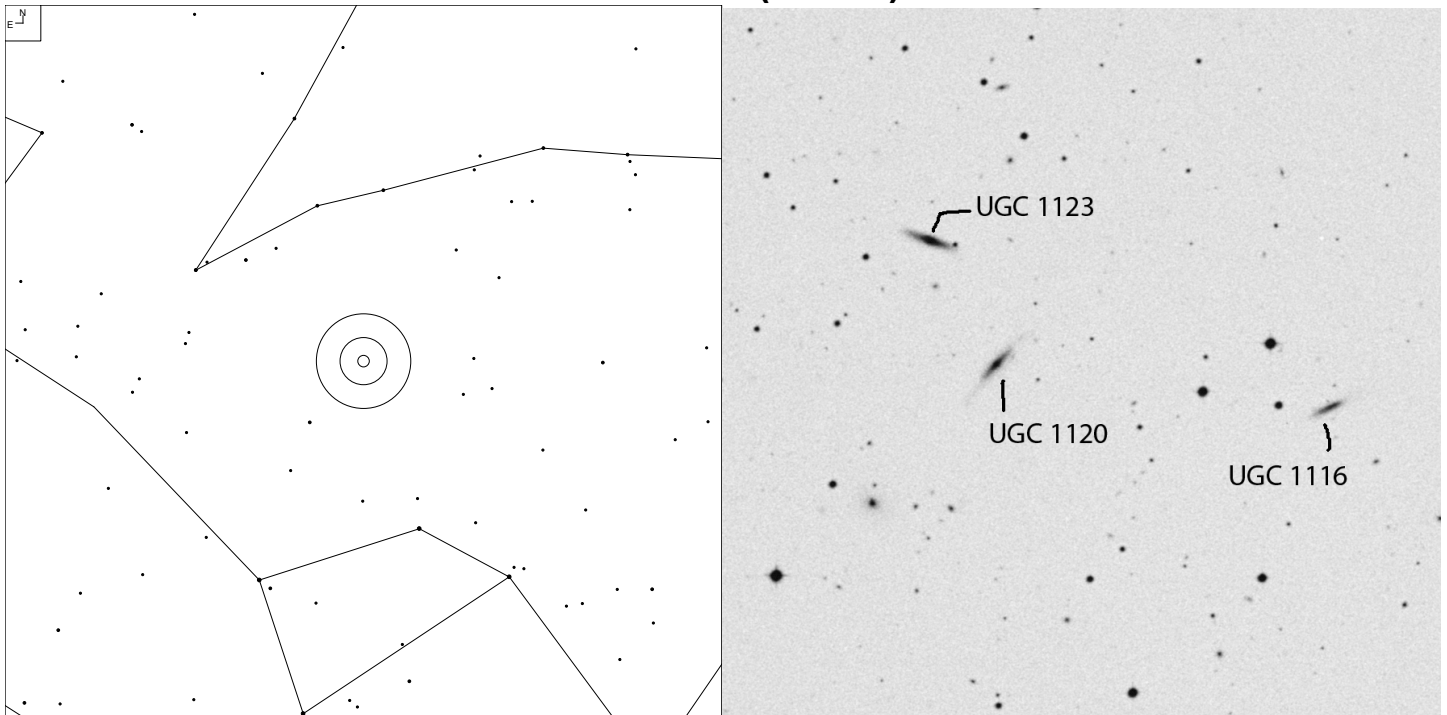
NGC 554 (Cetus)



Object	RA	Dec	Mag	Size
NGC 554	01 27 09.7	-22 43 29	14.8	0.7 x 0.4'
NGC 555			15.1p	0.7 x 0.6'
NGC 556			15.4p	0.3 x 0.3'

Miles Paul and Astronomical League trio

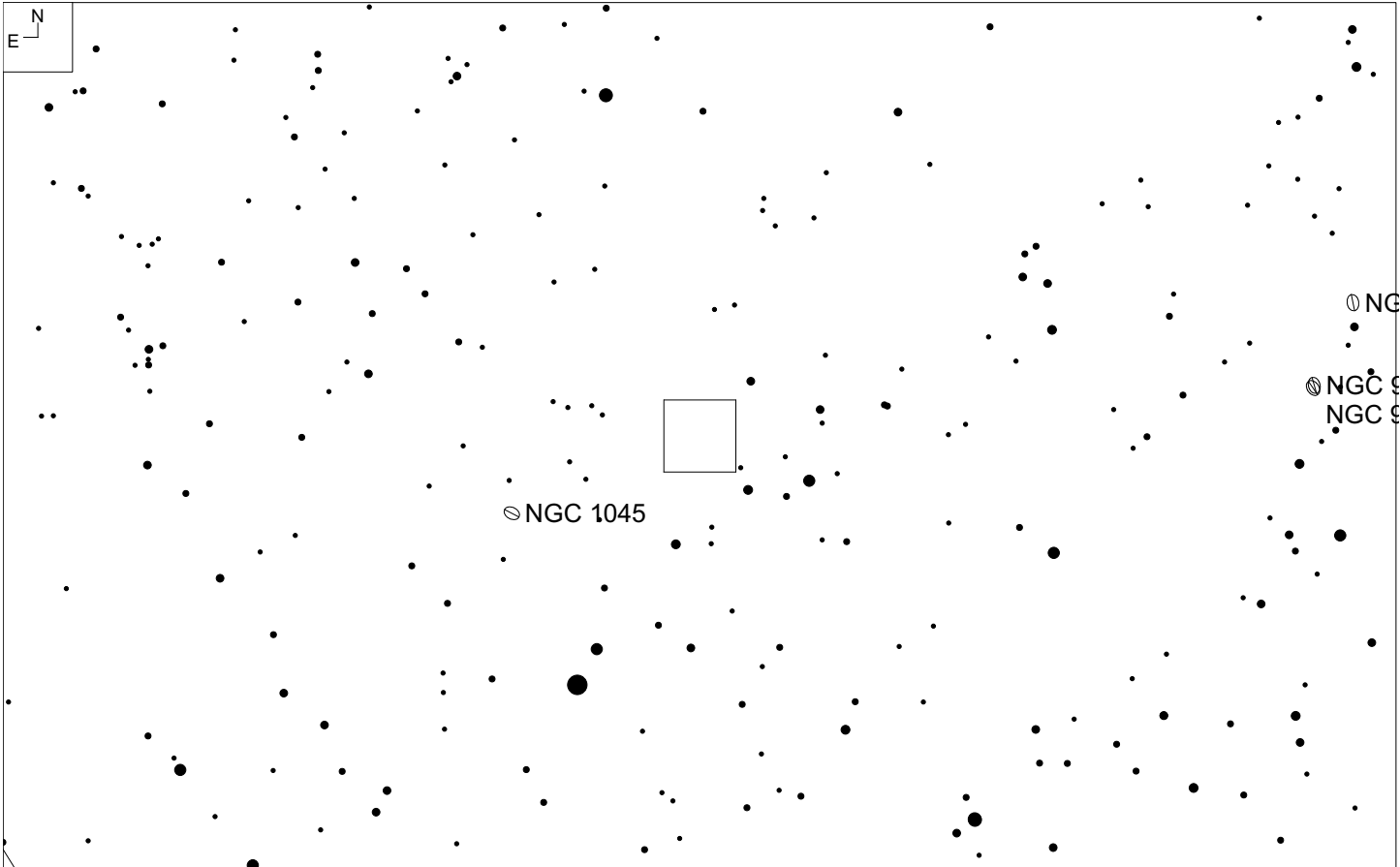
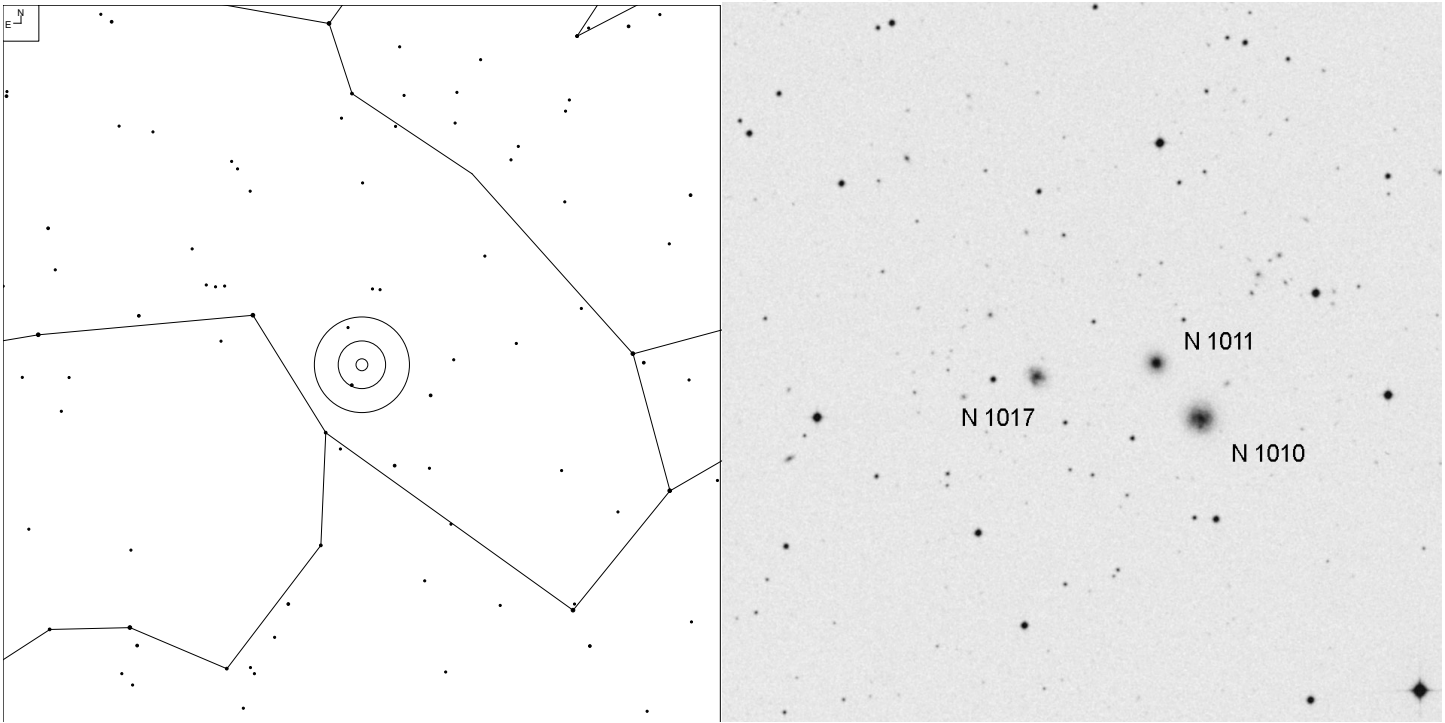
UGC 1116 (Cetus)



Object	RA	Dec	Mag	Size
UGC 1116	01 33 34.5	-01 05 25	15.3p	0.8 x 0.1'
UGC 1120			14.6p	1.8 x 0.4'
UGC 1123			14.4p	1.2 x 0.3'

Miles Paul trio

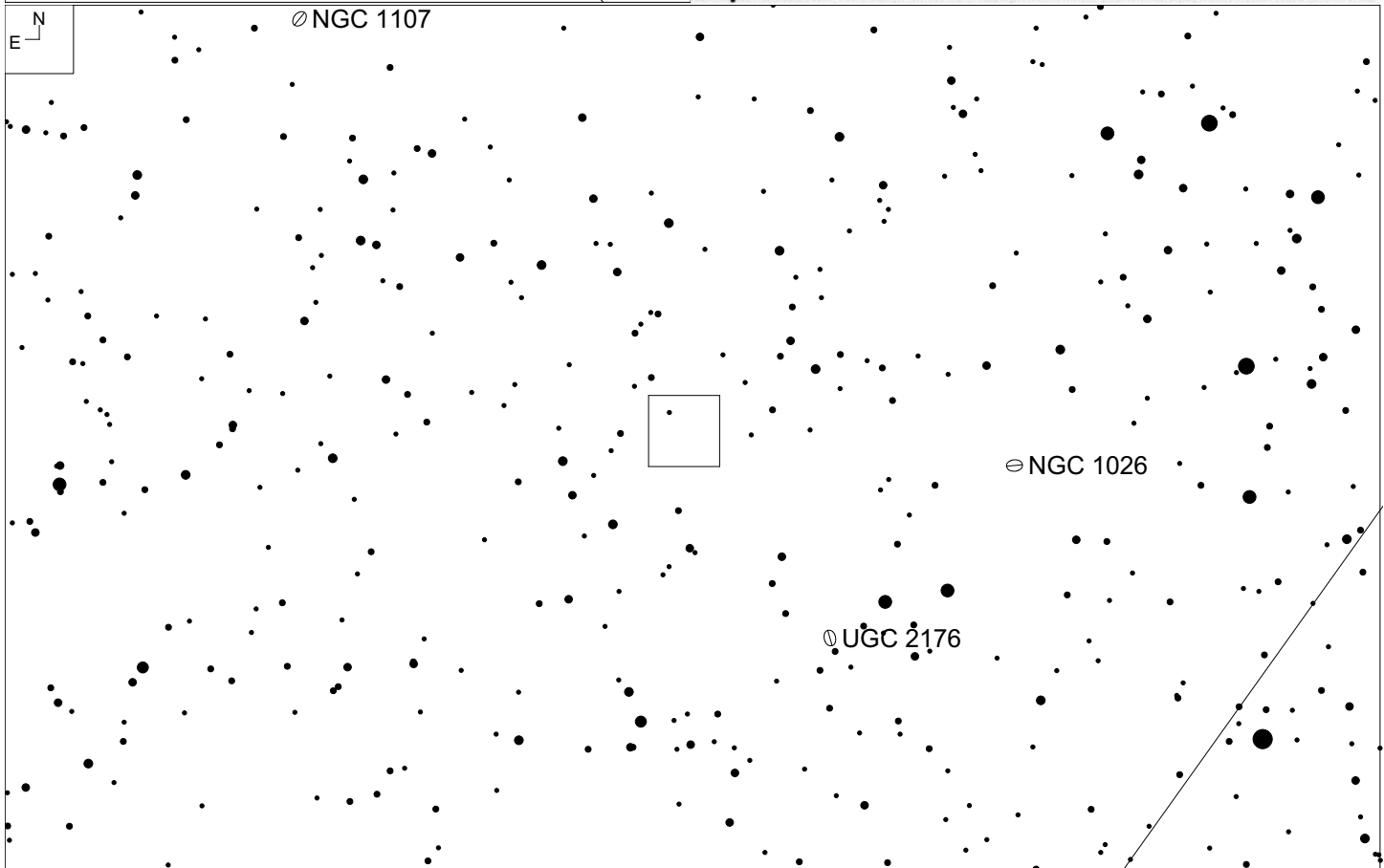
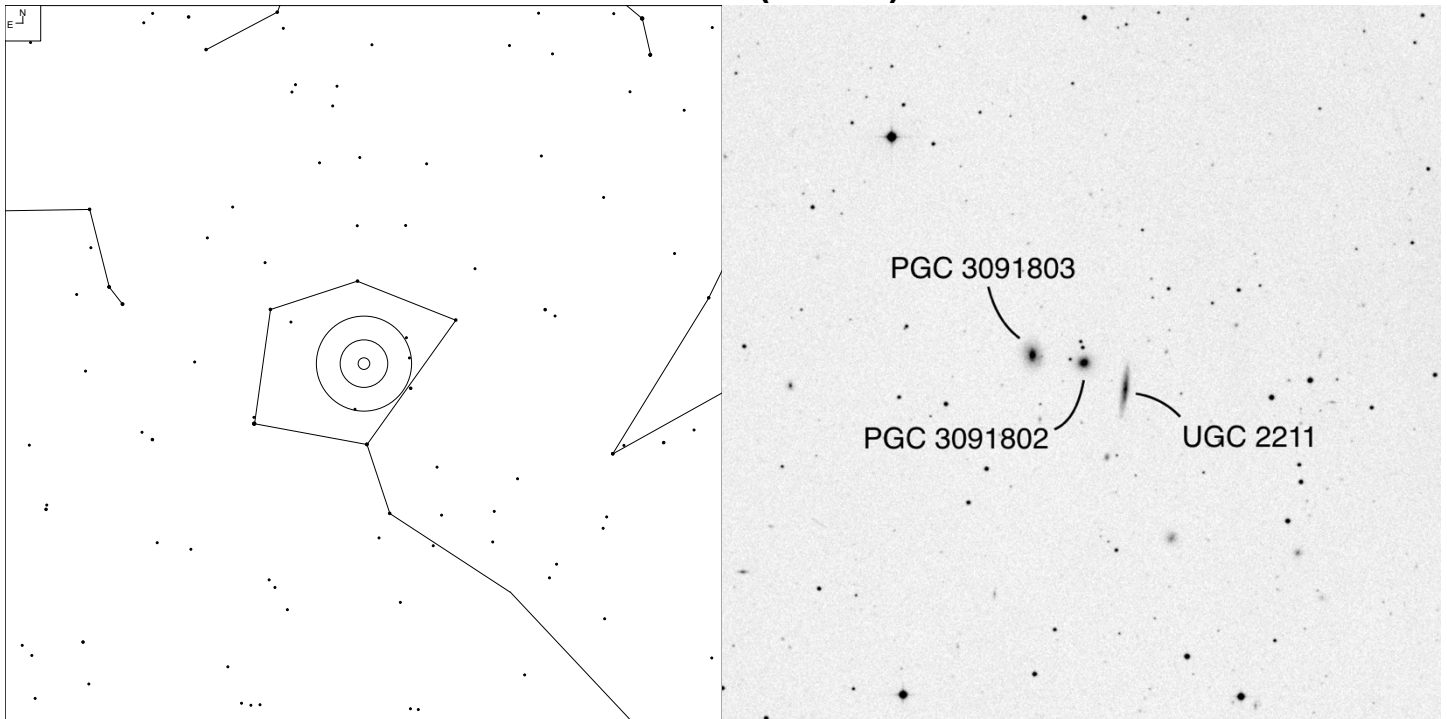
NGC 1017 (Cetus)



Object	RA	Dec	Mag	Size
NGC 1017	02 37 49.7	-11 00 36	14.9	0.7 x 0.6'
NGC 1010			15.2	0.9 x 0.8'
NGC 1011			15.1	0.6 x 0.6'

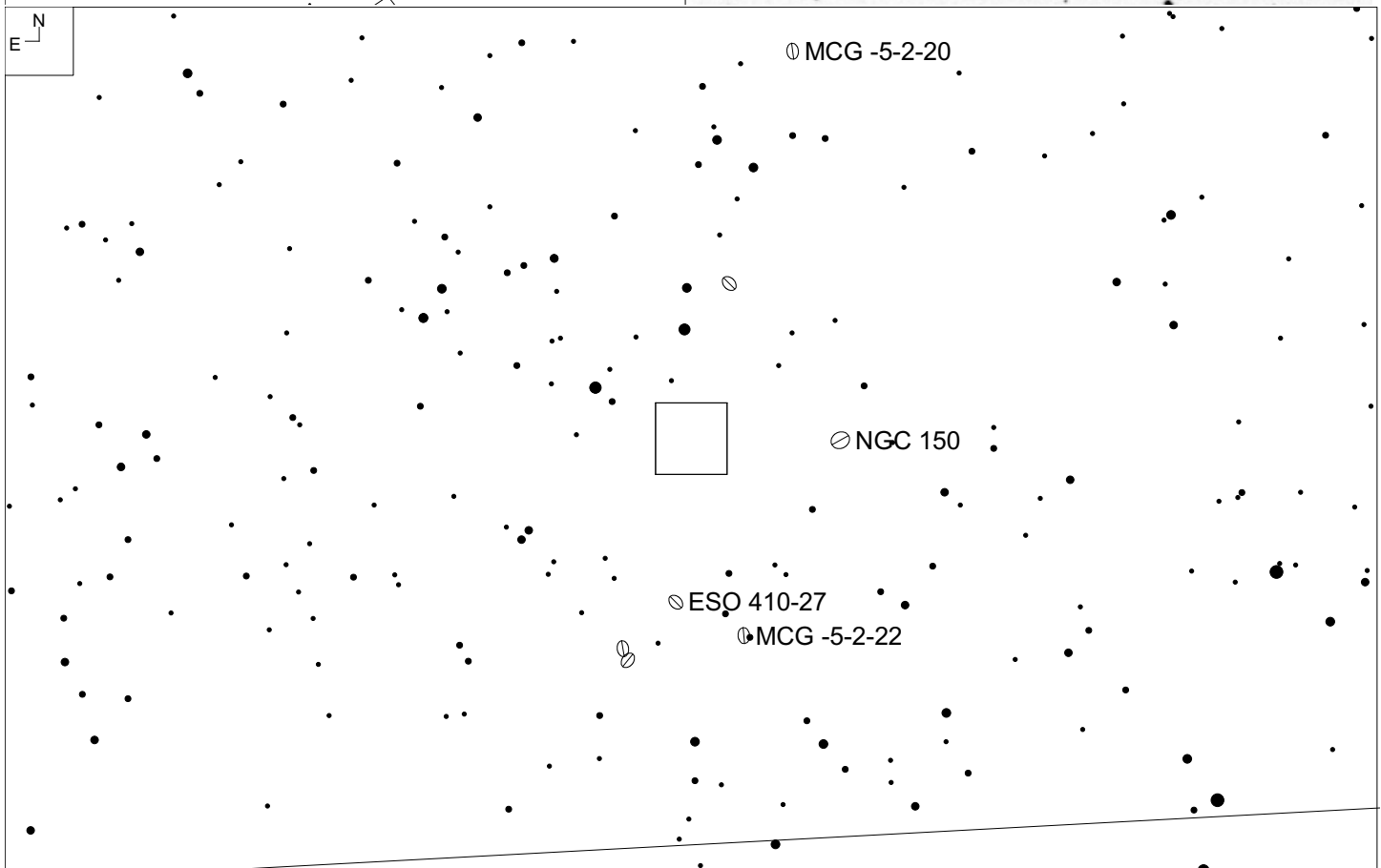
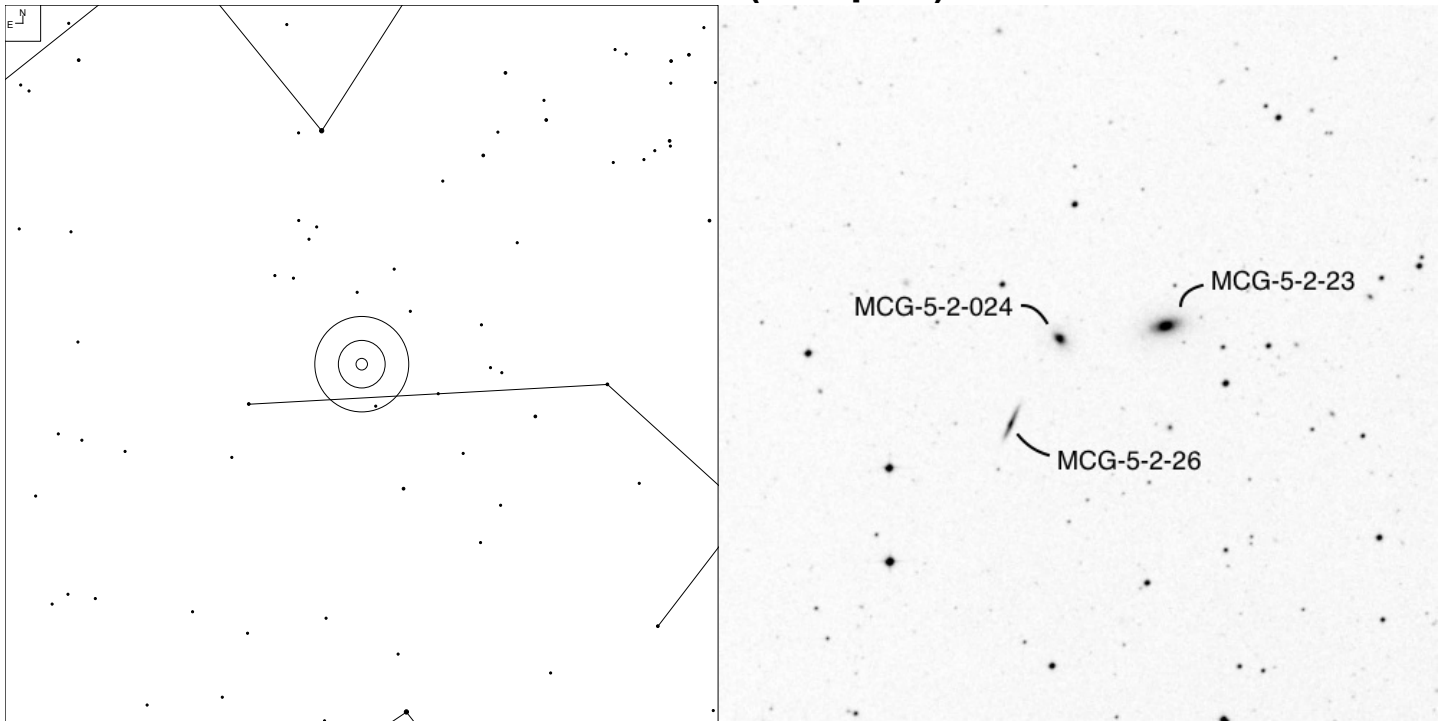
Miles Paul trio

UGC 2211 (Cetus)



Object	RA	Dec	Mag	Size
UGC 2211	02 43 49.1	+06 38 35	15.7g	1.1 x 0.1'
PGC 3091803			15.2g	0.3 x 0.3'
PGC 3091802			15.3g	0.2'

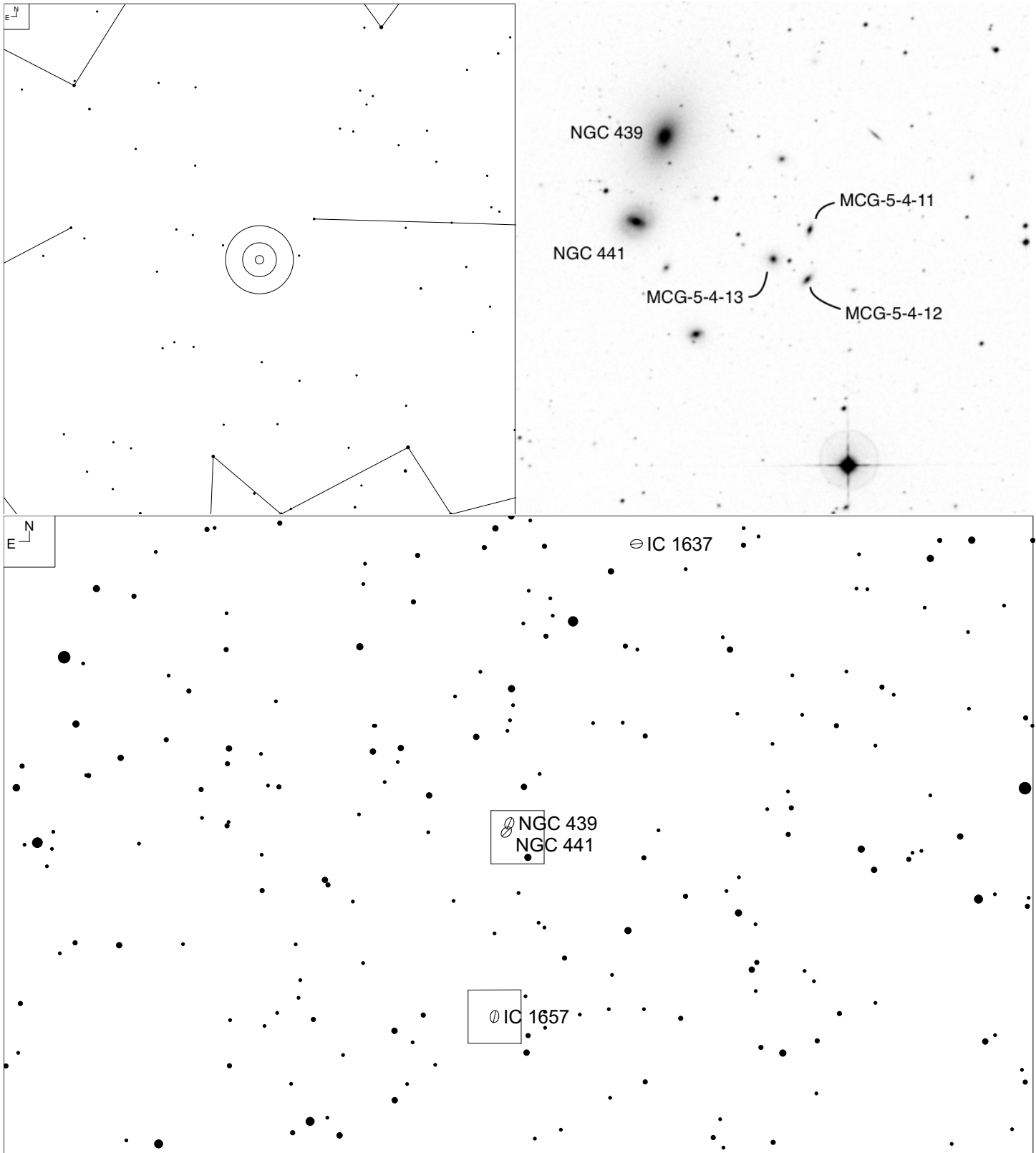
MCG-5-2-23 (Sculptor)



Object	RA	Dec	Mag	Size
MCG-5-2-23	00 36 27.4	-27 47 05	14.6p	1.1 x 0.4'
MCG-5-2-24			15.1p	0.8 x 0.5'
MCG-5-2-26			16.2	1.2 x 0.1'

Miles Paul trio

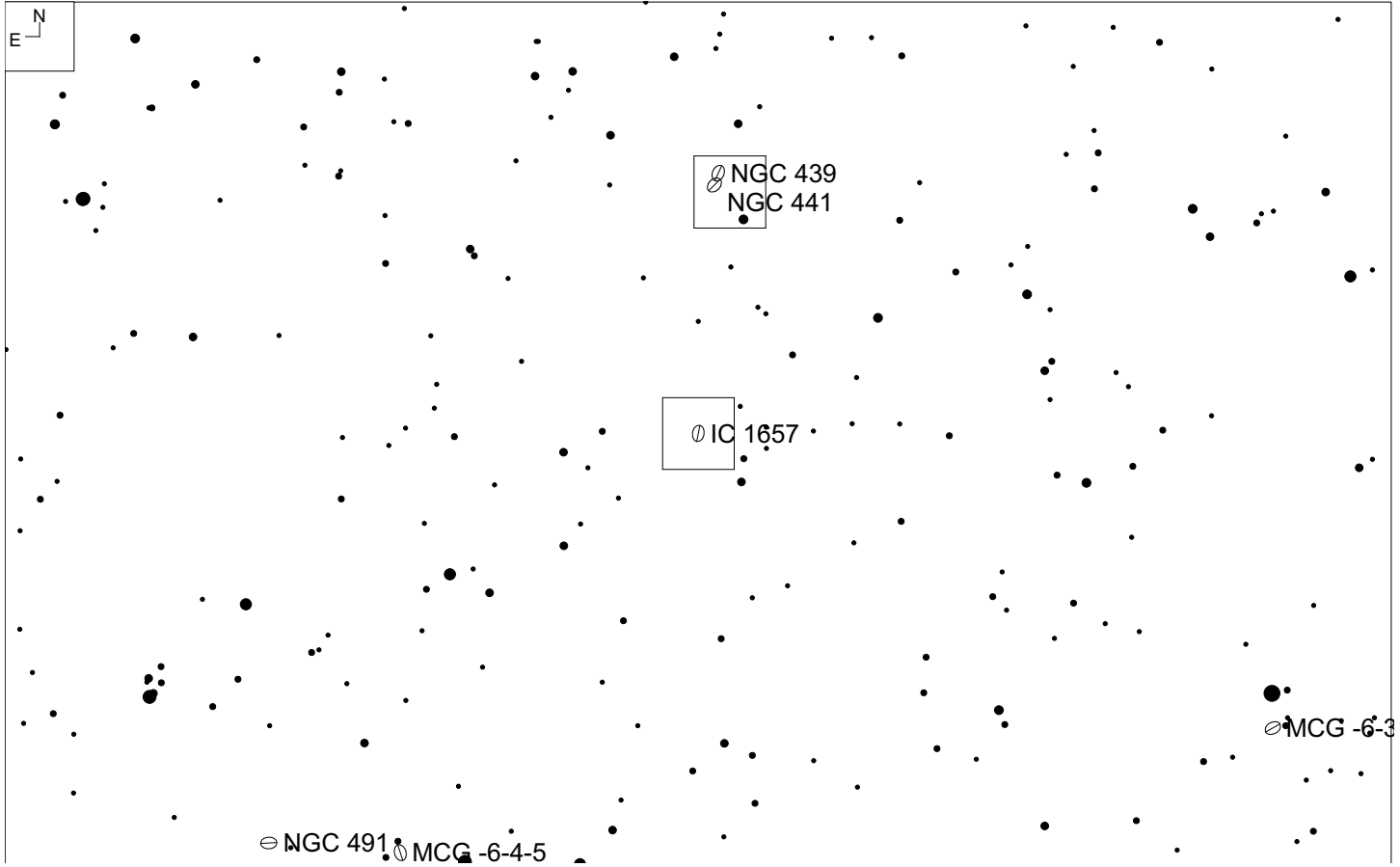
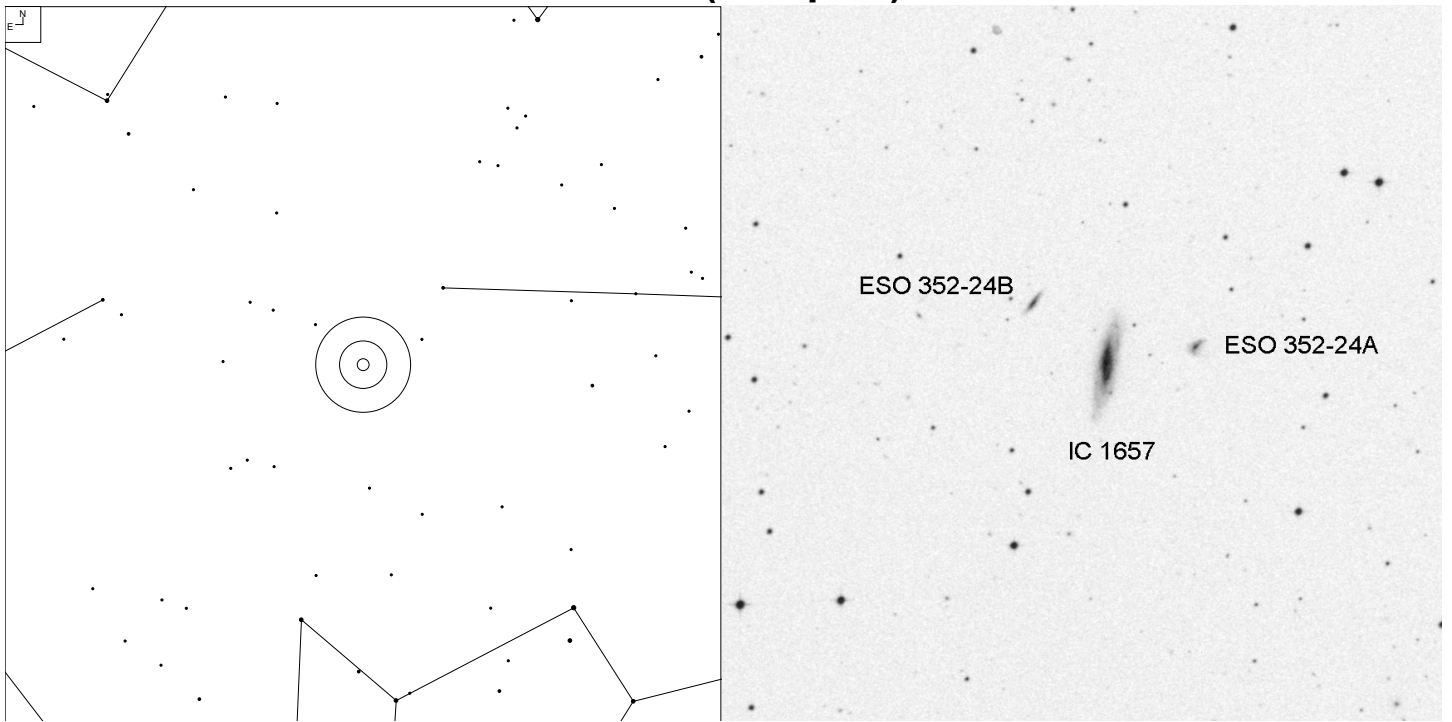
MCG-5-4-12 (Sculptor)



Object	RA	Dec	Mag	Size
MCG-5-4-12	01 13 27.7	-31 49 02	16.0b	0.5 x 0.3'
MCG-5-4-11			16.3	0.4 x 0.2'
MCG-5-4-13			15.9b	0.4 x 0.4'

Miles Paul trio

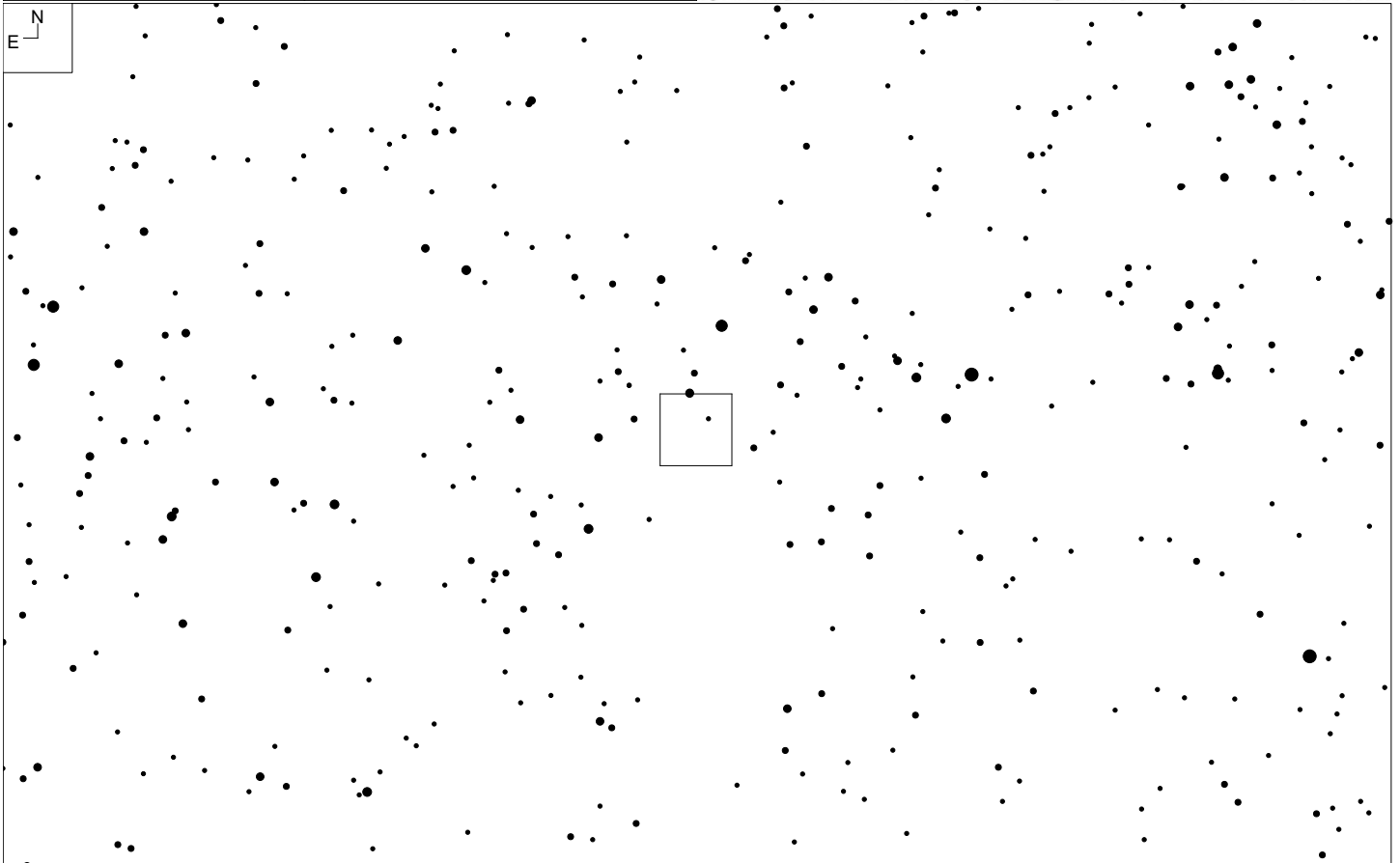
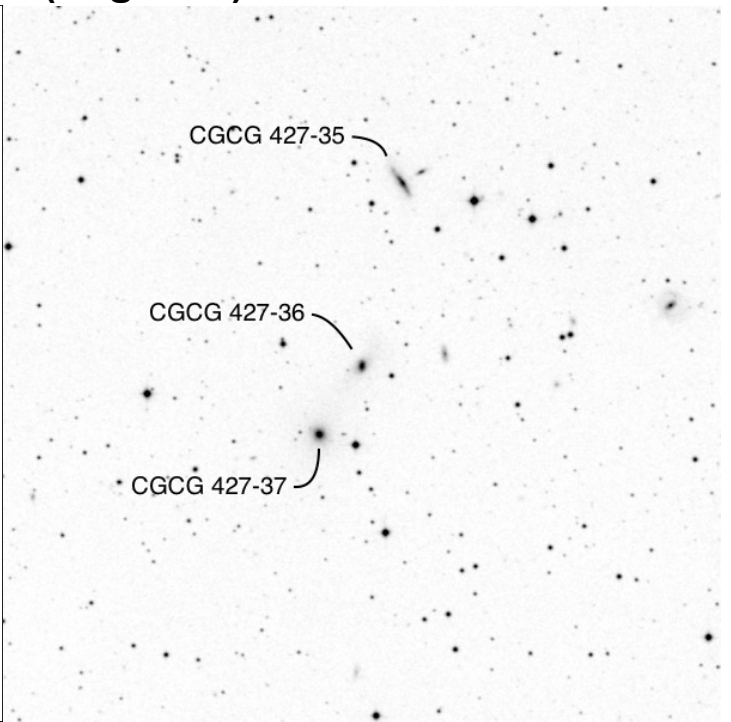
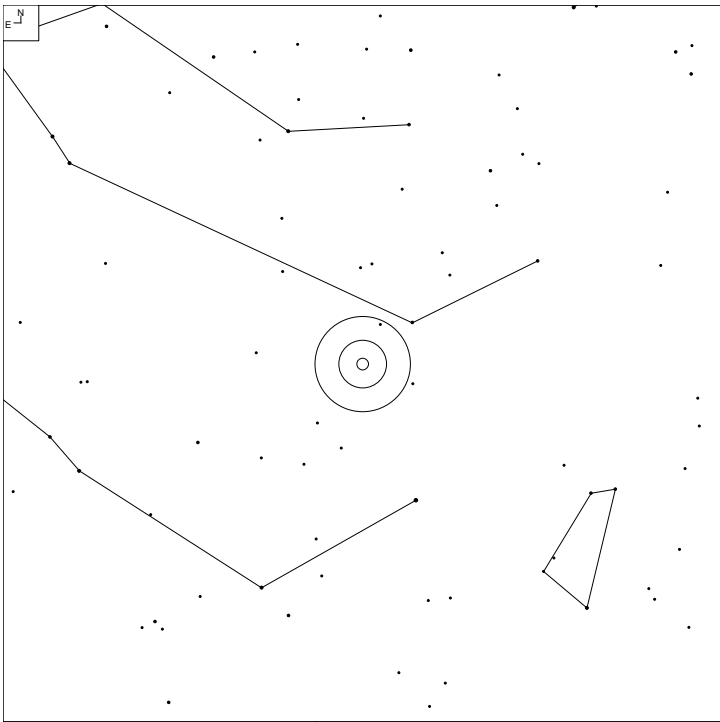
IC 1657 (Sculptor)



Object	RA	Dec	Mag	Size
IC 1657	01 14 07.1	-32 39 08	13.1p	2.3 x 0.5'
ESO 352-24B			16.3	0.7 x 0.2'
ESO 352-24A			15.3	0.6 x 0.3'

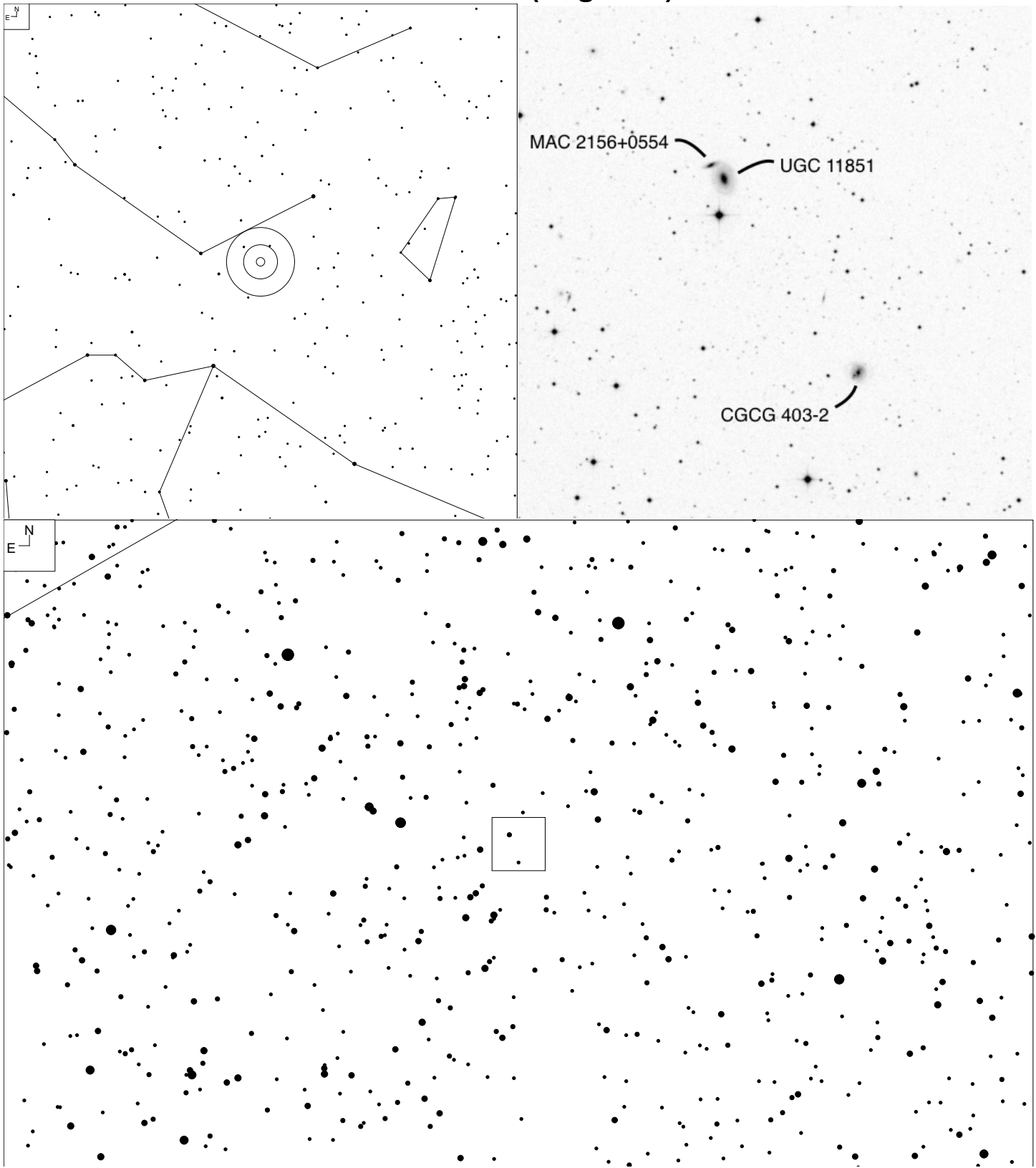
Miles Paul trio

CGCG 427-35 (Pegasus)



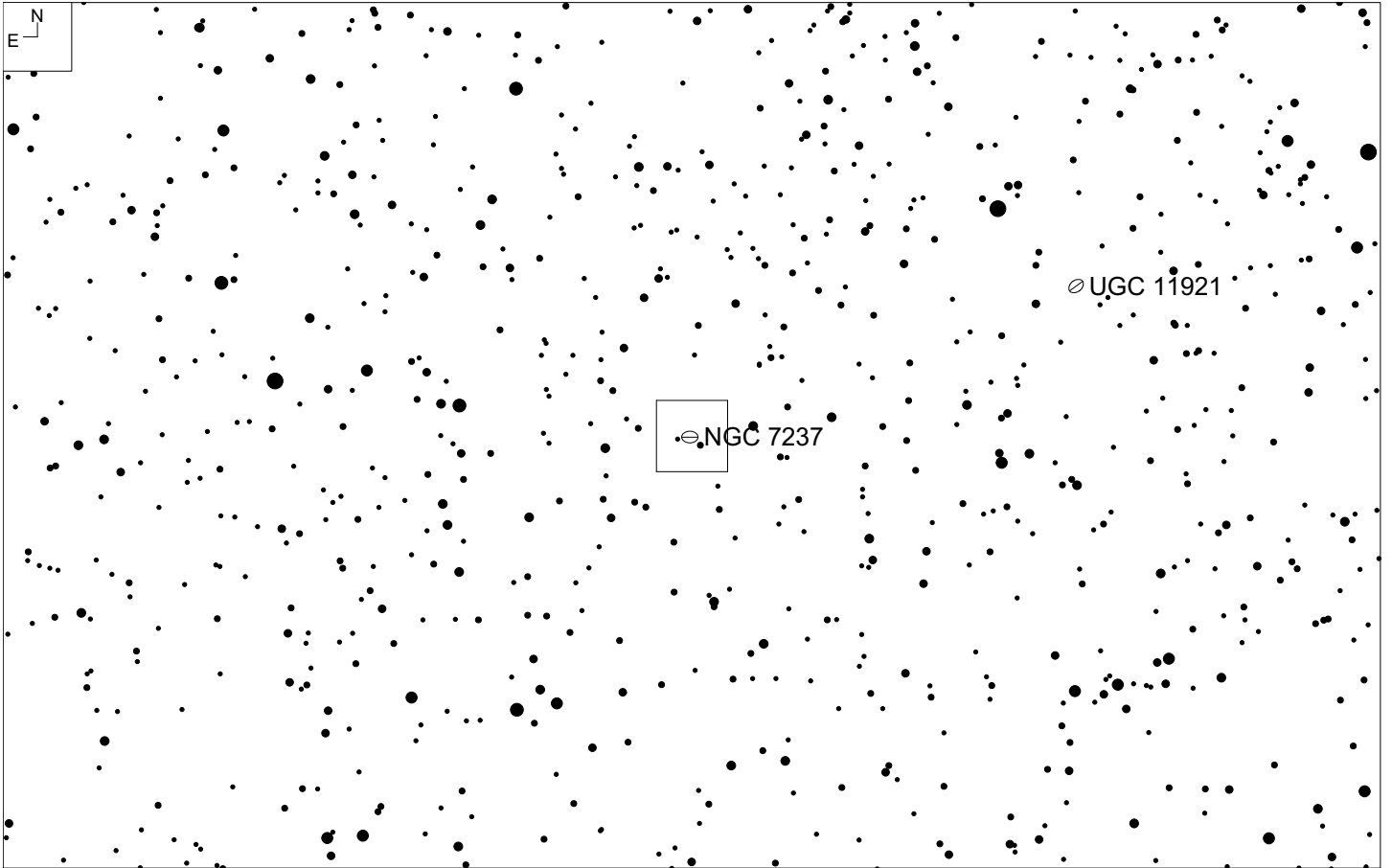
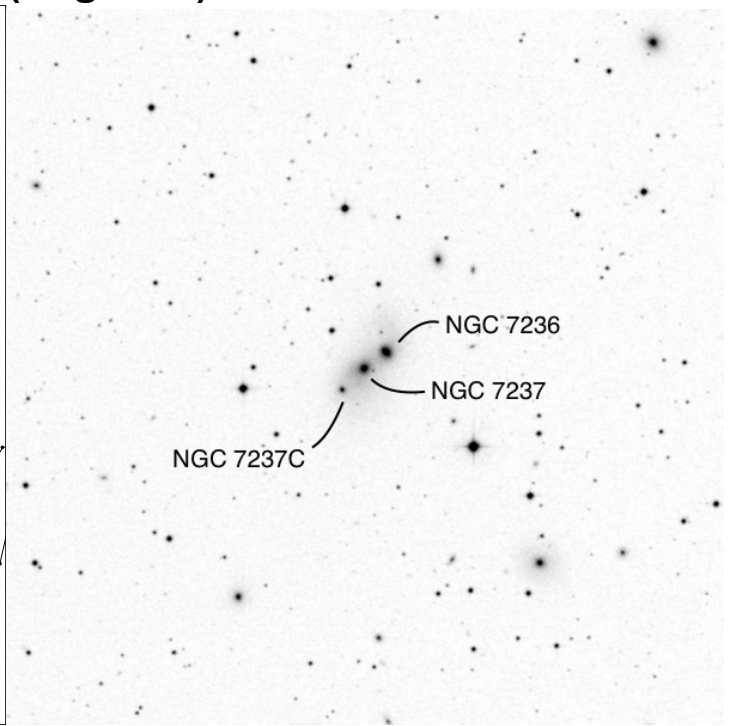
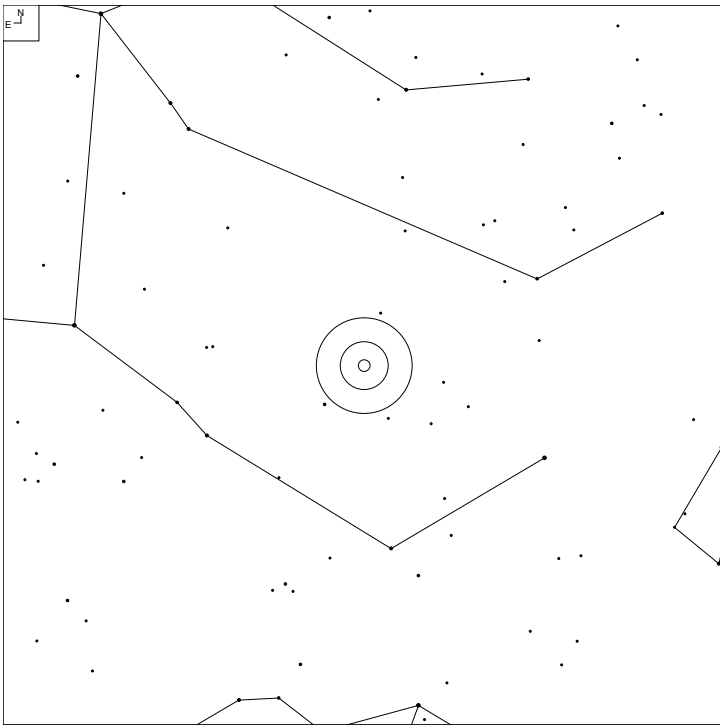
Object	RA	Dec	Mag	Size
CGCG 427-35	21 53 16.0	+15 36 55	15.3	1.1 x 0.3'
CGCG 427-36			15.6	0.5 x 0.4'
CGCG 427-37			15.4	0.5 x 0.5'

UGC 11851 (Pegasus)



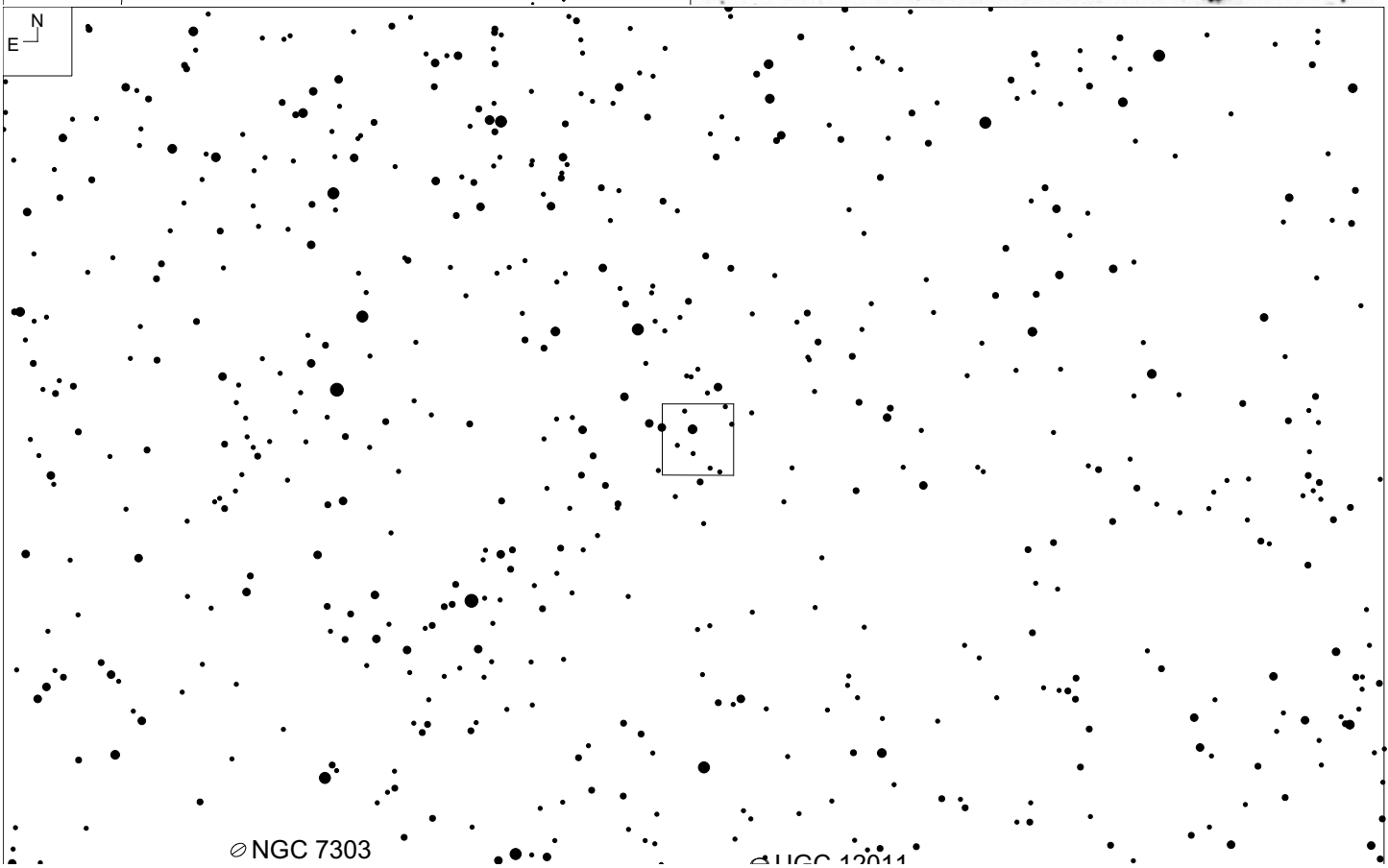
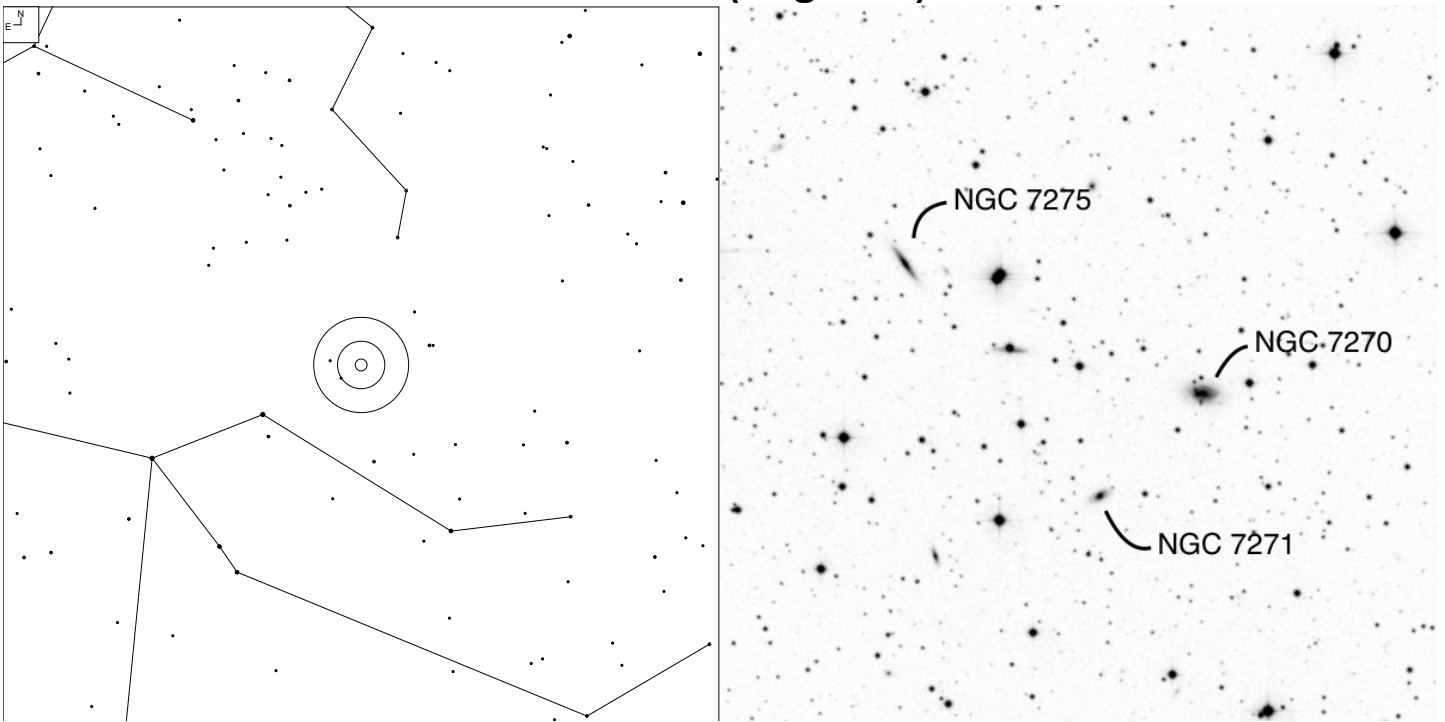
Object (KTG 74)	RA	Dec	Mag	Size
UGC 11851	21 55 59.2	+05 54 08	14.7	1.0 x 0.7'
CGCG 403-2			15.4	0.7 x 0.7'
MAC 2156+0554			15.5	0.5 x 0.1'

NGC 7236 (Pegasus)



Object	RA	Dec	Mag	Size
NGC 7236	22 14 45.0	+13 50 46	14.6b	0.6'
NGC 7237			14.4	0.6'
NGC 7237C			16.9*	0.2'

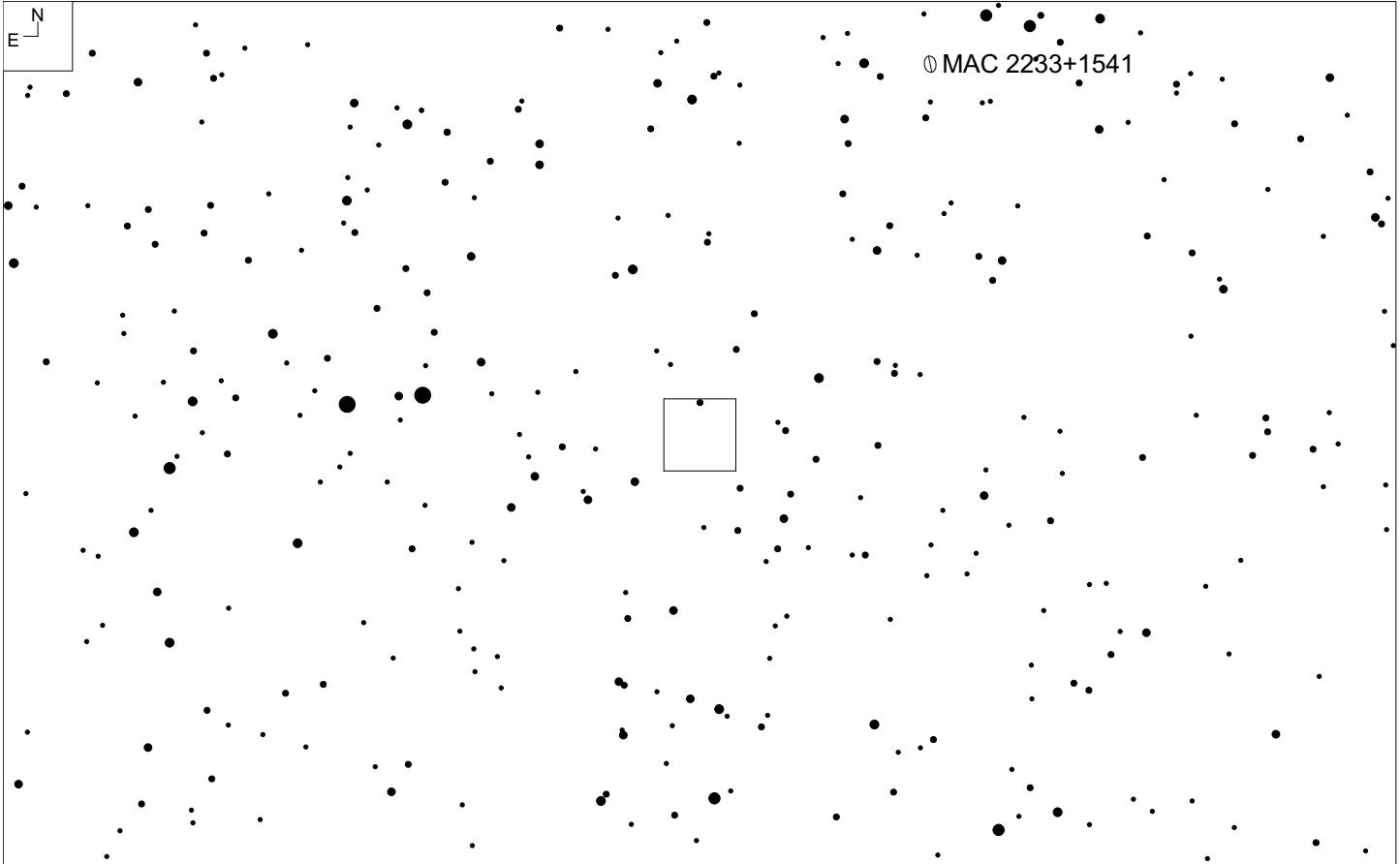
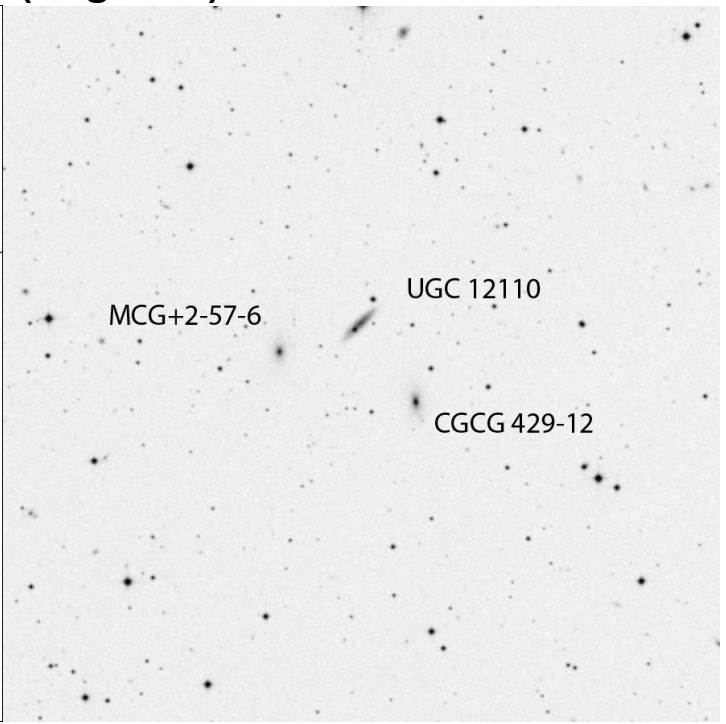
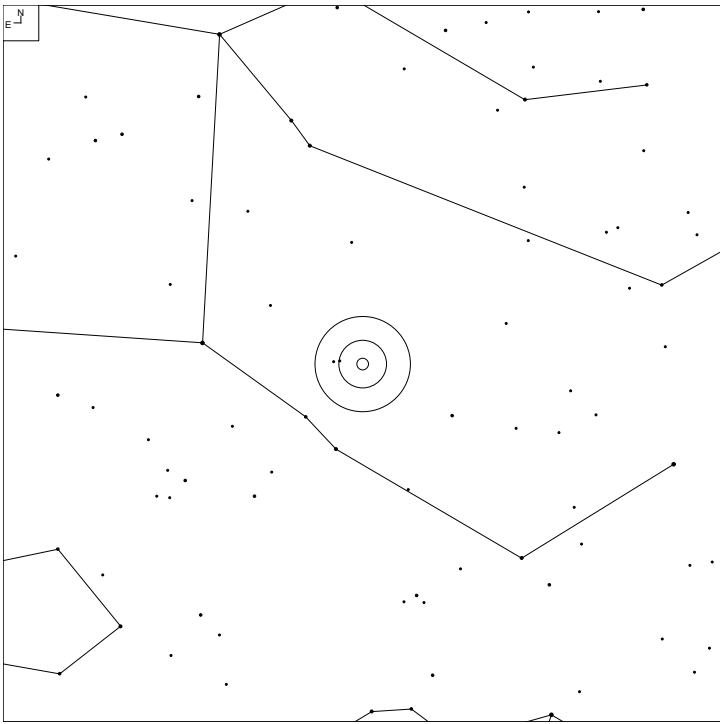
NGC 7270 (Pegasus)



Object	RA	Dec	Mag	Size
NGC 7270	22 23 47.5	+32 24 10	14.9p	0.9 x 0.5'
NGC 7271			15.6	0.7 x 0.3'
NGC 7275			15.2p	1.0 x 0.1'

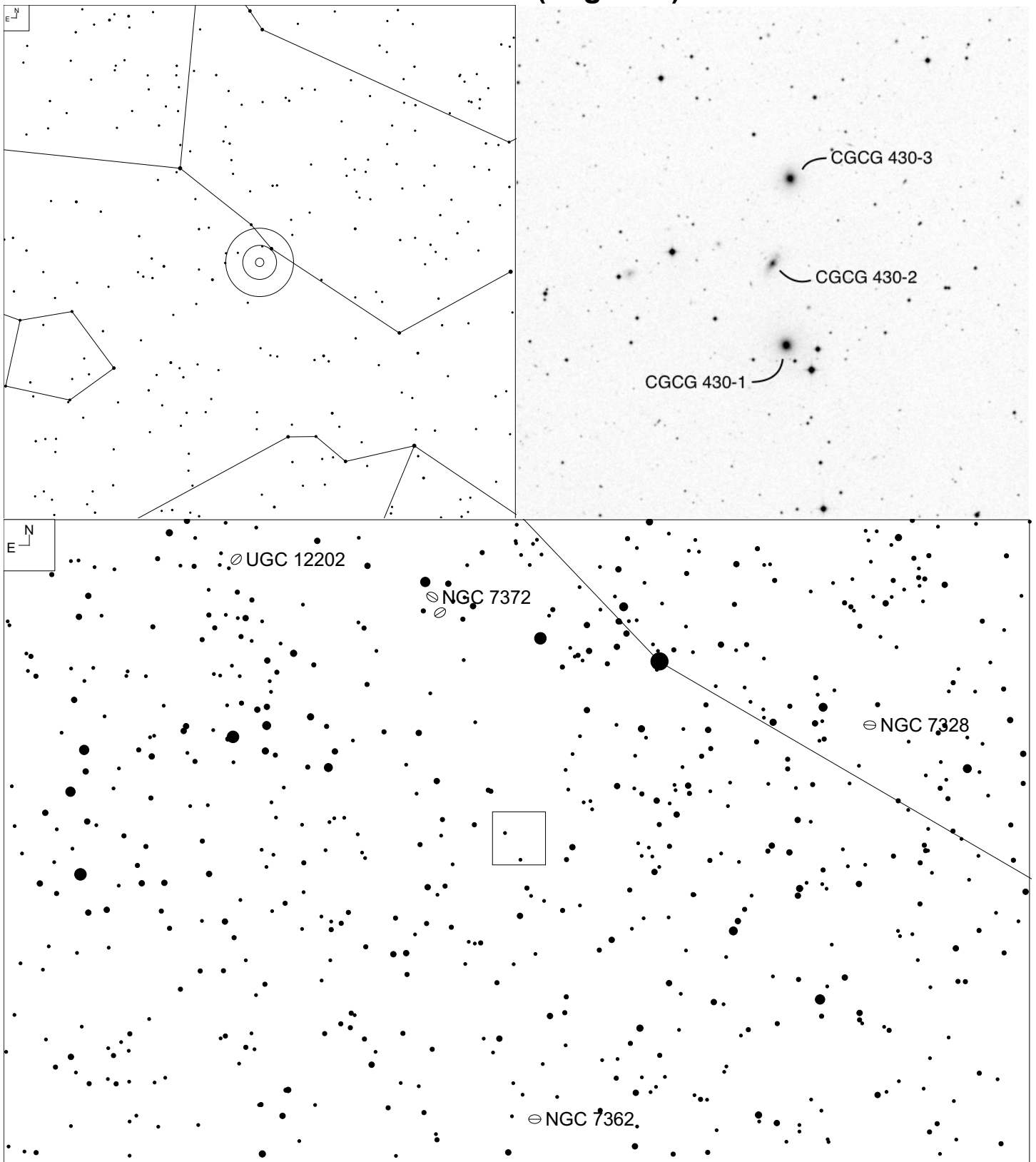
Miles Paul and Astronomical League trio

UGC 12110 (Pegasus)



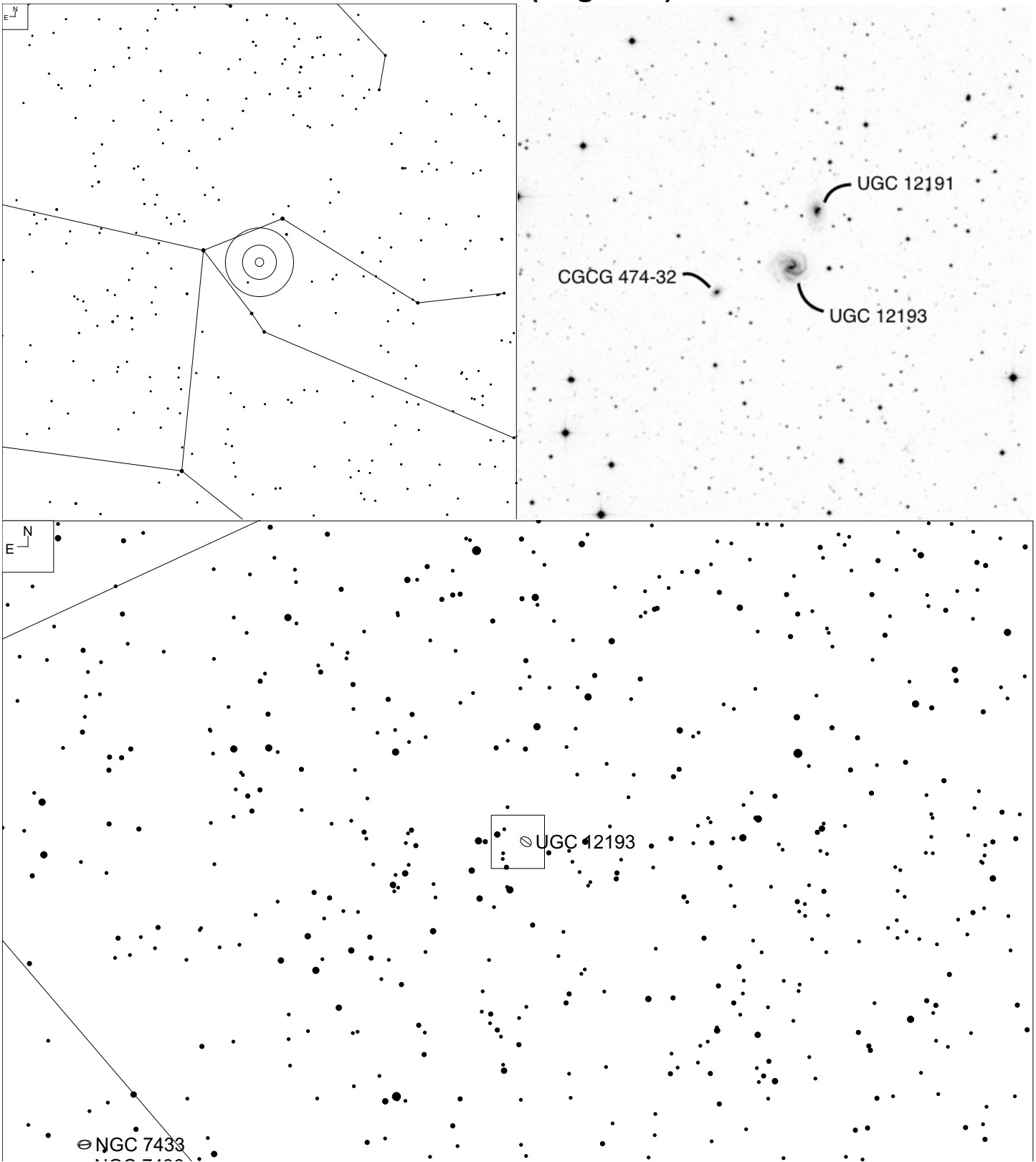
Object	RA	Dec	Mag	Size
UGC 12210	22 36 54.5	+14 24 50	15.3p	1.0 x 0.1'
CGCG 429-12			15.8	0.9 x 0.7'
MCG+2-57-6			16.4	0.5 x 0.3'

CGCG 430-1 (Pegasus)



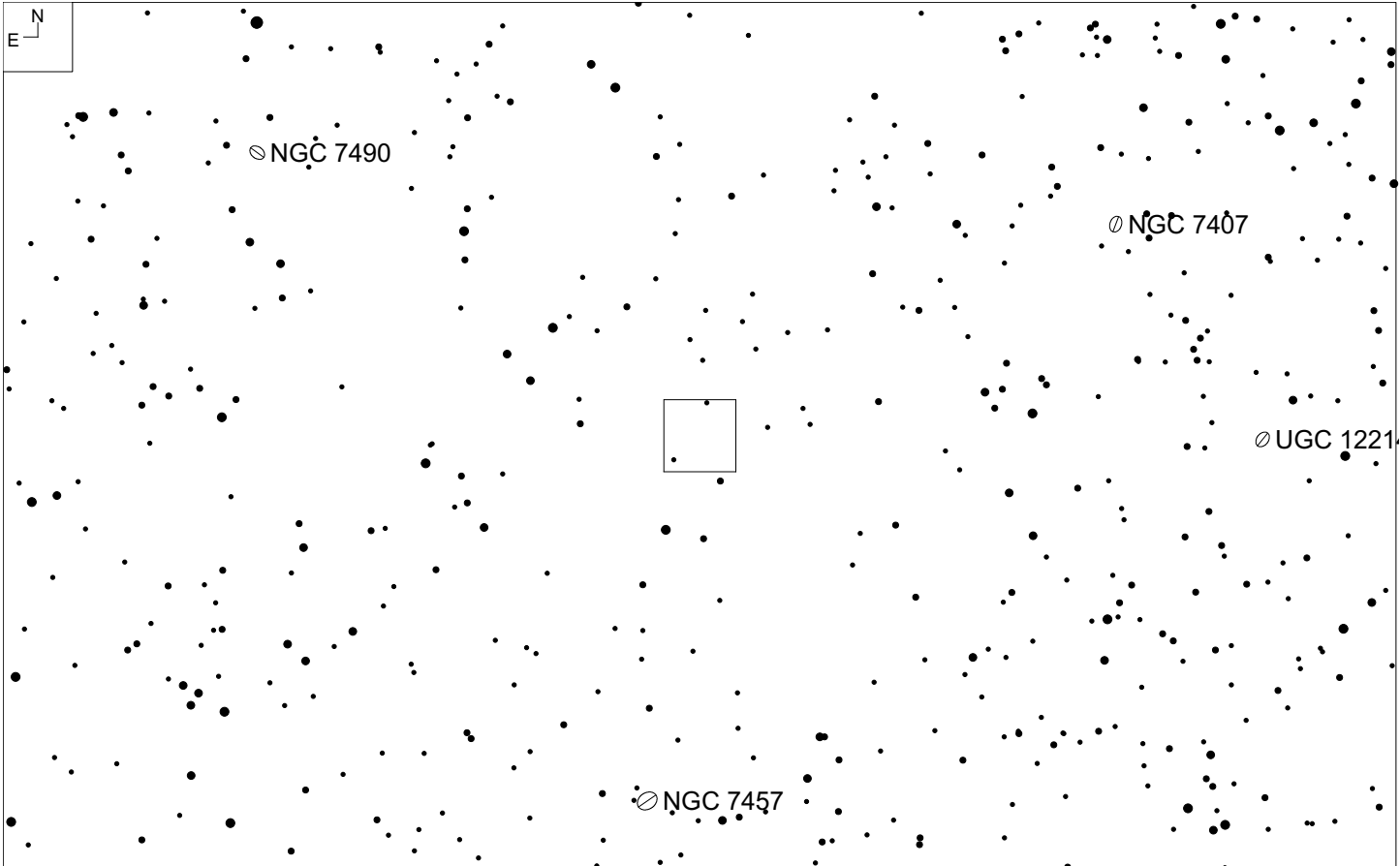
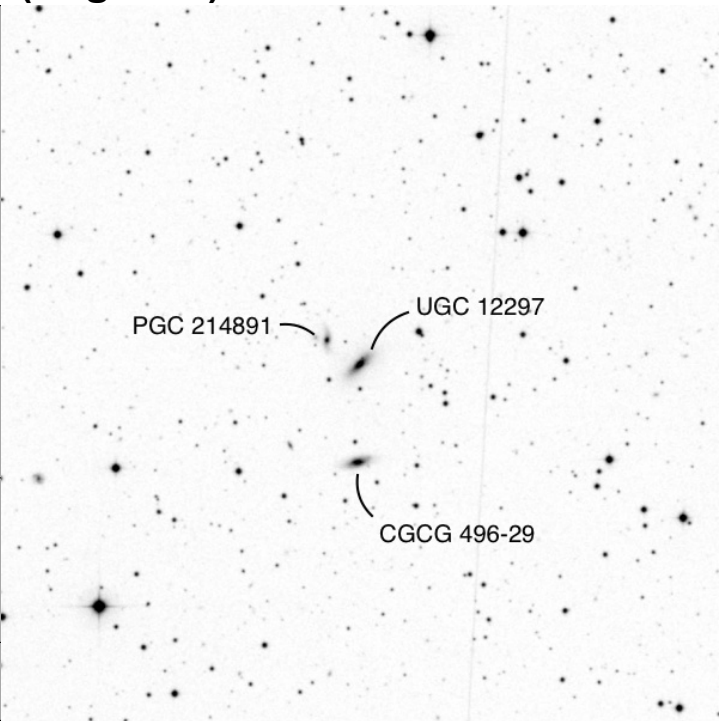
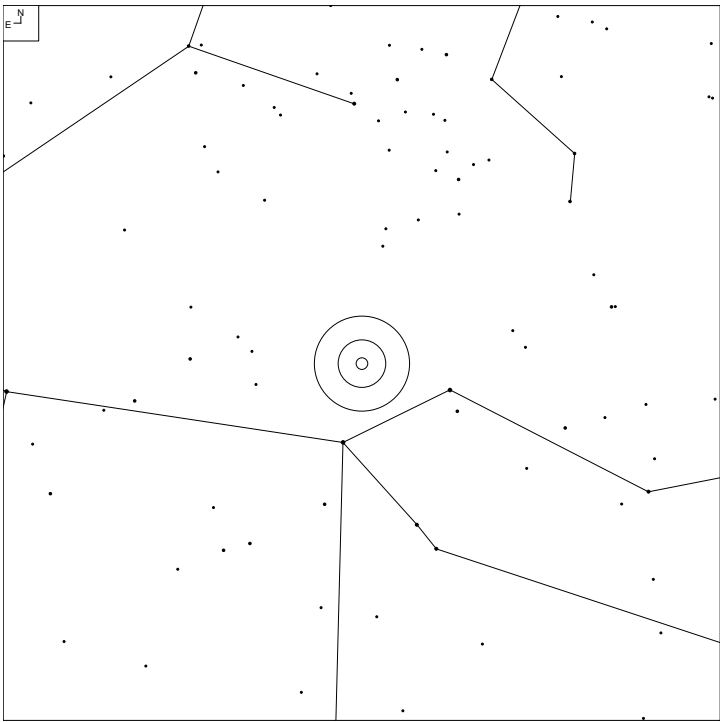
Object (KTG 75)	RA	Dec	Mag	Size
CGCG 430-1	22 44 09.9	+09 59 25	15.2	0.7 x 0.6'
CGCG 430-2			15.3p	0.8 x 0.4'
CGCG 430-3			15.3	0.6 x 0.6'

UGC 12191 (Pegasus)



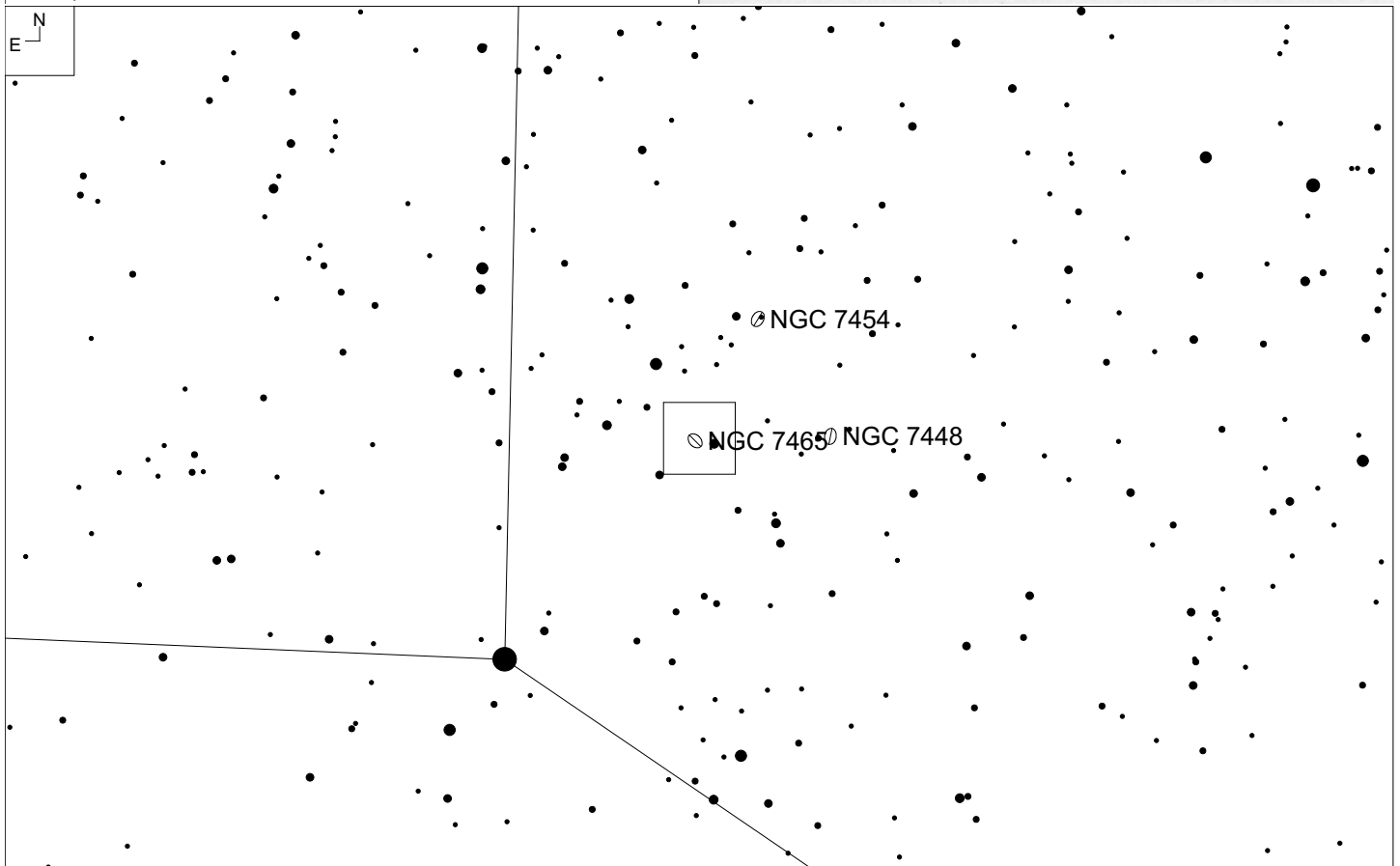
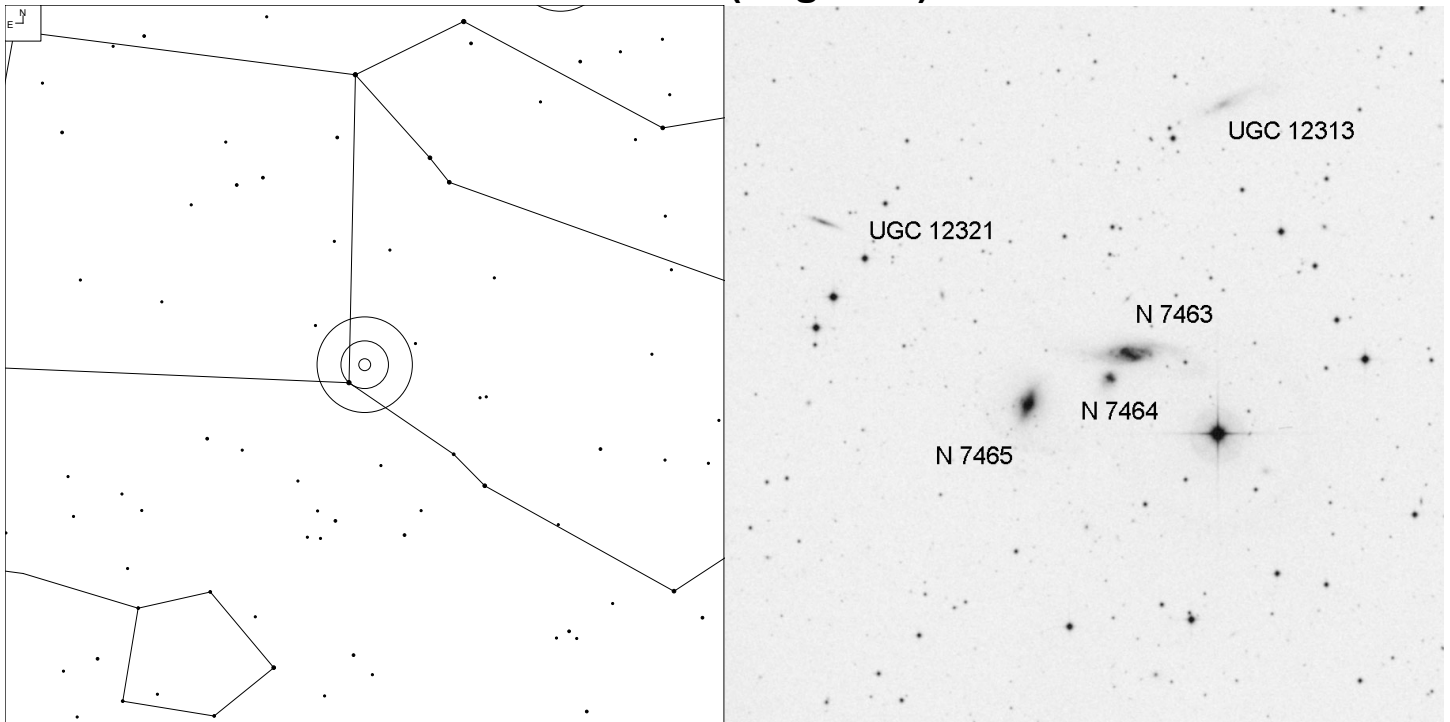
Object (KTG 76)	RA	Dec	Mag	Size
UGC 12191	22 48 40.7	+27 36 43	14.7p	1.3 x 0.6'
UGC 12193			13.9p	1.2 x 1.1'
CGCG 474-32			15.8	0.4 x 0.3'

UGC 12297 (Pegasus)



Object	RA	Dec	Mag	Size
UGC 12297	23 00 09.4	+31 24 33	14.8p	1.1 x 0.4'
CGCG 496-29			15.5p	0.7 x 0.3'
PGC 214891			16.1	0.2 x 0.1'

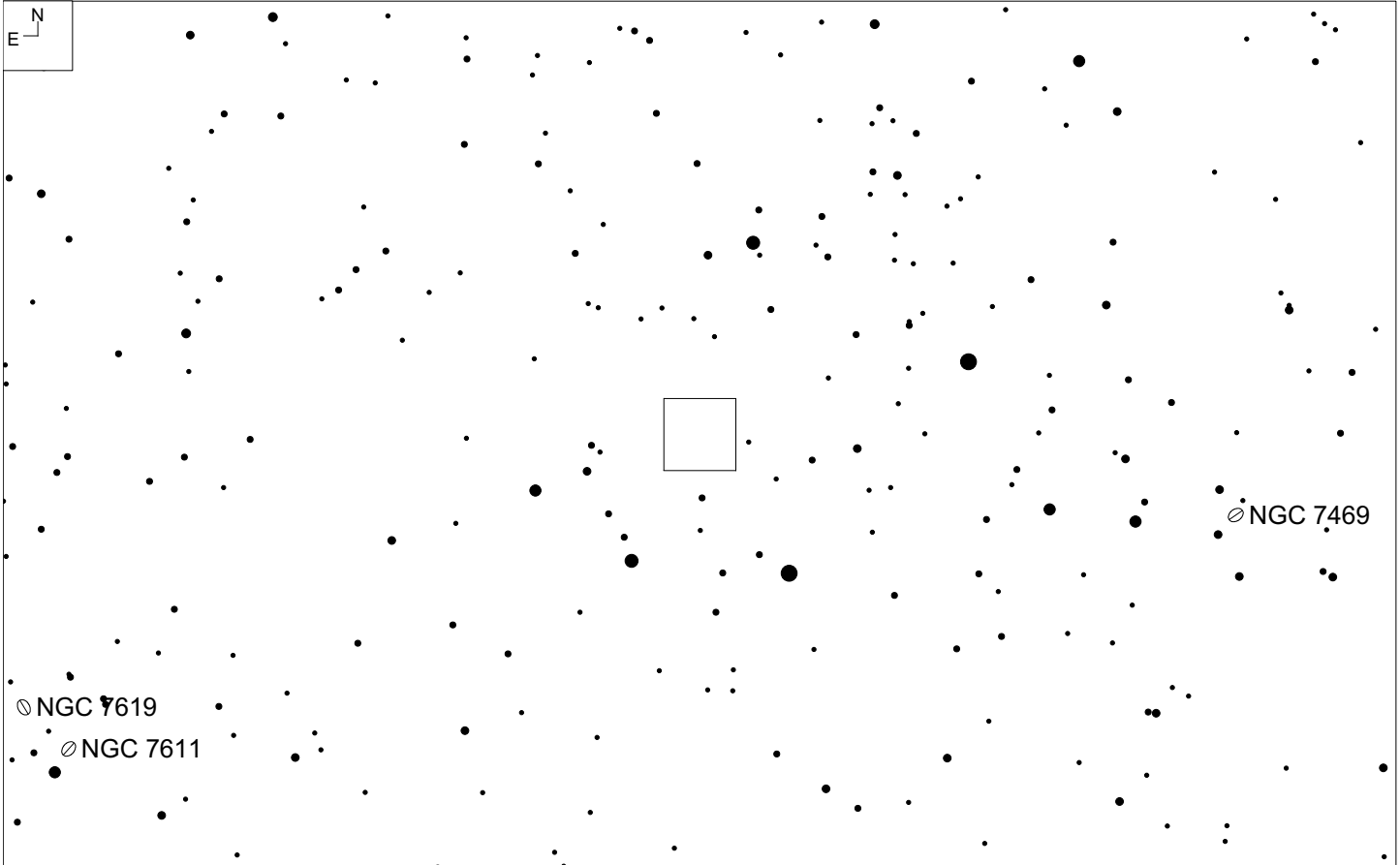
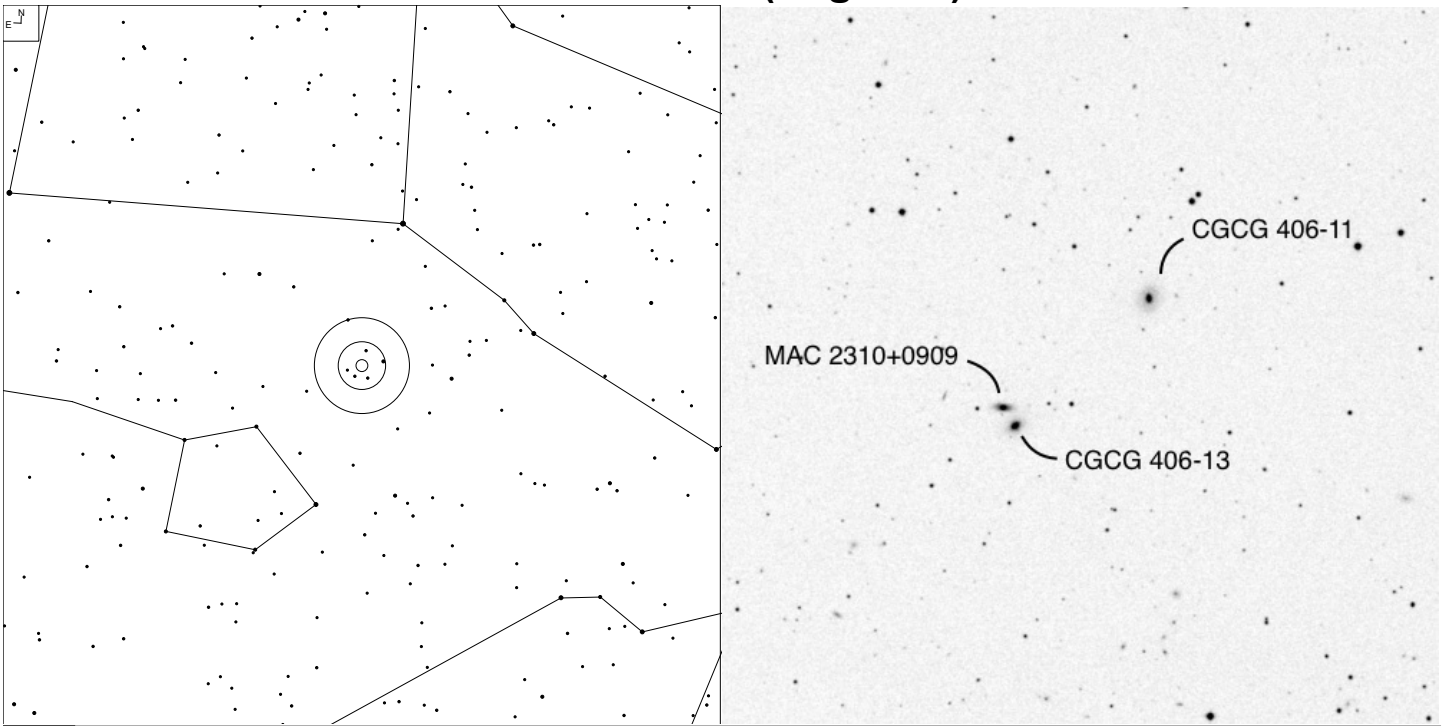
NGC 7465 (Pegasus)



Object	RA	Dec	Mag	Size
NGC 7465	23 02 01.0	+15 57 53	12.6v	2.2 x 1.8'
NGC 7464			14.3p	0.8 x 0.8'
NGC 7463			13.8b	3.7 x 0.7'

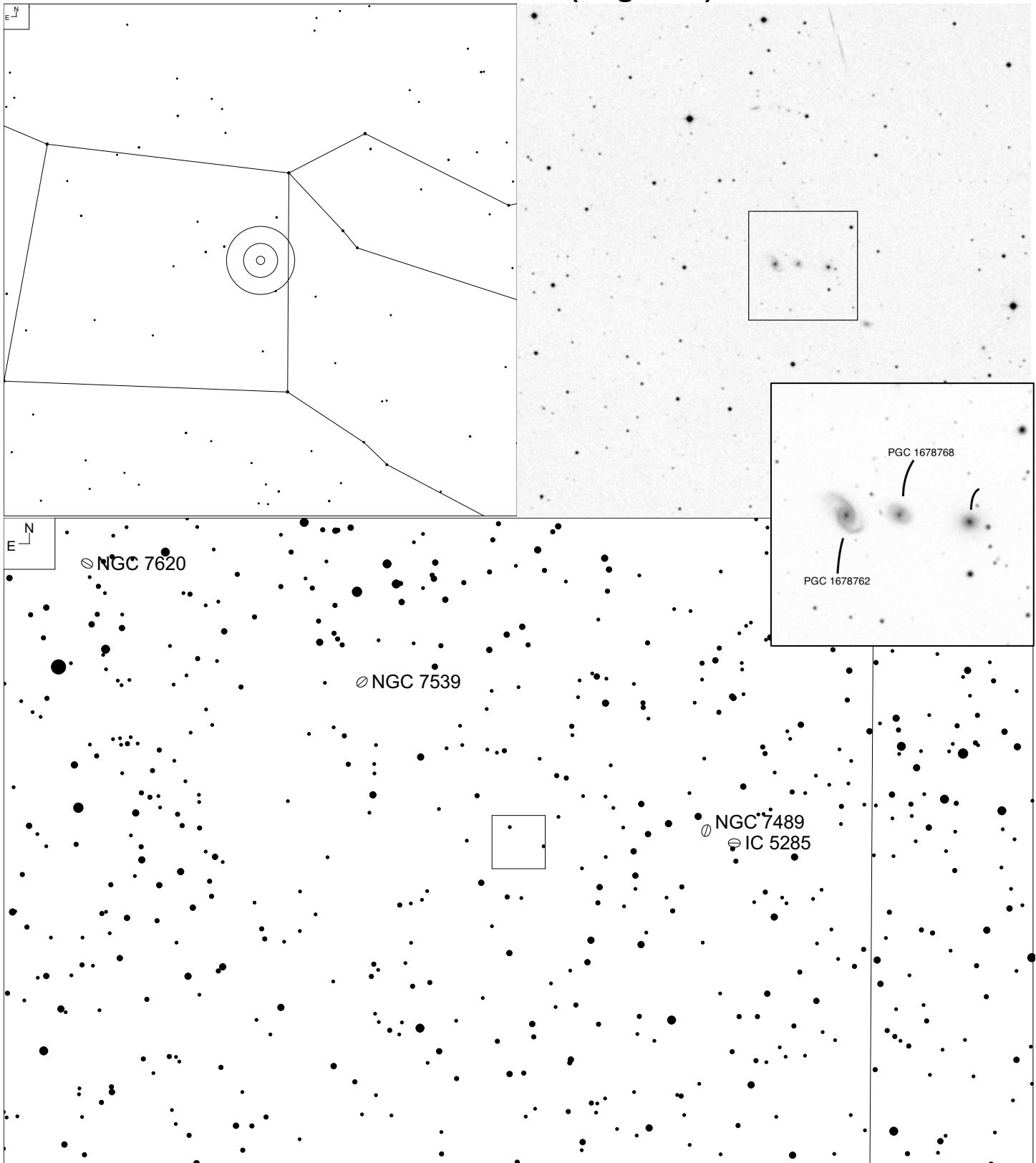
Miles Paul and Astronomical League trio

CGCG 406-11 (Pegasus)



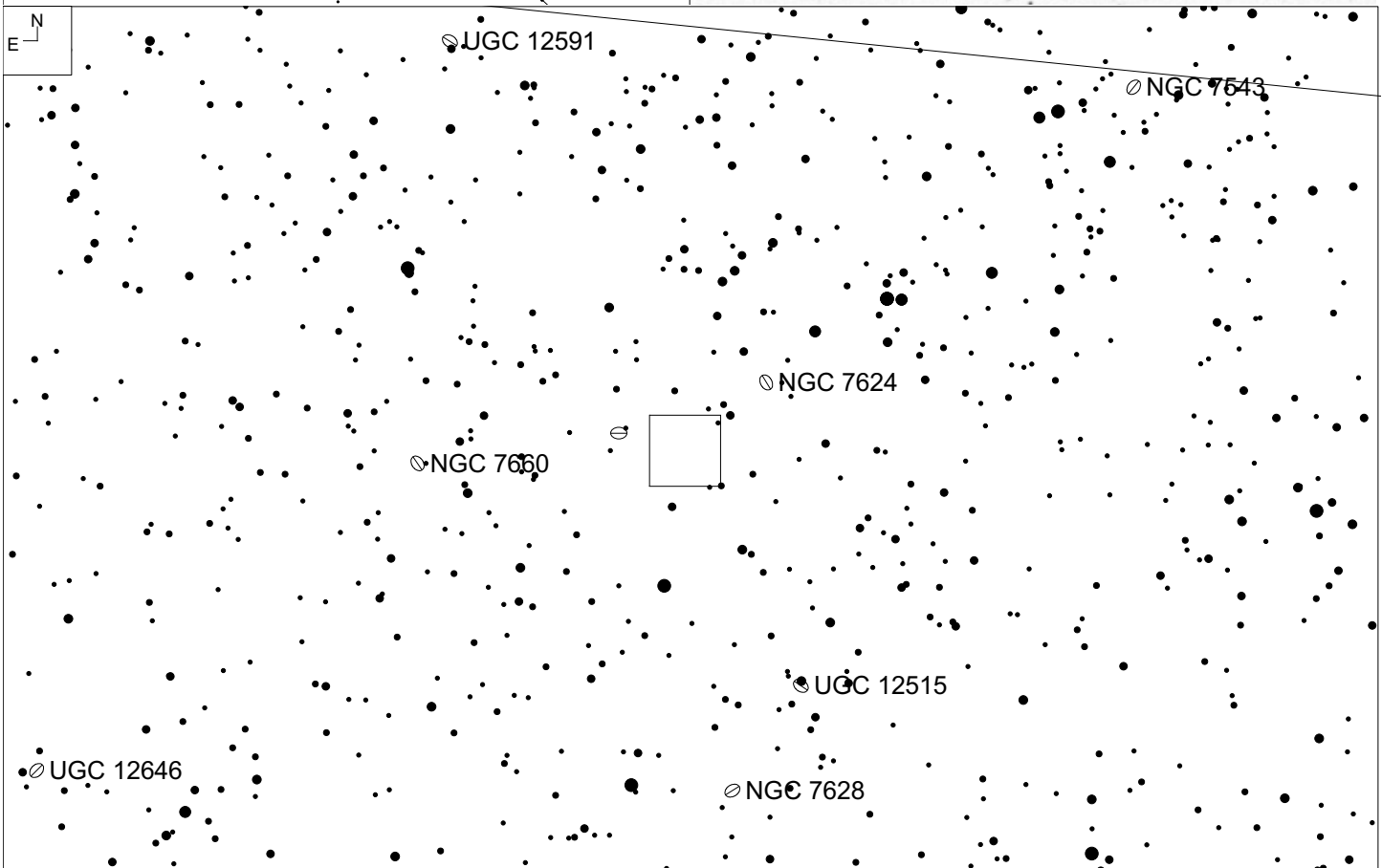
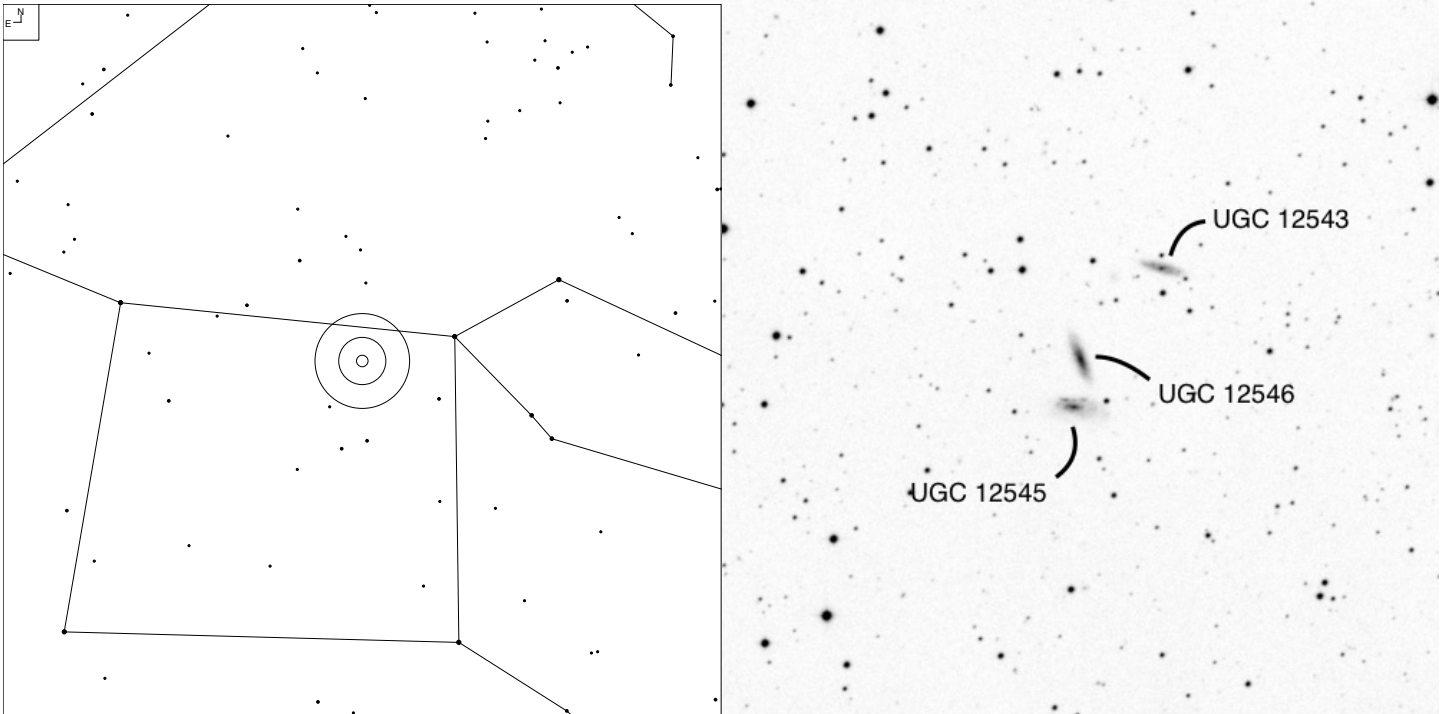
Object (KTG 77)	RA	Dec	Mag	Size
CGCG 406-11	23 10 39.0	+09 11 19	15.6	0.5 x 0.4'
CGCG 406-13			14.8	0.4 x 0.2'
MAC 2310+0909			15.5	0.5 x 0.2'

MAC 2311+2256 (Pegasus)



Object	RA	Dec	Mag	Size
PGC 1678762	23 11 19.4	+22 56 49	16.5	0.7 x 0.3'
PGC 1678768			16.8*	0.2'
"right most galaxy"			17.0*	0.2'

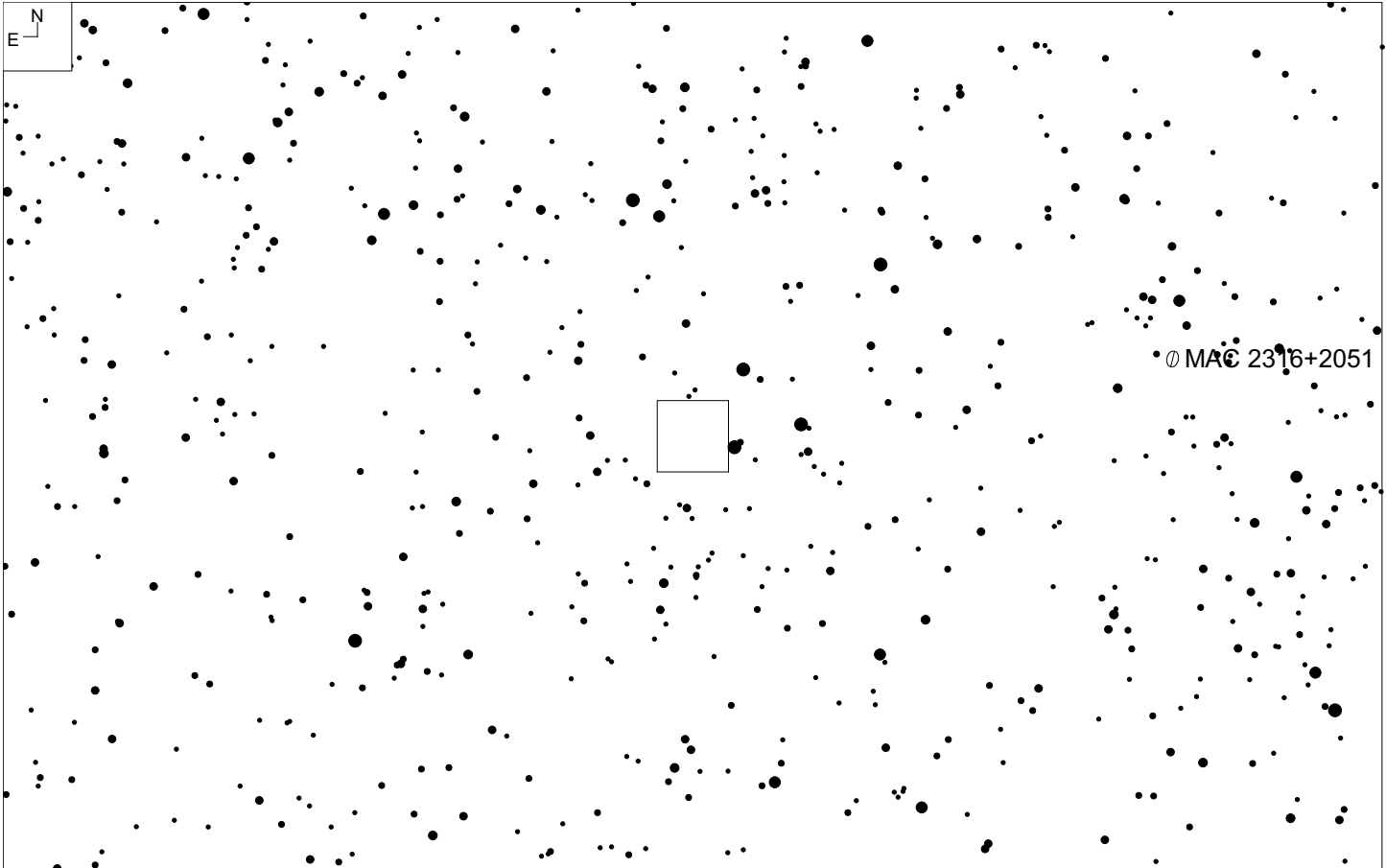
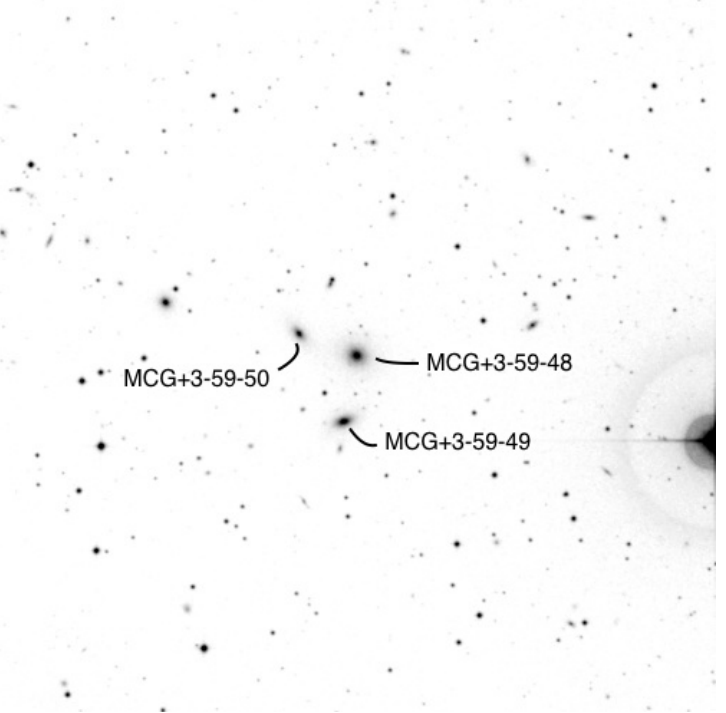
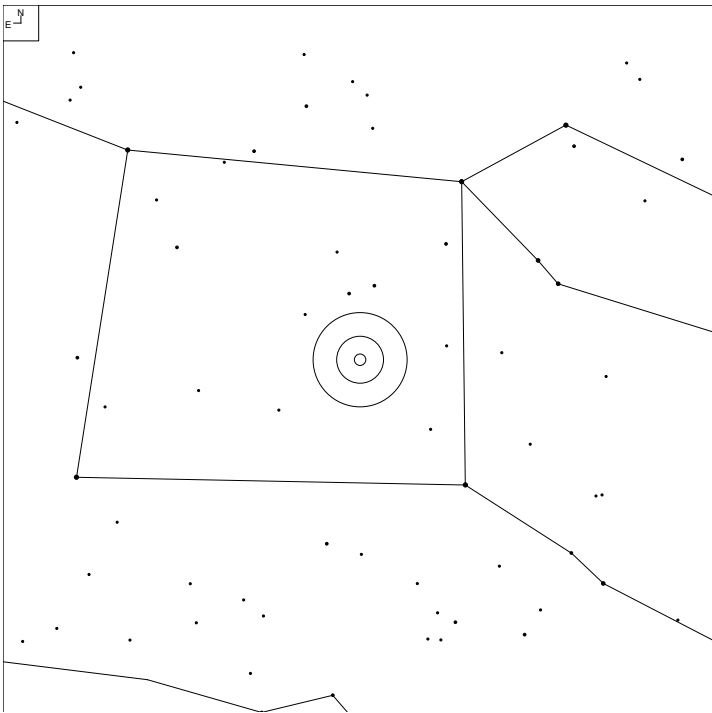
UGC 12543 (Pegasus)



Object (KTG 79)	RA	Dec	Mag	Size
UGC 12543	23 21 33.5	+27 07 08	15.4p	0.8 x 0.2'
UGC 12546			15.2p	1.2 x 0.3'
UGC 12545			15.1p	1.1 x 0.5'

Miles Paul trio

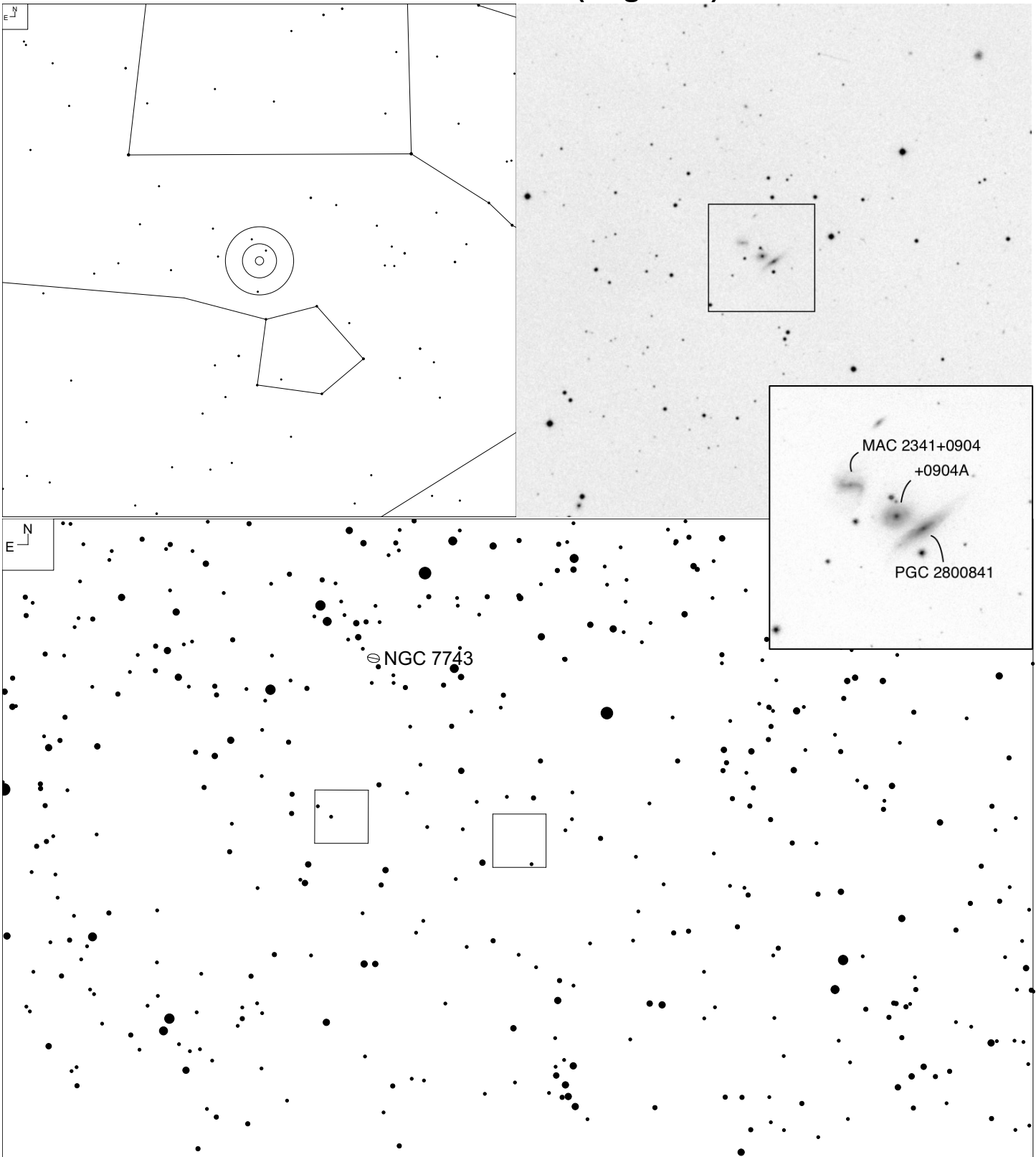
MCG+3-59-48 (Pegasus)



Object	RA	Dec	Mag	Size
MCG+3-59-48	23 23 20.3	+20 35 23	15.3	1.0 x 0.9'
MCG+3-59-49			15.4	0.6 x 0.3'
MCG+3-59-50			15.4	0.6 x 0.4'

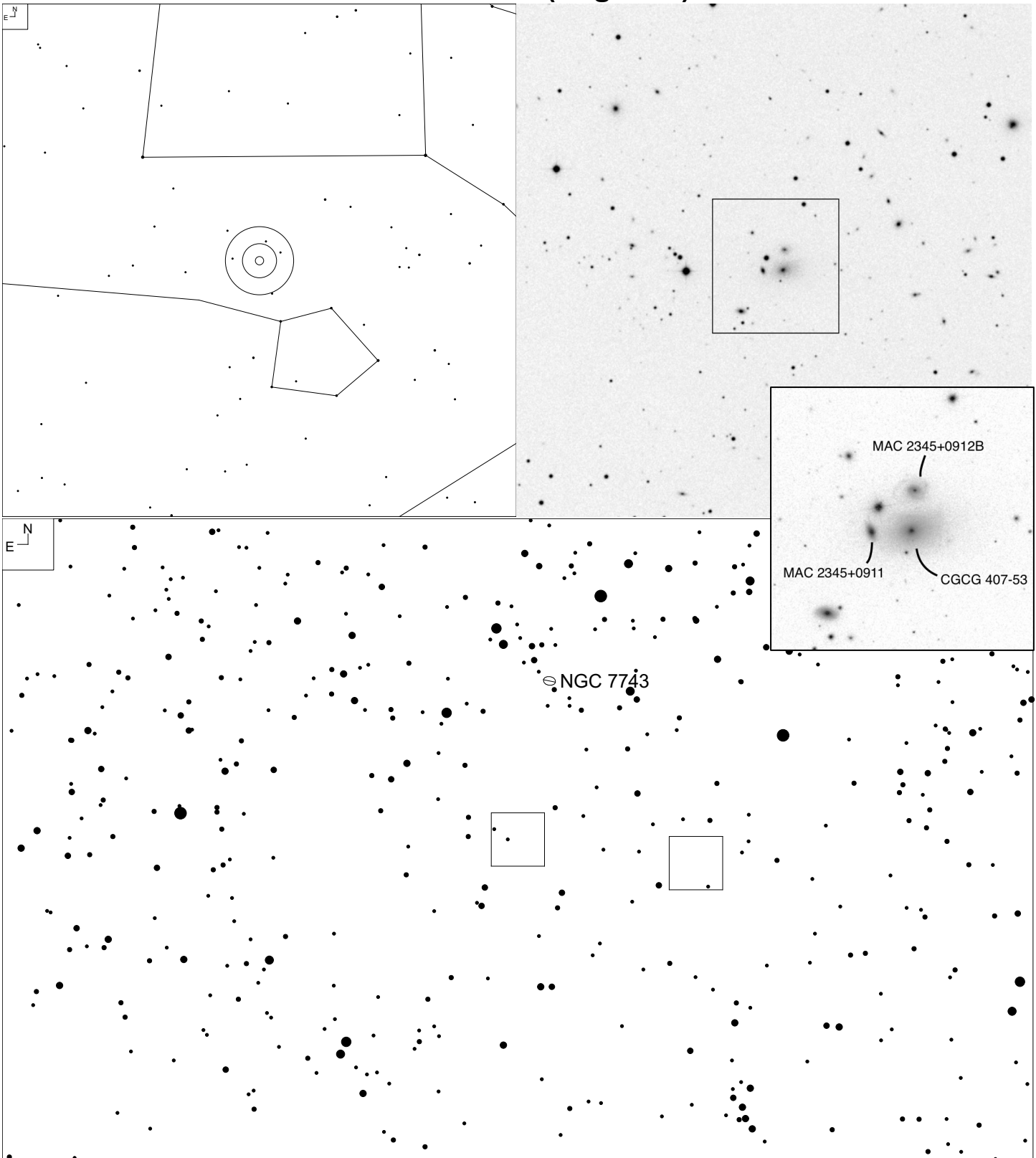
Miles Paul trio

MAC 2341+0904B (Pegasus)



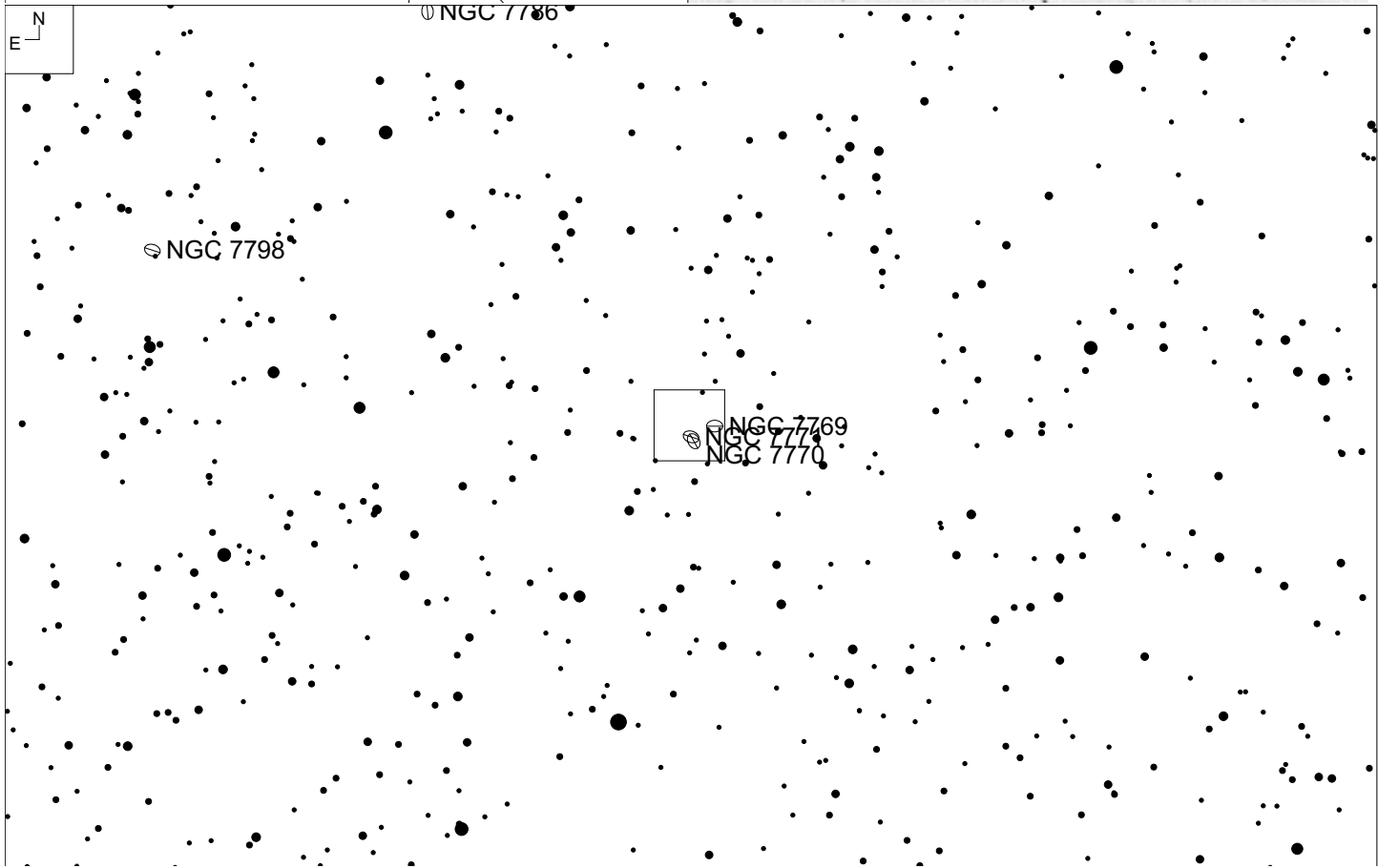
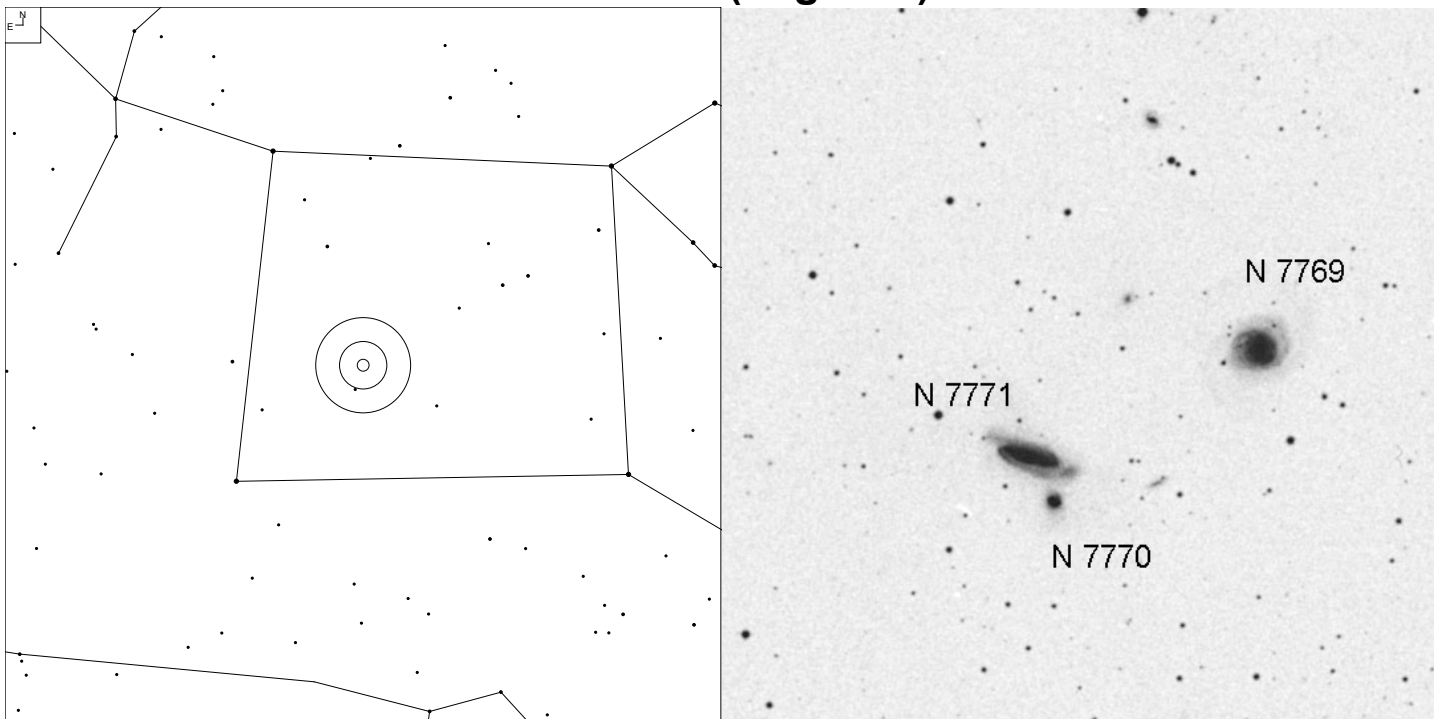
Object	RA	Dec	Mag	Size
PGC 2800841	23 41 30.9	+09 04 24	16.0	0.6 x 0.2'
MAC 2341+0904A			16.5	0.4'
MAC 2341+0904			17.0	0.7 x 0.5'

CGCG 407-53 (Pegasus)



Object	RA	Dec	Mag	Size
CGCG 407-53	23 44 57.3	+09 11 36	15.3	0.7 x 0.7'
MAC 2345+0911			15.5	0.3 x 0.2'
MAC 2345+0912B			16.0	0.5 x 0.5'

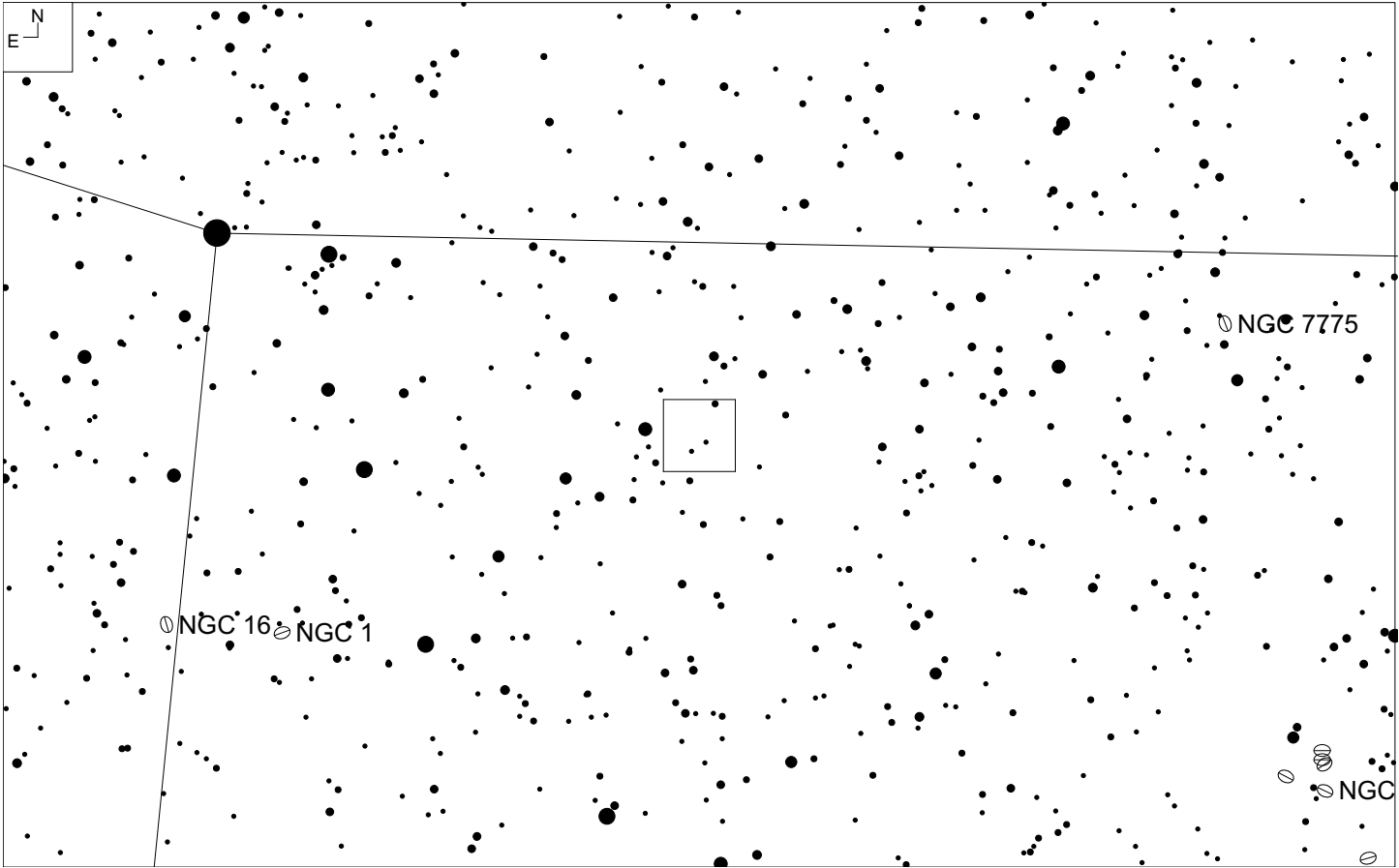
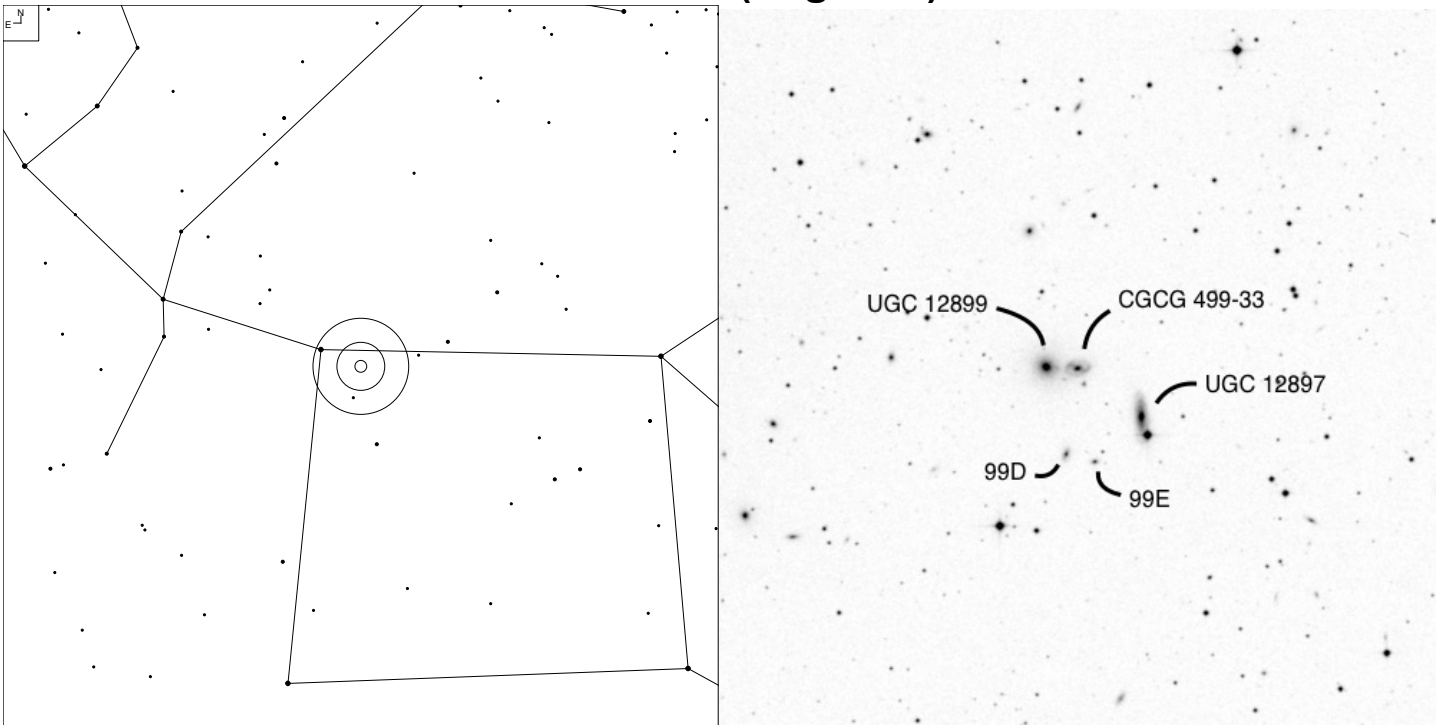
NGC 7769 (Pegasus)



Object (KTG 82)	RA	Dec	Mag	Size
NGC 7769	23 51 03.9	+20 09 00	12.8p	2.8 x 2.8'
NGC 7771			13.1b	3.0 x 1.4'
NGC 7770			14.4b	1.0 x 0.7'

Miles Paul and Astronomical League trio

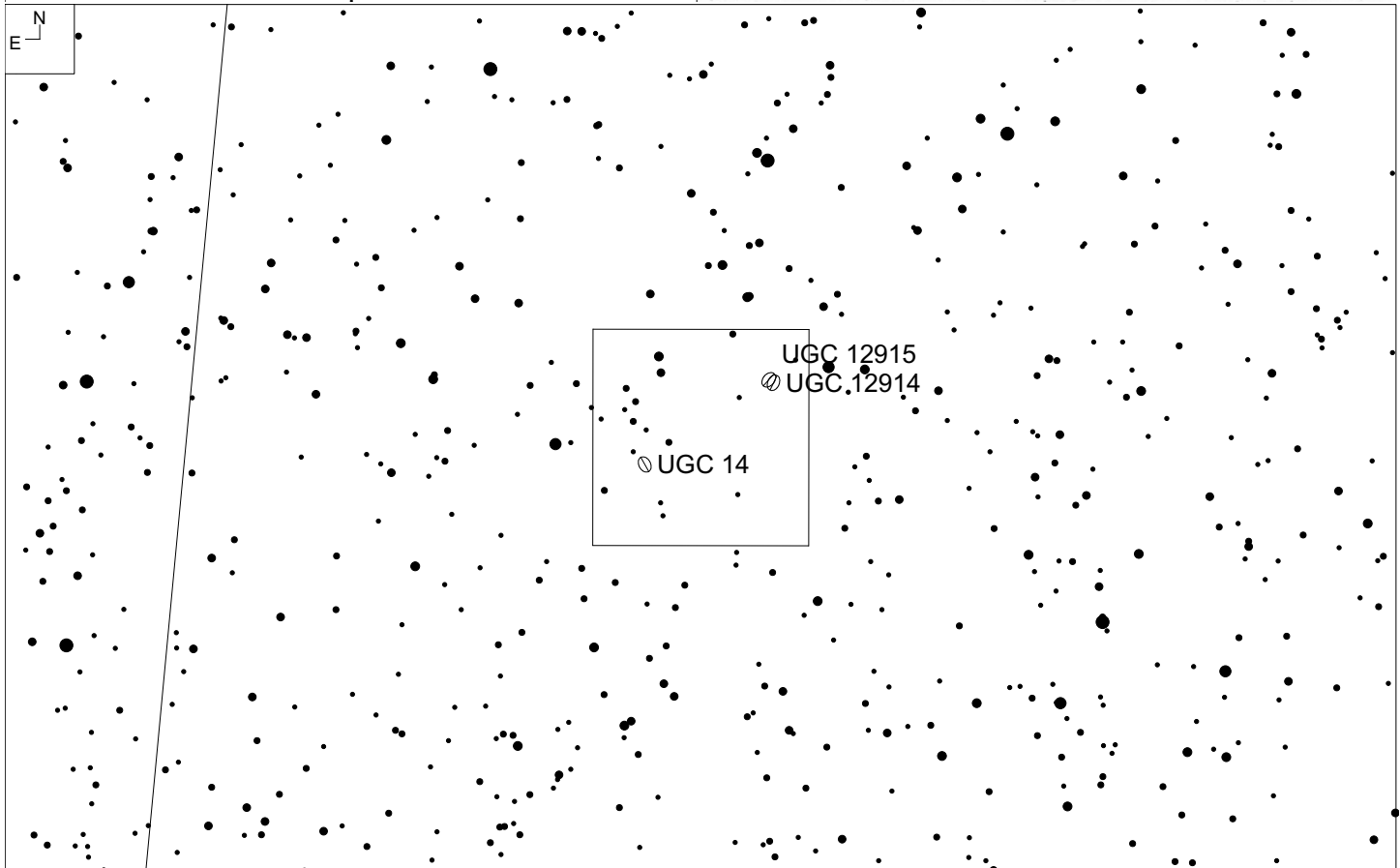
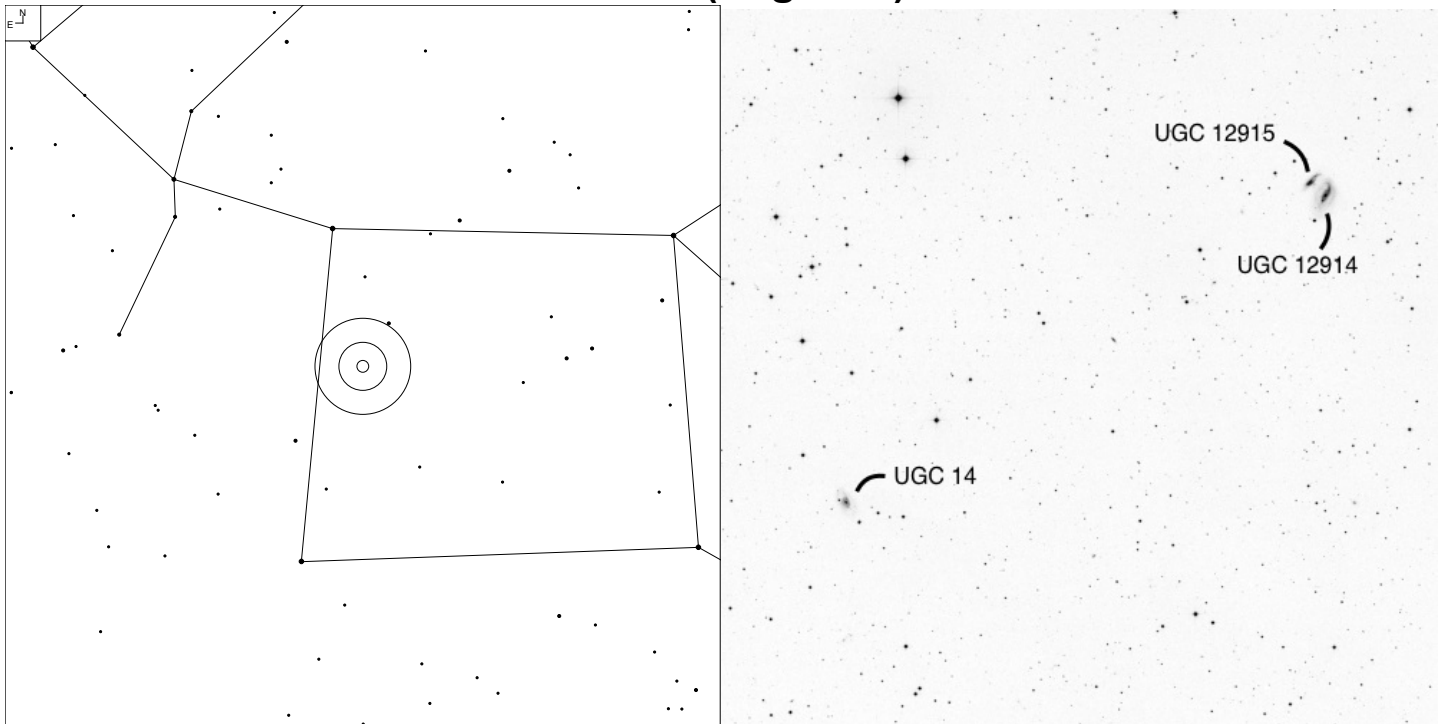
UGC 12897 (Pegasus)



Object (KTG 83)	RA	Dec	Mag	Size
UGC 12897	00 00 42.5	+28 23 36	14.8	1.1 x 0.4'
UGC 12899			14.7	0.8 x 0.7'
CGCG 499-33			15.7	0.7 x 0.4'

Part of Hickson 99

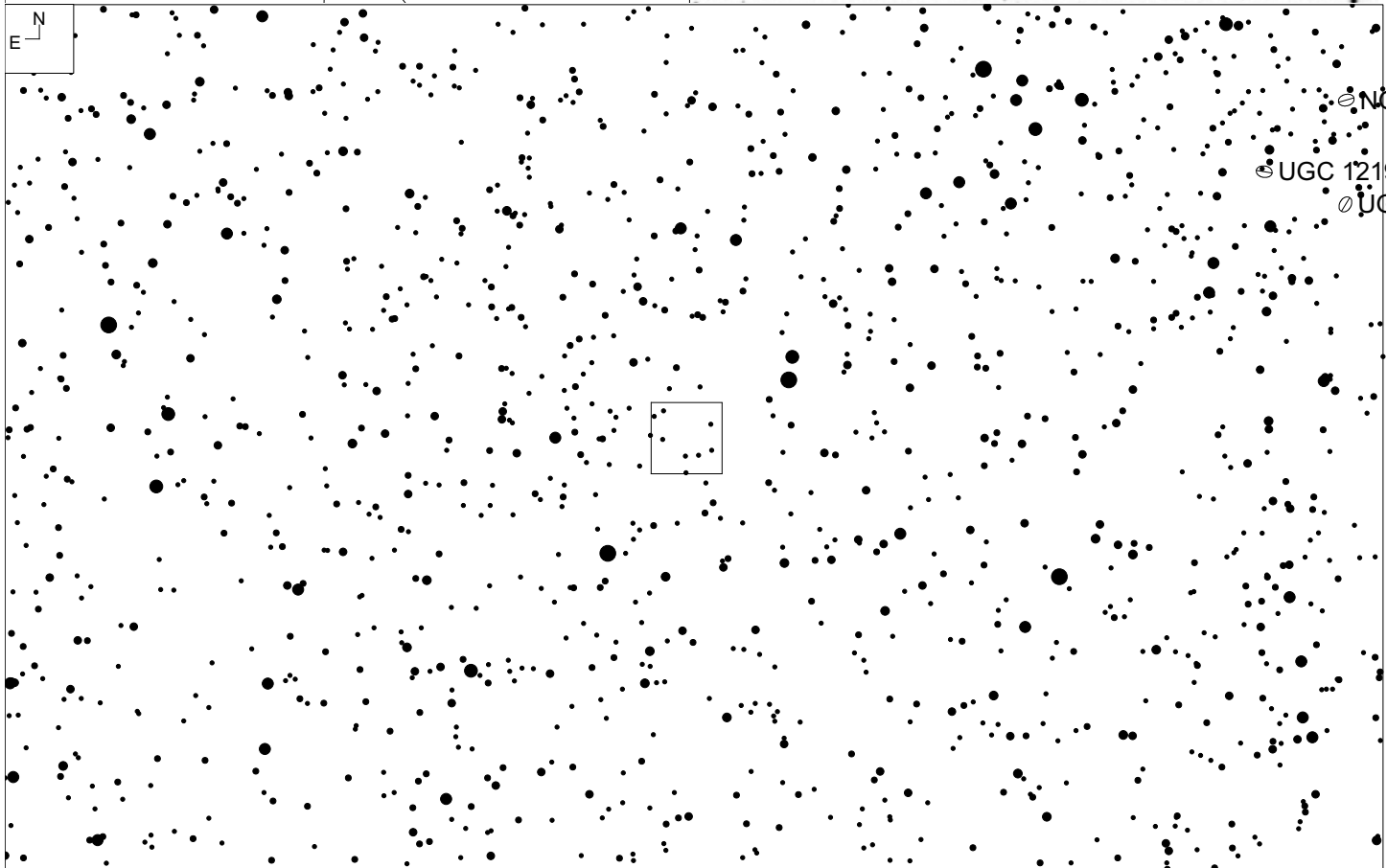
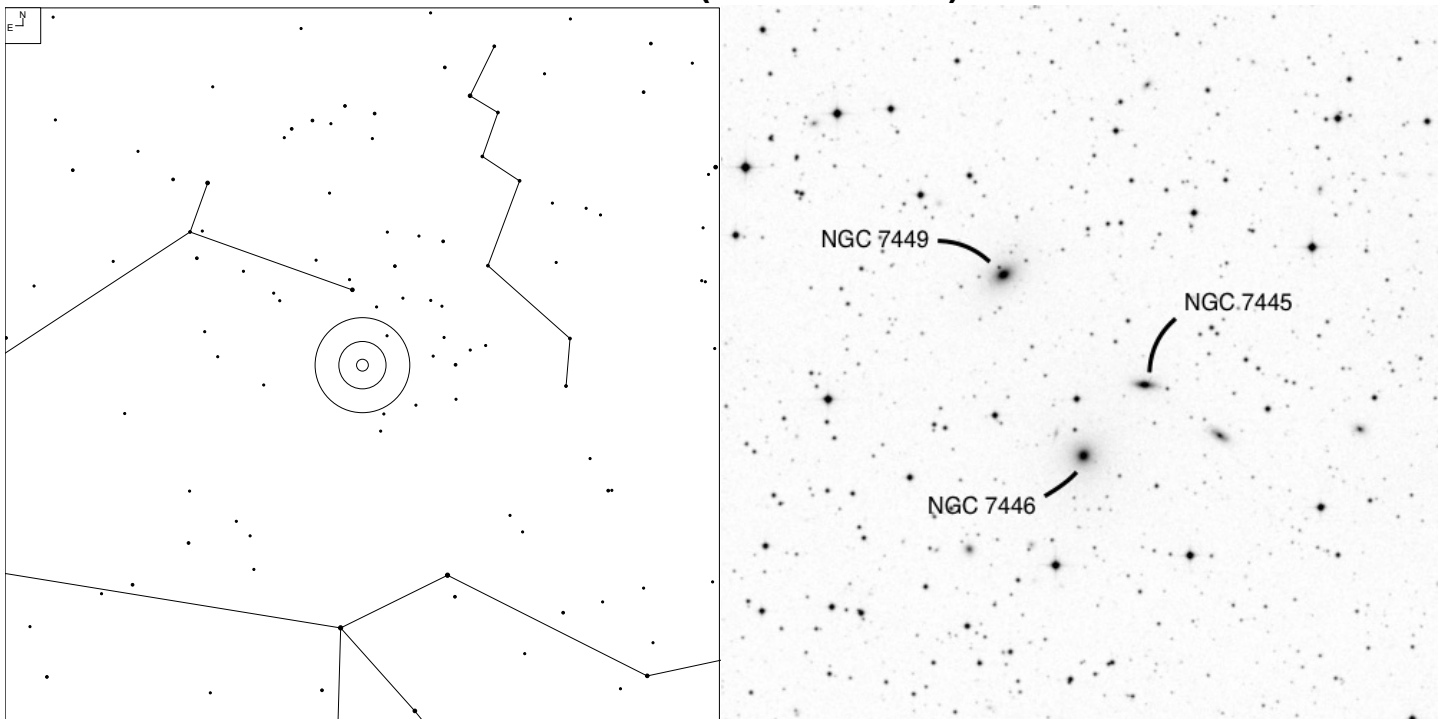
UGC 14 (Pegasus)



Object (KTG 84)	RA	Dec	Mag	Size
UGC 14	00 02 36.7	+23 20 53	13.8	2.0 x 0.9'
UGC 12915			13.9	1.5 x 0.6'
UGC 12914			13.1	2.3 x 1.2'

UGC 12914/15 = Taffy Galaxies

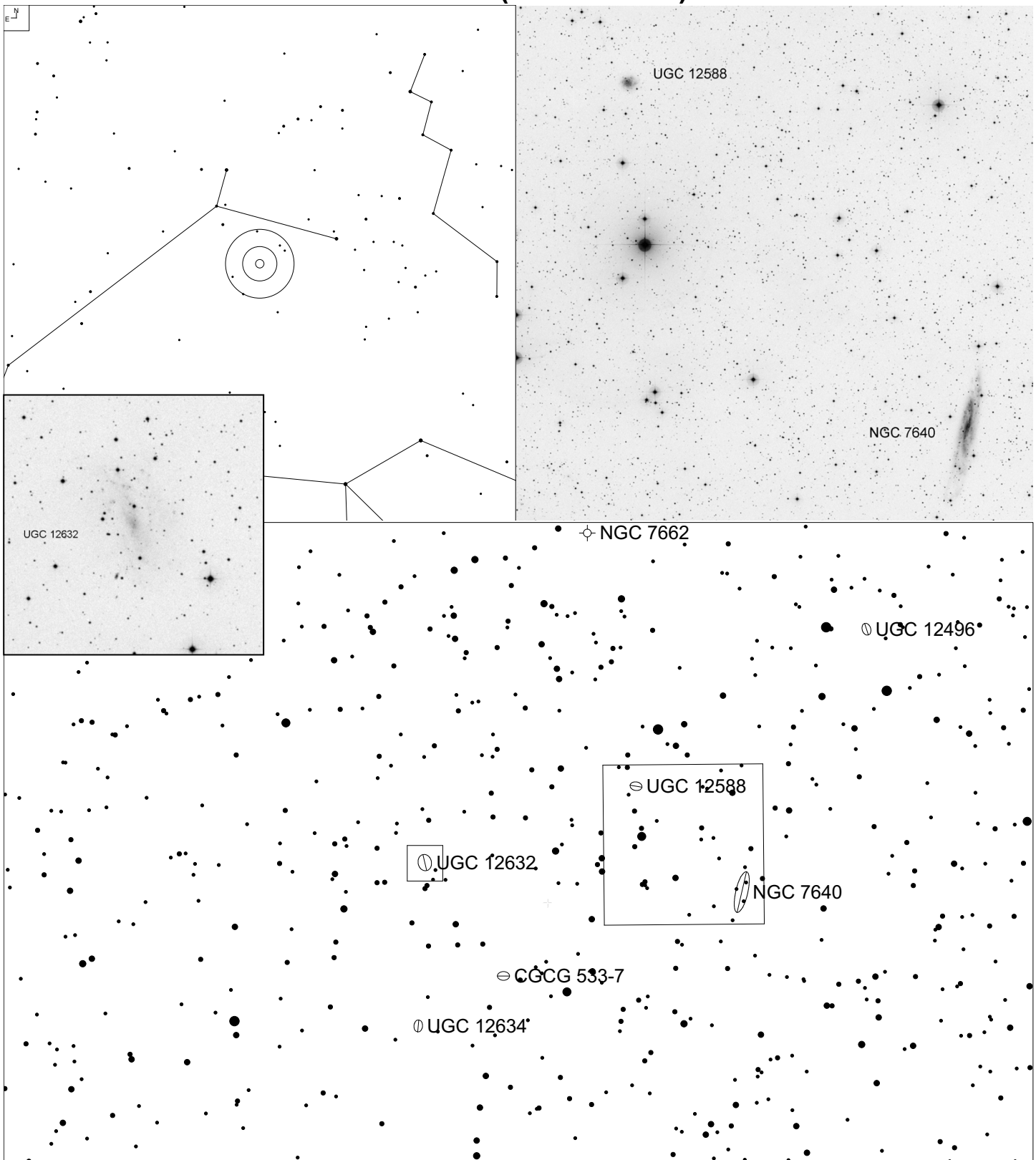
NGC 7449 (Andromeda)



Object	RA	Dec	Mag	Size
NGC 7449	22 59 37.5	+39 08 47	15.0p	1.0 x 0.7'
NGC 7445			15.6	0.7 x 0.2'
NGC 7446			15.4	0.8 x 0.8'

Miles Paul and Astronomical League trio

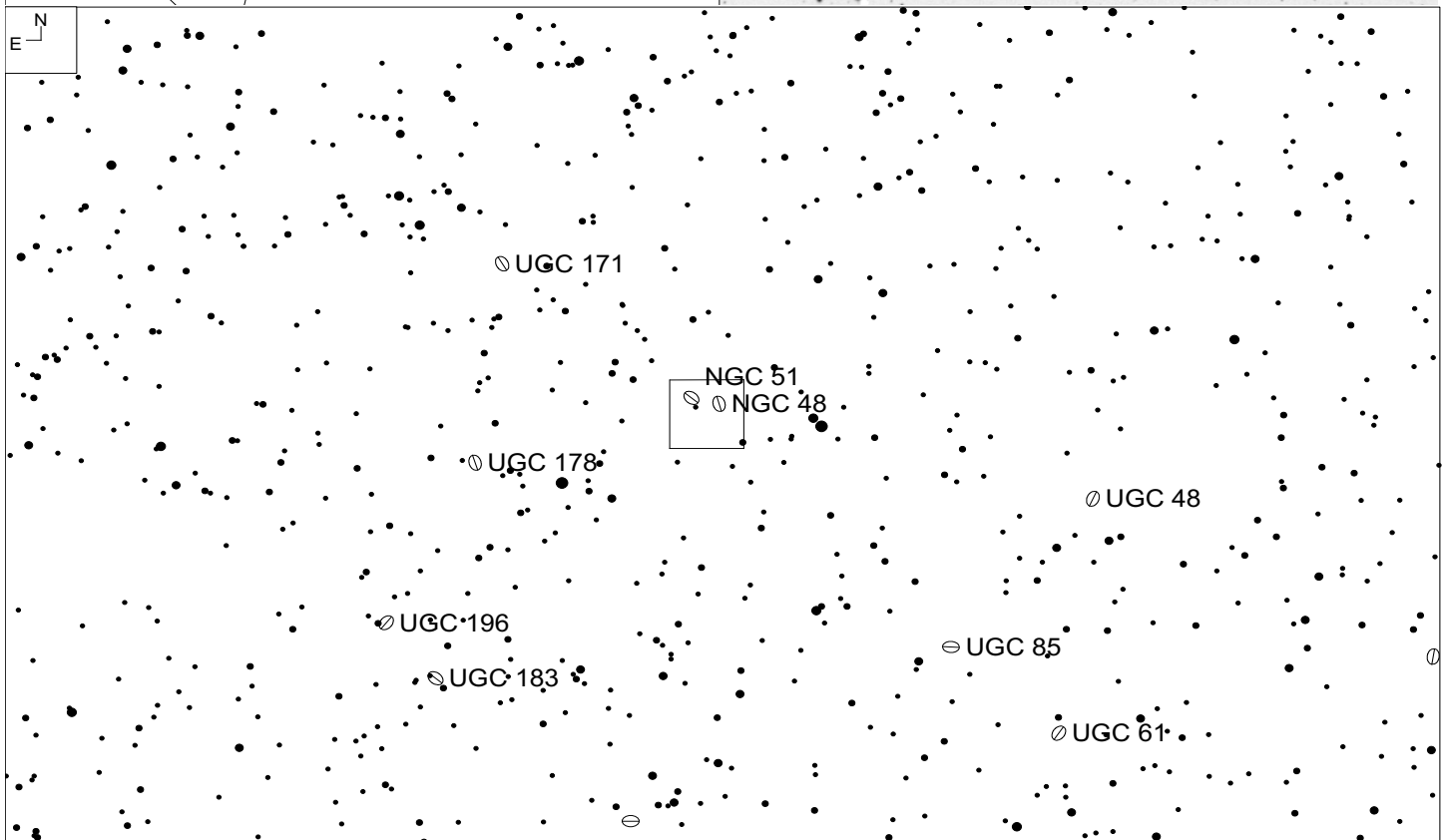
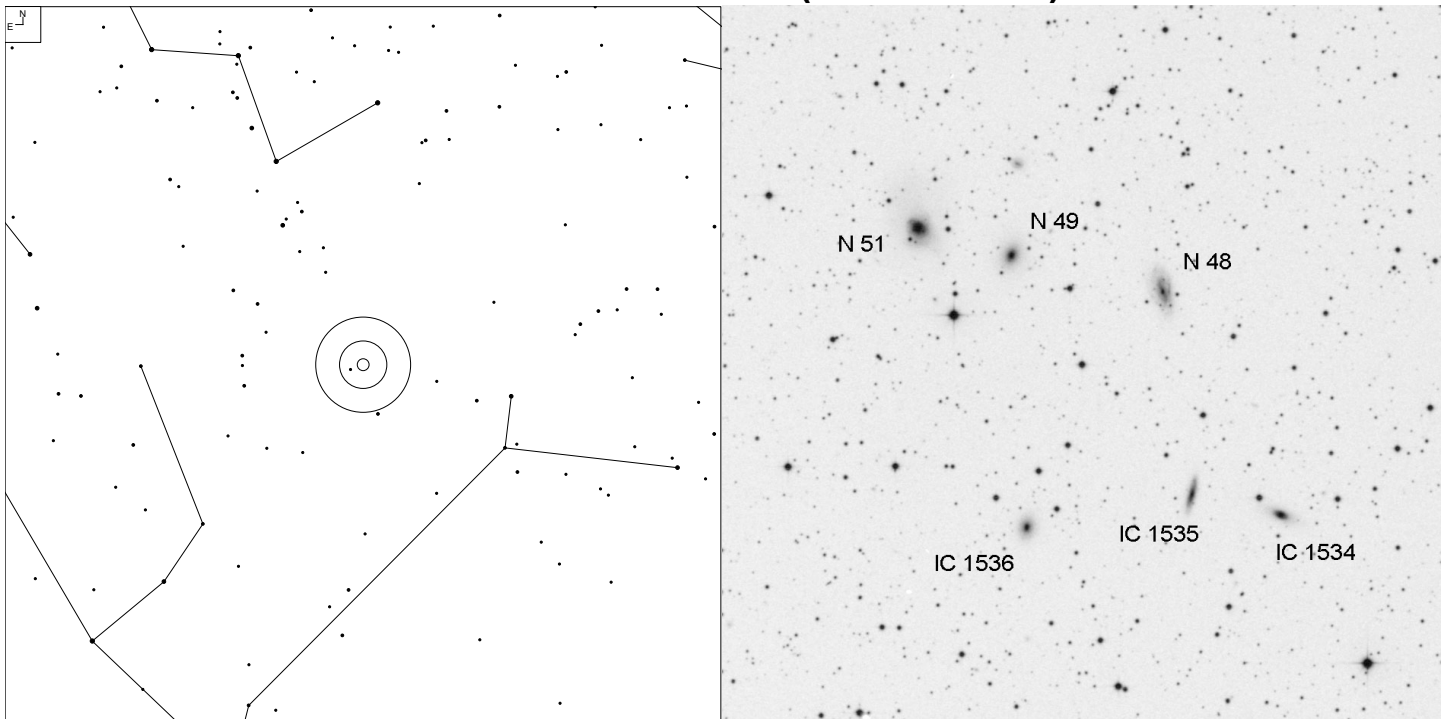
NGC 7640 (Andromeda)



Object (KTG 80)	RA	Dec	Mag	Size
NGC 7640	23 26 16.3	+41 01 28	11.9	11.6 x 1.9'
UGC 12588			13.7	2.1 x 1.6'
UGC 12632			12.8	4.5 x 3.7'

This trio is spread so far apart that UGC 12632 is not in the 15' DSS image. A separate image is inset.

IC 1535 and NGC 51 (Andromeda)

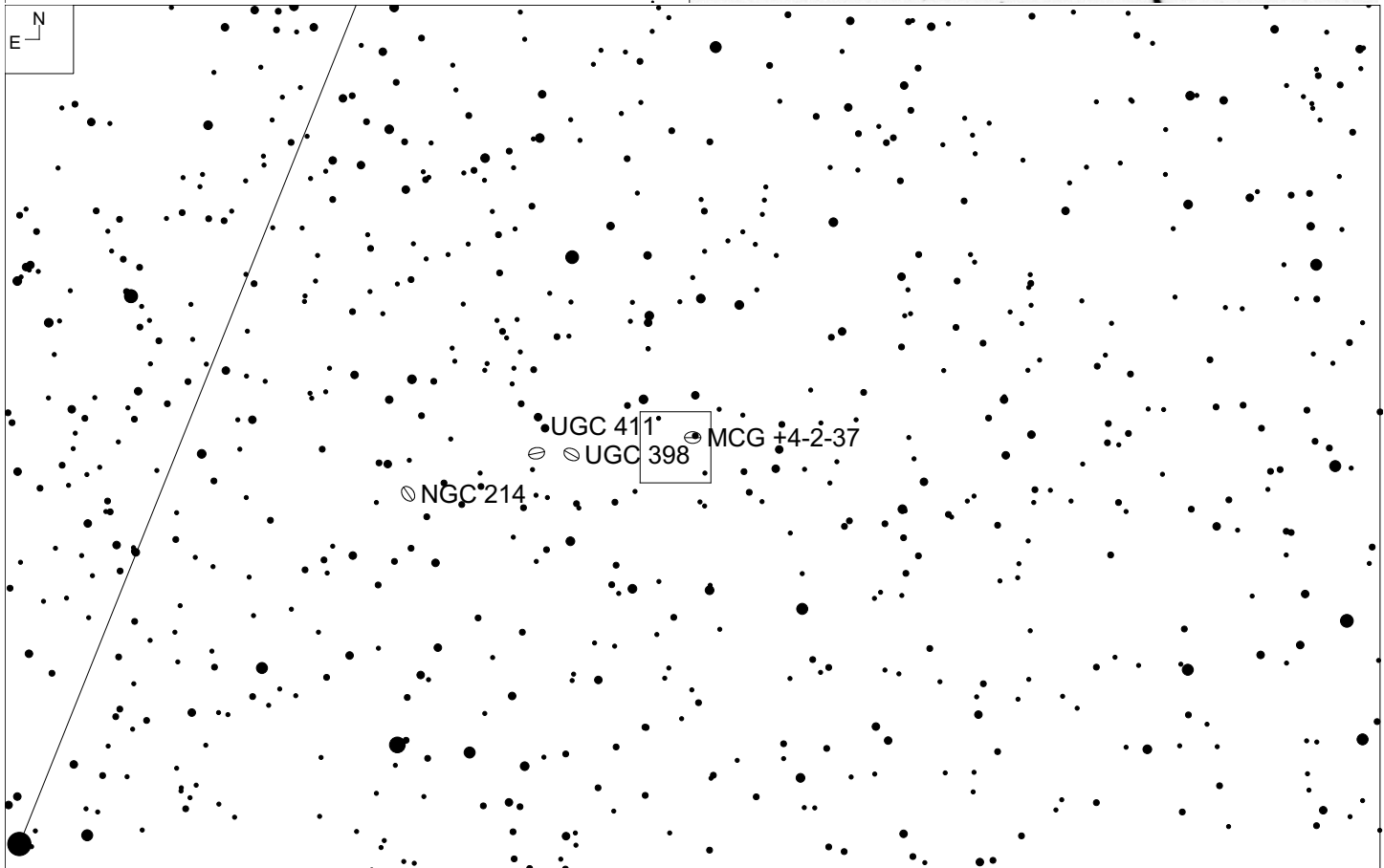
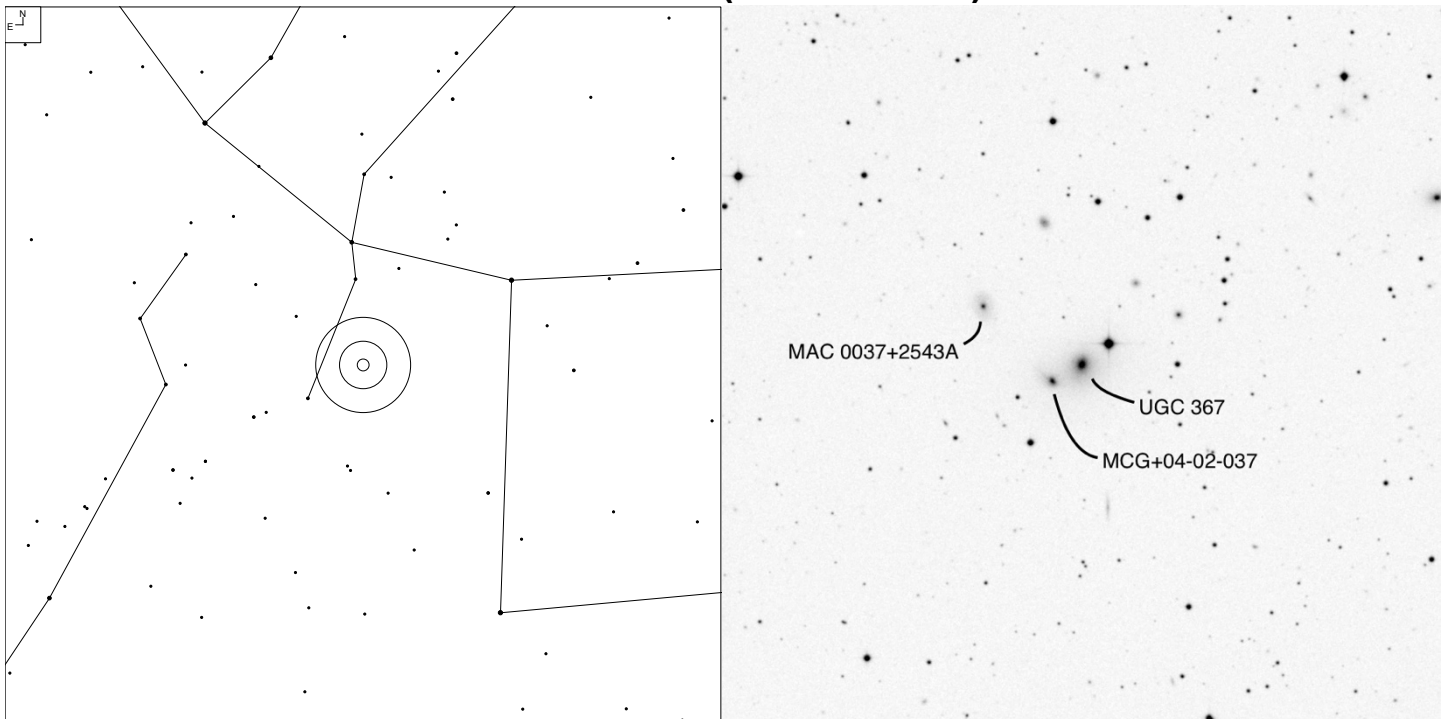


Object	RA	Dec	Mag	Size
NGC 51	00 14 34.9	+48 15 22	14.1p	1.2 x 0.9'
NGC 49			14.7p	1.1 x 1.0'
NGC 48			14.4p	1.4 x 0.9'
IC 1535	00 13 57.4	+48 09 27	15.1	1.3 x 0.3'
IC 1536			15.4	0.9 x 0.8'
IC 1534			14.8p	1.0 x 0.4'

NGC 51: Miles Paul and Astronomical League trio

IC 1535: Miles Paul trio

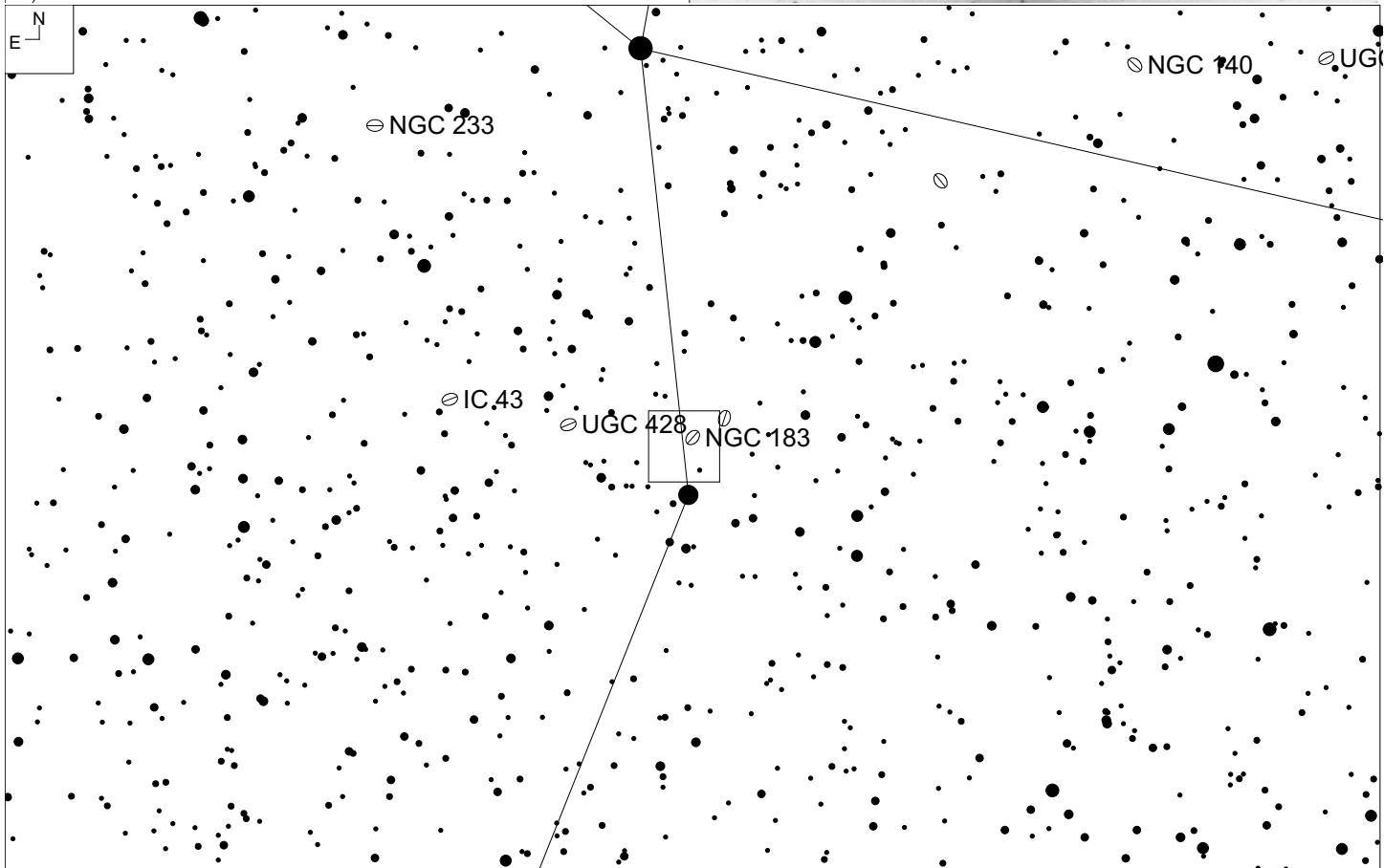
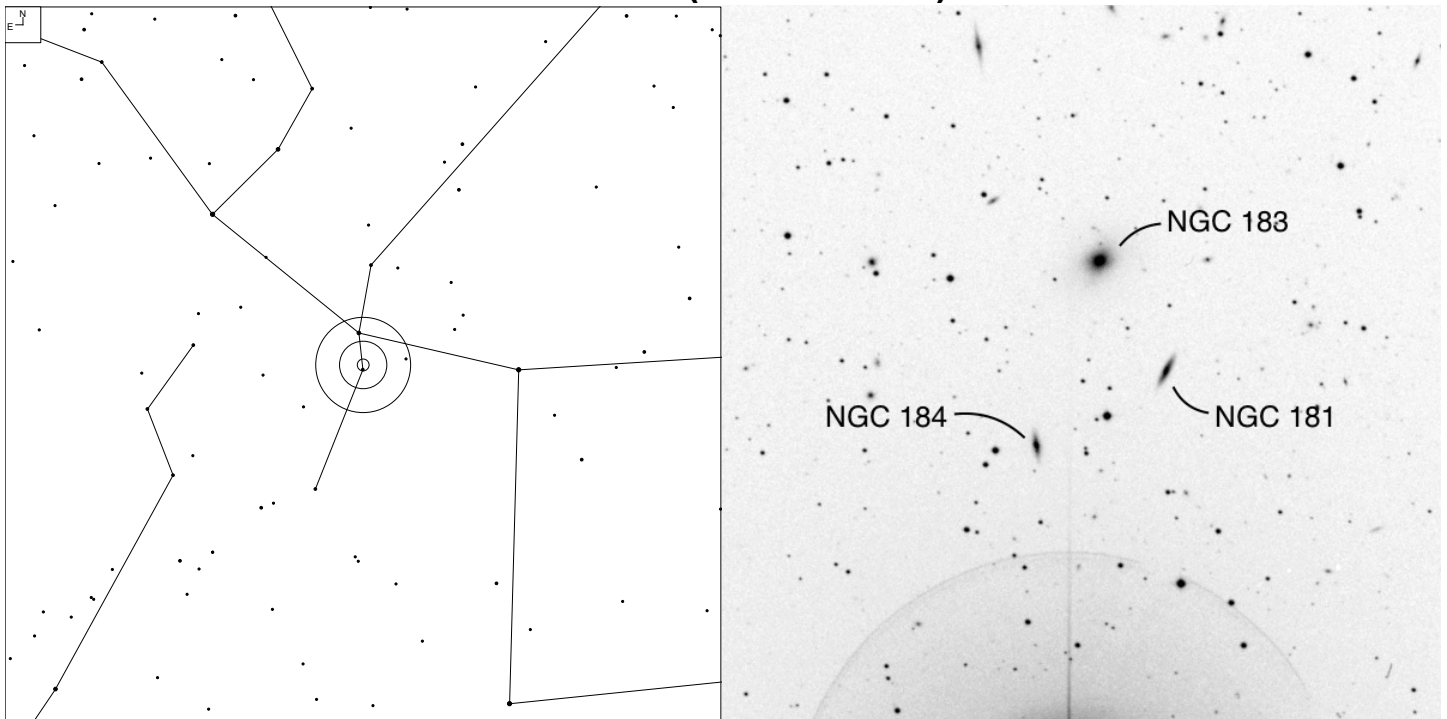
MCG+4-2-37 (Andromeda)



Object	RA	Dec	Mag	Size
MCG+4-2-37	00 37 05.5	+25 41 56	14.5	0.8 x 0.8'
UGC 367			14.9p	0.4 x 0.3'
MAC 0037+2543A			16.5	0.6 x 0.3'

Miles Paul trio

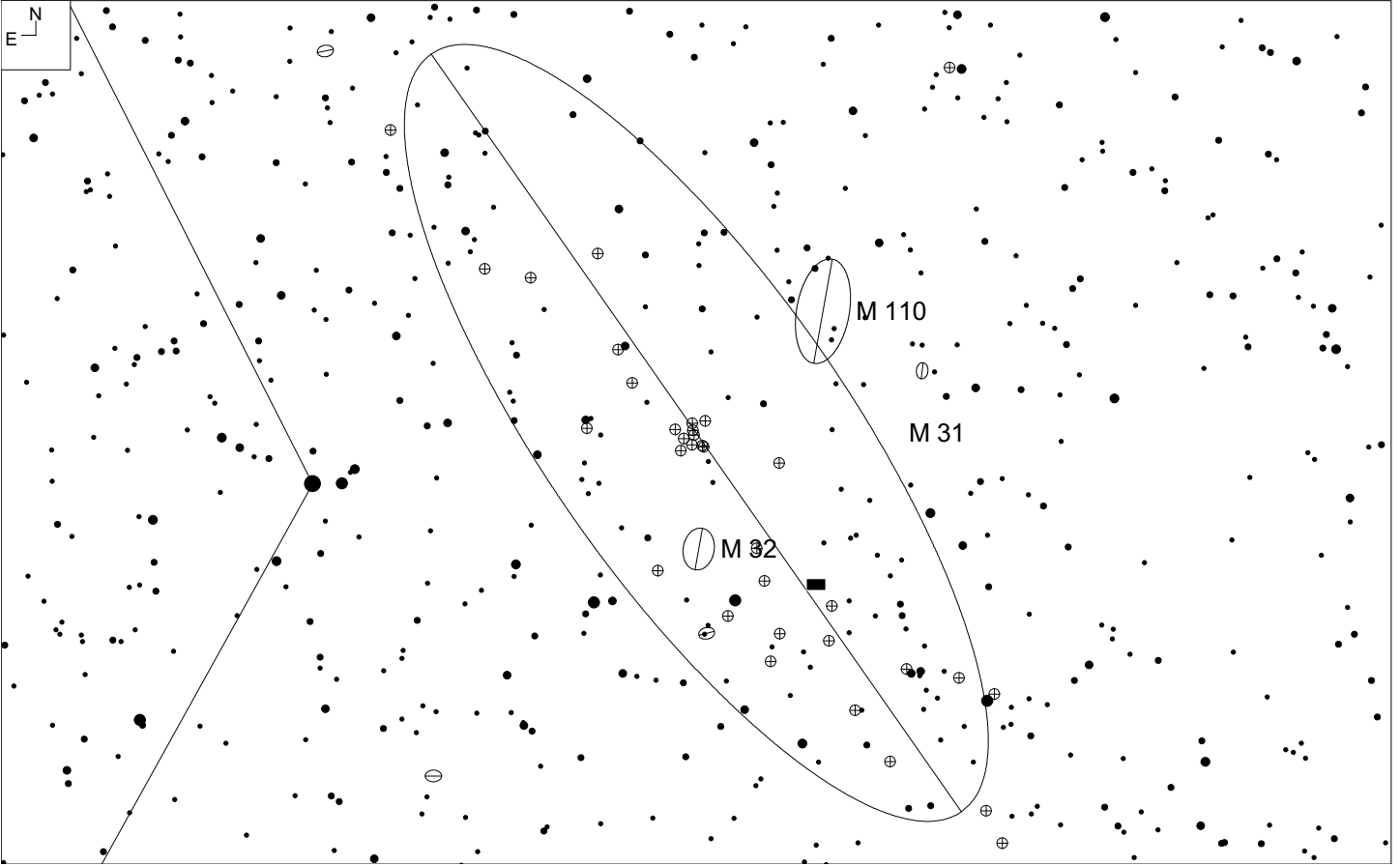
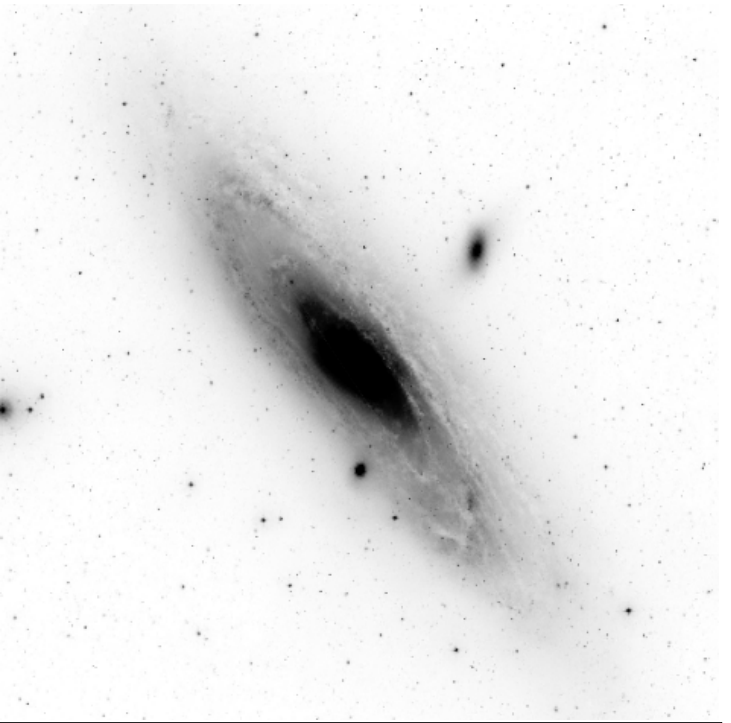
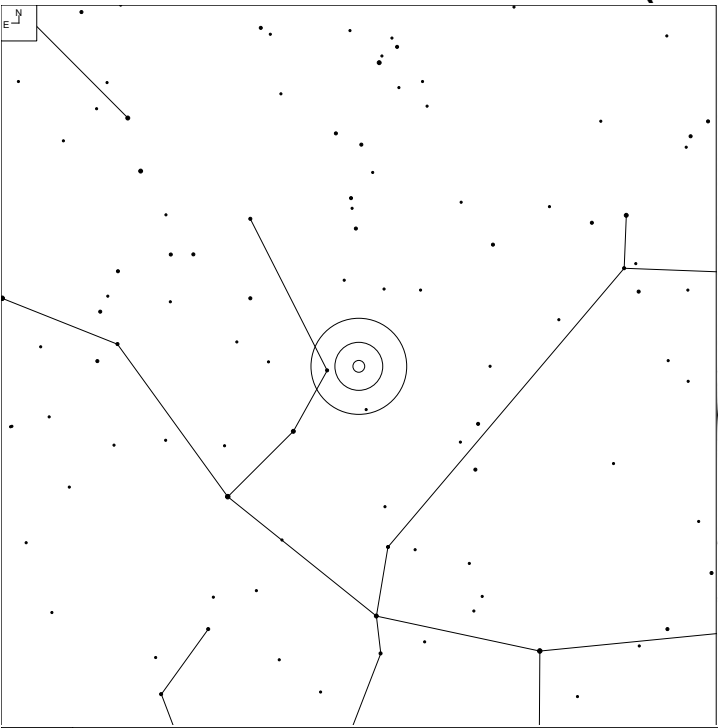
NGC 183 (Andromeda)



Object	RA	Dec	Mag	Size
NGC 183	00 38 29.1	+29 30 42	13.7b	2.1 x 1.6'
NGC 181			15.5	1.0 x 0.3'
NGC 184			15.6p	0.8 x 0.3'

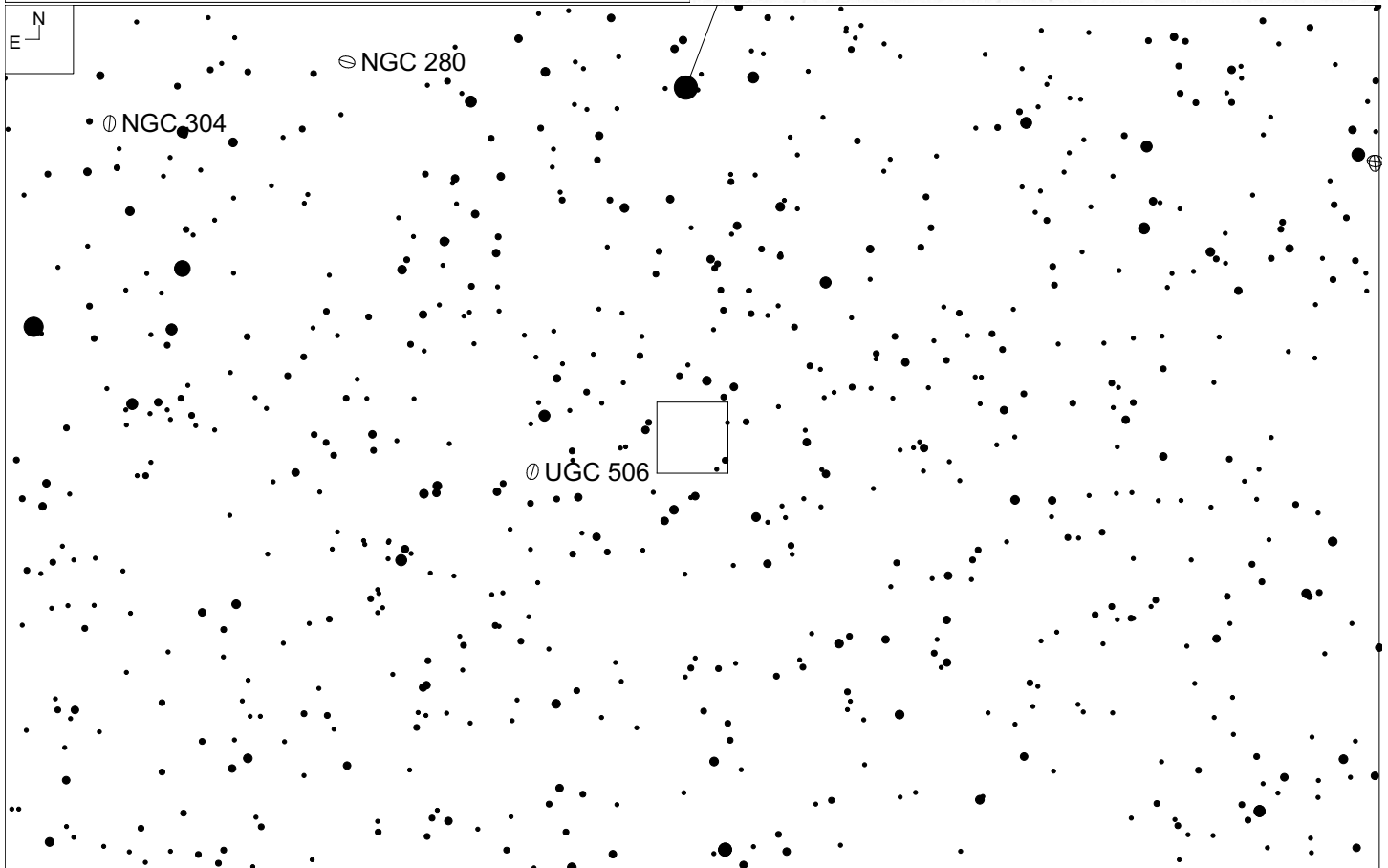
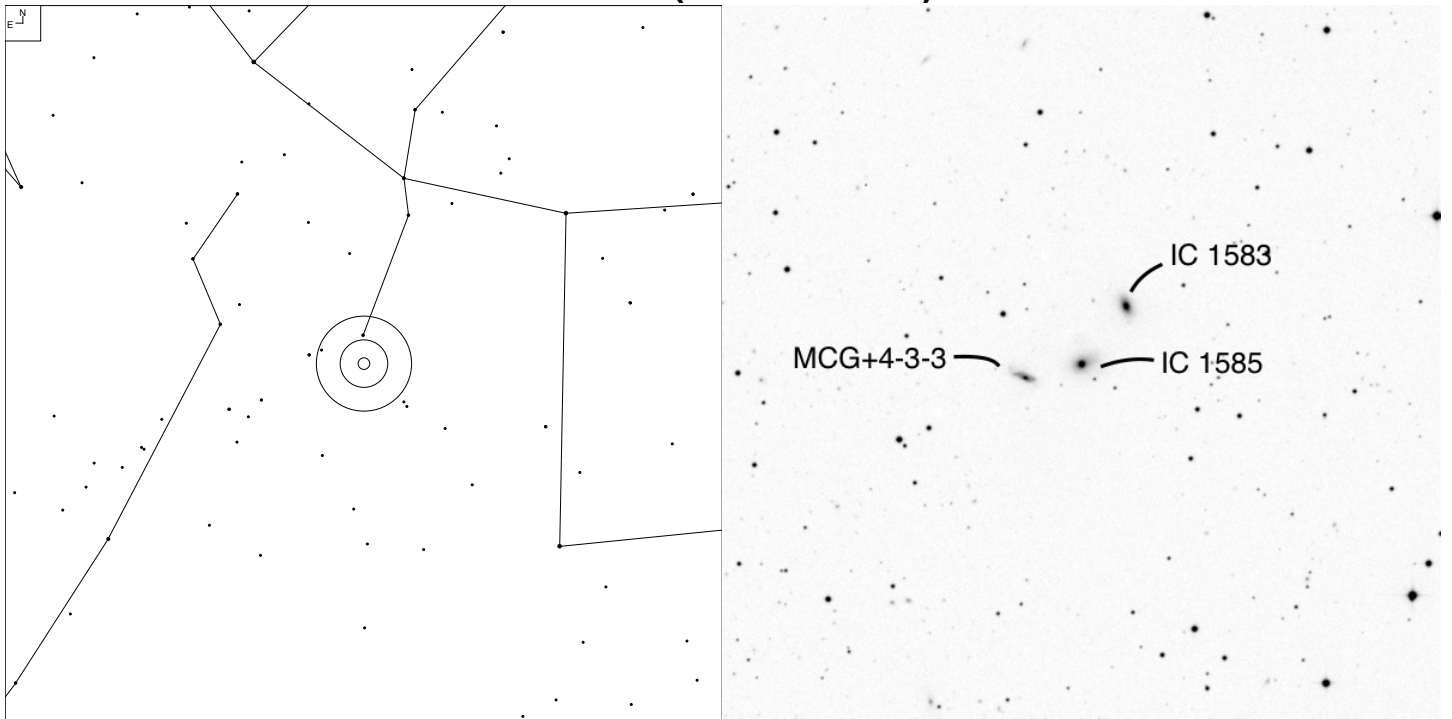
Miles Paul trio

M-31 (Andromeda)



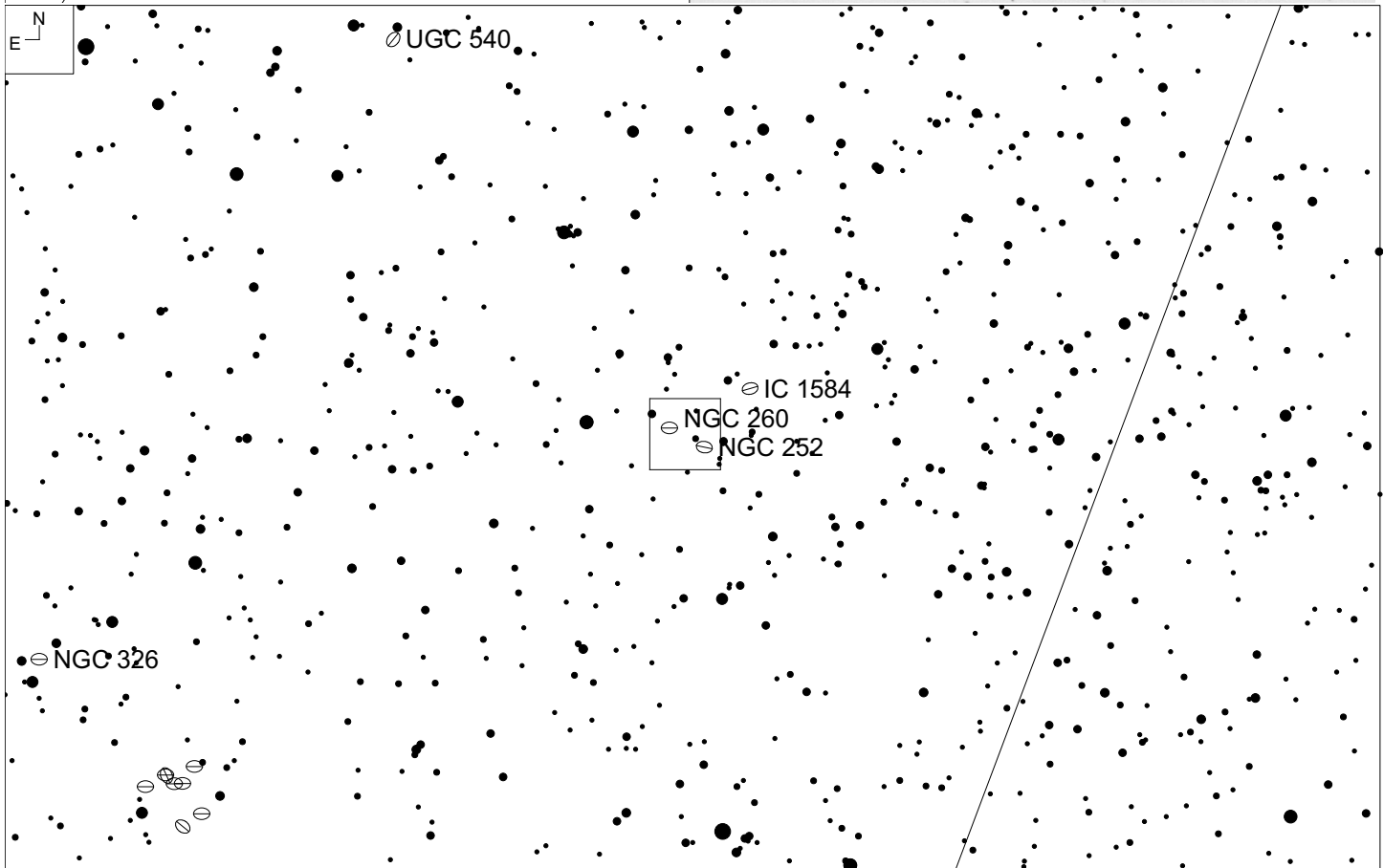
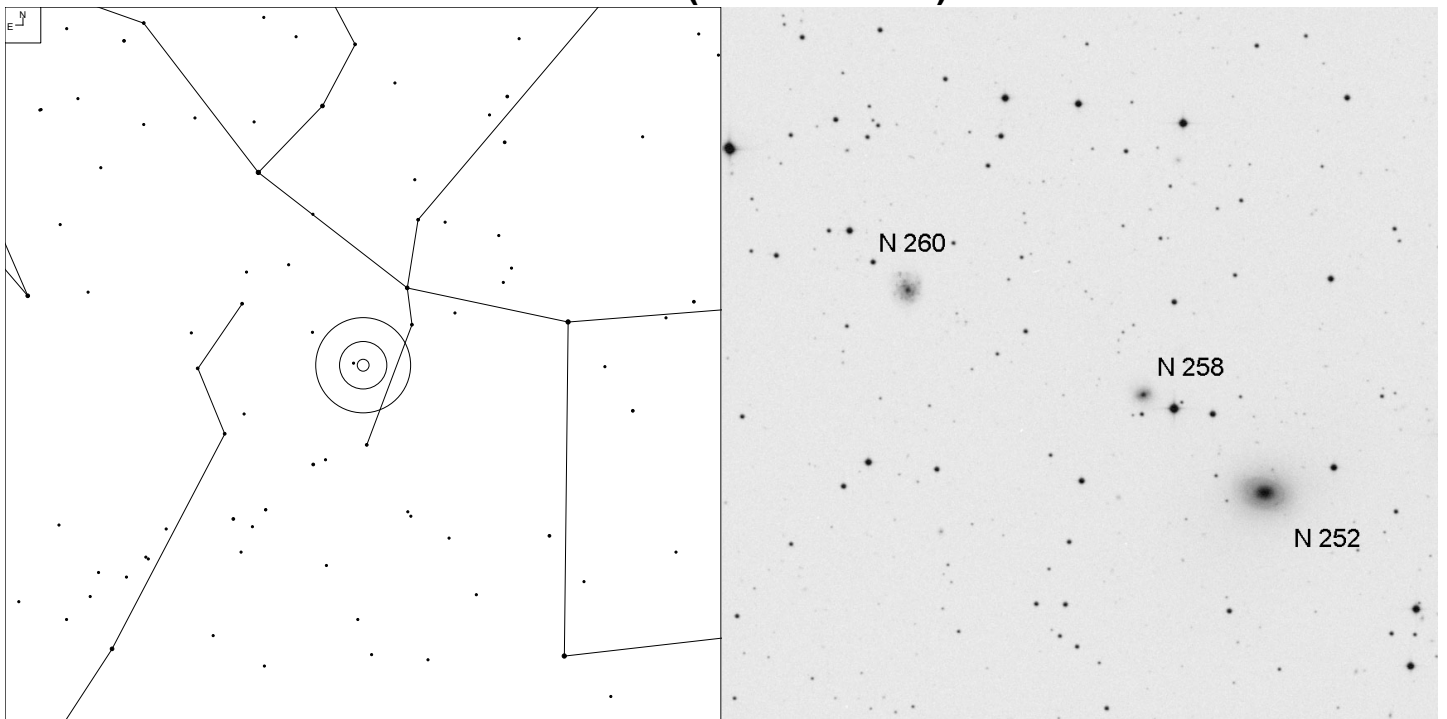
Object (KTG 1)	RA	Dec	Mag	Size
M-31	00 42 44.4	+41 16 08	4.4b	192 x 62'
M-32			9.0b	9 x 7'
M-110			8.9b	22 x 11'

IC 1583 (Andromeda)



Object	RA	Dec	Mag	Size
IC 1583	00 47 10.3	+23 04 26	15.2	0.6 x 0.3'
IC 1585			15.5	0.8 x 0.5'
MCG+4-3-3			16.9	0.6 x 0.2'

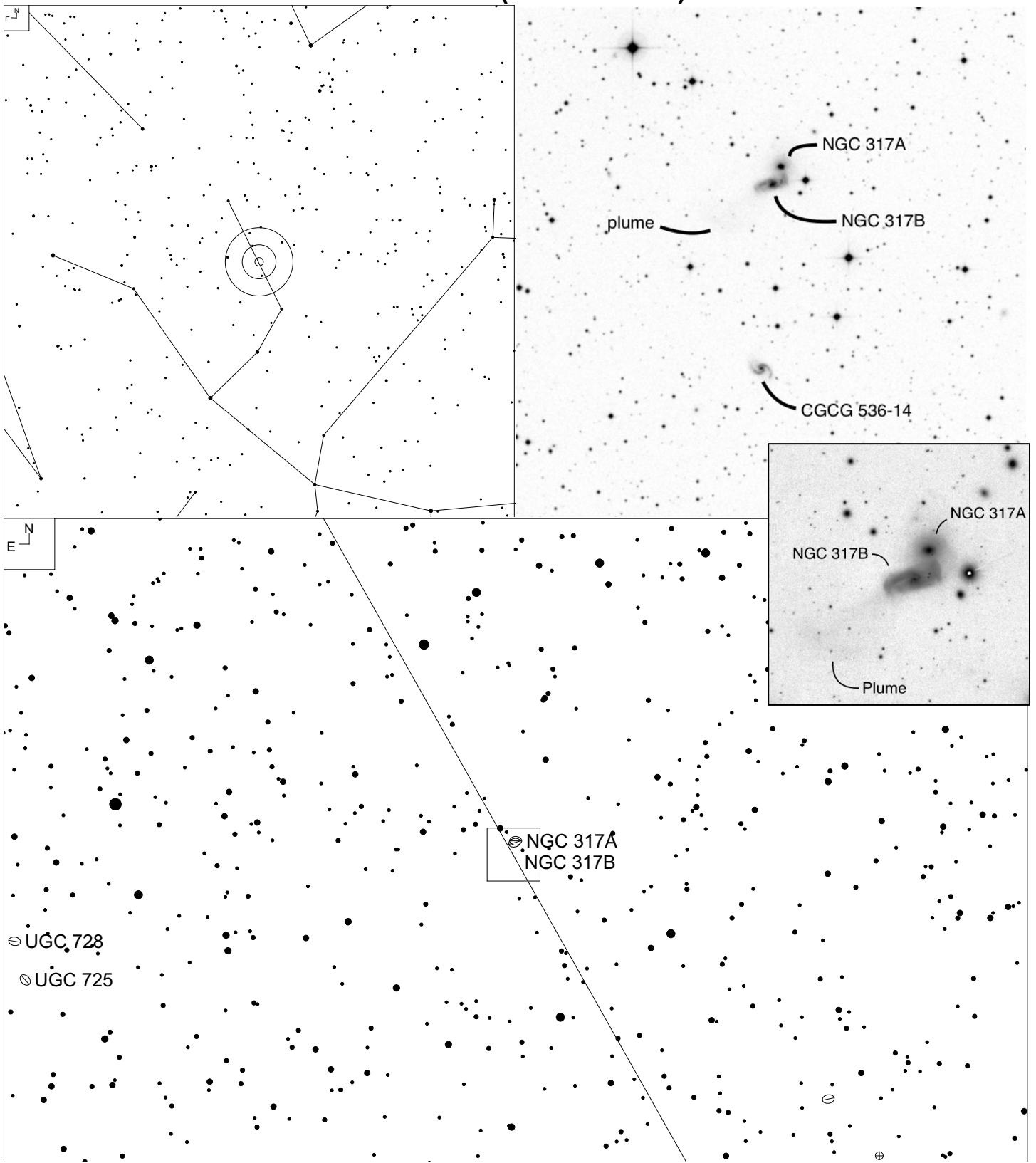
NGC 252 (Andromeda)



Object	RA	Dec	Mag	Size
NGC 252	00 48 01.7	+27 37 24	13.4p	1.5 x 1.0'
NGC 258			15.6	0.5 x 0.4'
NGC 260			14.2p	0.9'

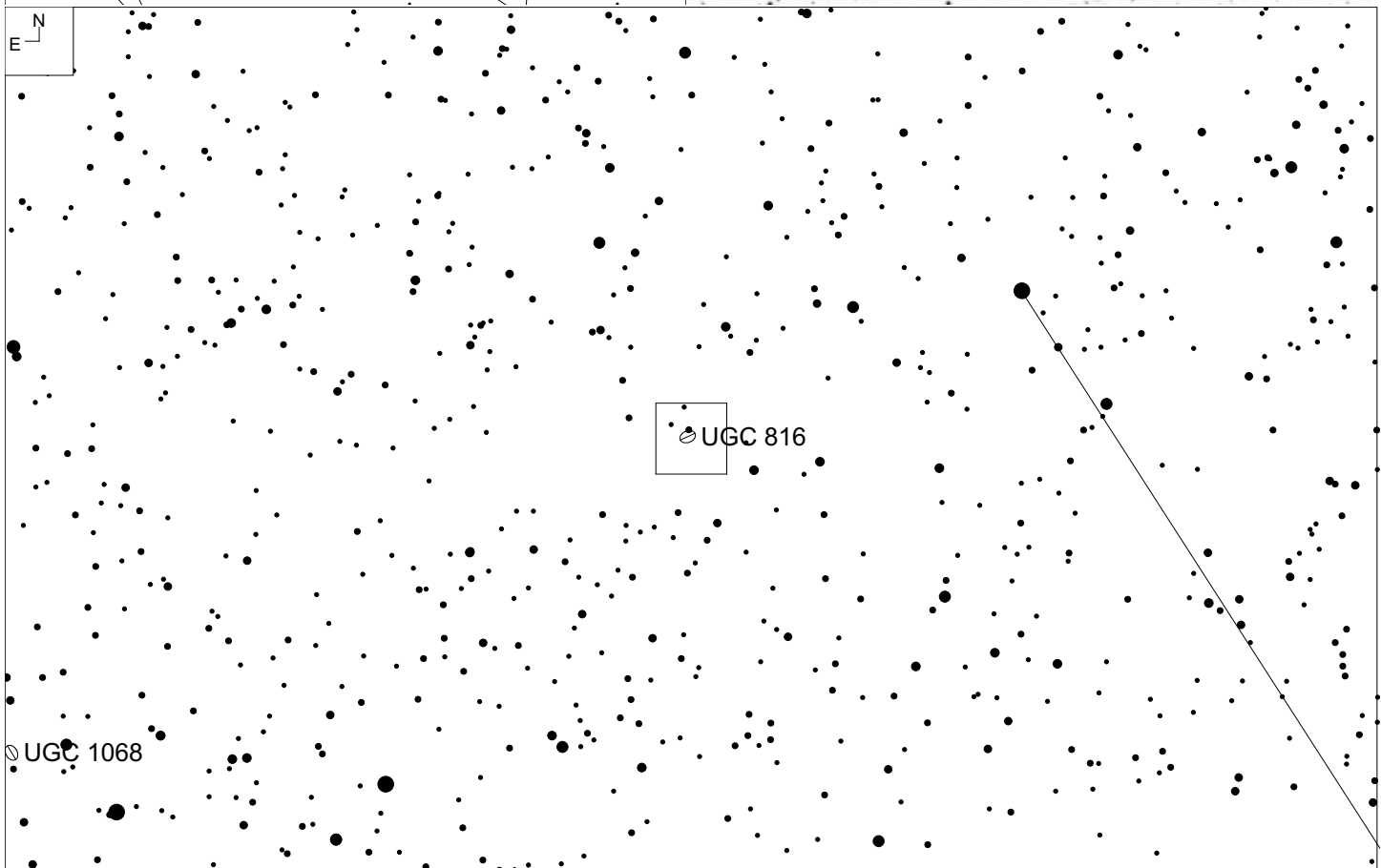
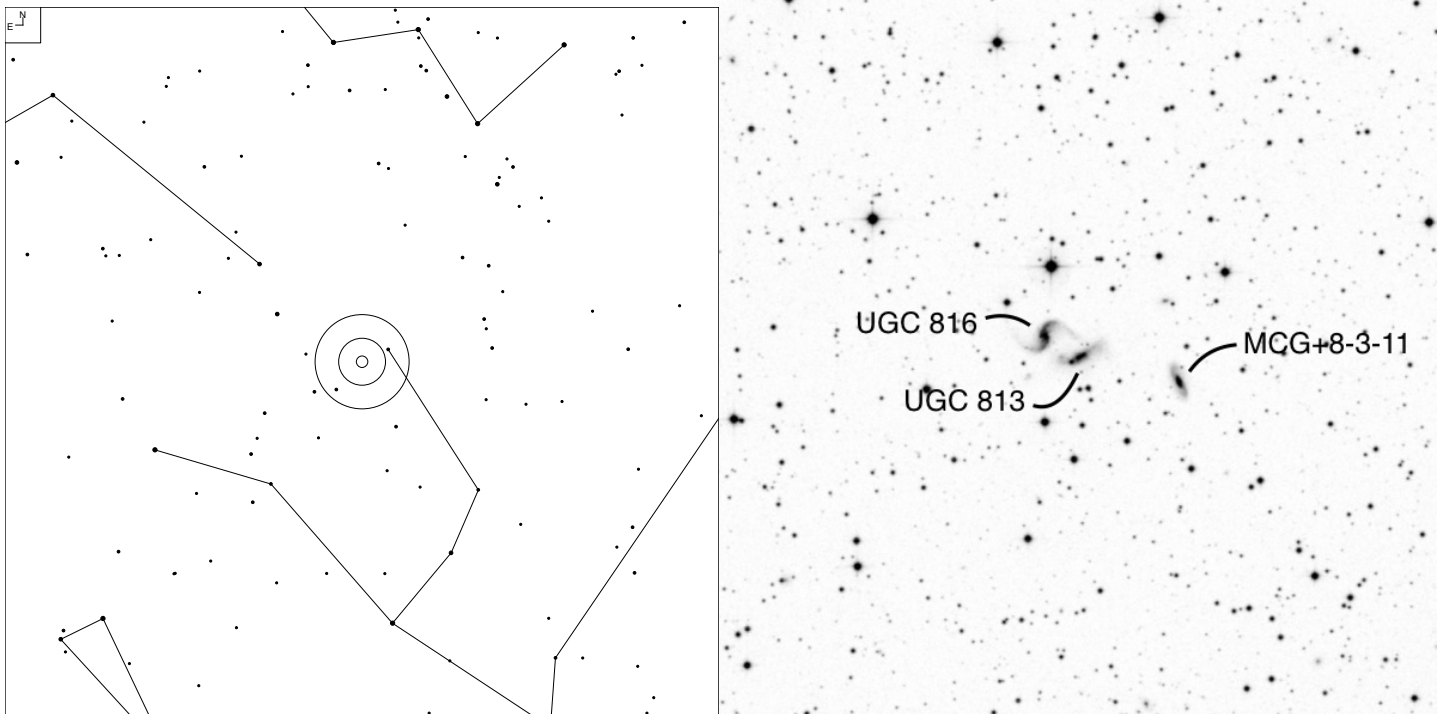
Miles Paul trio

NGC 317A (Andromeda)



Object (KTG 2)	RA	Dec	Mag	Size
NGC 317A	00 57 39.2	+43 48 03	14.3	1.3 x 1.2'
NGC 317B			13.9	1.1 x 0.5'
CGCG 536-14			15.1b	0.8 x 0.5'

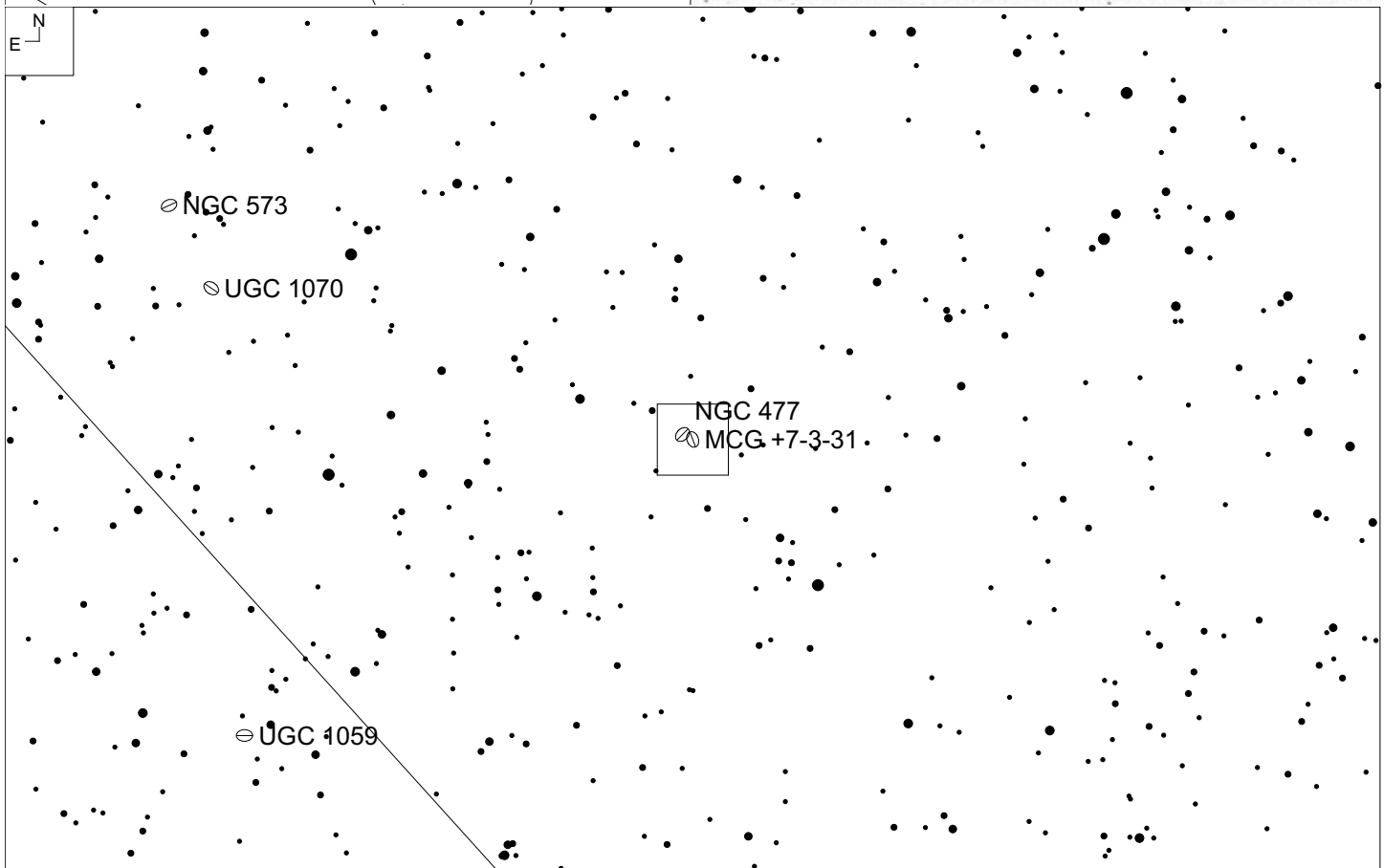
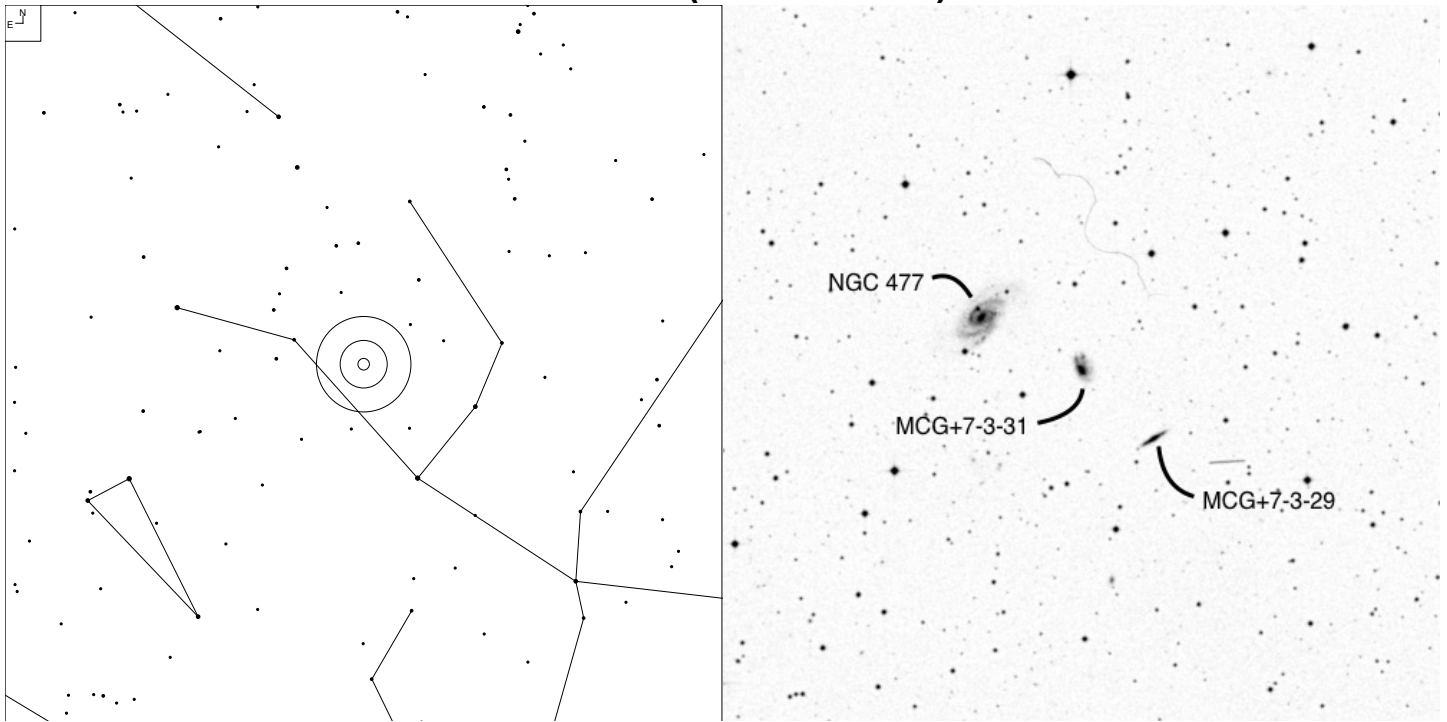
MCG+8-3-11 (Andromeda)



Object (KTG 4)	RA	Dec	Mag	Size
MCG+8-3-11	01 16 04.5	+46 43 50	15.1	0.9 x 0.4'
UGC 813			14.8p	1.2 x 0.5'
UGC 816			14.2p	1.9 x 0.9'

Miles Paul trio

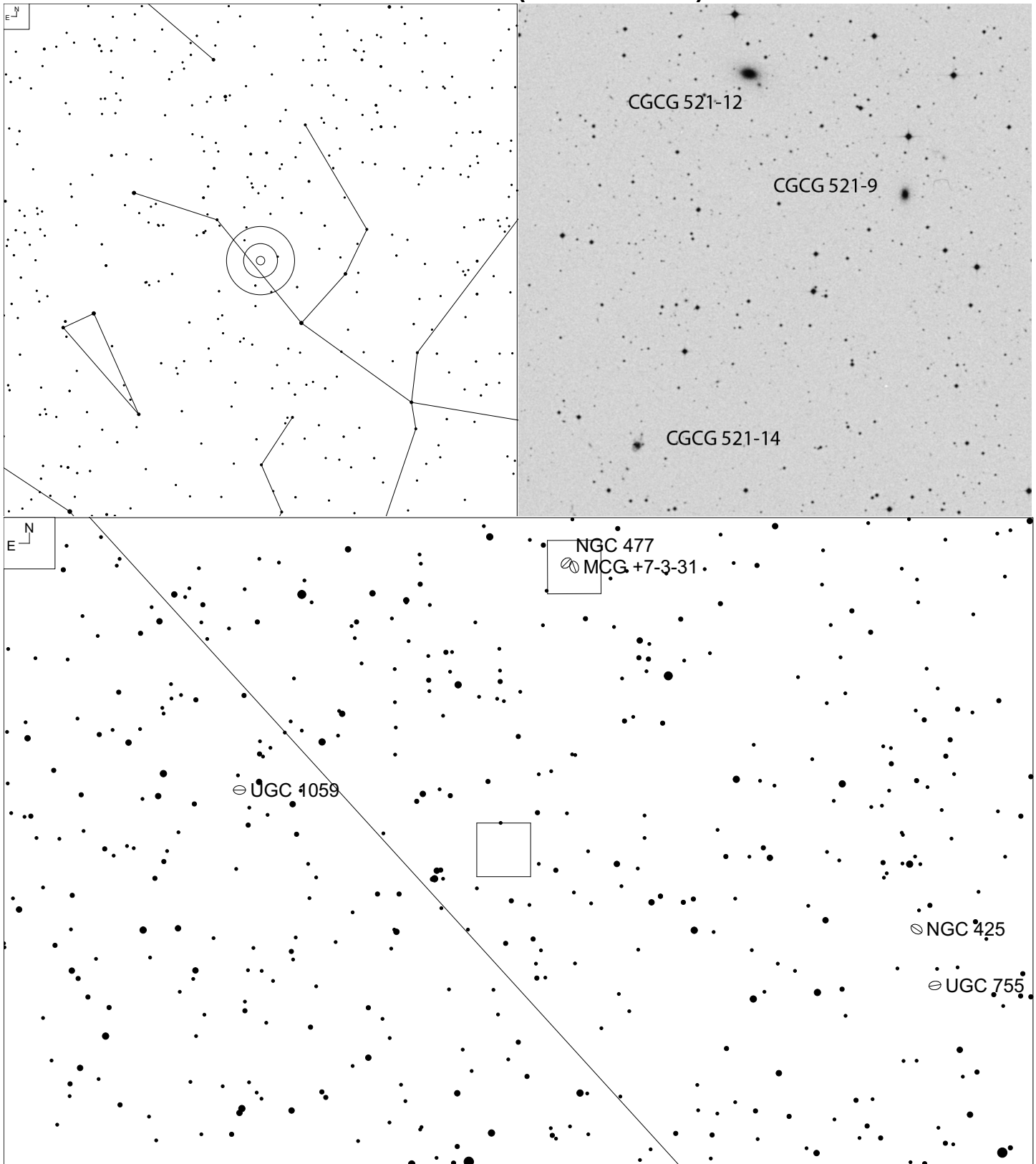
NGC 477 (Andromeda)



Object	RA	Dec	Mag	Size
MCG+7-3-29	01 21 01.3	+40 26 48	15.0	0.7 x 0.2'
MCG+7-3-31			14.5	0.9 x 0.4'
NGC 477			13.7p	2.1 x 1.1'

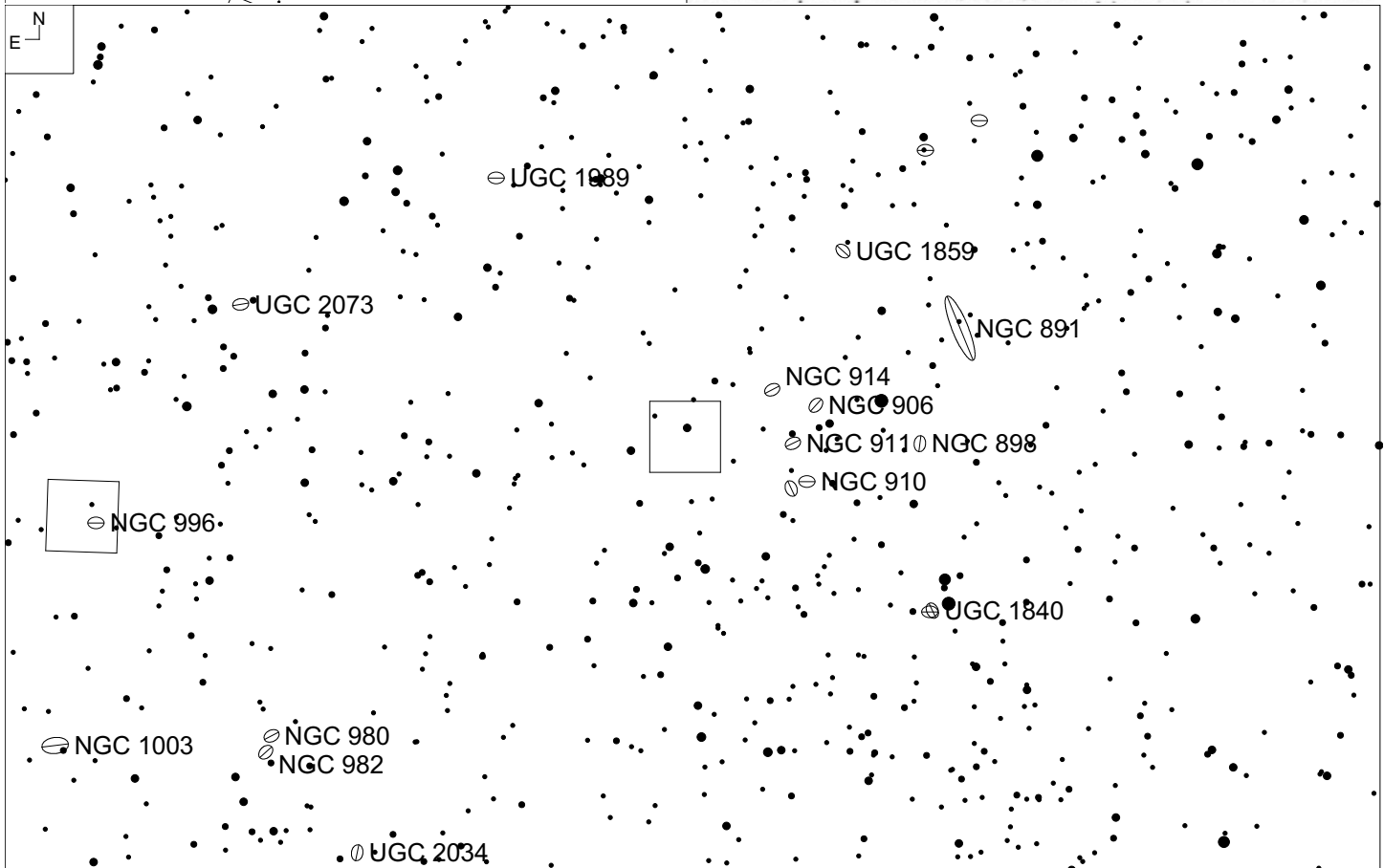
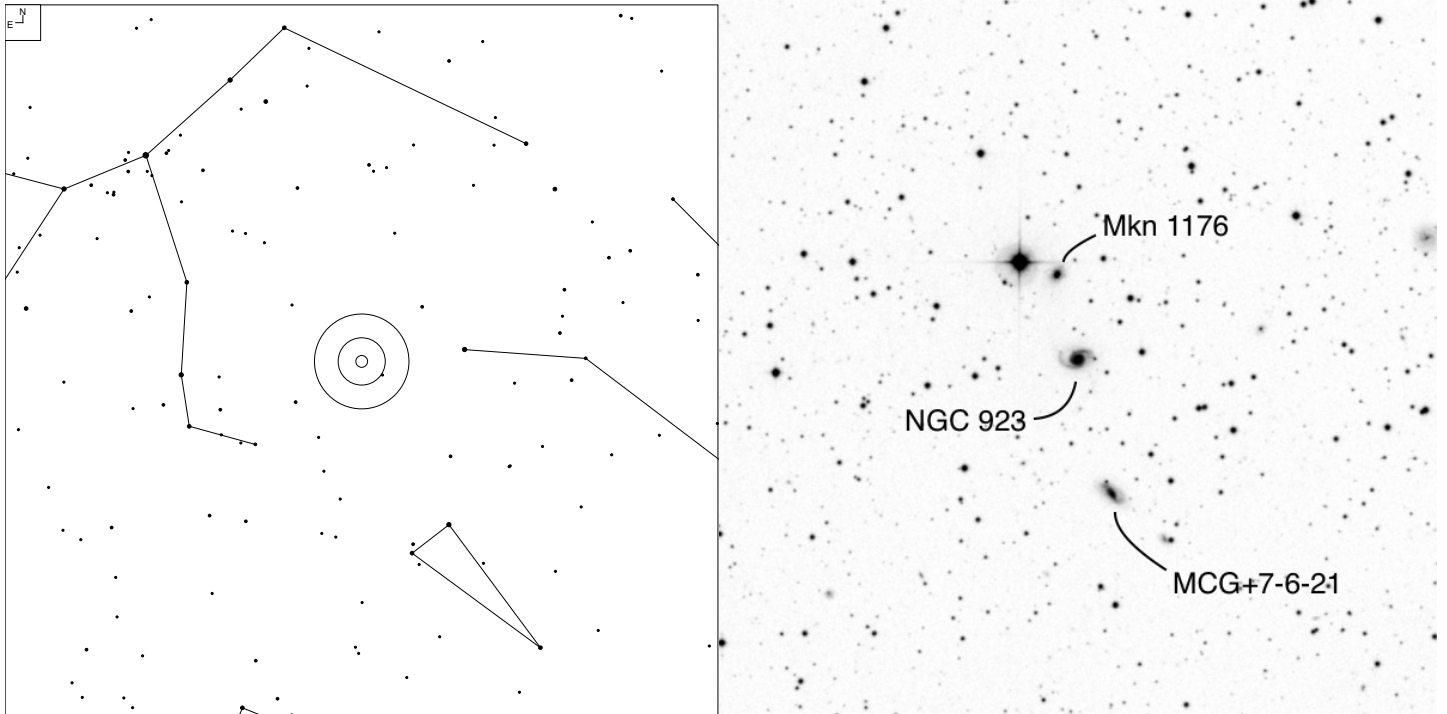
Miles Paul trio

CGCG 521-9 (Andromeda)



Object (KTG 6)	RA	Dec	Mag	Size
CGCG 521-9	01 22 30.6	+39 11 57	15.2	0.4 x 0.3'
CGCG 521-12			14.7	0.7 x 0.6'
CGCG 521-14			15.3	0.3 x 0.3'

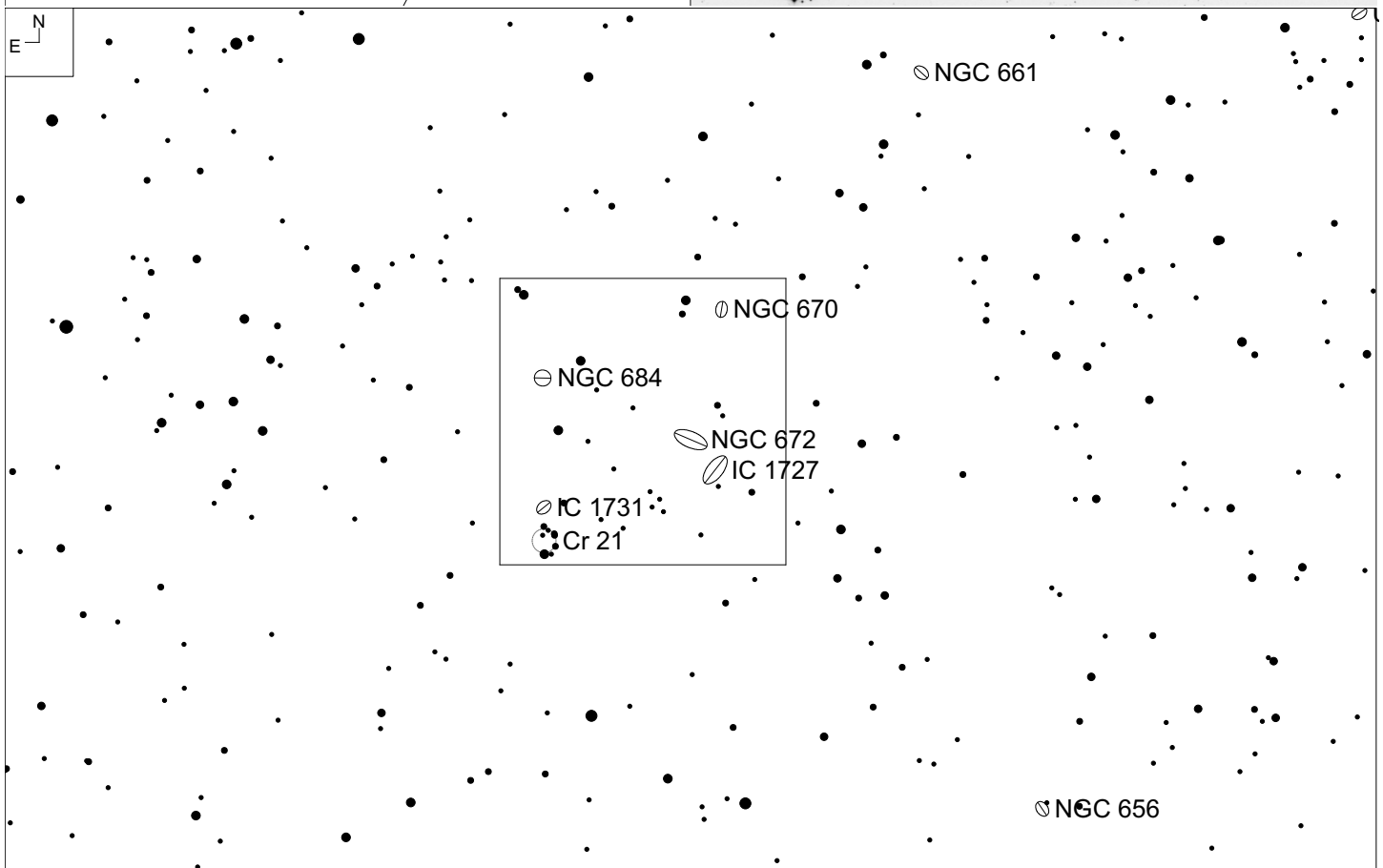
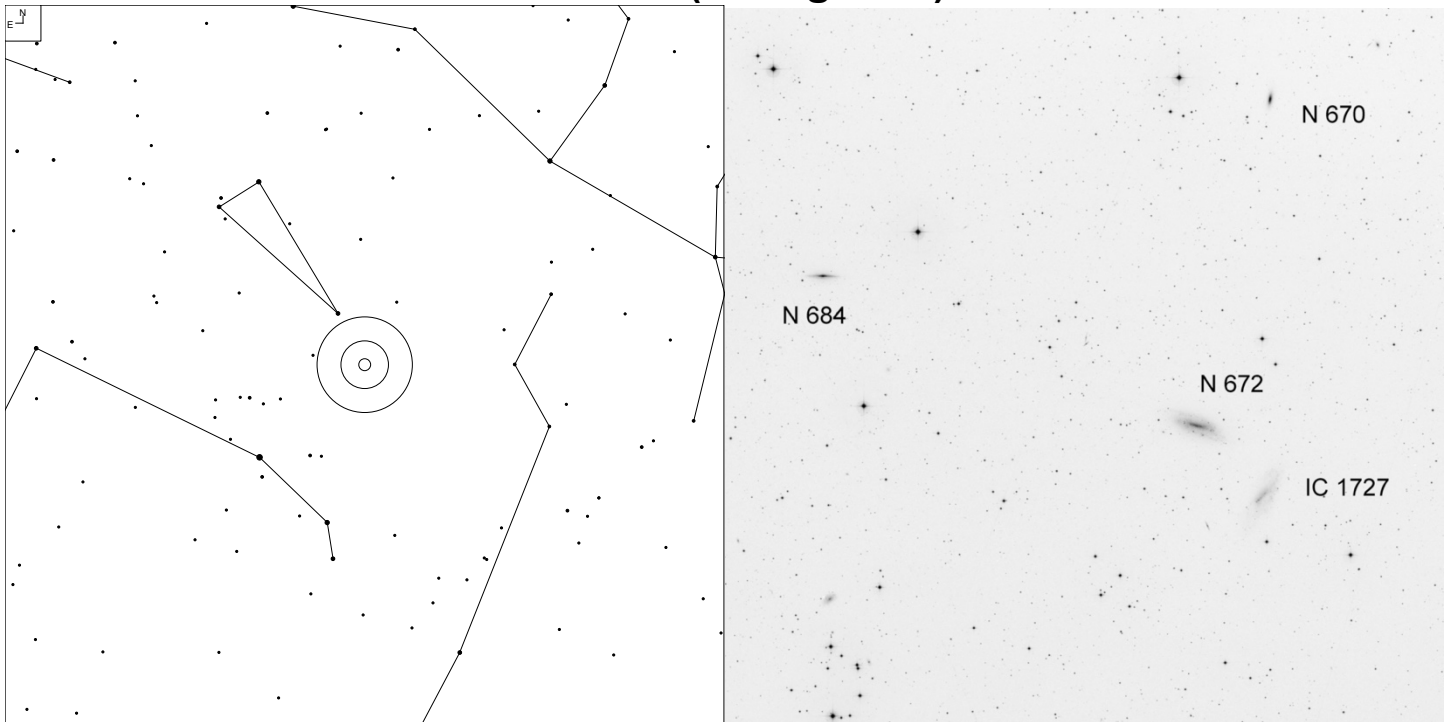
NGC 923 (Andromeda)



Object	RA	Dec	Mag	Size
NGC 923	02 27 34.6	+41 58 41	14.5p	1.0 x 0.7'
MCG +7-6-21			15.7	1.0 x 0.5'
Mkn 1176			15.2p	0.6 x 0.4'

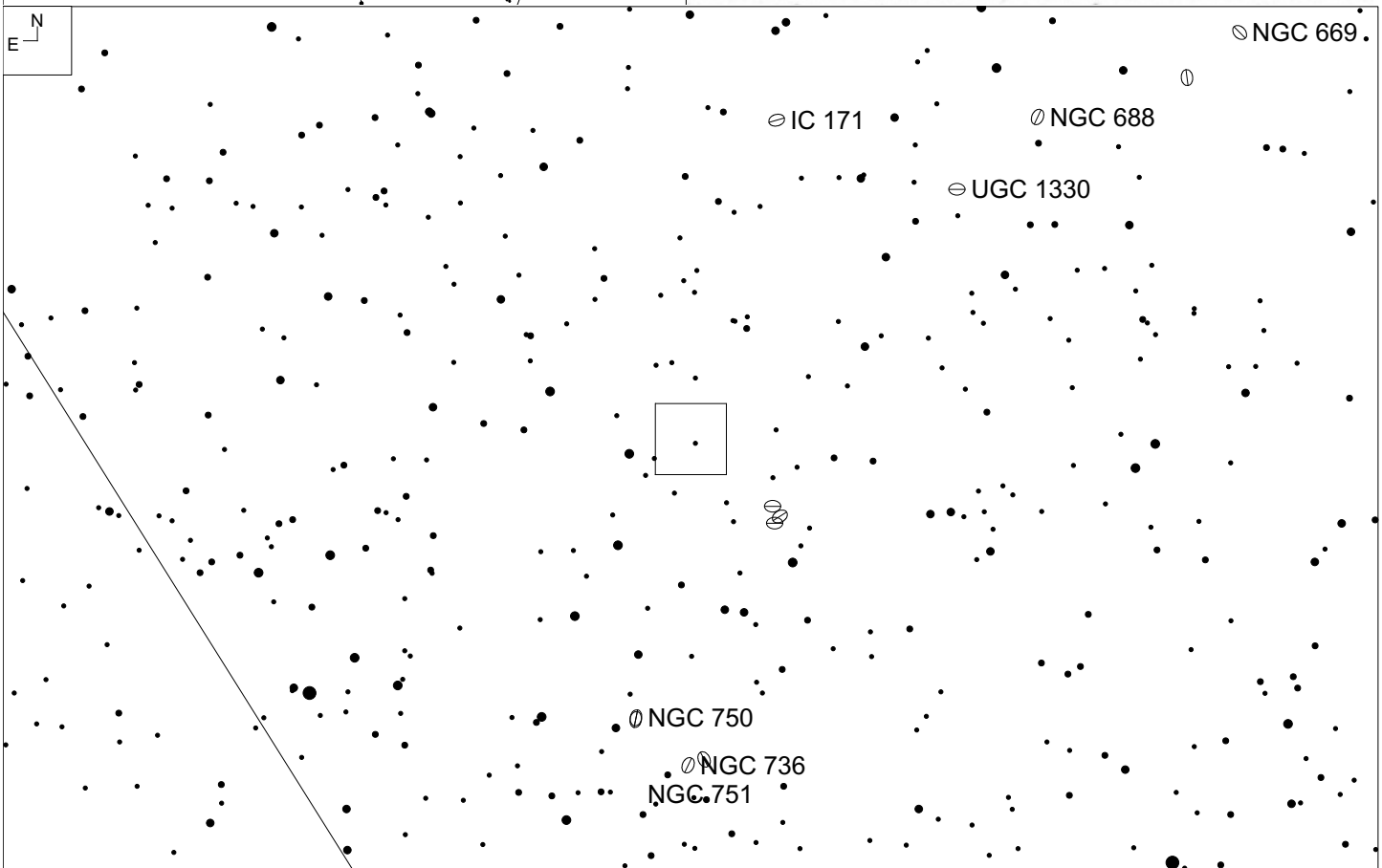
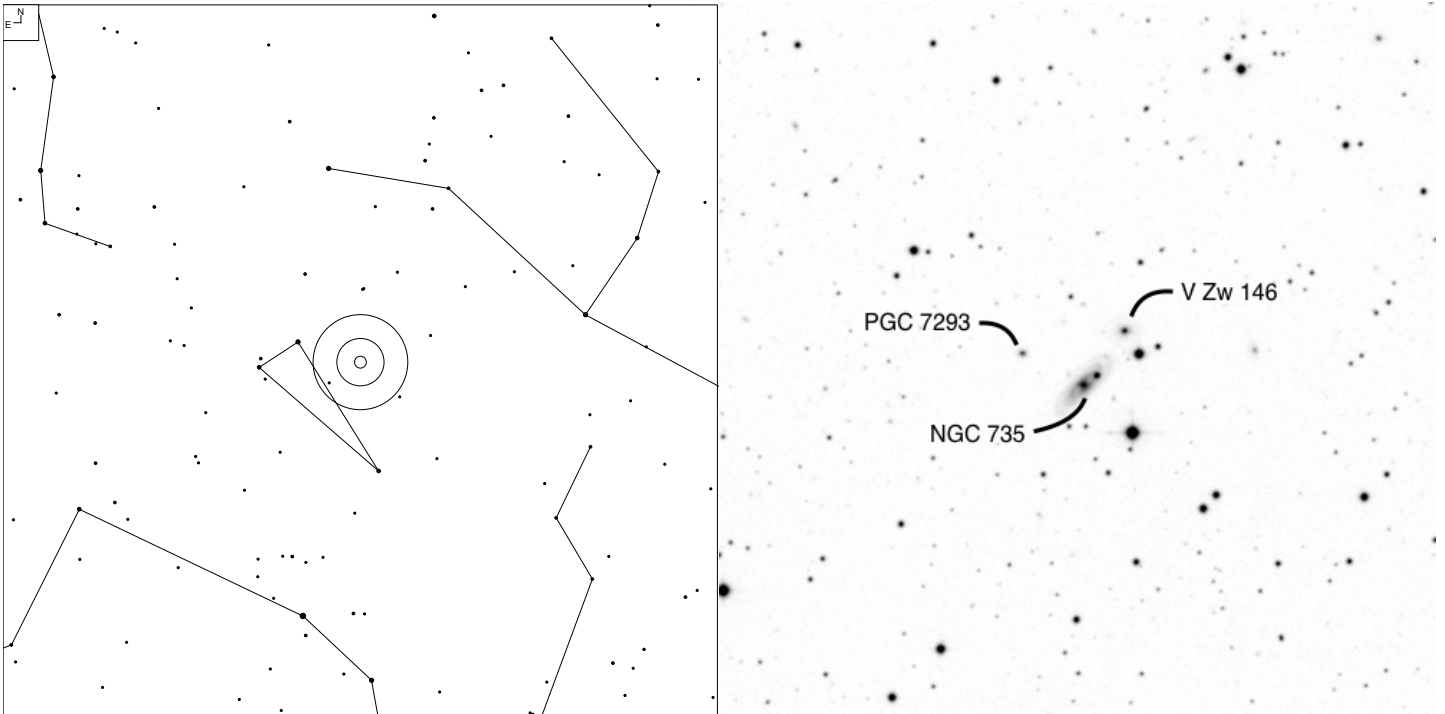
Miles Paul trio

NGC 672 (Triangulum)



Object (KTG 8)	RA	Dec	Mag	Size
NGC 672	01 47 54.3	+27 25 59	11.5b	7.3 x 2.5'
NGC 684			13.3b	3.4 x 0.6'
IC 1727			12.1b	6.9 x 3.0'
NGC 670			13.6b	2.2 x 0.9

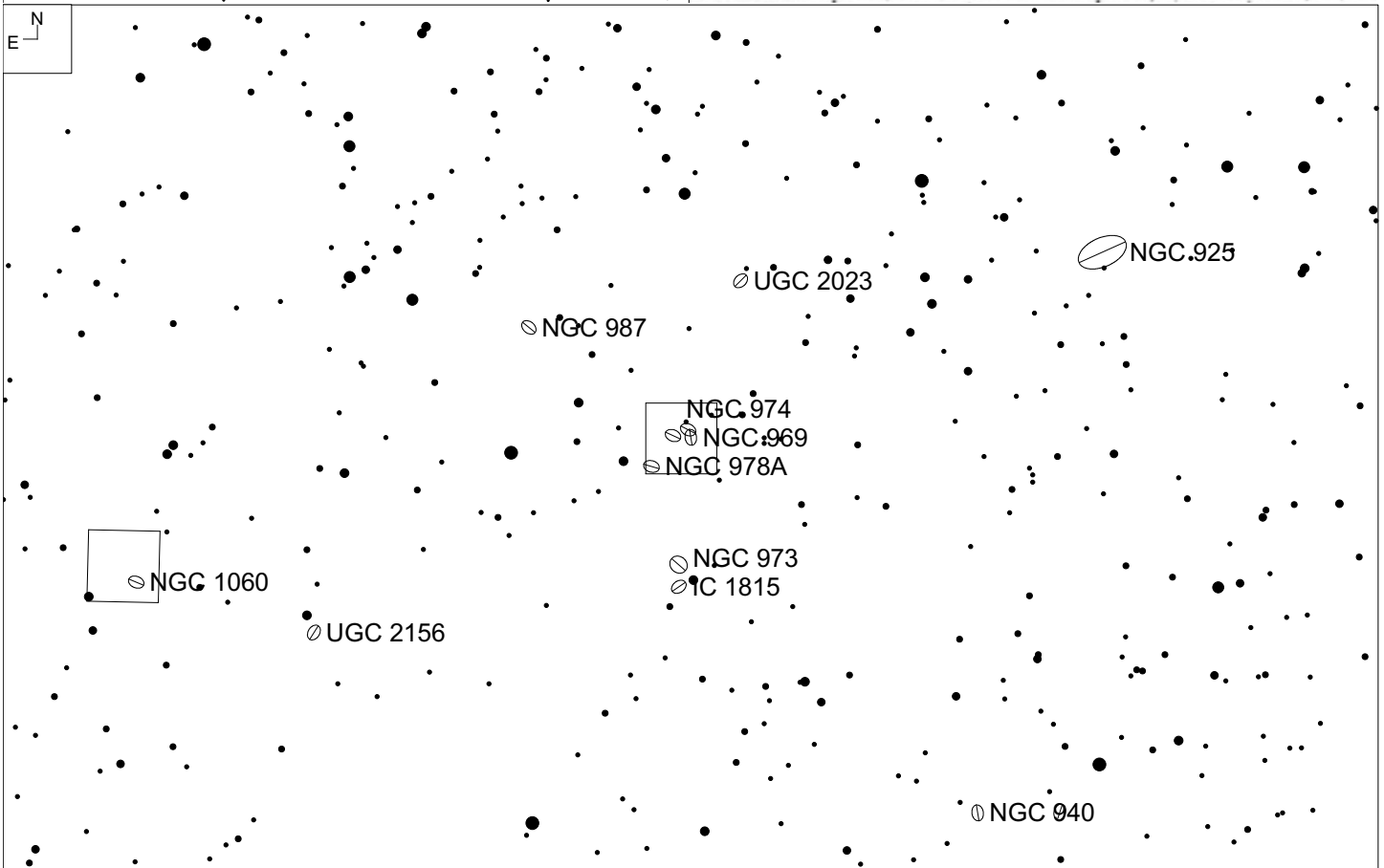
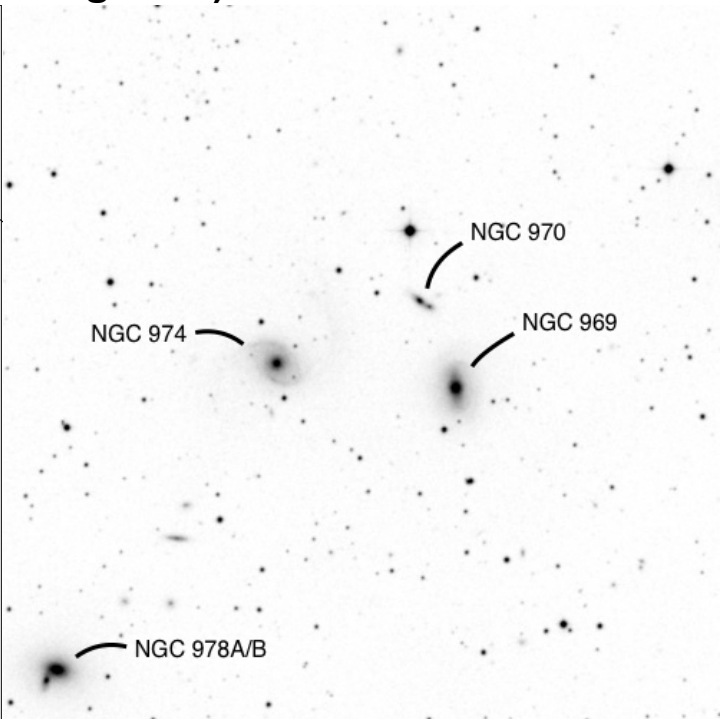
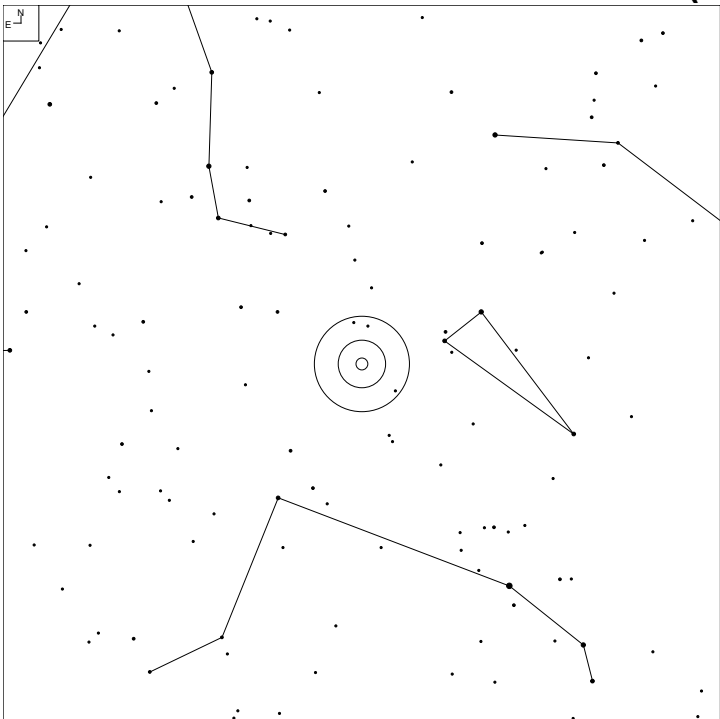
NGC 735 (Triangulum)



Object	RA	Dec	Mag	Size
NGC 735	01 56 38.1	+34 10 33	14.1b	1.8 x 0.8'
PGC 7293			16.4b	0.2'
V Zw 146			16.4	0.2'

Miles Paul trio

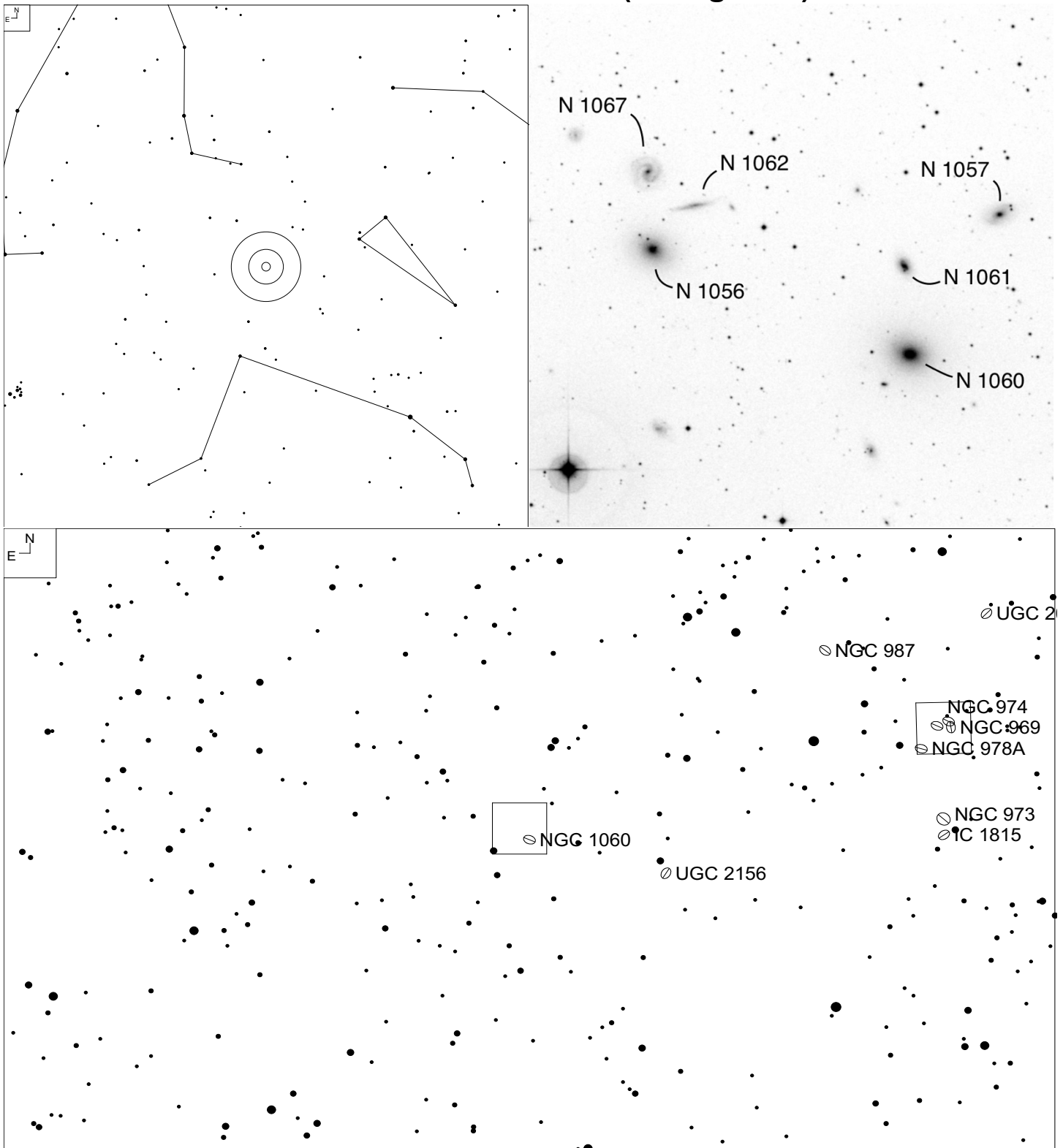
NGC 969 (Triangulum)



Object	RA	Dec	Mag	Size
NGC 969	02 34 08.0	+32 56 51	13.3p	1.7 x 1.2'
NGC 970			15.7	0.7 x 0.2'
NGC 974			13.5p	1.7 x 1.2'
NGC 978A			13.2	1.4 x 0.9'

Miles Paul trio

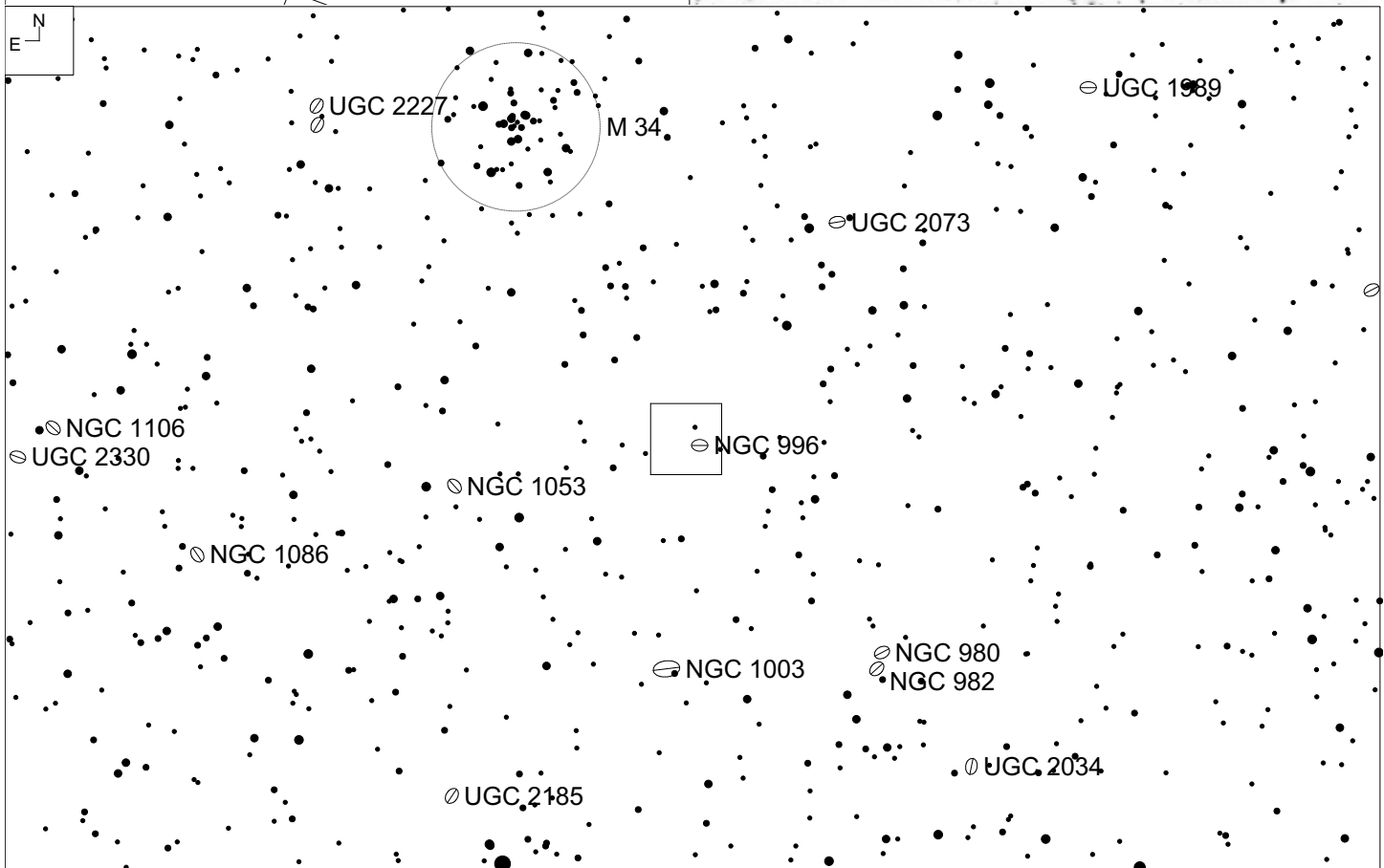
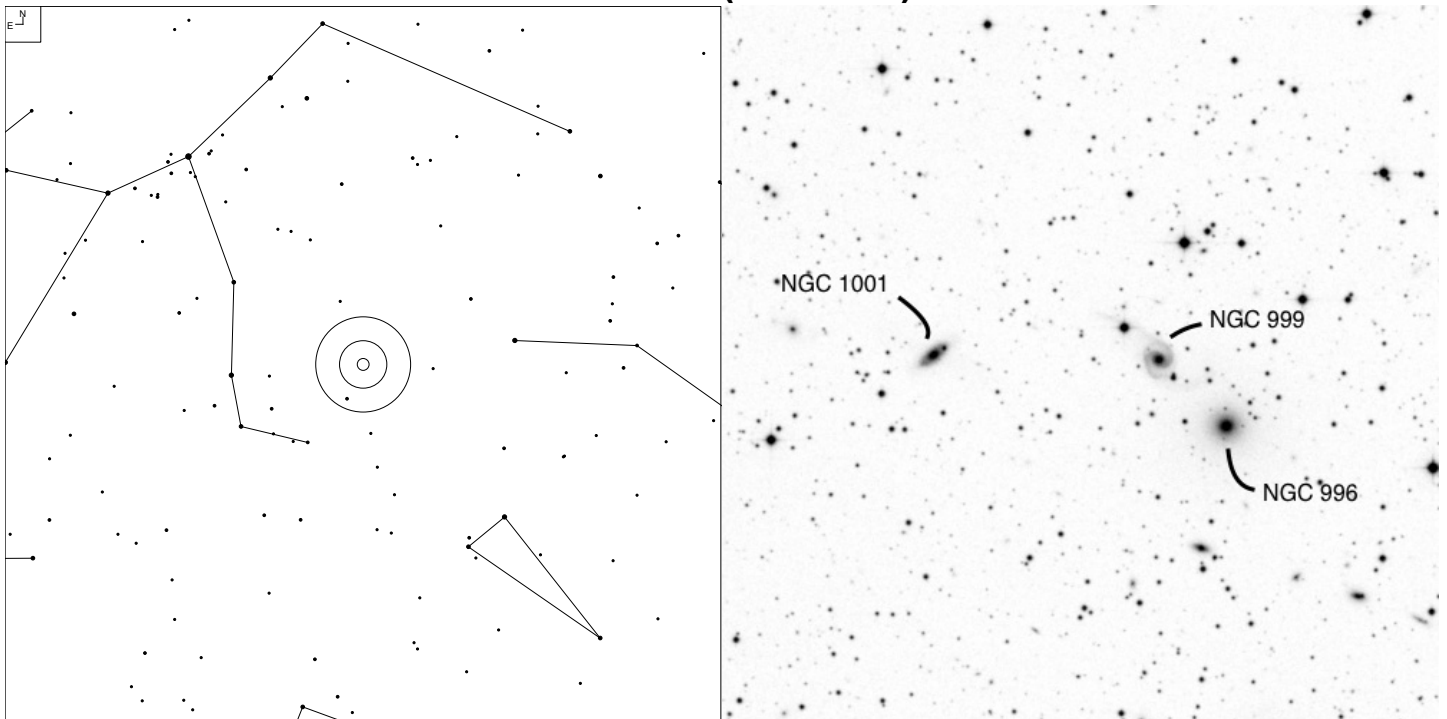
NGC 1060 and NGC 1066 (Triangulum)



Object	RA	Dec	Mag	Size
NGC 1060	02 43 15.1	+32 25 29	11.8v	2.3 x 1.7'
NGC 1061			15.0p	1.0 x 0.7'
NGC 1057			15.2p	1.7 x 0.8'
NGC 1066	02 43 50.0	+32 28 30	14.3p	1.8 x 1.5'
NGC 1062			15.4p	1.7 x 0.3'
NGC 1067			14.6b	1.2 x 1.0'

NGC 1060 and 1066: Miles Paul and Astronomical League trio

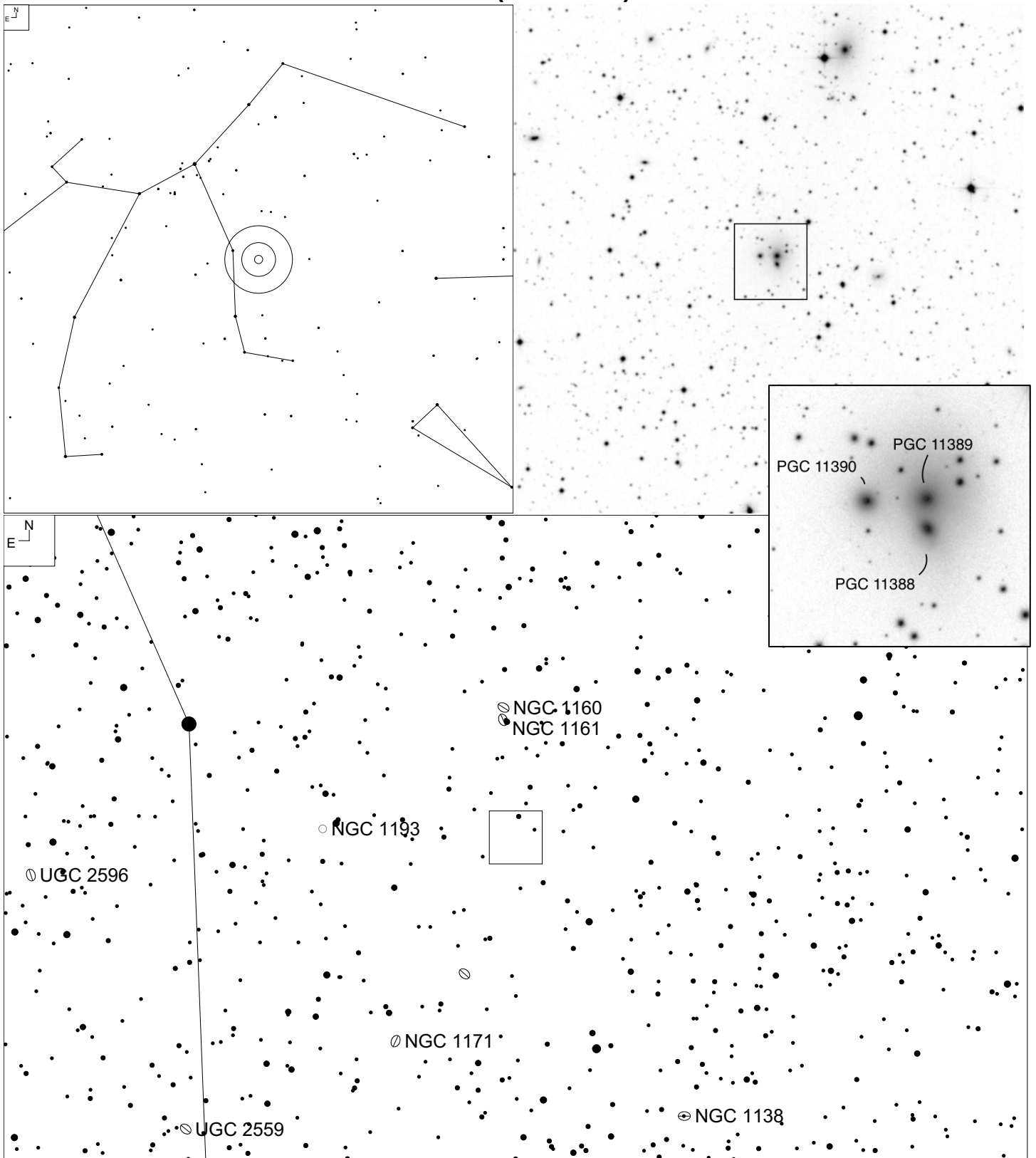
NGC 996 (Perseus)



Object	RA	Dec	Mag	Size
NGC 996	02 38 39.6	+41 38 52	14.0p	1.2'
NGC 999			14.4p	1.2 x 0.8'
NGC 1001			14.9	1.0 x 0.6'

Miles Paul trio

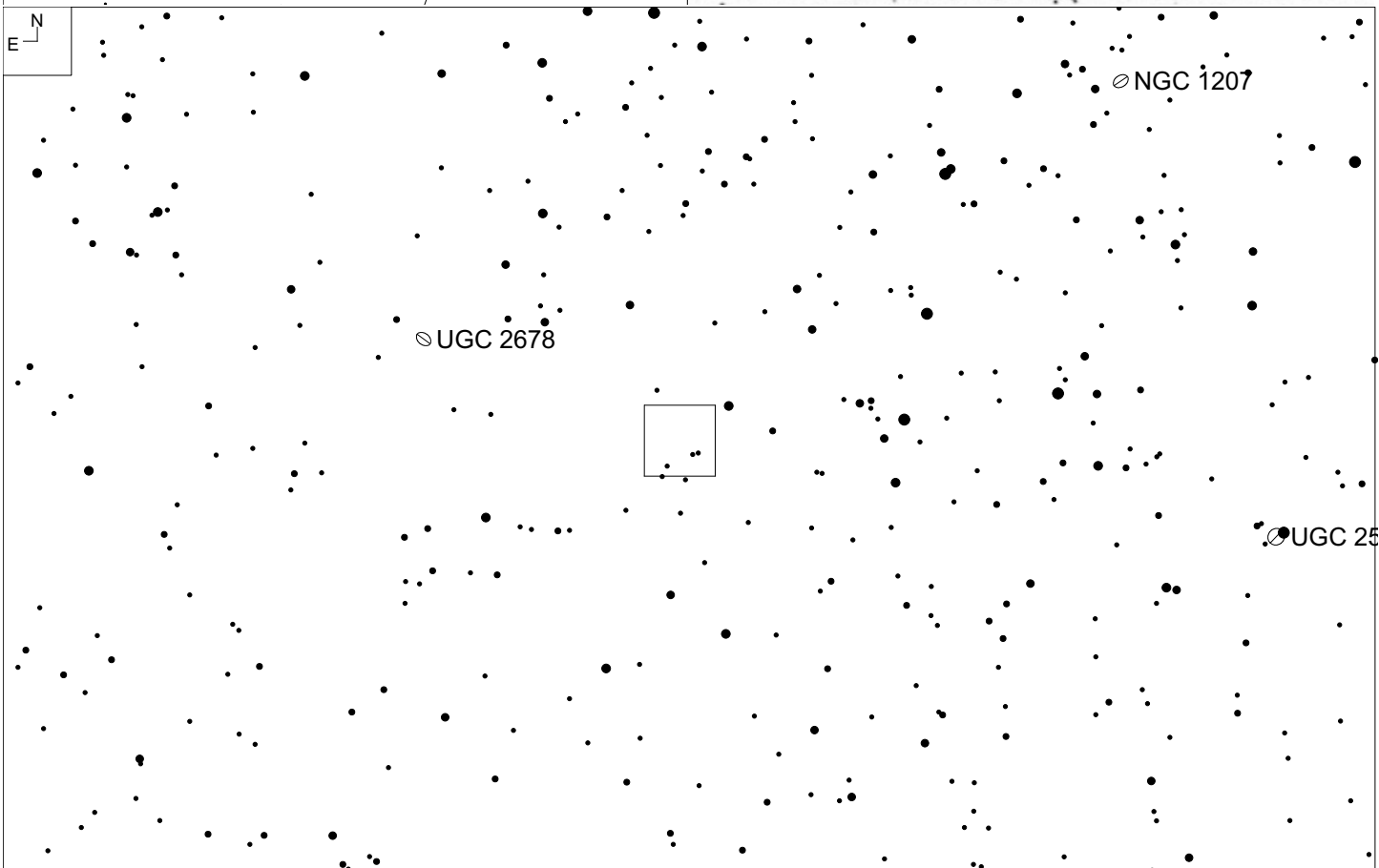
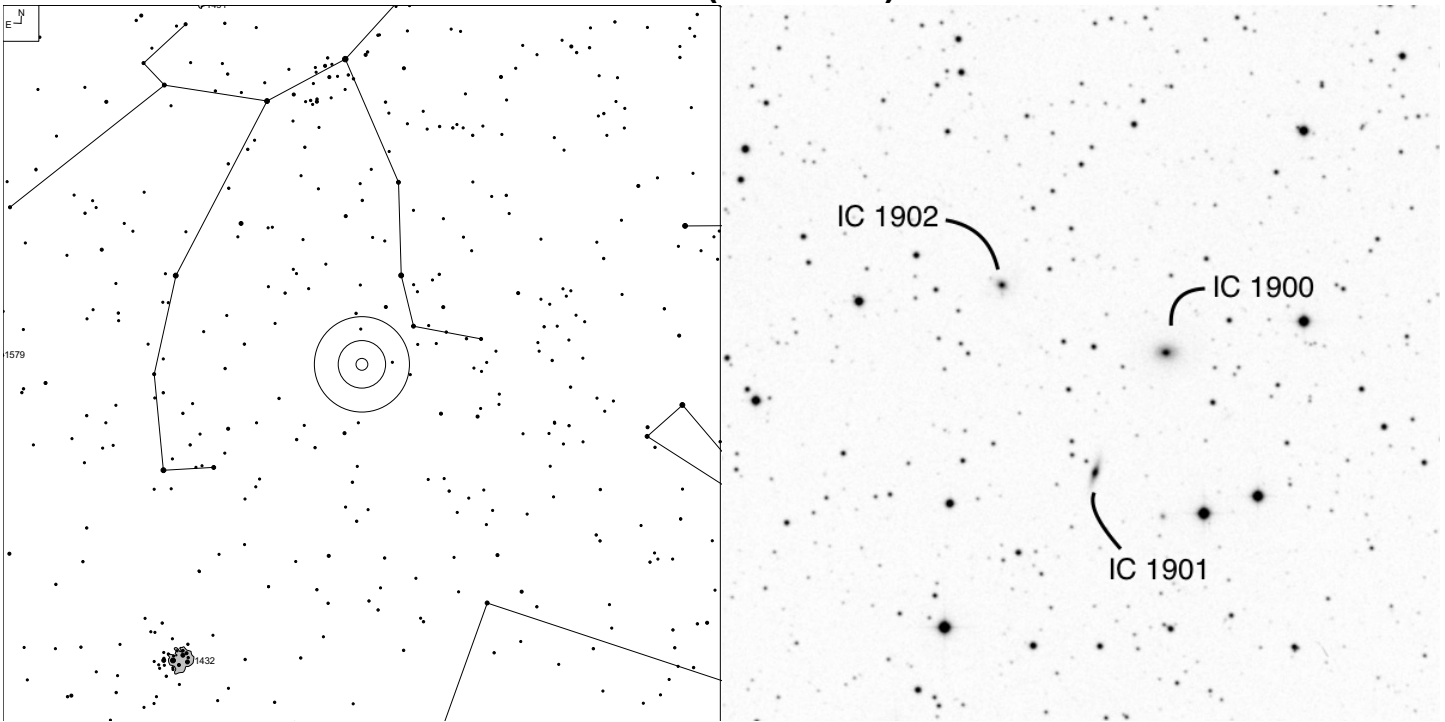
IC 275 (Perseus)



Object	RA	Dec	Mag	Size
PGC 11389	03 00 55.9	+44 21 00	17.3	0.4 x 0.4'
PGC 11388			17.5	0.2 x 0.2'
PGC 11390			17.5	0.2 x 0.2'

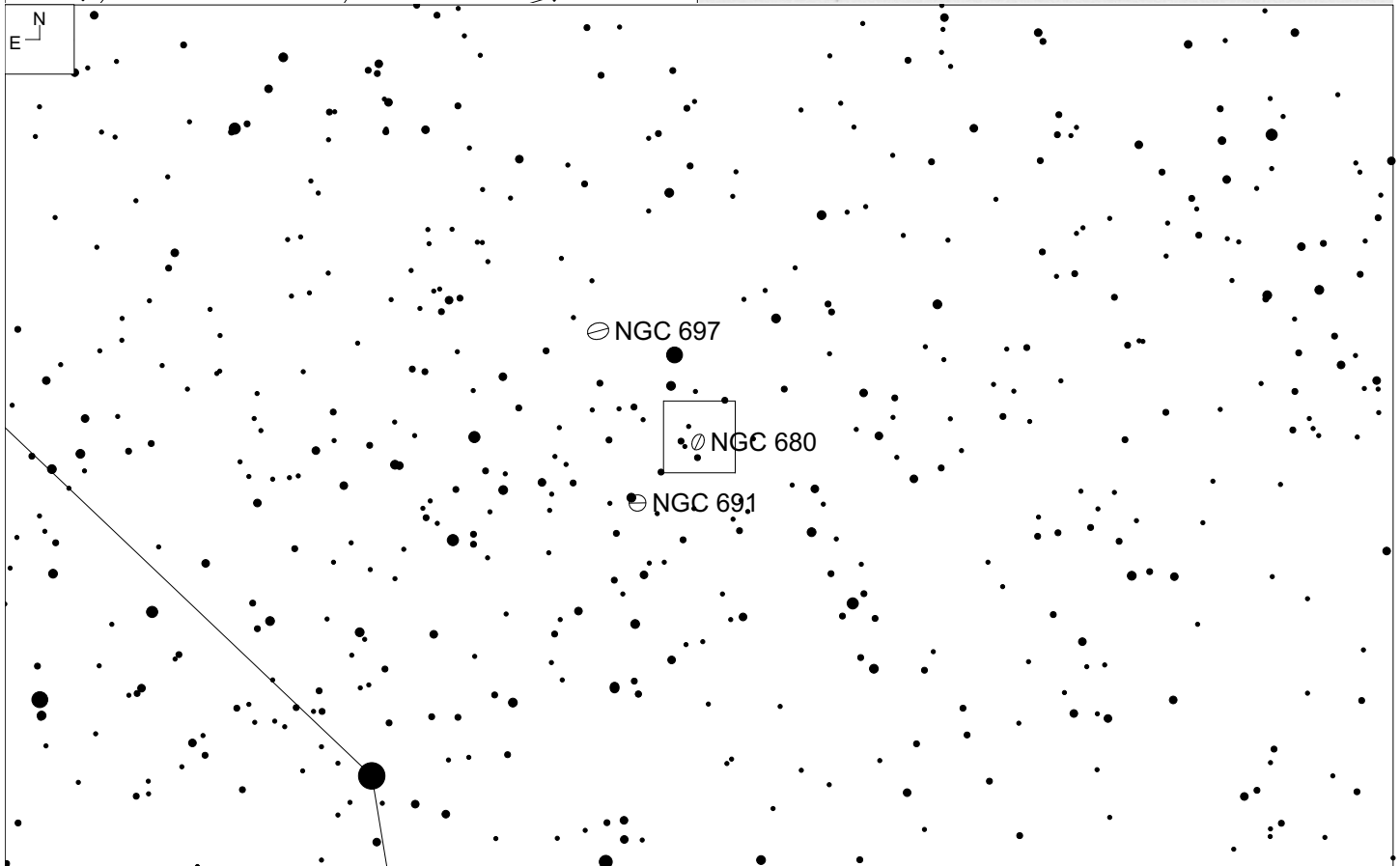
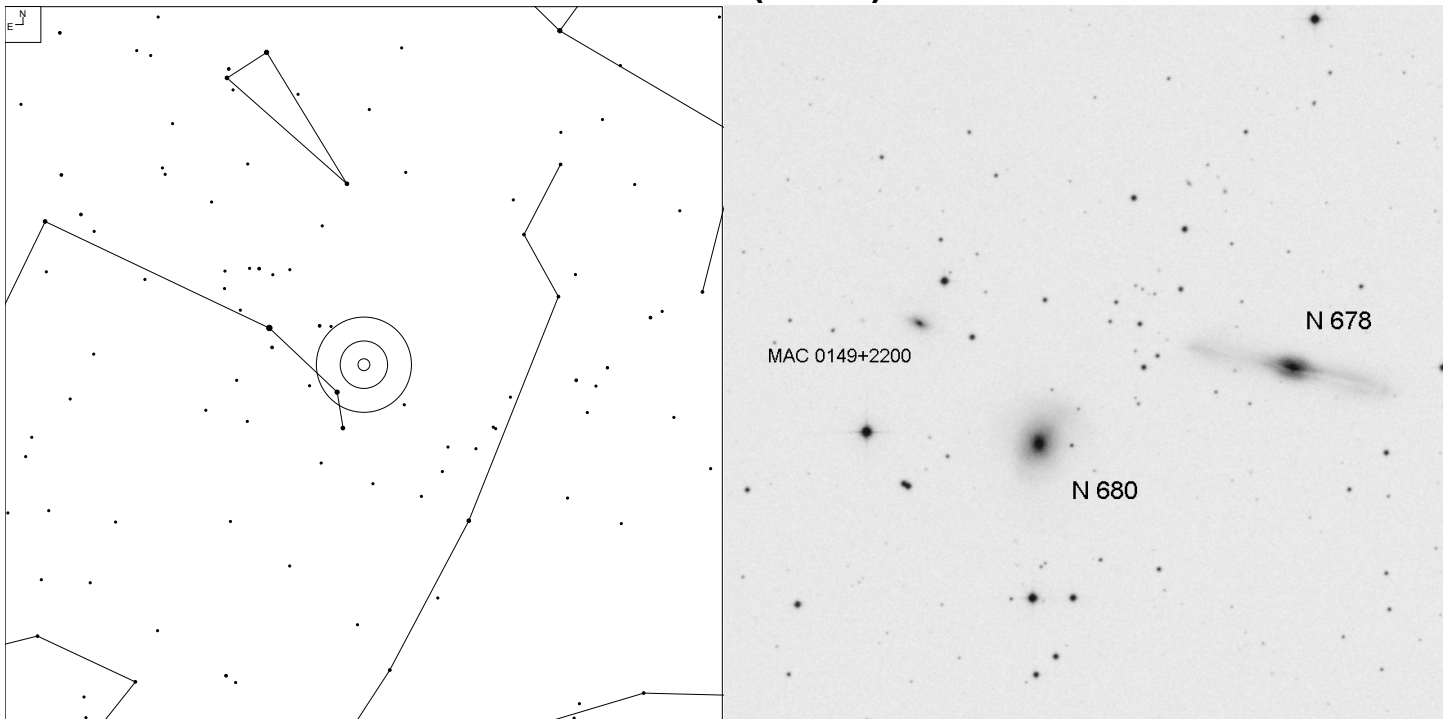
This triple system is IC 275, but the three individual components have separate PGC designations.

IC 1900 (Perseus)



Object (KTG 10)	RA	Dec	Mag	Size
IC 1900	03 15 55.1	+37 09 17	15.1	0.7 x 0.4'
IC 1901			15.7	0.8 x 0.3'
IC 1902			15.7	0.5 x 0.3'

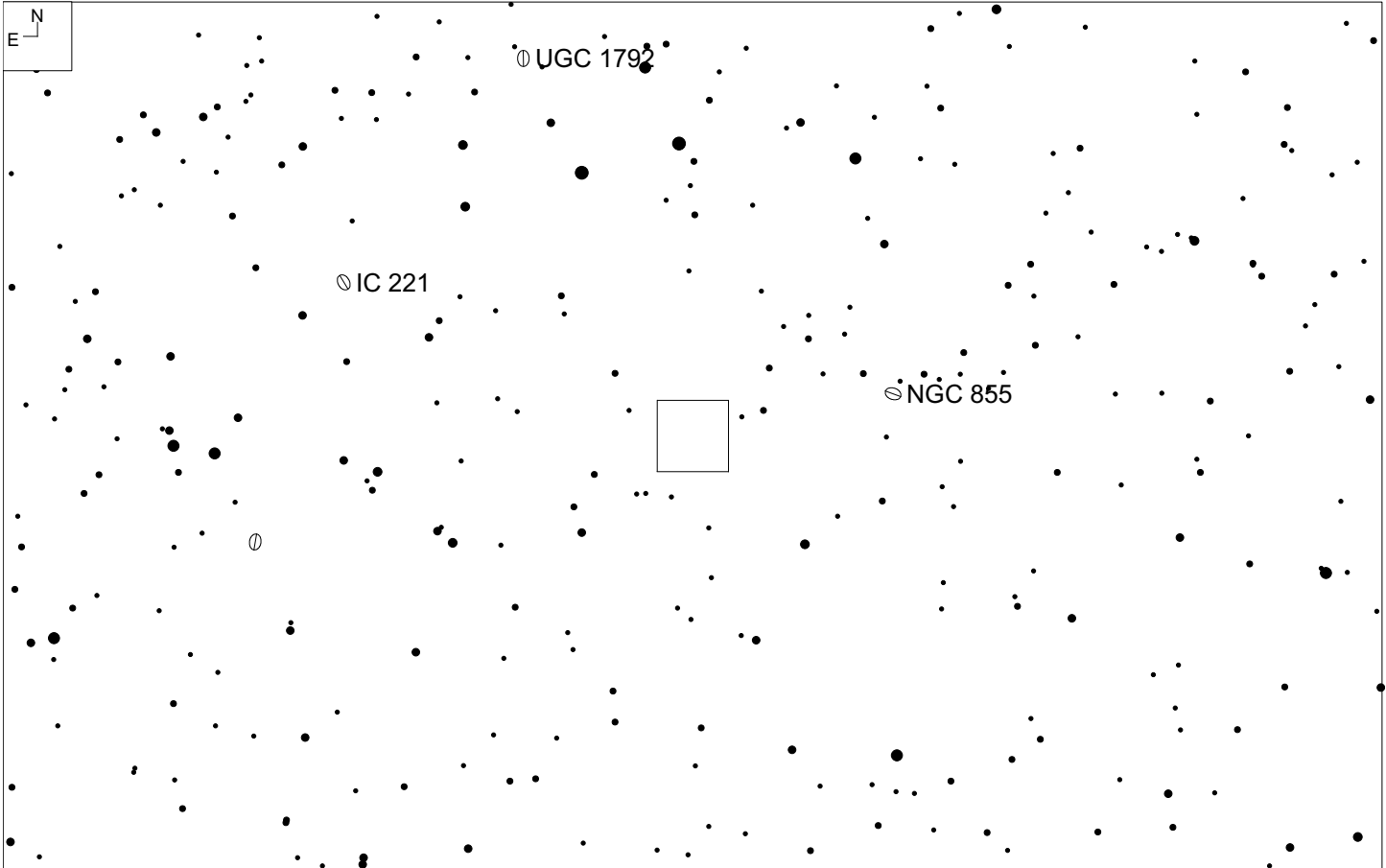
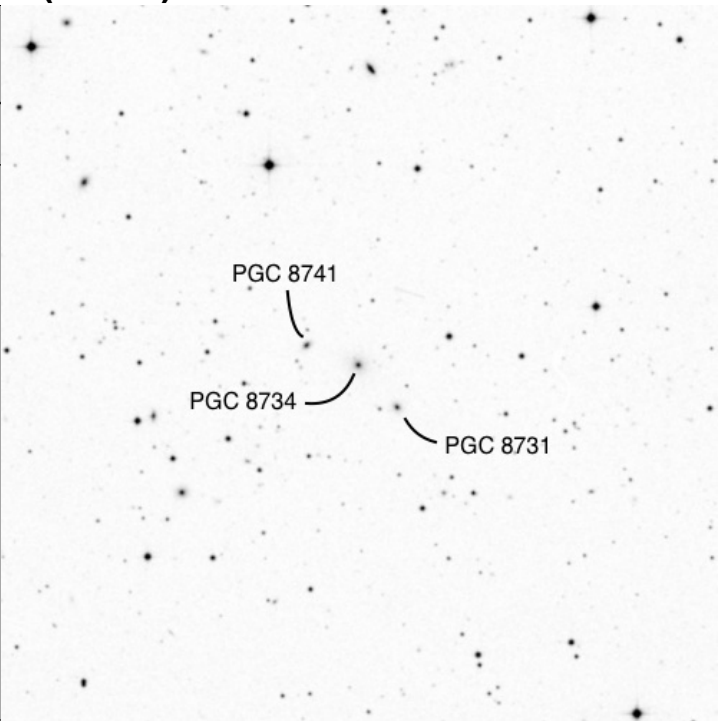
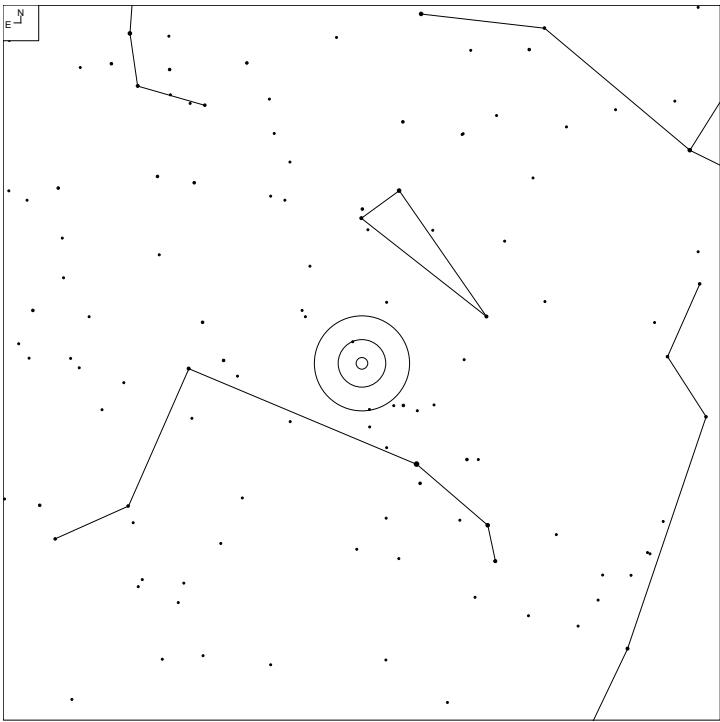
NGC 680 (Aries)



Object	RA	Dec	Mag	Size
NGC 680	01 49 47.3	+21 58 16	11.9v	2.0 x 1.6'
NGC 678			13.3b	4.4 x 0.7'
MAC 0149+2200			14.5	0.7 x 0.4'

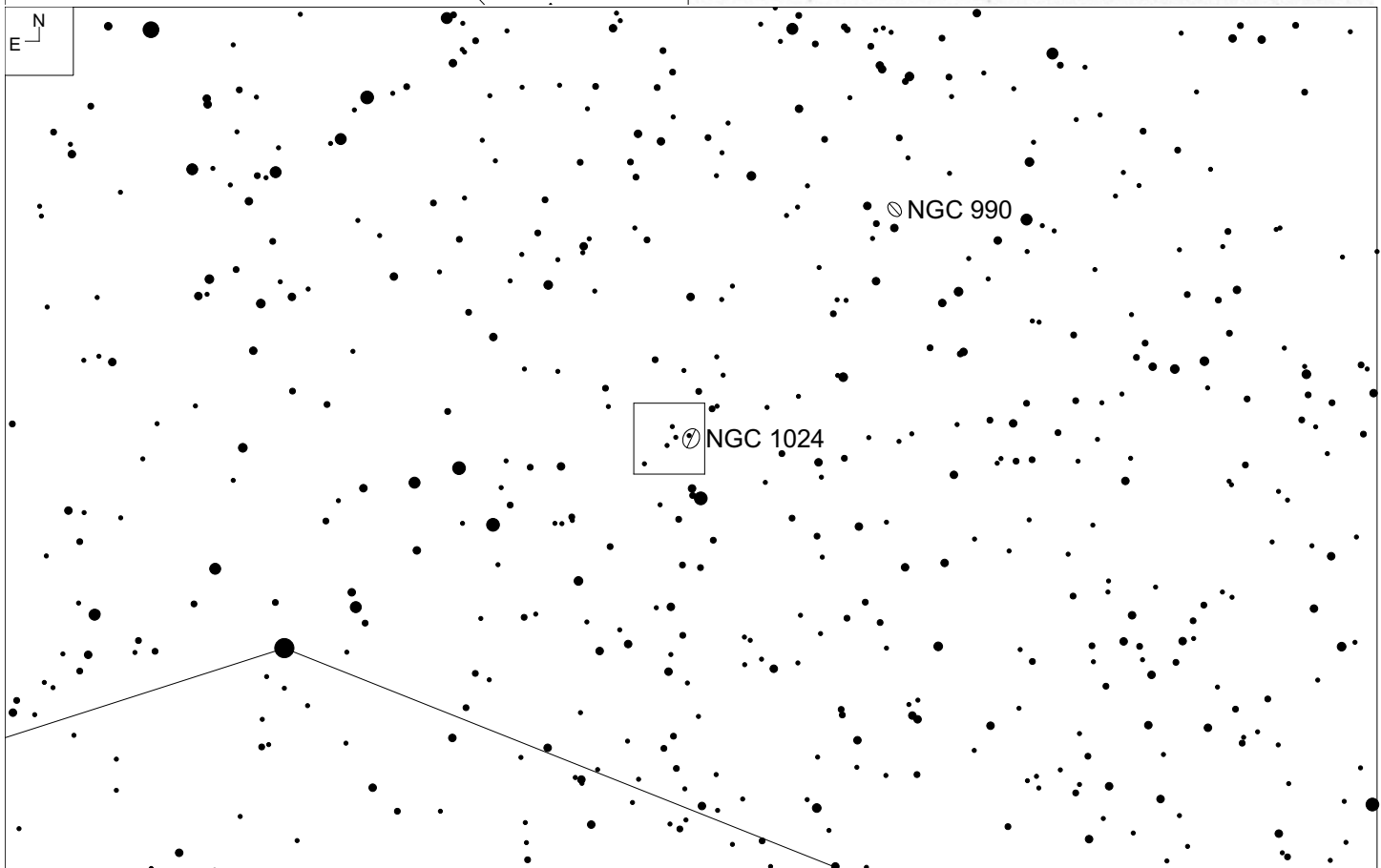
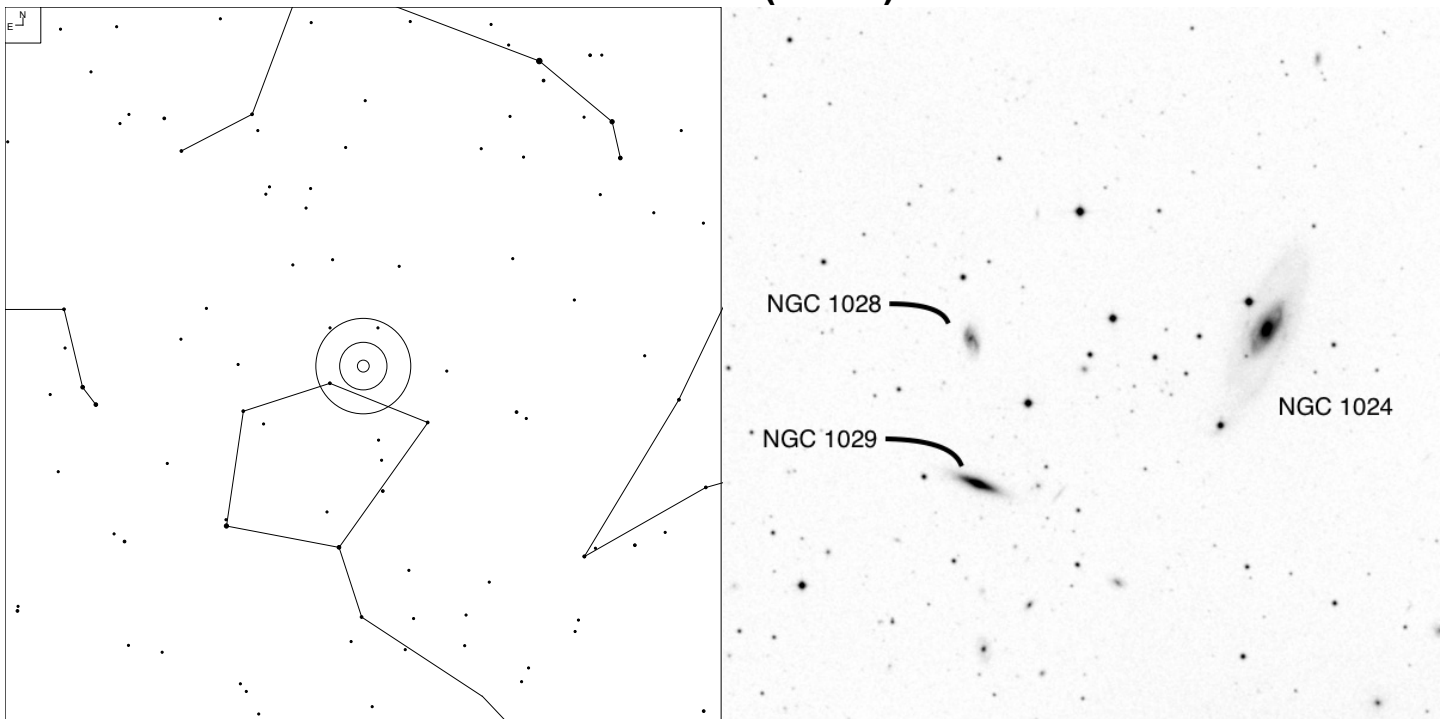
Miles Paul trio

PGC 8731 (Aries)



Object	RA	Dec	Mag	Size
PGC 8731	02 17 11.9	+27 44 00	17.1b	0.3 x 0.3'
PGC 8734			16.7b	0.5 x 0.4'
PGC 8741			17.1b	0.4 x 0.3'

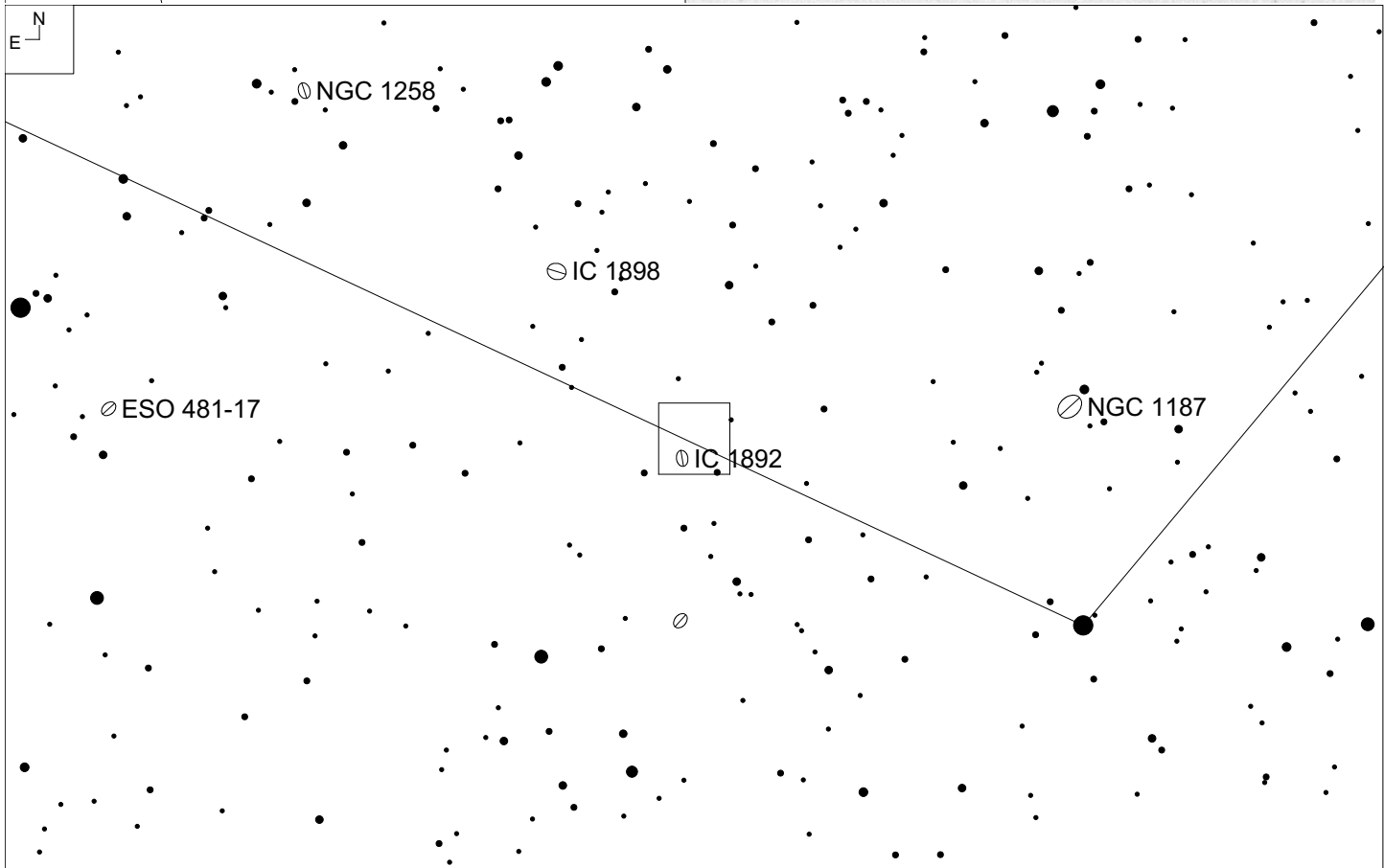
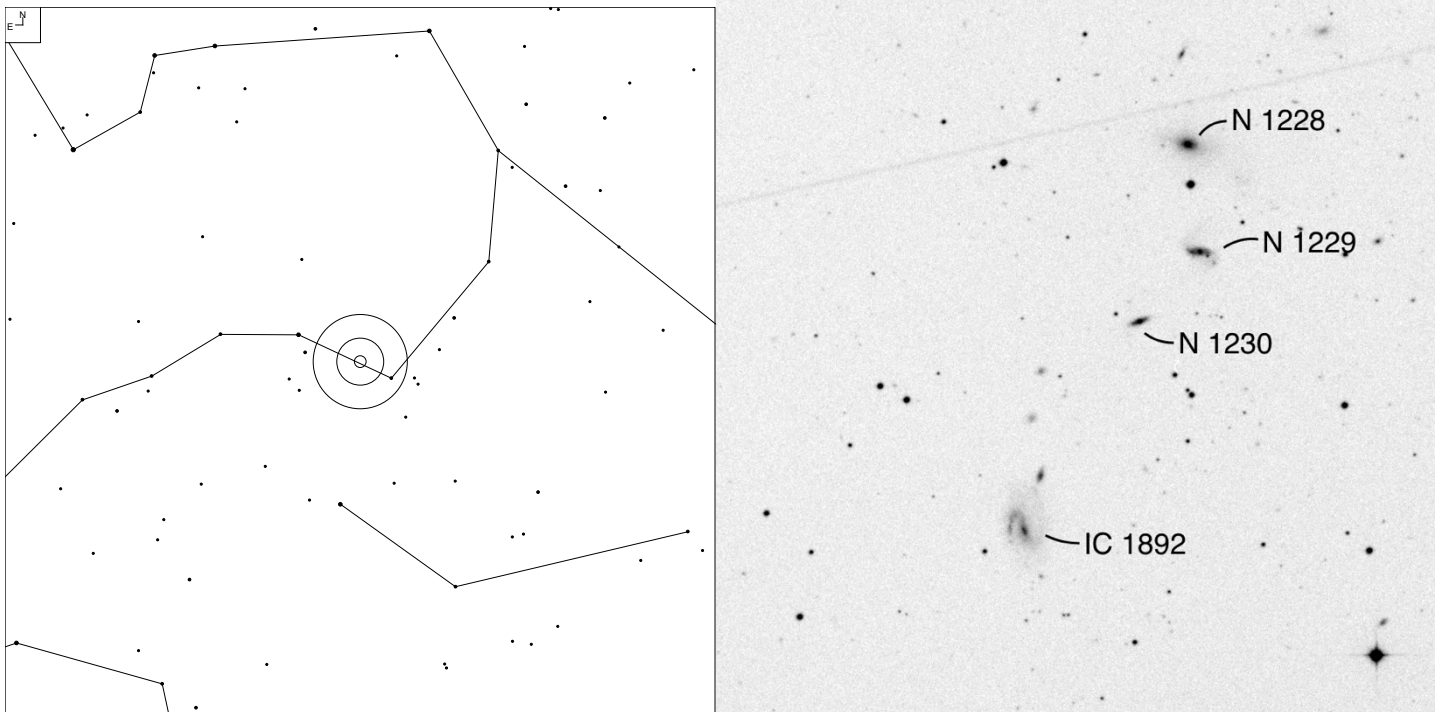
NGC 1024 (Aries)



Object (KTG 9)	RA	Dec	Mag	Size
NGC 1024	02 39 11.7	+10 50 46	13.1b	4.1 x 1.4'
NGC 1029			14.1p	1.3 x 0.5'
NGC 1028			15.3	0.9 x 0.5'

Miles Paul trio

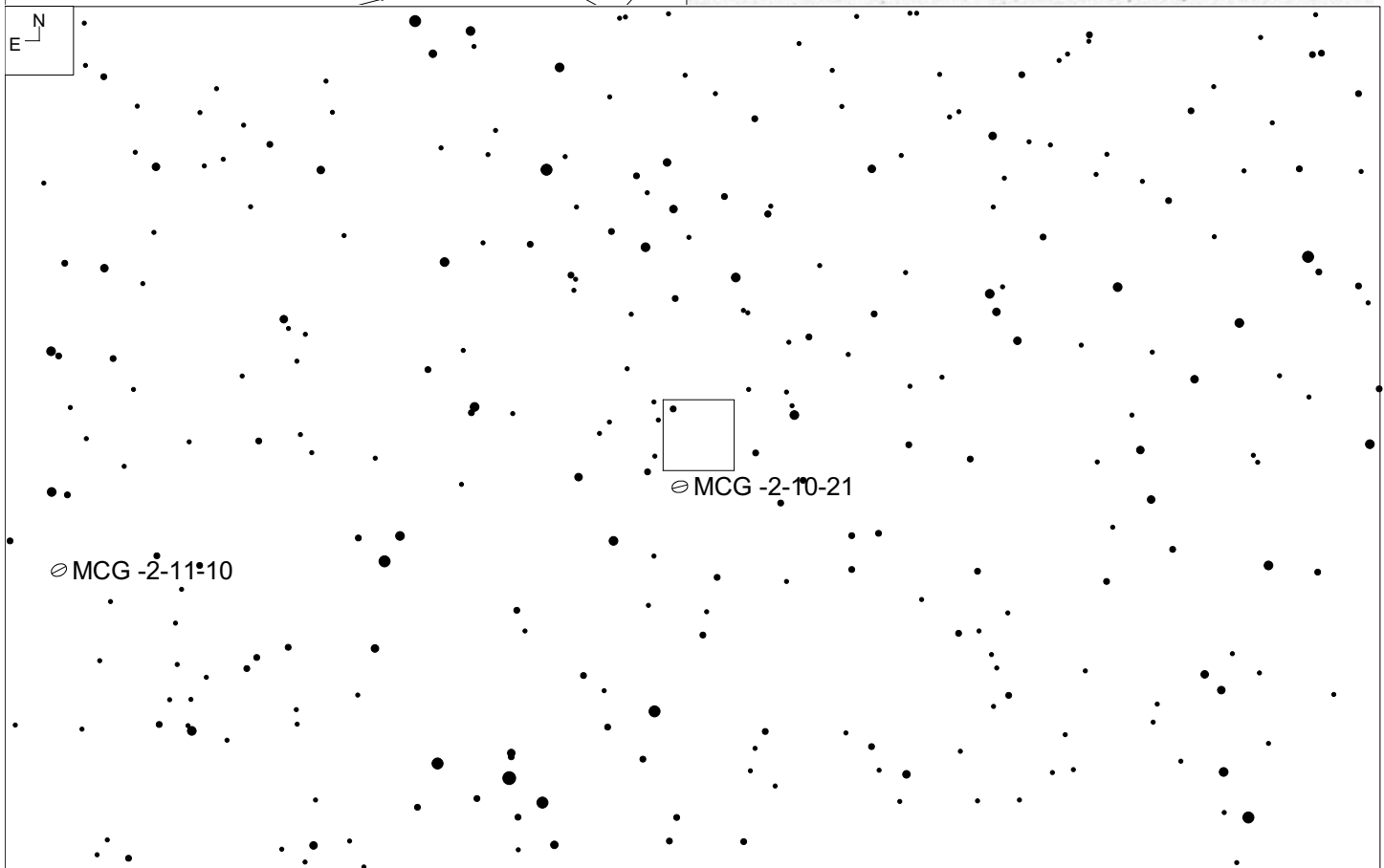
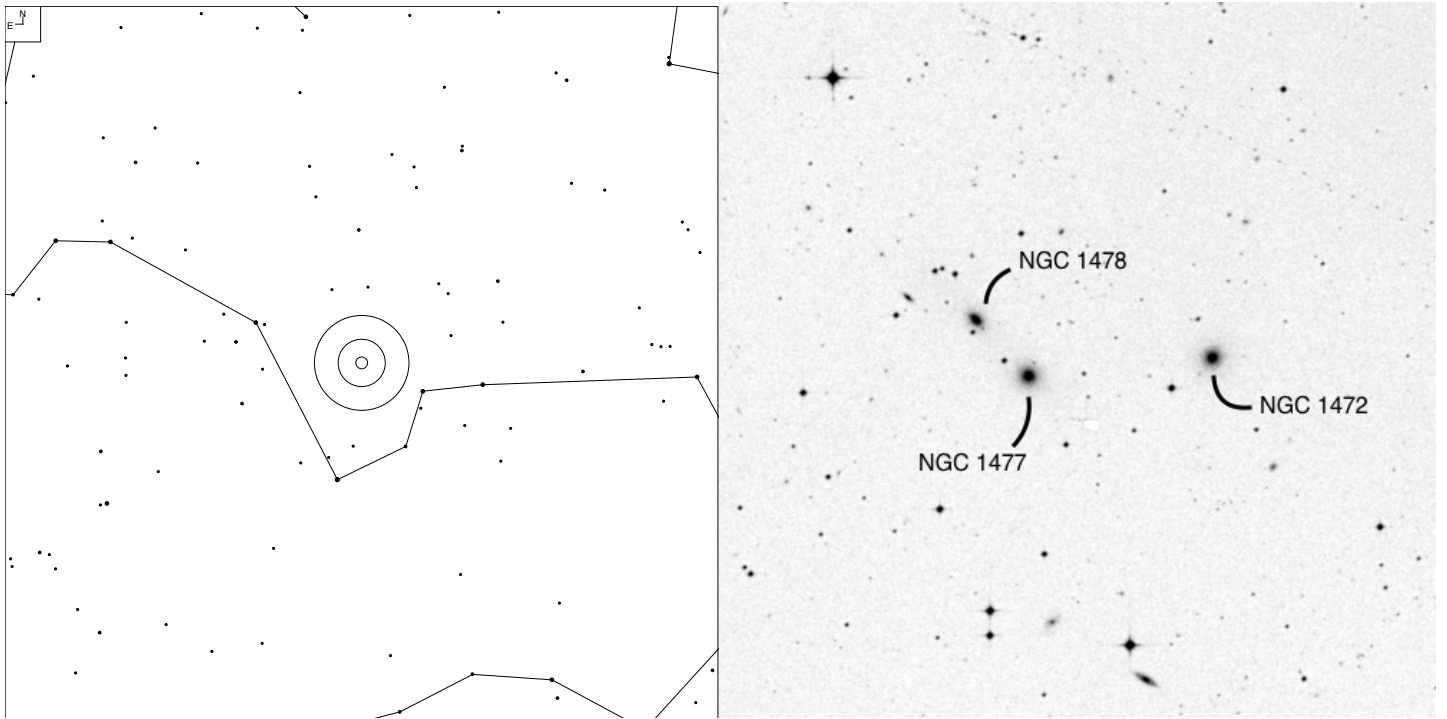
NGC 1228 (Eridanus)



Object	RA	Dec	Mag	Size
NGC 1228	03 08 11.6	-22 55 23	14.0p	1.4 x 0.8'
NGC 1229			14.8p	1.8 x 0.9'
NGC 1230			15.4p	0.6 x 0.2'
IC 1892			13.8p	2.1 x 1.1'

Miles Paul trio

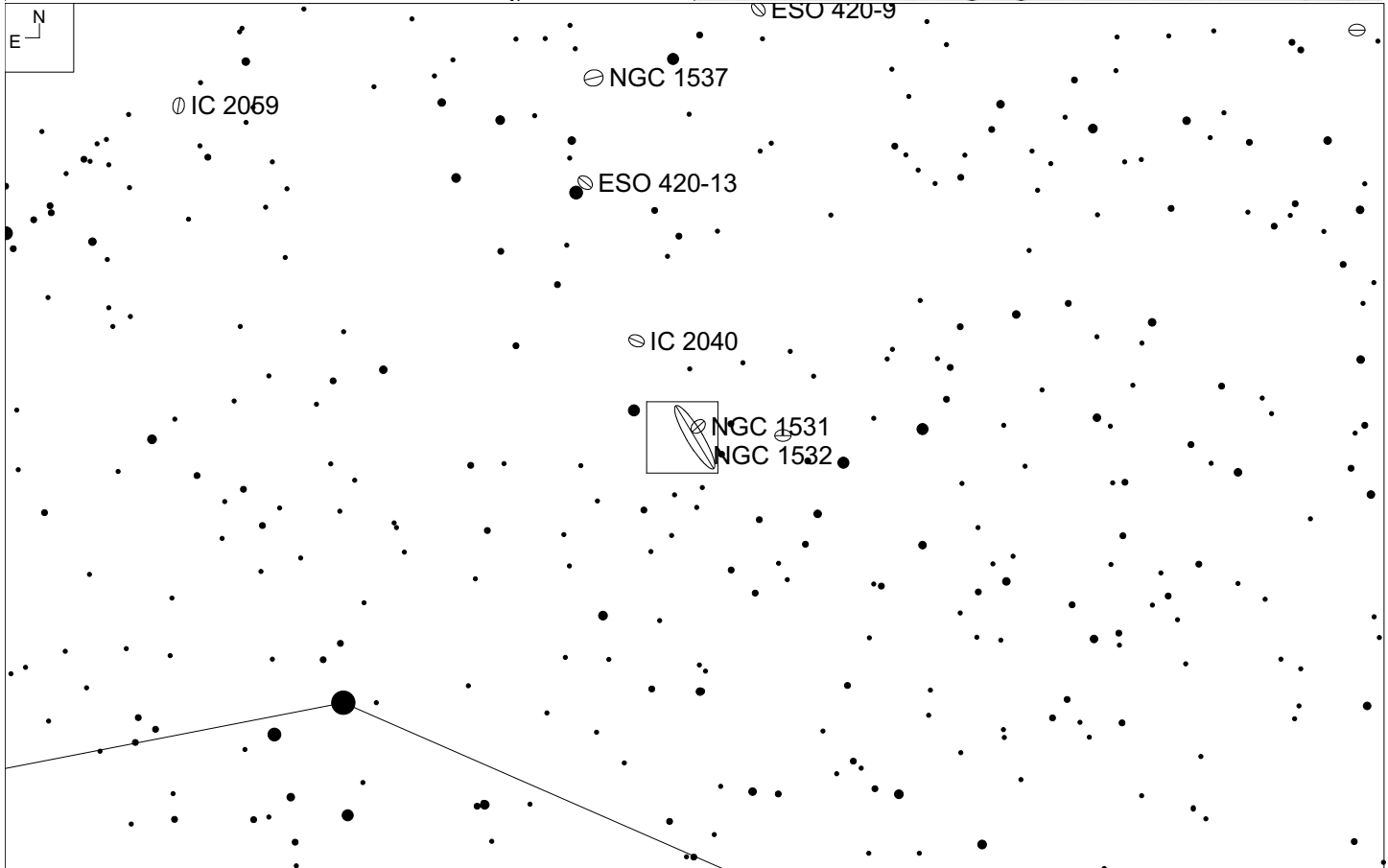
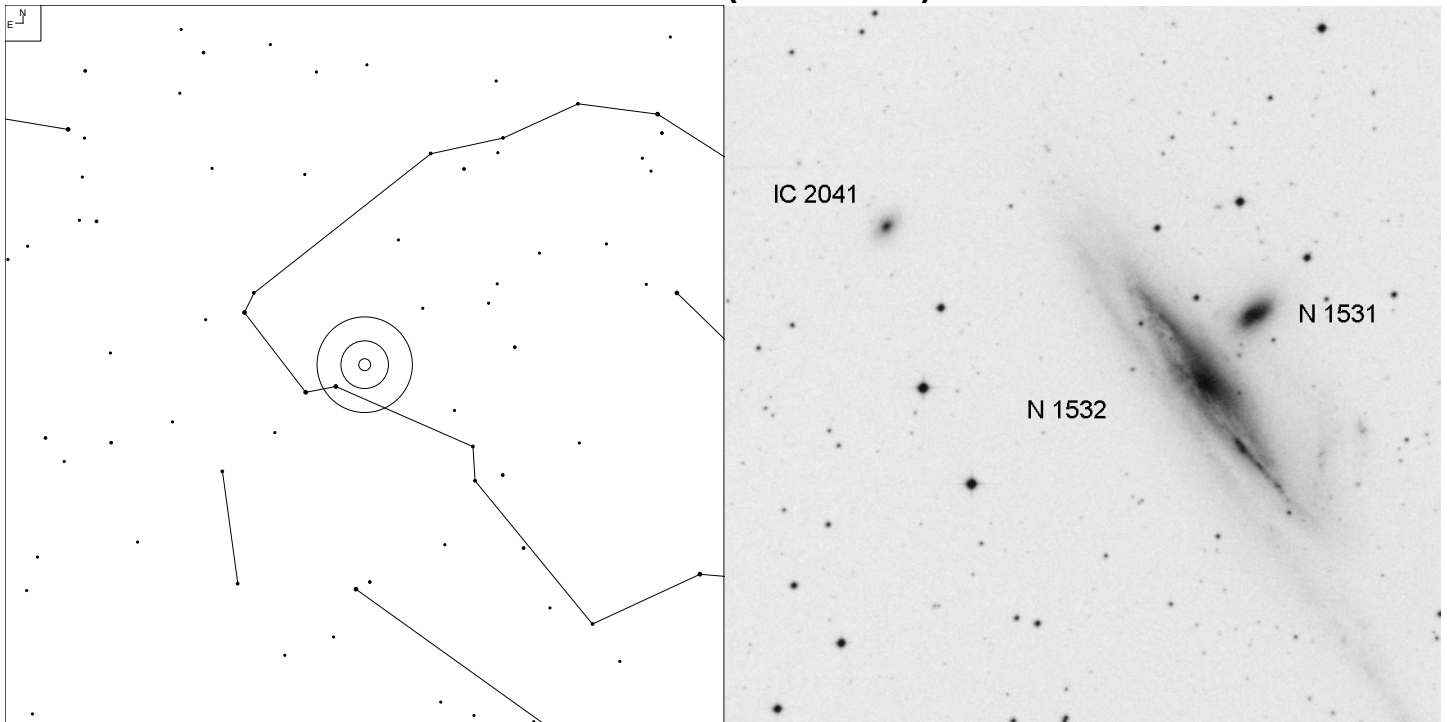
NGC 1472 (Eridanus)



Object	RA	Dec	Mag	Size
NGC 1472	03 53 47.3	-08 34 06	15.4	0.7'
NGC 1477			15.8	0.6'
NGC 1478			16.5	0.6 x 0.3'

Miles Paul trio

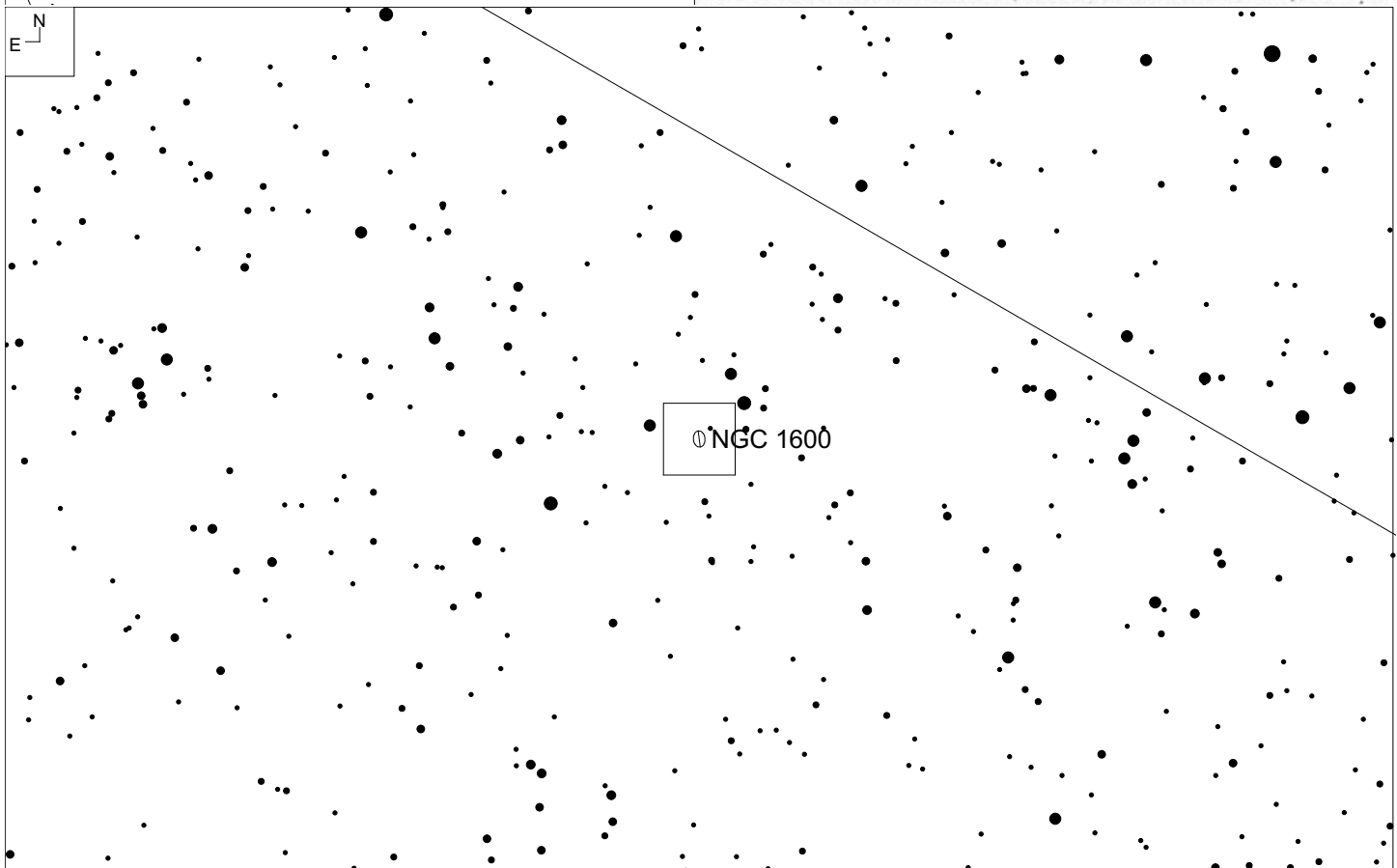
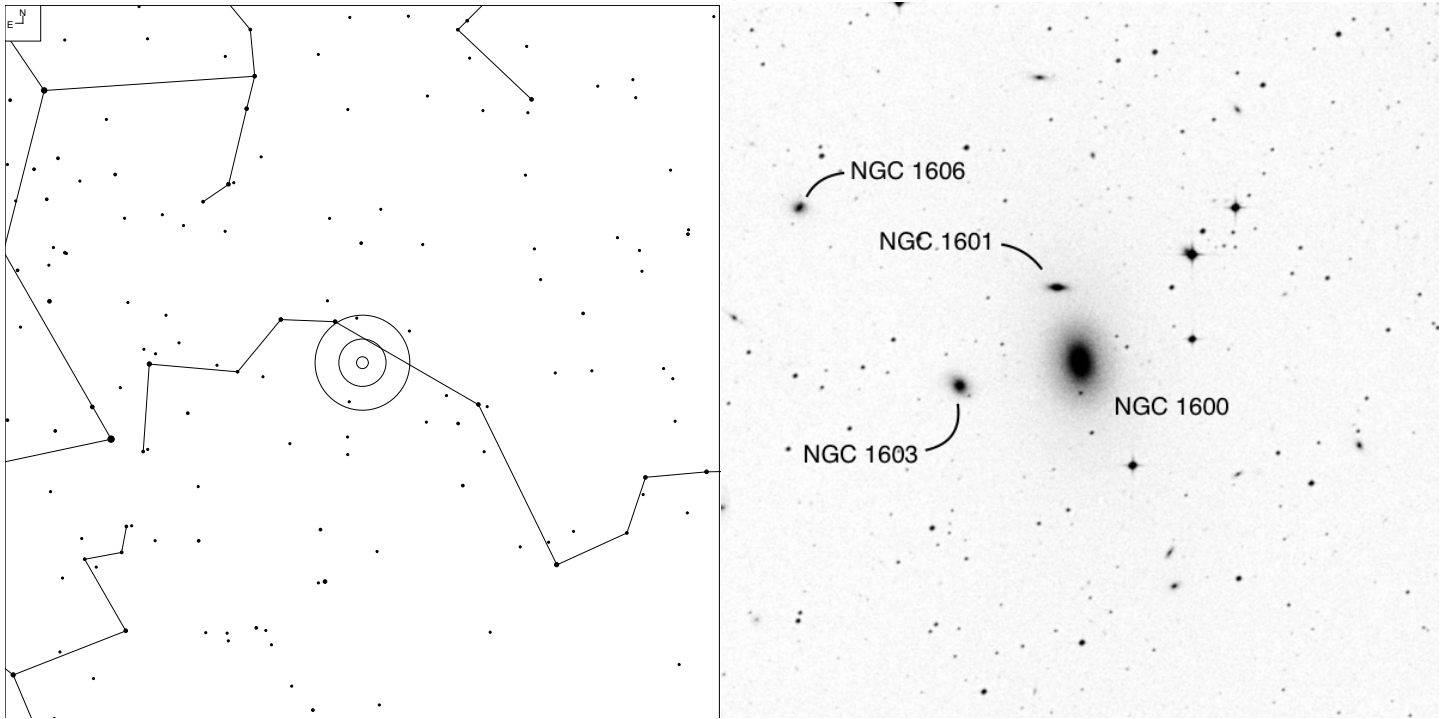
NGC 1532 (Eridanus)



Object	RA	Dec	Mag	Size
NGC 1532	04 12 02.5	-32 53 19	9.8v	15. x 2.4'
NGC 1531			13.2p	1.4 x 0.9'
IC 2041			14.6p	1.1 x 0.6'

Miles Paul trio

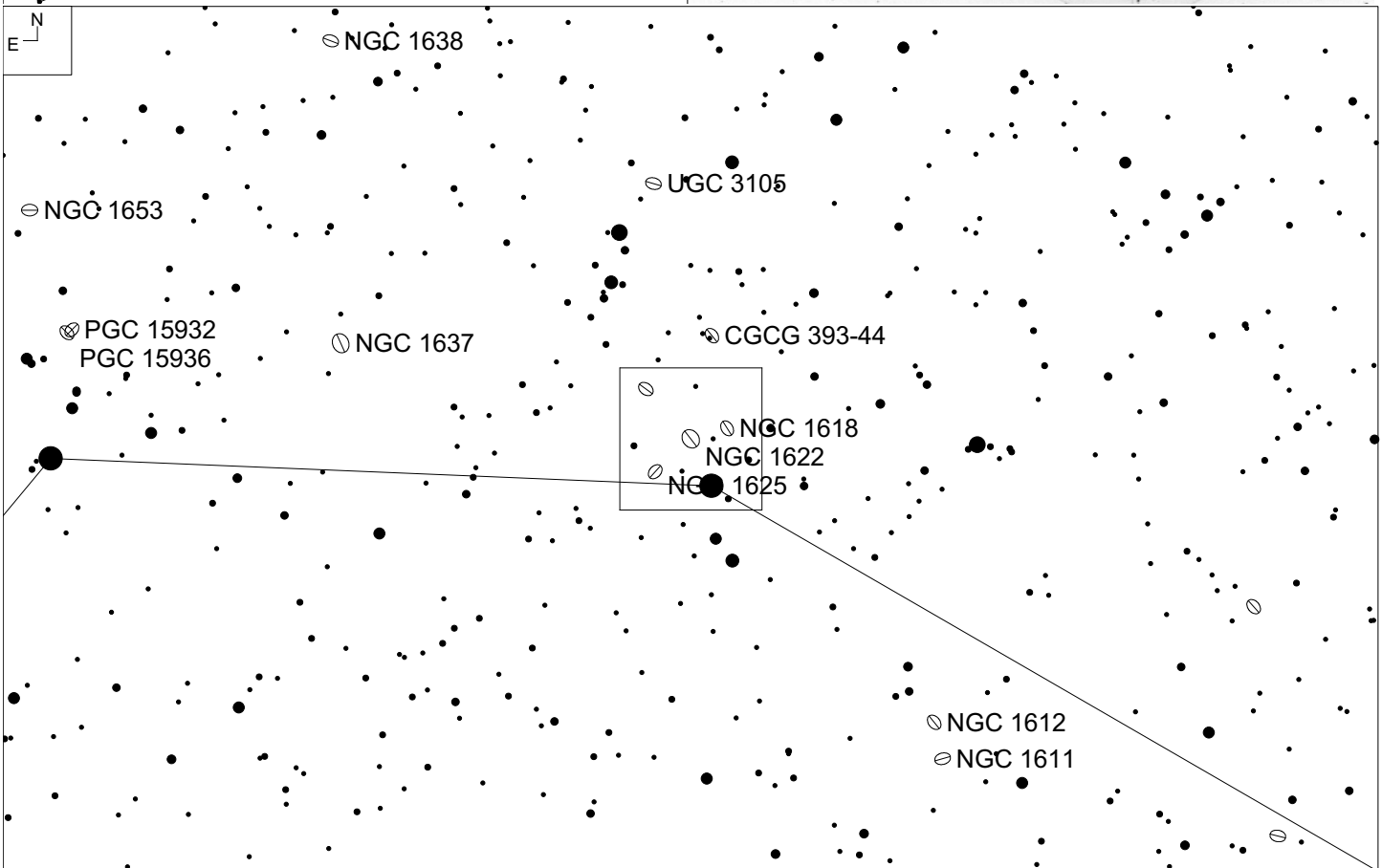
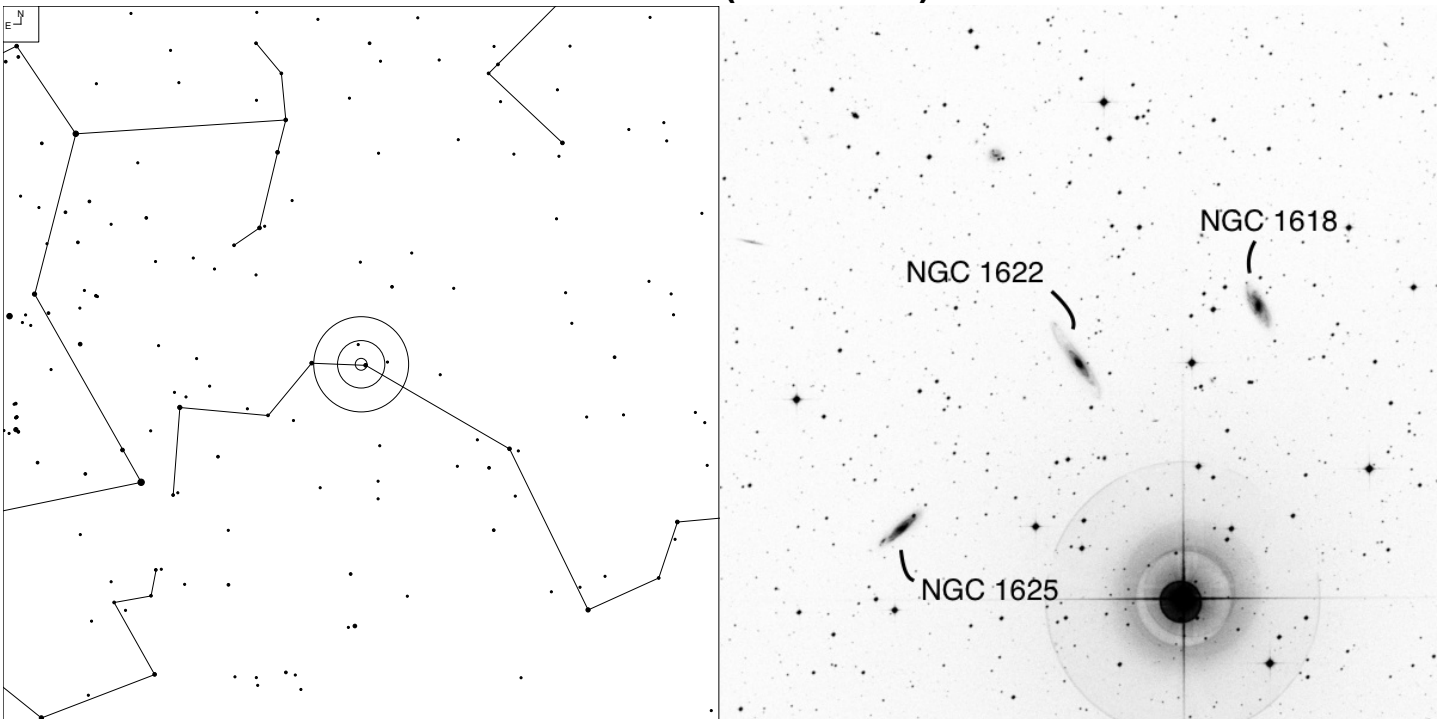
NGC 1600 (Eridanus)



Object	RA	Dec	Mag	Size
NGC 1600	04 31 39.9	-05 05 10	10.9v	3.0 x 2.5'
NGC 1601			13.8v	0.9 x 0.3'
NGC 1603			13.8v	1.0 x 0.7'
NGC 1606			15.9	0.5'

Miles Paul trio

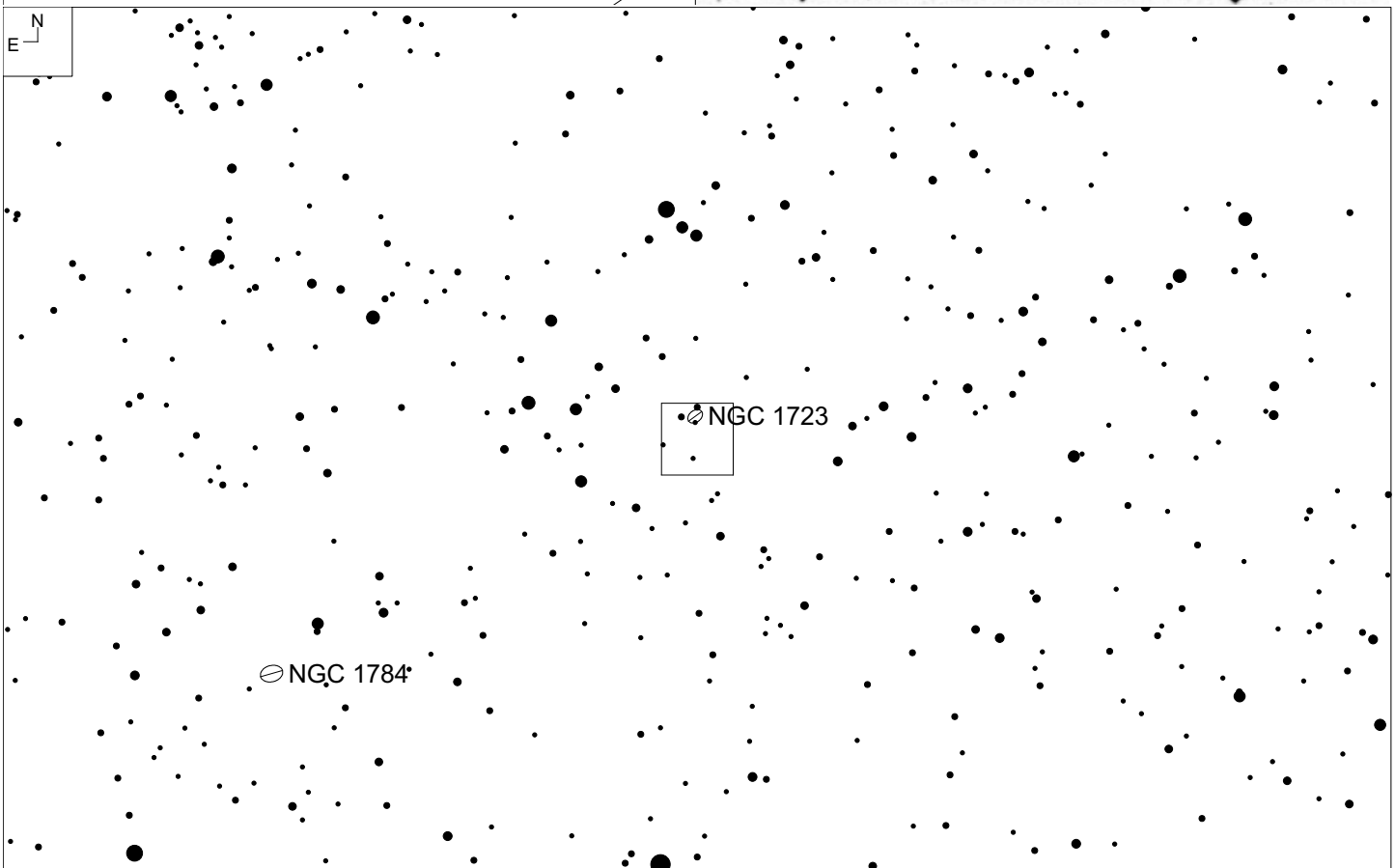
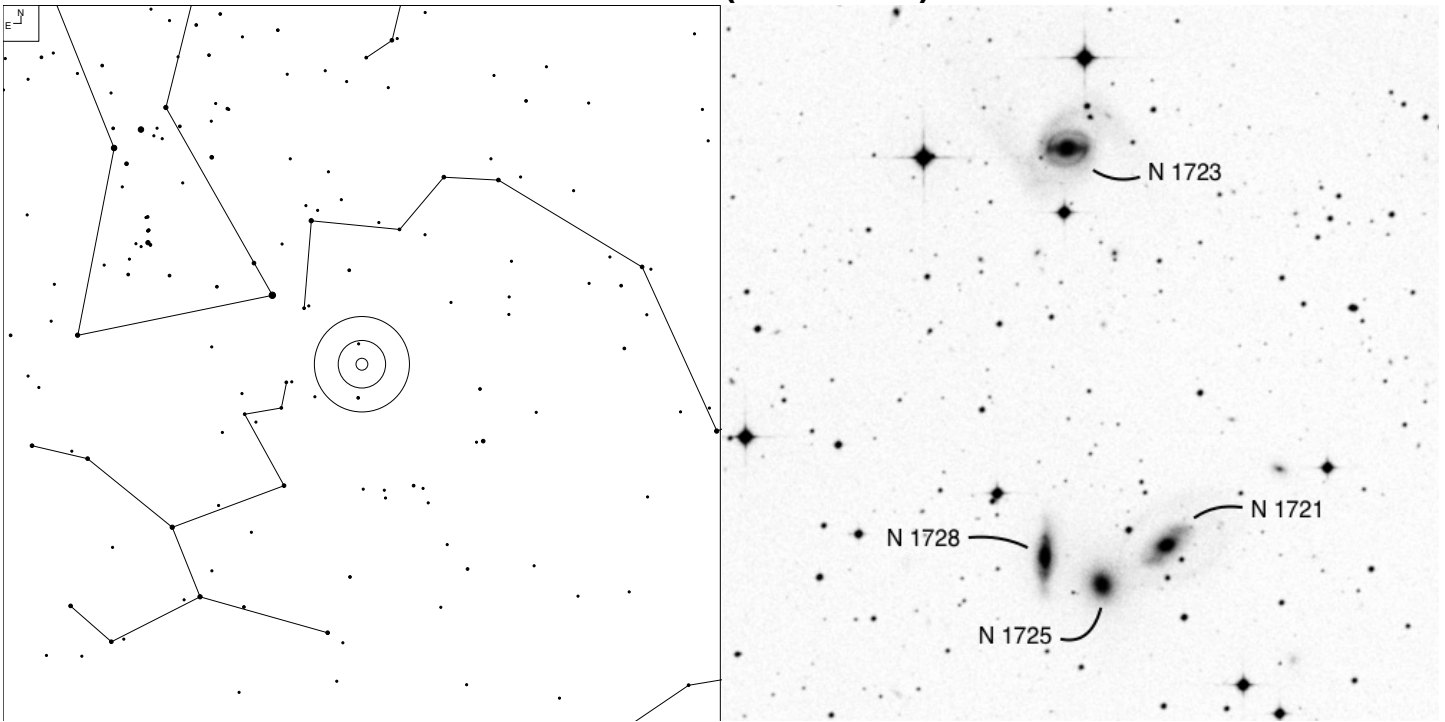
NGC 1625 (Eridanus)



Object	RA	Dec	Mag	Size
NGC 1625	04 37 06.2	-03 18 12	12.2v	2.7 x 0.7'
NGC 1622			12.5v	4.0 x 0.8'
NGC 1618			12.7v	2.8 x 0.9'

Miles Paul trio

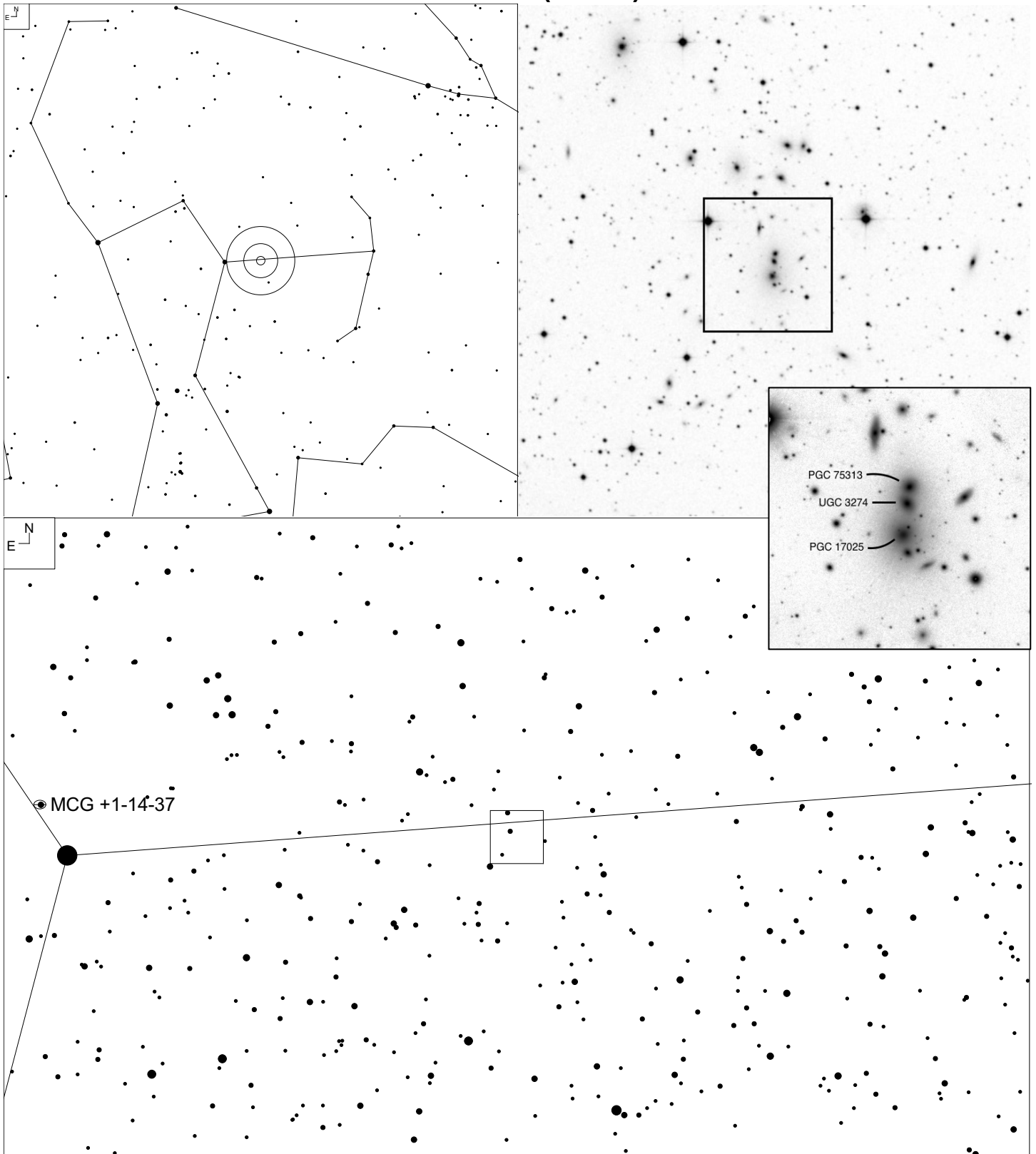
NGC 1721 (Eridanus)



Object	RA	Dec	Mag	Size
NGC 1721	04 59 17.4	-11 07 08	13.1	2.5 x 1.6'
NGC 1725			13.1	1.9 x 1.2'
NGC 1728			13.7	2.0 x 0.6'
NGC 1723			12.5	3.2 x 1.9'

Miles Paul and Astronomical League trio

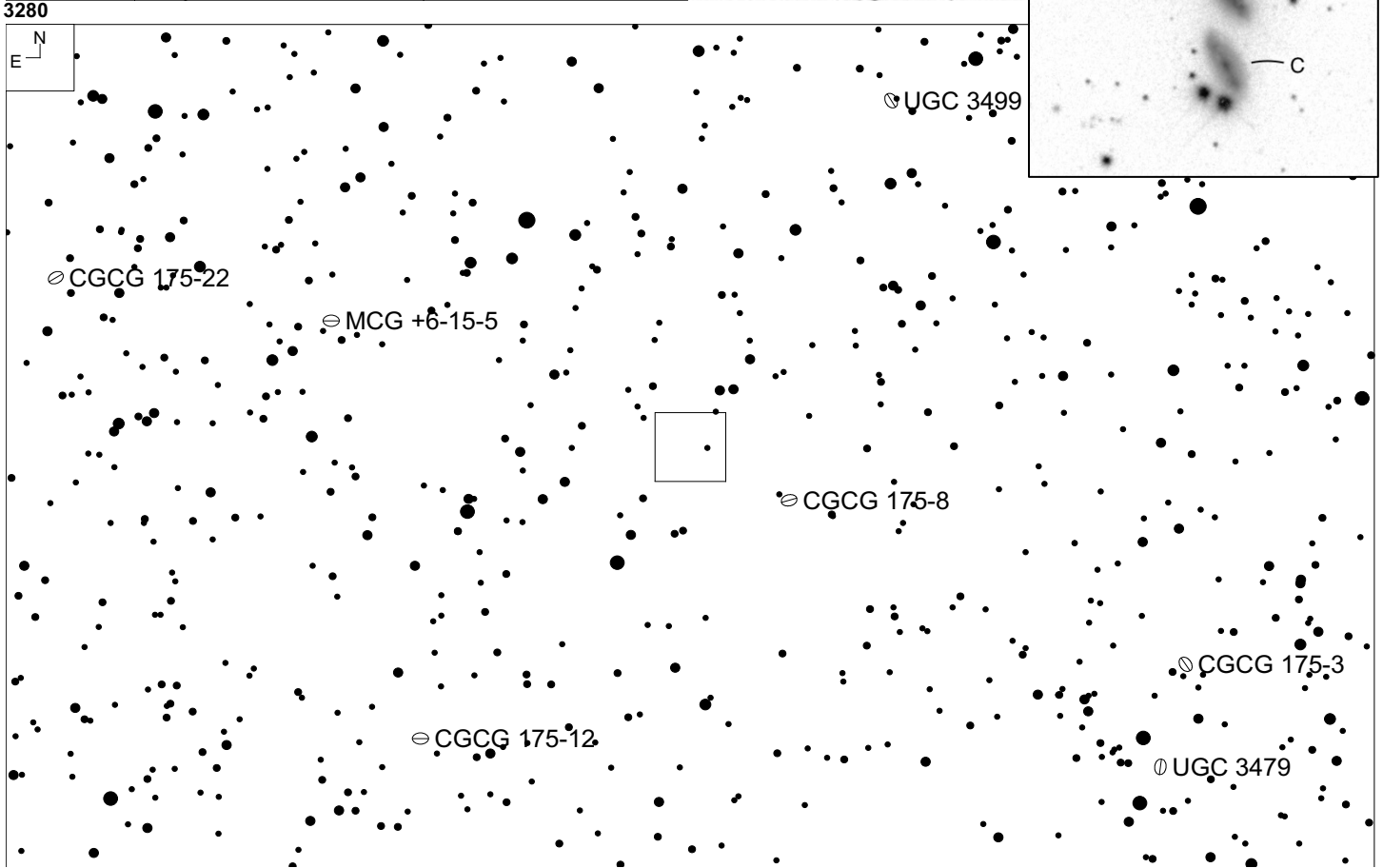
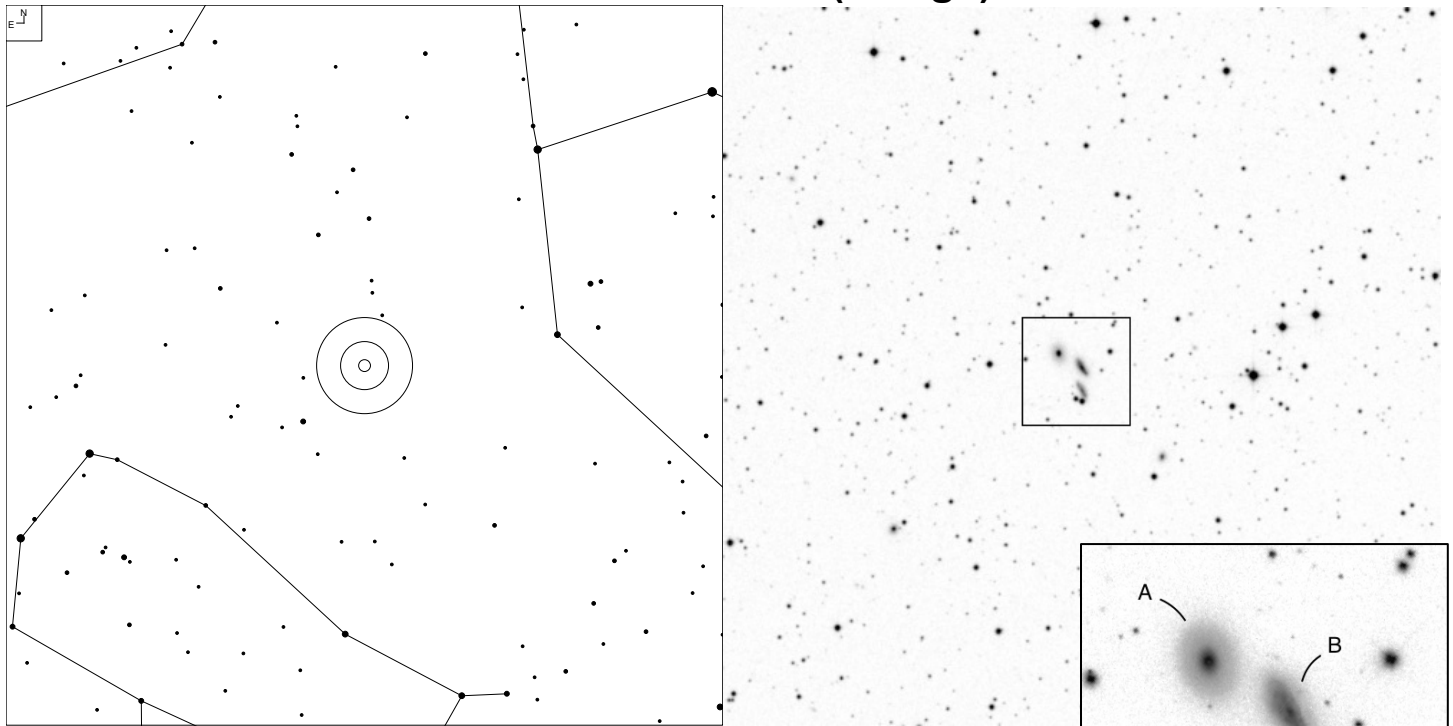
UGC 3274 (Orion)



Object	RA	Dec	Mag	Size
PGC 75313	05 16 37.3	+06 26 27	15.0b	0.7 x 0.7'
UGC 3274			14.0b	0.4 x 0.3'
PGC 17025			15.0b	0.3 x 0.3'

This trio lies in the center of Abell GC 539 and part of VV 161 chain of galaxies.
 Note: Labeled only the trio.

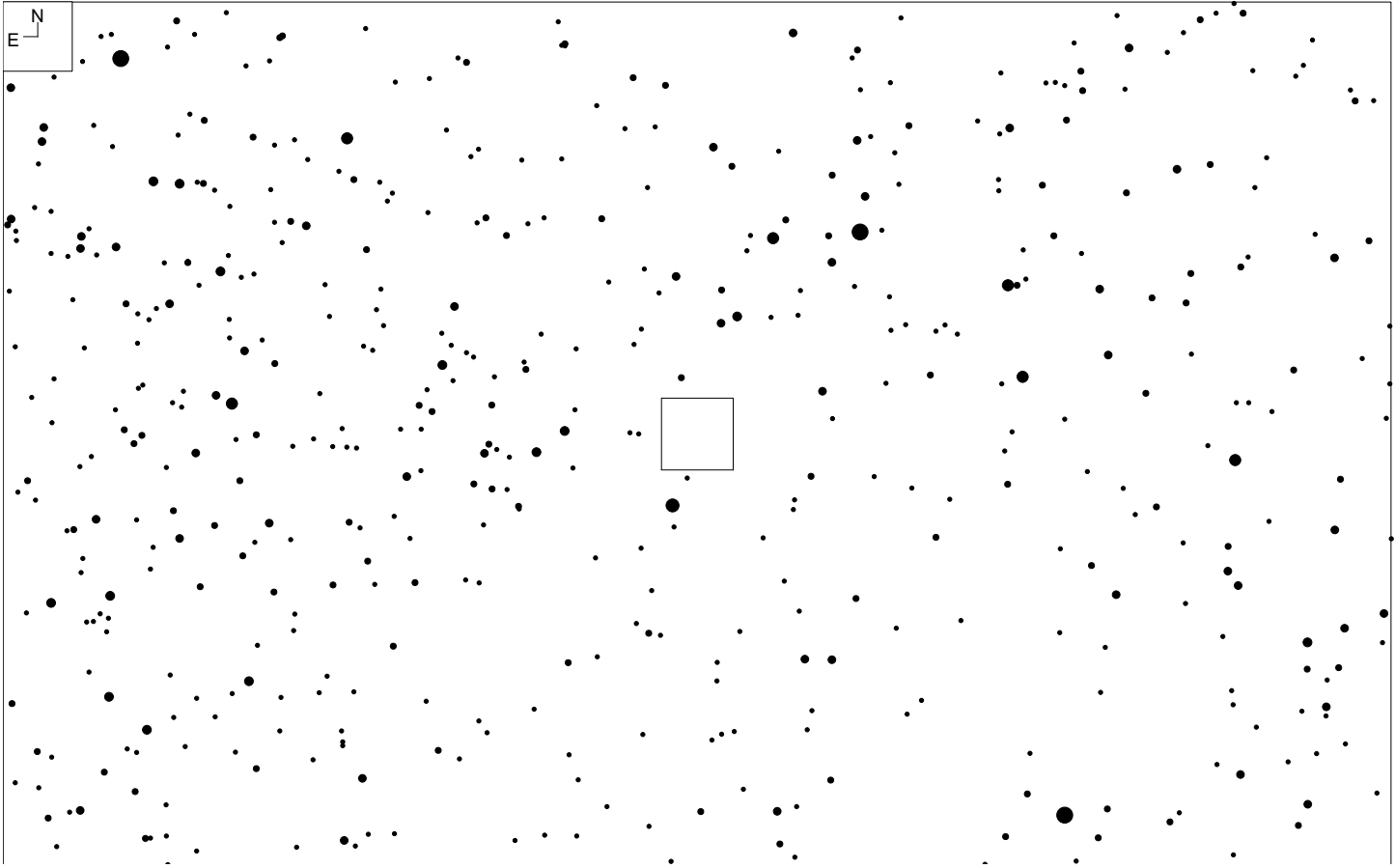
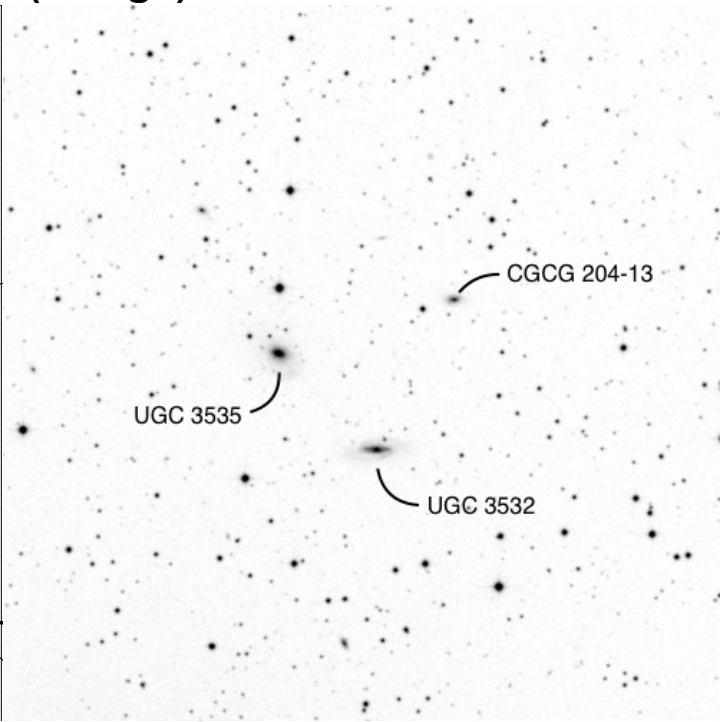
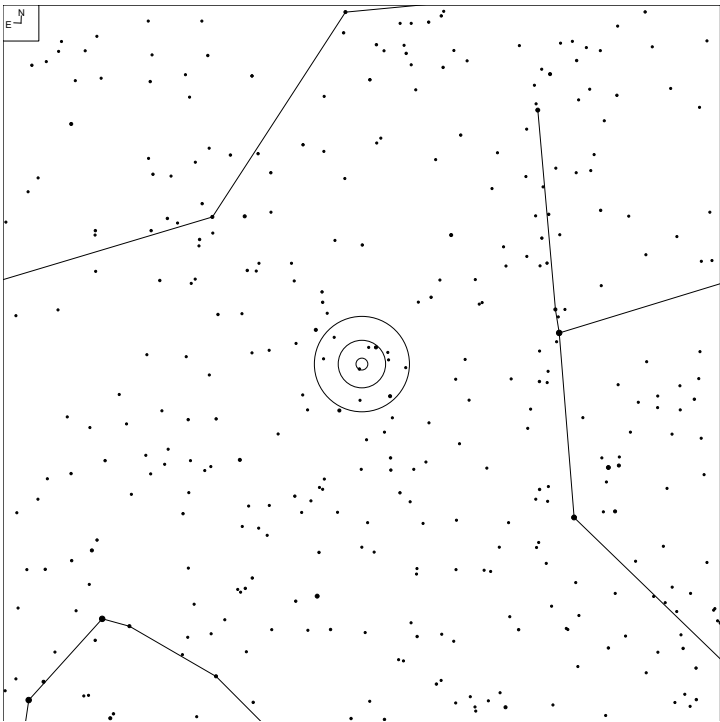
IRAS 06370+3623 (Auriga)



Object	RA	Dec	Mag	Size
A – 2MASX J06402256+3620375	06 40 22.6	+36 20 38	16.1	0.5 x 0.2'
B – 2MASX J06402496+3620554			15.4	0.4 x 0.4'
C – 2MASX J06402256+3620074			16.4	0.4 x 0.2'

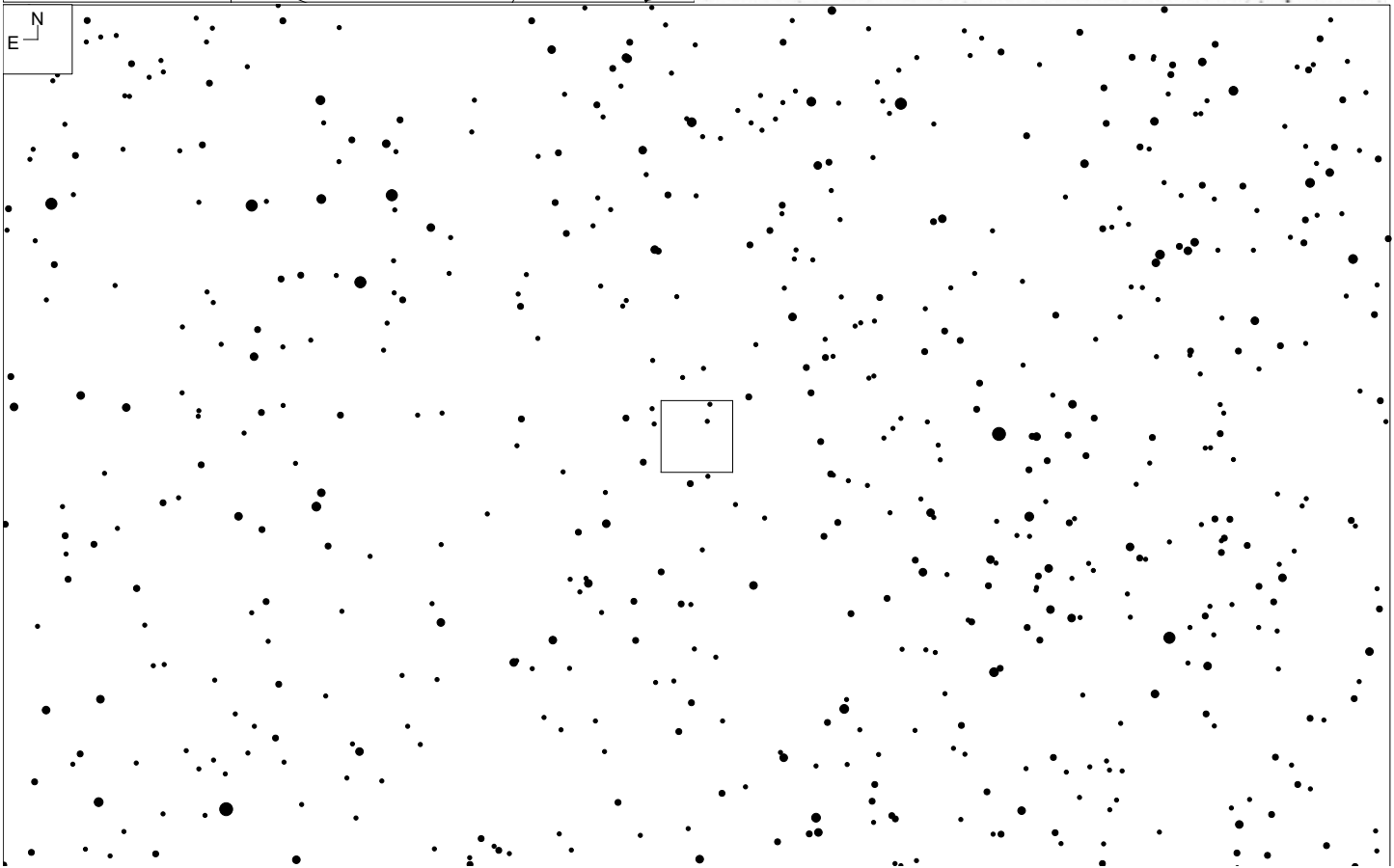
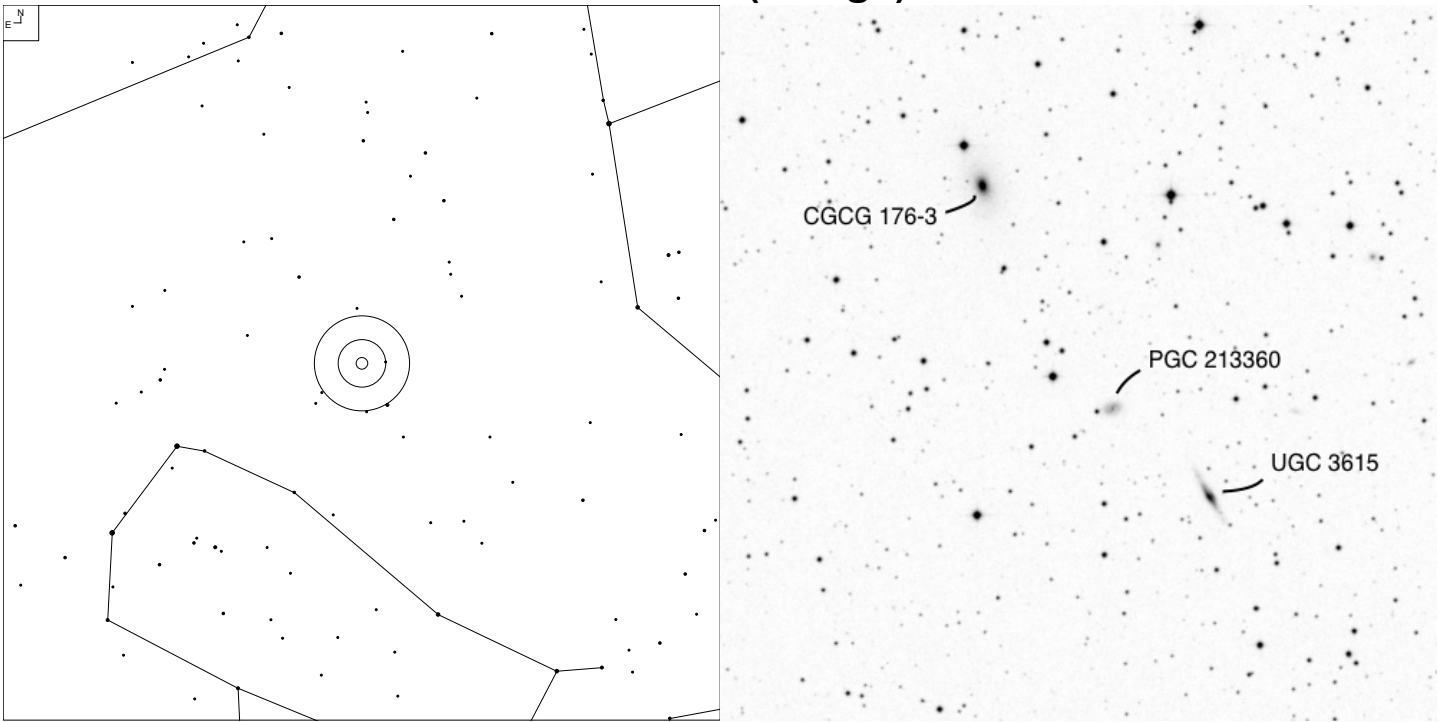
Note: The Catalog name IRAS 06370+3623 is the entire triple system while the 2MASX designations are the individual galaxies.

UGC 3532 (Auriga)



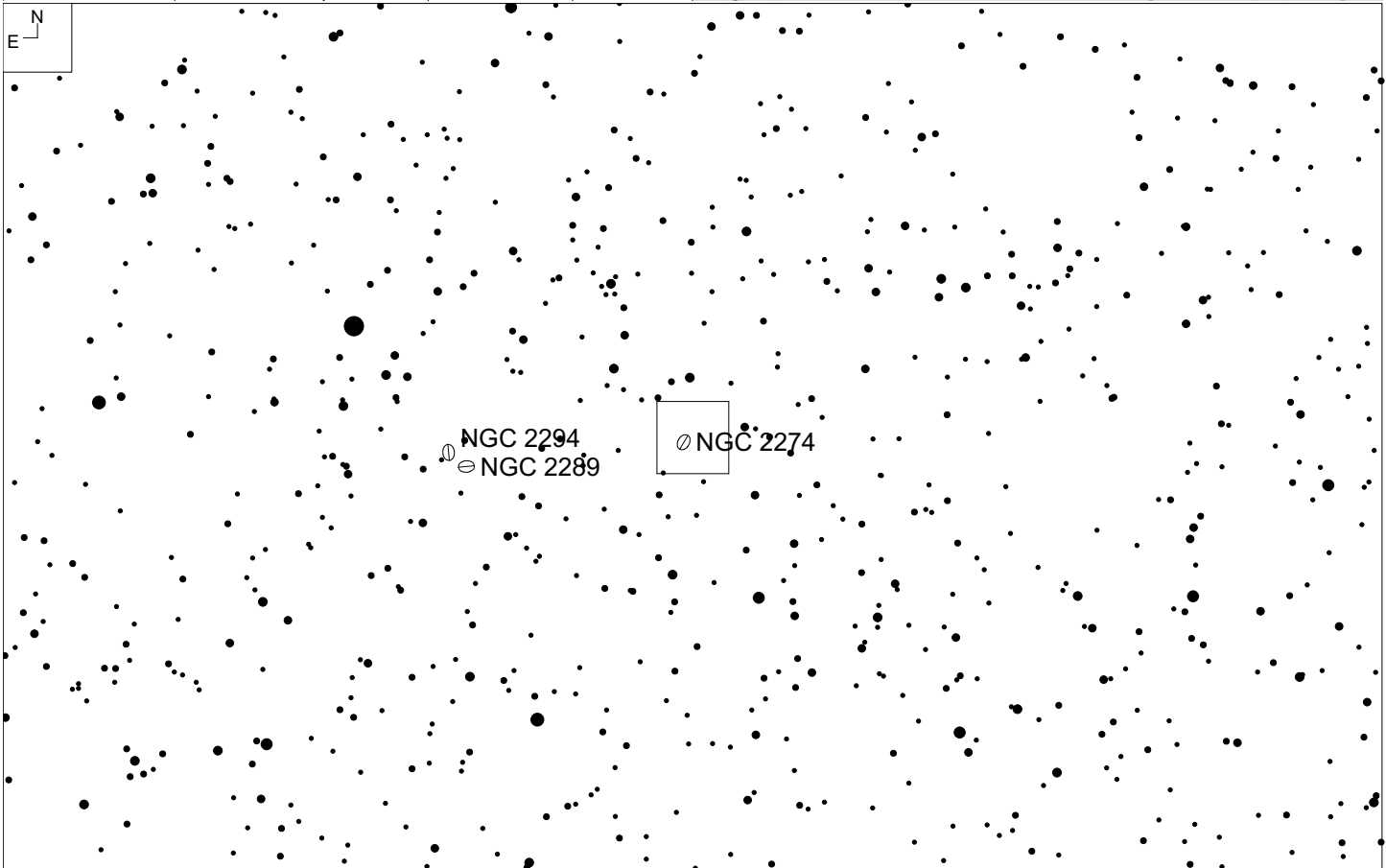
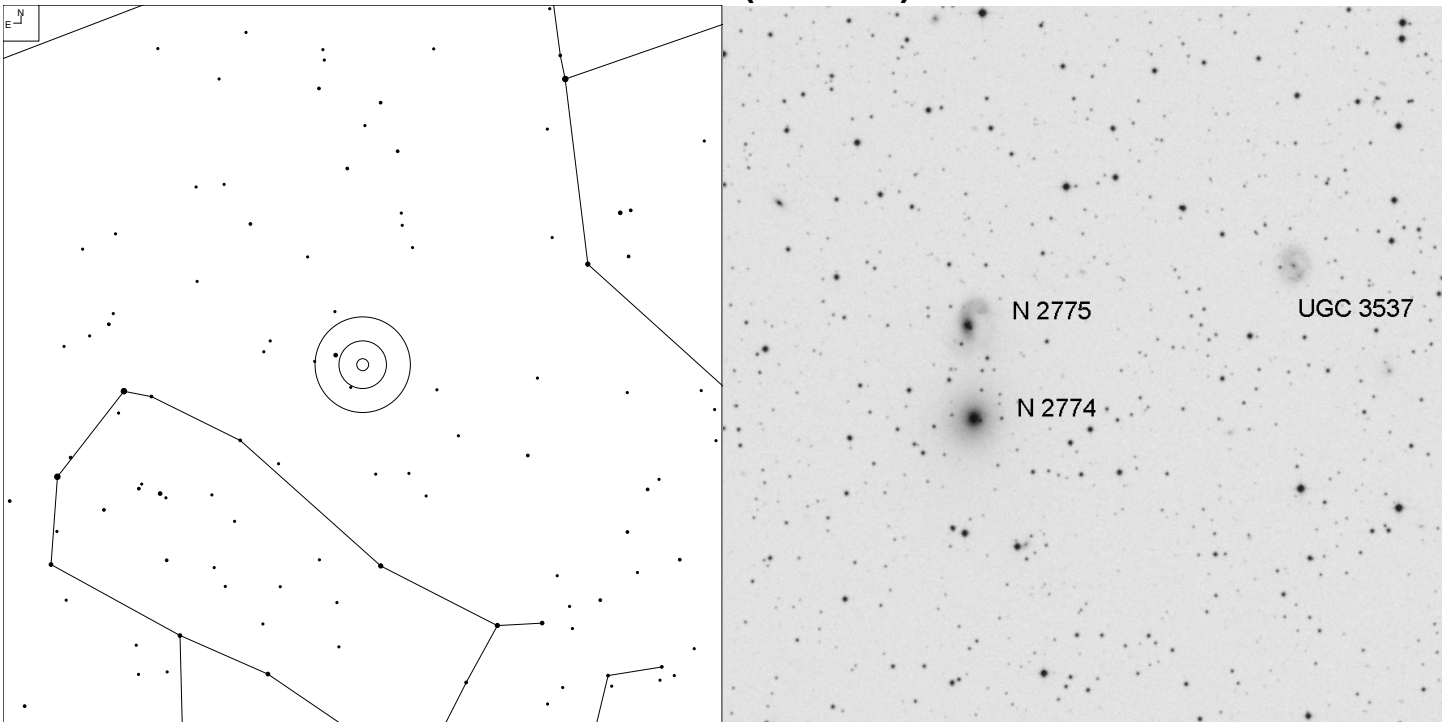
Object (KTG 12)	RA	Dec	Mag	Size
UGC 3532	06 46 12.4	+43 47 33	15.0p	1.4 x 0.5'
UGC 3535			14.5p	1.2 x 0.8'
CGCG 204-13			15.9	0.4 x 0.2'

UGC 3615 (Auriga)



Object	RA	Dec	Mag	Size
UGC 3615	06 57 59.2	+35 44 00	15.3p	1.4 x 0.2'
CGCG 176-3			14.7	1.0 x 0.7'
PGC 213360			16.0	0.5 x 0.3'

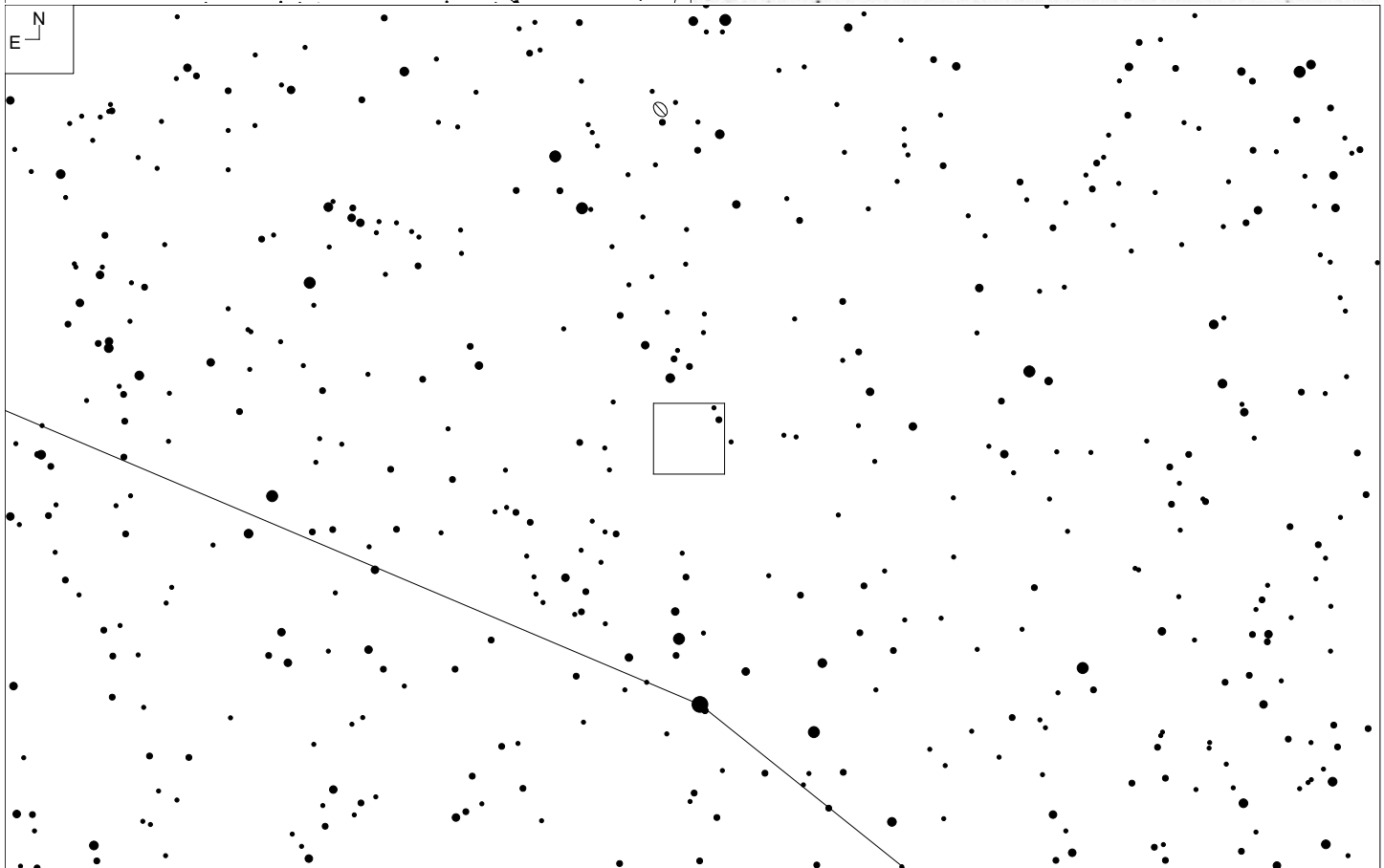
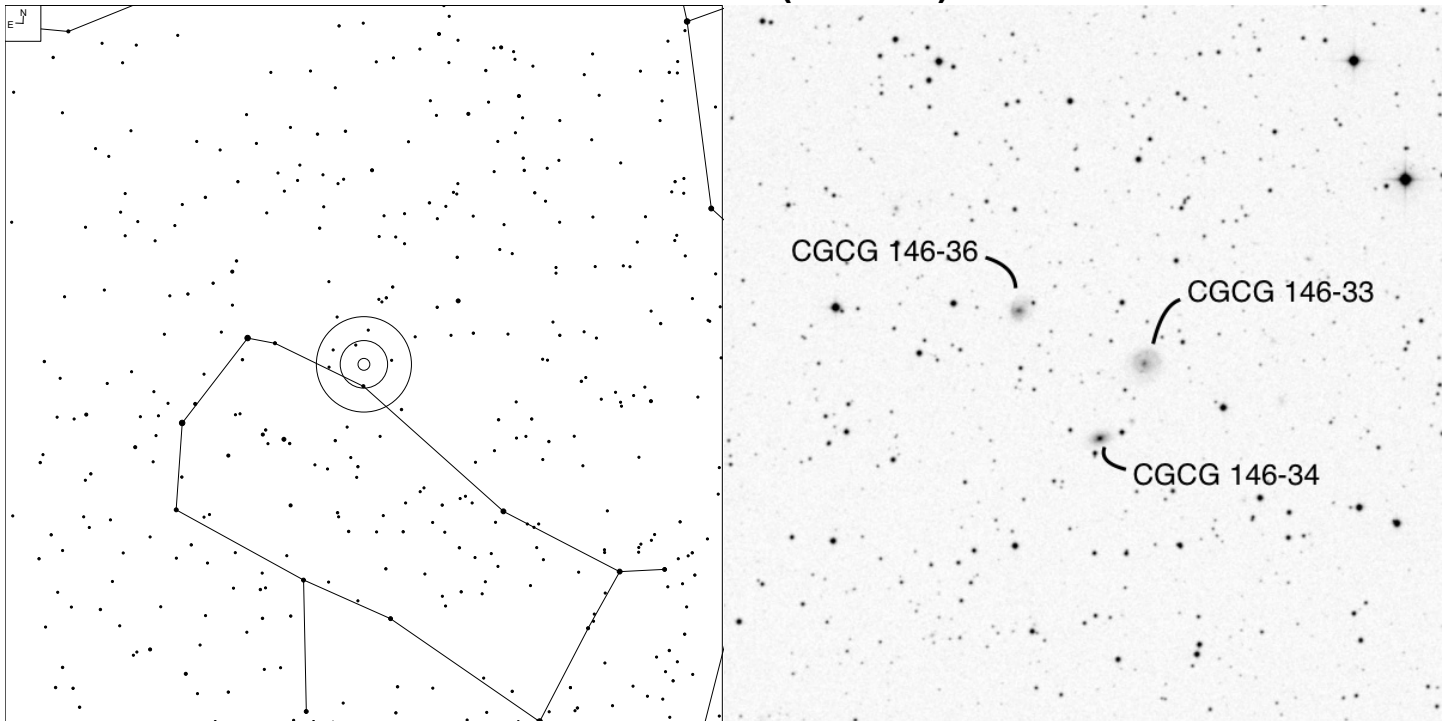
NGC 2274 (Gemini)



Object	RA	Dec	Mag	Size
NGC 2274	06 47 17.3	+33 34 01	13.1p	1.2 x 1.0'
NGC 2275			14.1p	1.3 x 1.0'
UGC 3537			14.7p	0.8 x 0.8'

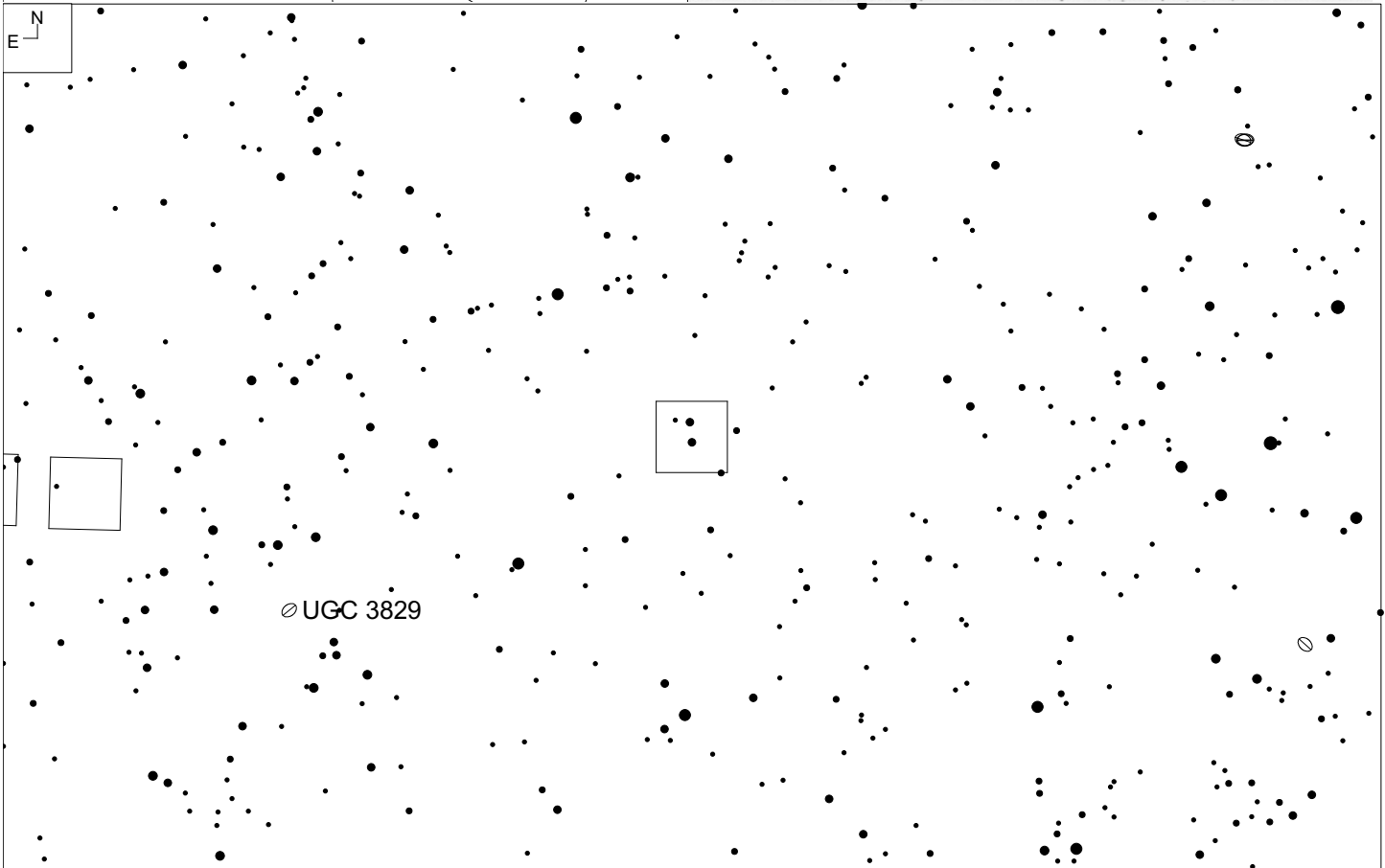
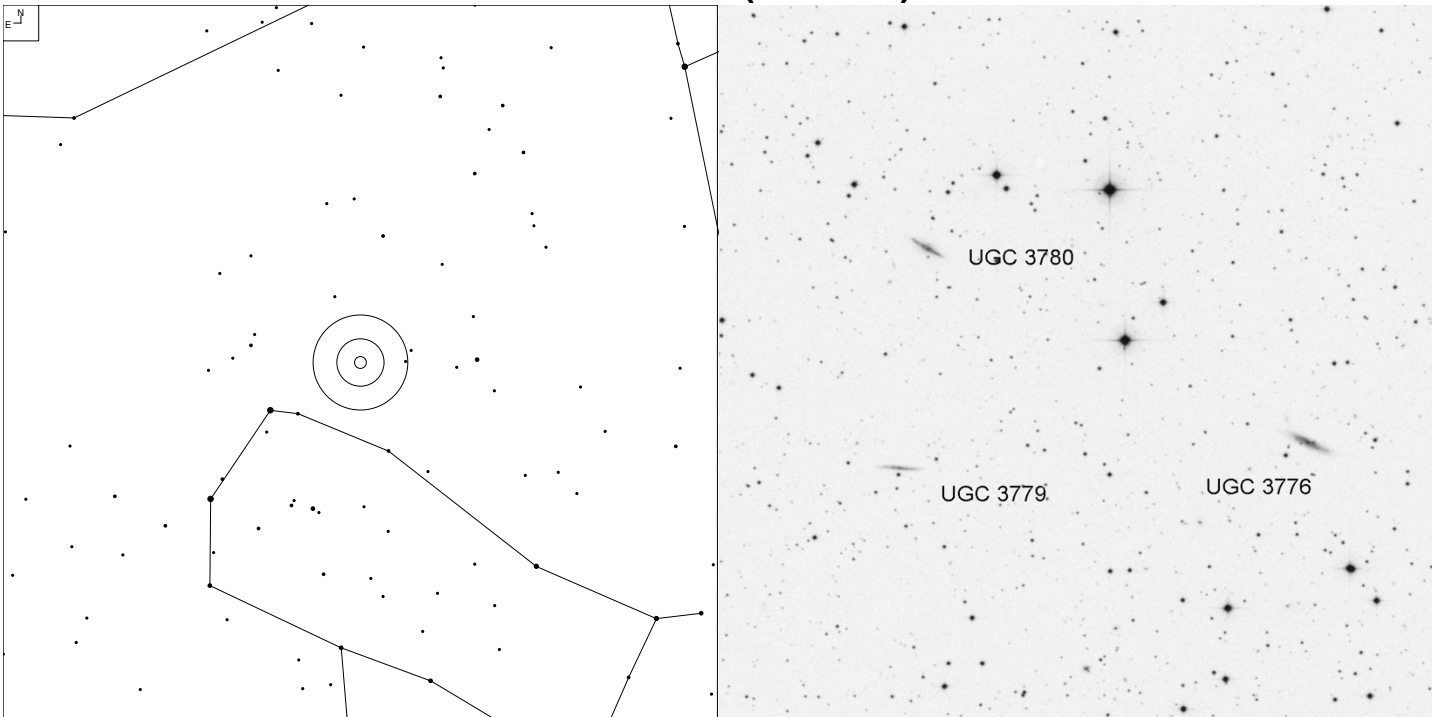
Miles Paul trio

CGCG 146-33 (Gemini)



Object (KTG 15)	RA	Dec	Mag	Size
CGCG 146-33	07 11 15.6	+31 10 15	15.0	0.8 x 0.7'
CGCG 146-34			15.7	0.5 x 0.3'
CGCG 146-36			15.4	0.5 x 0.5'

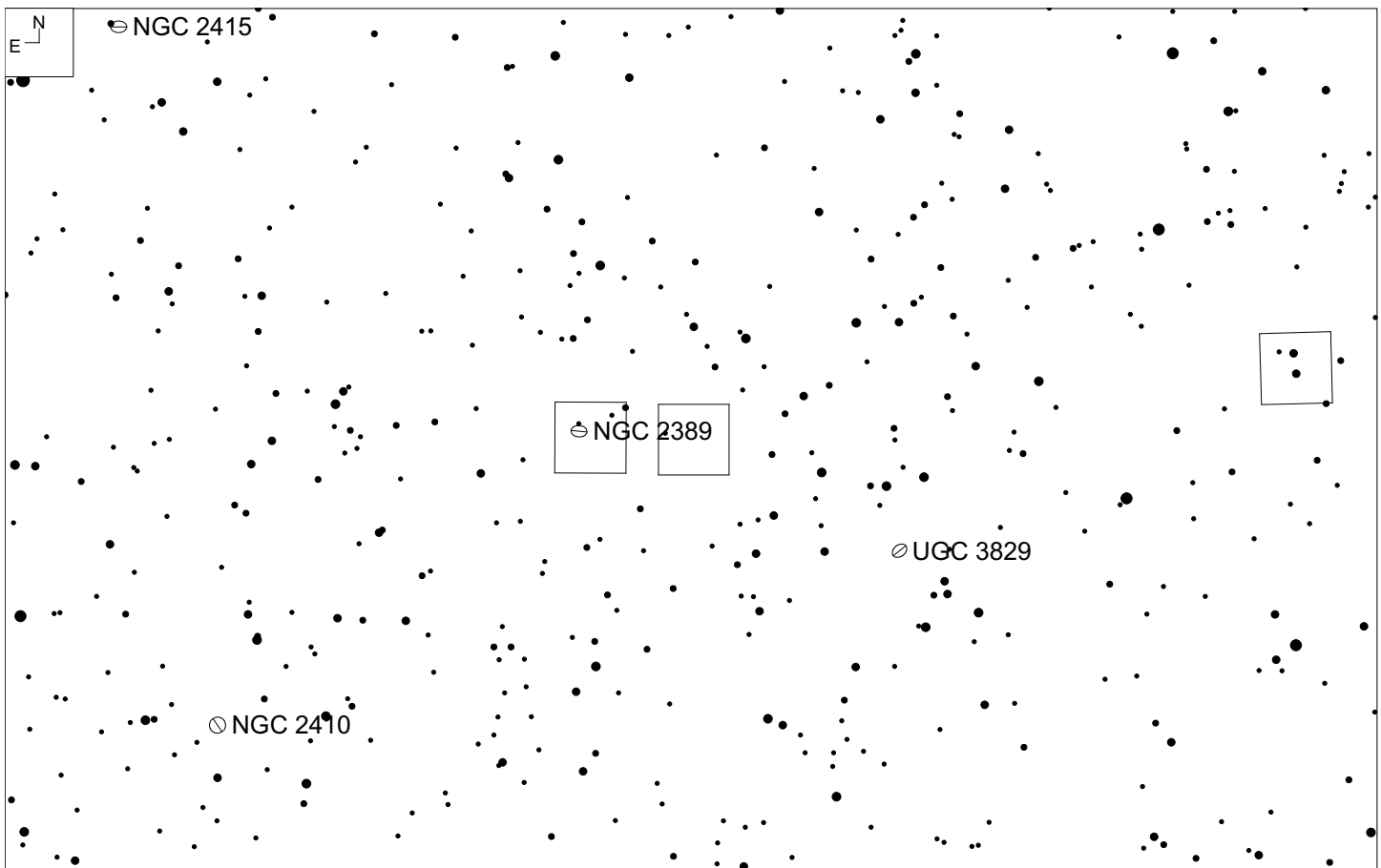
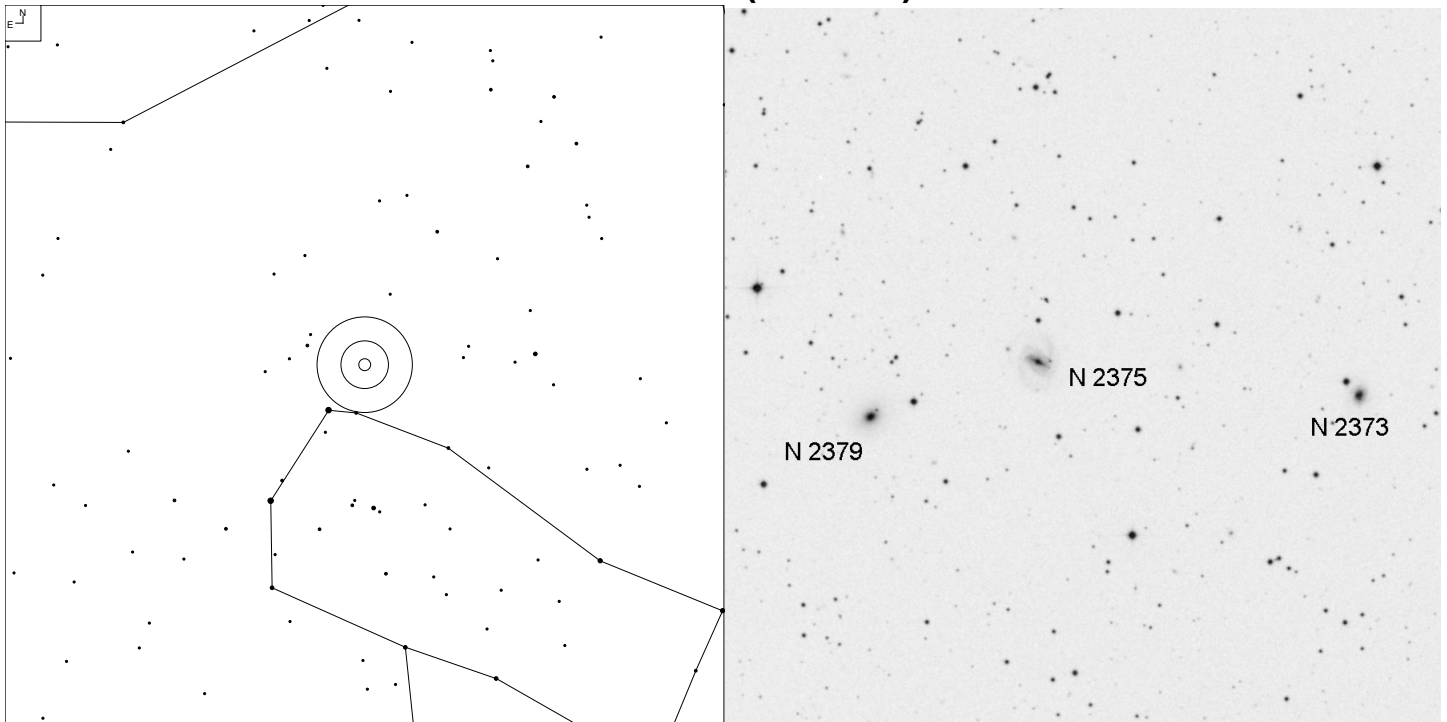
UGC 3776 (Gemini)



Object (KTG 16)	RA	Dec	Mag	Size
UGC 3776	07 16 38.8	+33 59 17	14.3p	1.7 x 0.4'
UGC 3780			14.9p	1.1 x 0.3'
UGC 3779			15.4p	1.4 x 0.2'

Miles Paul trio

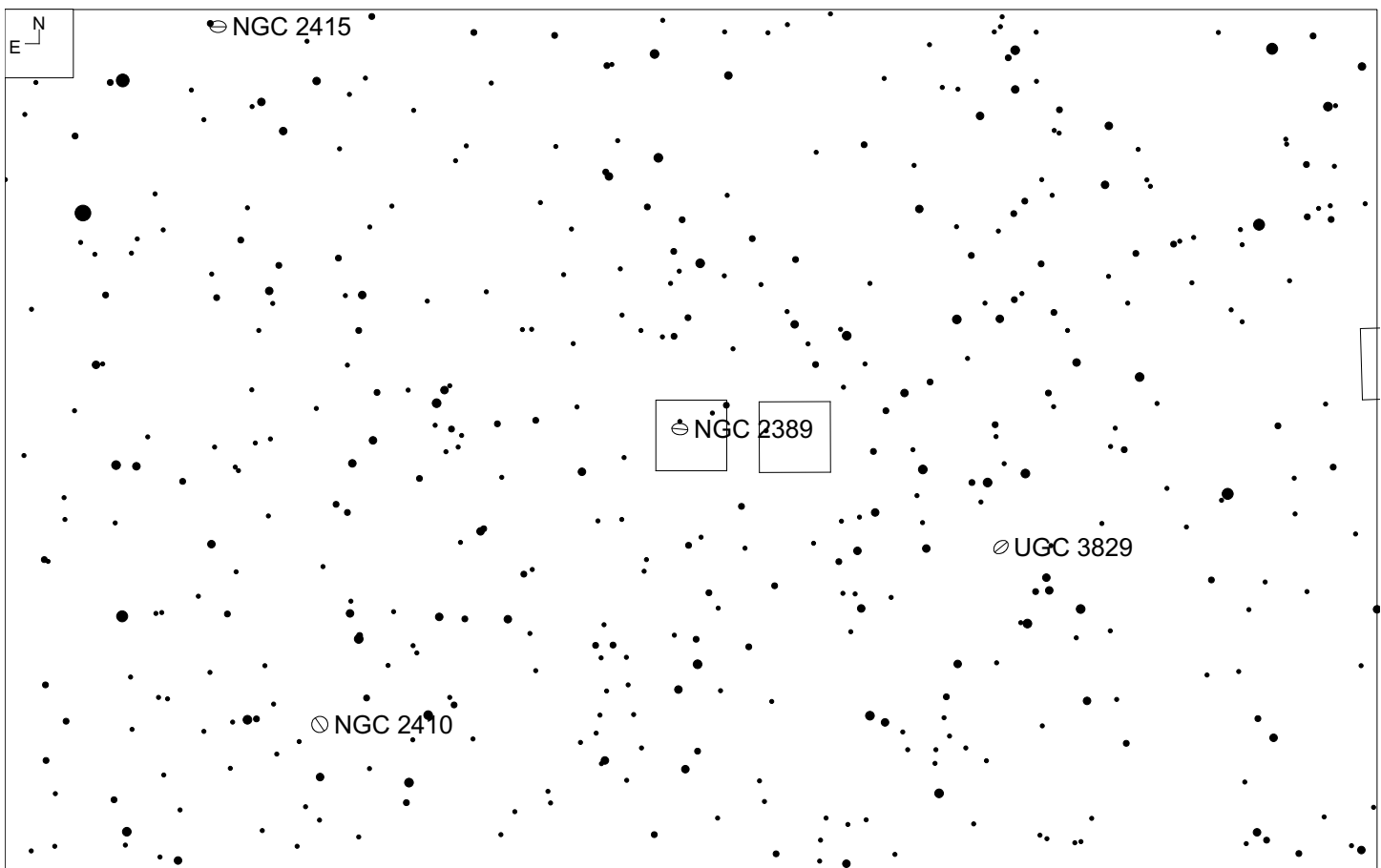
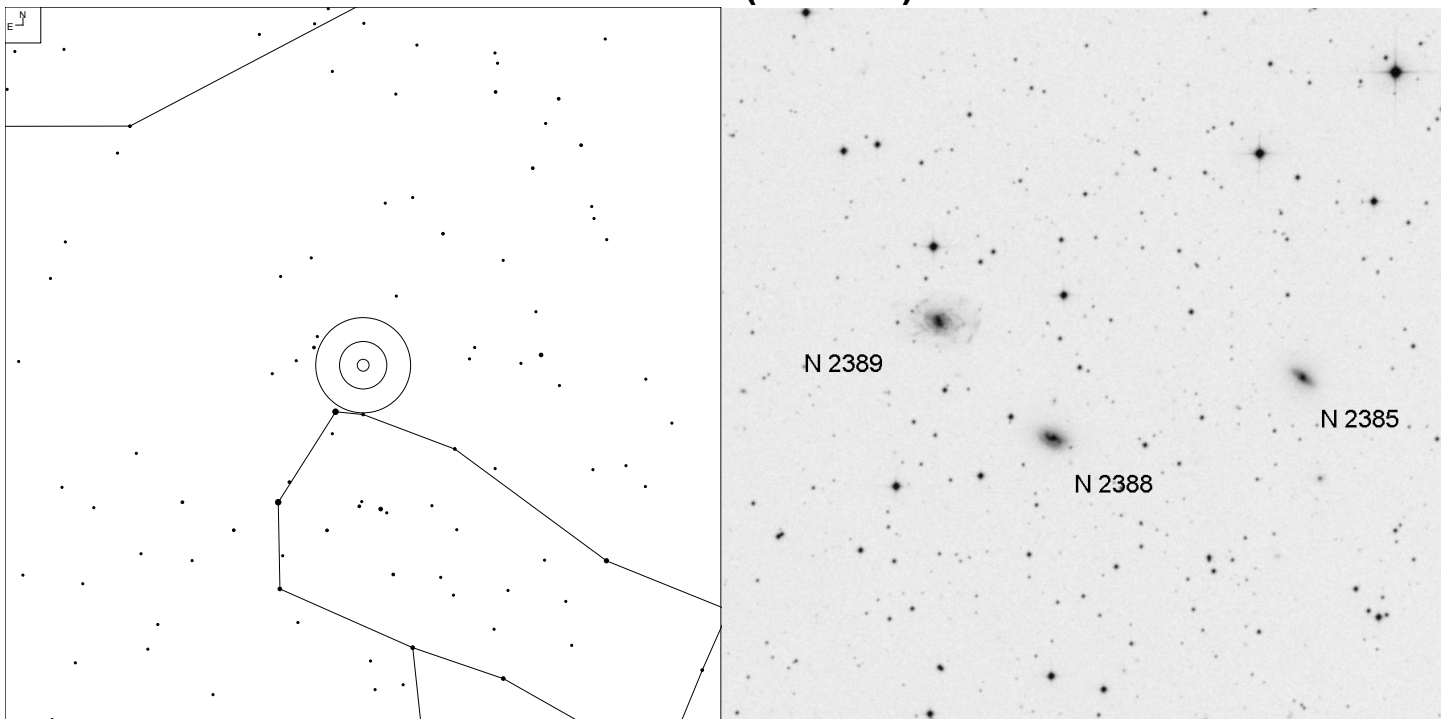
NGC 2379 (Gemini)



Object	RA	Dec	Mag	Size
NGC 2379	07 27 26.4	+33 48 41	14.5b	0.9 x 0.8'
NGC 2375			14.4p	1.5 x 1.1'
NGC 2373			14.7p	0.7 x 0.6'

Miles Paul and Astronomical League trio

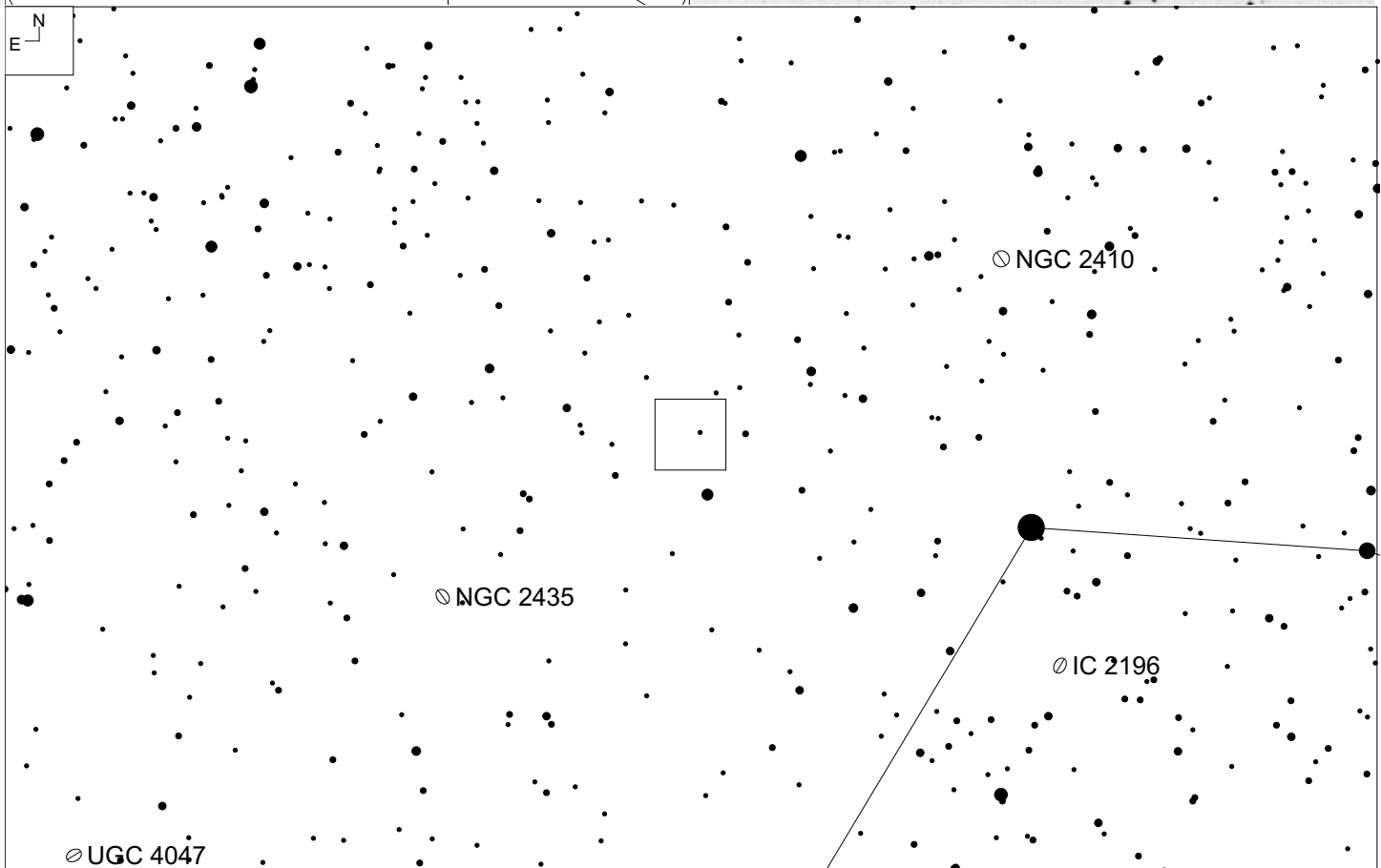
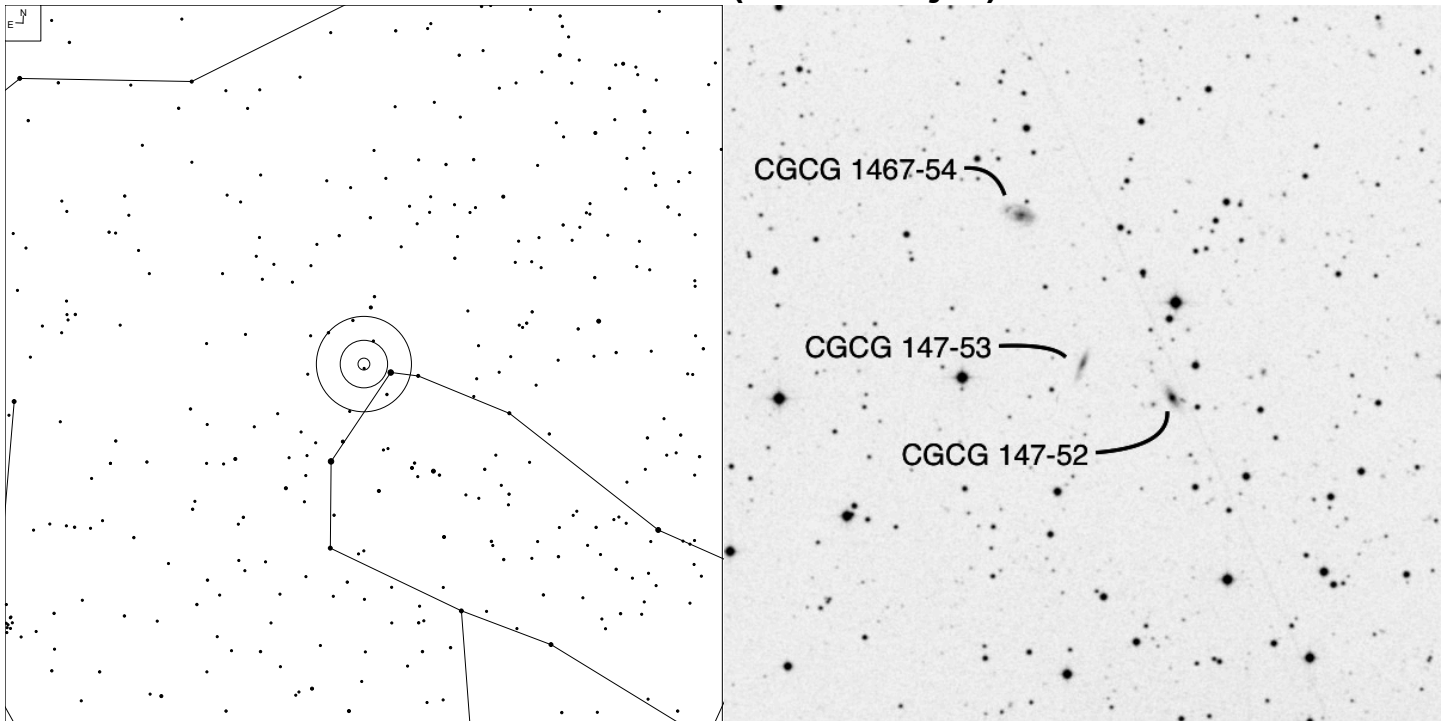
NGC 2389 (Gemini)



Object	RA	Dec	Mag	Size
NGC 2389	07 29 04.9	+33 51 37	13.4b	2.0 x 1.3'
NGC 2388			14.7p	1.2 x 0.9'
NGC 2385			15.2	1.0 x 0.7'

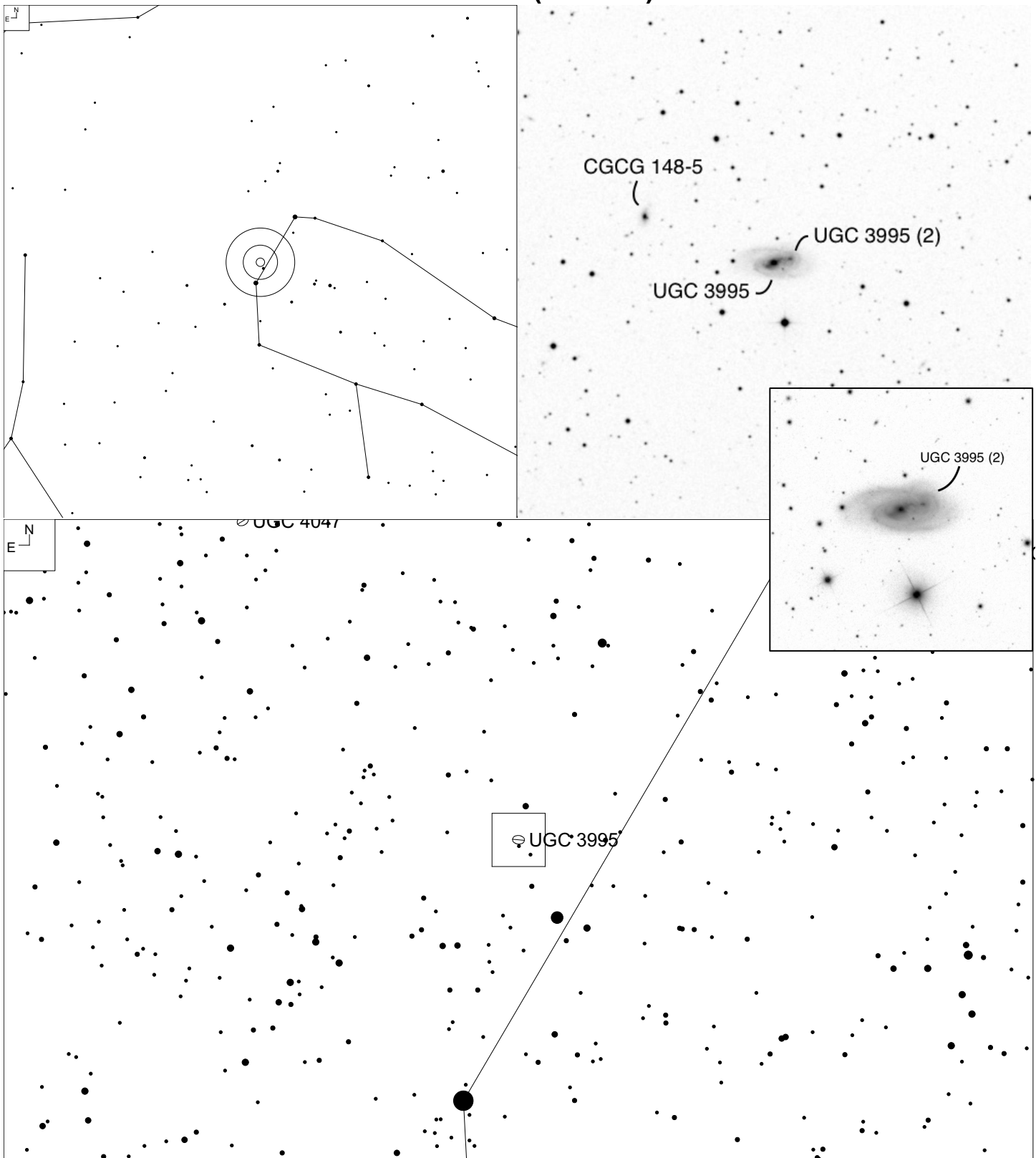
Miles Paul and Astronomical League trio

CGCG 147-52 (Canis Major)



Object (KTG 17)	RA	Dec	Mag	Size
CGCG 147-52	07 40 01.4	+32 11 39	15.5	0.5 x 0.2'
CGCG 147-53			15.6	0.6 x 0.2'
CGCG 147-54			15.3	0.9 x 0.6'

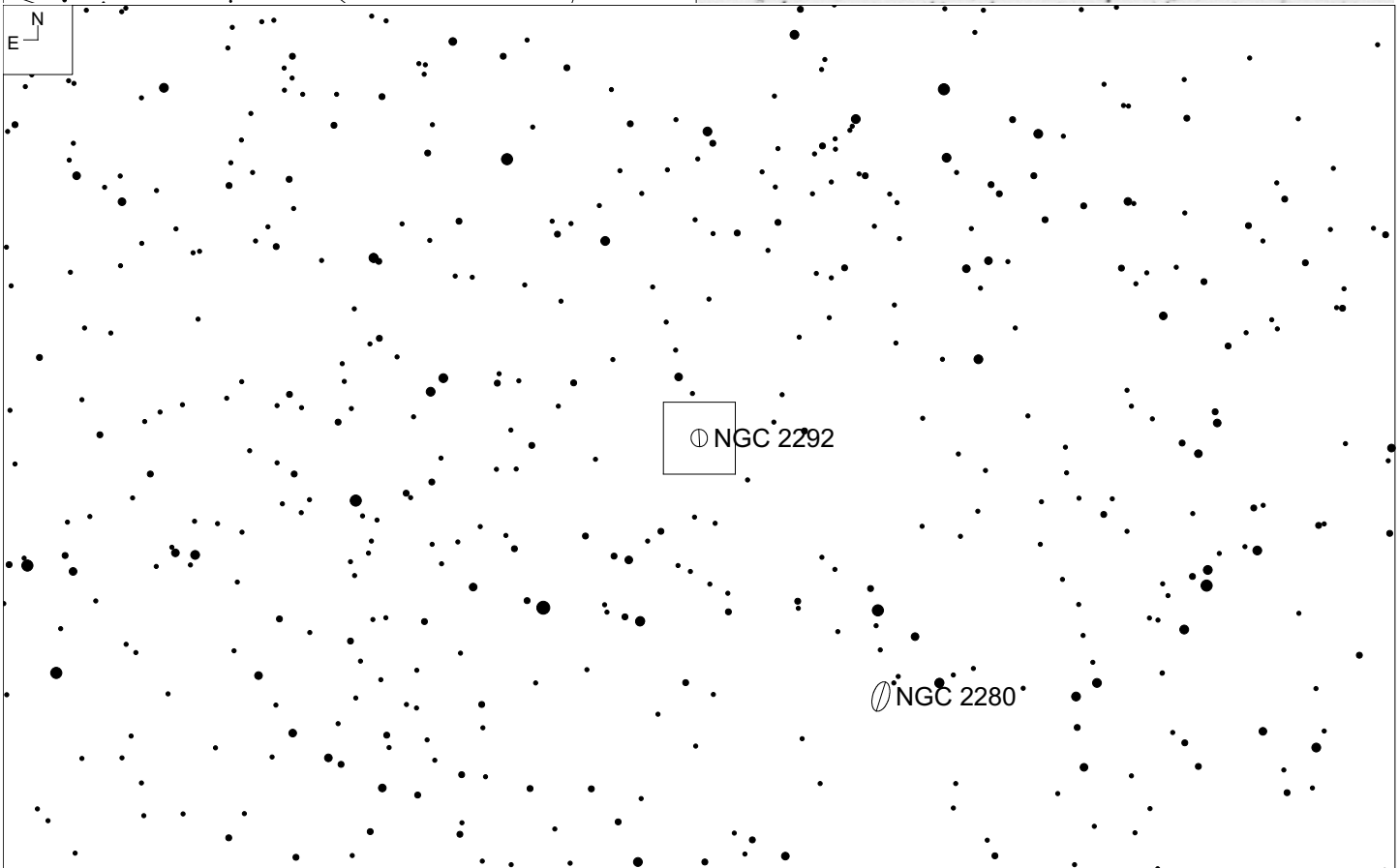
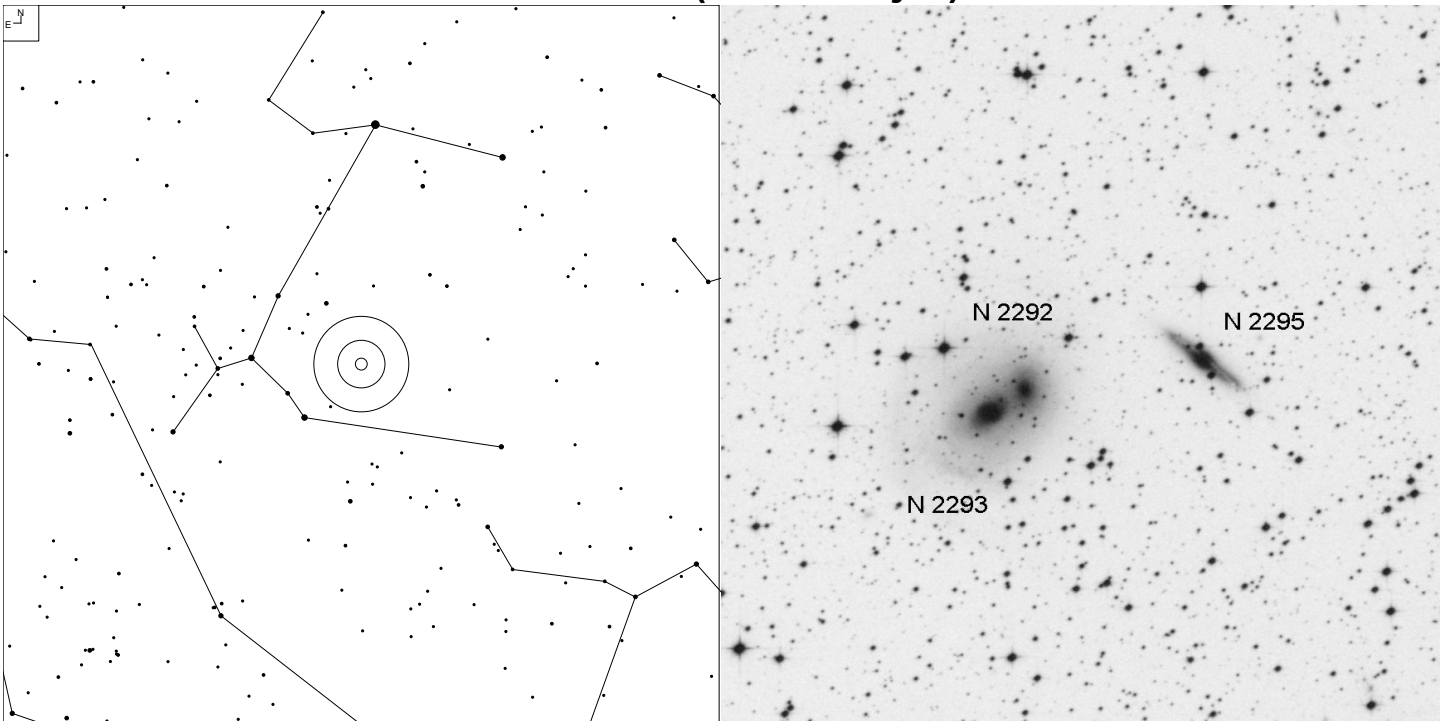
UGC 3995 (Gemini)



Object (KTG 18)	RA	Dec	Mag	Size
UGC 3995	07 44 11.5	+29 14 26	13.3	2.5 x 1.1'
UGC 3995 (2)			14.9*	-
CGCG 147-63			15.5	0.8 x 0.4'

UGC 3995 (2) is a background spiral galaxy.

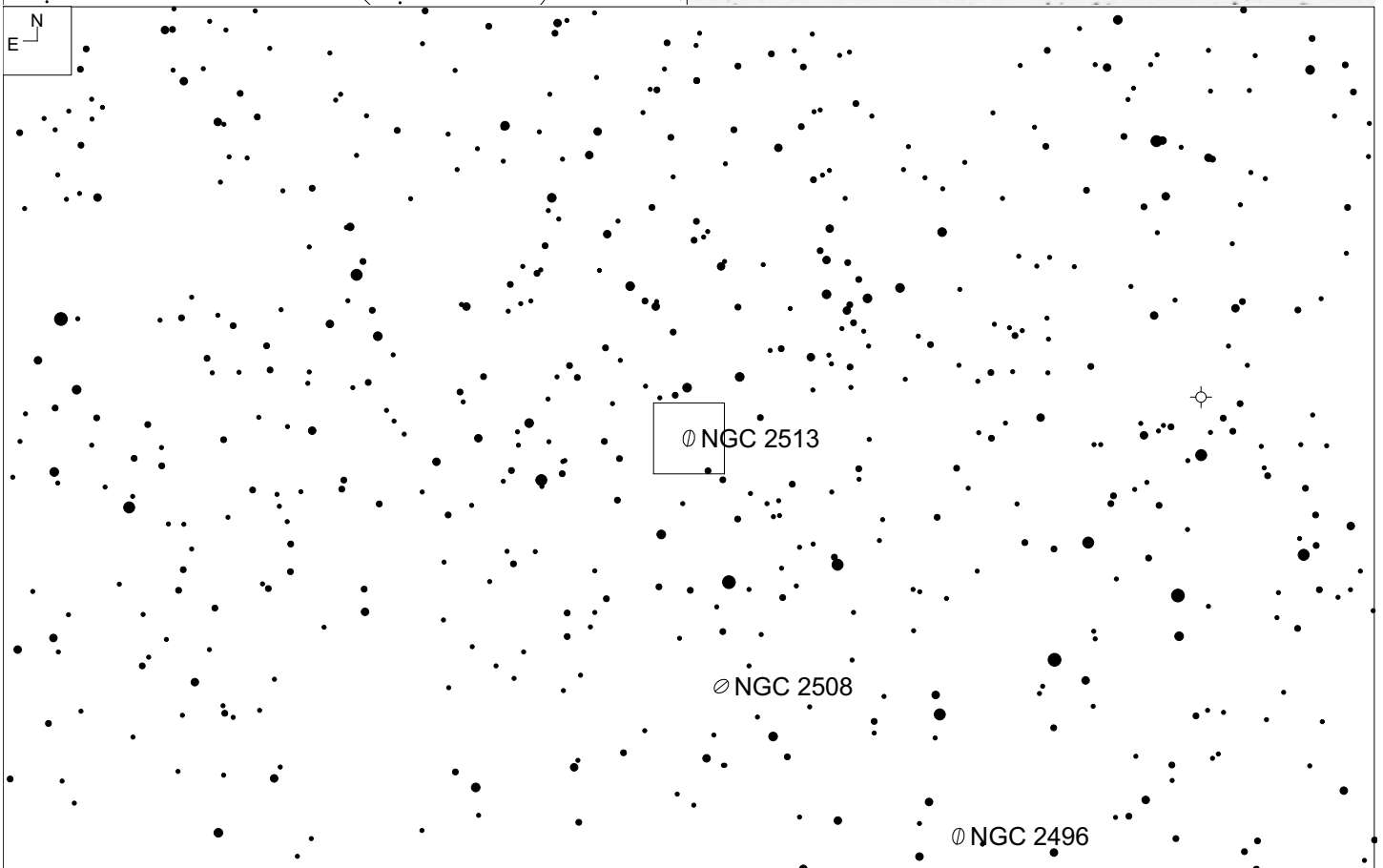
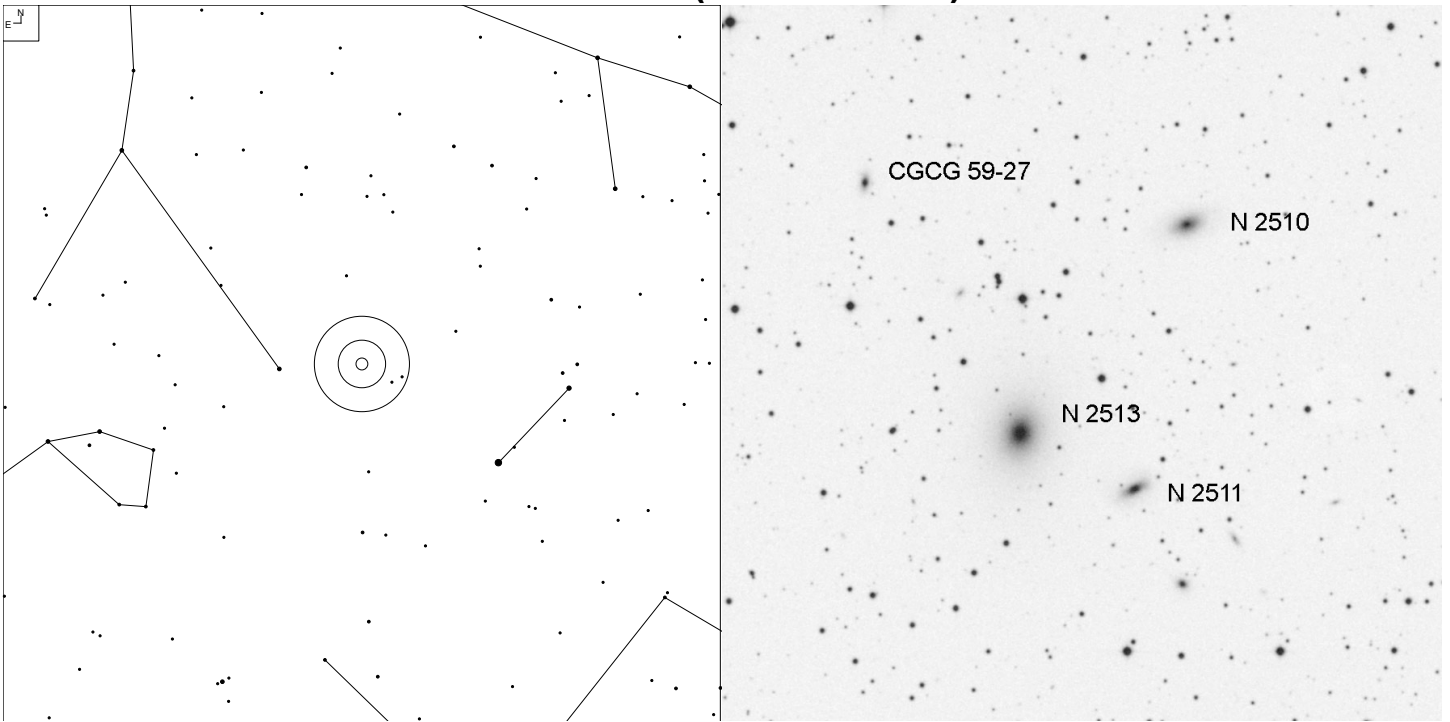
NGC 2292 (Canis Major)



Object	RA	Dec	Mag	Size
NGC 2292	06 47 39.3	-26 44 47	11.8p	3.5 x 2.8'
NGC 2293			12.3b	4.2 x 3.3'
NGC 2295			13.6p	2.1 x 0.6'

Miles Paul and Astronomical League trio

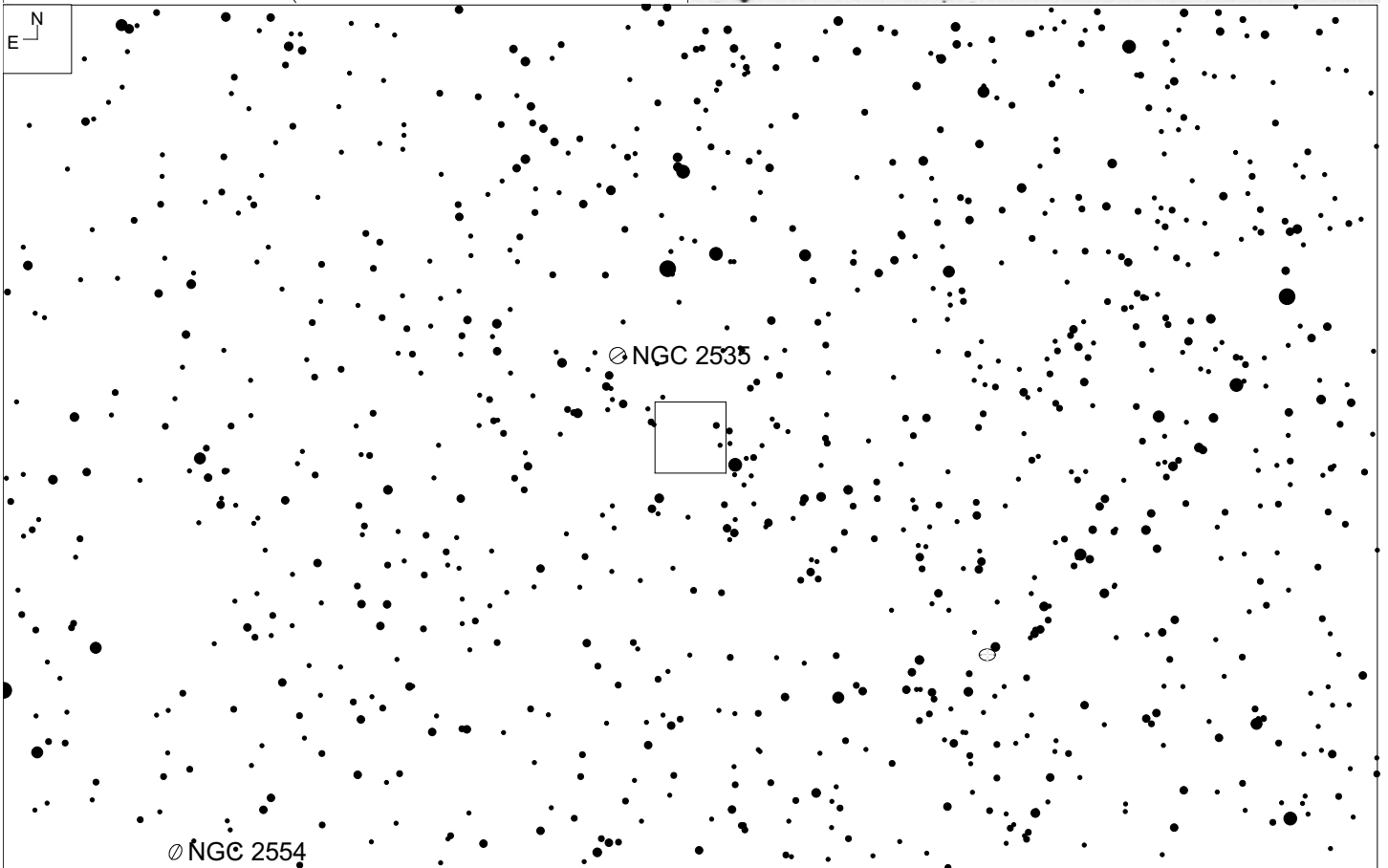
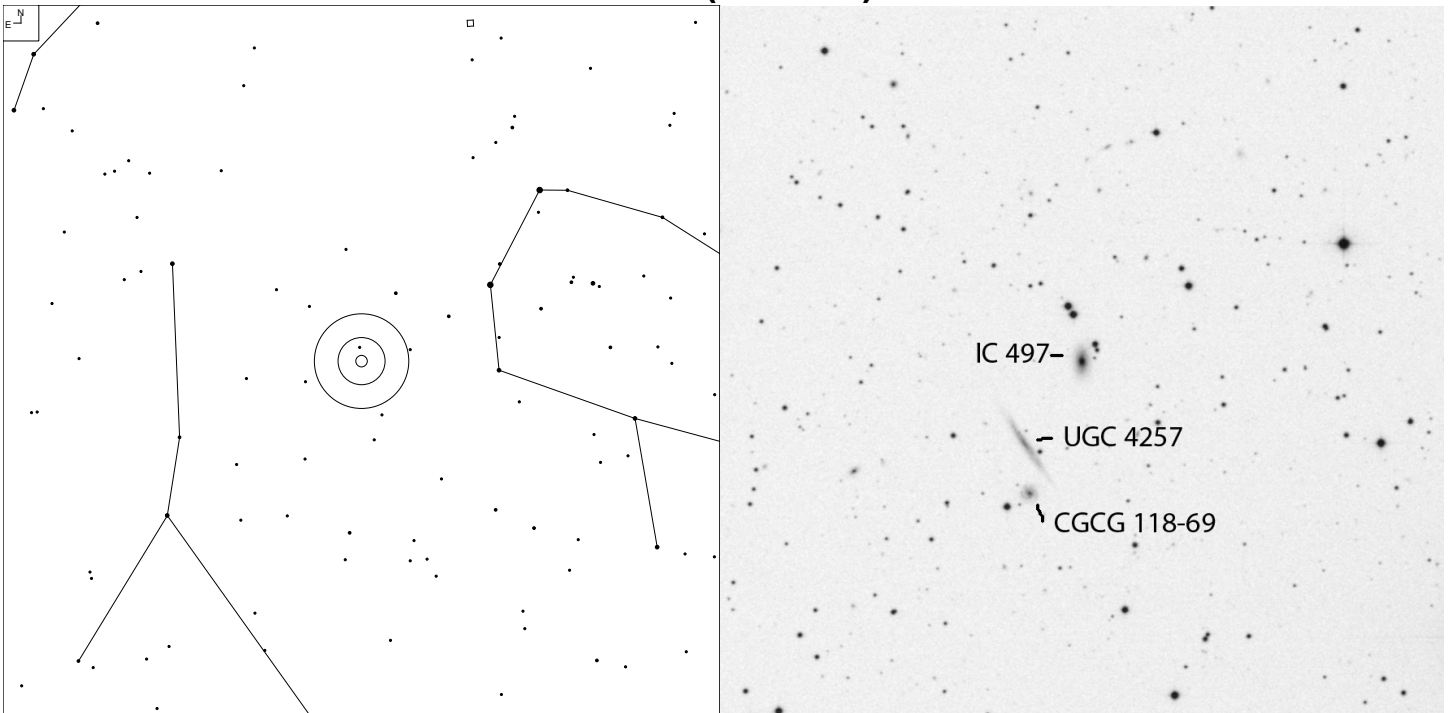
NGC 2513 (Canis Minor)



Object	RA	Dec	Mag	Size
NGC 2513	08 02 24.7	+09 24 50	12.6b	2.5 x 2.0'
NGC 2511			15.1p	0.8 x 0.3'
NGC 2510			14.4p	1.3 x 0.7'

Miles Paul and Astronomical League trio

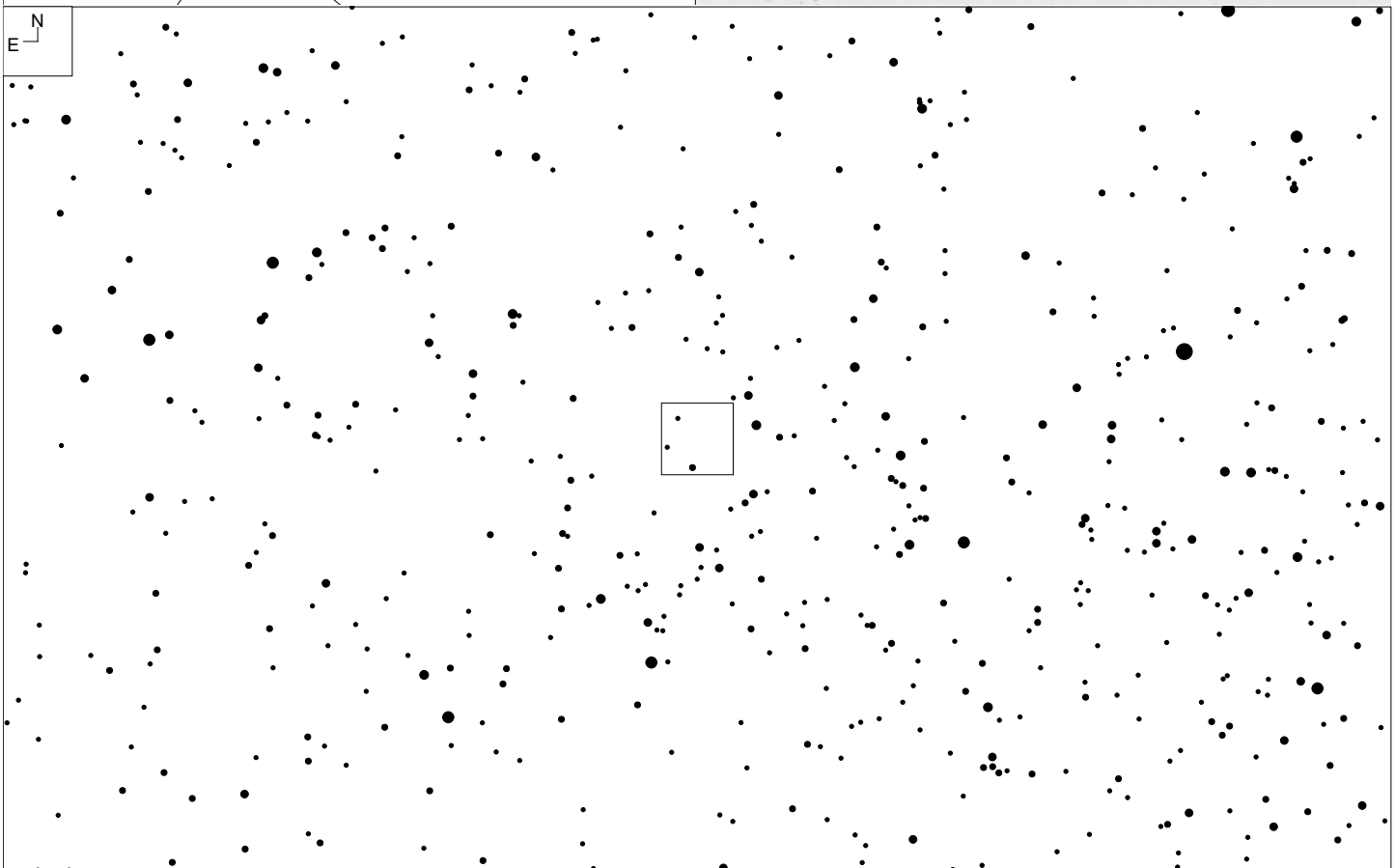
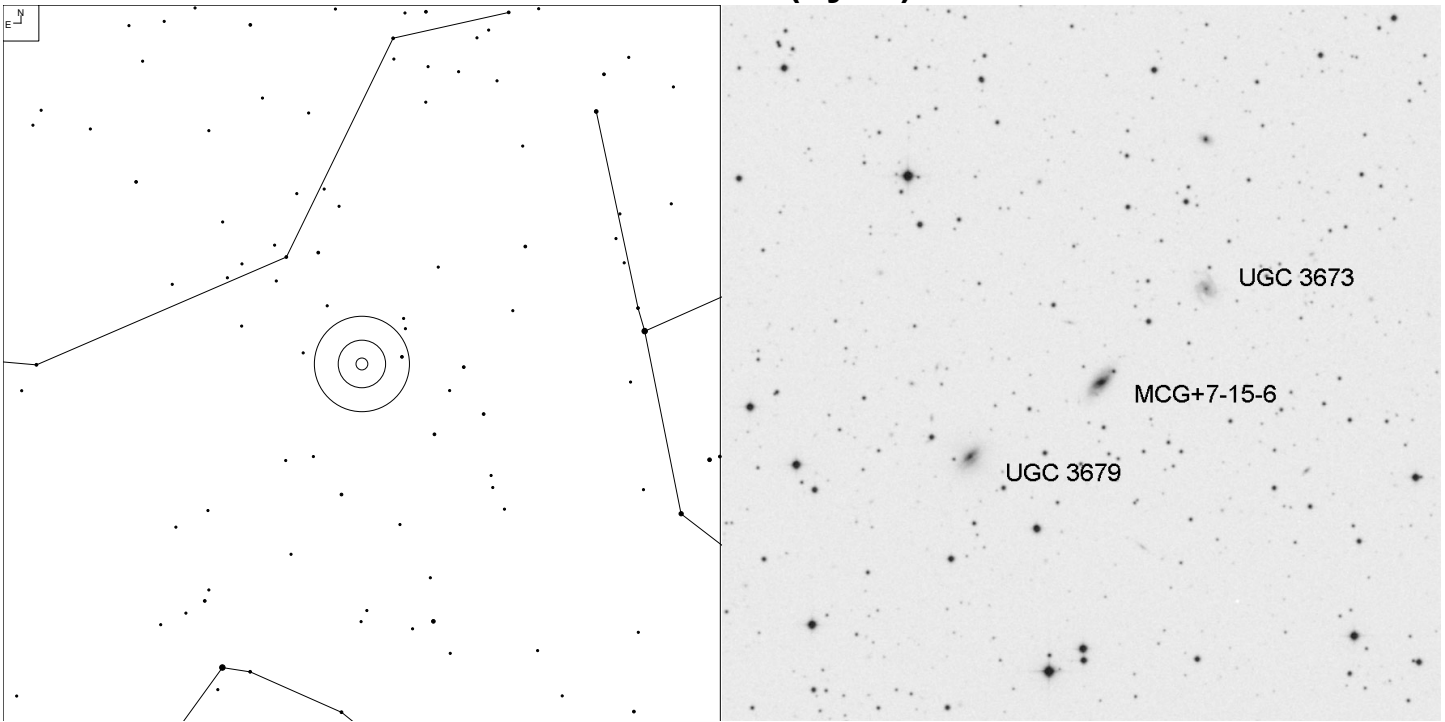
IC 497 (Cancer)



Object (KTG 20)	RA	Dec	Mag	Size
IC 497	08 10 06.1	+24 55 19	15.4	1.0 x 0.4'
UGC 4257			15.2p	2.7 x 0.2'
MCG+4-20-3			15.4	0.5 x 0.5'

Miles Paul trio

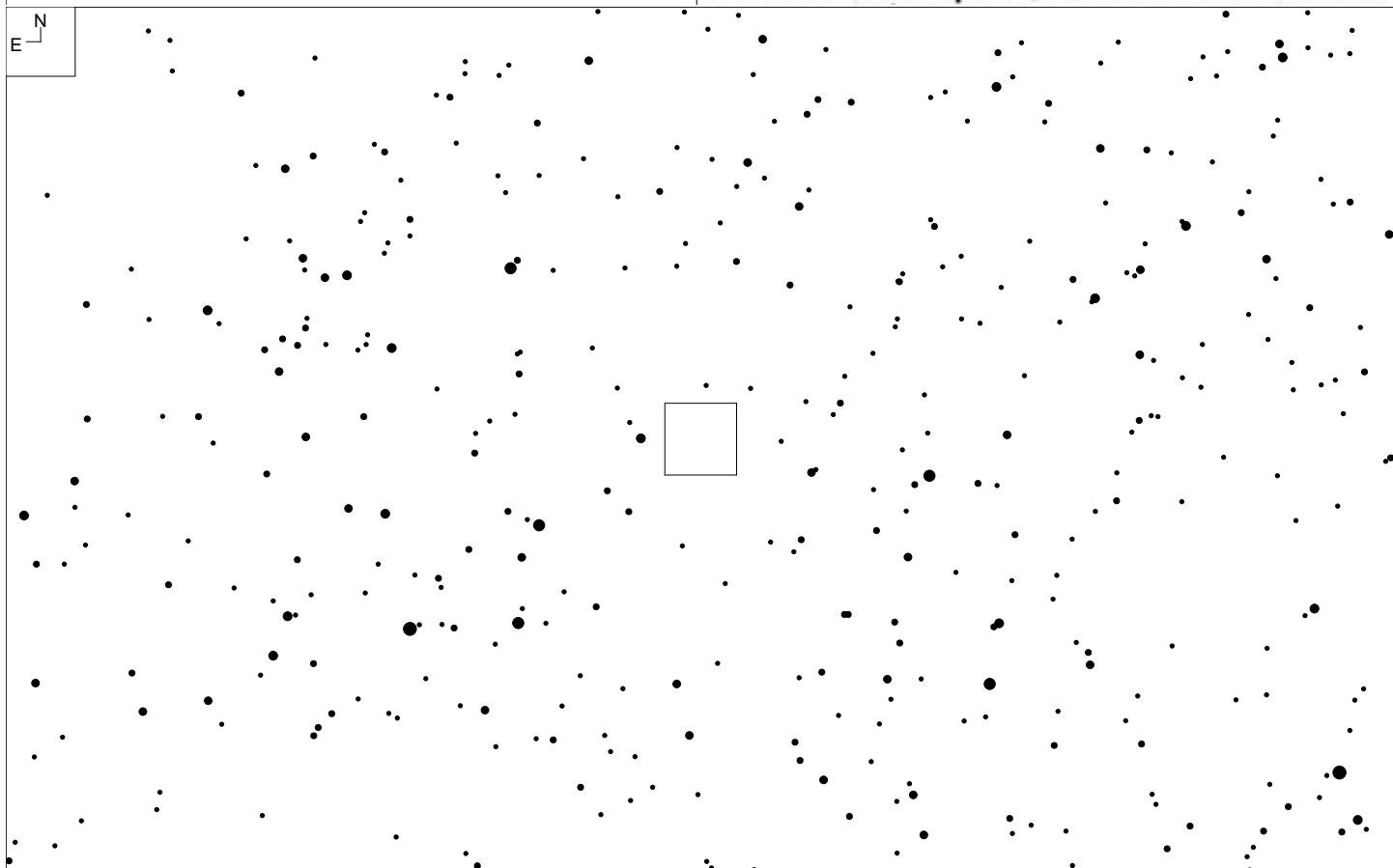
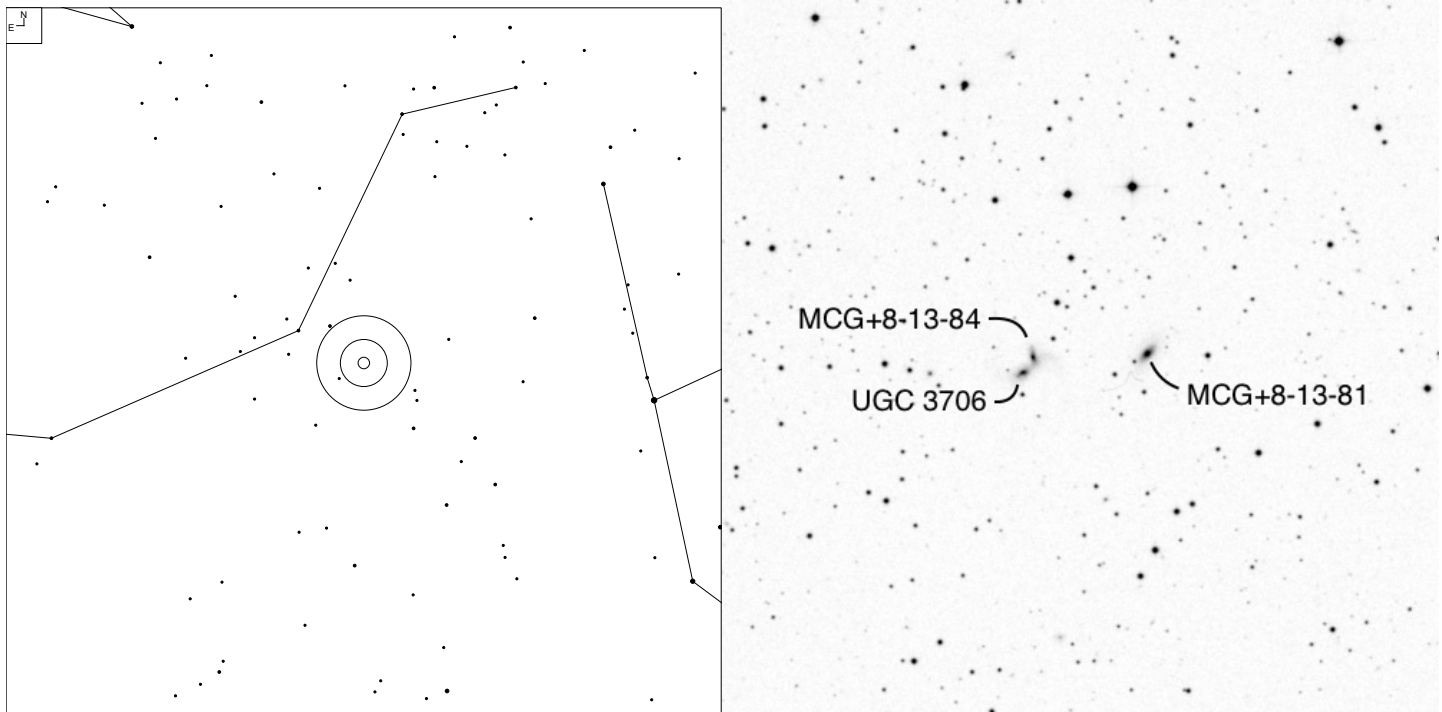
MCG+7-15-6 (Lynx)



Object (KTG 13)	RA	Dec	Mag	Size
MCG+7-15-6	07 07 13.0	+44 49 00	14.8	1.0 x 0.4'
UGC 3673			15.4p	0.9 x 0.7'
UGC 3679			15.2p	1.0 x 0.7'

Miles Paul trio

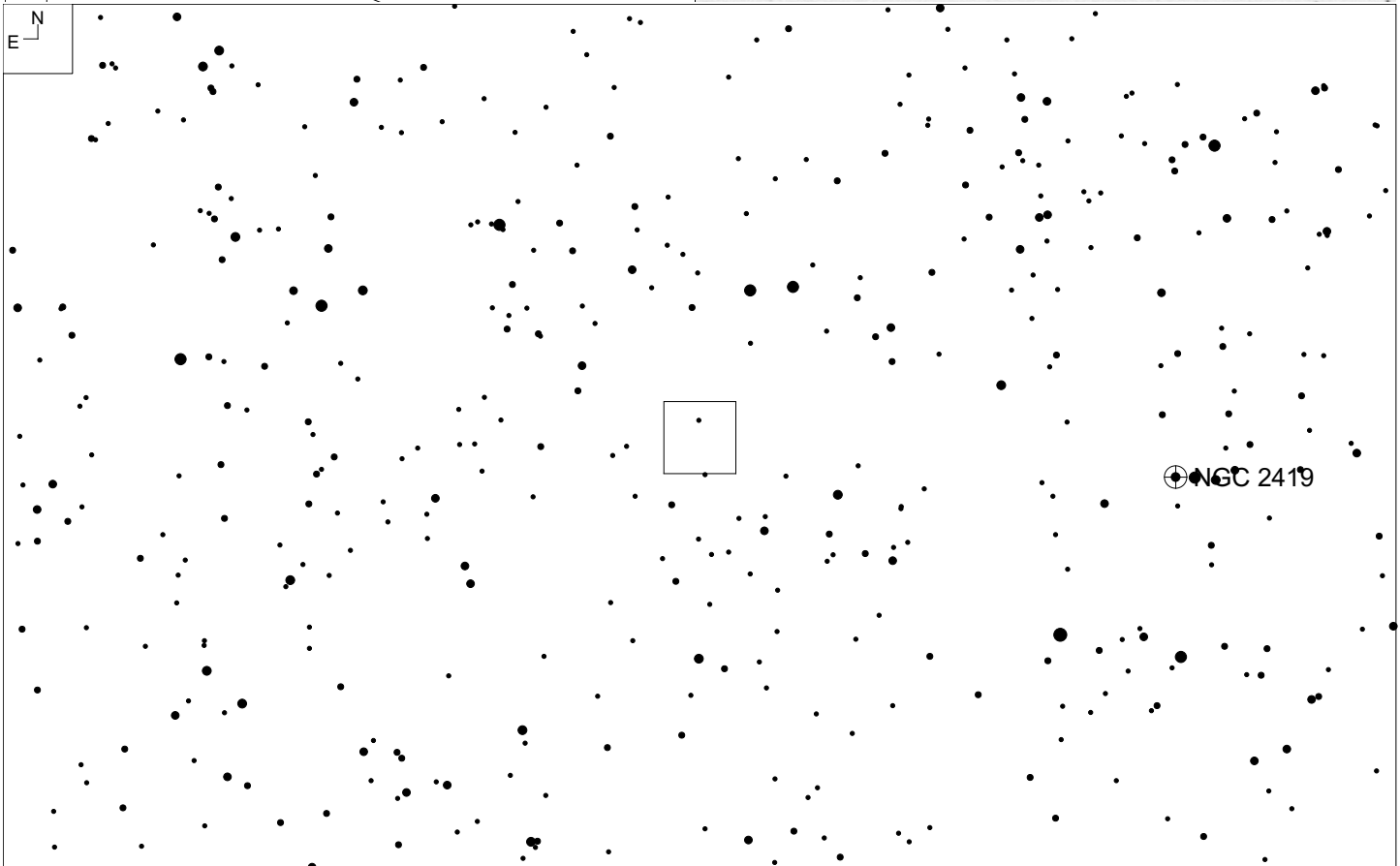
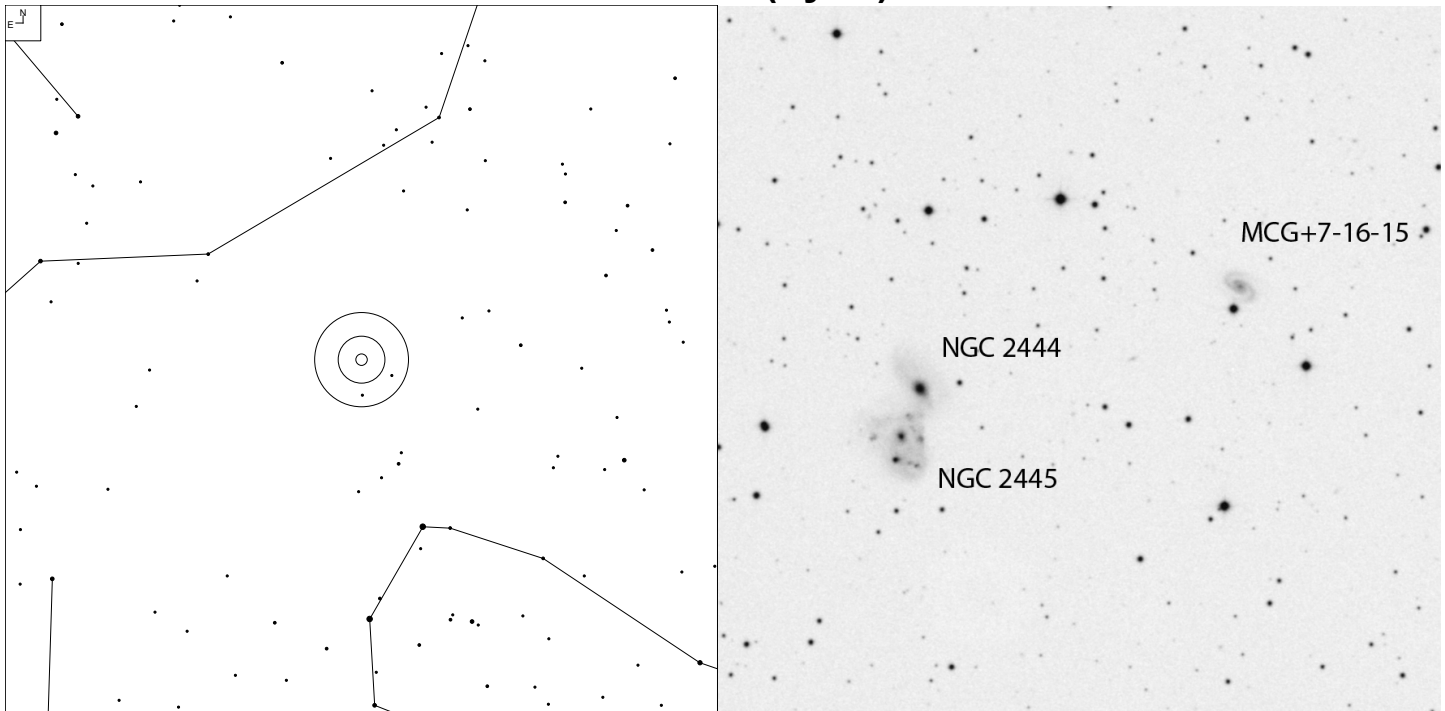
MCG+8-13-81 (Lynx)



Object (KTG 14)	RA	Dec	Mag	Size
MCG+8-13-81	07 09 39.3	+47 54 53	15.3	0.7 x 0.4'
MCG+8-13-85			15.3	1.0 x 0.5'
UGC 3706			14.7	0.6 x 0.4'

Miles Paul trio

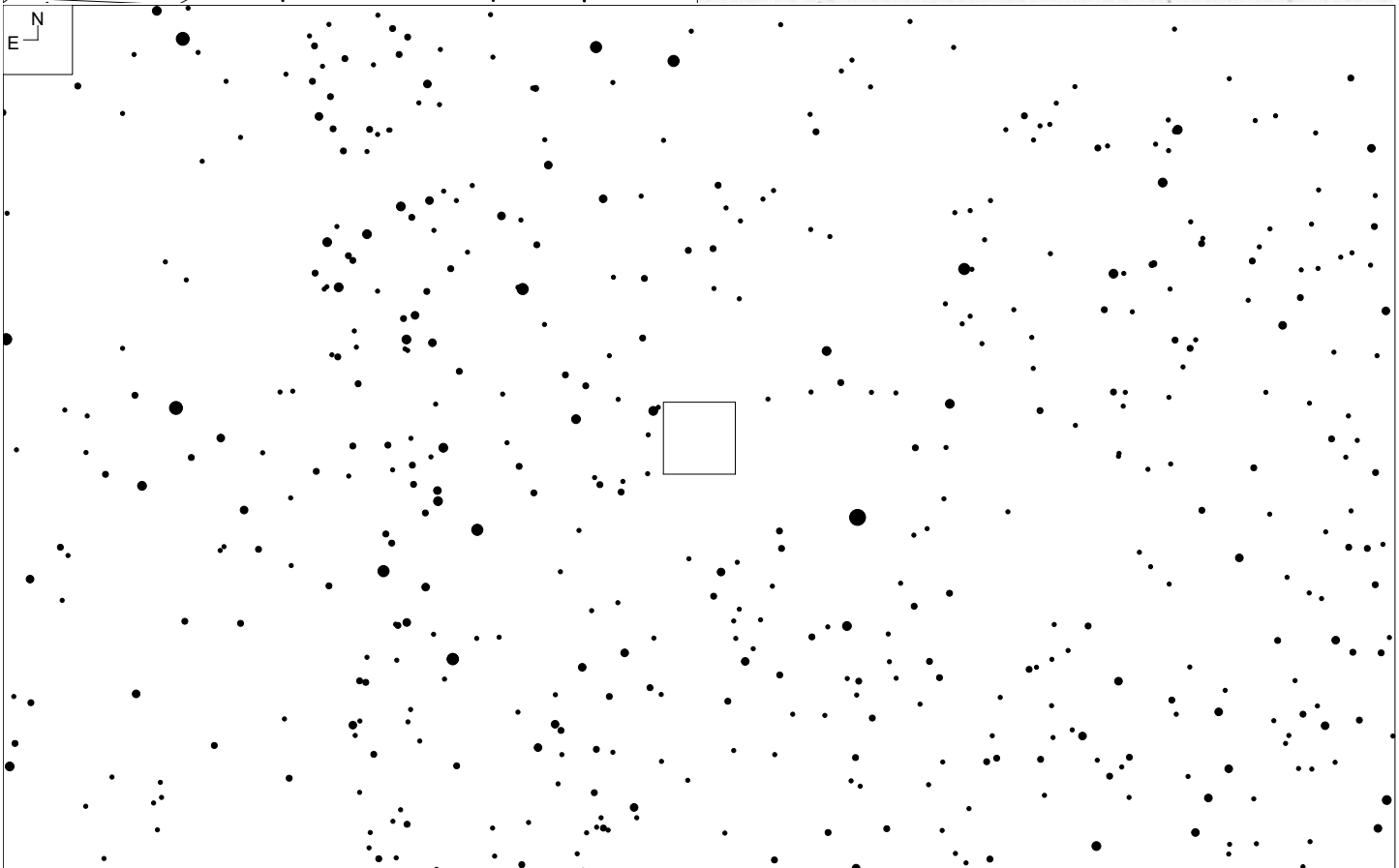
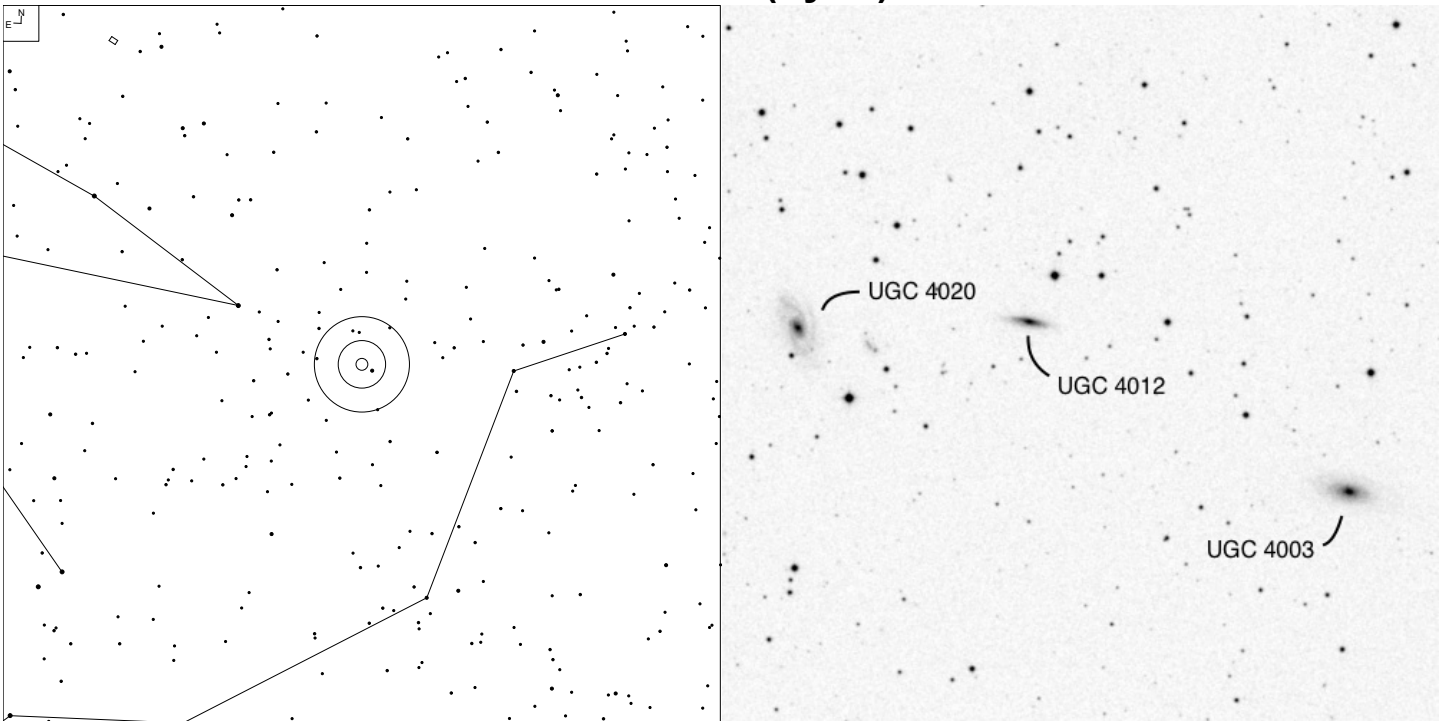
NGC 2444 (Lynx)



Object	RA	Dec	Mag	Size
NGC 2444	07 46 53.2	+39 02 00	14.2b	1.9 x 1.0'
NGC 2445			13.9b	1.8 x 1.2'
MCG+7-16-15			15.1	1.0 x 0.7'

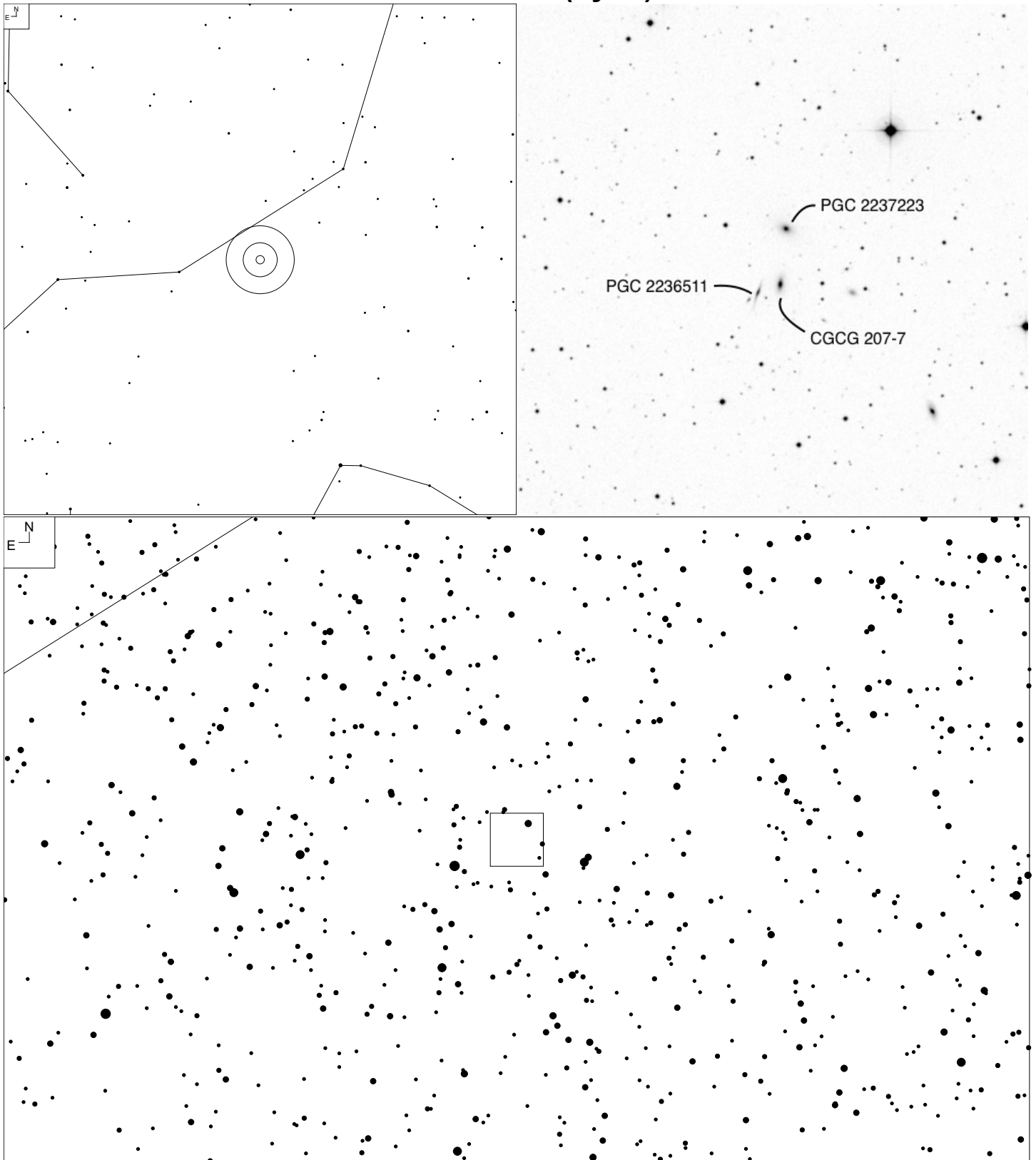
Miles Paul trio

UGC 4003 (Lynx)



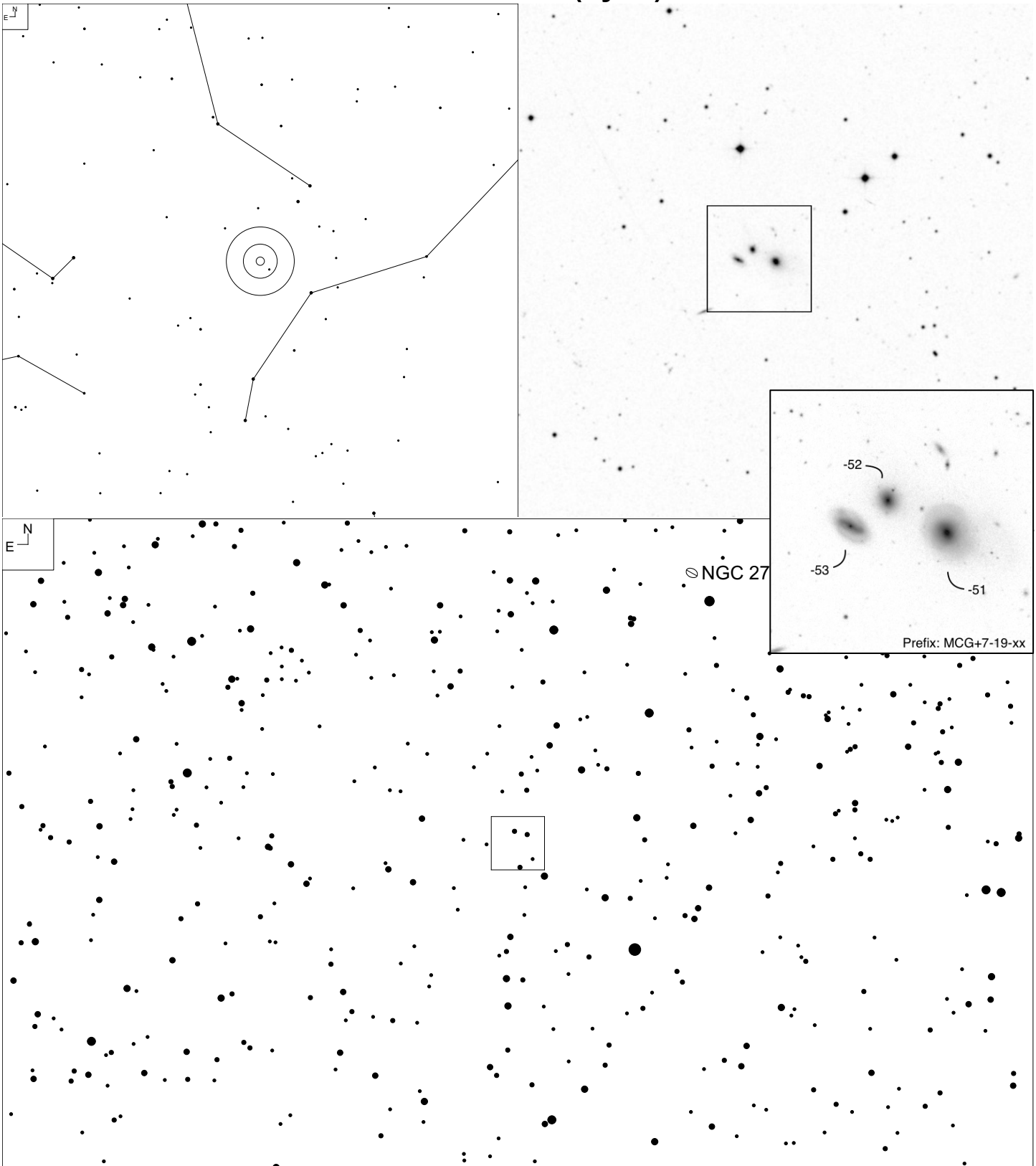
Object (KTG 19)	RA	Dec	Mag	Size
UGC 4003	07 46 28.6	+58 57 44	14.6p	1.4 x 0.6'
UGC 4012			15.3	1.3 x 0.3'
UGC 4020			14.2b	2.0 x 0.9'

CGCG 207-7 (Lynx)



Object	RA	Dec	Mag	Size
CGCG 207-7	07 56 39.8	+44 06 02	15.7	0.5 x 0.2'
PGC 2237223			16.0	0.5 x 0.3'
PGC 2236511			16.0	0.4 x 0.1'

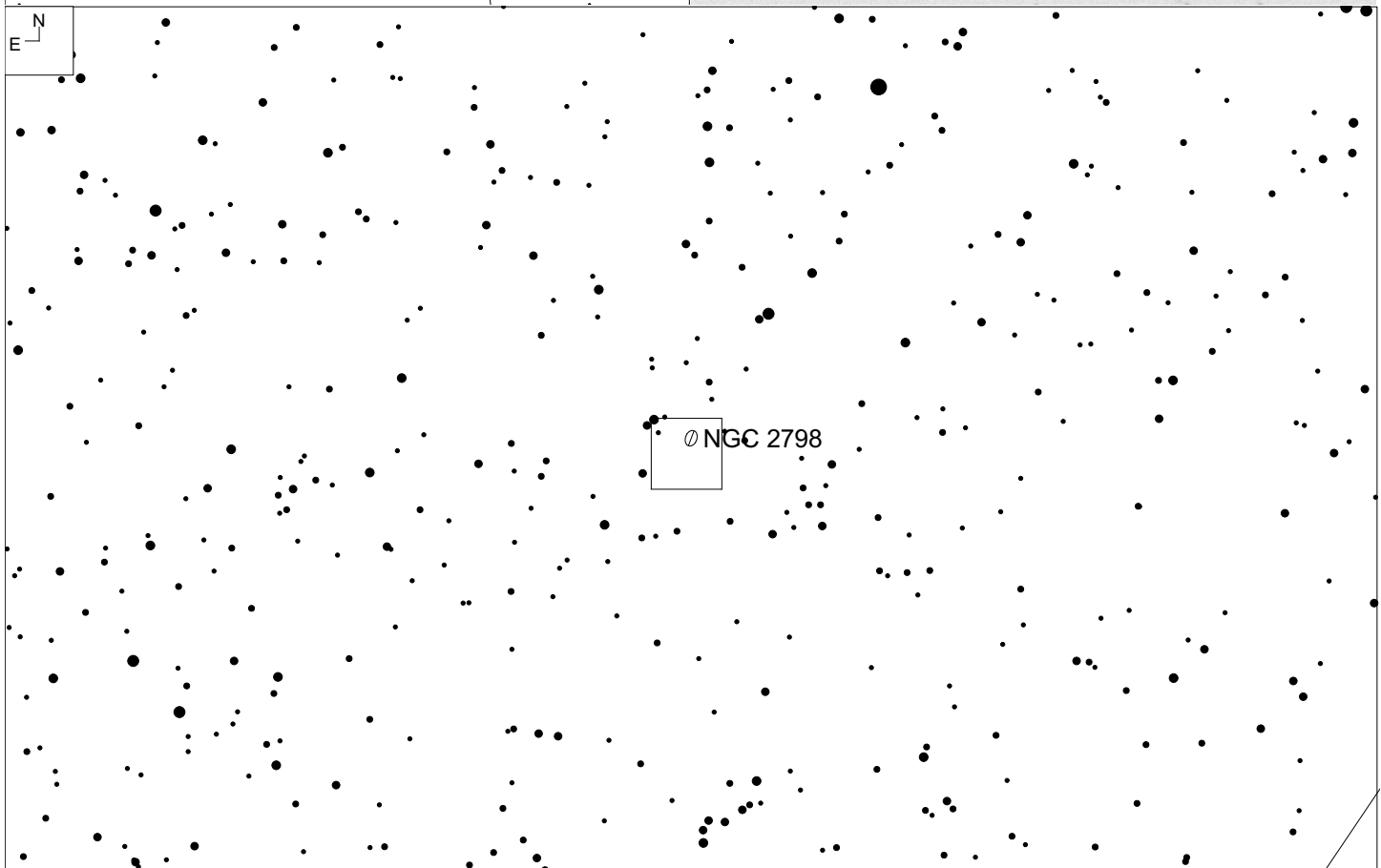
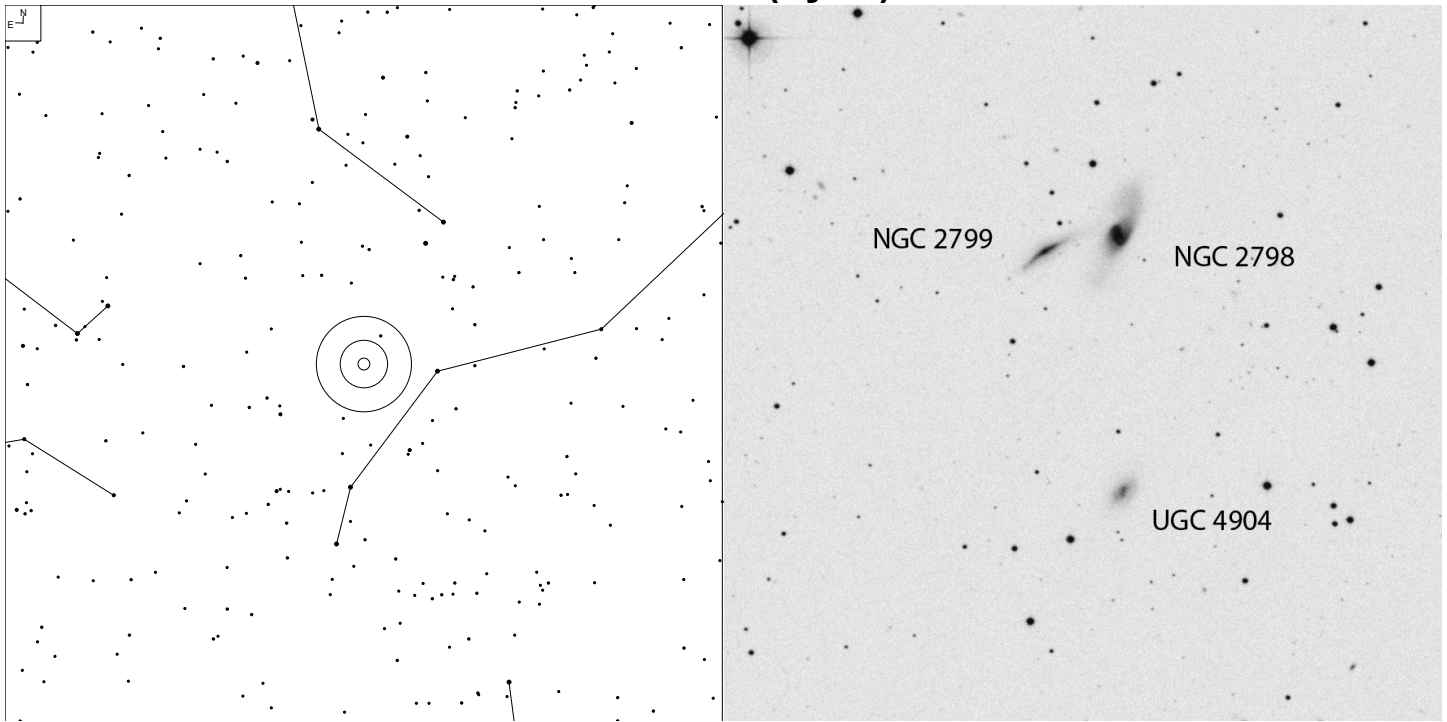
MCG+7-19-51 (Lynx)



Object	RA	Dec	Mag	Size
MCG+7-19-51	09 16 46.8	+43 42 44	15.5	0.7 x 0.7'
MCG+7-19-52			16.1	0.3 x 0.3'
MCG+7-19-53			15.6	0.5 x 0.3'

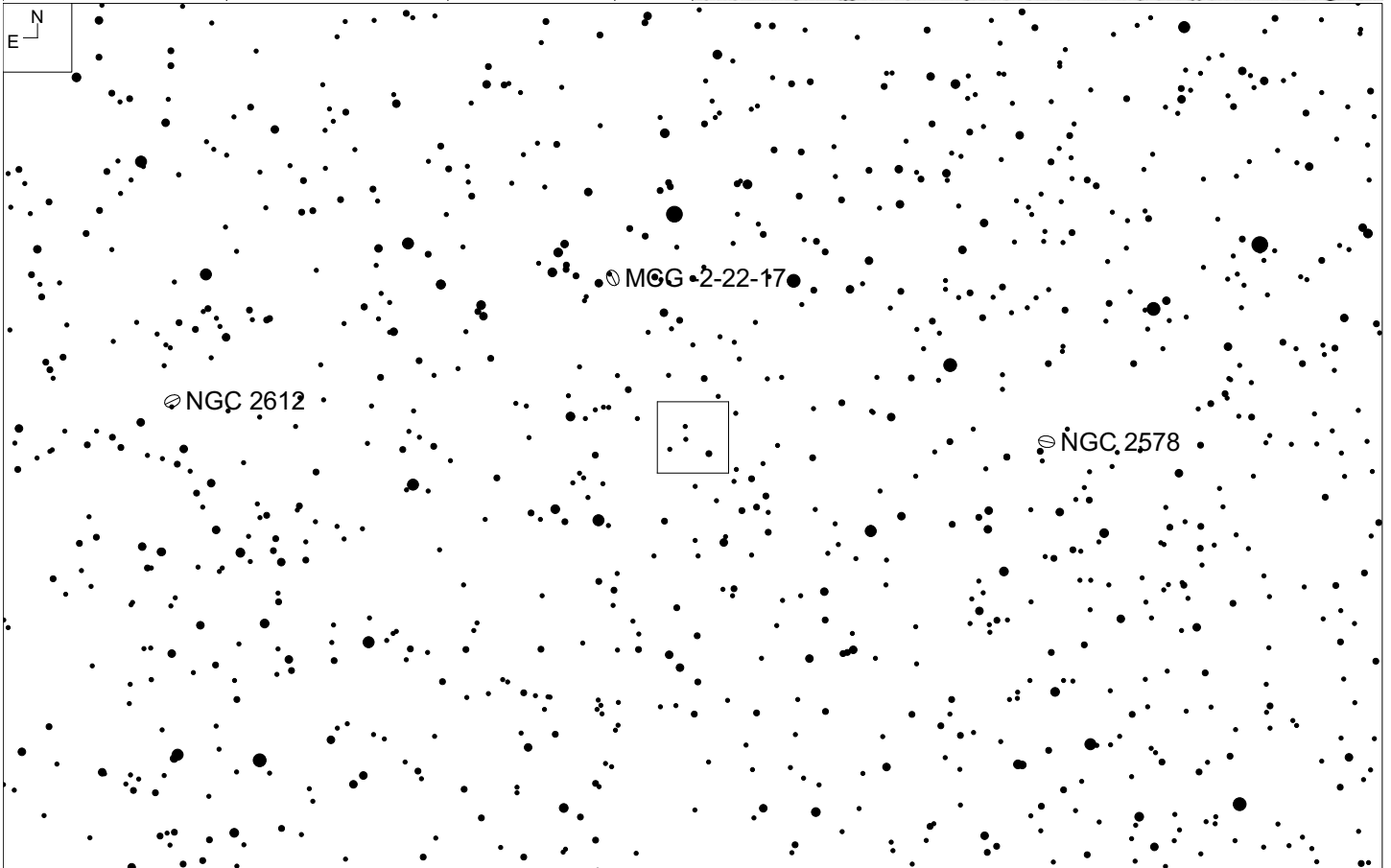
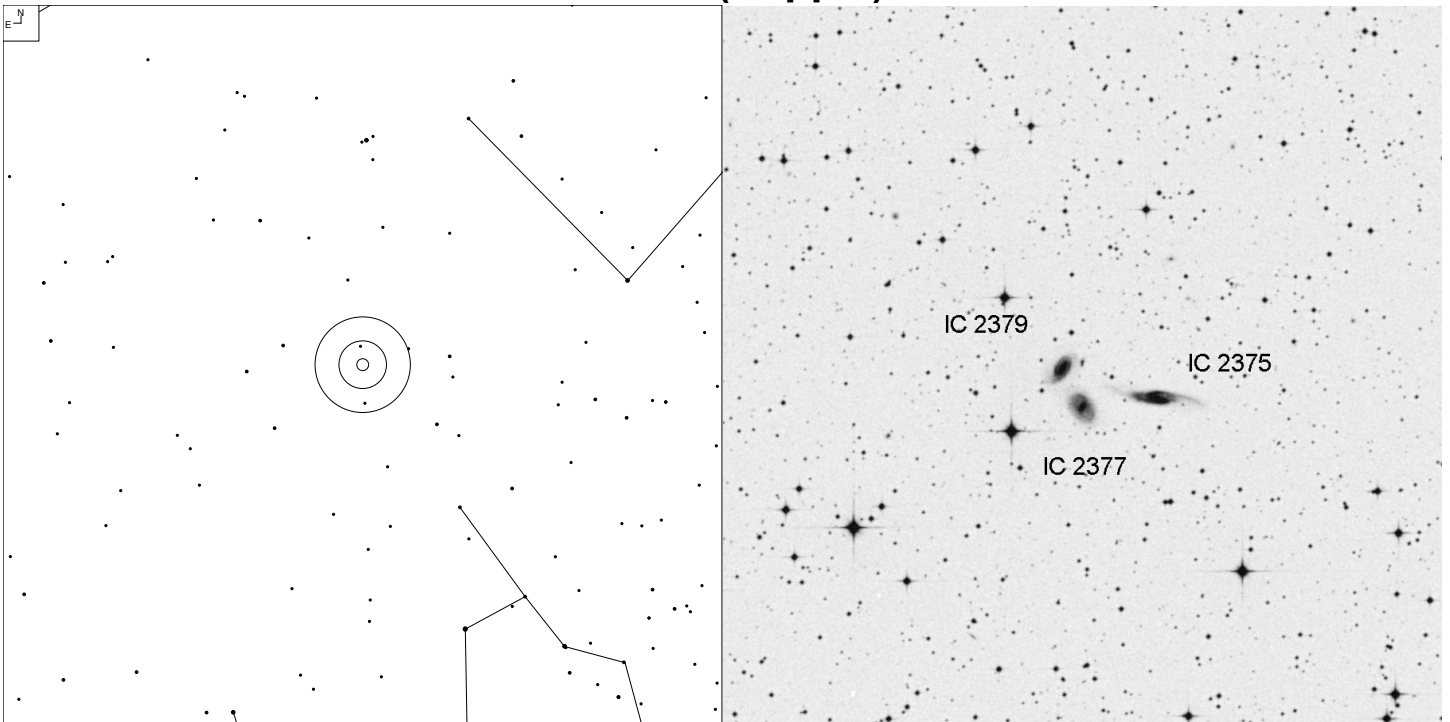
Miles Paul trio

NGC 2798 (Lynx)



Object (KTG 22)	RA	Dec	Mag	Size
NGC 2798	09 17 22.9	+42 00 02	13.0b	2.5 x 0.9'
NGC 2799			14.3p	1.8 x 0.4'
UGC 4904			14.9	1.0 x 0.6'

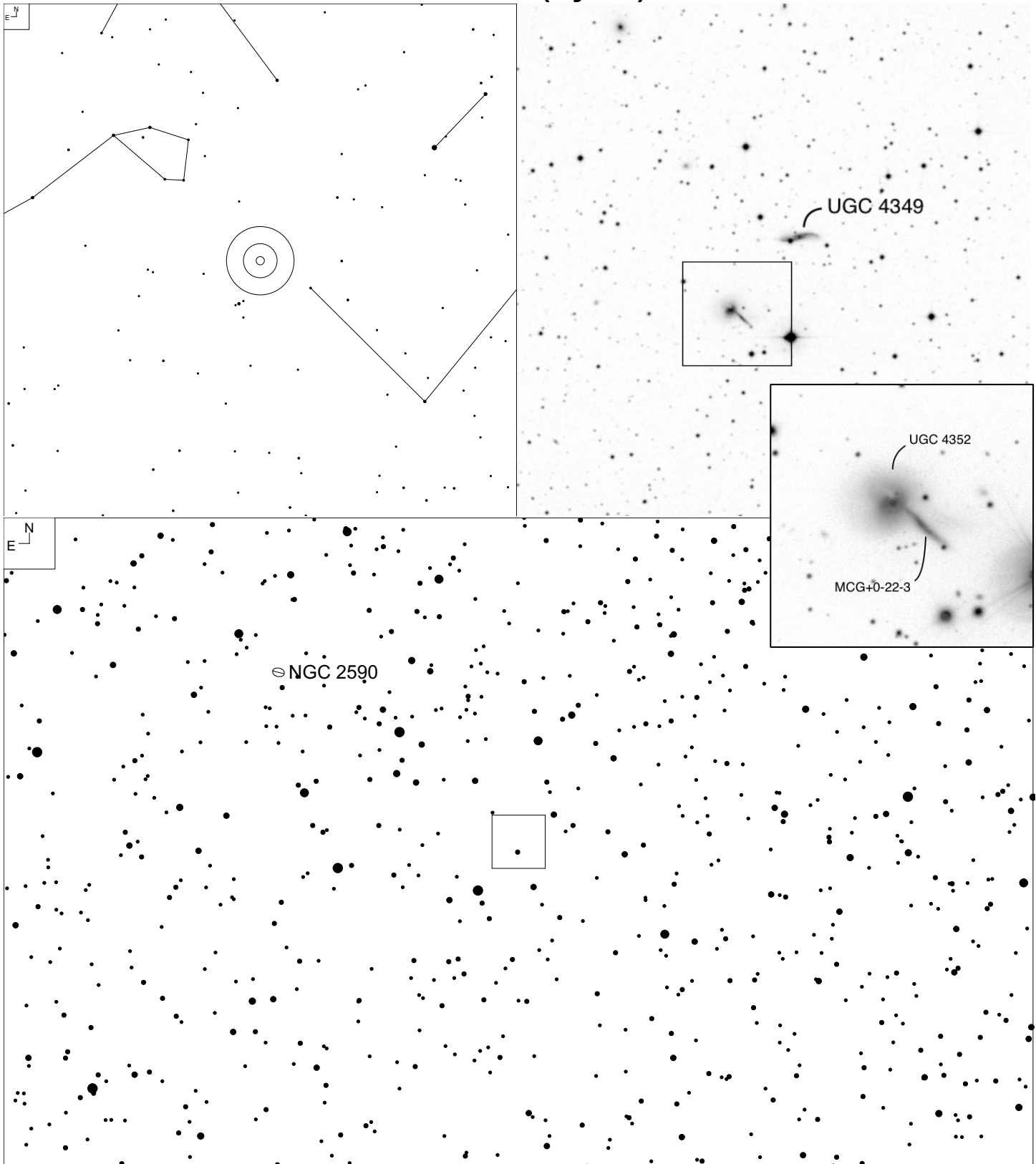
IC 2375 (Puppis)



Object	RA	Dec	Mag	Size
IC 2375	08 26 19.6	-13 18 10	14.5	1.8 x 0.4'
IC 2377			14.5	1.0 x 0.7'
IC 2379			14.5	1.0 x 0.6'

Miles Paul and Astronomical League trio

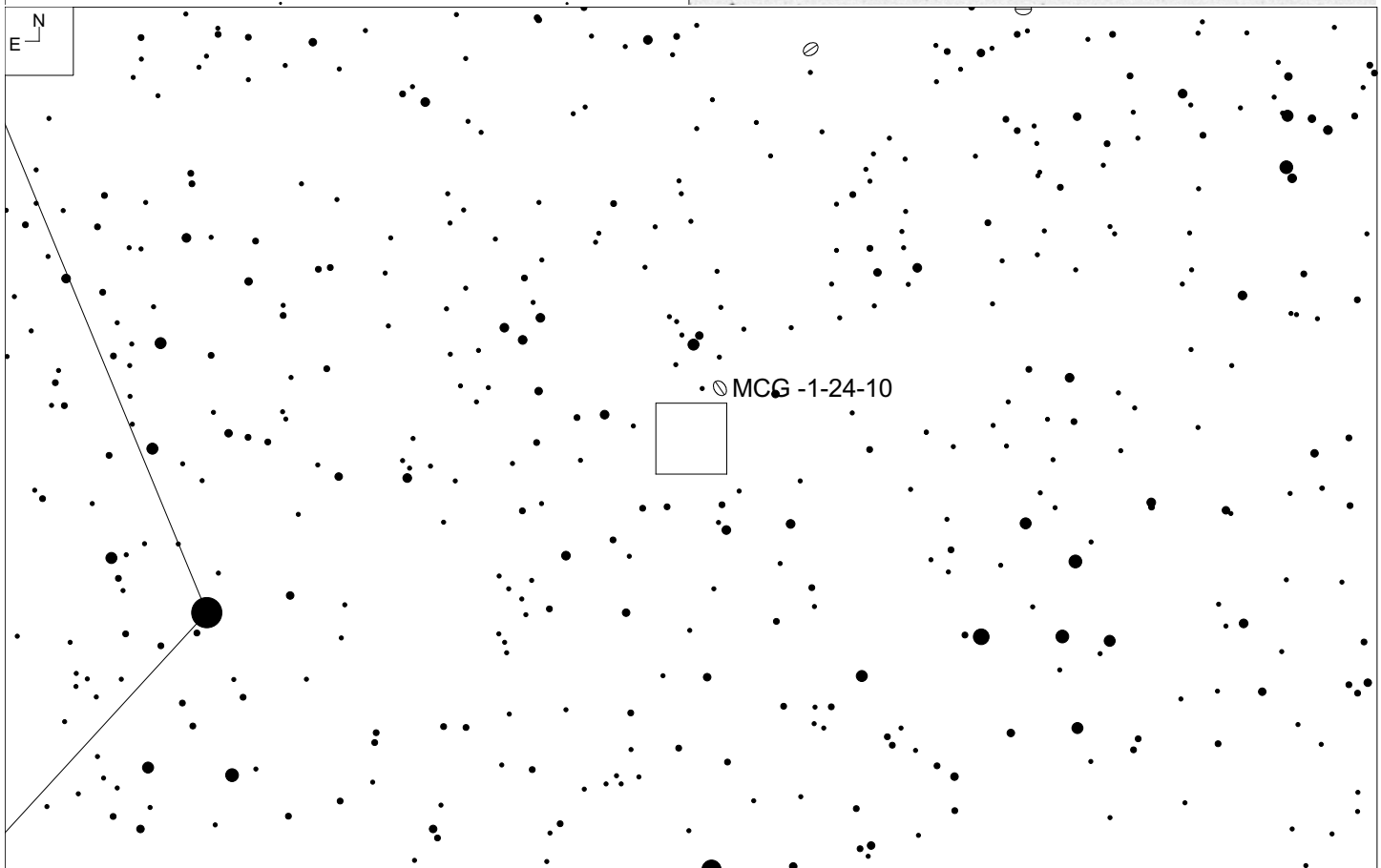
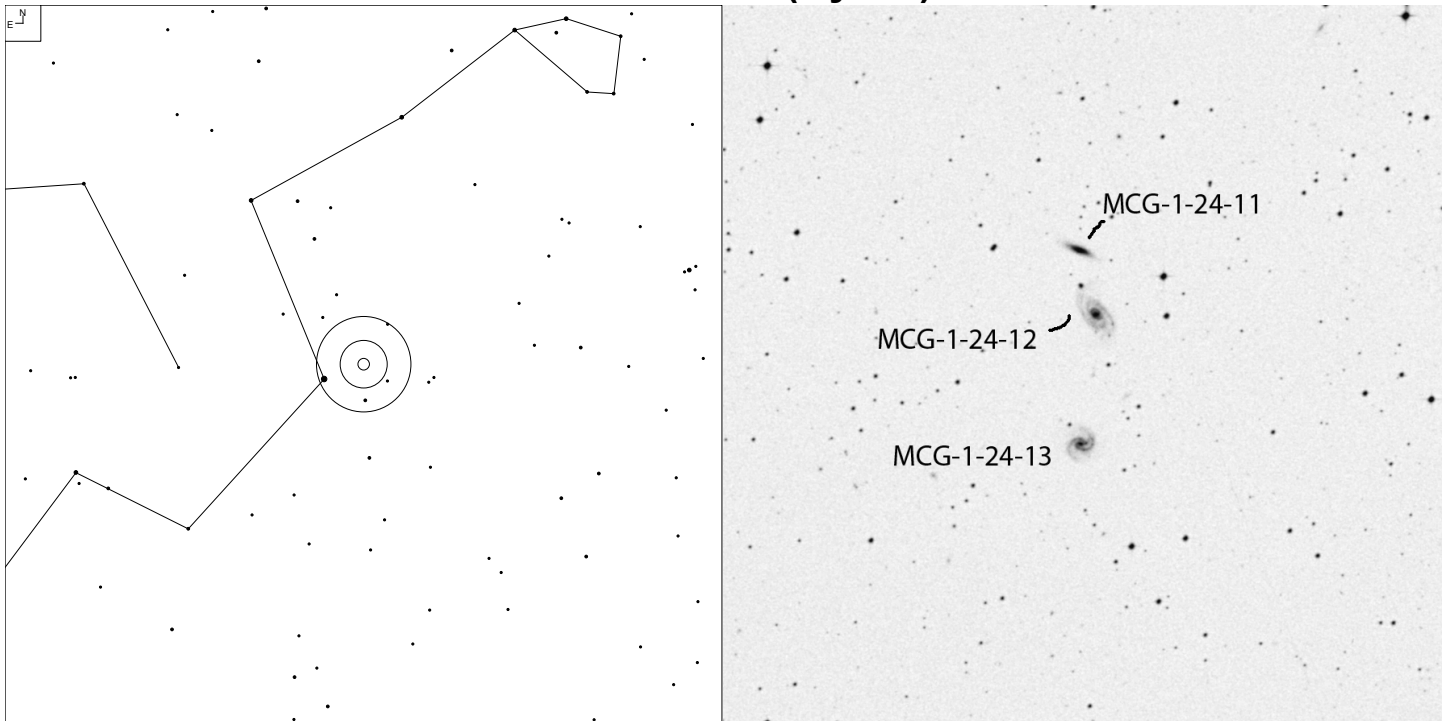
UGC 4349 (Hydra)



Object (KTG 21)	RA	Dec	Mag	Size
UGC 4349	08 20 35.0	-01 22 32	15.0p	1.4 x 0.2'
UGC 4352			15.0p	1.0 x 0.8'
MCG+0-22-3			15.0b	0.9 x 0.1'

Miles Paul trio

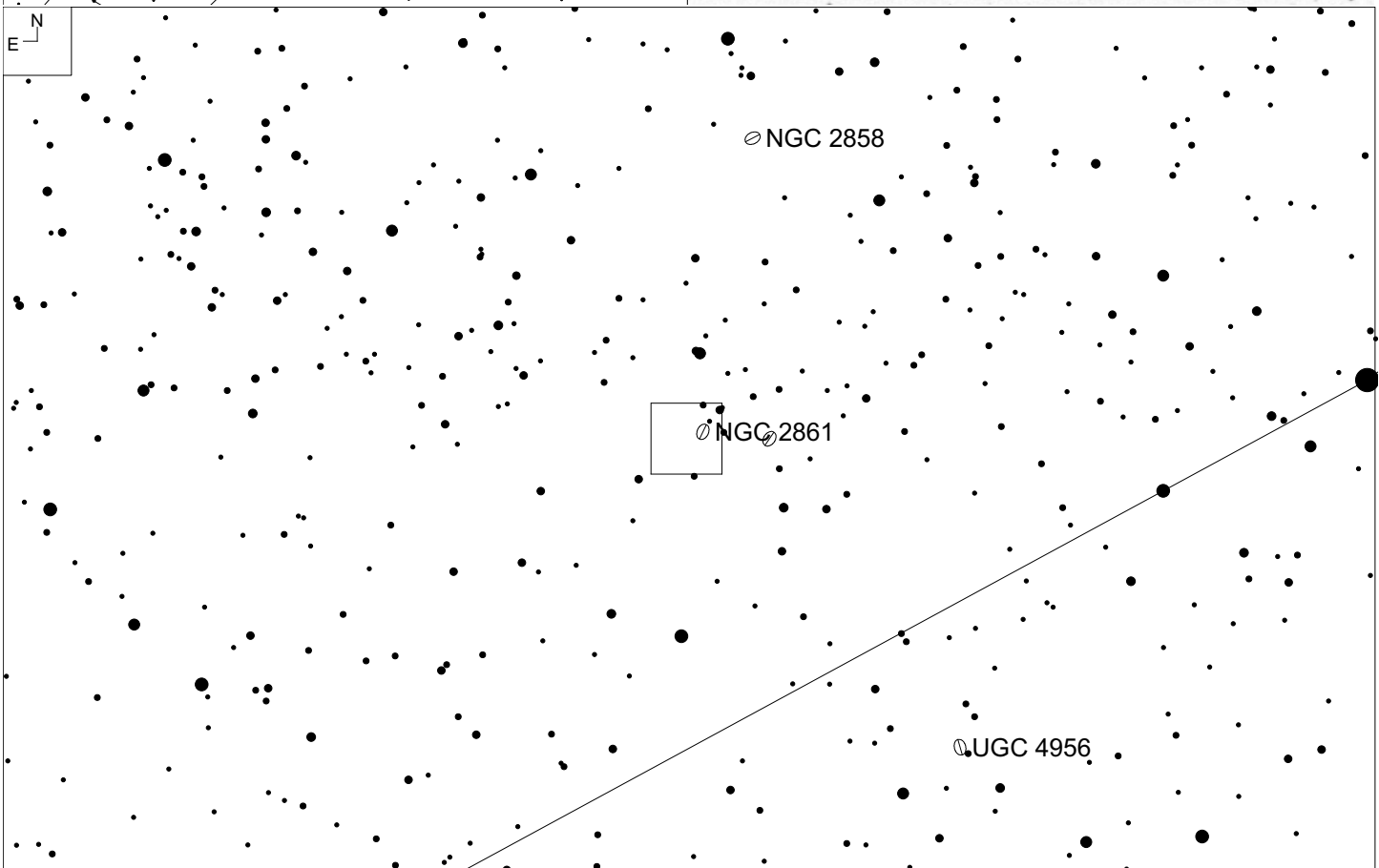
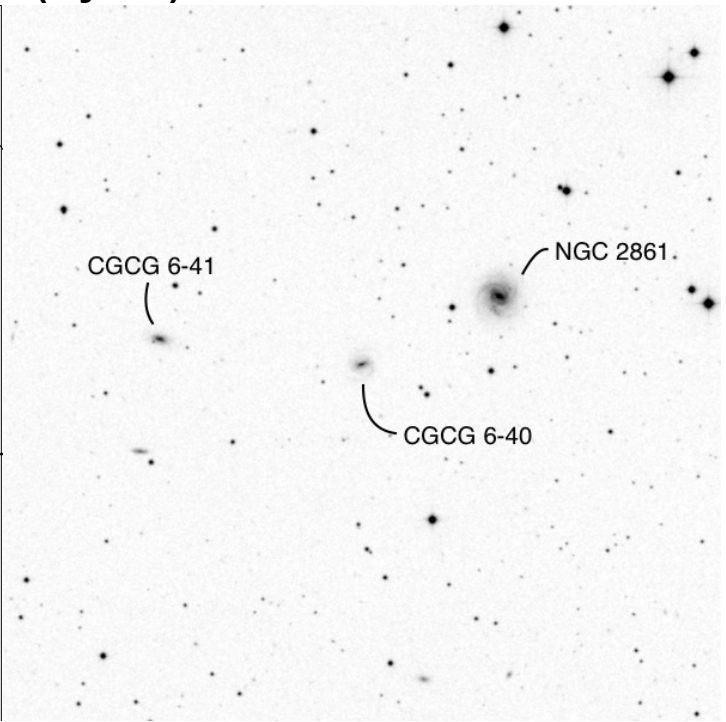
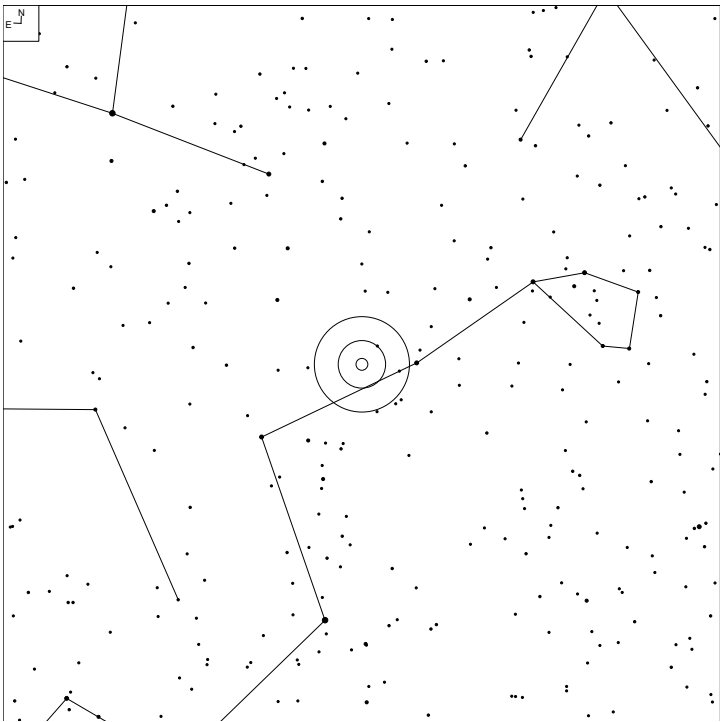
MCG-1-24-11 (Hydra)



Object	RA	Dec	Mag	Size
MCG-1-24-11	09 20 47.7	-08 02 01	16.1	0.7 x 0.2'
MCG-1-24-12			14.7	1.3 x 0.7'
MCG-1-24-13			15.9	0.9 x 0.8'

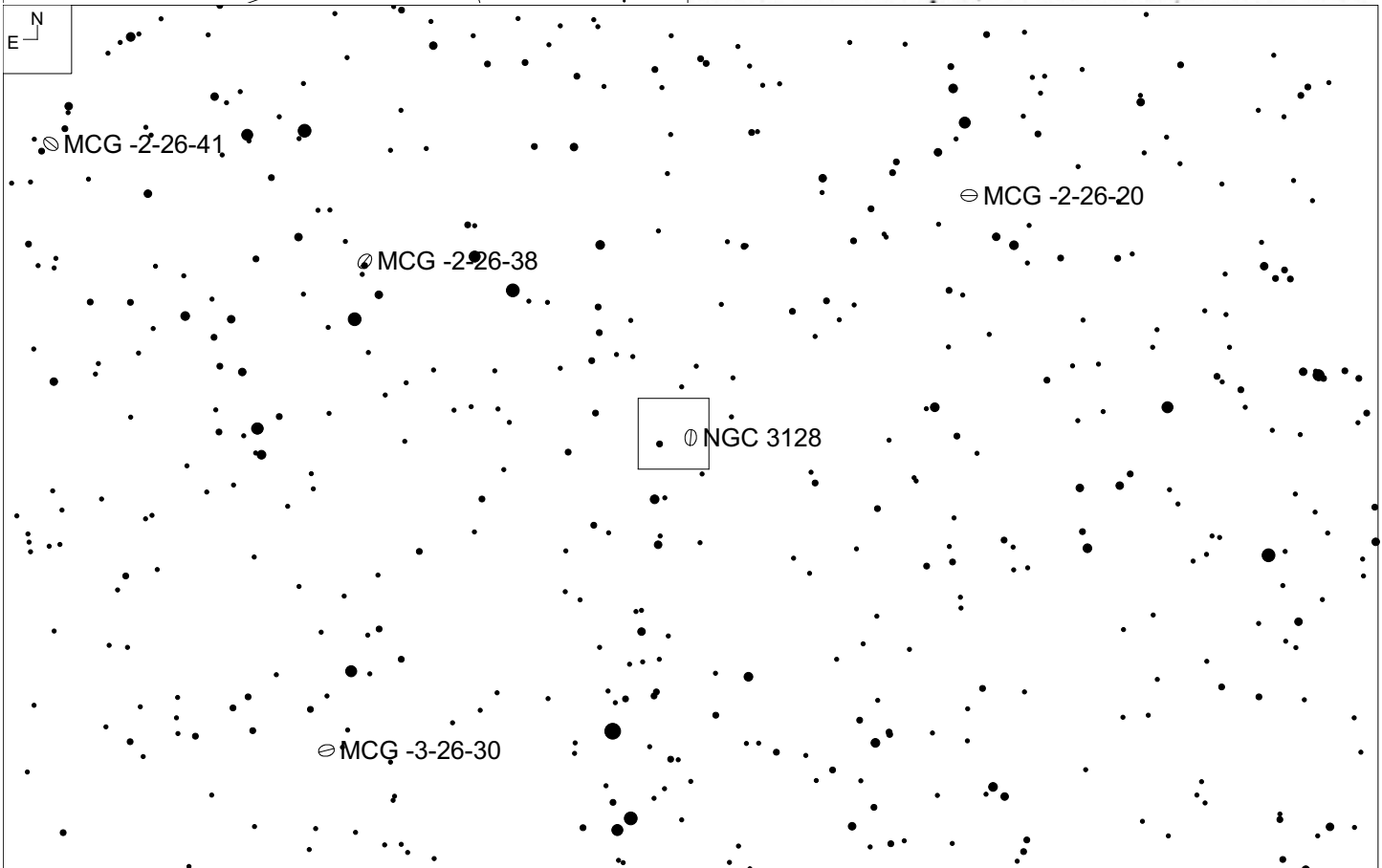
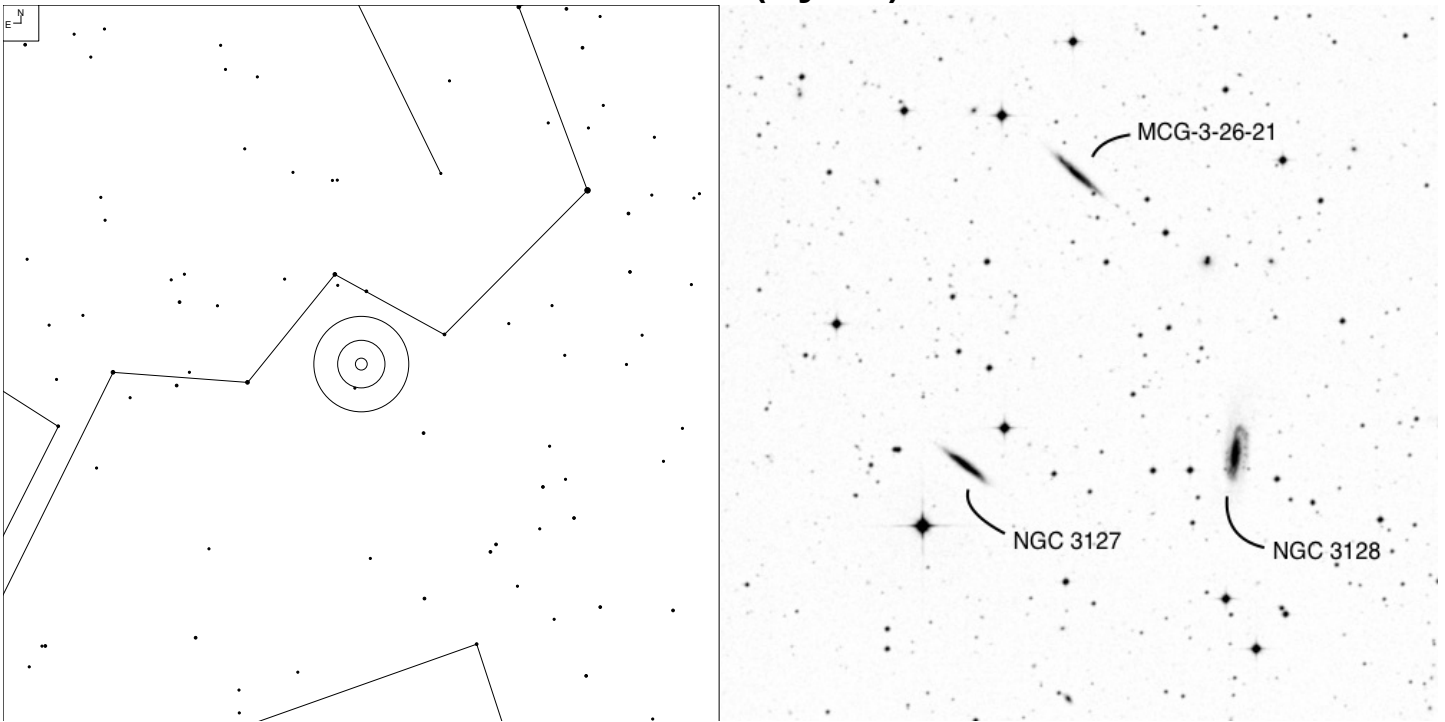
Miles Paul trio

NGC 2861 (Hydra)



Object (KTG 24)	RA	Dec	Mag	Size
NGC 2861	09 23 36.5	+02 08 11	13.5p	1.5 x 1.3'
CGCG 6-40			15.2	0.9 x 0.9'
CGCG 6-41			15.6	0.7 x 0.3'

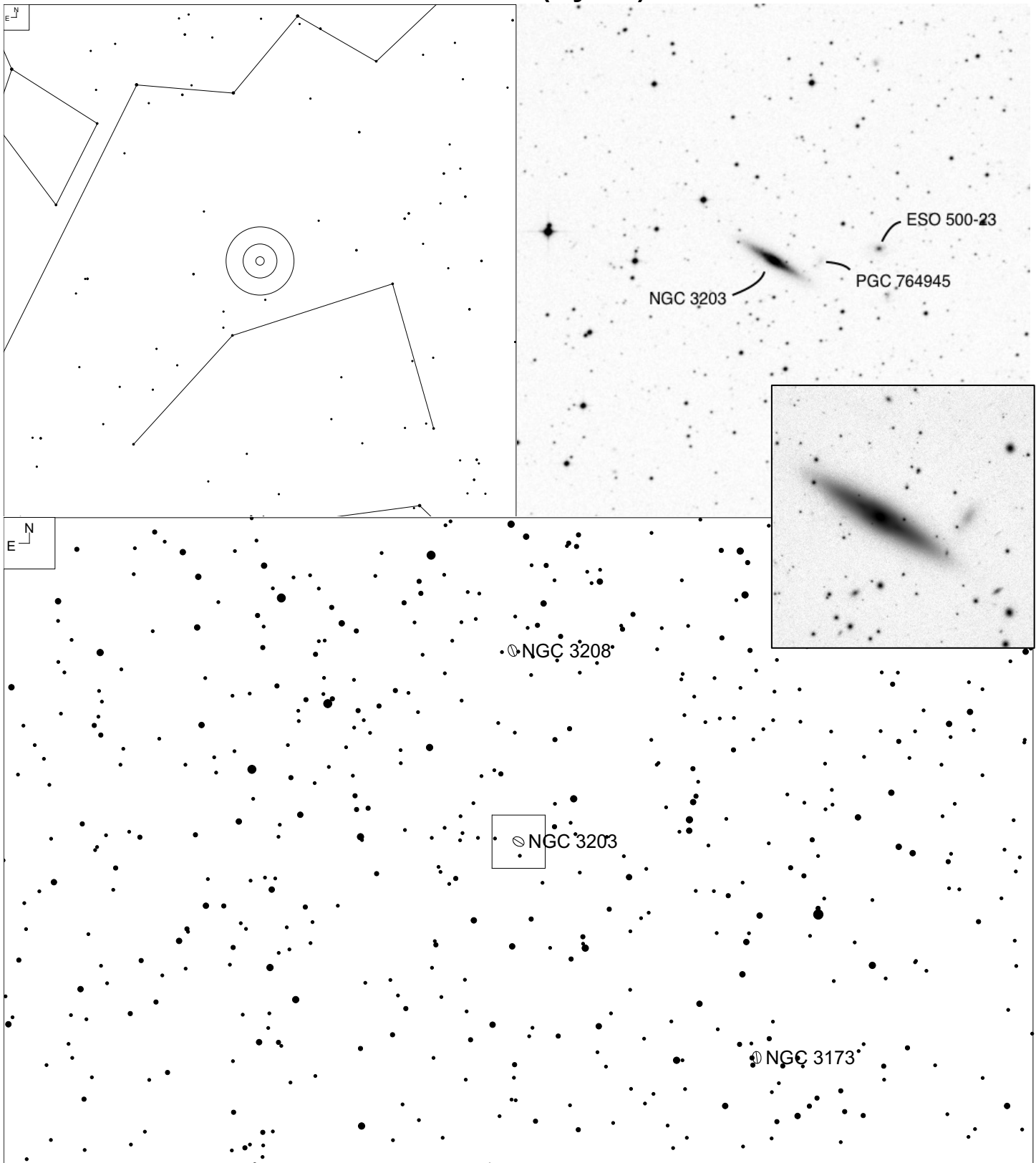
NCG 3128 (Hydra)



Object	RA	Dec	Mag	Size
NGC 3128	10 06 01.5	-16 07 25	14.0	1.5 x 0.6'
NGC 3127			14.3	1.2 x 0.2'
MCG-3-26-21			14.5	1.6 x 0.2'

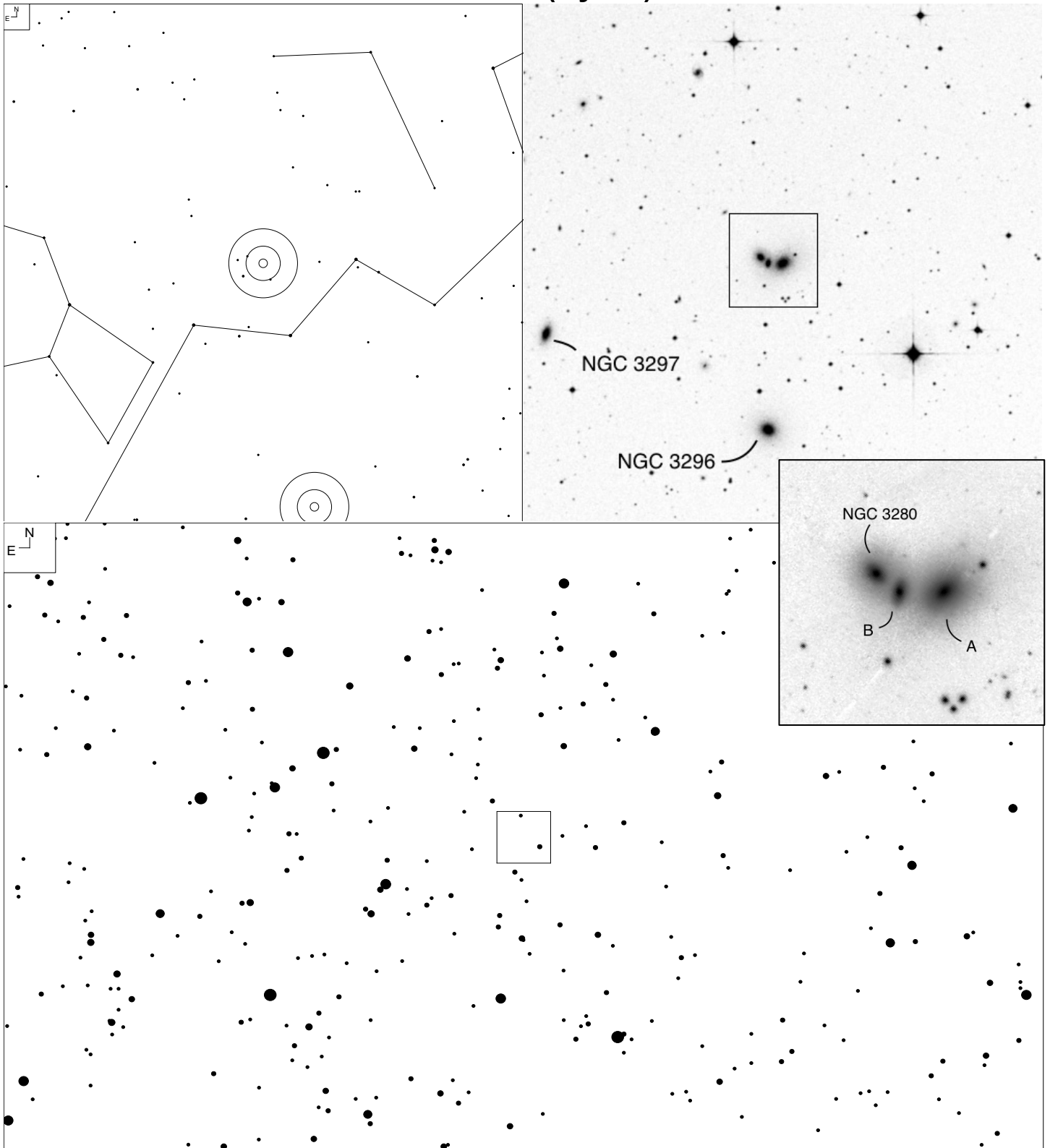
Miles Paul trio

NGC 3203 (Hydra)



Object	RA	Dec	Mag	Size
NGC 3203	10 19 33.8	-26 41 56	13.1b	2.9 x 0.5'
ESO 500-23			16.1	0.6 x 0.4'
PGC 764945			17.0	0.5 x 0.3'

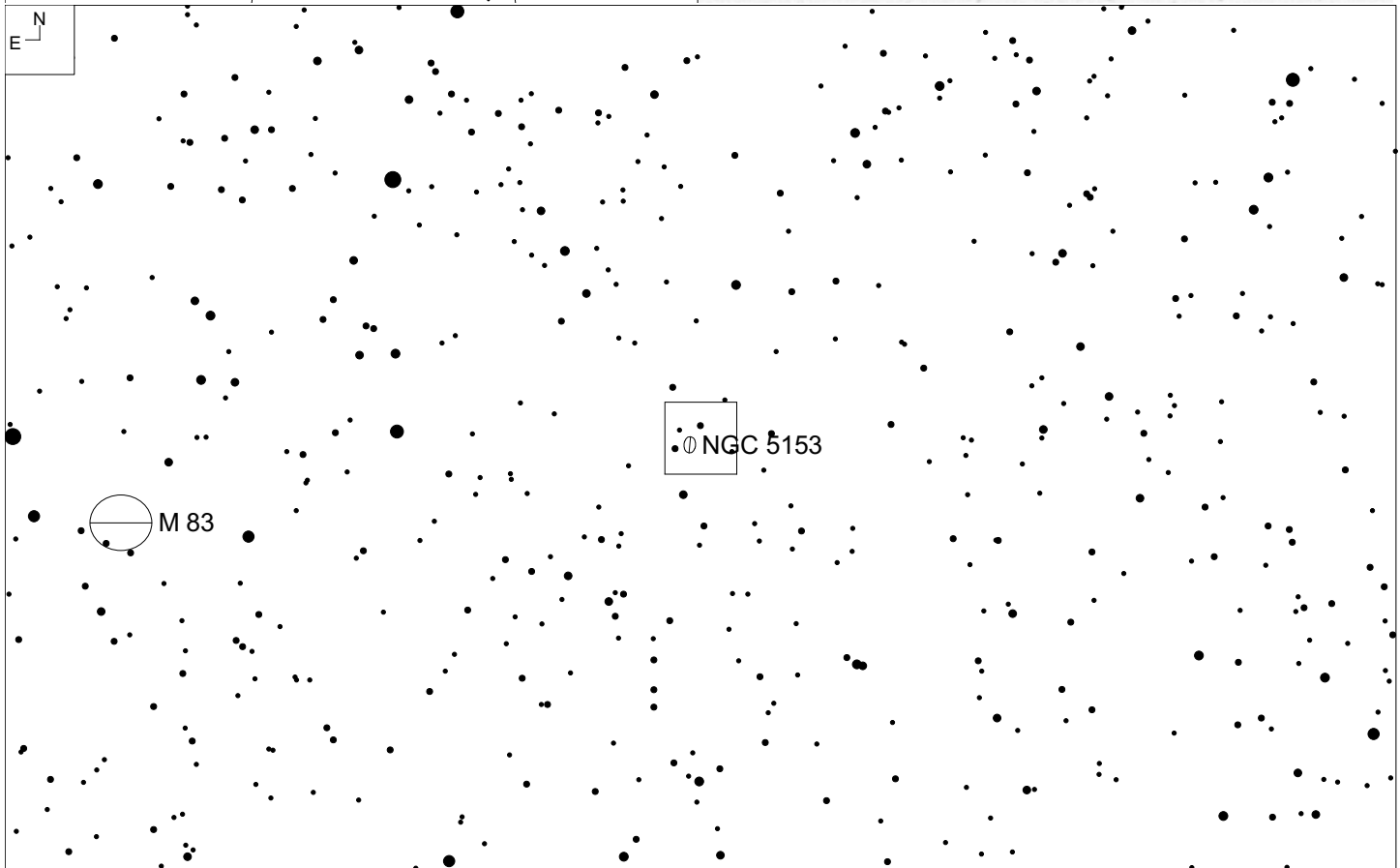
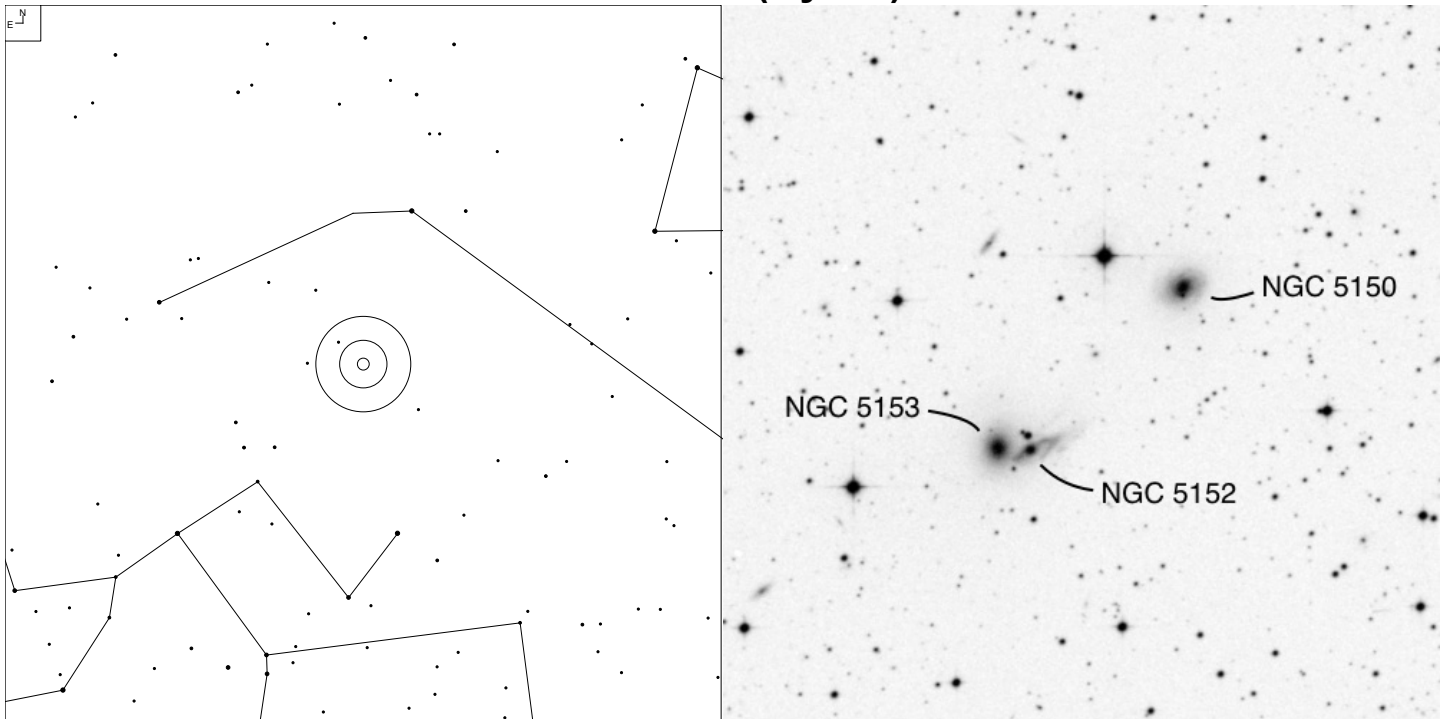
NGC 3280 (Hydra)



Object	RA	Dec	Mag	Size
NGC 3280	10 32 46.4	-12 38 04	16.0	0.4 x 0.3'
NGC 3280A			15.1	0.7 x 0.5'
NGC 3280B			16.3	0.5 x 0.3'
NGC 3296			15.3	0.7 x 0.7'
NGC 3297			15.5	0.8 x 0.5'

Miles Paul and Astronomical League trio

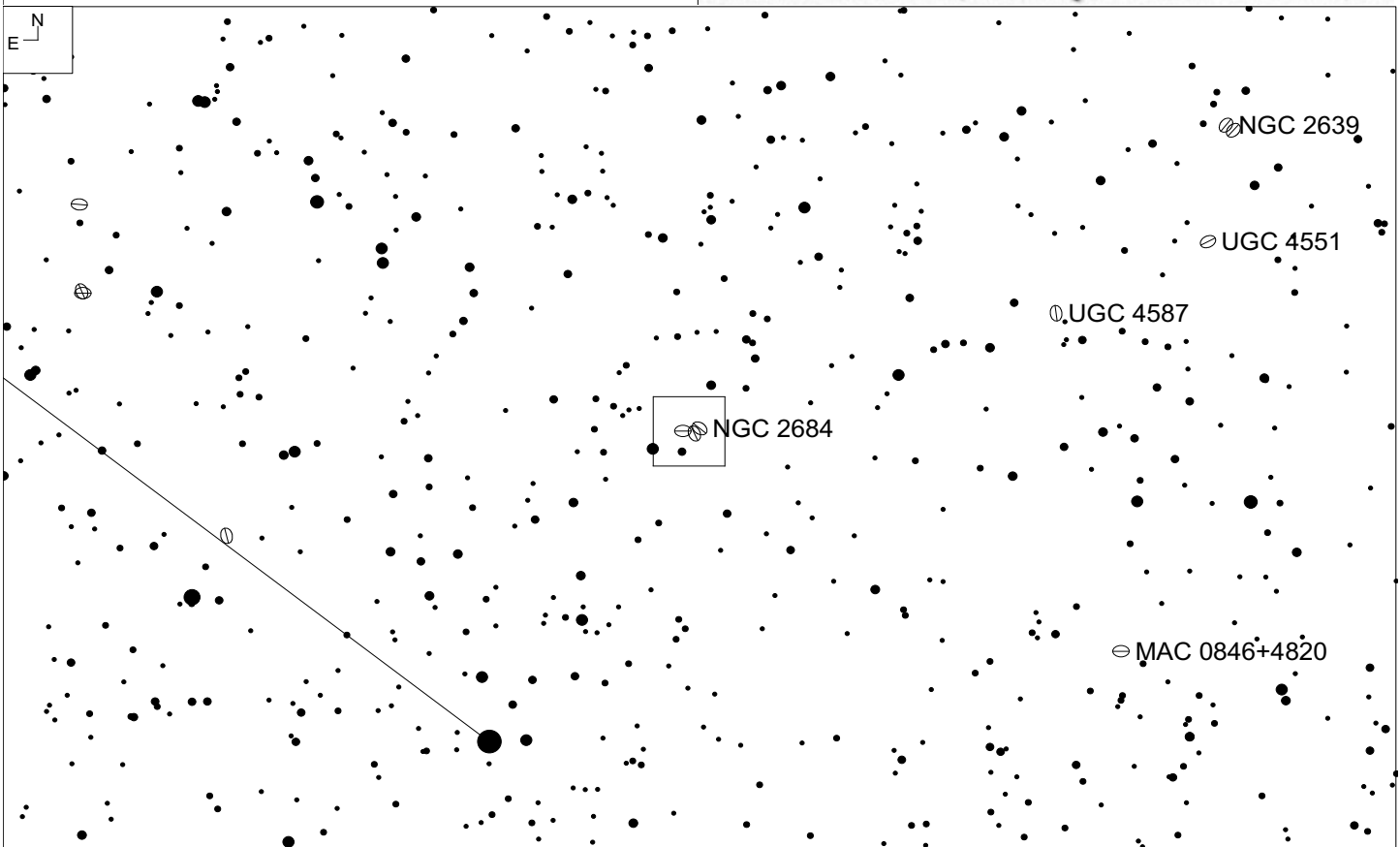
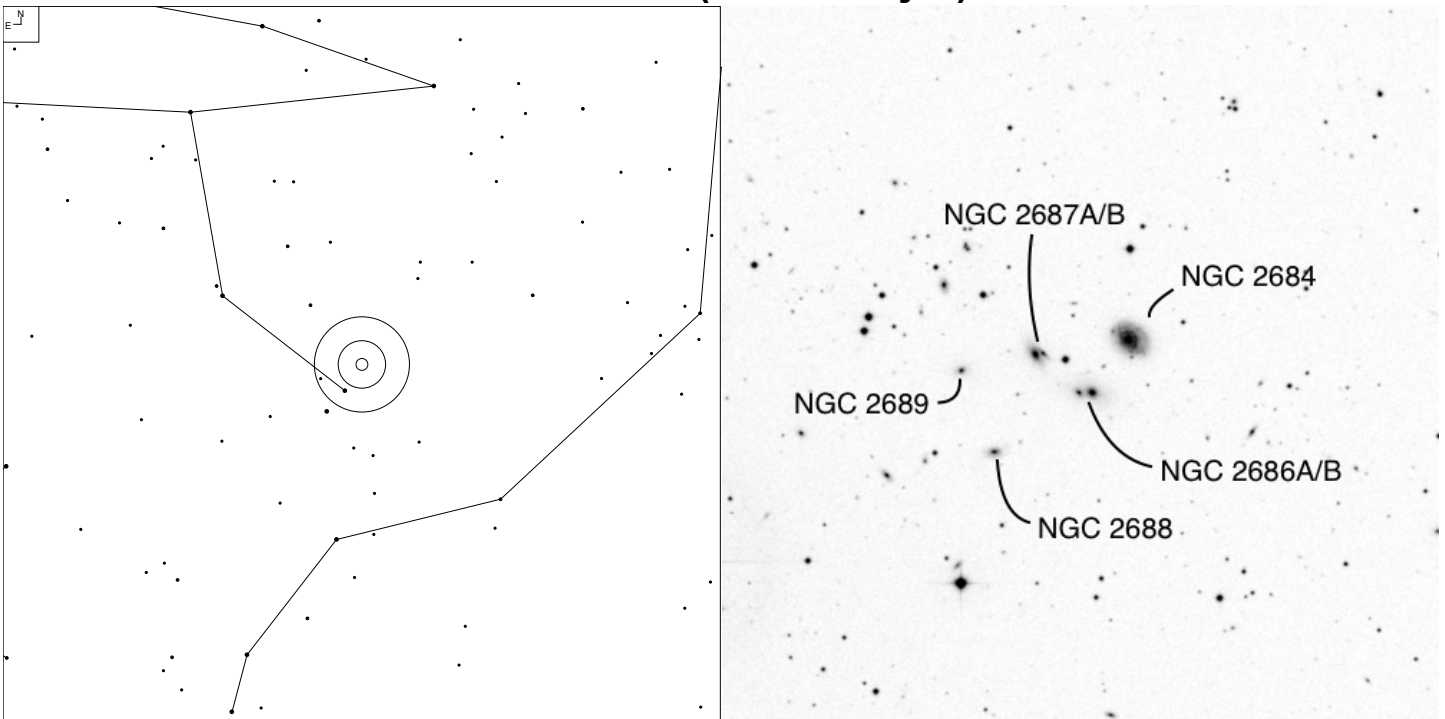
NGC 5152 (Hydra)



Object	RA	Dec	Mag	Size
NGC 5152	13 27 50.2	-29 37 05	13.3p	2.2 x 0.9'
NGC 5153			11.8v	1.9 x 1.2'
NGC 5150			12.6v	1.3 x 1.0'

Miles Paul and Astronomical League trio

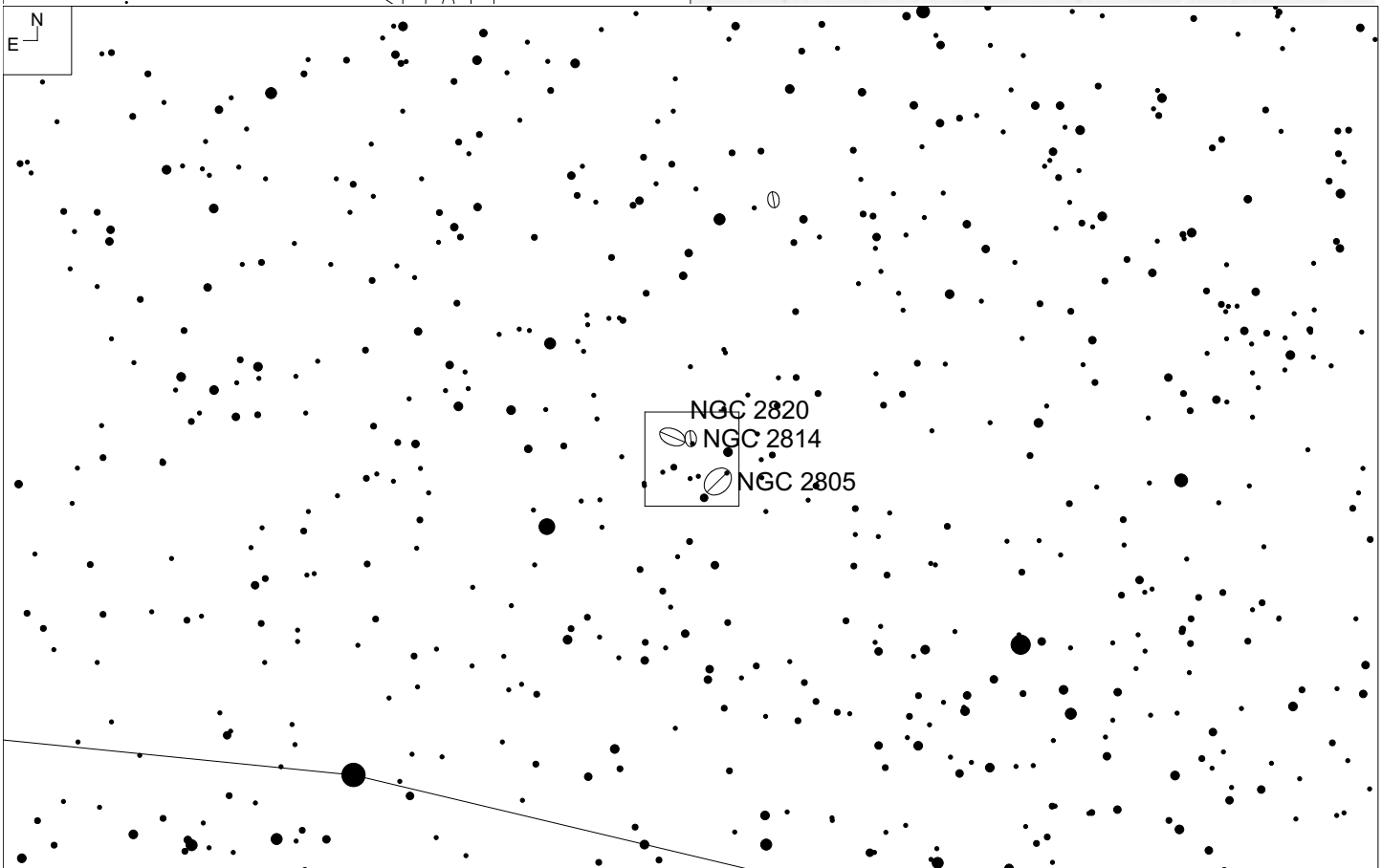
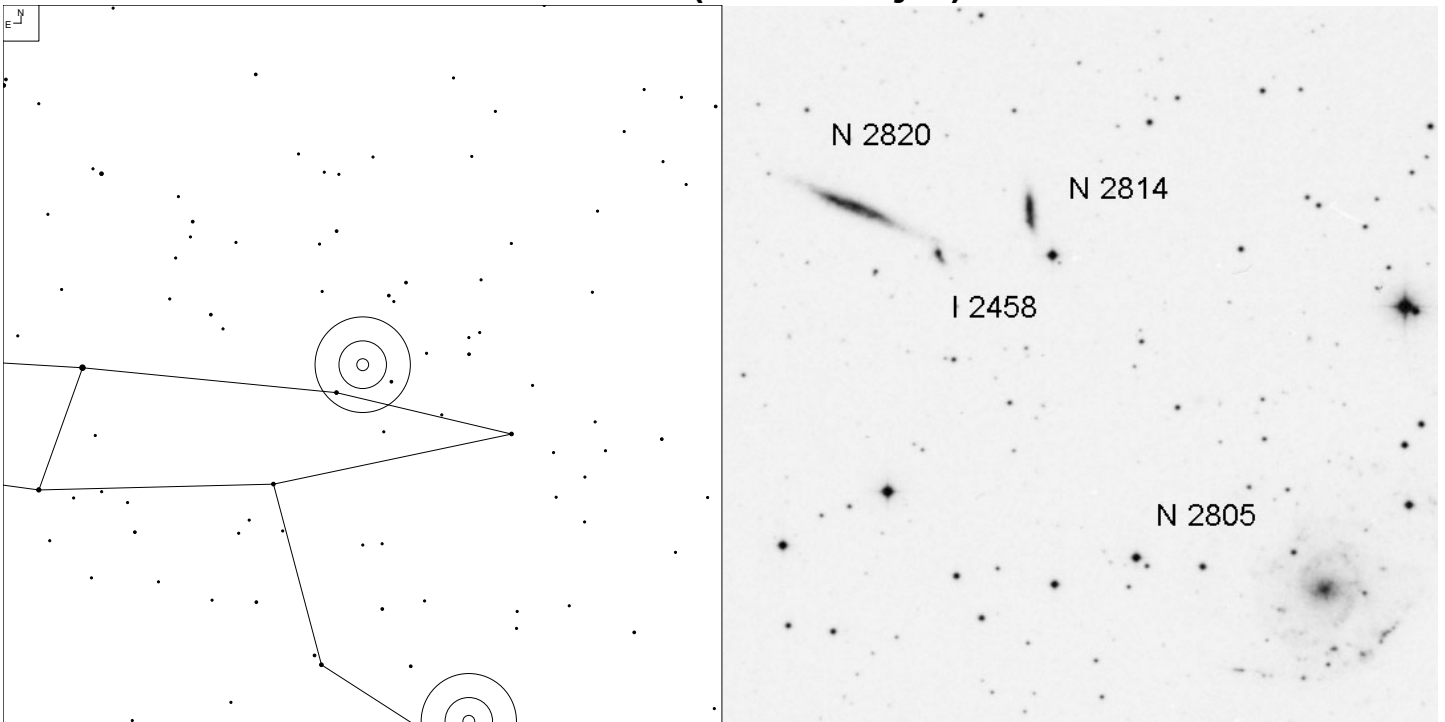
NGC 2684 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 2684	08 54 53.9	+49 09 39	13.7g	1.0 x 0.8'
NGC 2686A/B			15.5g	0.6 x 0.3'
NGC 2687A/B			15.3g	0.9 x 0.3'
NGC 2688			15.8g	
NGC 2689			16.6g	0.3'

Miles Paul trio

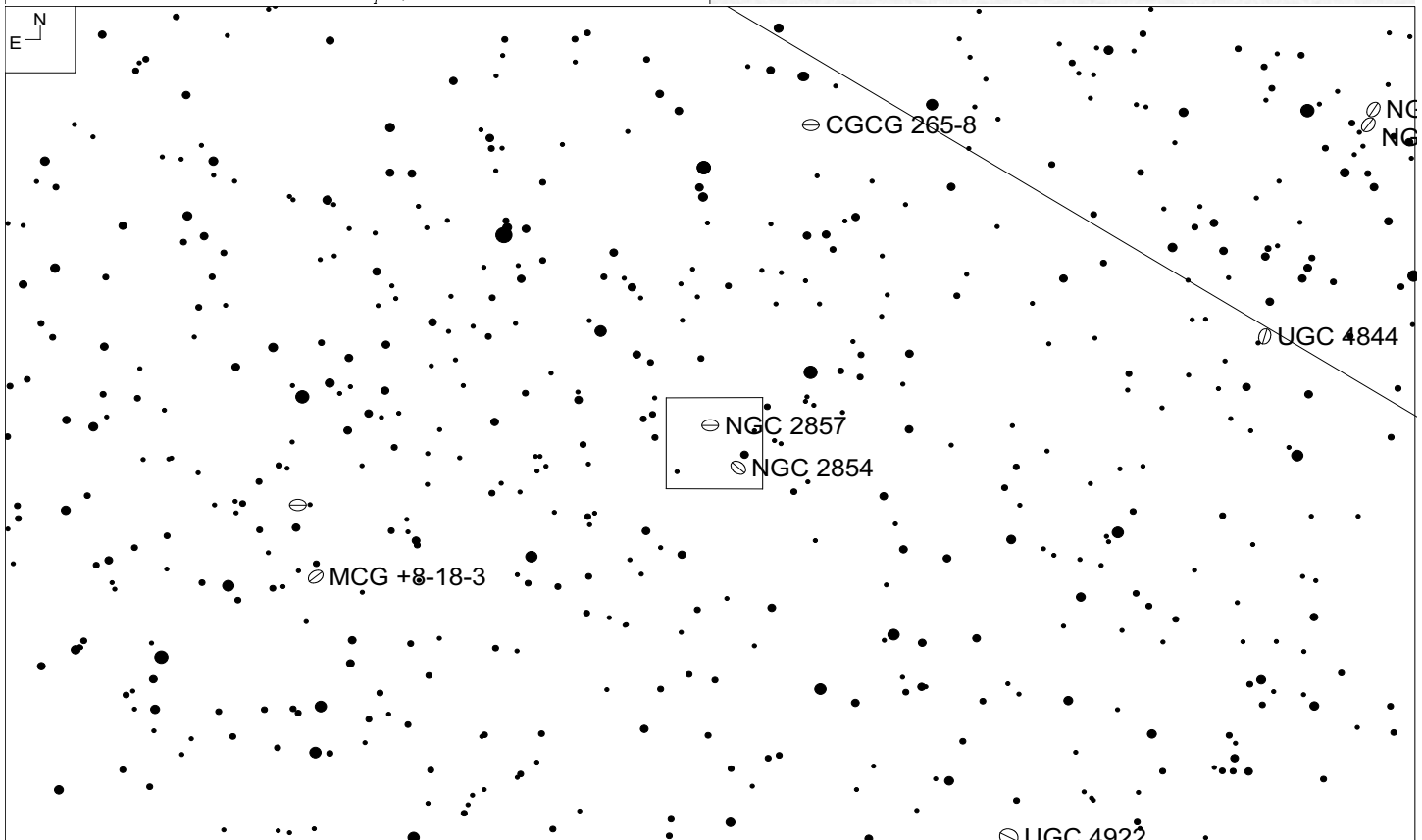
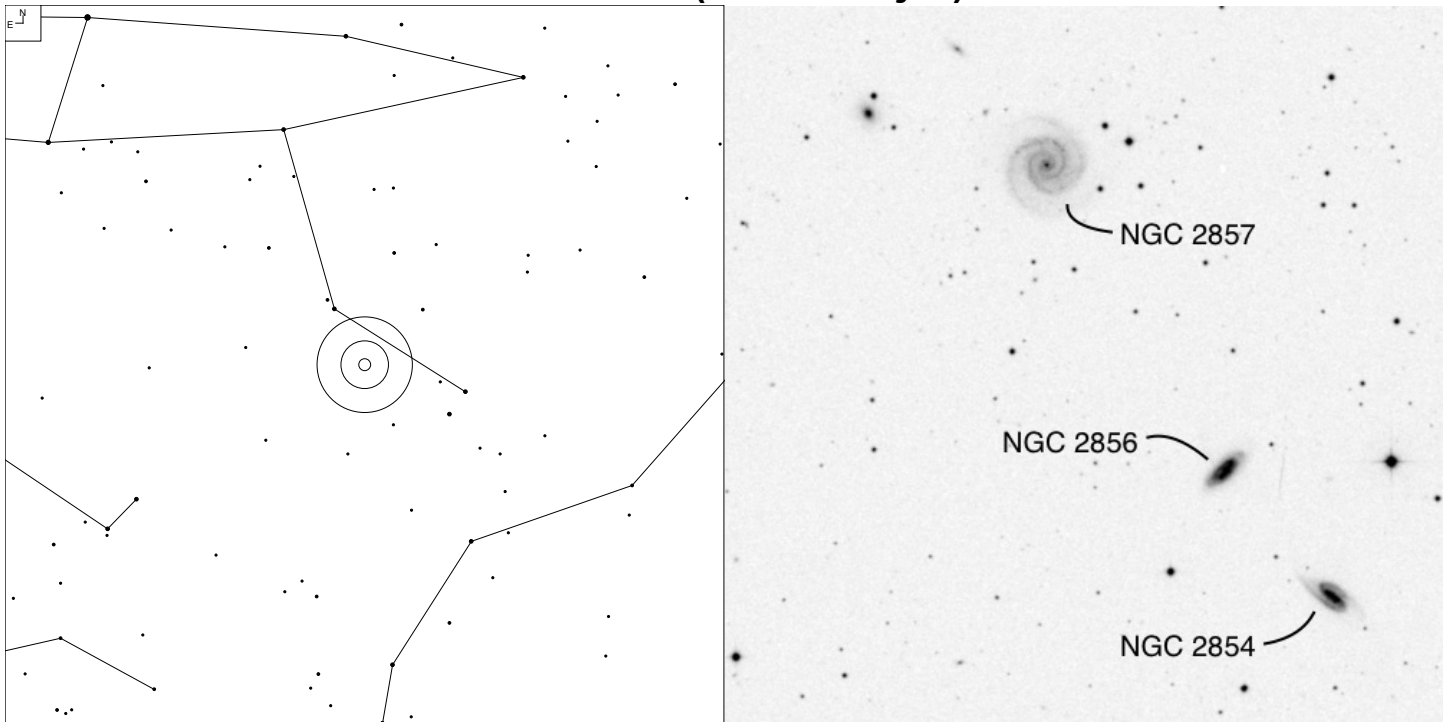
NGC 2820 (URSA Major)



Object (KTG 23)	RA	Dec	Mag	Size
NGC 2820	09 21 47.1	+64 15 29	12.8v	5.5 x 0.7'
NGC 2814			13.7v	1.5 x 0.4'
IC 2458			15.0v	0.8 x 0.4'
NGC 2805			11.5b	6.3 x 4.7'

Miles Paul trio

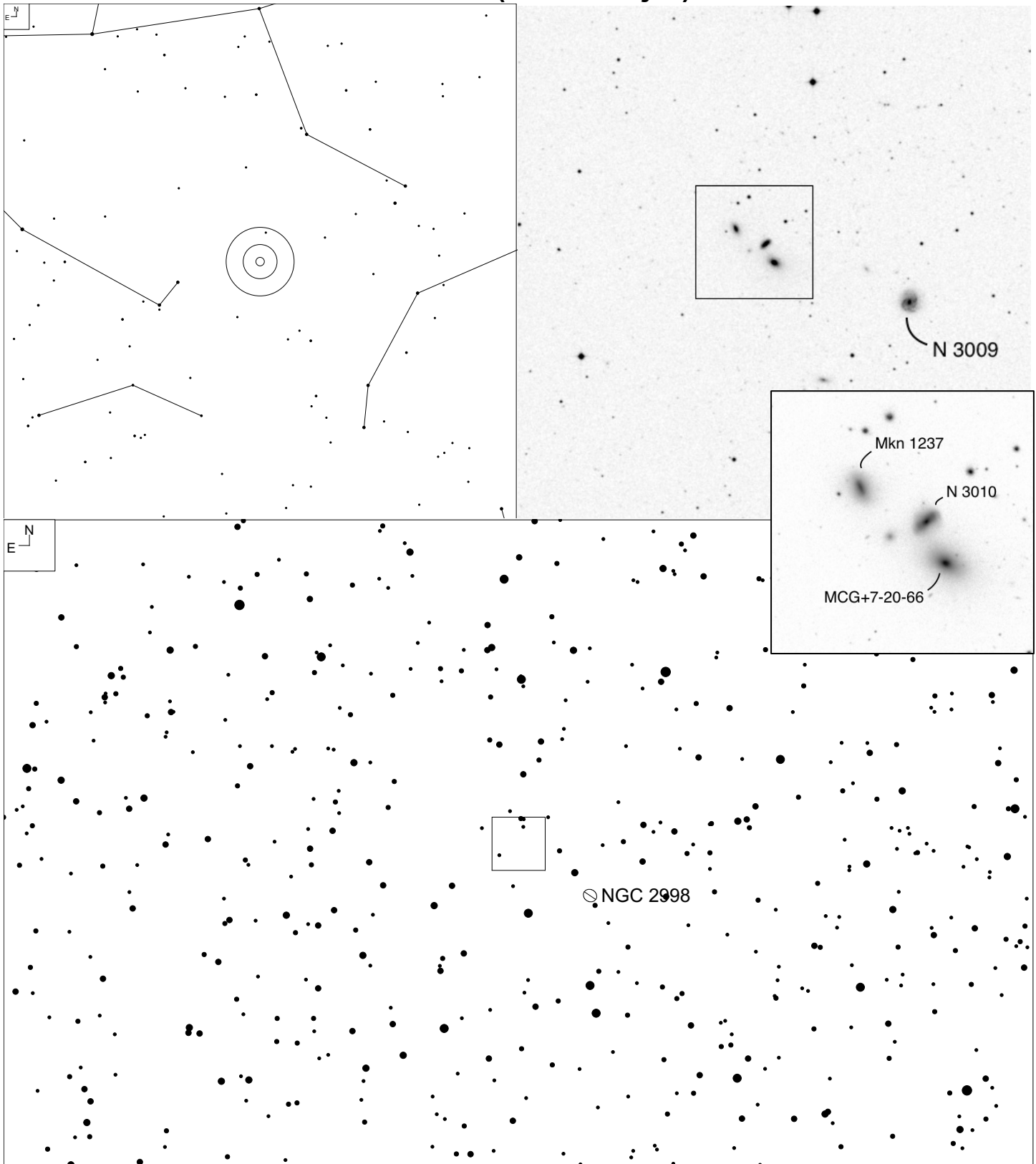
NGC 2857 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 2857	09 24 38.0	+49 21 20	12.9b	2.2 x 2.2'
NGC 2856			14.1p	1.3 x 0.7'
NGC 2854			13.8p	1.6 x 0.6'
CGCG 238-51			15.8	0.7 x 0.5'
MAC 0924+4923			17.0	0.7 x 0.2'

Miles Paul trio

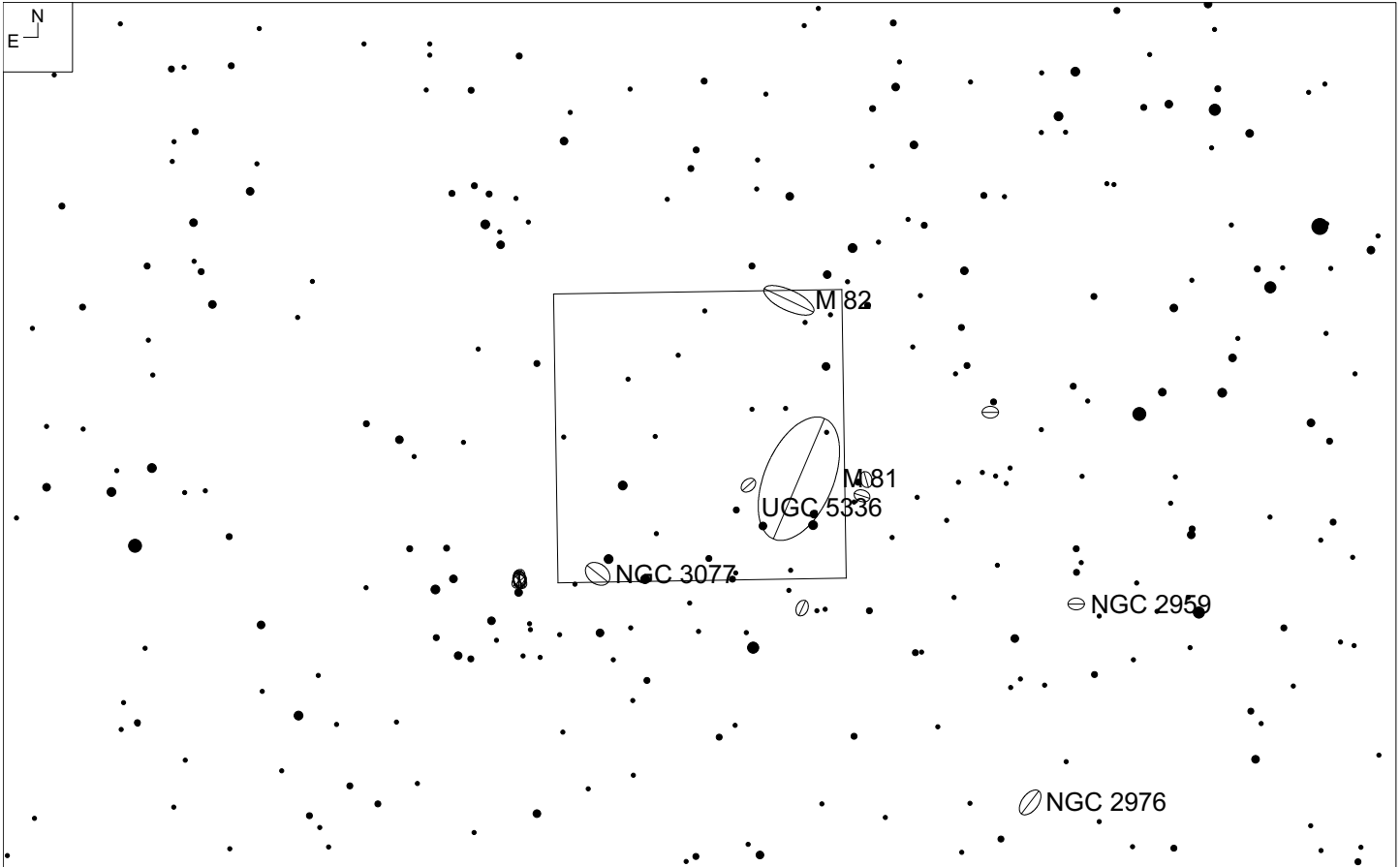
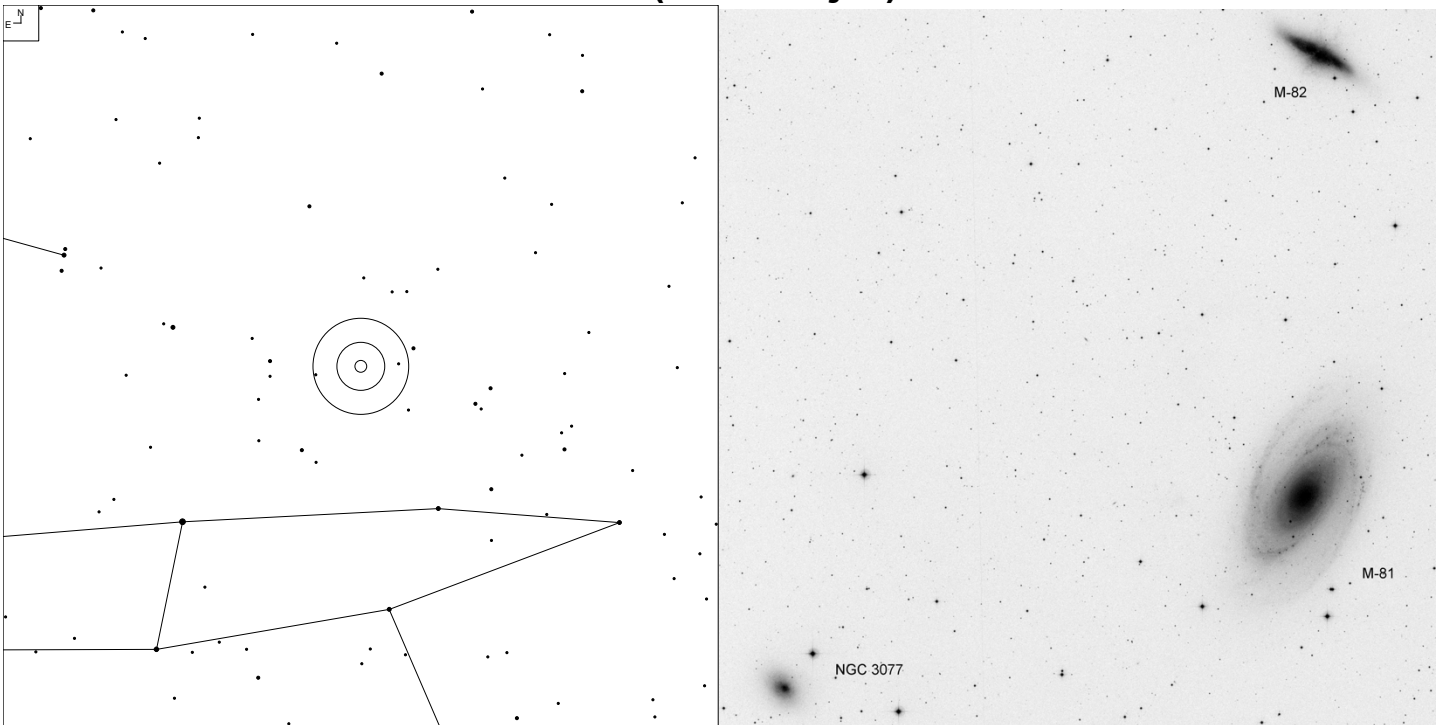
NGC 3010 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 3010	09 50 34.6	+44 19 24	14.3	0.5 x 0.3'
Mkn 1237			15.5	0.5 x 0.3'
MCG+7-20-66			14.9	0.7 x 0.5'
NGC 3009			14.5p	1.0 x 0.8'

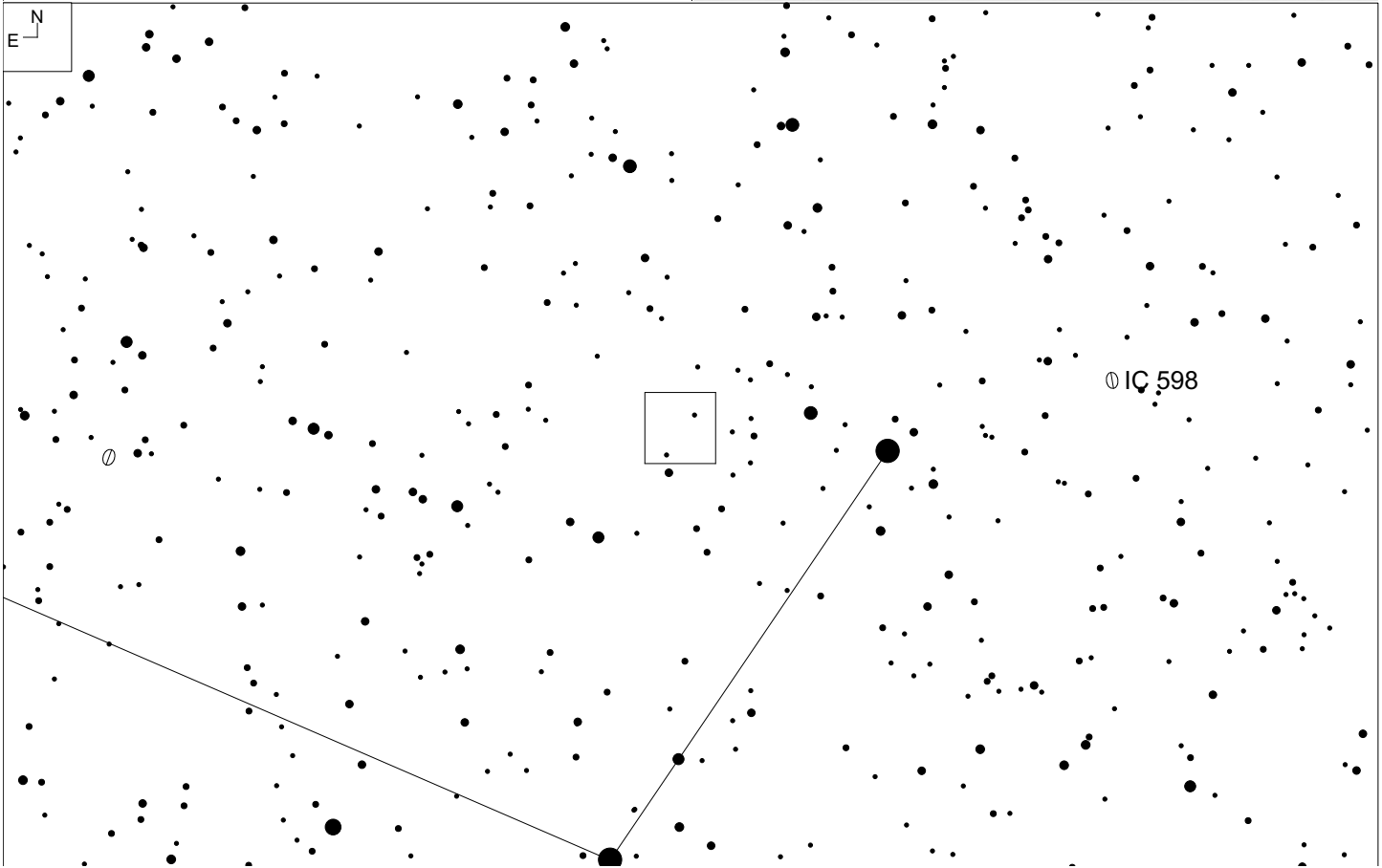
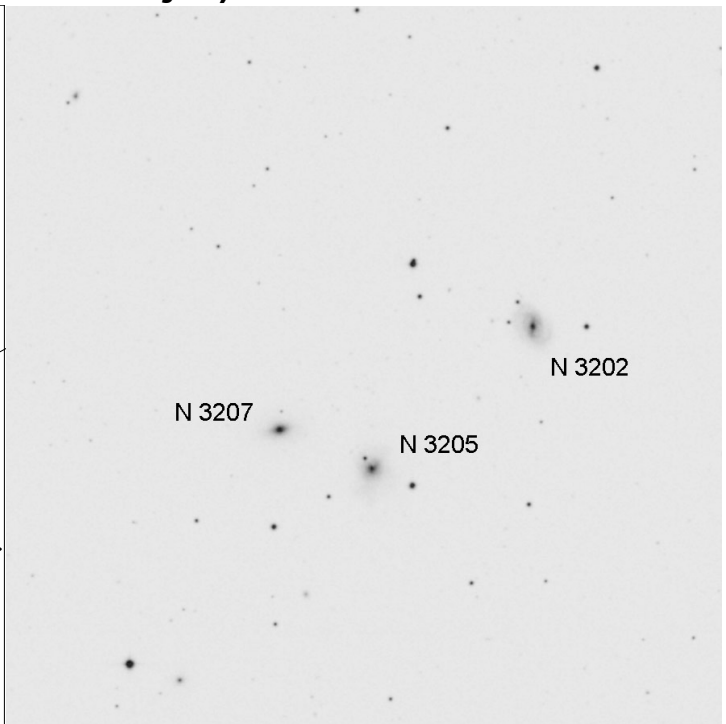
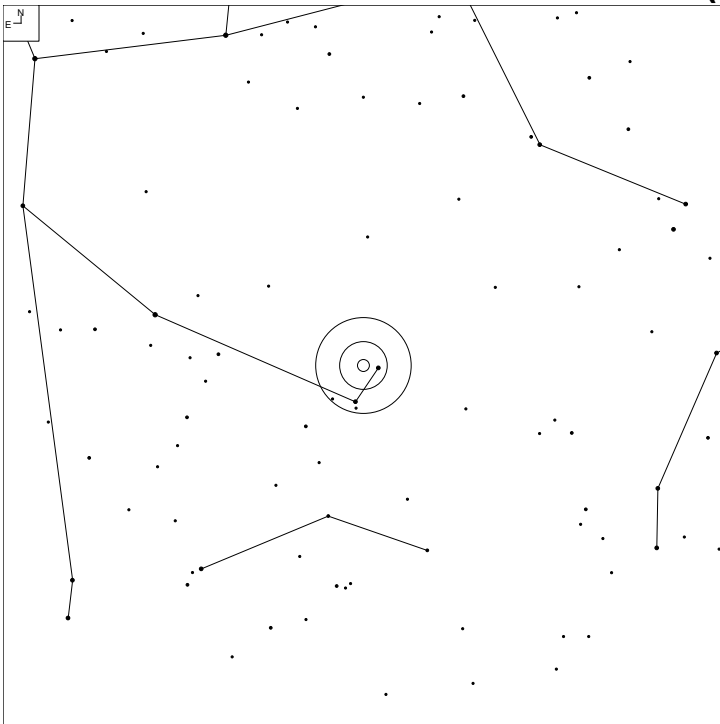
Miles Paul trio

M-81 (Ursa Major)



Object (KTG 28)	RA	Dec	Mag	Size
M-81	10 00 11.8	+69 11 22	7.9	27.1 x 14.2'
M-82			9.3	11.3 x 4.2'
NGC 3077			9.9	5.5 x 4.0'

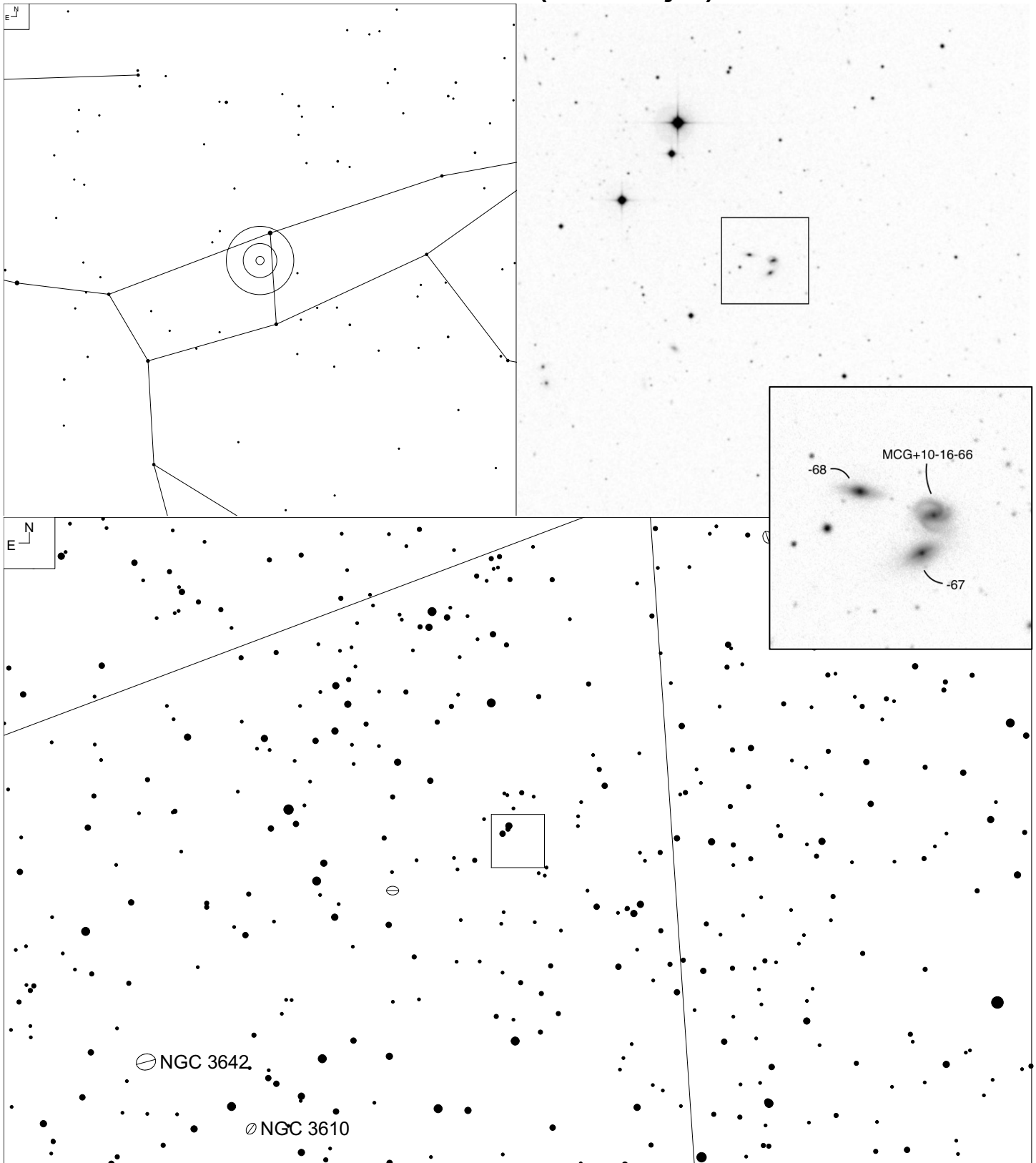
NGC 3202 (Ursa Major)



Object	RA	Dec	Mag	Size
NGC 3202	10 20 31.9	+43 01 18	14.1p	1.1 x 0.7'
NGC 3205			14.2p	1.6 x 1.0'
NGC 3207			14.2p	1.3 x 0.8'

Miles Paul trio

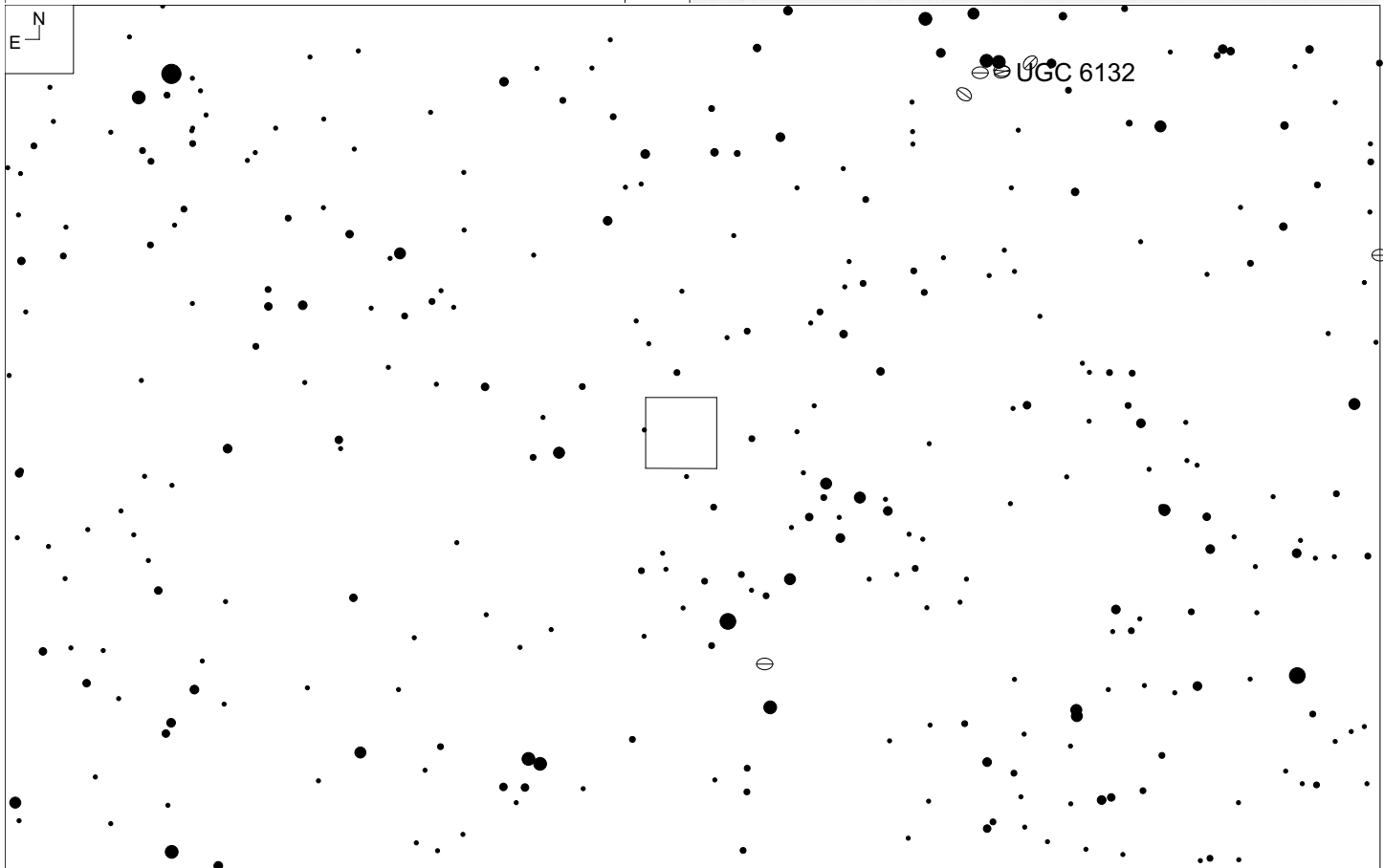
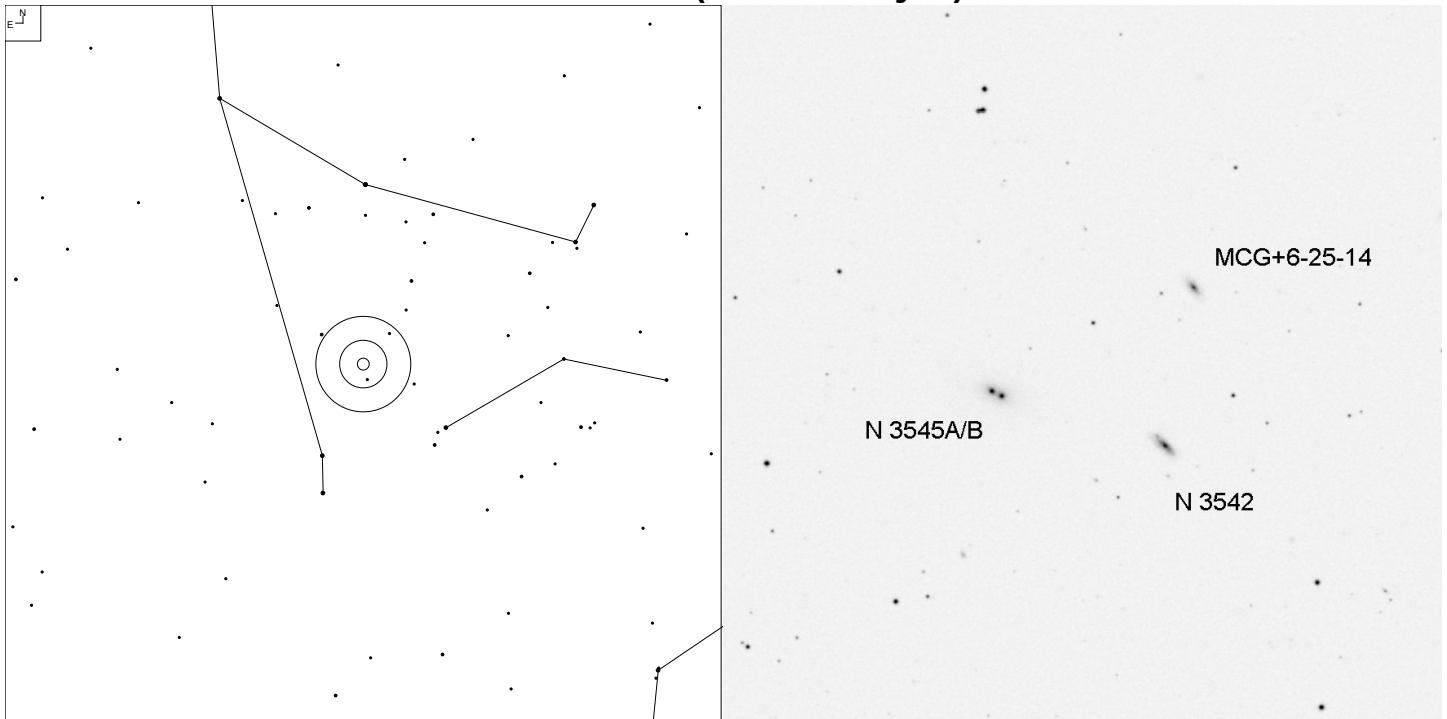
MCG+10-16-66 (Ursa Major)



Object	RA	Dec	Mag	Size
MCG+10-16-66	11 08 51.5	+60 02 35	16.7	0.5 x 0.3'
MCG+10-16-67			15.9	0.3 x 0.2'
MCG+10-16-68			17.7	0.4 x 0.1'

Miles Paul trio

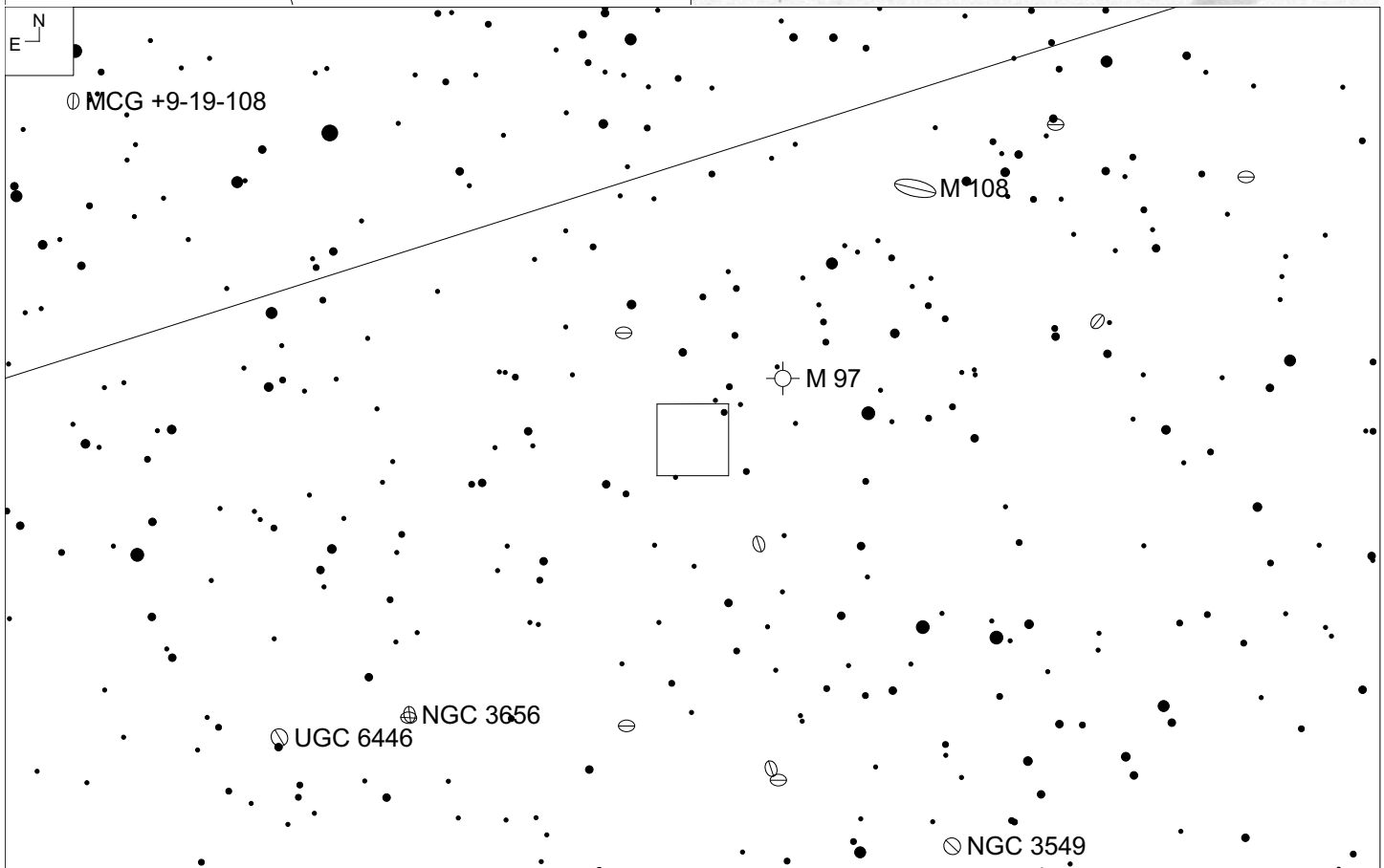
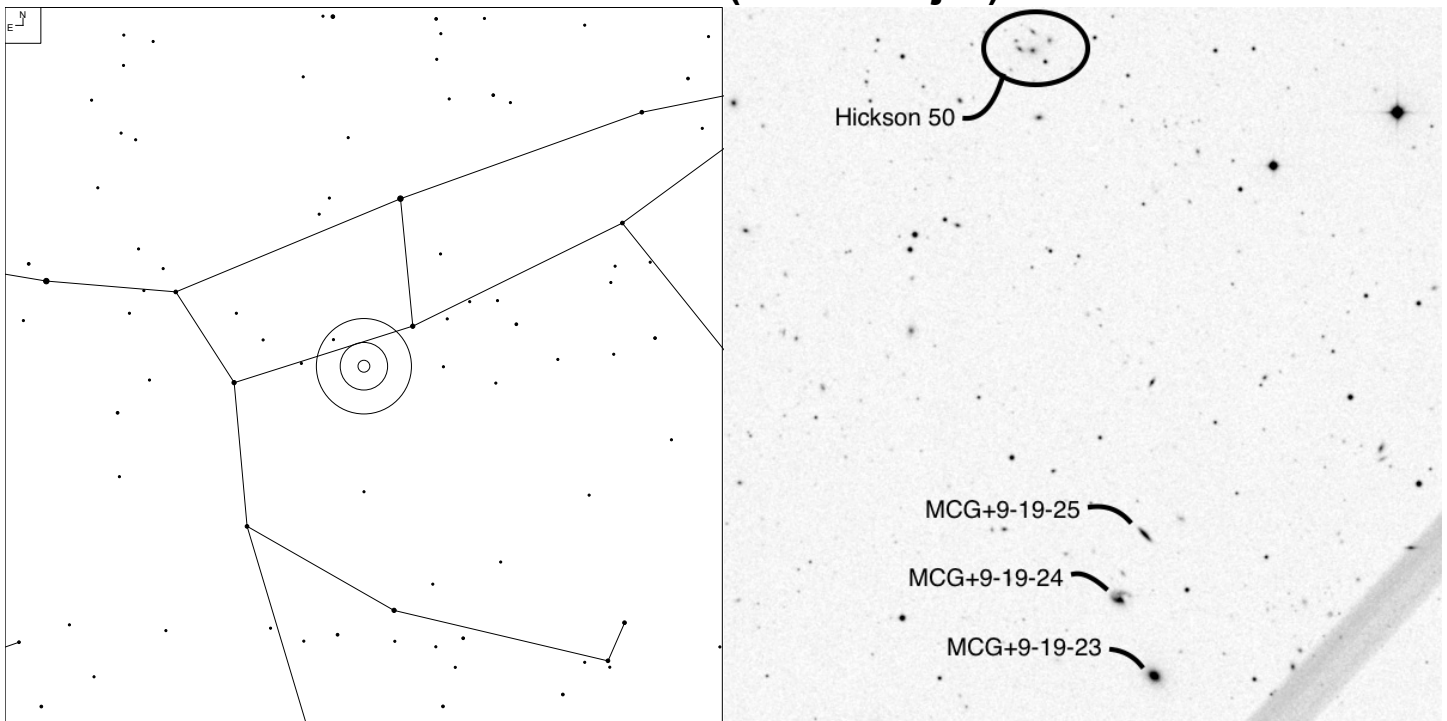
NGC 3545 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 3545A/B	11 10 12.3	+36 57 52	14.8	0.5 x 0.5'
NGC 3542			15.1p	1.0 x 0.4'
MCG+6-25-14			15.5	0.8 x 0.4'

Miles Paul trio

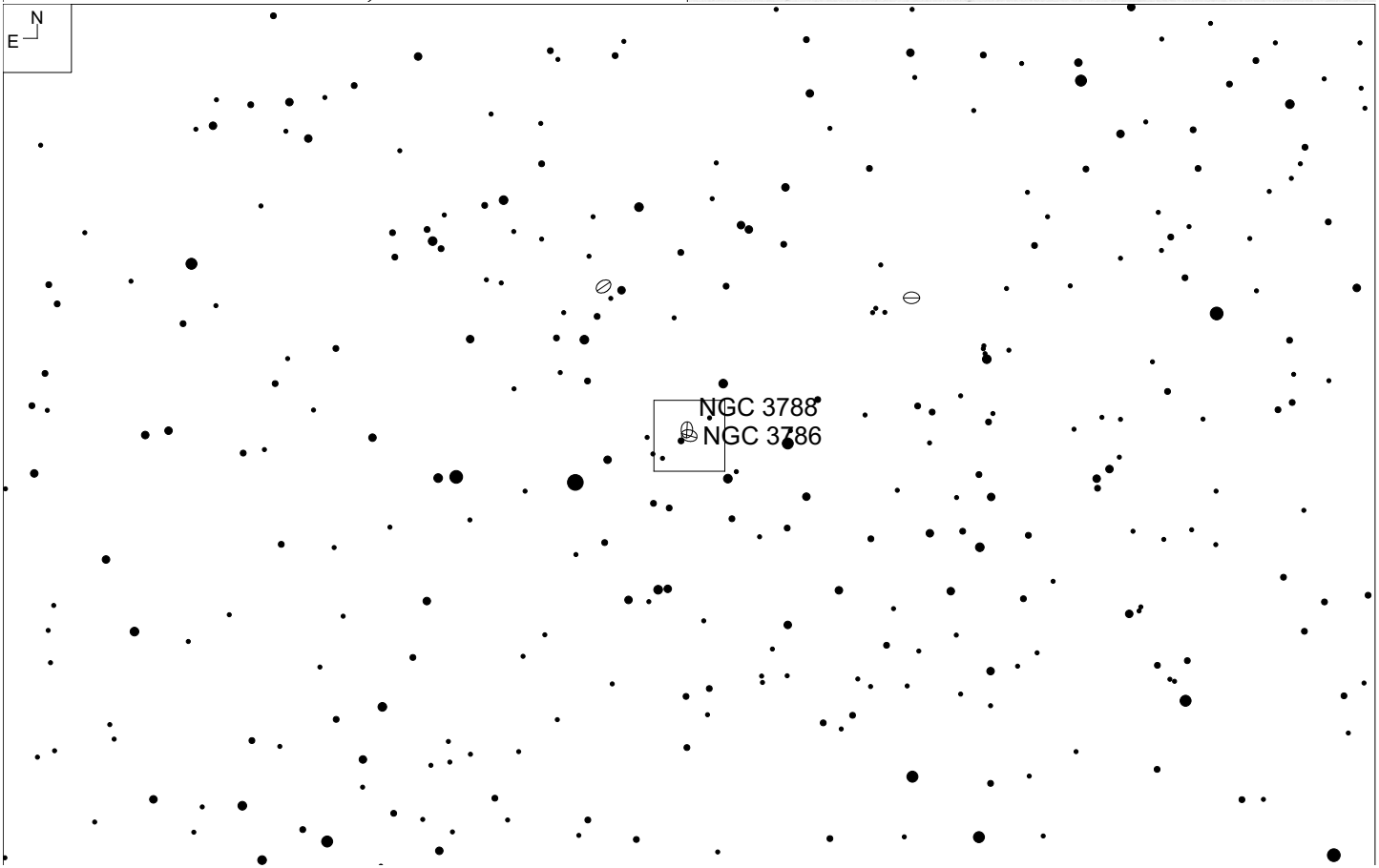
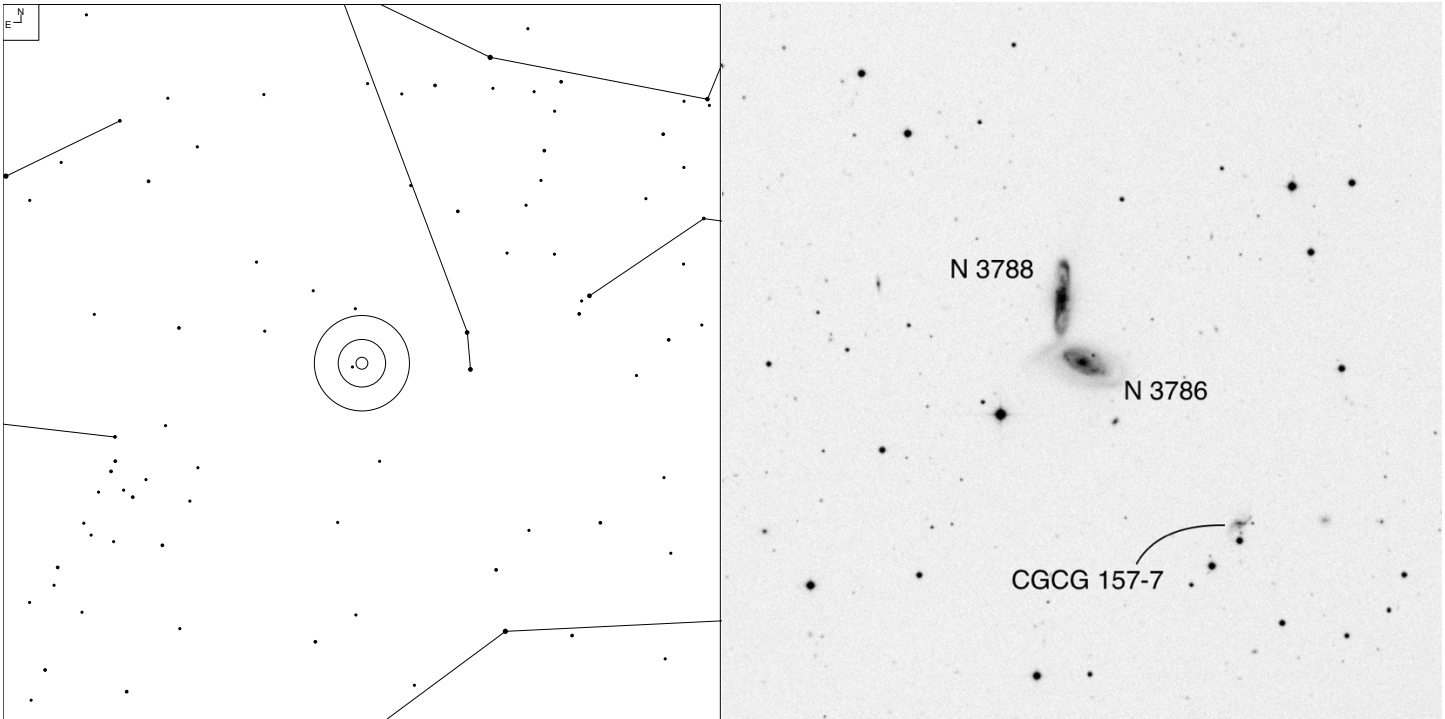
MCG+9-19-25 (URSA Major)



Object	RA	Dec	Mag	Size
MCG+9-19-25	11 16 46.7	+54 45 04	14.7	0.6 x 0.2'
MCG+9-19-24			15.3	0.7 x 0.6'
MCG+9-19-23			14.8	0.8 x 0.6'

Miles Paul trio

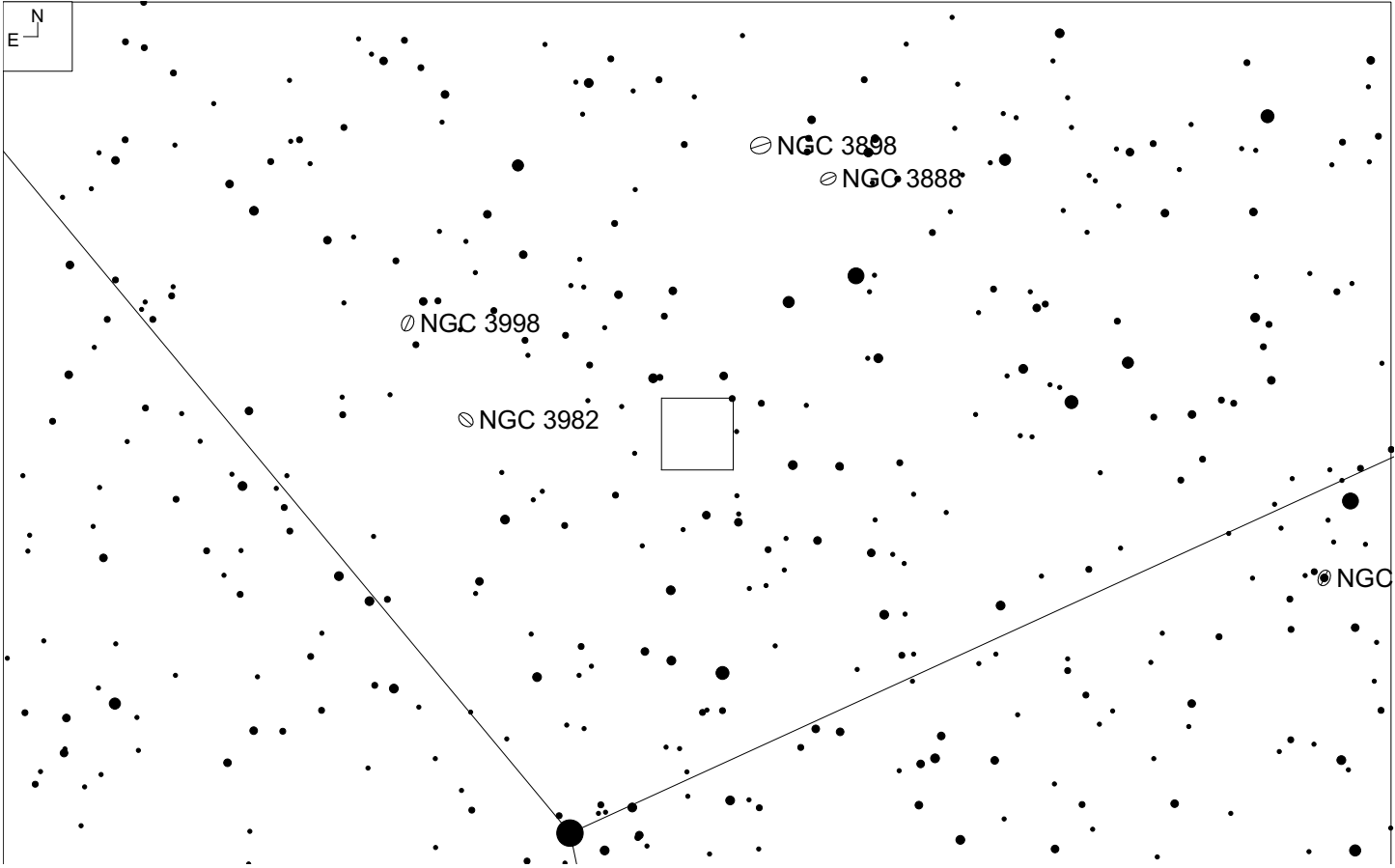
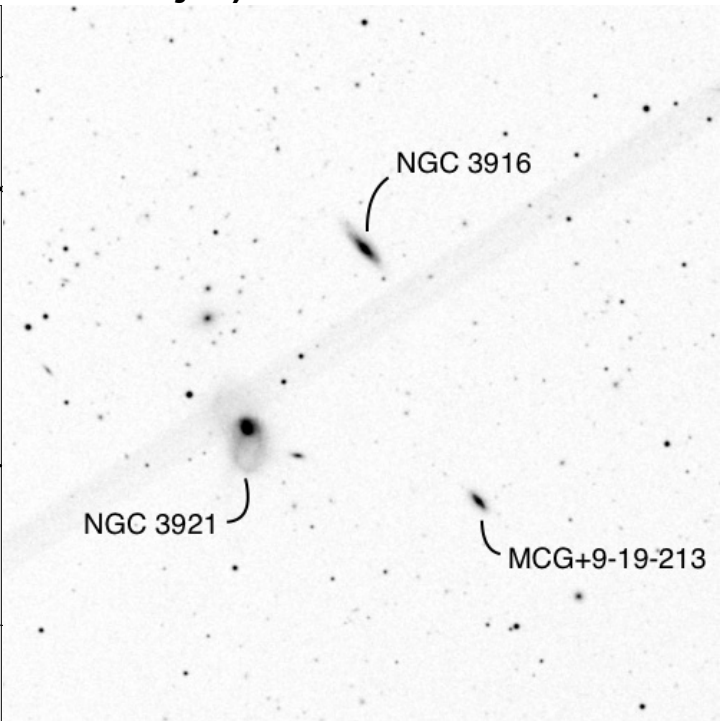
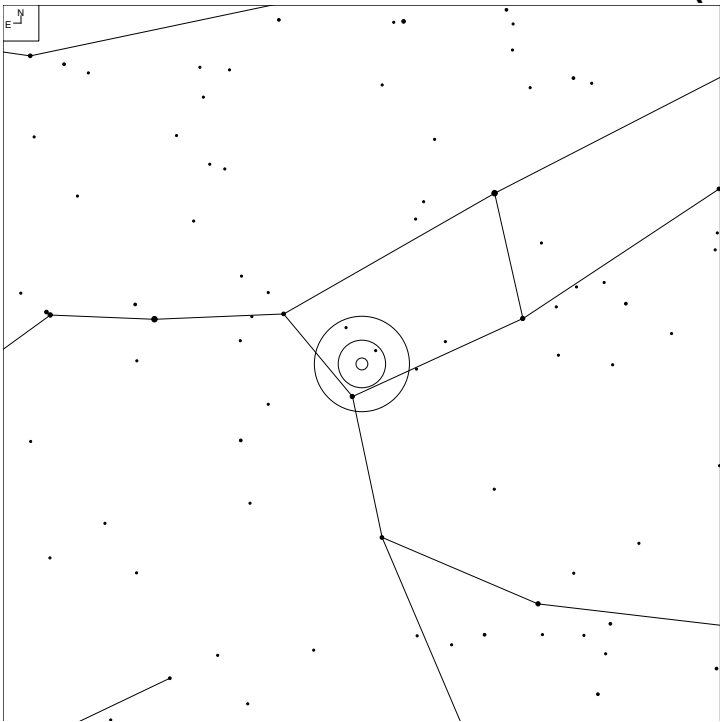
NGC 3786 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 3786	11 39 42.4	+31 54 35	13.2p	2.2 x 1.2'
NGC 3788			13.5p	1.7 x 0.6'
CGCG 157-7			15.5	0.6 x 0.4'

Note: NGC 3793 mislabeled in several star charts. Actual catalog is CGCG 157-7 and MCG+05-28-5. Miles Paul trio

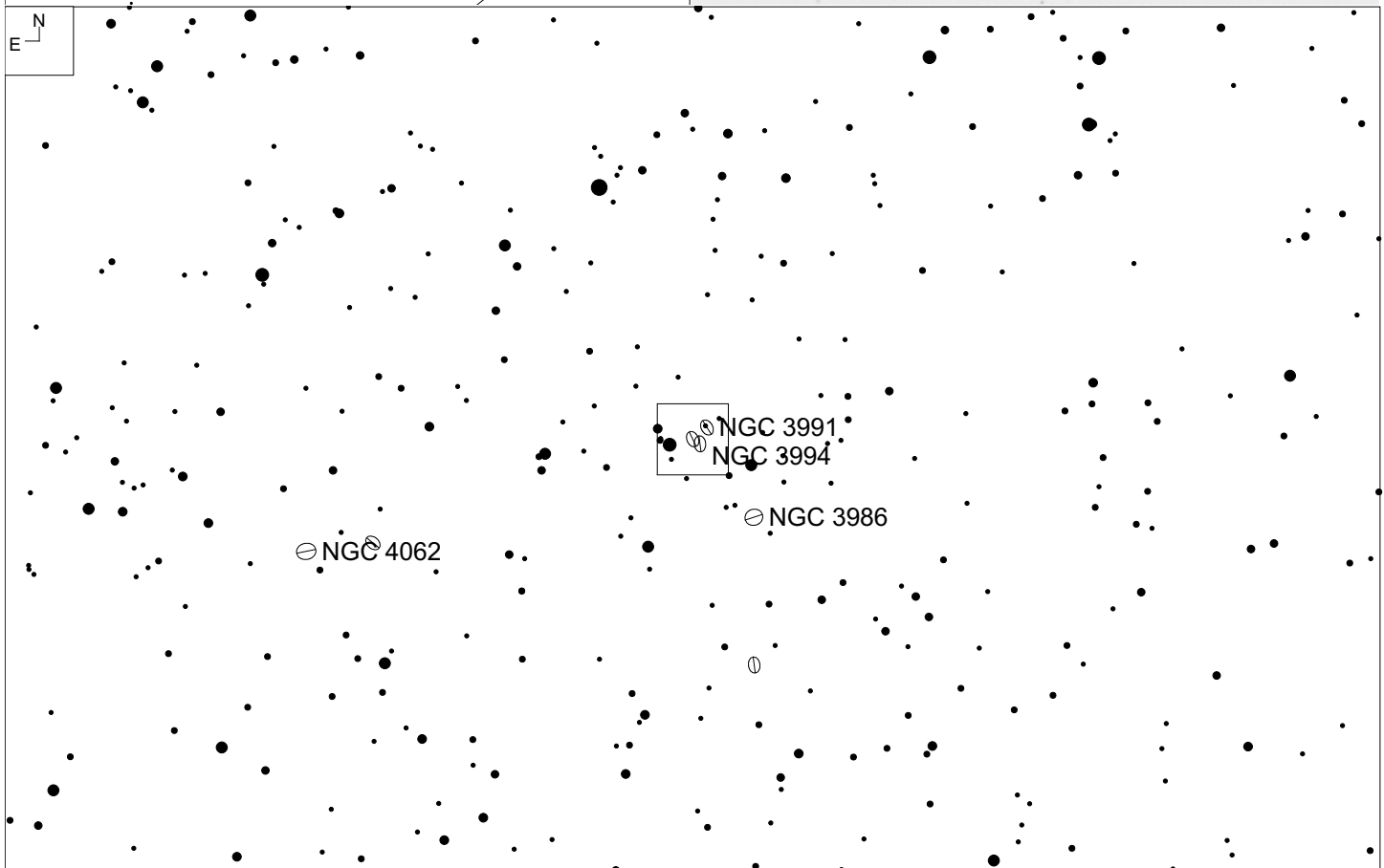
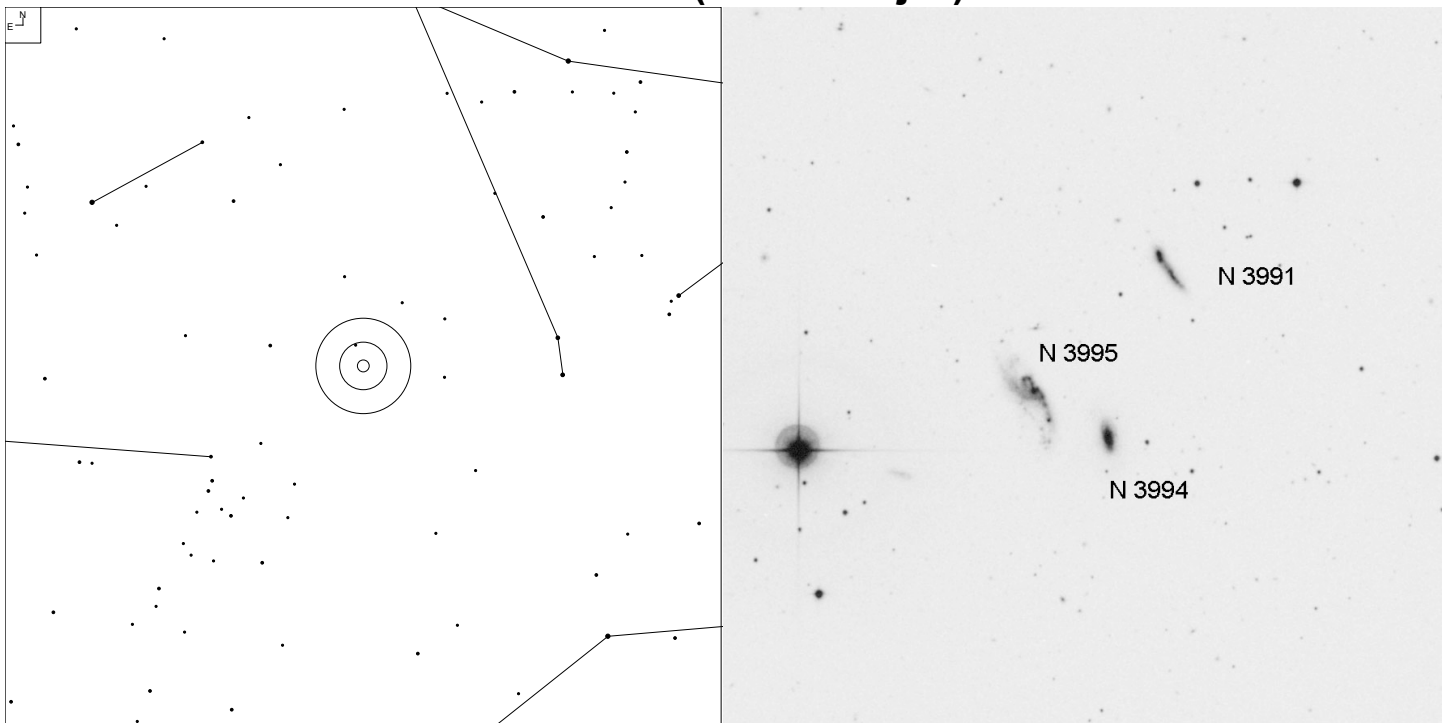
NGC 3921 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 3921	11 51 06.5	+55 04 24	13.1b	2.1 x 1.2'
NGC 3916			14.7p	1.6 x 0.5'
MCG+9-19-213			14.2	0.7 x 0.4'

Miles Paul trio

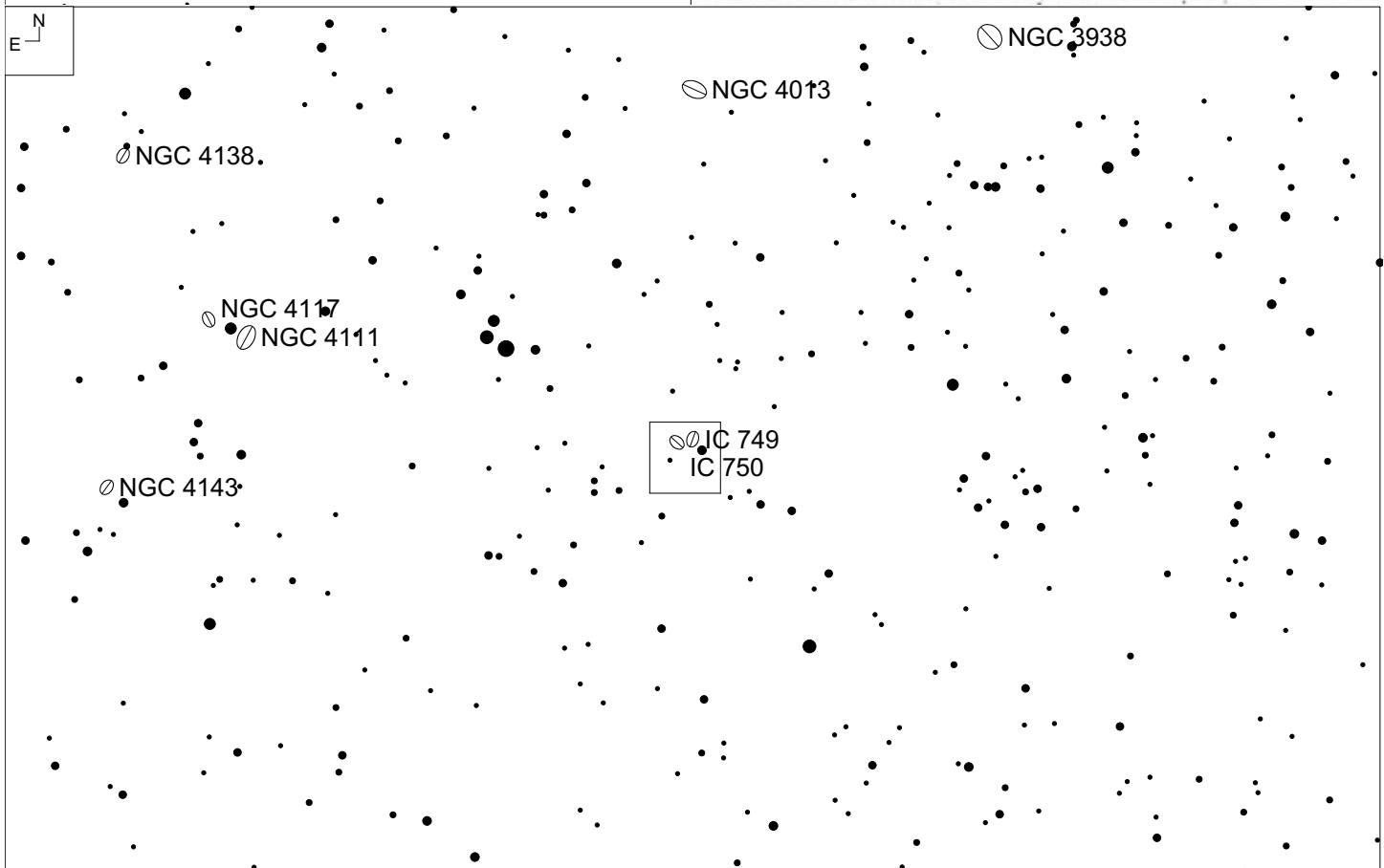
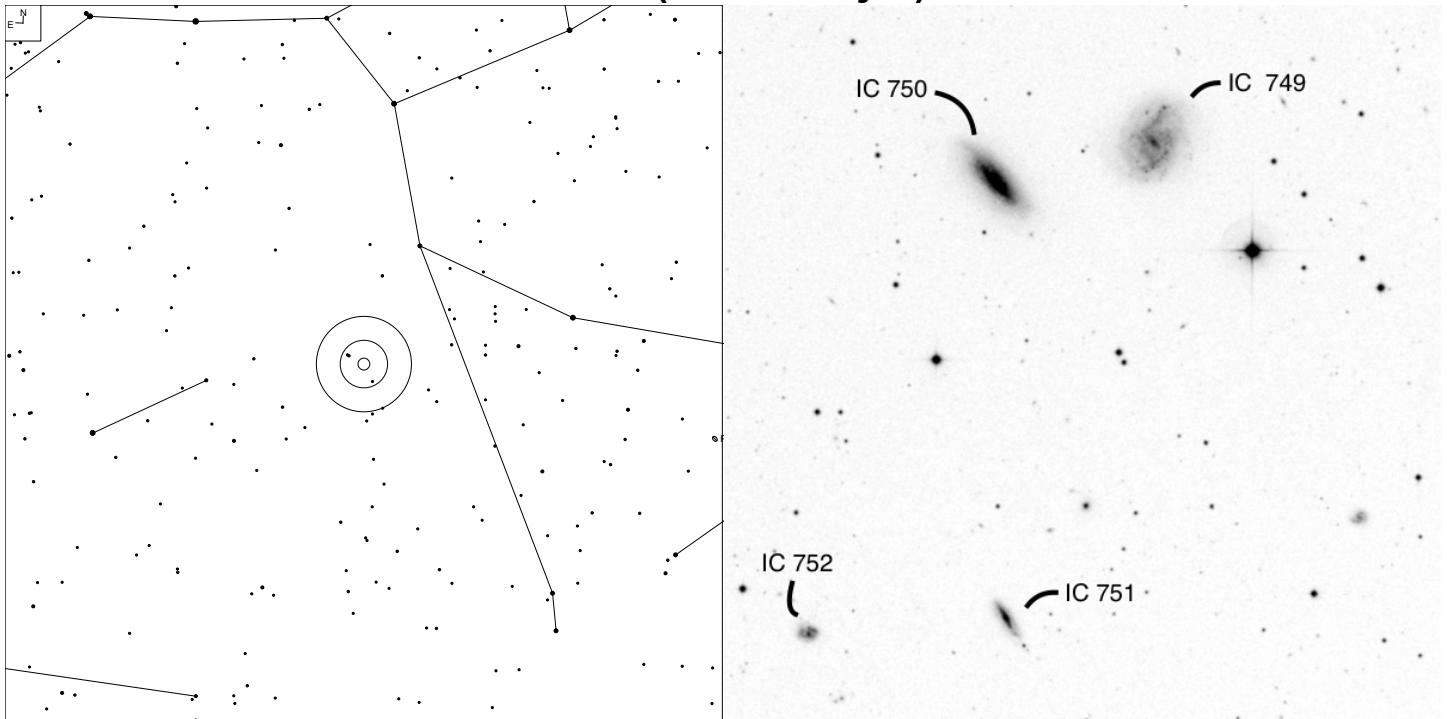
NGC 3995 (URSA Major)



Object (KTG 39)	RA	Dec	Mag	Size
NGC 3995	11 57 44.4	+32 17 38	13.0	3.1 x 1.2'
NGC 3994			13.3b	1.5 x 1.0'
NGC 3991			13.5	1.9 x 0.6'

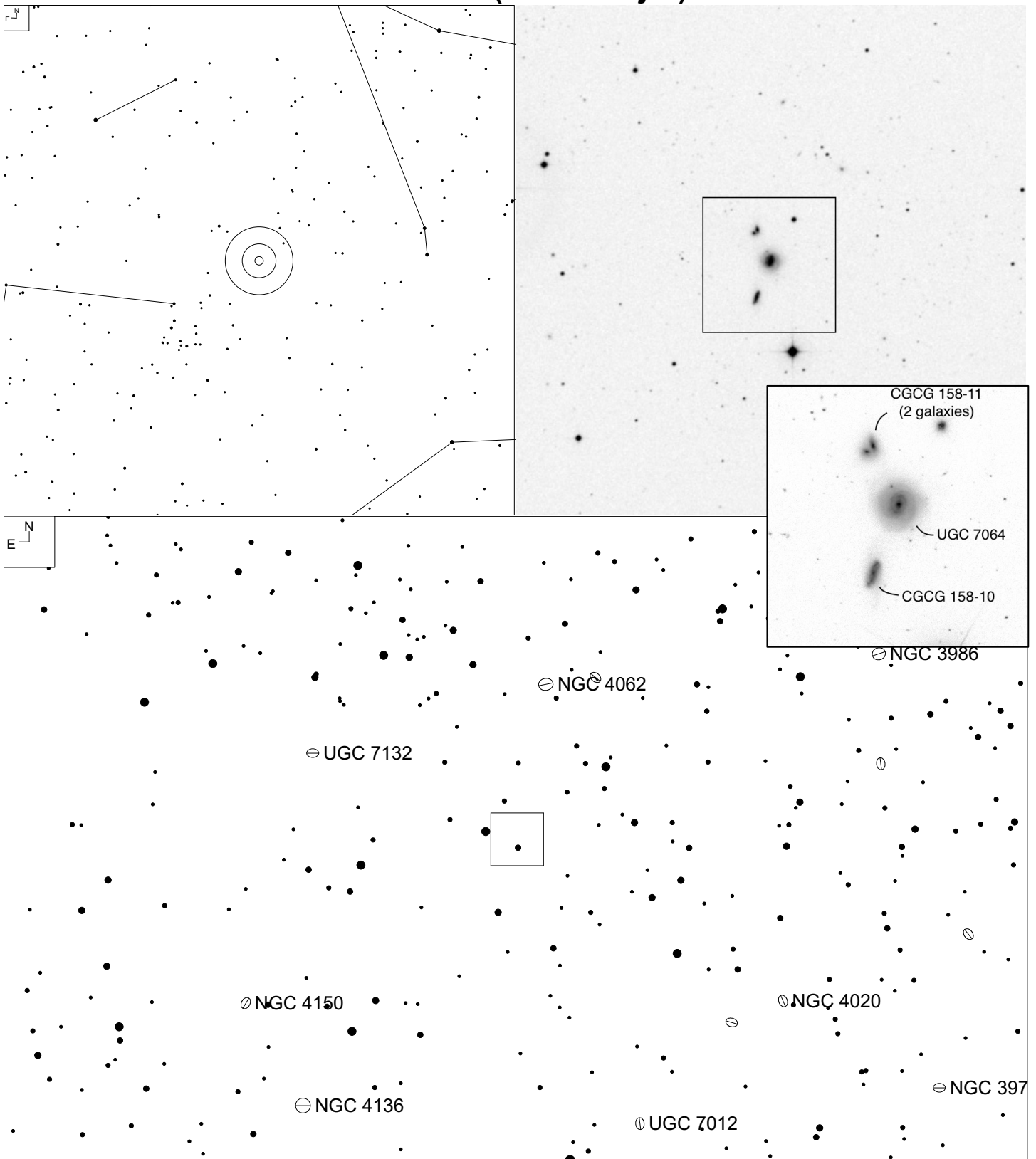
Miles Paul and Astronomical League trio

IC 749 (URSA Major)



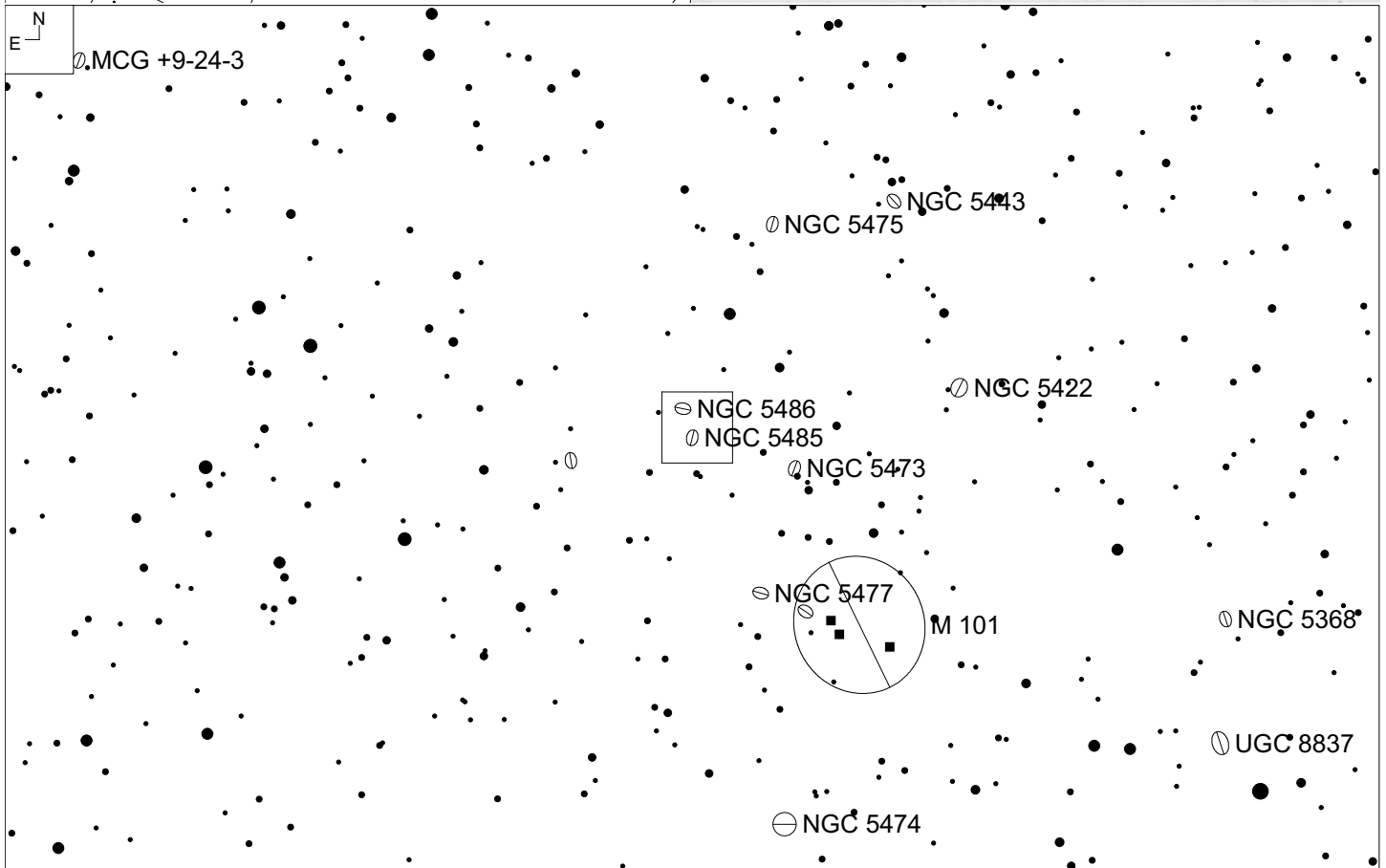
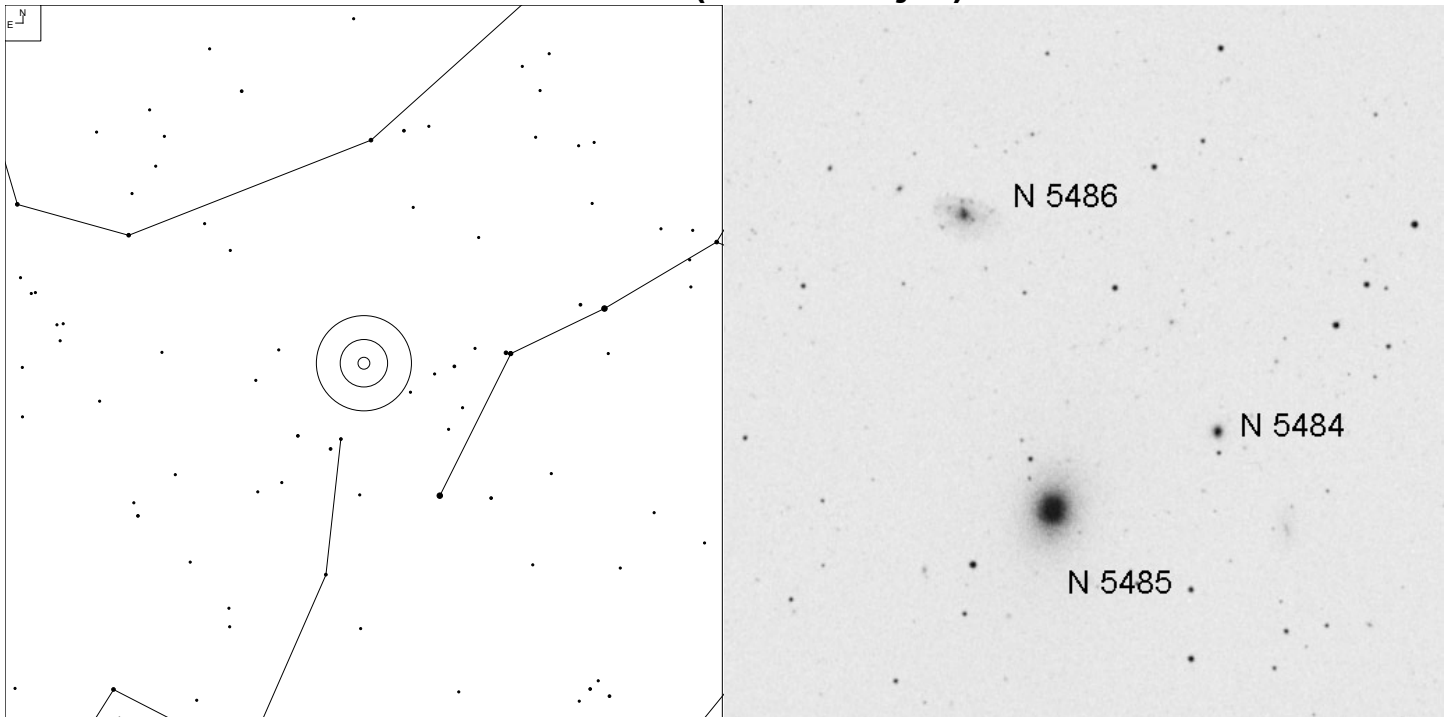
Object (KTG 40)	RA	Dec	Mag	Size
IC 749	11 58 33.9	+42 44 02	12.9b	2.3 x 1.8'
IC 750			12.9b	2.6 x 1.1'
IC 751			15.1p	1.4 x 0.4'
IC 752			15.2b	0.6 x 0.5'

UGC 7064 (URSA Major)



Object (KTG 41)	RA	Dec	Mag	Size
UGC 7064	12 04 43.4	+31 10 38	14.2	0.9 x 0.9'
CGCG 158-10			15.8p	0.6 x 0.3'
CGCG 158-11			15.7	0.5 x 0.4'

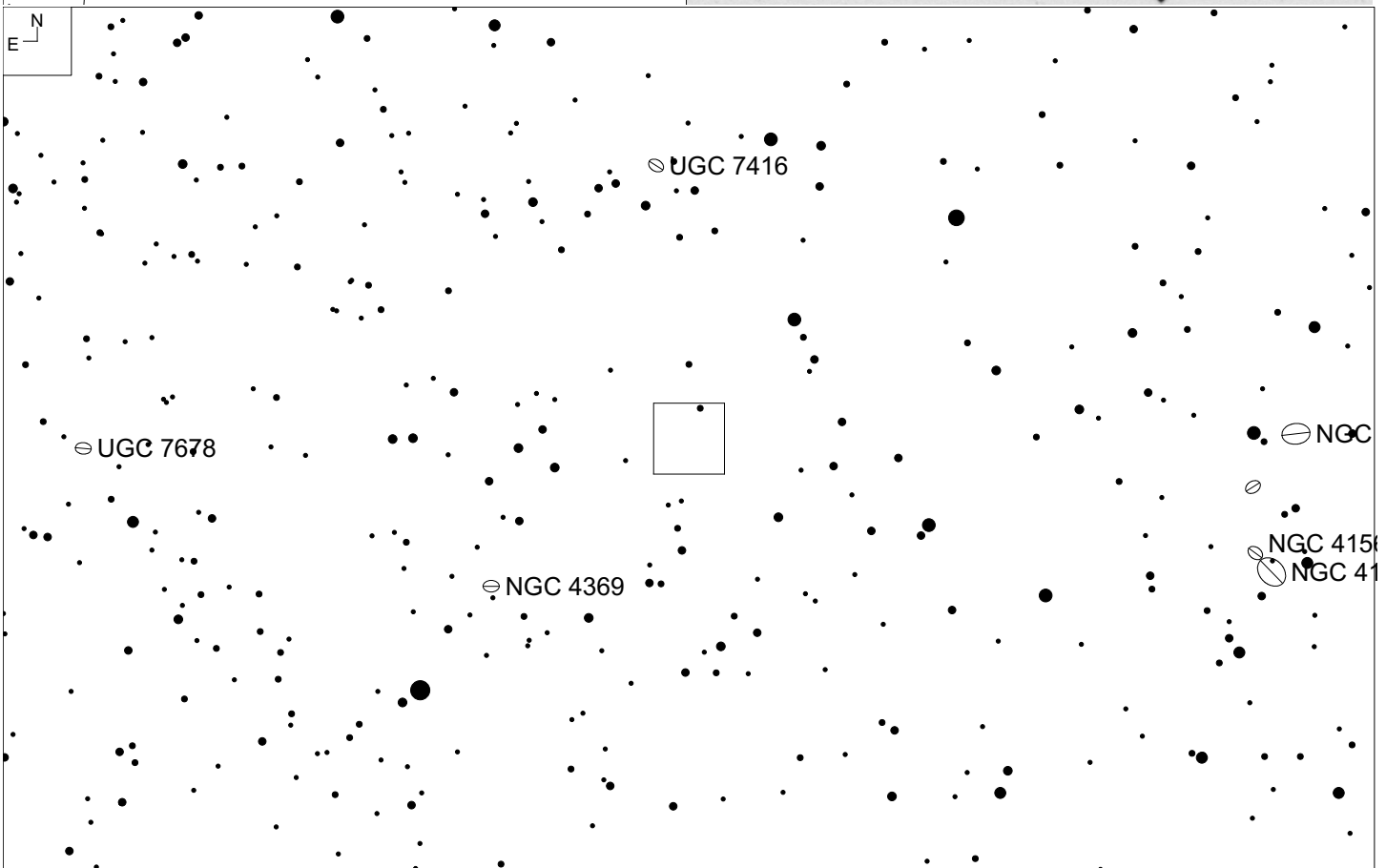
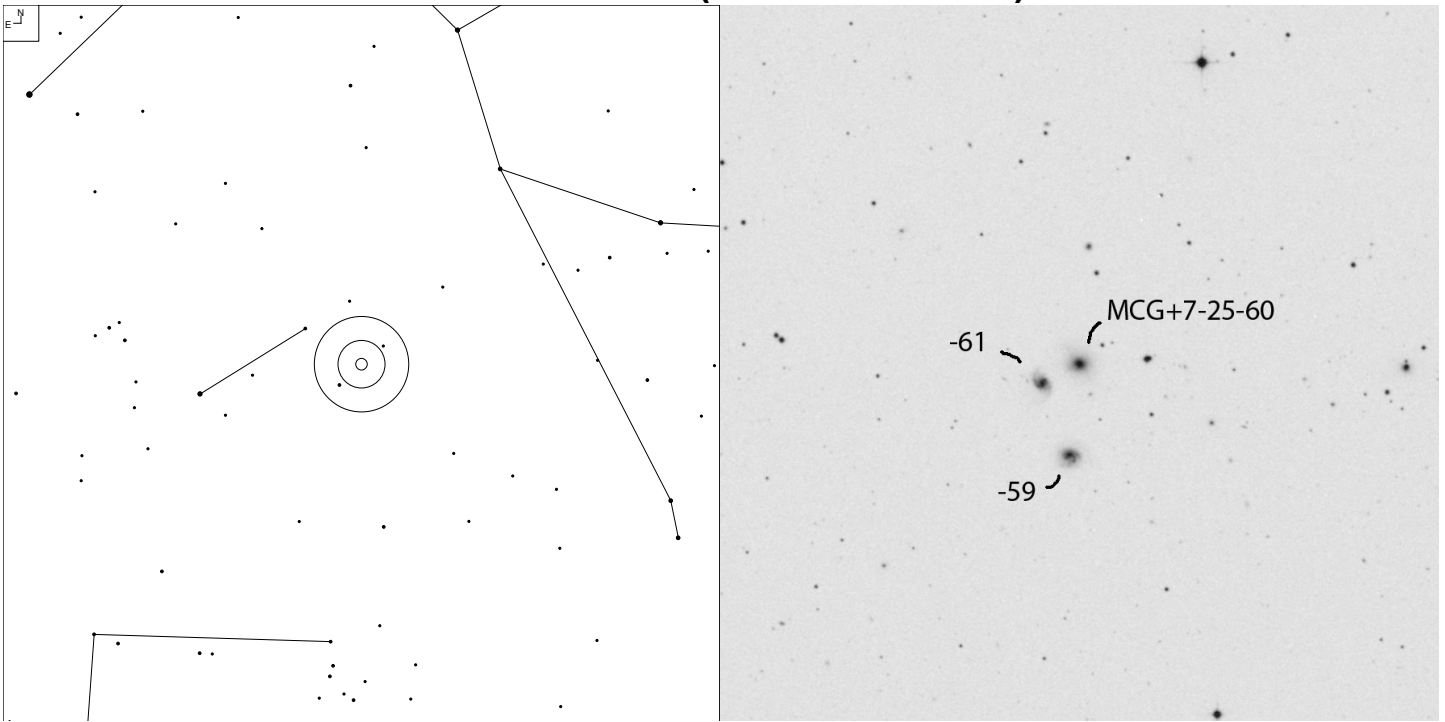
NGC 5485 (URSA Major)



Object	RA	Dec	Mag	Size
NGC 5485	14 07 11.3	+55 00 05	11.4v	2.4 x 1.8'
NGC 5484			15.7p	0.5 x 0.5'
NGC 5486			13.8p	1.8 x 1.1'

Miles Paul trio

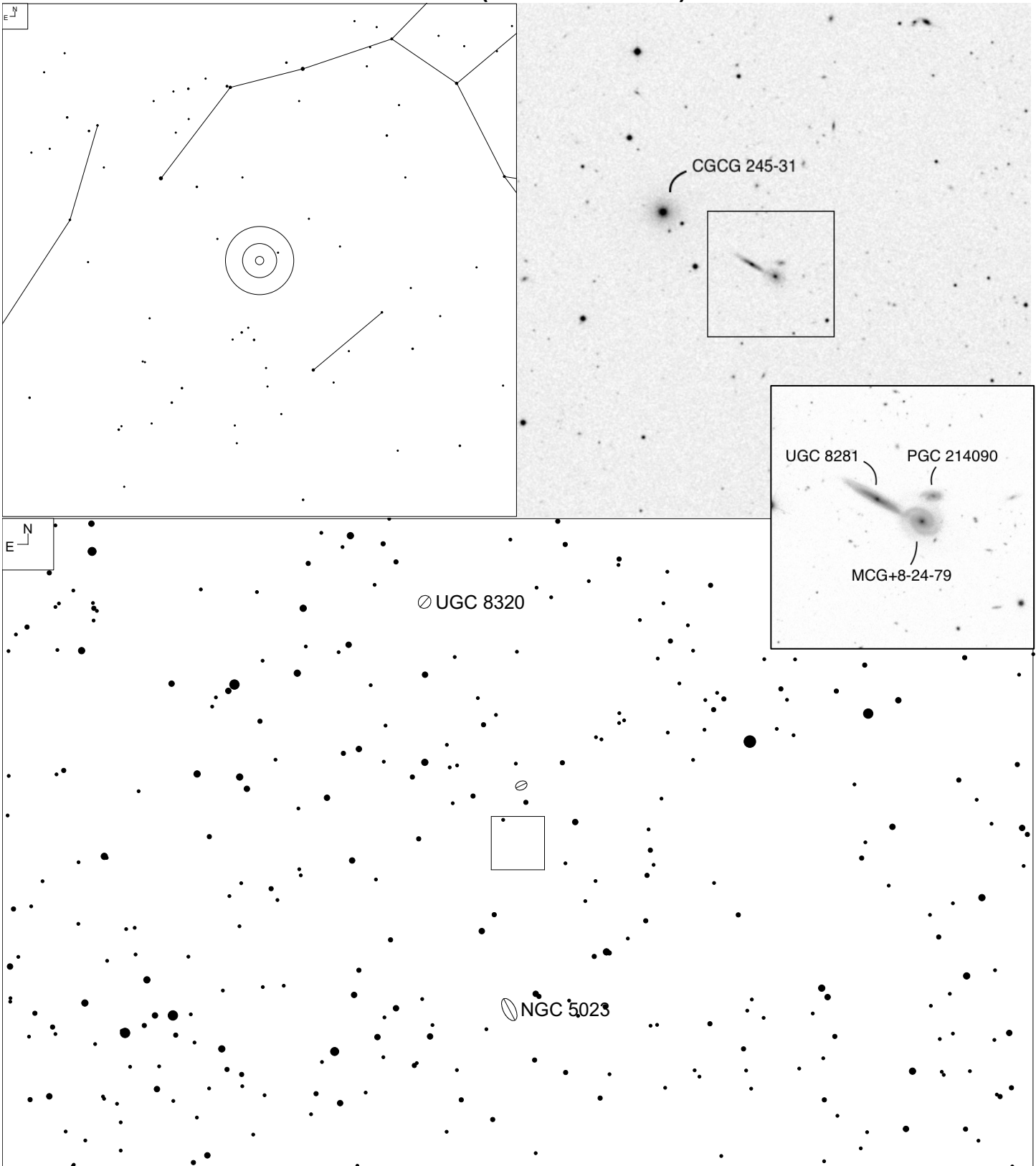
MCG+7-25-60 (Canes Venatici)



Object (KTG 43)	RA	Dec	Mag	Size
MCG+7-25-60	12 21 02.1	+39 53 59	15.4	0.7 x 0.6'
MCG+7-25-59			15.2	0.8 x 0.6'
MCG+7-25-61			15.1	0.8 x 0.5'

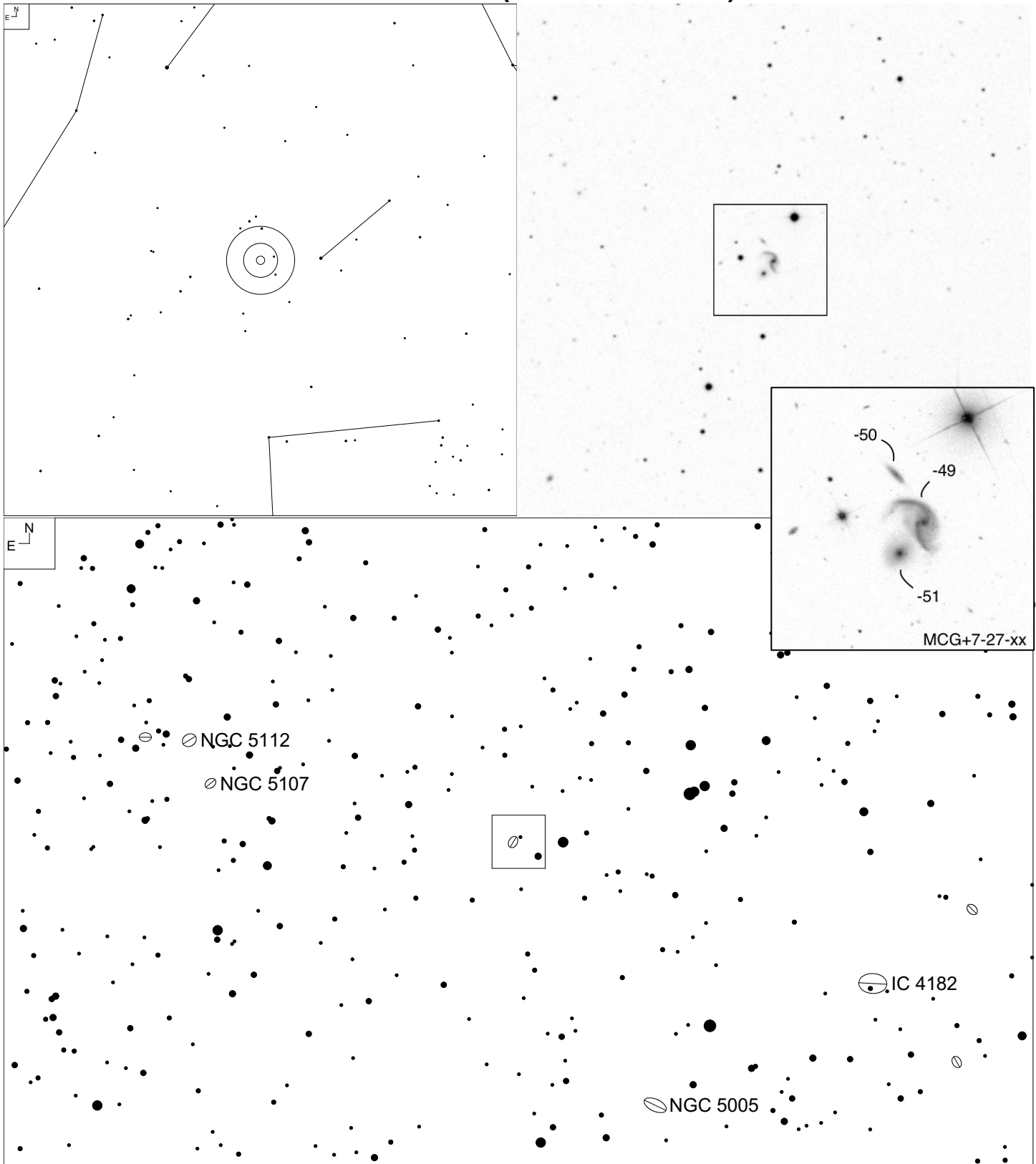
Miles Paul trio

UGC 8281 (Canes Venatici)



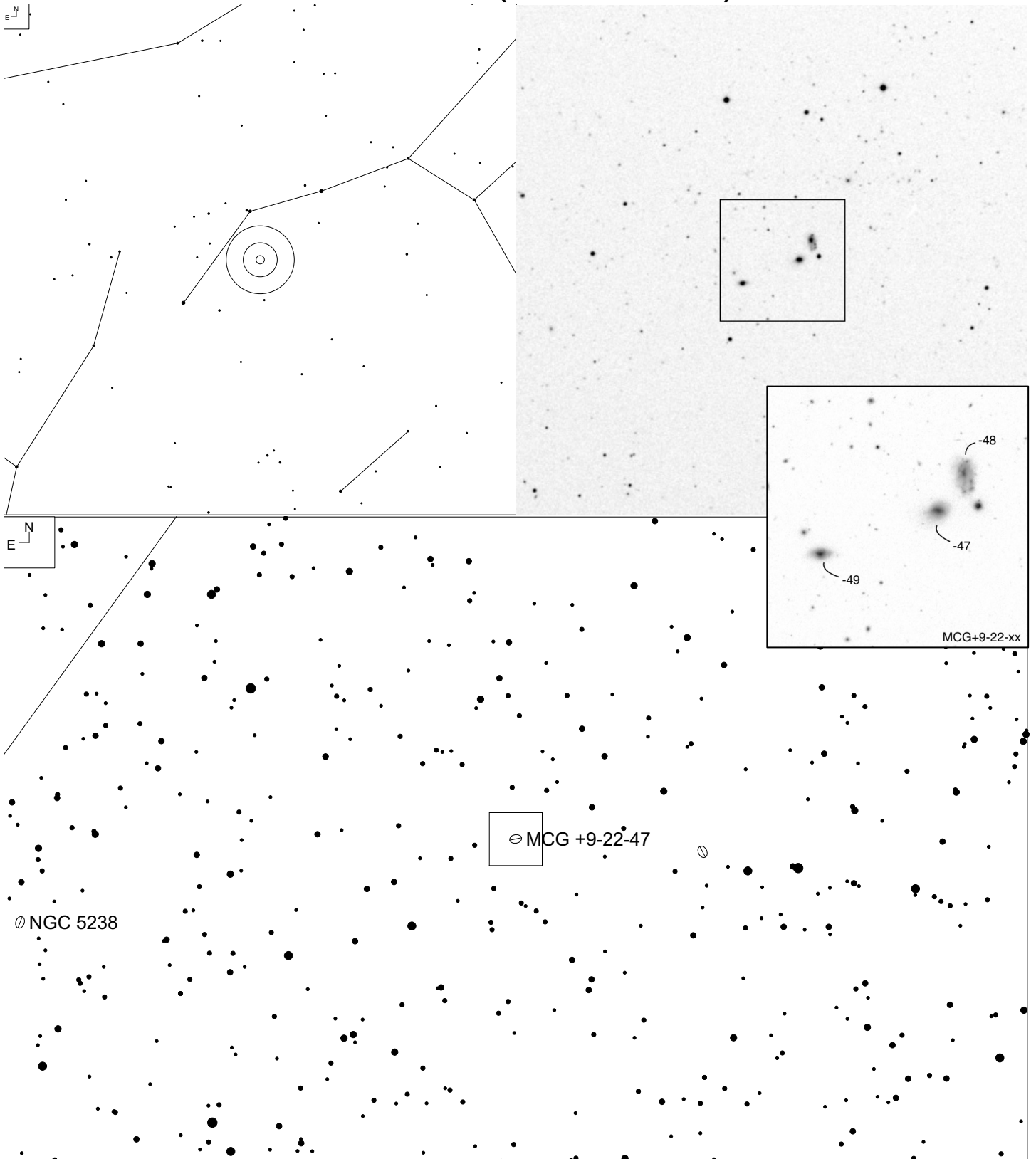
Object	RA	Dec	Mag	Size
UGC 8281	13 12 02.3	+44 48 52	16.3	1.1 x 0.2'
MCG+8-24-79			16.6	0.4 x 0.4'
PGC 214090			17.1g	0.4 x 0.2'

MCG+7-27-49 (Canes Venatici)



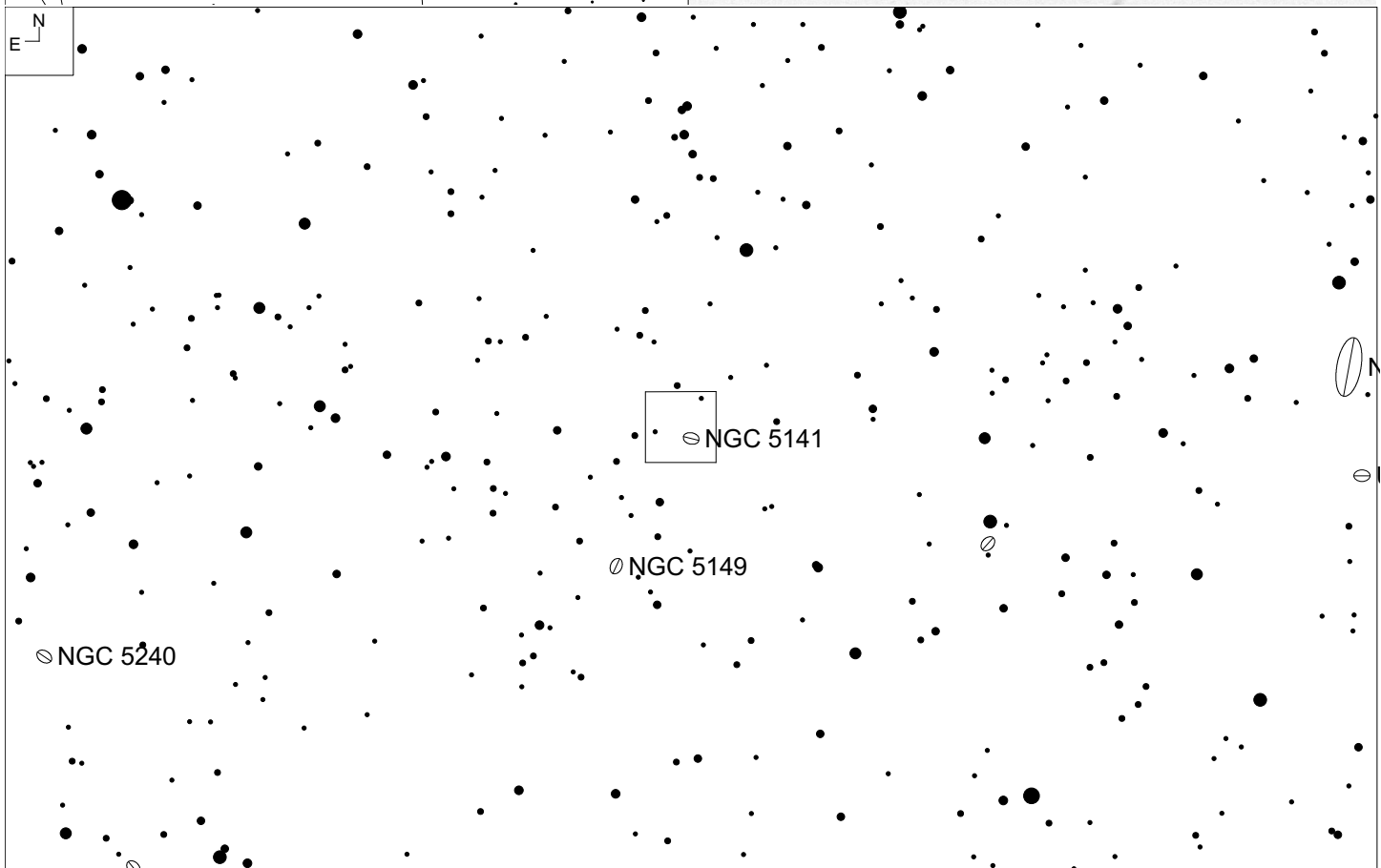
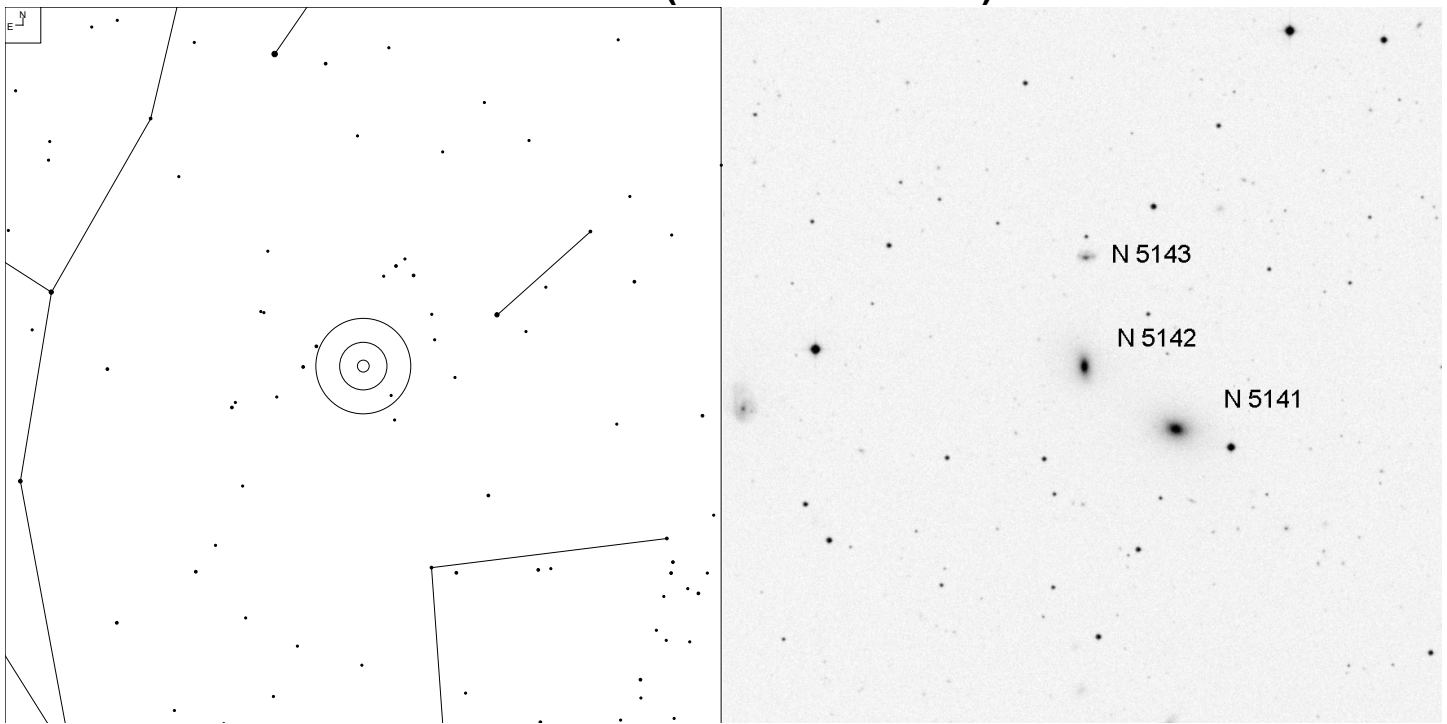
Object	RA	Dec	Mag	Size
MCG+7-27-49	13 14 06.9	+38 16 52	14.6	0.9 x 0.7'
MCG+7-27-50			17.5	0.3 x 0.1'
MCG+7-27-51			16.4	0.5 x 0.3'

MCG+9-22-48 (Canes Venatici)



Object	RA	Dec	Mag	Size
MCG+9-22-48	13 19 47.4	+52 04 15	15.4	0.7 x 0.4'
MCG+9-22-47			13.8	0.7 x 0.3'
MCG+9-22-49			16.0	0.2'

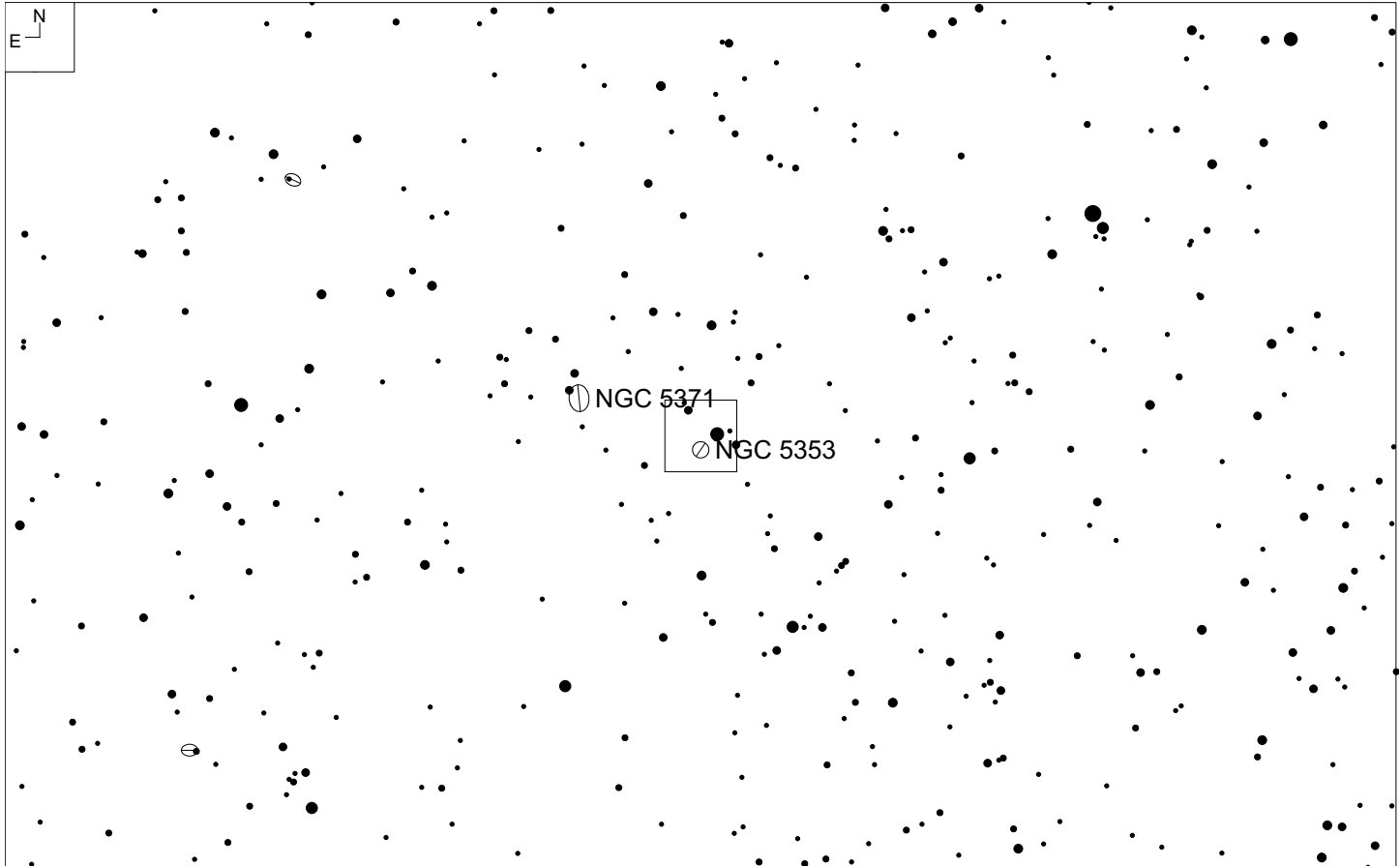
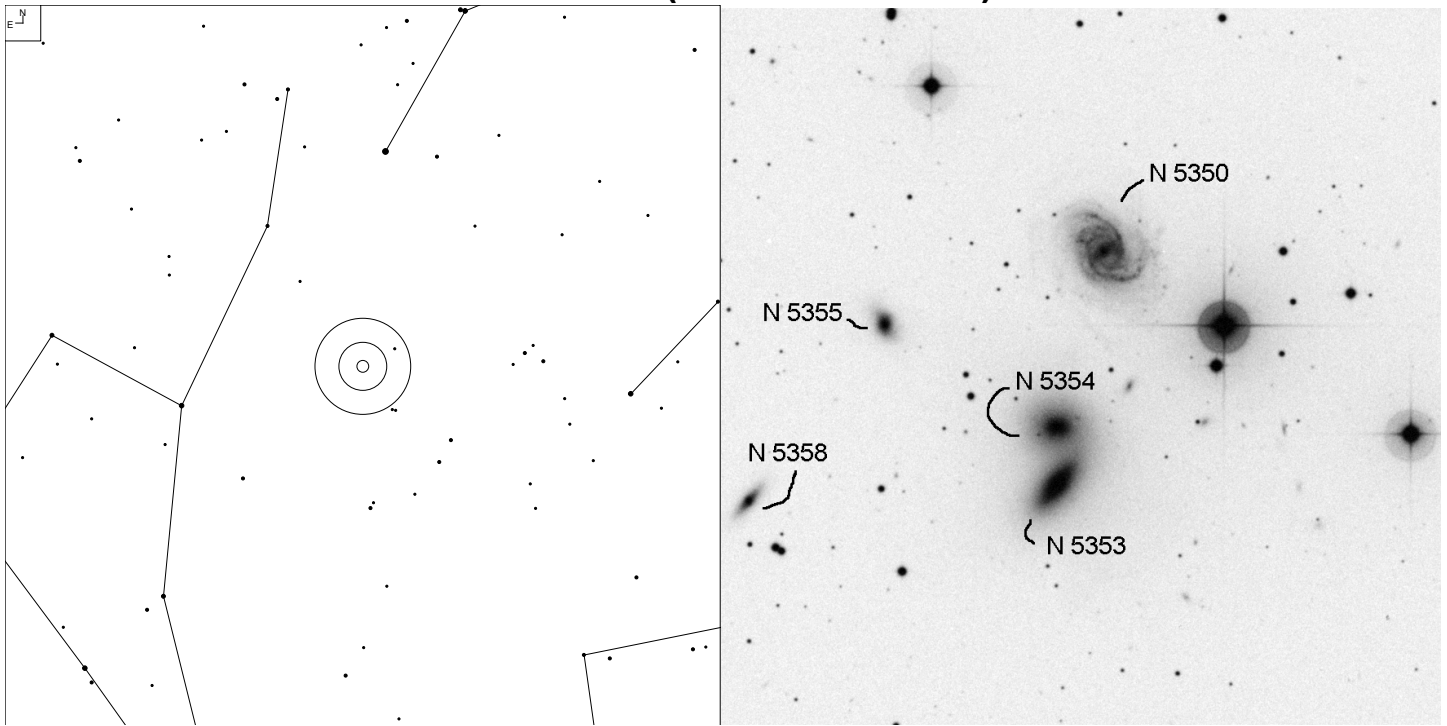
NGC 5141 (Canes Venatici)



Object	RA	Dec	Mag	Size
NGC 5141	13 24 51.6	+36 22 43	13.8b	1.6 x 1.2'
NGC 5142			14.2b	1.3 x 1.0'
NGC 5143			15.6	0.7 x 0.4'

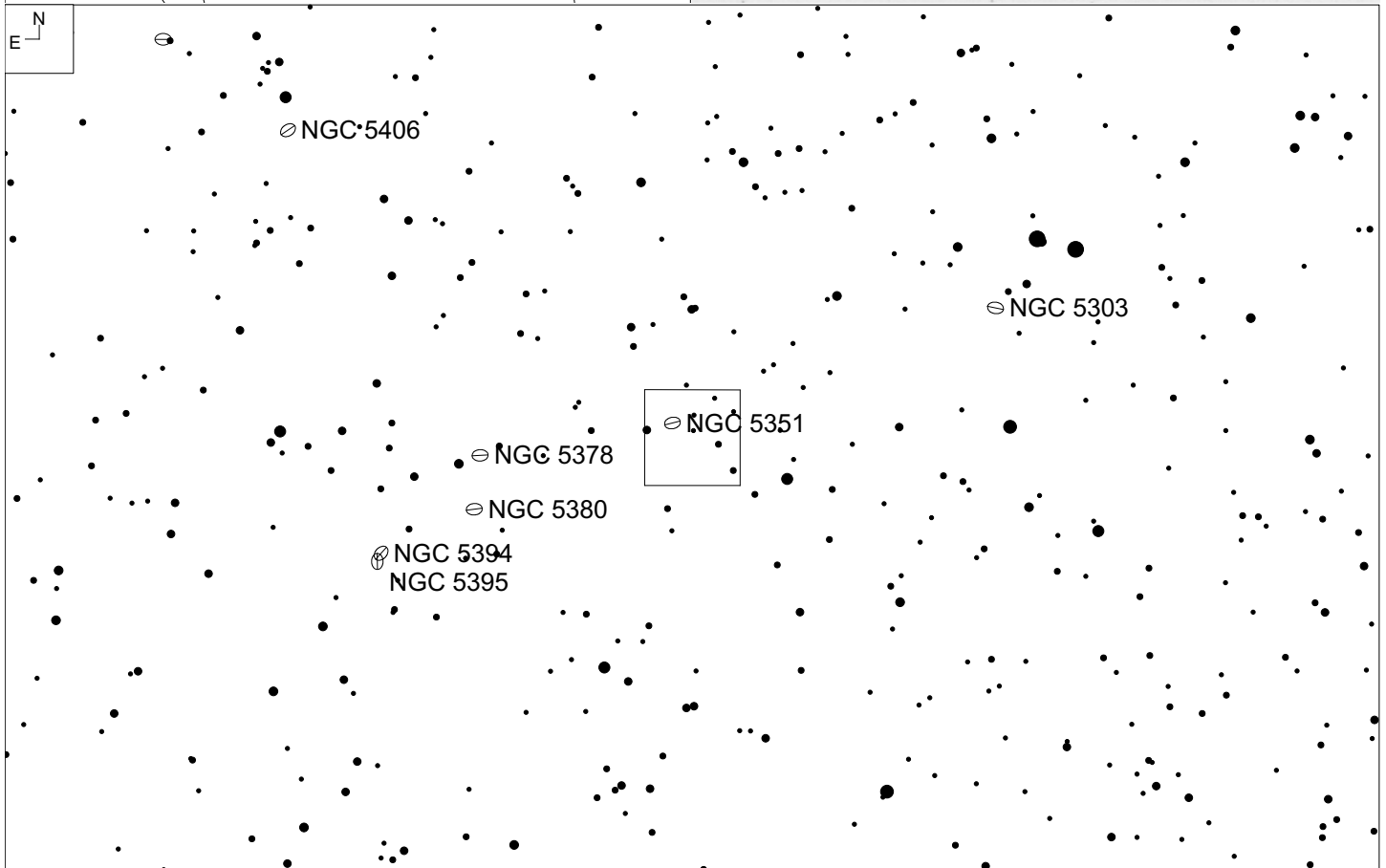
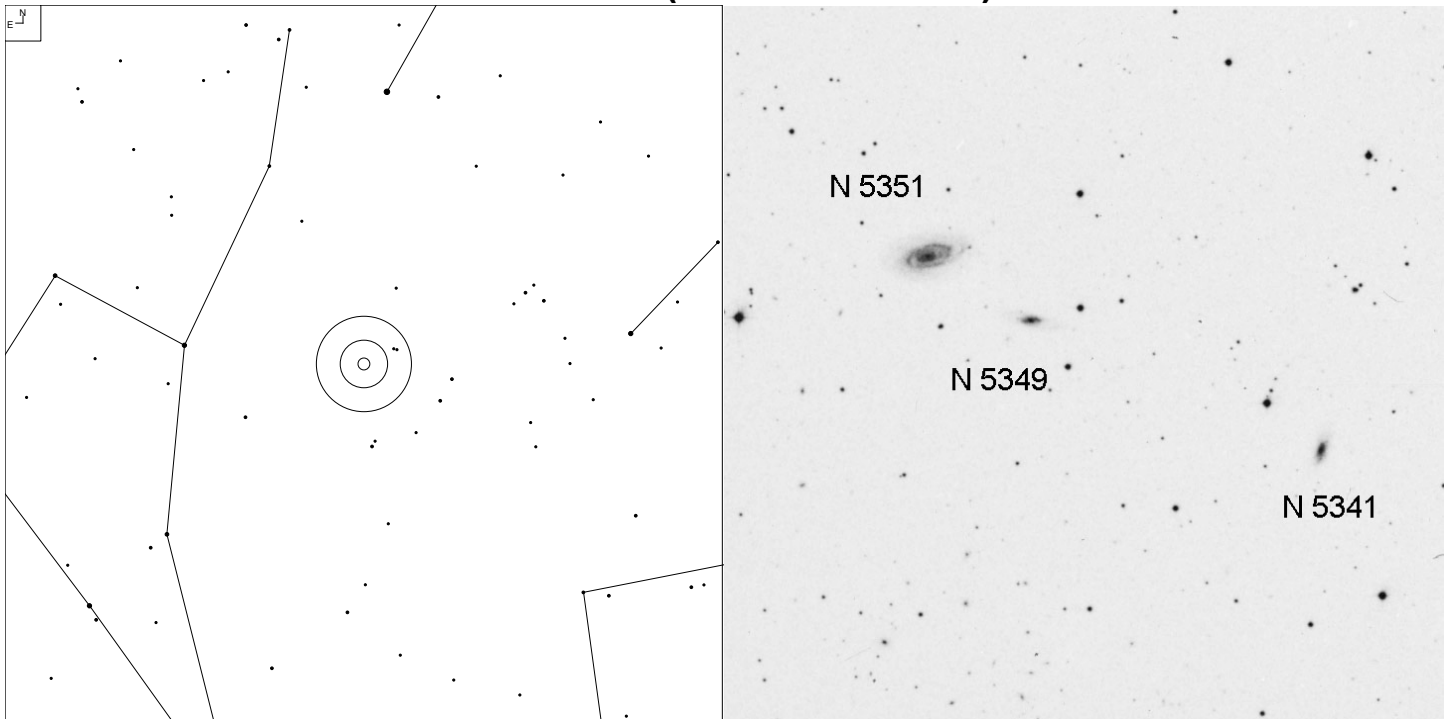
Miles Paul trio

NGC 5350 (Canes Venatici)



Object (KTG 50)	RA	Dec	Mag	Size
NGC 5350	13 53 24.1	+40 19 24	11.3	3.3 x 2.4'
NGC 5353			10.9	3.3 x 1.8'
NGC 5354			11.3	2.8 x 2.2'

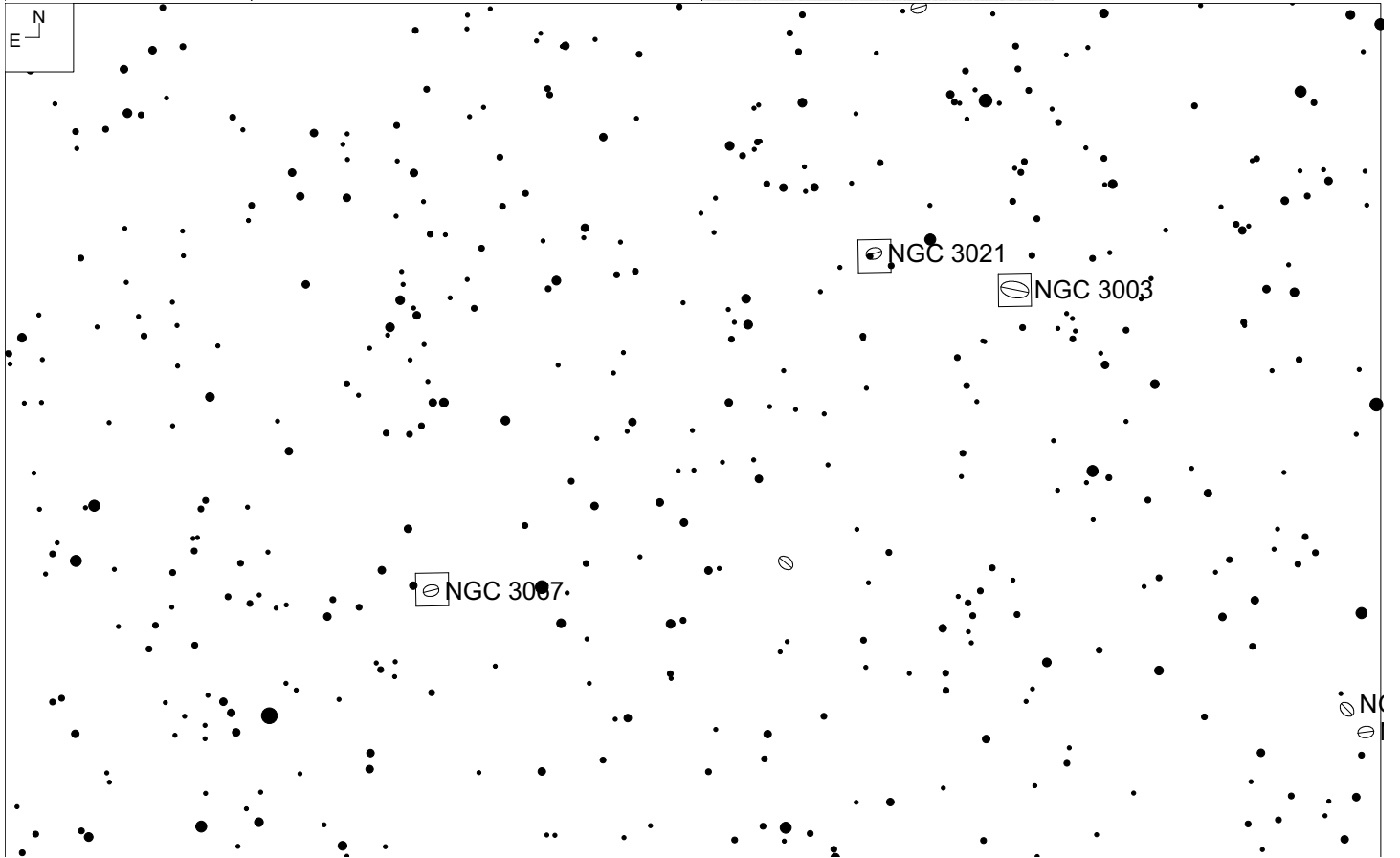
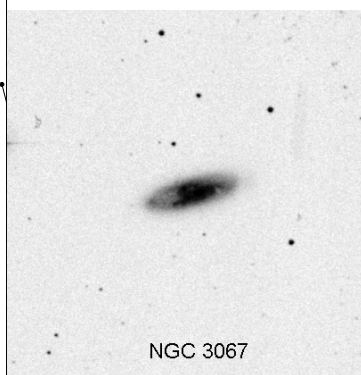
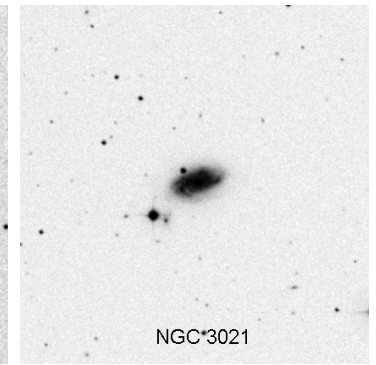
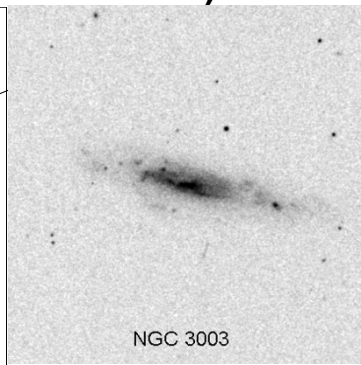
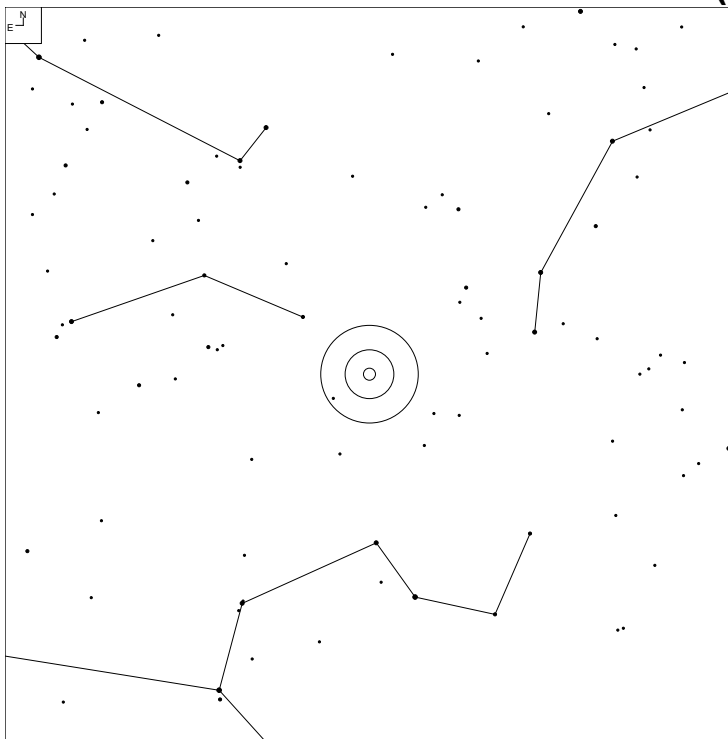
NGC 5351 (Canes Venatici)



Object	RA	Dec	Mag	Size
NGC 5351	13 53 28.1	+37 54 52	13.0b	2.9 x 1.5'
NGC 5349			14.9p	2.5 x 0.5'
NGC 5341			14.2p	1.6 x 0.6'

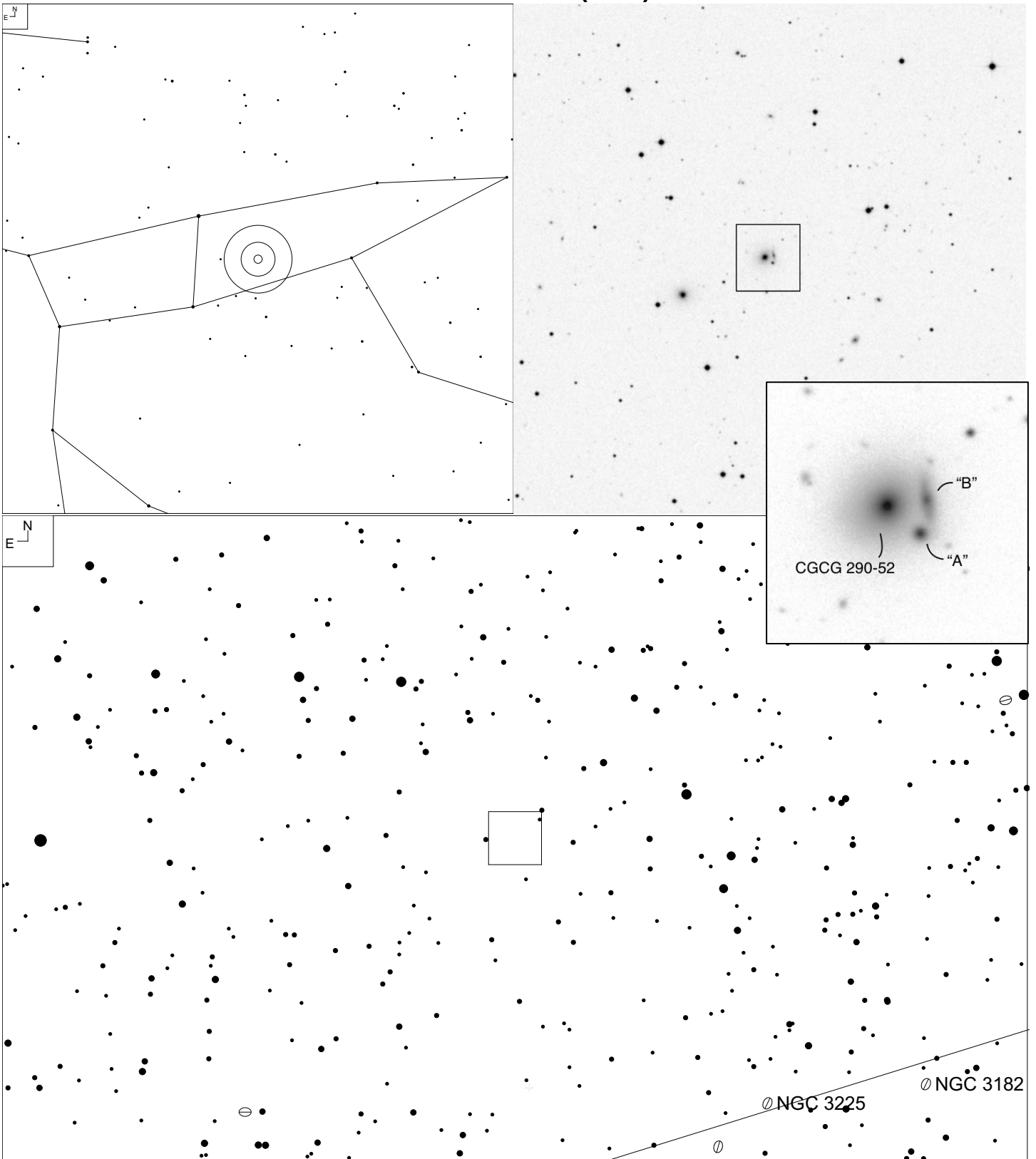
Miles Paul trio

NGC 3003 (Leo Minor)



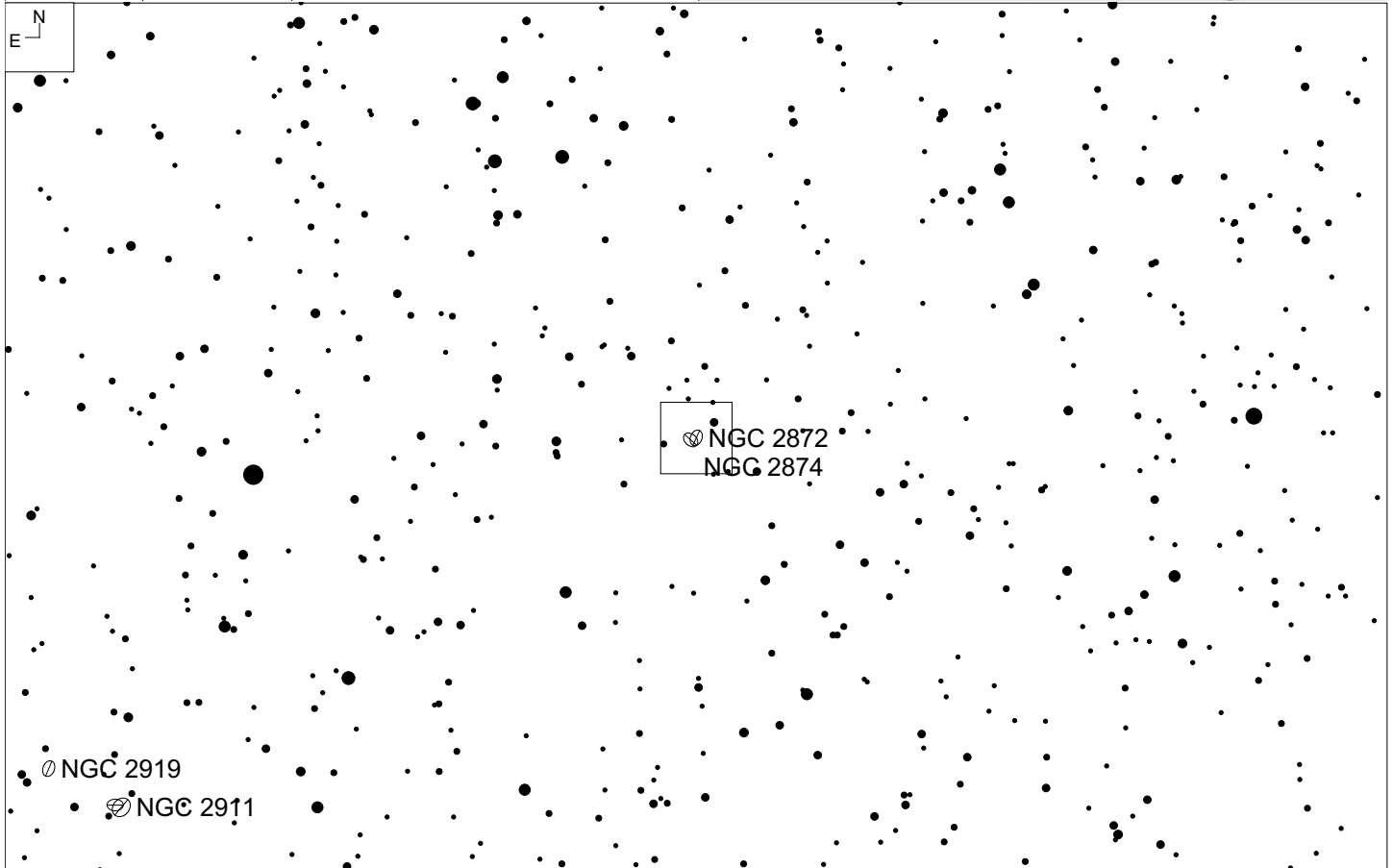
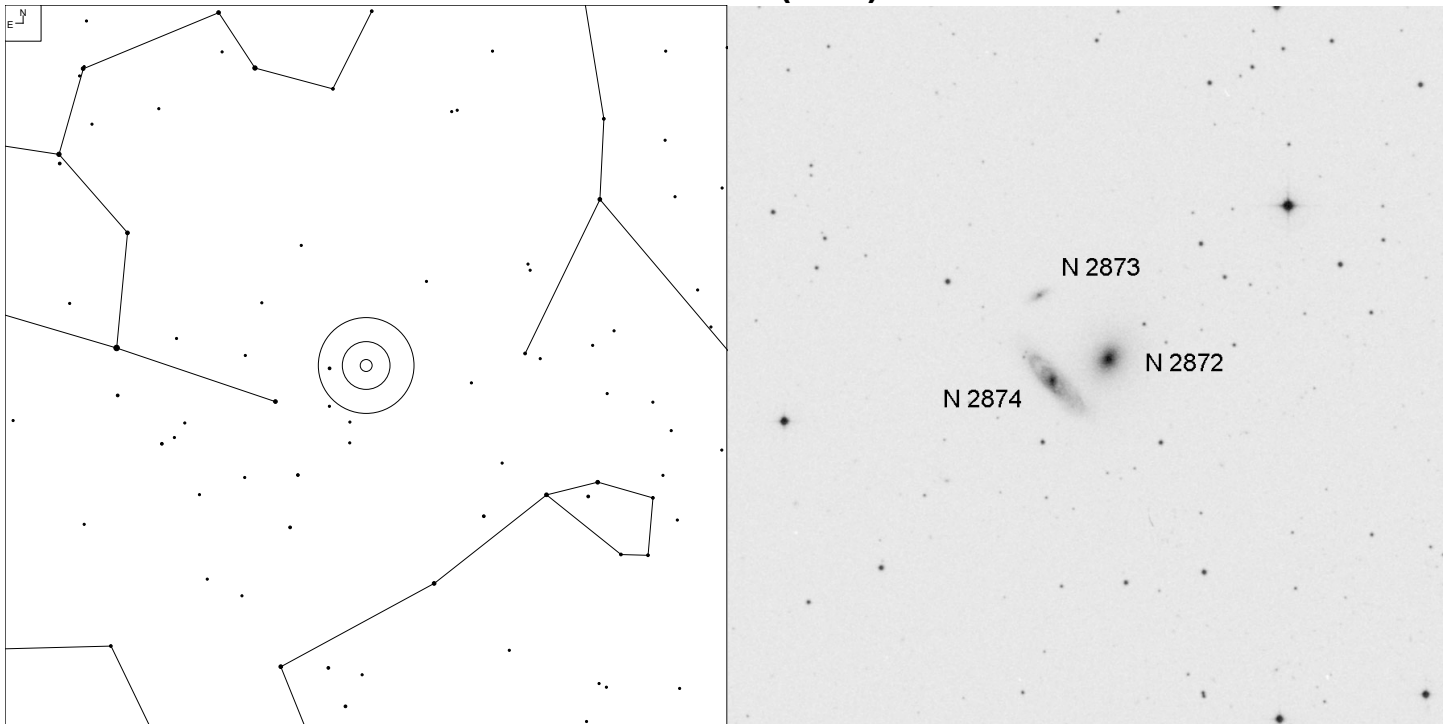
Object (KTG 26)	RA	Dec	Mag	Size
NGC 3003	09 54 01.1	+32 56 10	12.3b	5.9 x 1.3'
NGC 3021			12.9p	1.6 x 0.8'
NGC 3067			12.8b	2.4 x 0.9'

CGCG 290-52 (Leo)



Object	RA	Dec	Mag	Size
CGCG 290-52	10 34 04.7	+59 24 12	15.4	0.5'
A			16*	
B			17.5g*	

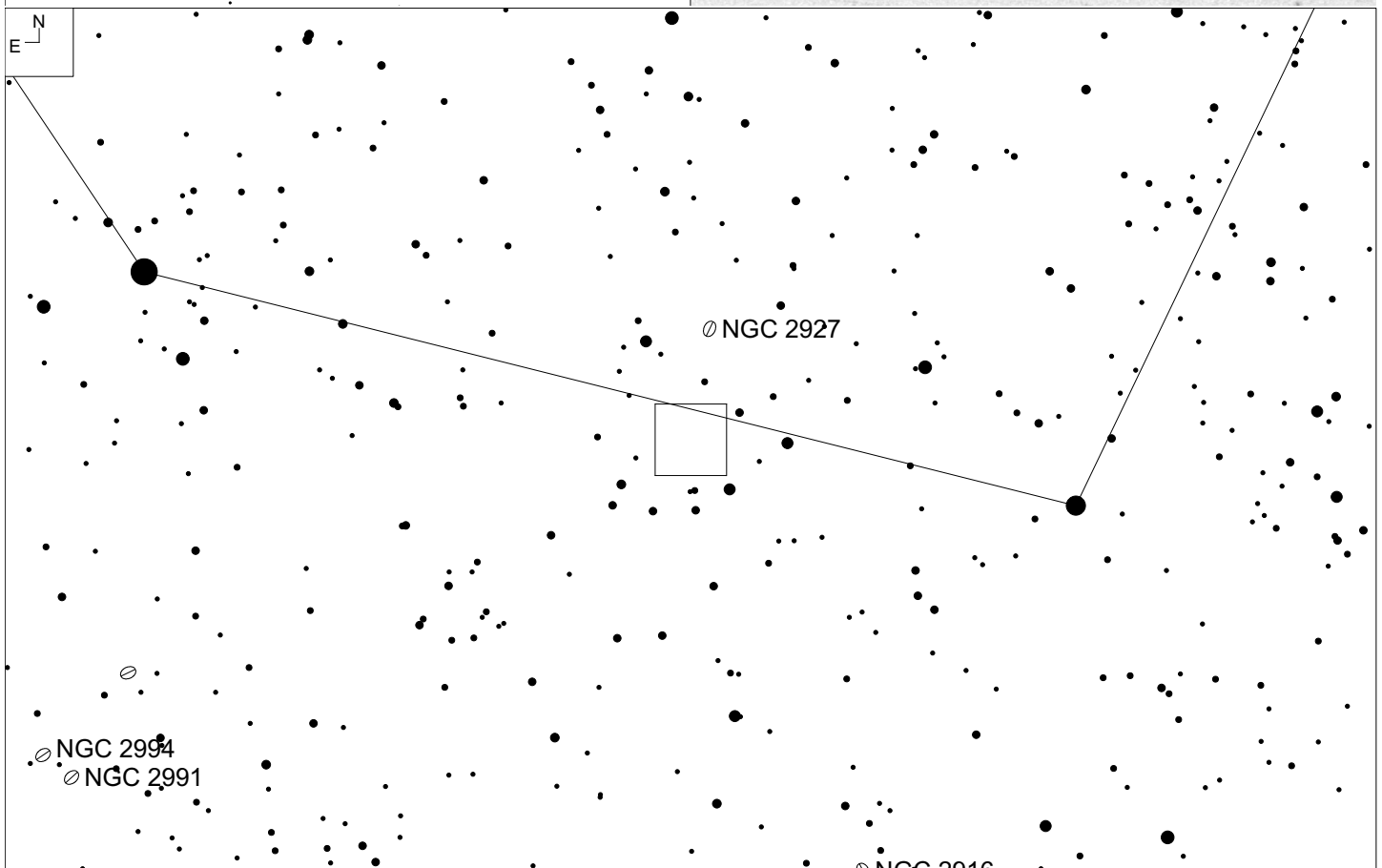
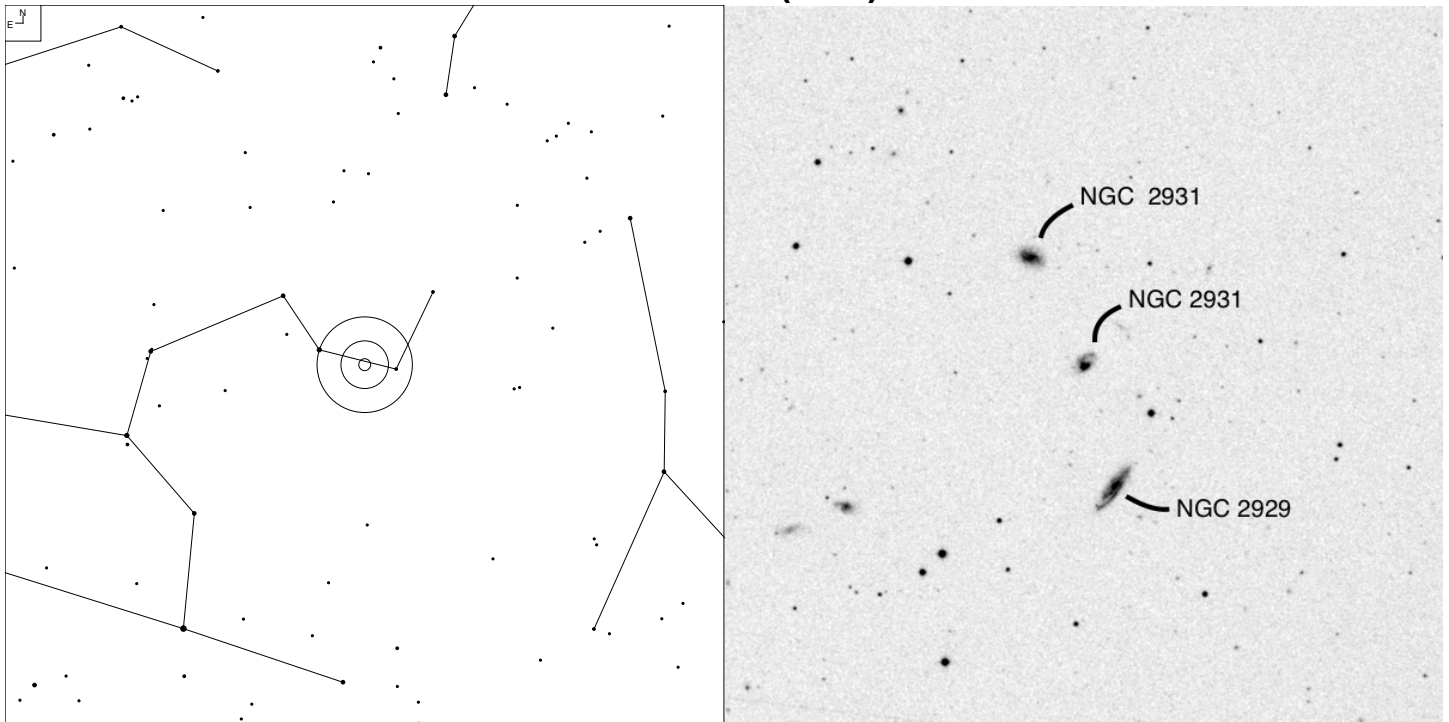
NGC 2872 (Leo)



Object	RA	Dec	Mag	Size
NGC 2872	09 25 42.6	+11 25 55	12.9b	1.6 x 1.4'
NGC 2873			16.8	0.8 x 0.3'
NGC 2874			13.4b	2.8 x 0.8'

Miles Paul and Astronomical League trio

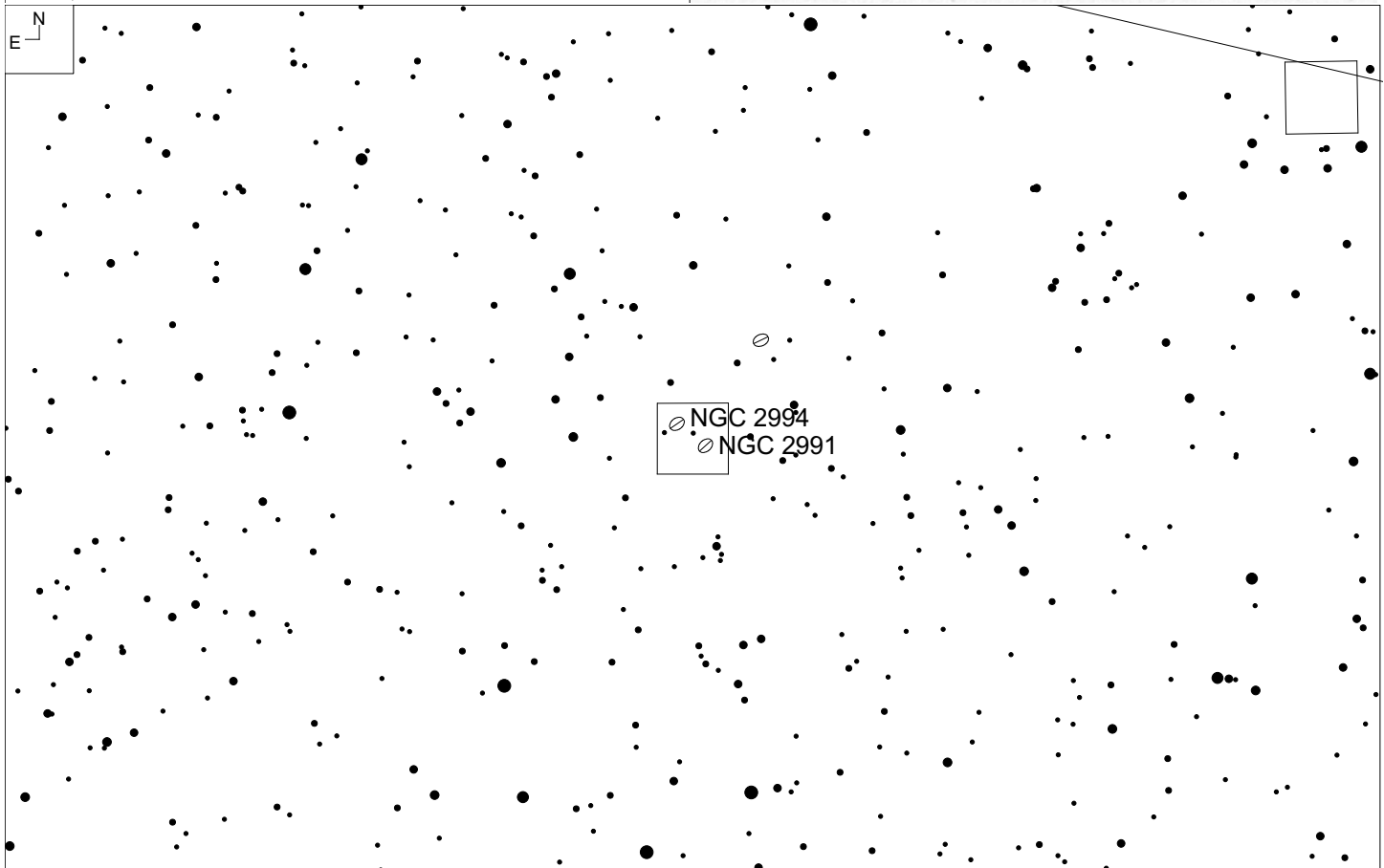
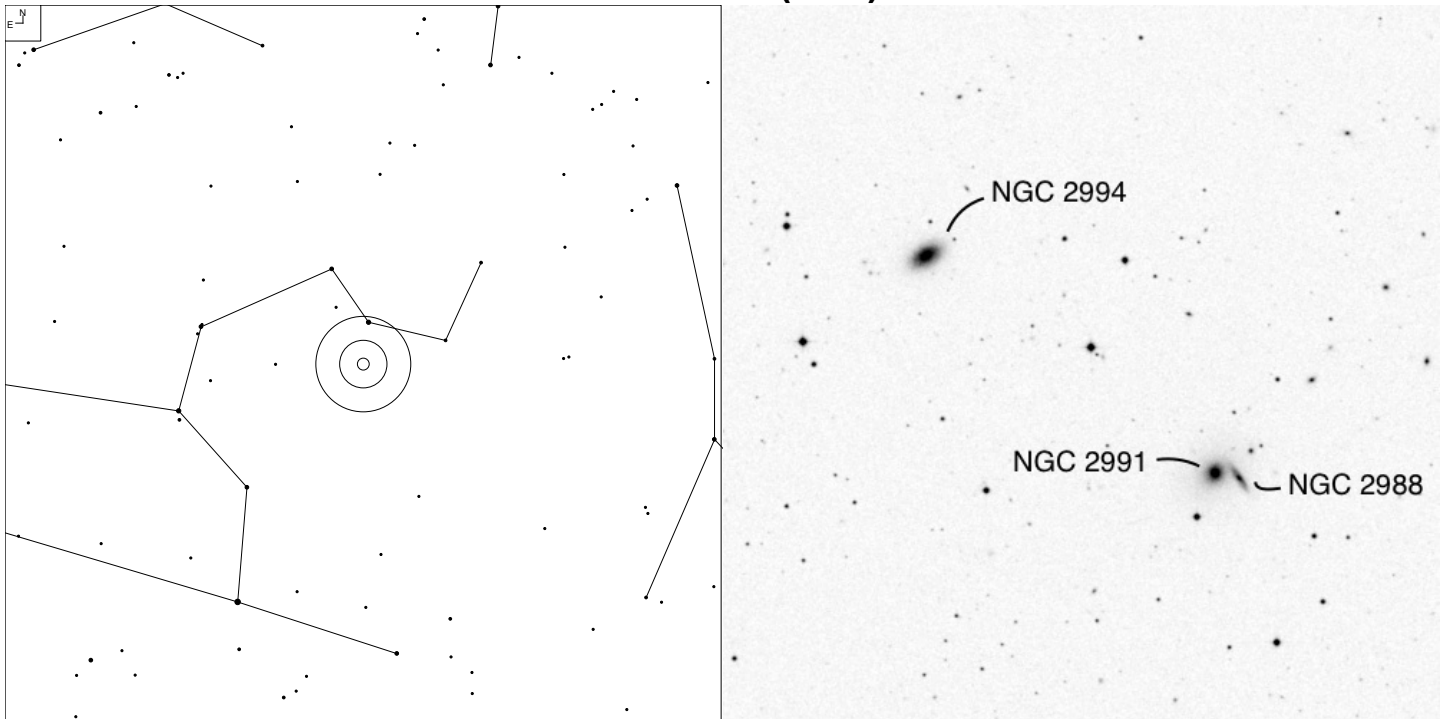
NGC 2929 (Leo)



Object	RA	Dec	Mag	Size
NGC 2929	09 37 29.7	+23 09 40	14.7p	1.4 x 0.3'
NGC 2930			15.1p	0.6 x 0.4'
NGC 2931			14.9	0.8 x 0.6'

Miles Paul and Astronomical League trio

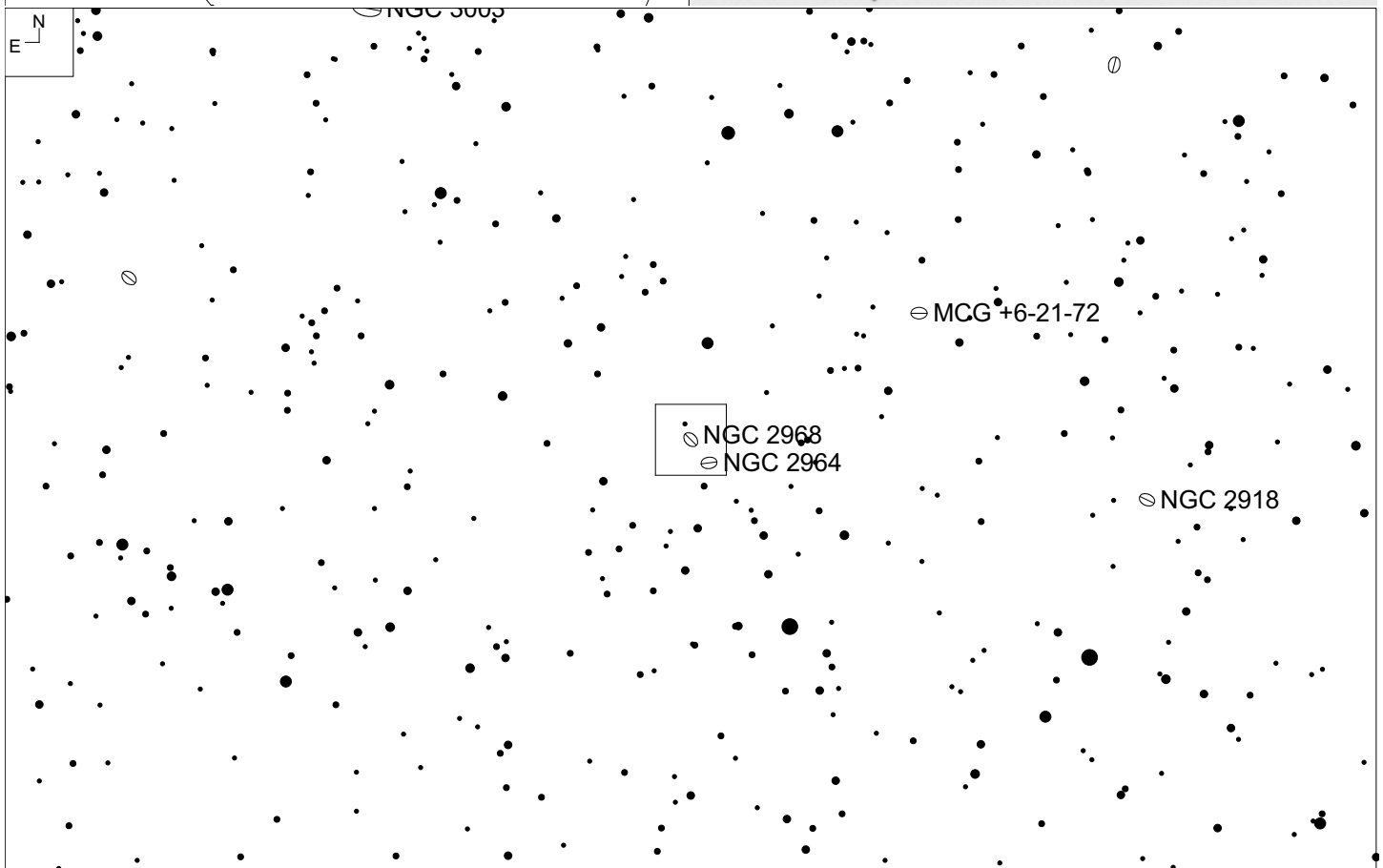
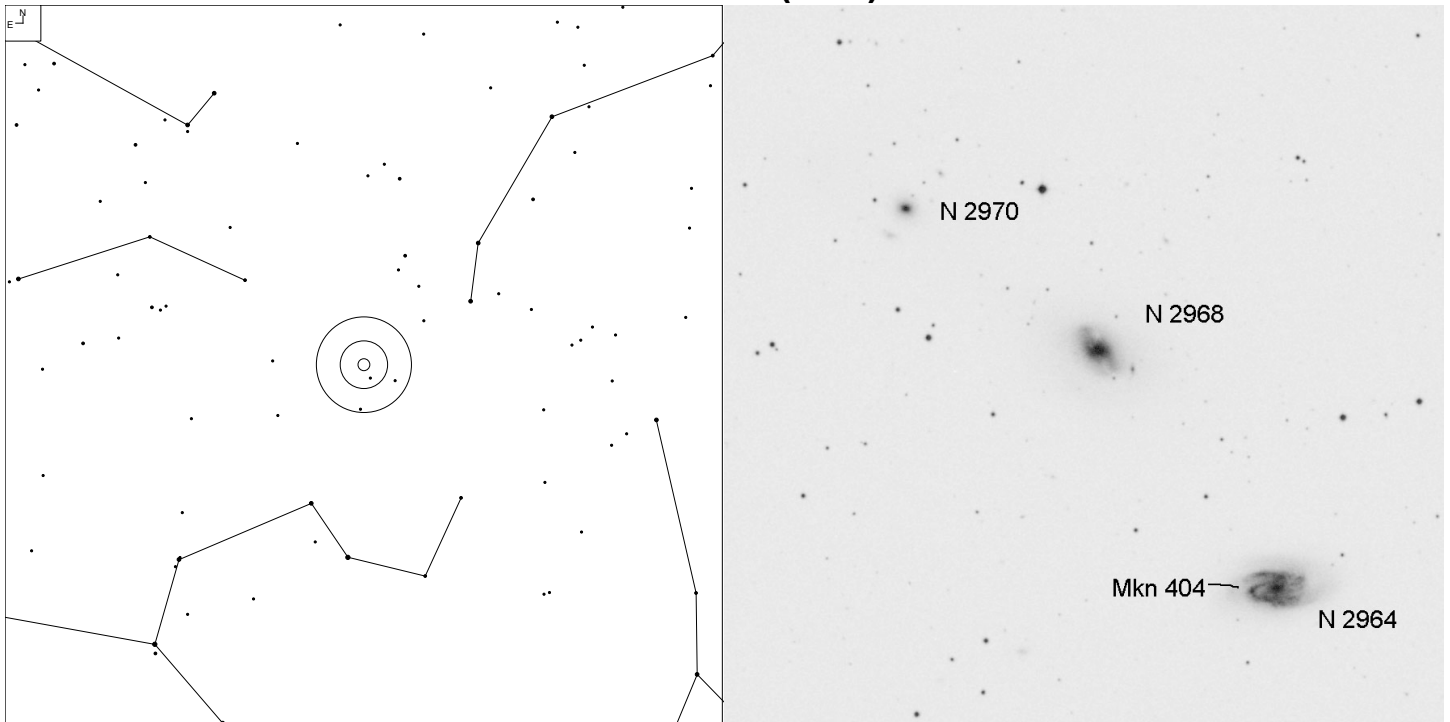
NGC 2991 (Leo)



Object	RA	Dec	Mag	Size
NGC 2991	09 46 50.1	+22 00 50	13.5b	1.4 x 1.1'
NGC 2988			15.8	0.9 x 0.2'
NGC 2994			14.0b	1.3 x 0.9'

Miles Paul and Astronomical League trio

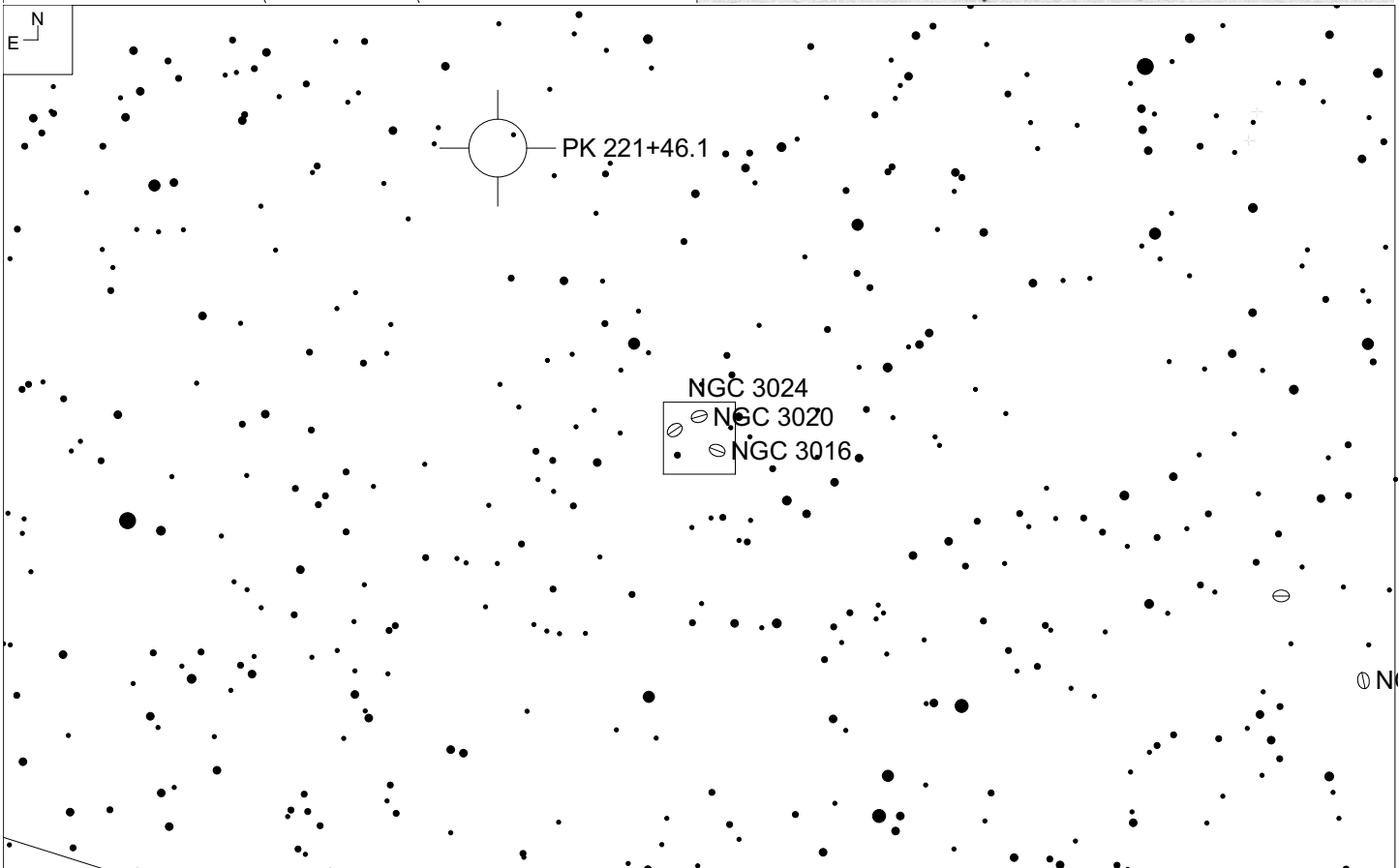
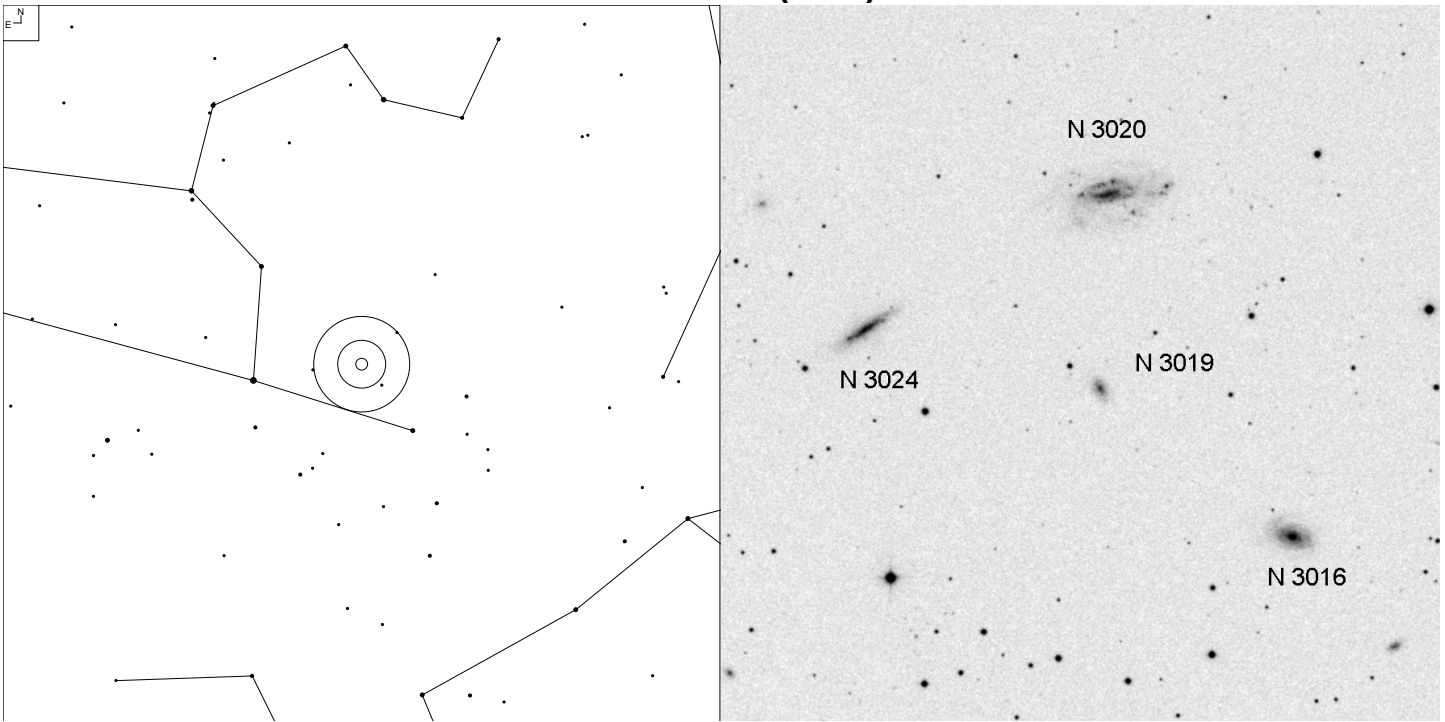
NGC 2964 (Leo)



Object (KTG 25)	RA	Dec	Mag	Size
NGC 2964	09 42 53.9	+31 50 50	12.0b	2.9 x 1.5'
NGC 2968			12.8b	2.2 x 1.5'
NGC 2970			14.4b	0.6 x 0.4'

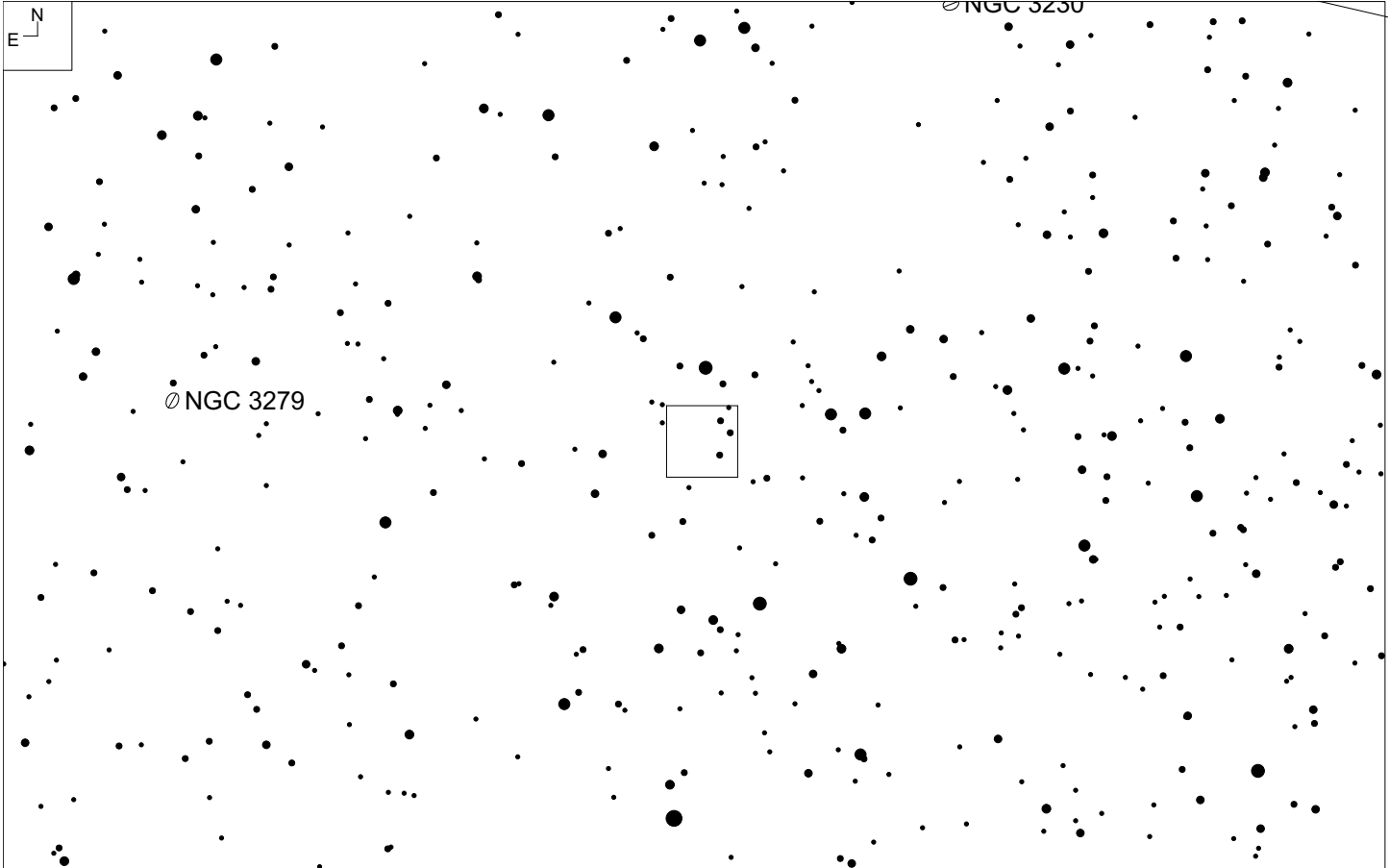
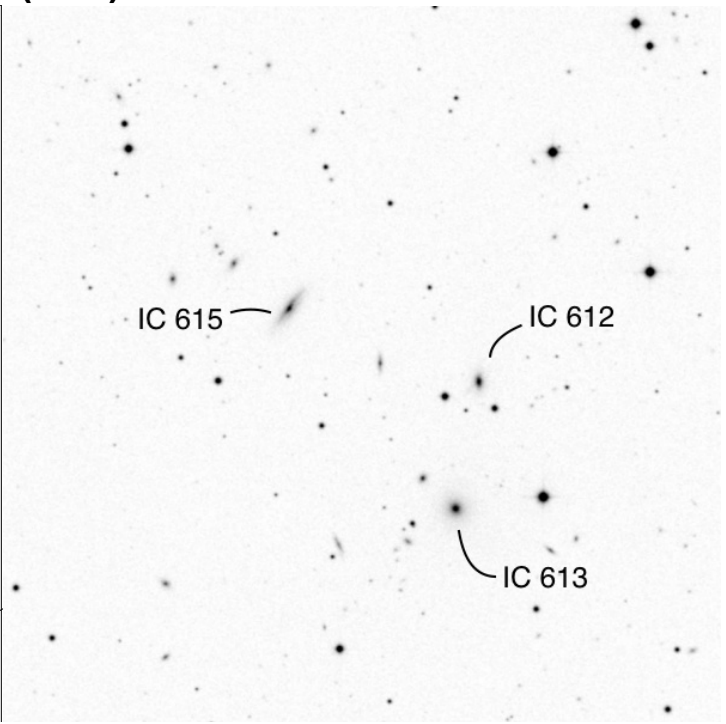
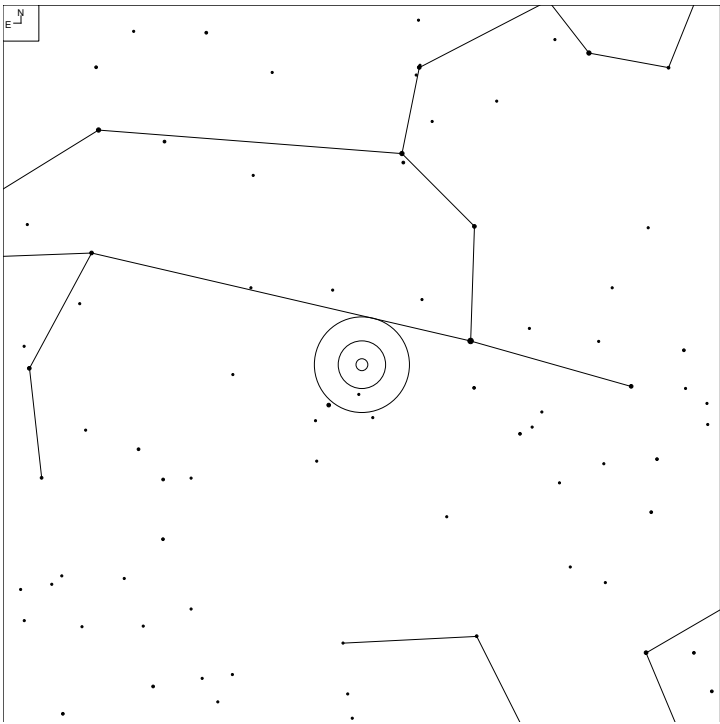
Miles Paul trio

NGC 3016 (Leo)



Object (KTG 27)	RA	Dec	Mag	Size
NGC 3016	09 50 08.9	+12 45 16	13.8	1.2 x 0.8'
NGC 3020			12.6	3.1 x 1.5'
NGC 3024			13.8	2.1 x 0.4'

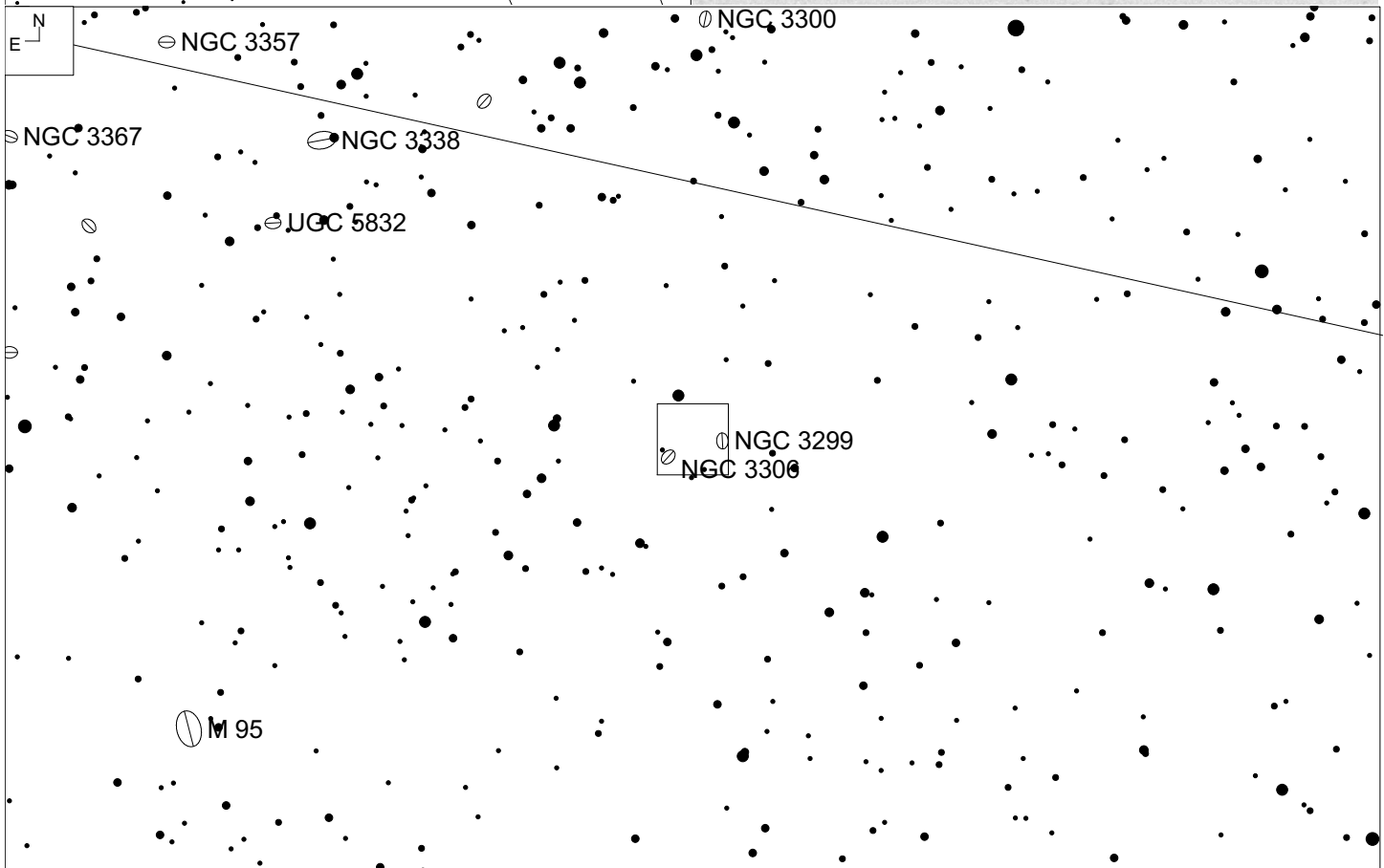
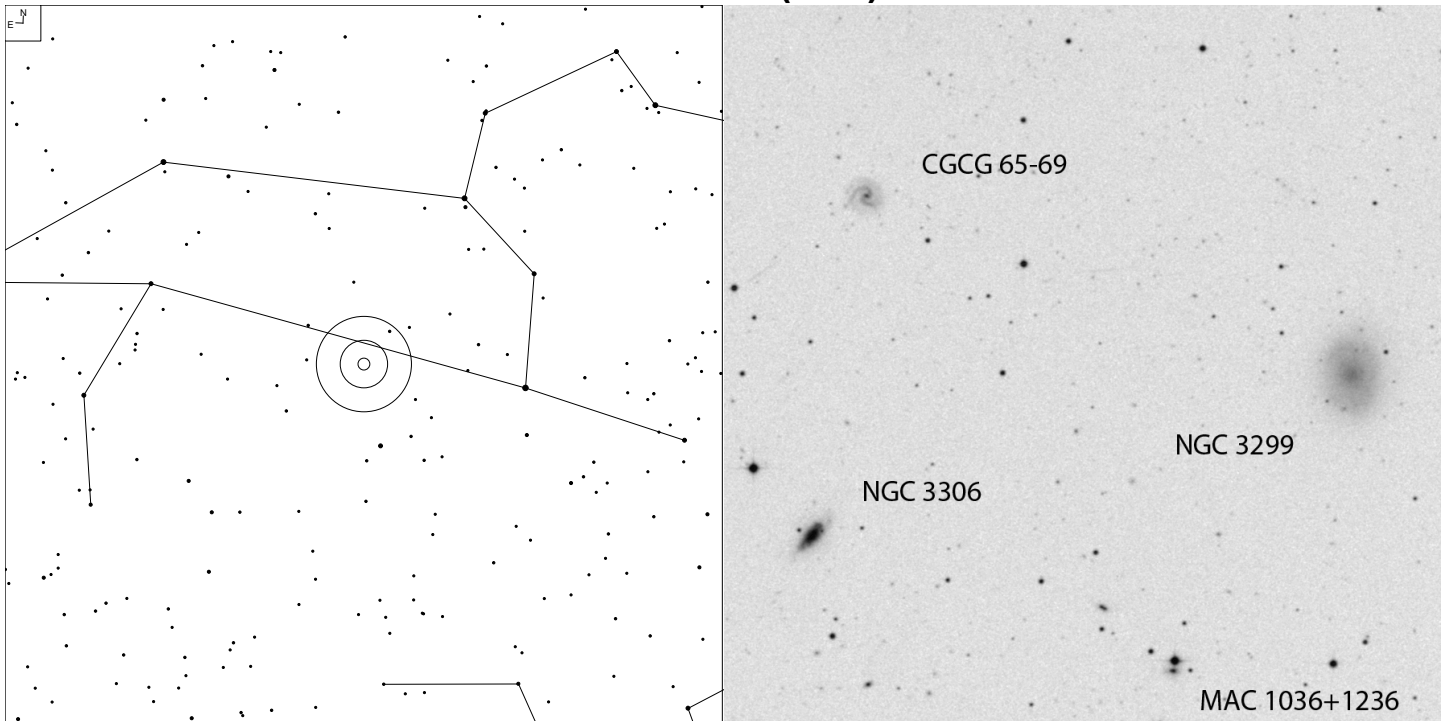
IC 613 (Leo)



Object	RA	Dec	Mag	Size
IC 613	10 27 07.8	+11 00 38	14.8	1.1 x 1.1'
IC 612			15.4	0.7 x 0.4'
IC 615			15.1	1.6 x 0.5'

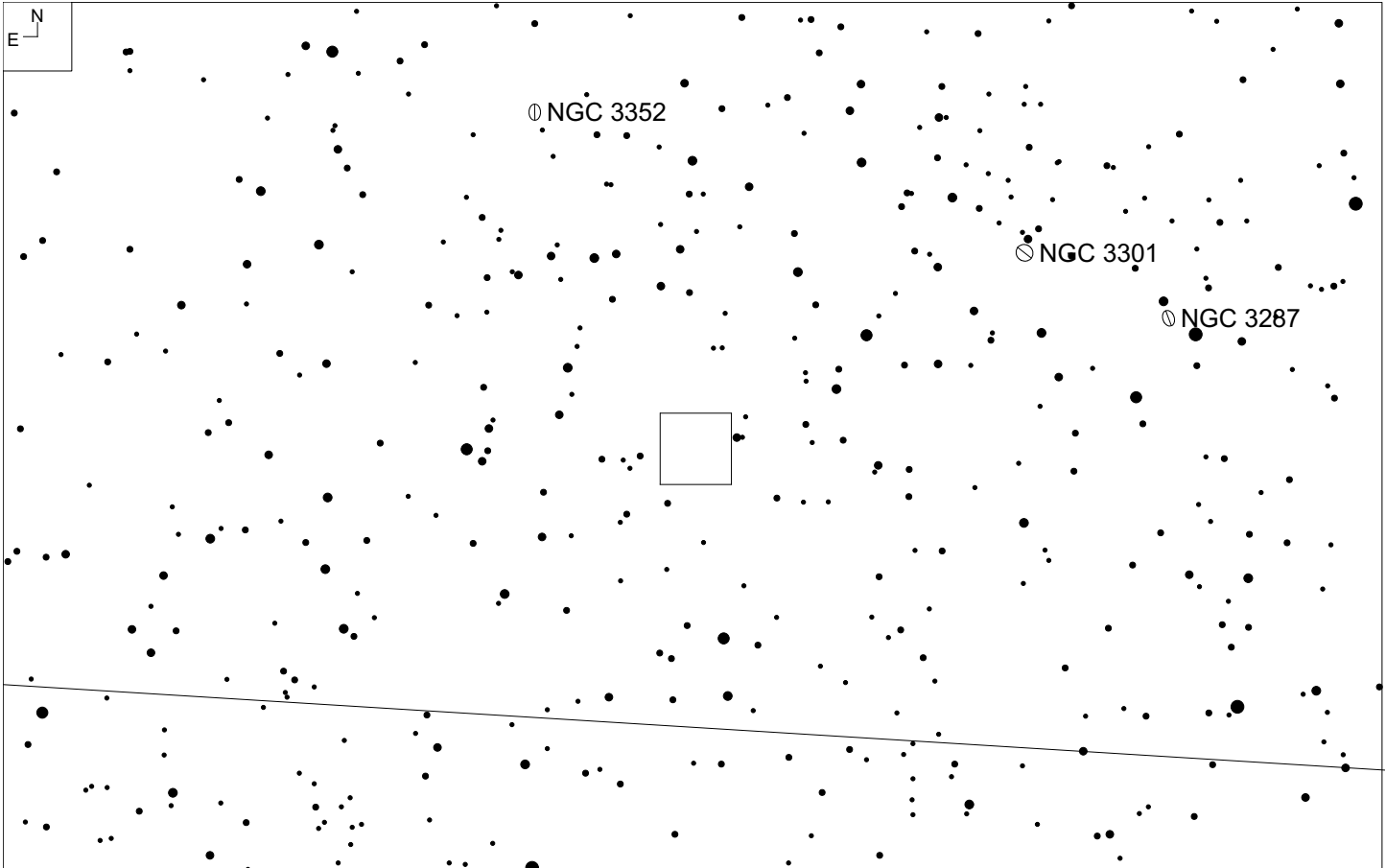
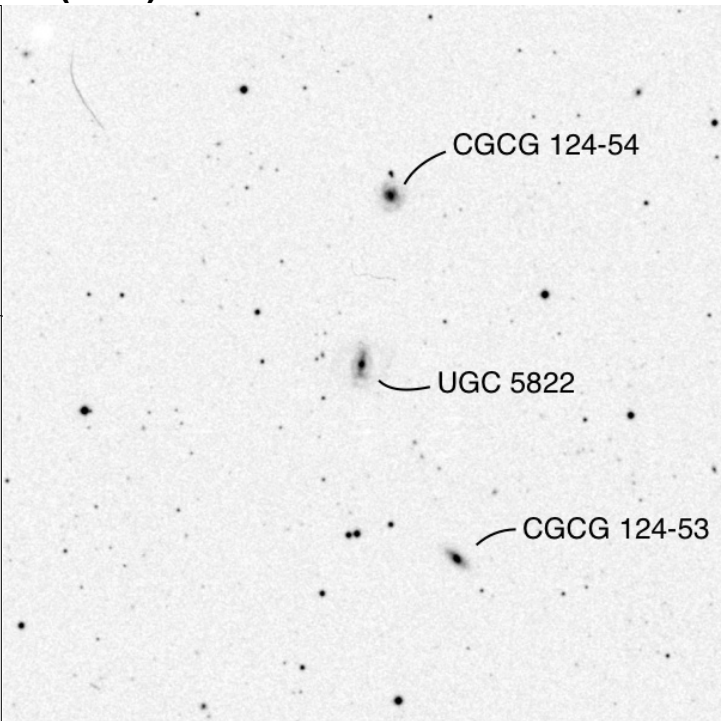
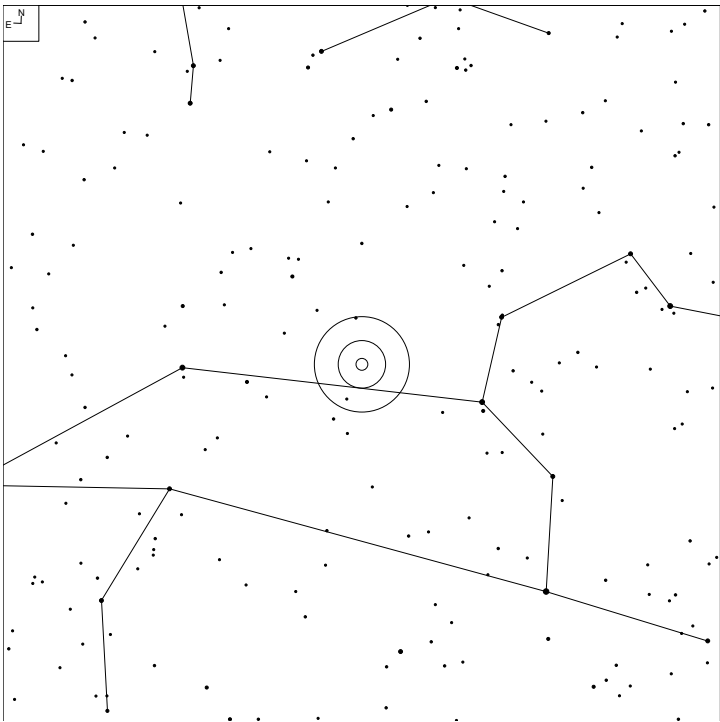
Miles Paul trio

NGC 3299 (Leo)



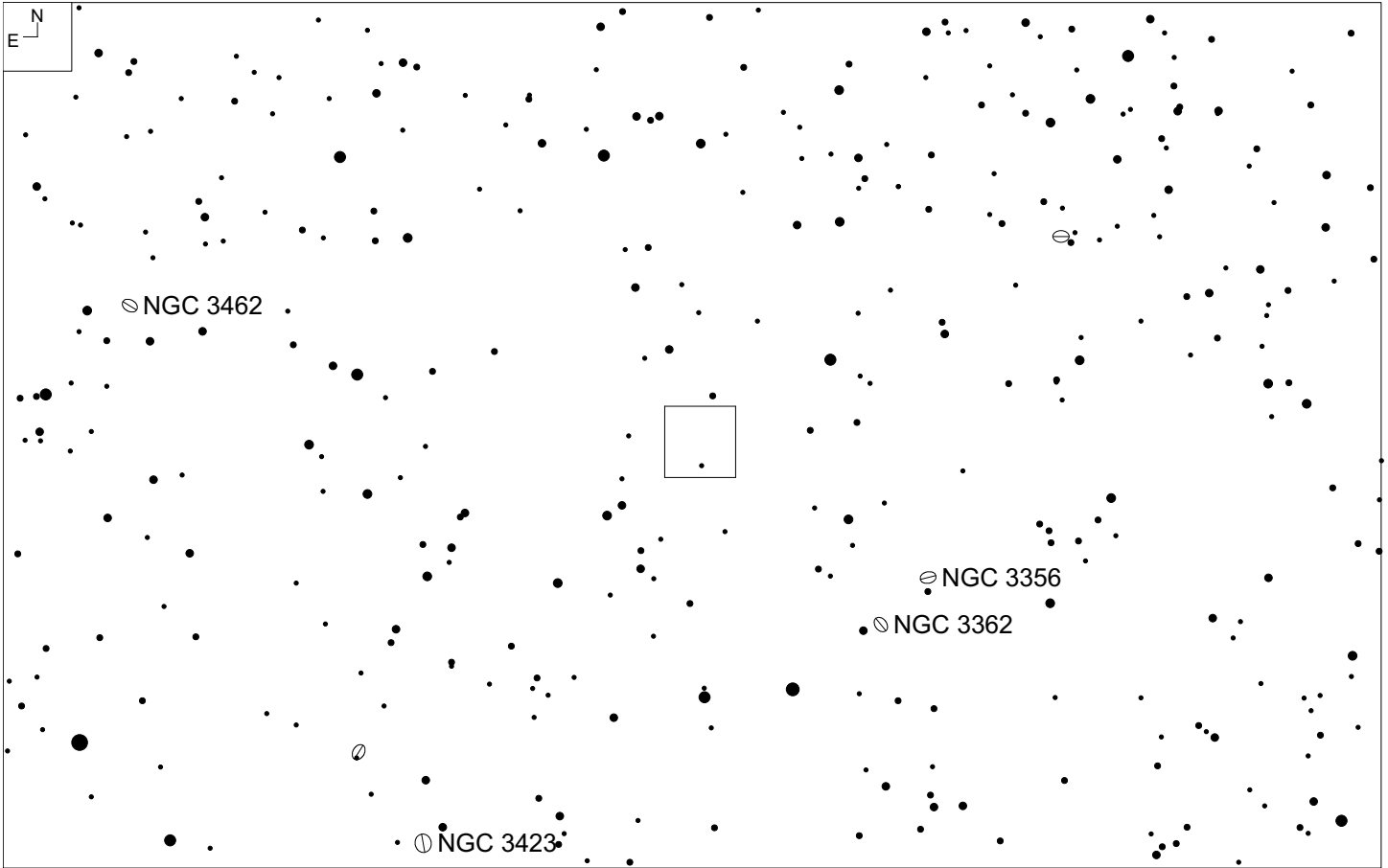
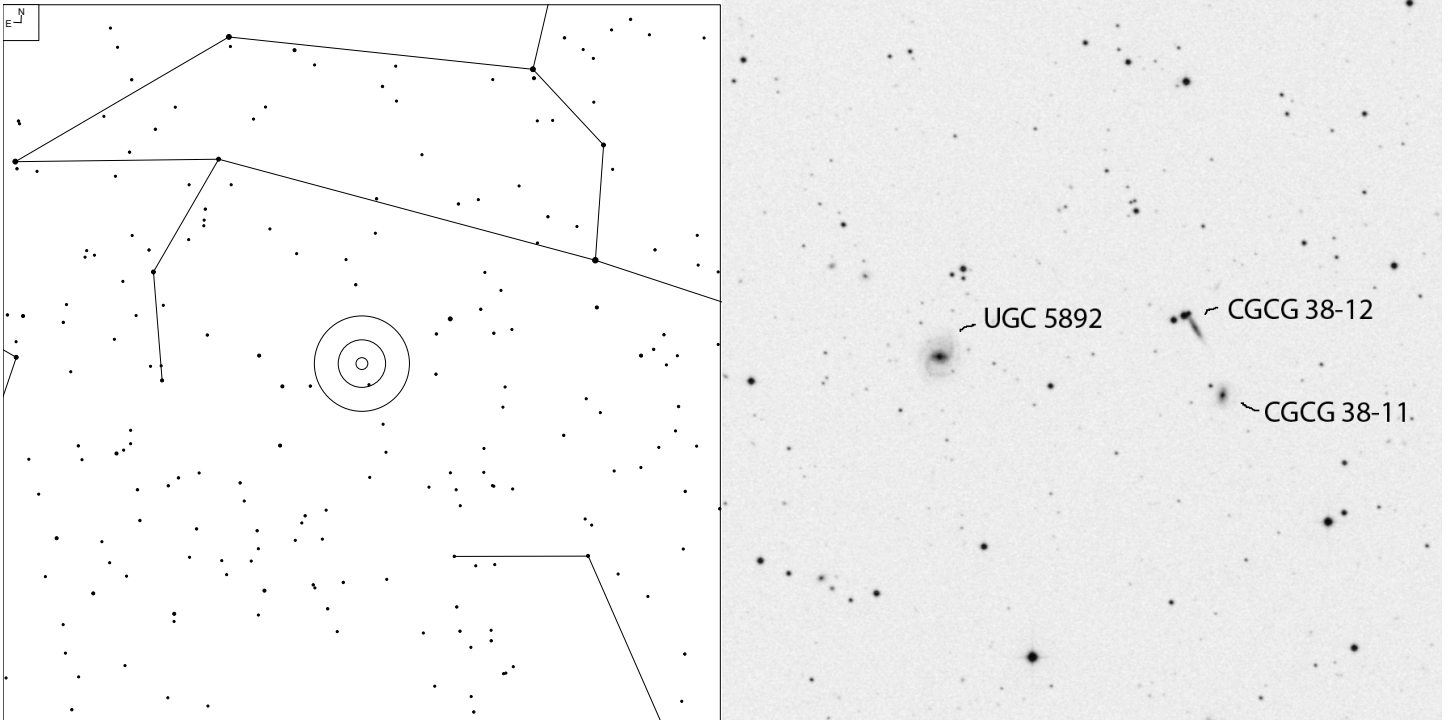
Object (KTG 30)	RA	Dec	Mag	Size
NGC 3299	10 36 23.9	+12 42 27	13.3p	2.1 x 1.5'
NGC 3306			14.0p	1.3 x 0.4'
CGCG 65-69			14.9	1.1 x 0.9'

UGC 5822 (Leo)



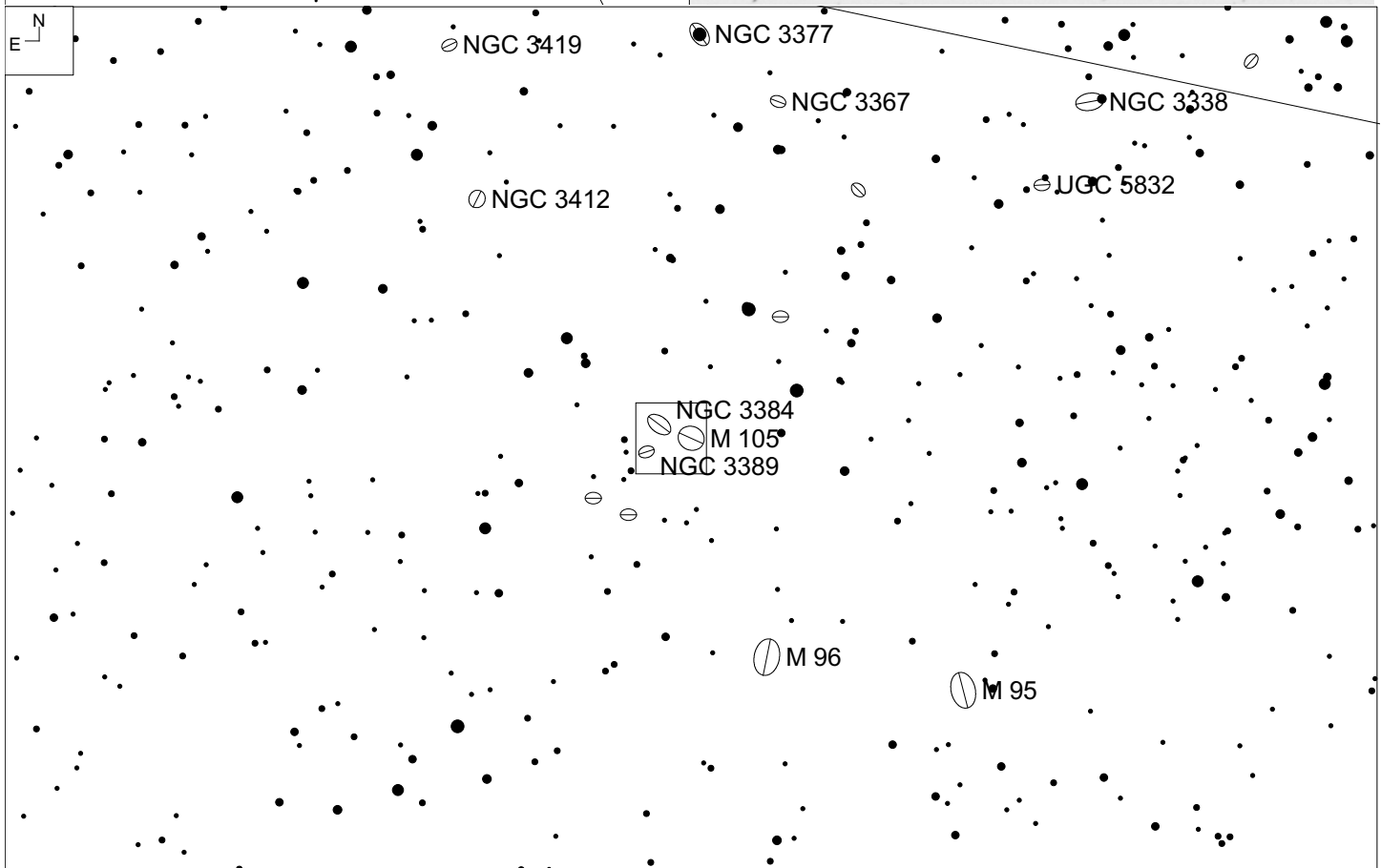
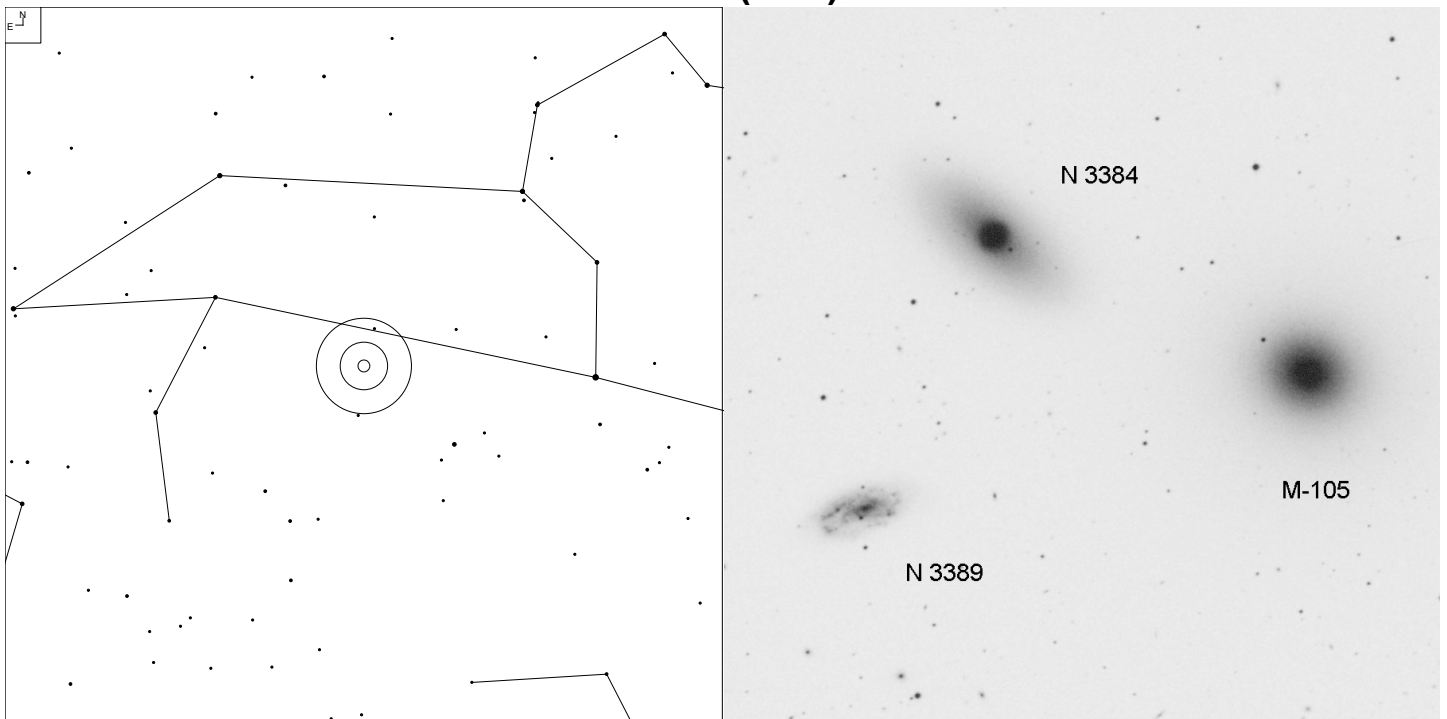
Object (KTG 31)	RA	Dec	Mag	Size
UGC 5822	10 41 52.8	+21 15 08	14.7p	1.1 x 0.9'
CGCG 124-53			15.6	1.0 x 0.3'
CGCG 124-54			14.9p	0.7 x 0.5'

UGC 5892 (Leo)



Object (KTG 32)	RA	Dec	Mag	Size
UGC 5892	10 47 29.6	+07 15 02	14.3p	1.0 x 0.7'
CGCG 38-11			15.7	0.5 x 0.1'
CGCG 38-12			15.6	0.6 x 0.1'

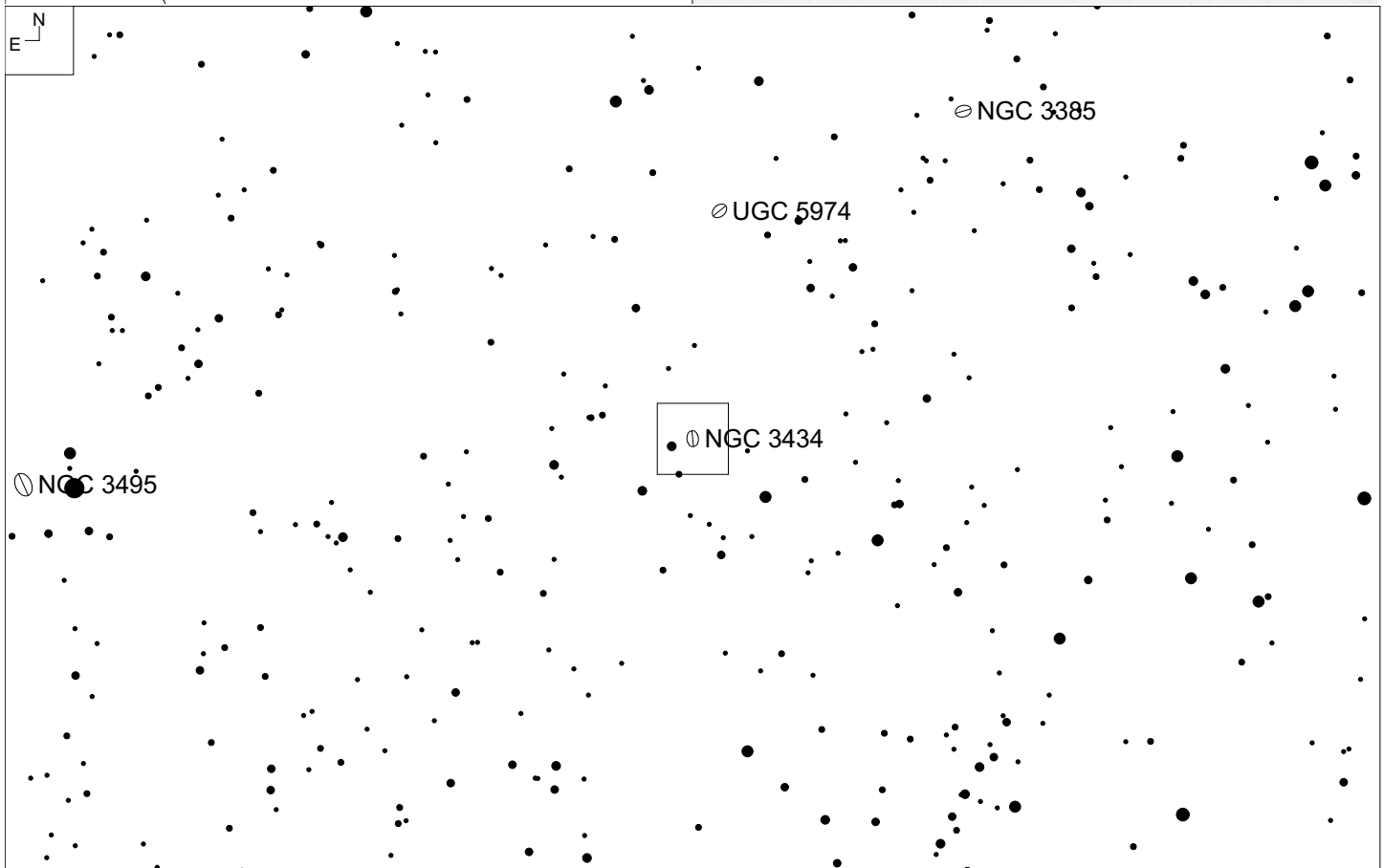
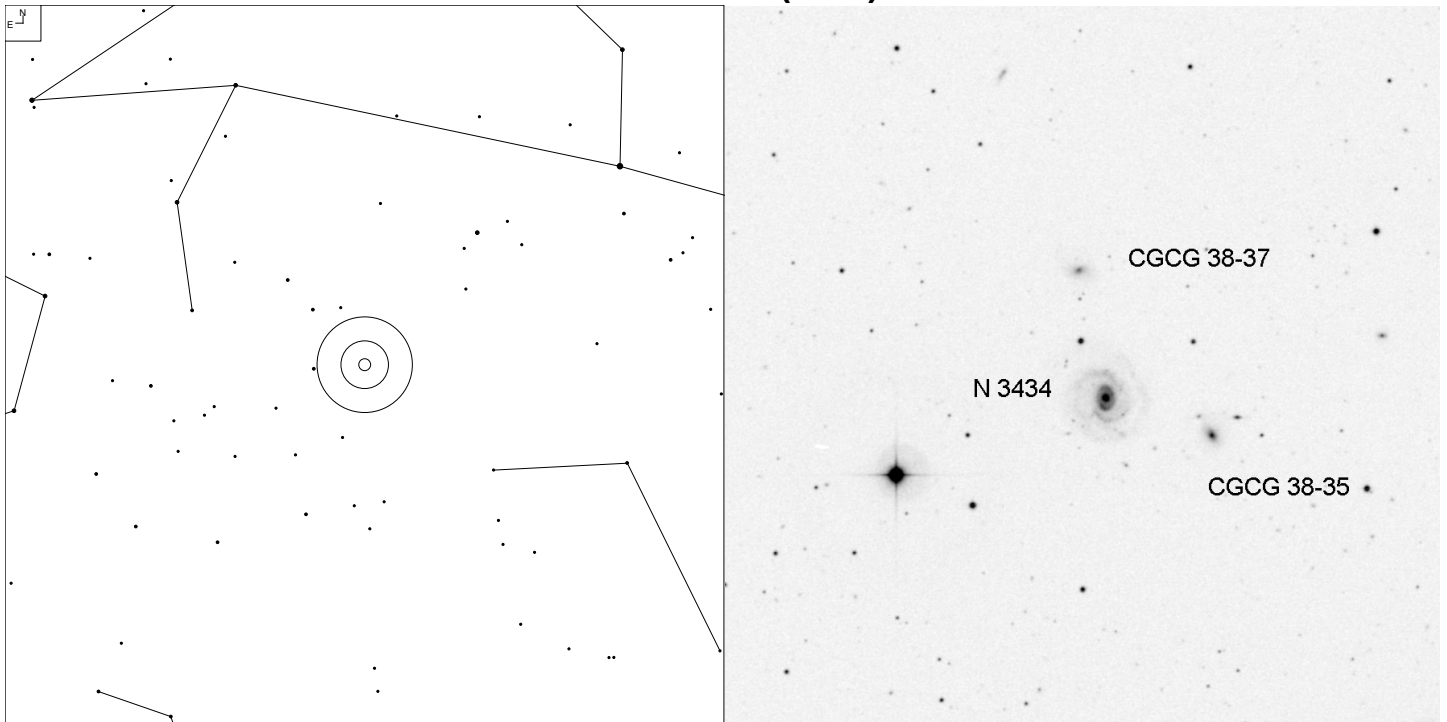
M-105 (Leo)



Object (KTG 33)	RA	Dec	Mag	Size
M105	10 47 49.6	+12 34 55	10.2b	5.4 x 4.8'
NGC 3384			10.9b	5.5 x 2.5'
NGC 3389			12.4b	2.7 x 1.3'

Miles Paul and Astronomical League trio

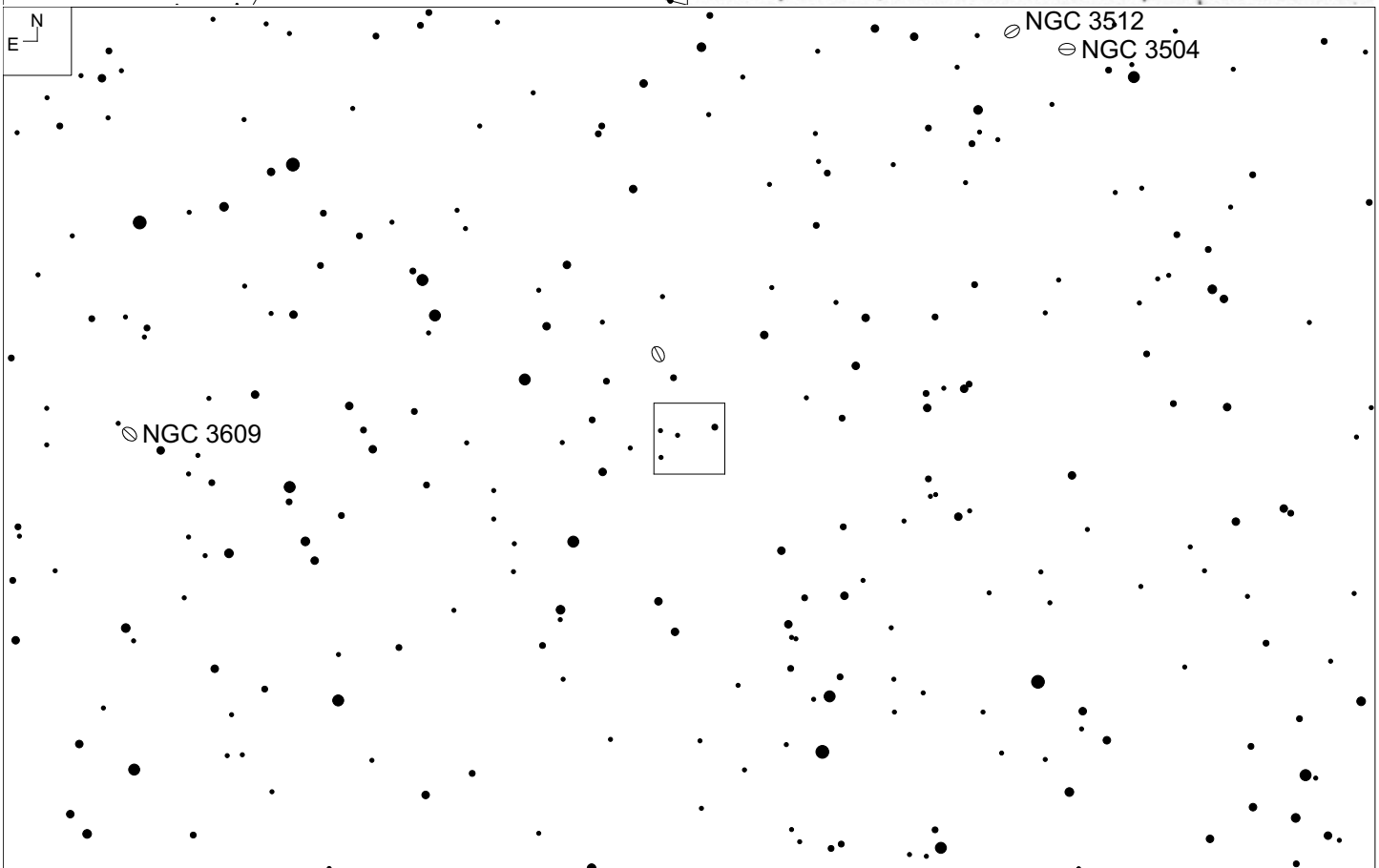
NGC 3434 (Leo)



Object	RA	Dec	Mag	Size
NGC 3434	10 51 57.9	+03 47 34	12.9p	2.1 x 1.8'
CGCG 38-37			15.6	0.5 x 0.4'
CGCG 38-35			15.6	0.7 x 0.5'

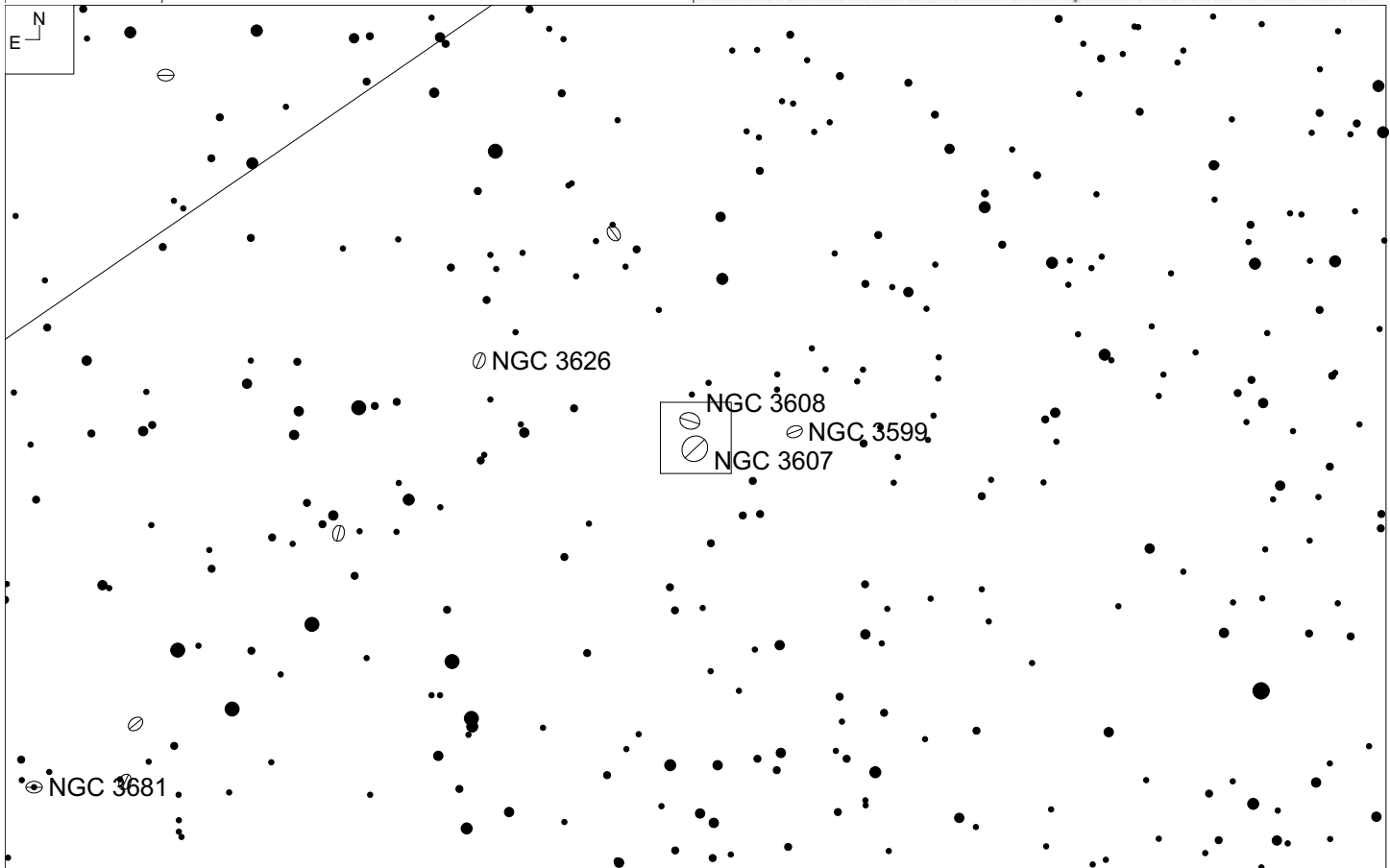
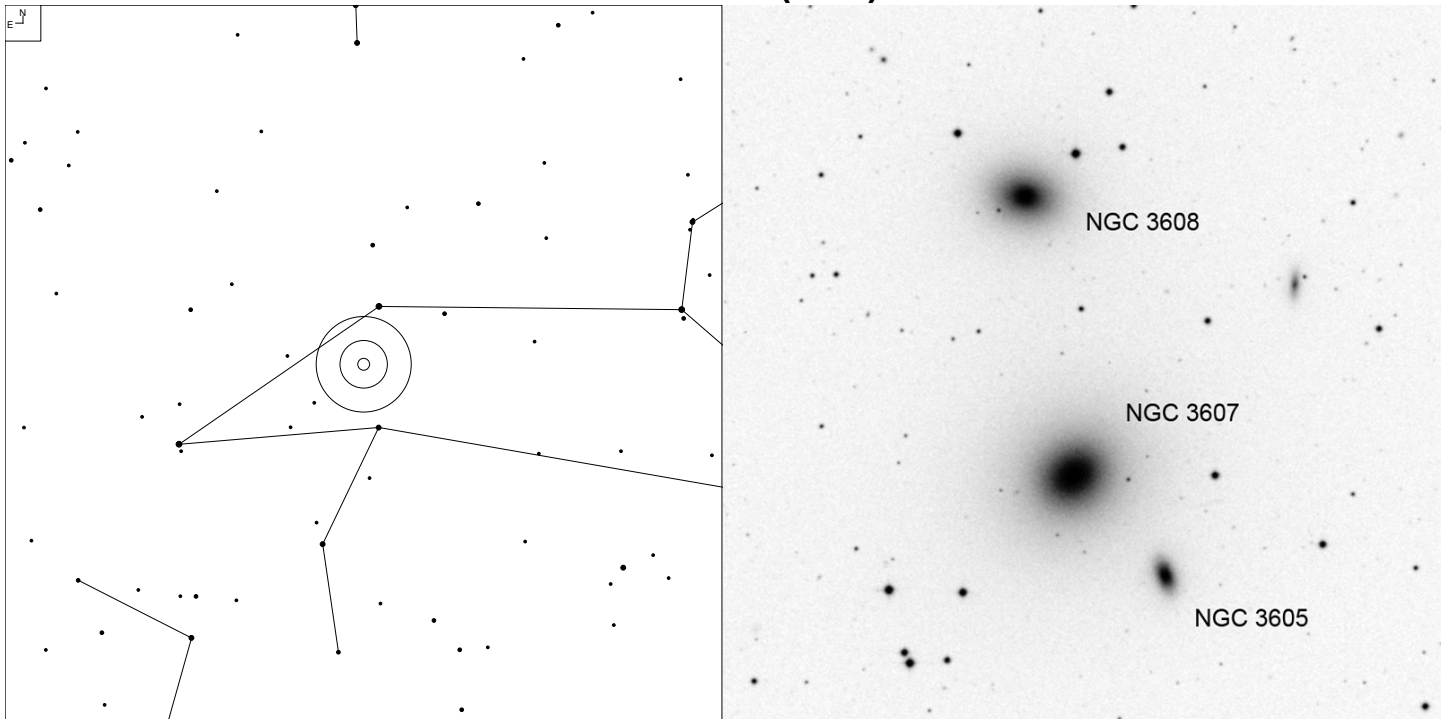
Miles Paul trio

NGC 3534 (Leo)



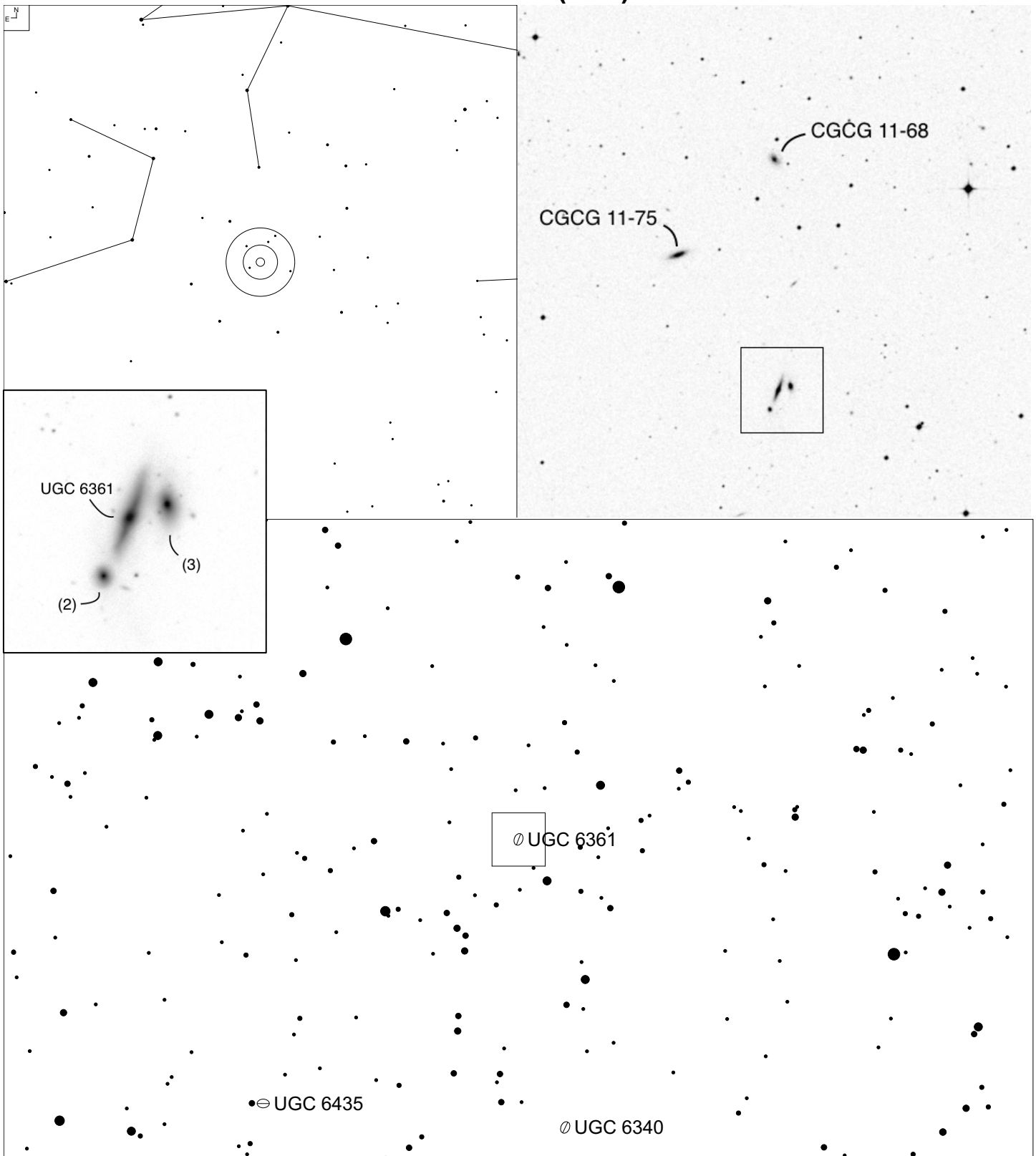
Object (KTG 35)	RA	Dec	Mag	Size
NGC 3534	11 08 57.1	+26 35 51	14.2	1.1 x 0.4'
UGC 6190			14.2	1.1 x 0.4'
CGCG 155-76			15.1	1.0 x 0.5'

NGC 3607 (Leo)



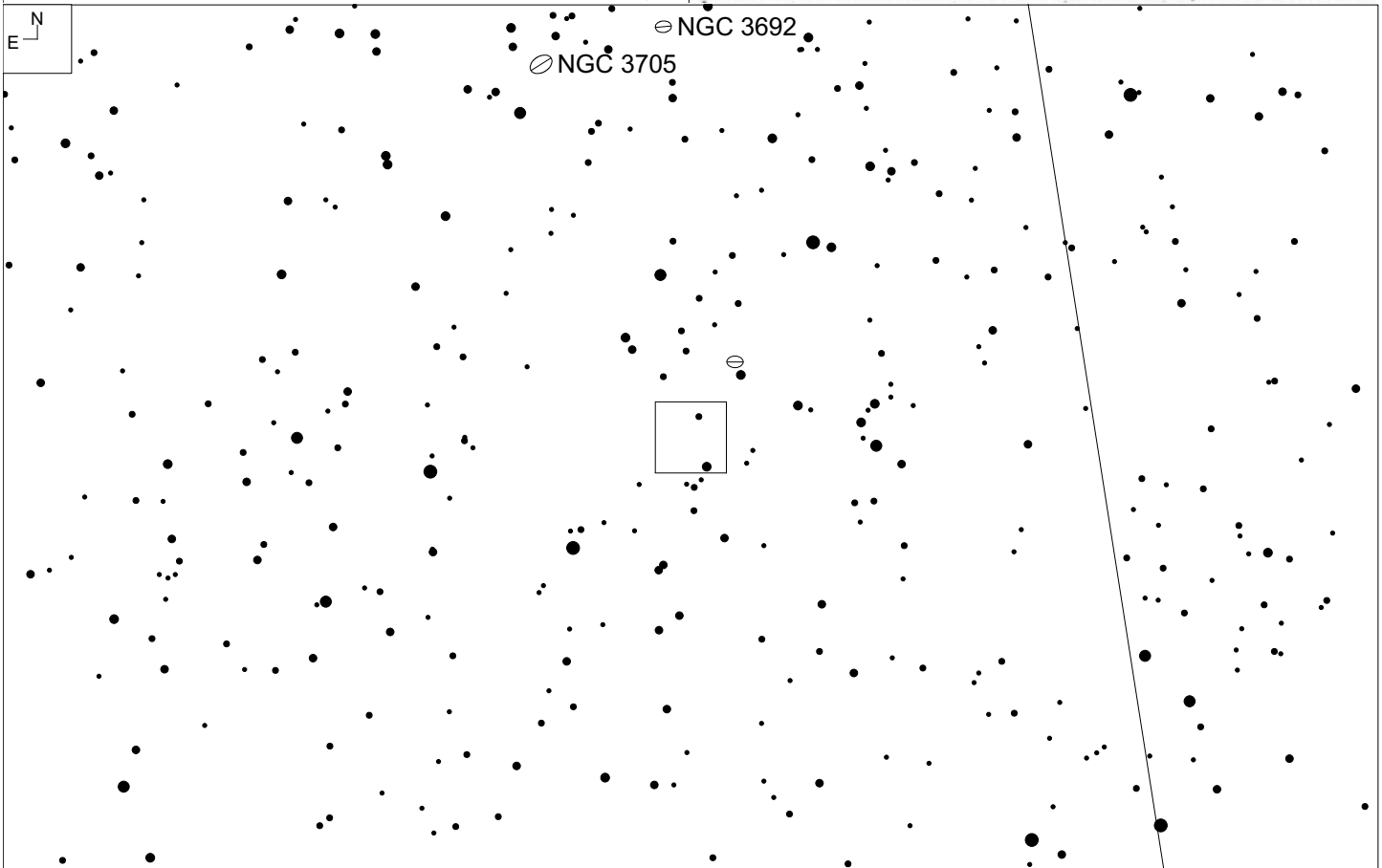
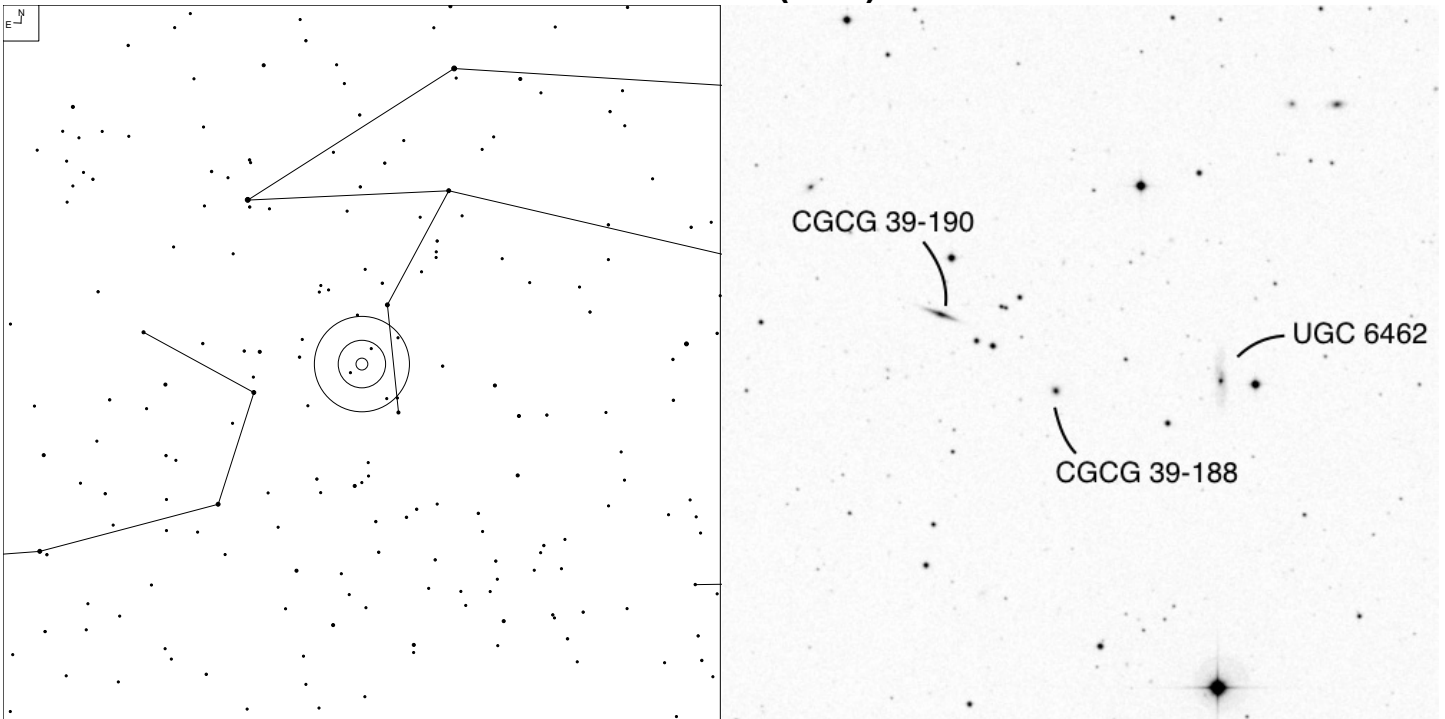
Object	RA	Dec	Mag	Size
NGC 3607	11 16 53.9	+18 05 25	9.9v	5.5 x 5.0'
NGC 3605			12.3v	1.6 x 1.2'
NGC 3608			10.7v	4.2 x 3.0'

UGC 6361 (Leo)



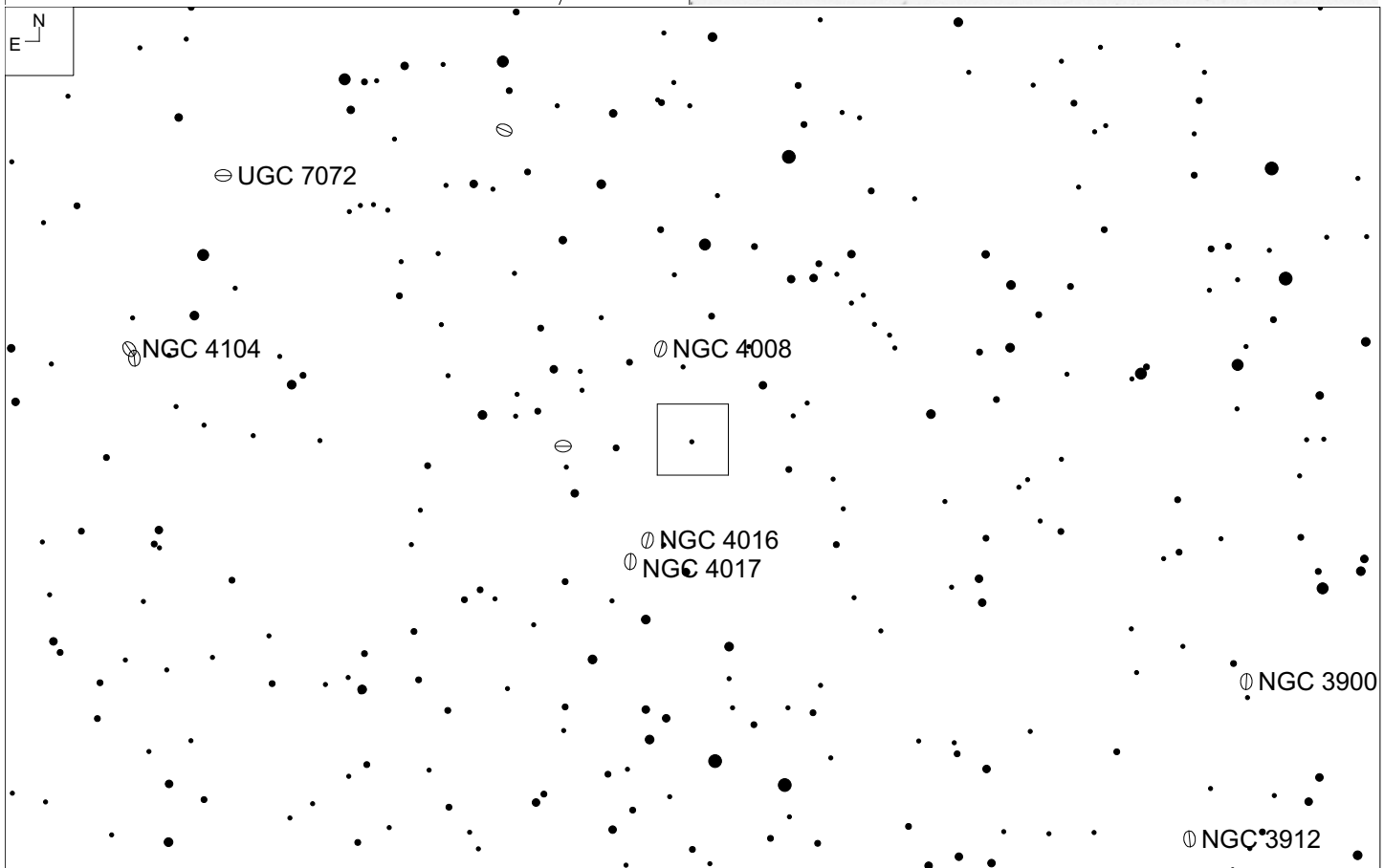
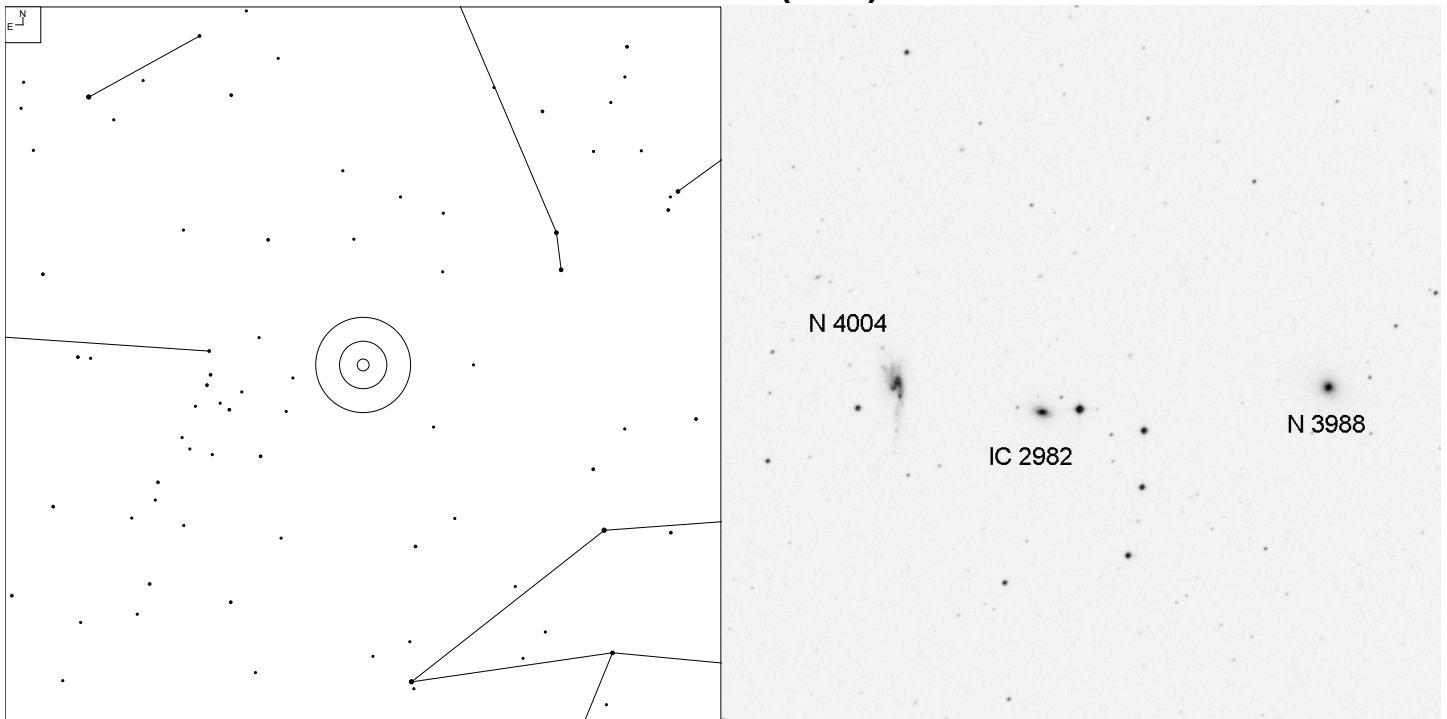
Object (KTG 36)	RA	Dec	Mag	Size
UGC 6361	11 20 49.0	+00 31 51	13.9	1.2 x 0.4'
CGCG 11-68			14.9	0.7 x 0.3'
CGCG 11-75			15.2	0.4 x 0.3'

UGC 6462 (Leo)



Object (KTG 37)	RA	Dec	Mag	Size
UGC 6462	11 27 47.4	+07 59 17	15.0p	1.5 x 0.2'
CGCG 39-188			16.0	0.2 x 0.2'
CGCG 38-190			15.6	0.8 x 0.1'

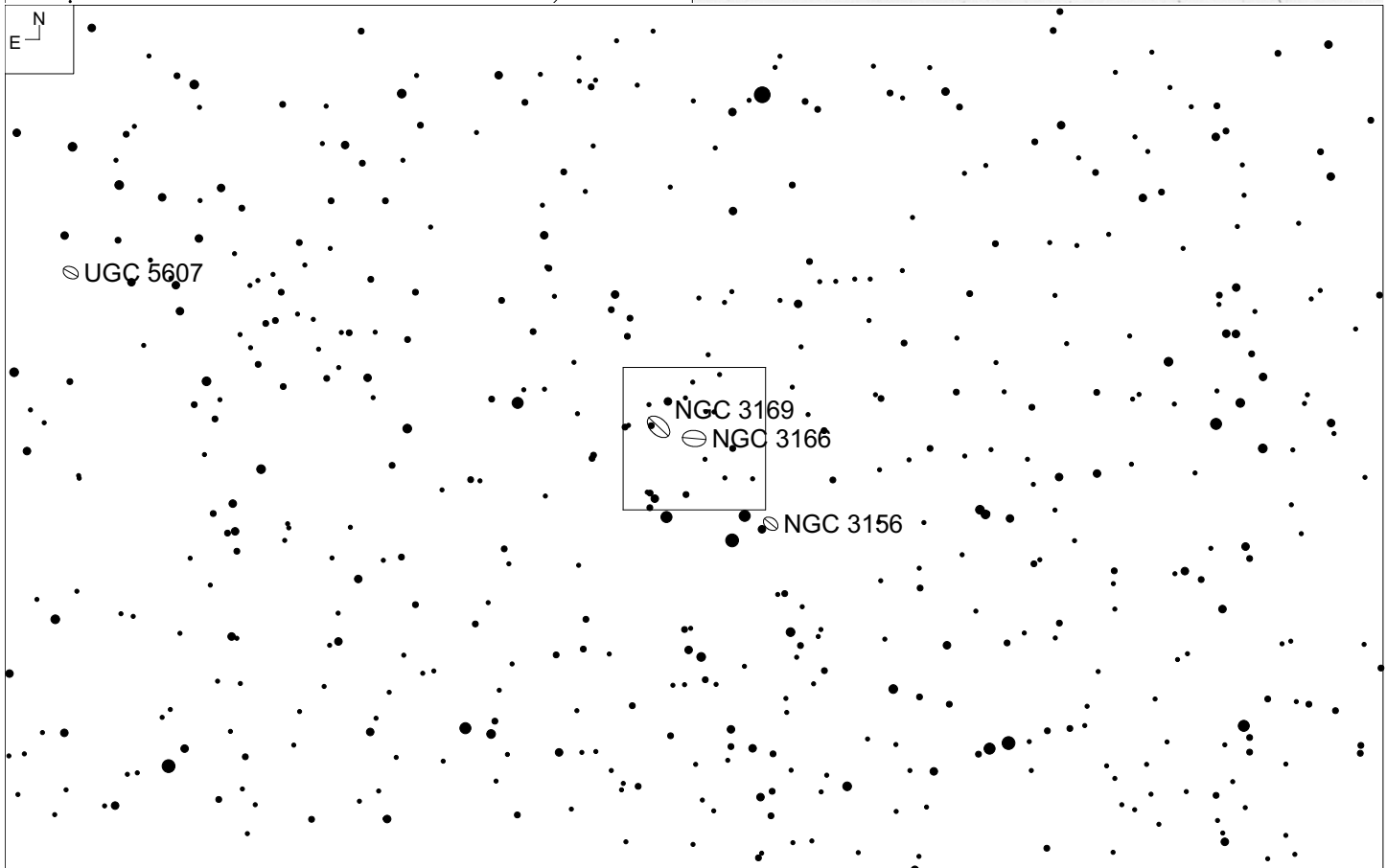
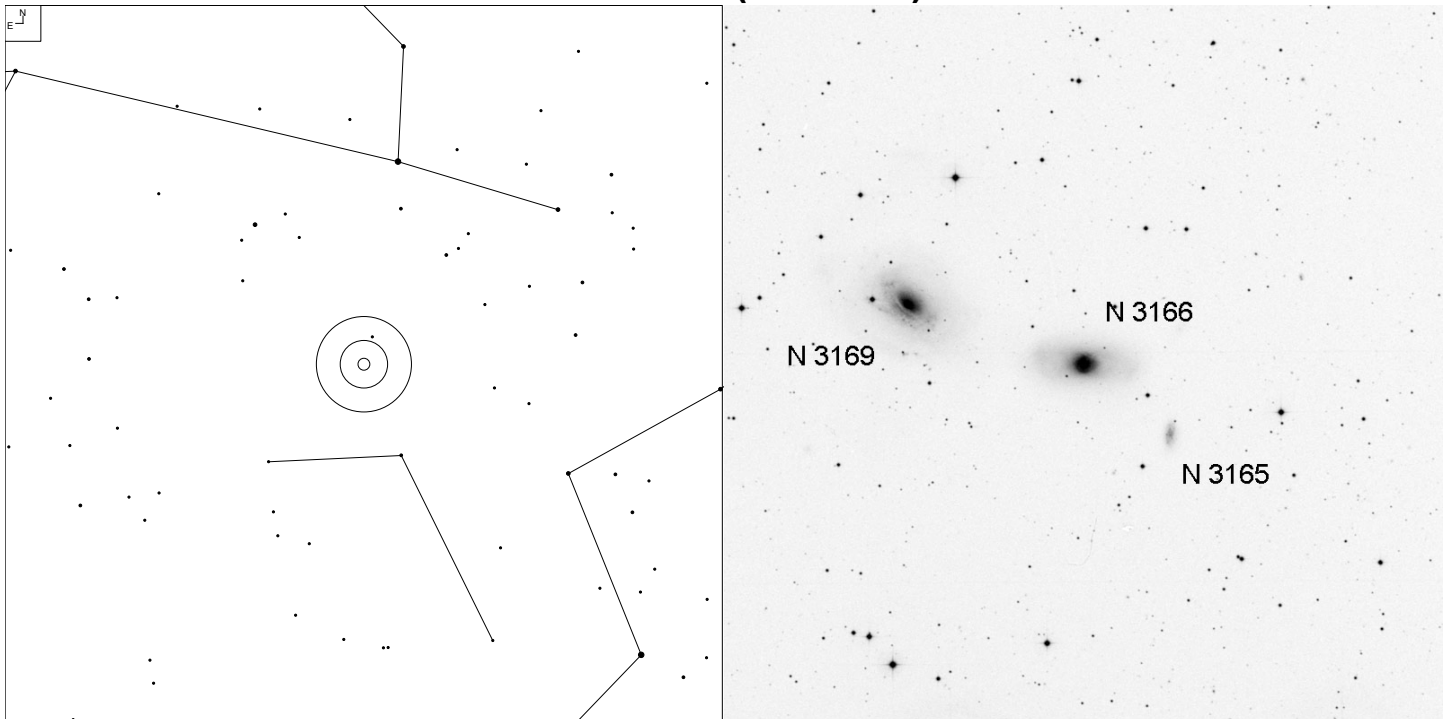
NGC 3988 (Leo)



Object	RA	Dec	Mag	Size
NGC 3988	11 57 24.2	+27 52 39	14.3p	0.7 x 0.7'
IC 2982			15.3	0.7 x 0.5'
NGC 4004			14.1b	2.2 x 0.7'

Miles Paul trio

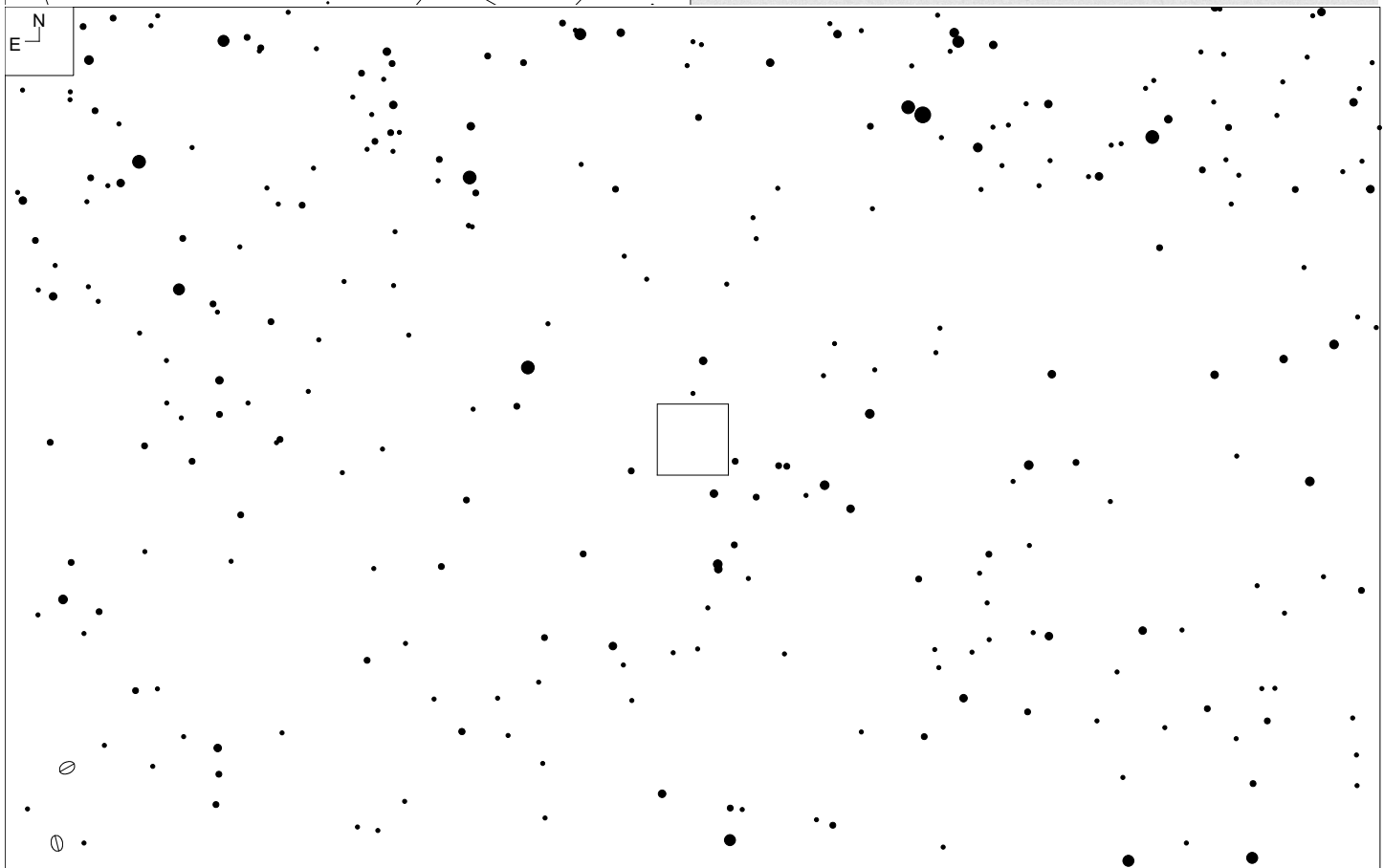
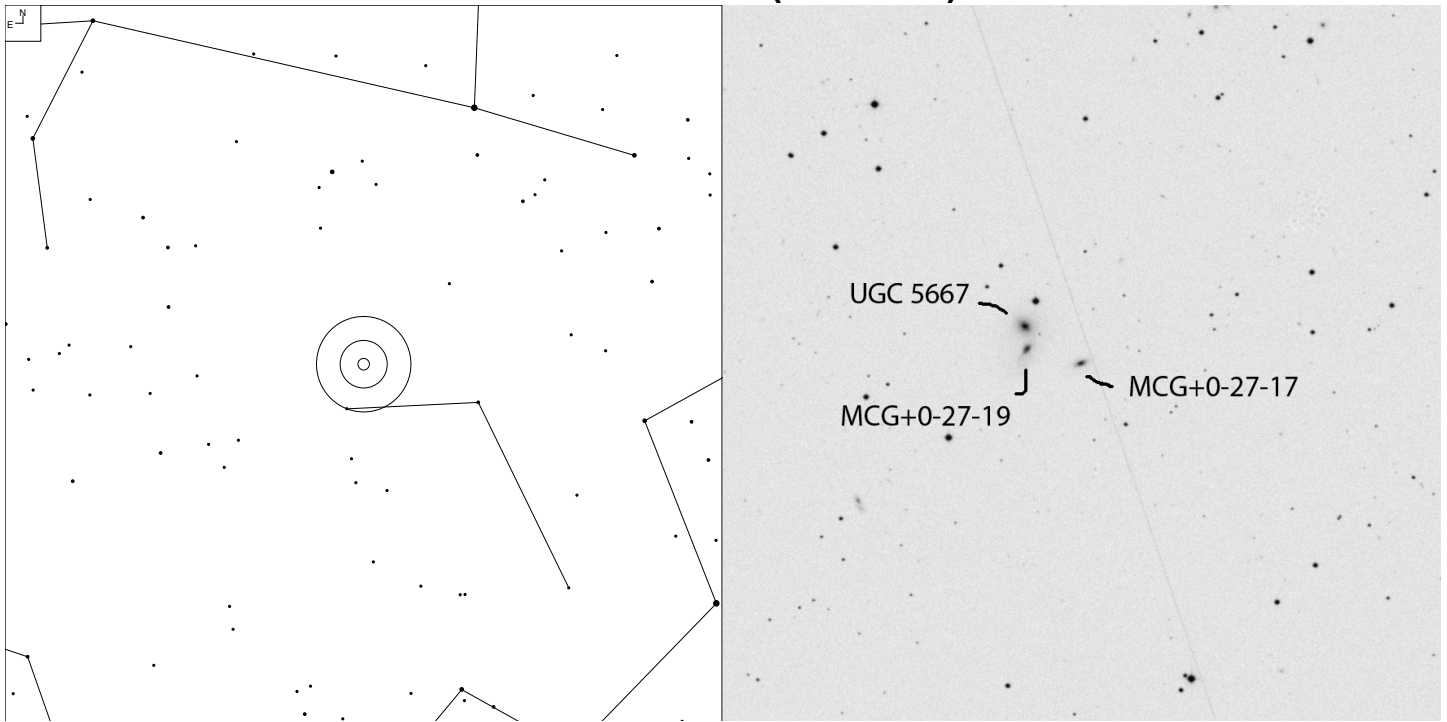
NGC 3169 (Sextans)



Object	RA	Dec	Mag	Size
NGC 3169	10 14 14.8	+03 28 00	11.1b	5.4 x 2.7'
NGC 3166			11.3b	4.8 x 2.3'
NGC 3165			14.5b	1.8 x 0.7'

Miles Paul trio

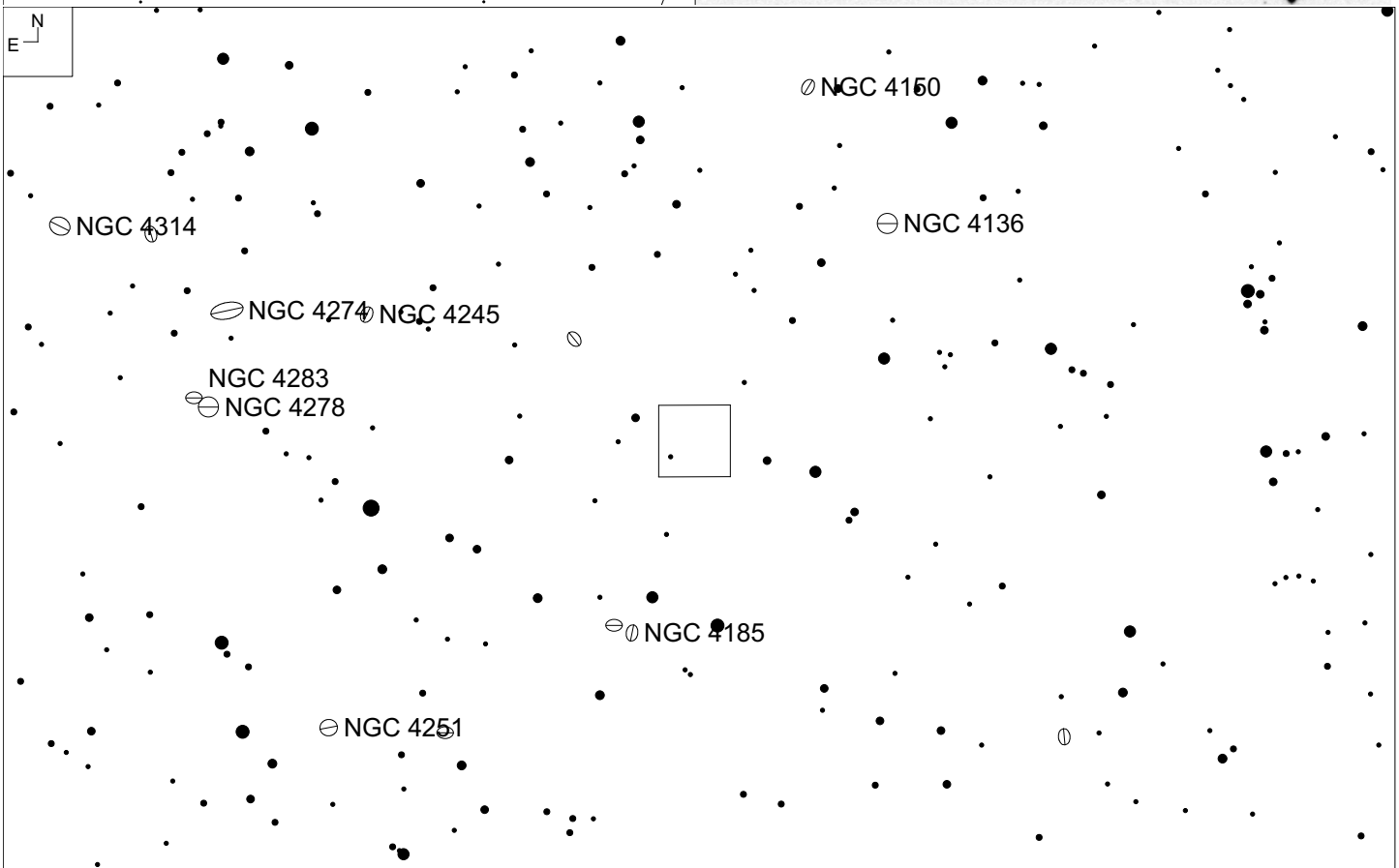
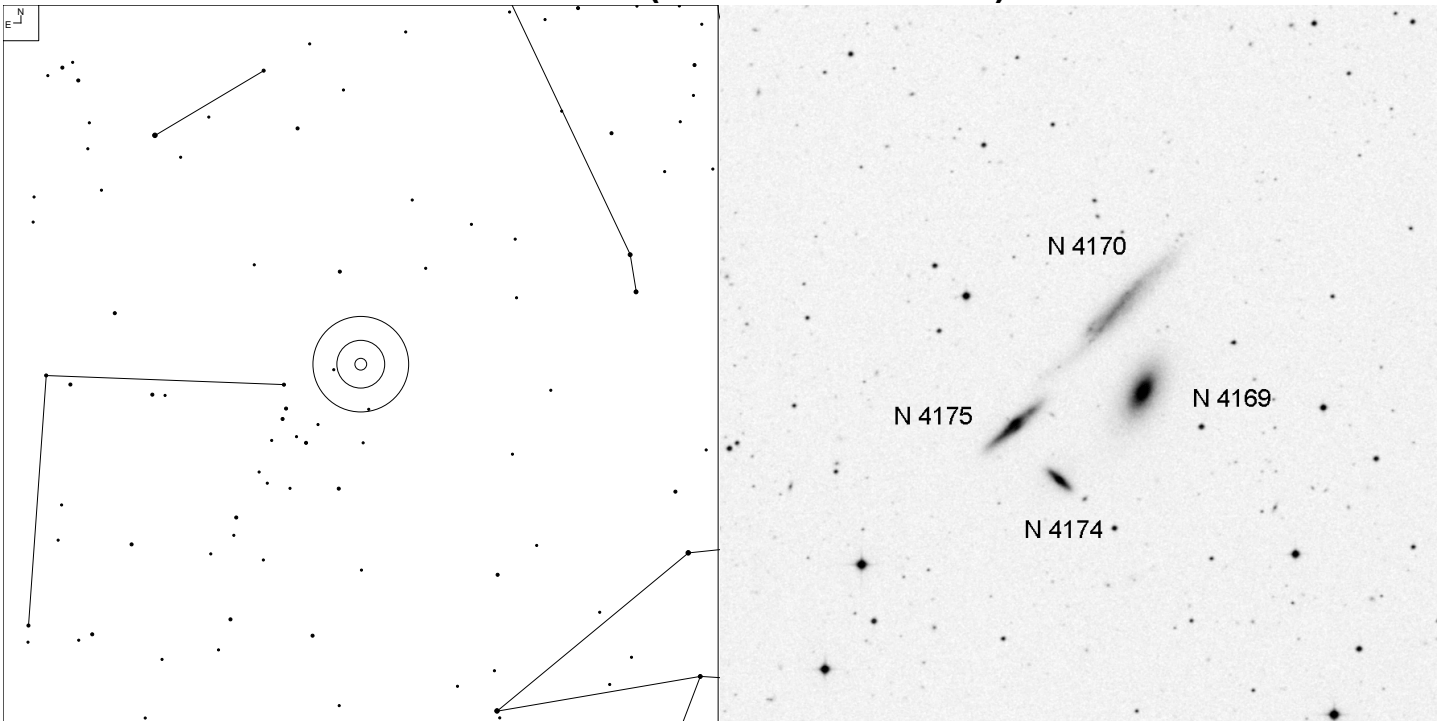
MCG+0-27-17 (Sextans)



Object (KTG 29)	RA	Dec	Mag	Size
MCG+0-27-17	10 27 24.9	+01 14 29	15.7	0.4 x 0.2'
MCG+0-27-19			15.0	0.9 x 0.4'
UGC 5667			14.9	0.8 x 0.8'

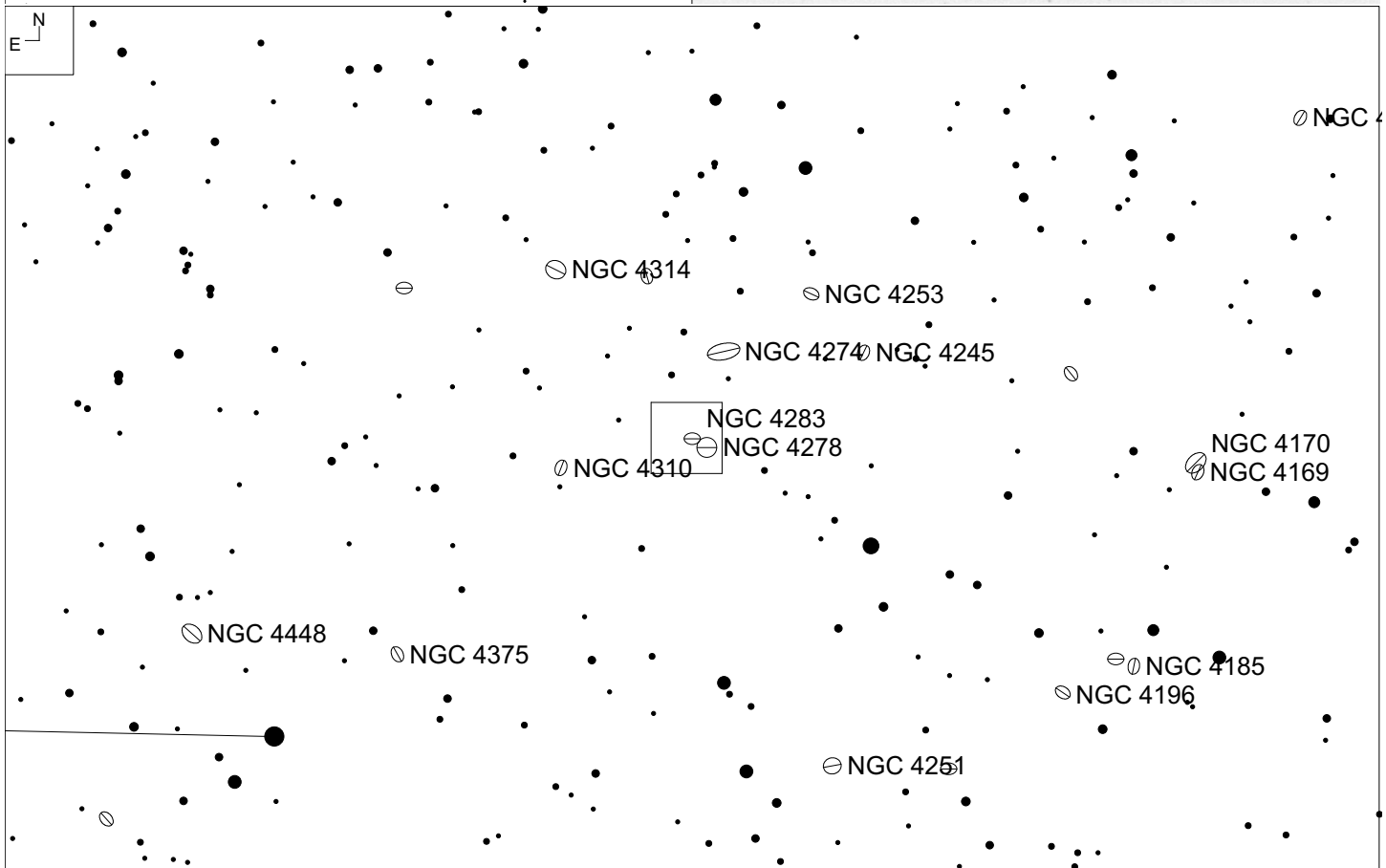
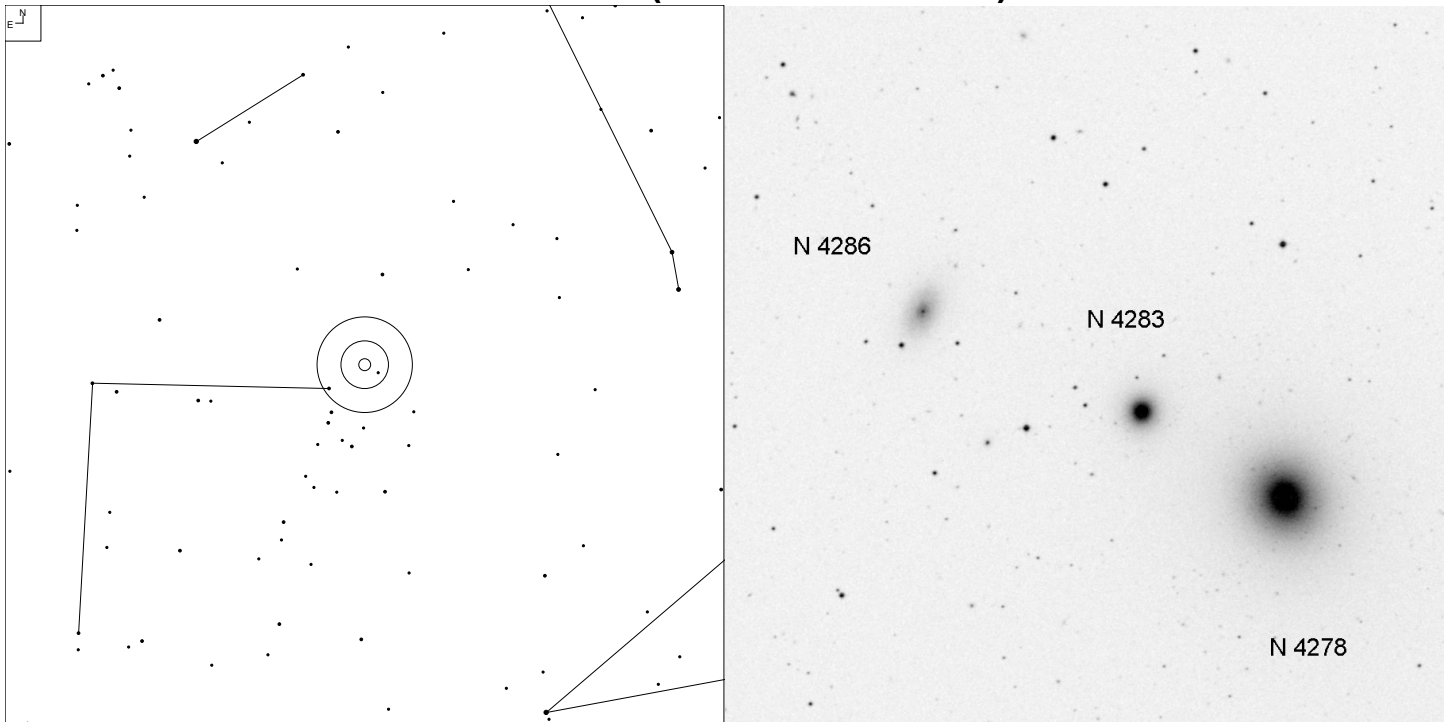
Miles Paul trio

NGC 4169 (Coma Berenices)



Object (KTG 42)	RA	Dec	Mag	Size
NGC 4169	12 12 24.9	+29 11 21	13.2	2.3 x 1.2'
NGC 4170			13.6	5.0 x 0.7'
NGC 4175			14.2	1.8 x 0.4'
NGC 4174			14.3	1.1 x 0.5'

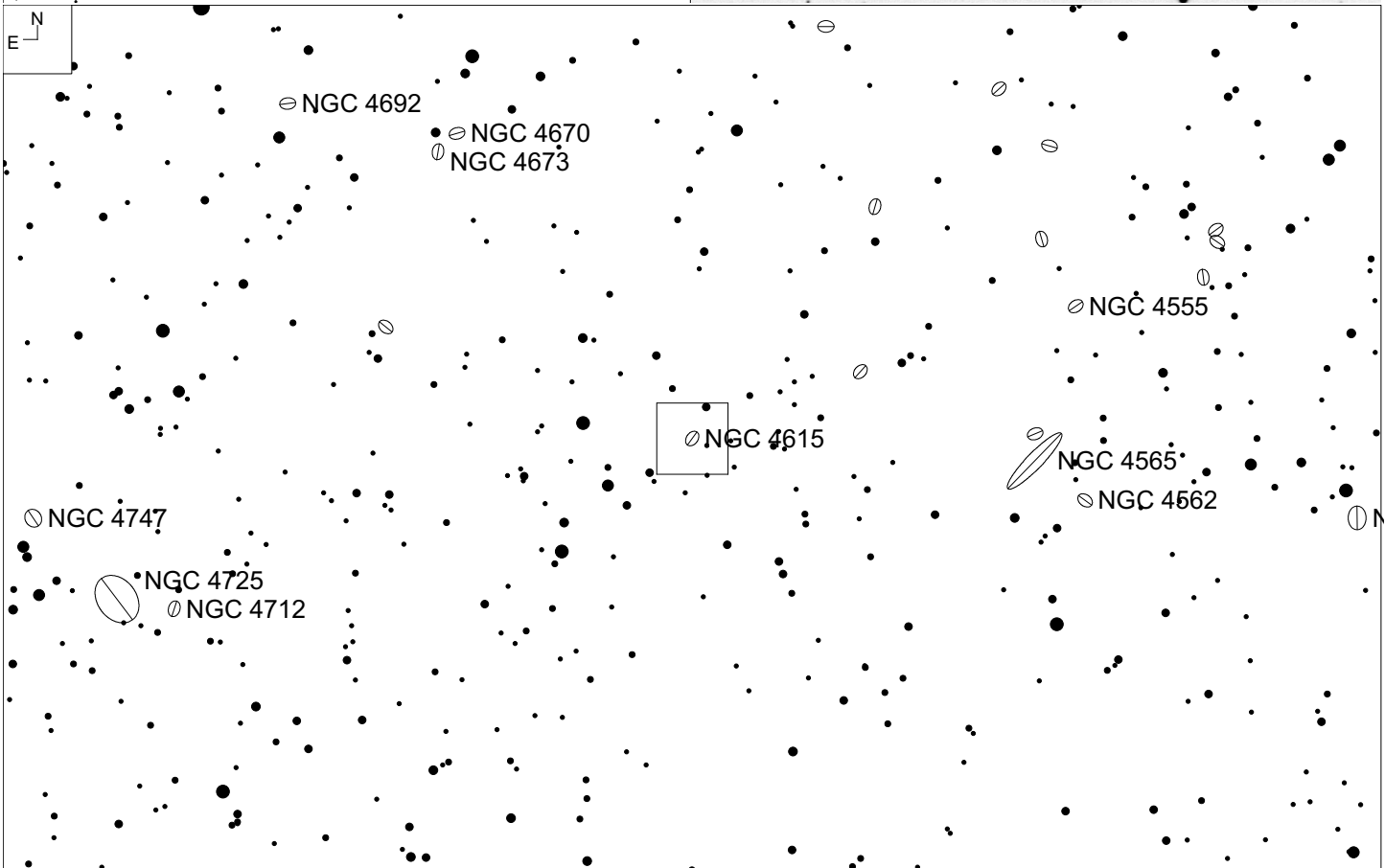
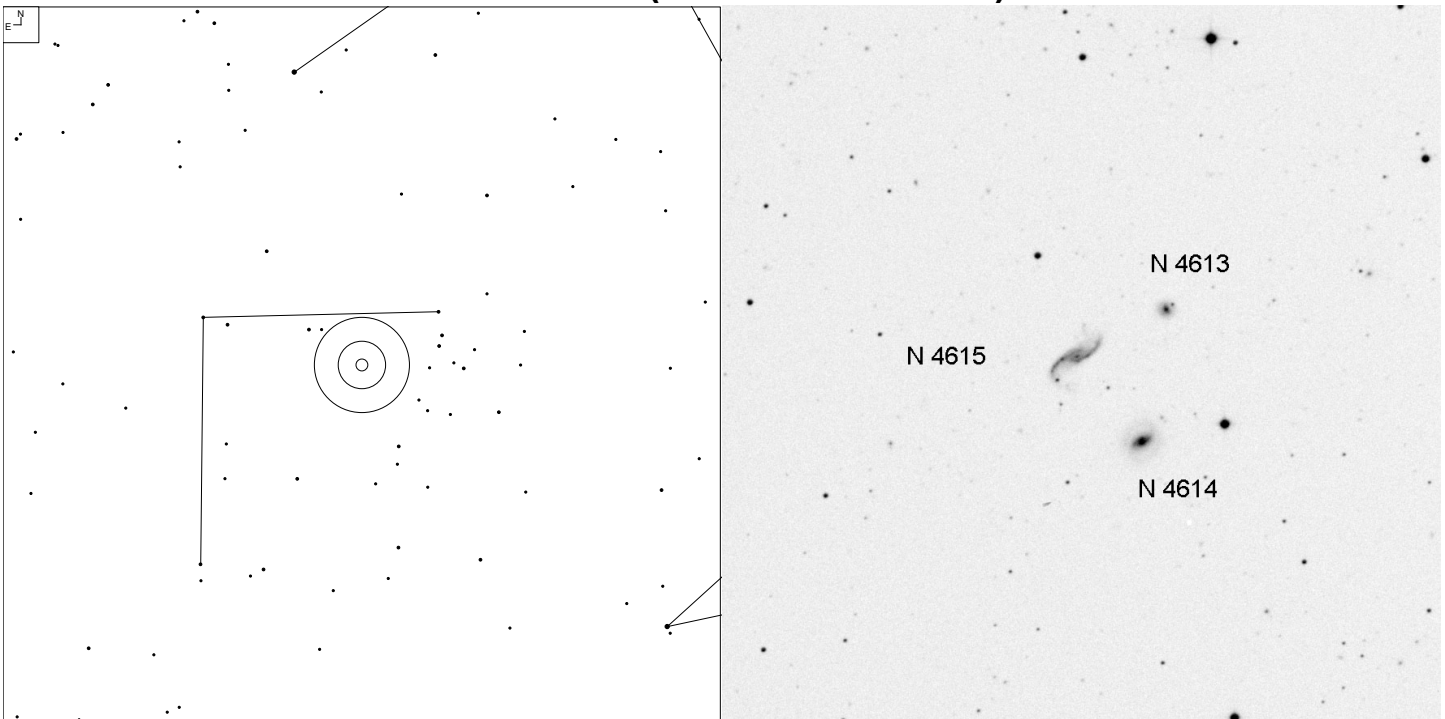
NGC 4278 (Coma Berenices)



Object	RA	Dec	Mag	Size
NGC 4278	12 20 06.8	+29 16 50	11.1b	4.0 x 4.0'
NGC 4283			13.0b	1.5 x 1.5'
NGC 4286			14.1p	1.5 x 0.9'

Miles Paul and Astronomical League trio

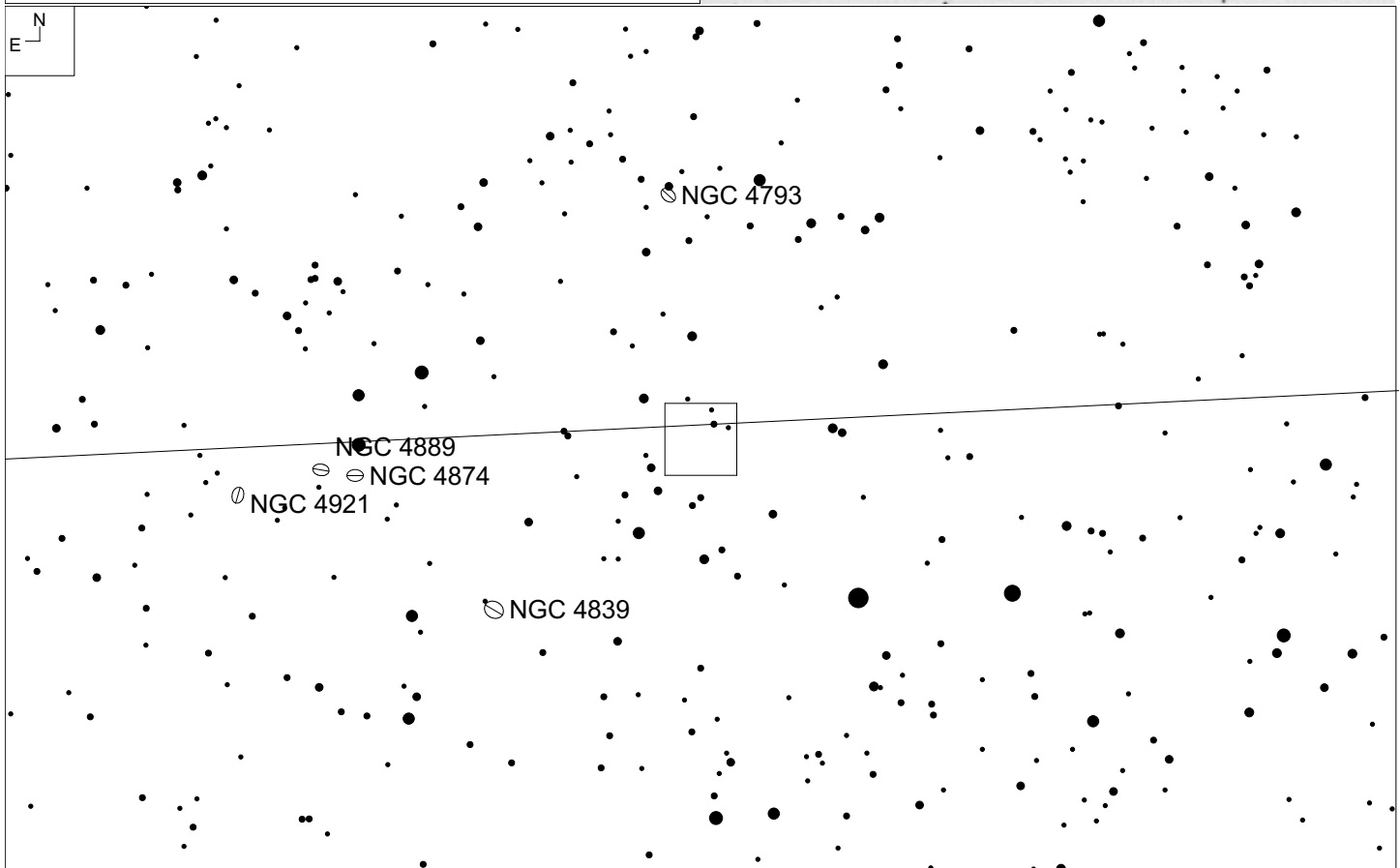
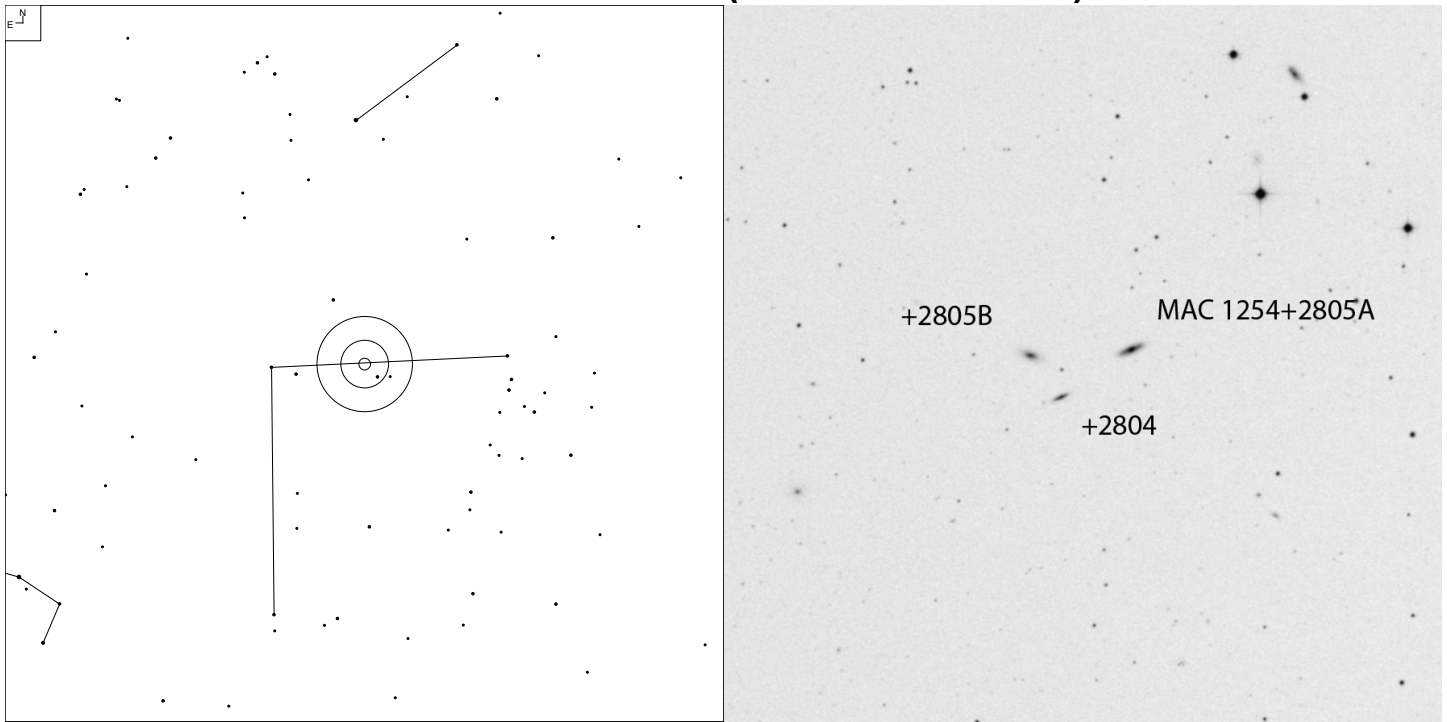
NGC 4615 (Coma Berenices)



Object (KTG 45)	RA	Dec	Mag	Size
NGC 4615	12 41 37.4	+26 04 22	13.8p	1.5 x 1.2'
NGC 4614			14.3p	1.0 x 0.9'
NGC 4613			15.6	0.4'

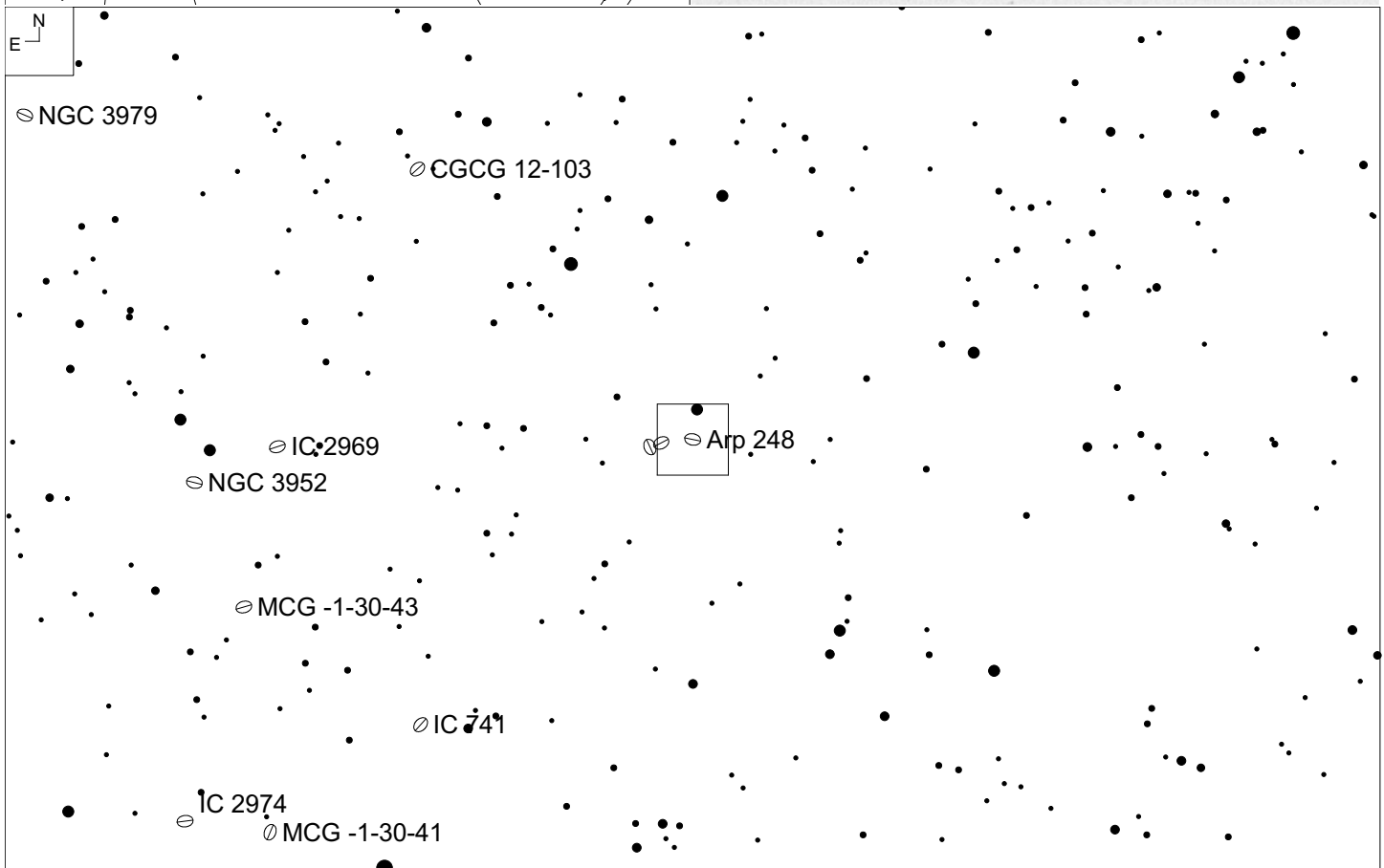
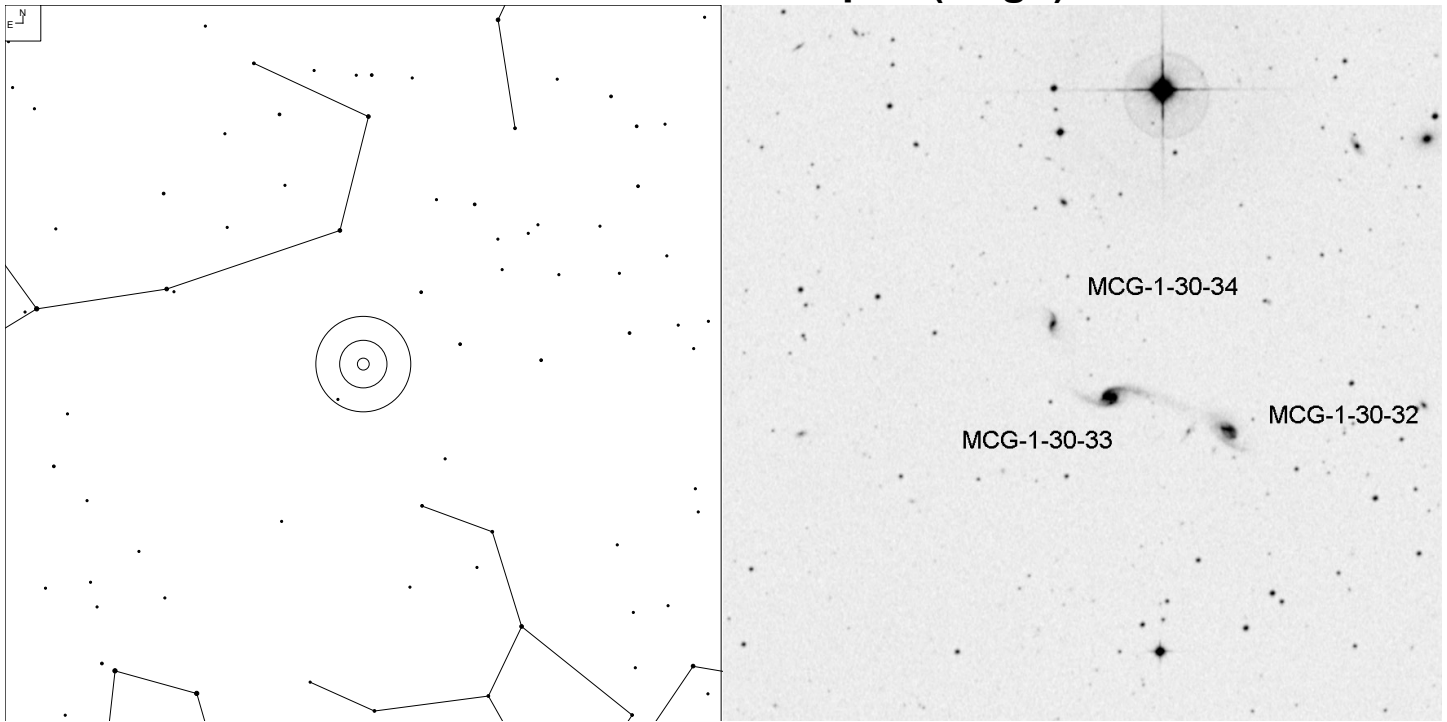
Miles Paul and Astronomical League trio

MAC 1254+2805A (Coma Berenices)



Object	RA	Dec	Mag	Size
MAC 1254+2805A	12 54 10.0	+28 05 31	15.0	0.7 x 0.3'
MAC 1254+2805B			16.0	0.6 x 0.3'
MAC 1254+2804			16.0	0.5 x 0.2'

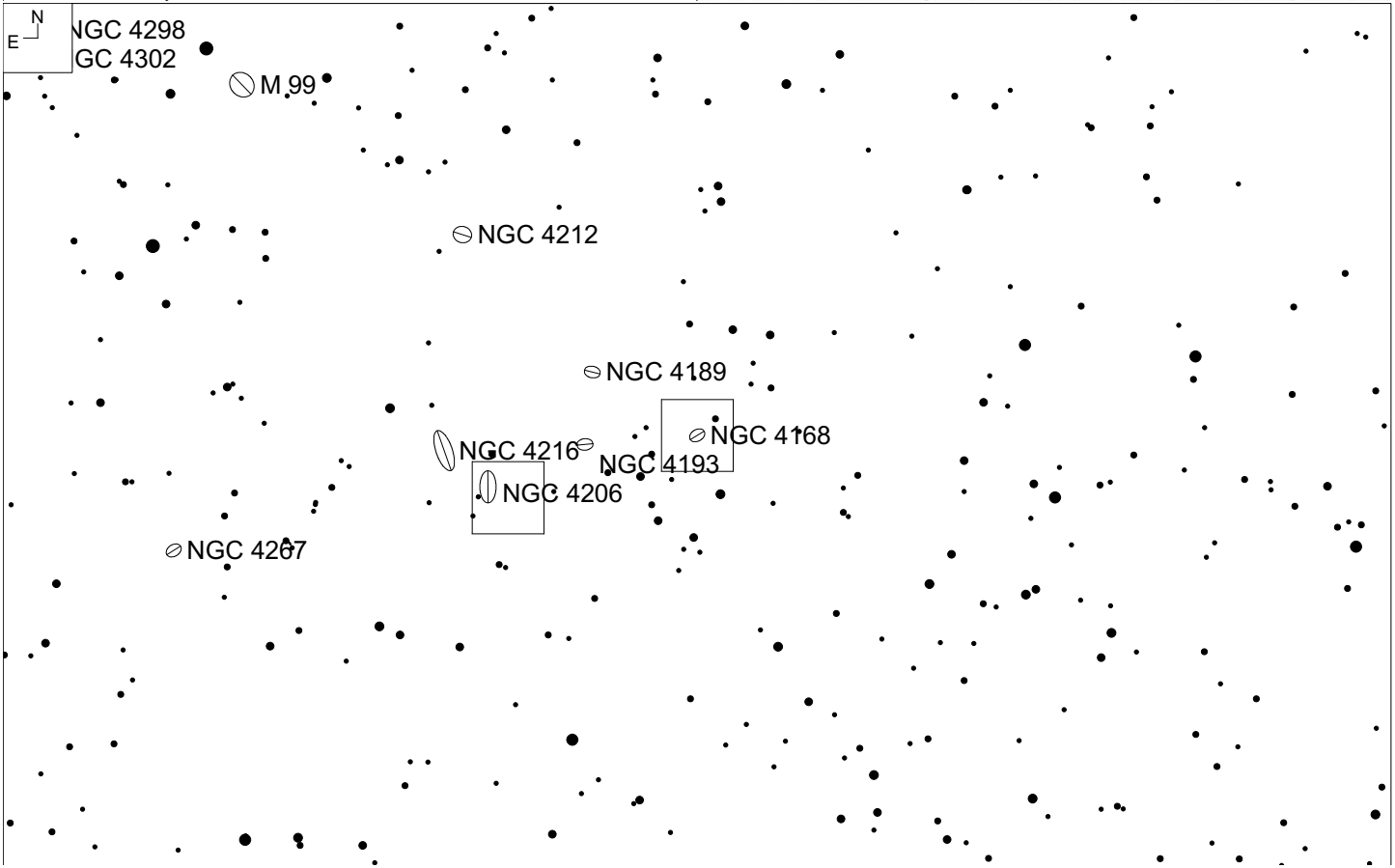
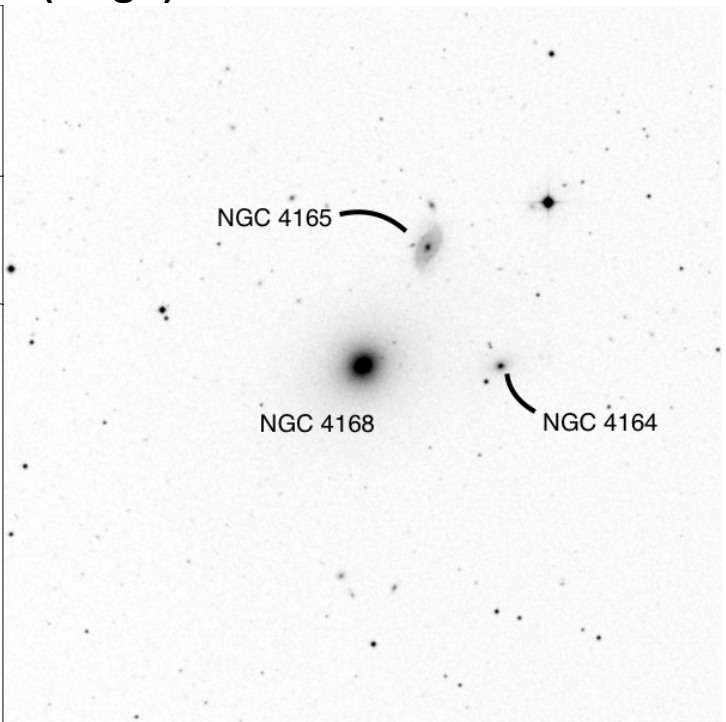
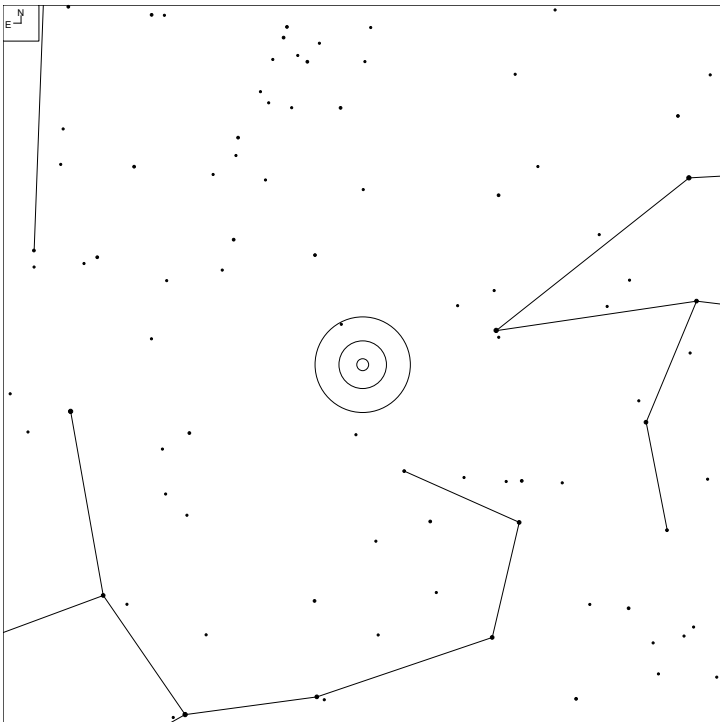
MCG-1-30-33 Wild's Triplet (Virgo)



Object (KTG 38)	RA	Dec	Mag	Size
MCG-1-30-33	11 46 44.5	-03 50 50	13.7	3.1 x 0.7'
MCG-1-30-32			14.2	1.8 x 0.8'
MCG-1-30-34			14.3	1.3 x 0.5'

Miles Paul trio

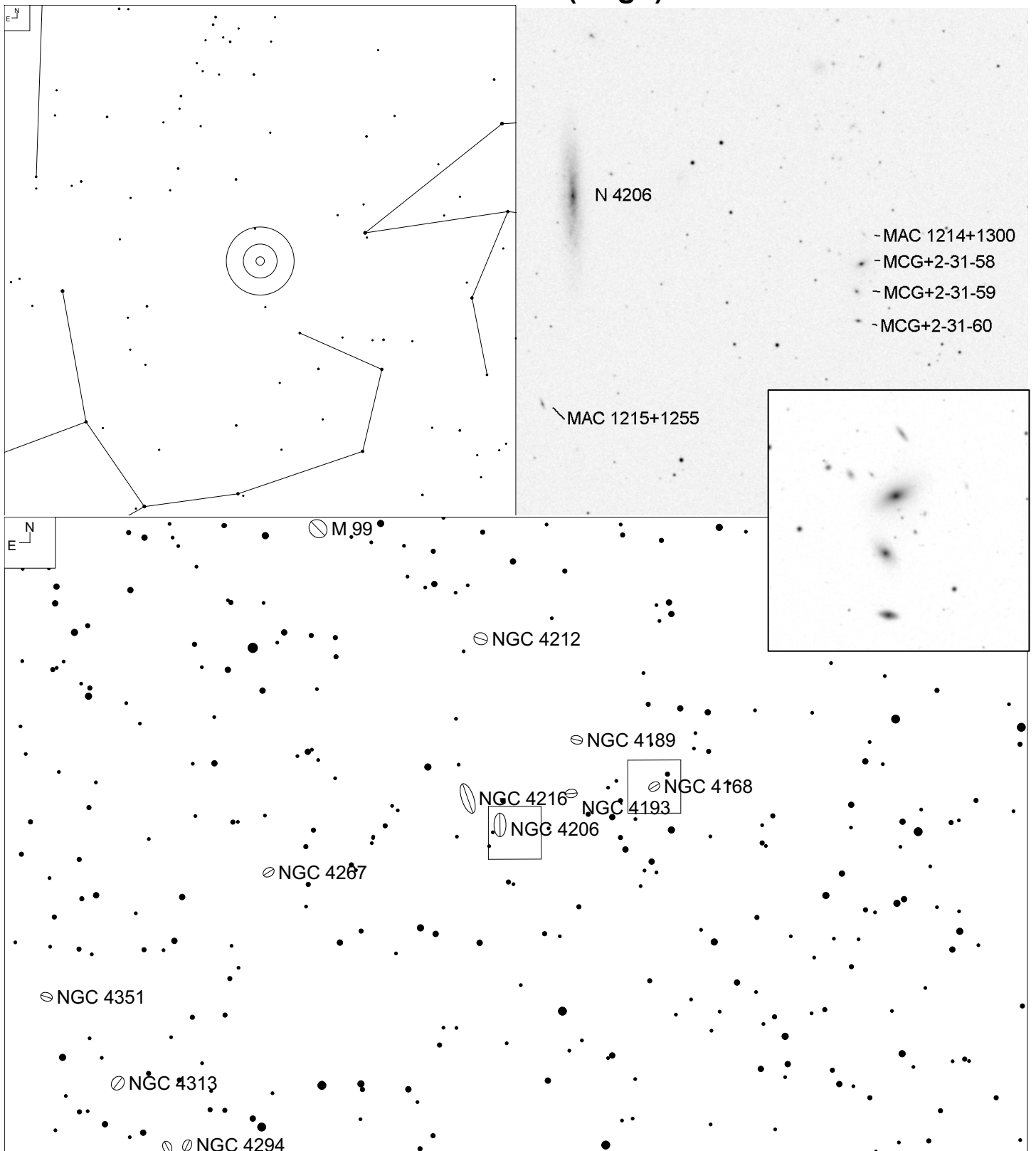
NGC 4168 (Virgo)



Object	RA	Dec	Mag	Size
NGC 4168	12 12 17.2	+13 12 18	12.1b	3.0 x 2.6'
NGC 4165			14.4b	1.3 x 0.8'
NGC 4164			15.7	0.6 x 0.3'

Miles Paul trio

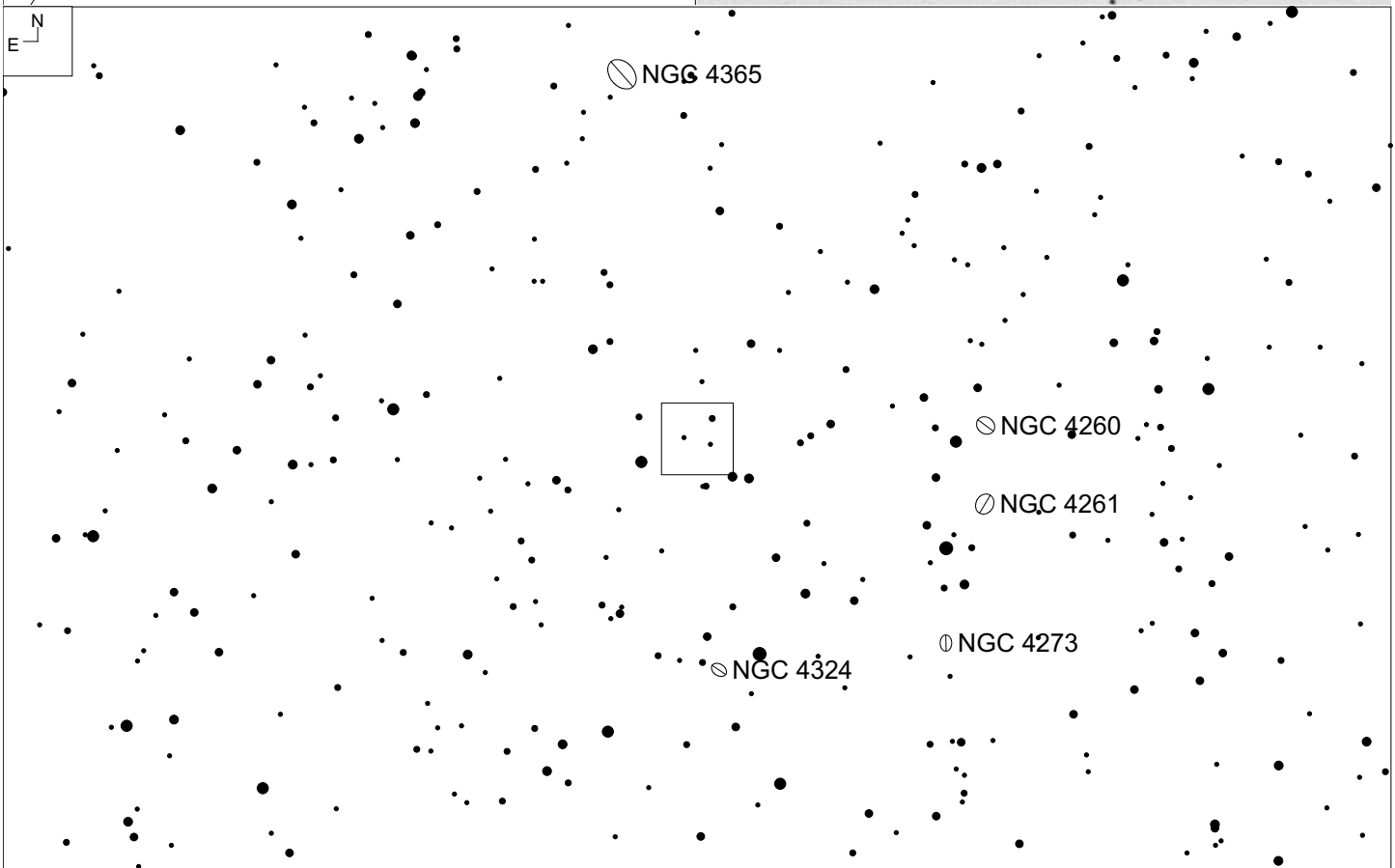
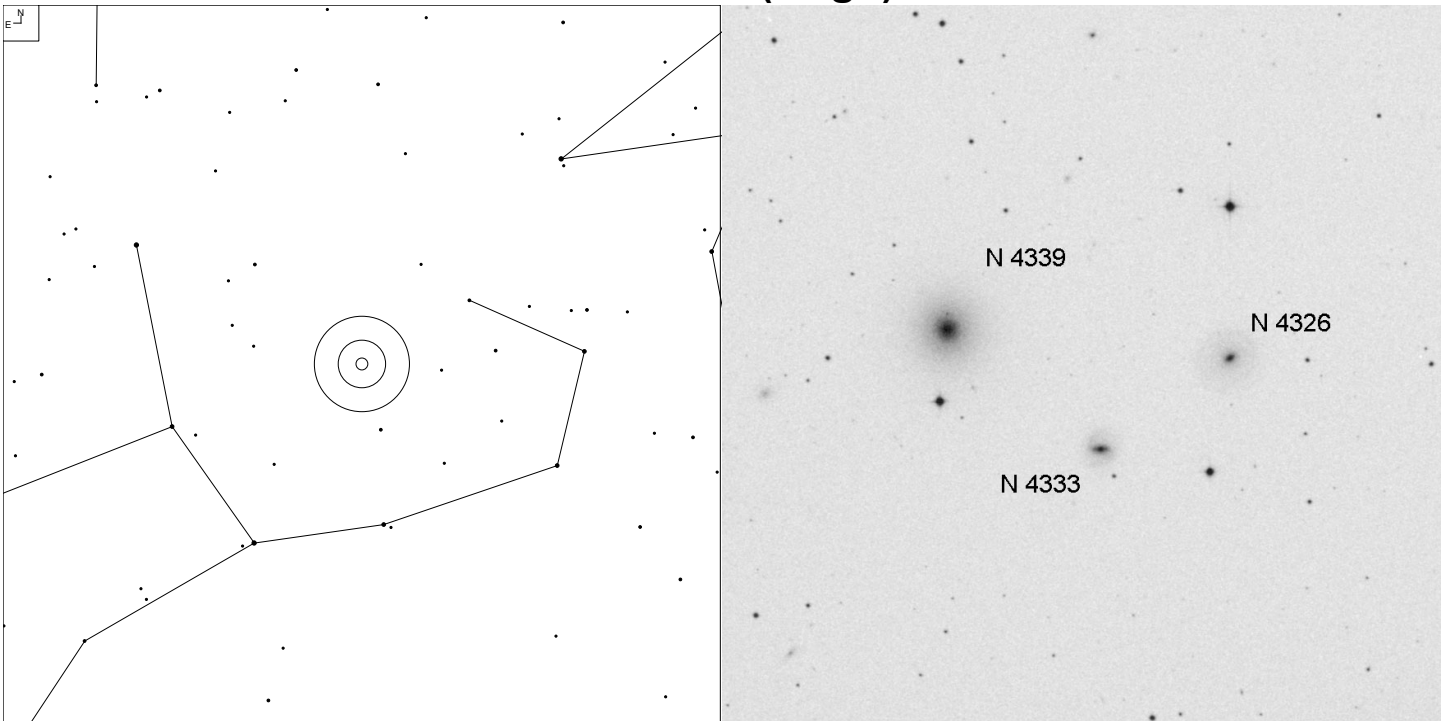
MCG+2-31-58 (Virgo)



Object	RA	Dec	Mag	Size
MCG+2-31-58	12 14 42.5	+12 59 25	16.0	0.6 x 0.3'
MCG+2-31-59			16.7g*	0.4 x 0.3'
MCG+2-31-60			16.8g*	0.3 x 0.2'
MAC 1214+1300			17.0	0.4 x 0.1'

Miles Paul trio

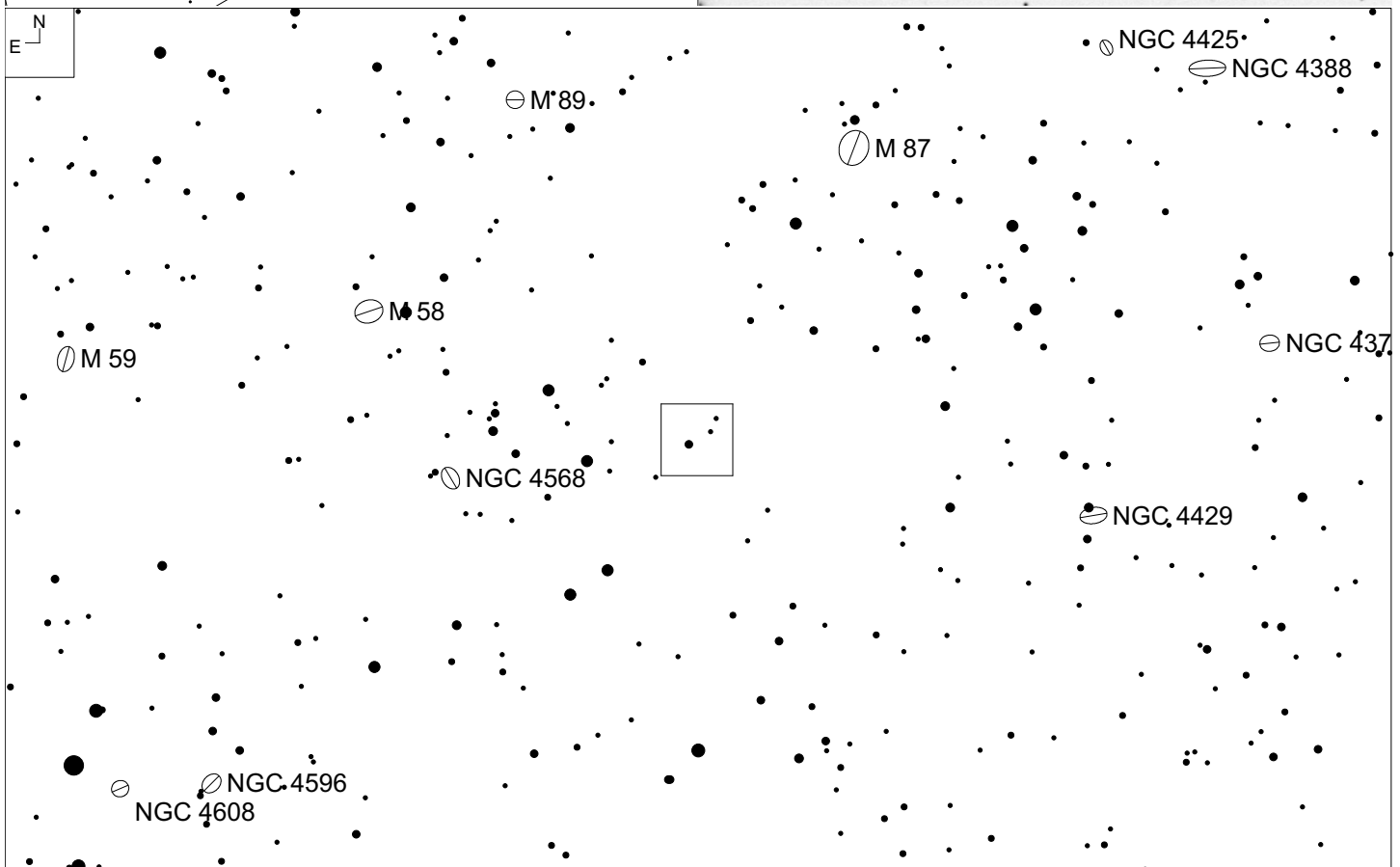
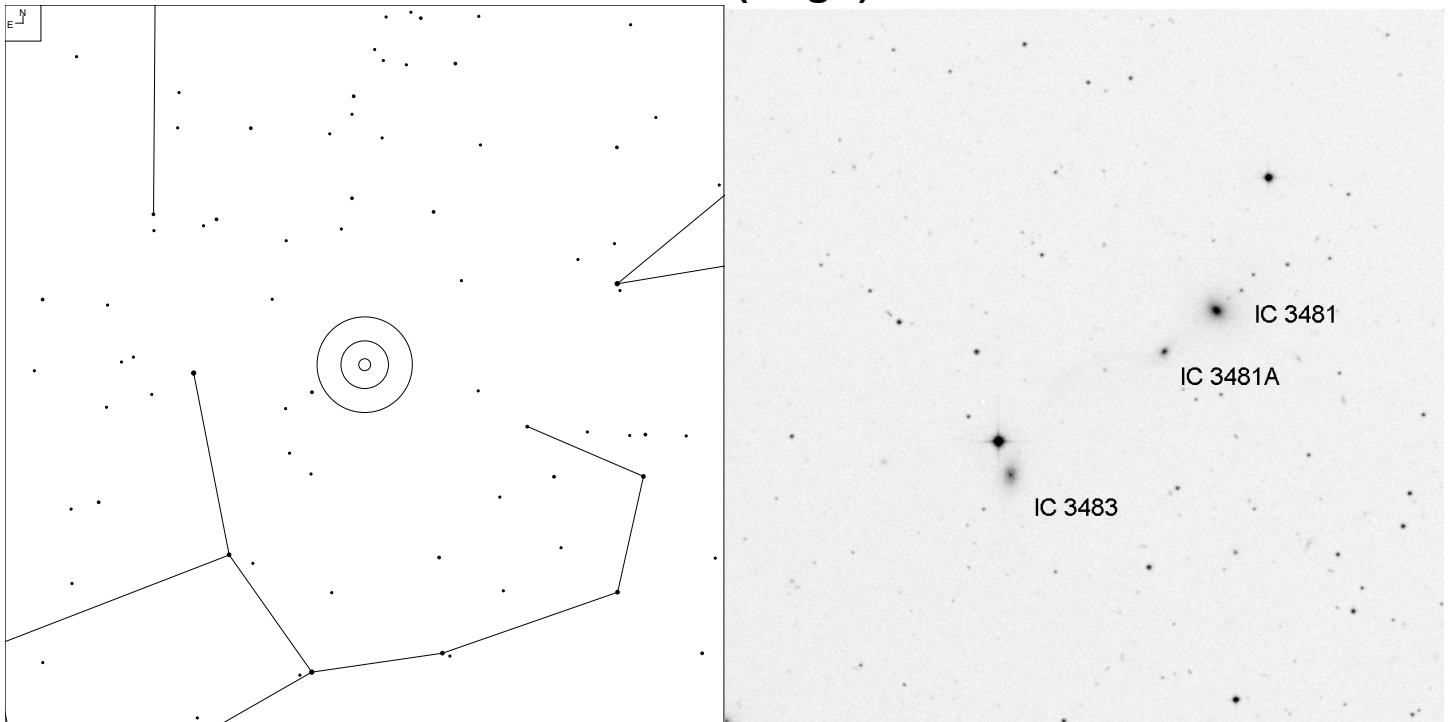
NGC 4339 (Virgo)



Object	RA	Dec	Mag	Size
NGC 4339	12 23 34.9	+06 04 54	12.3b	2.2 x 2.2'
NGC 4333			14.5p	0.8'
NGC 4326			14.2p	1.4 x 1.2'

Miles Paul and Astronomical League trio

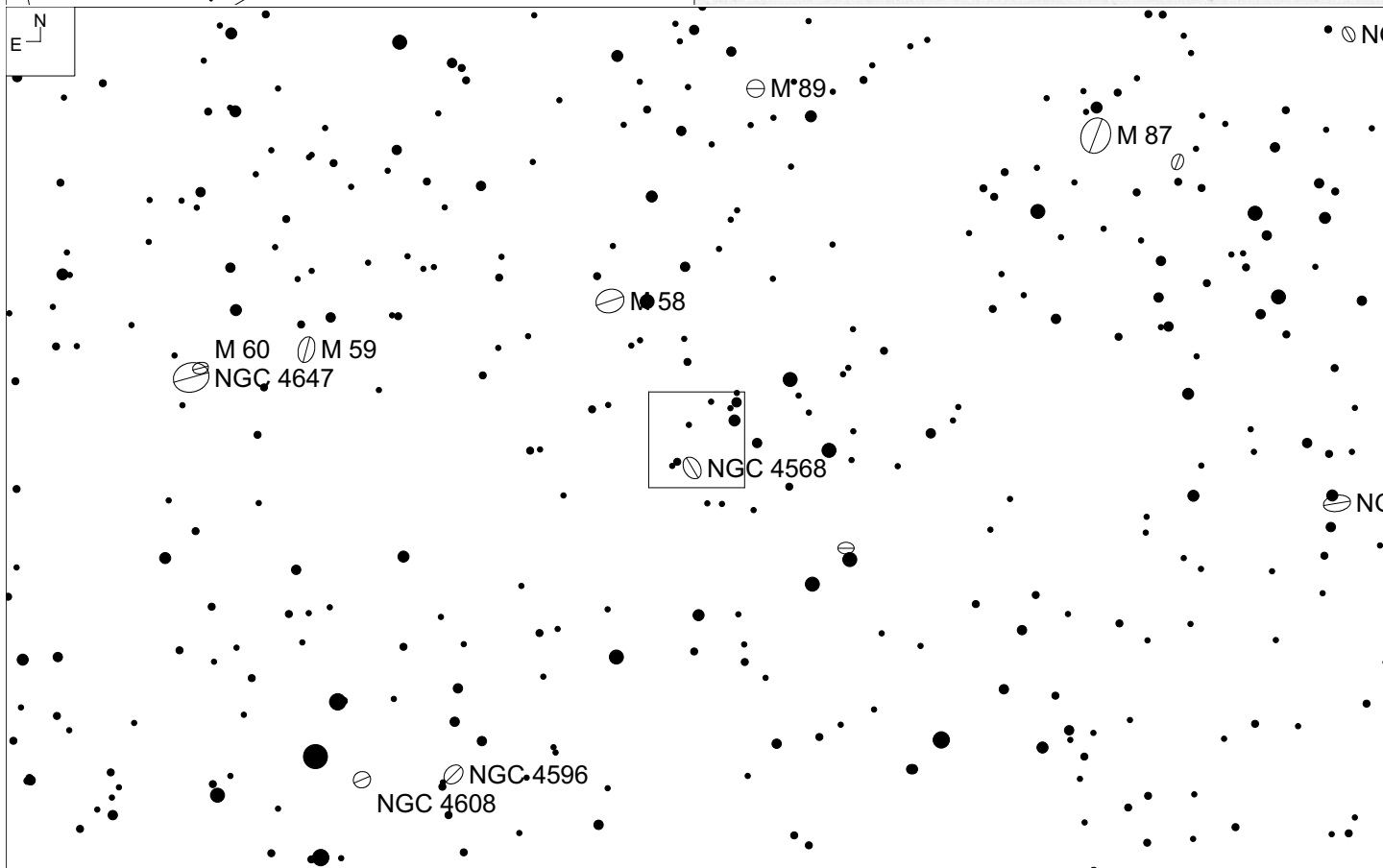
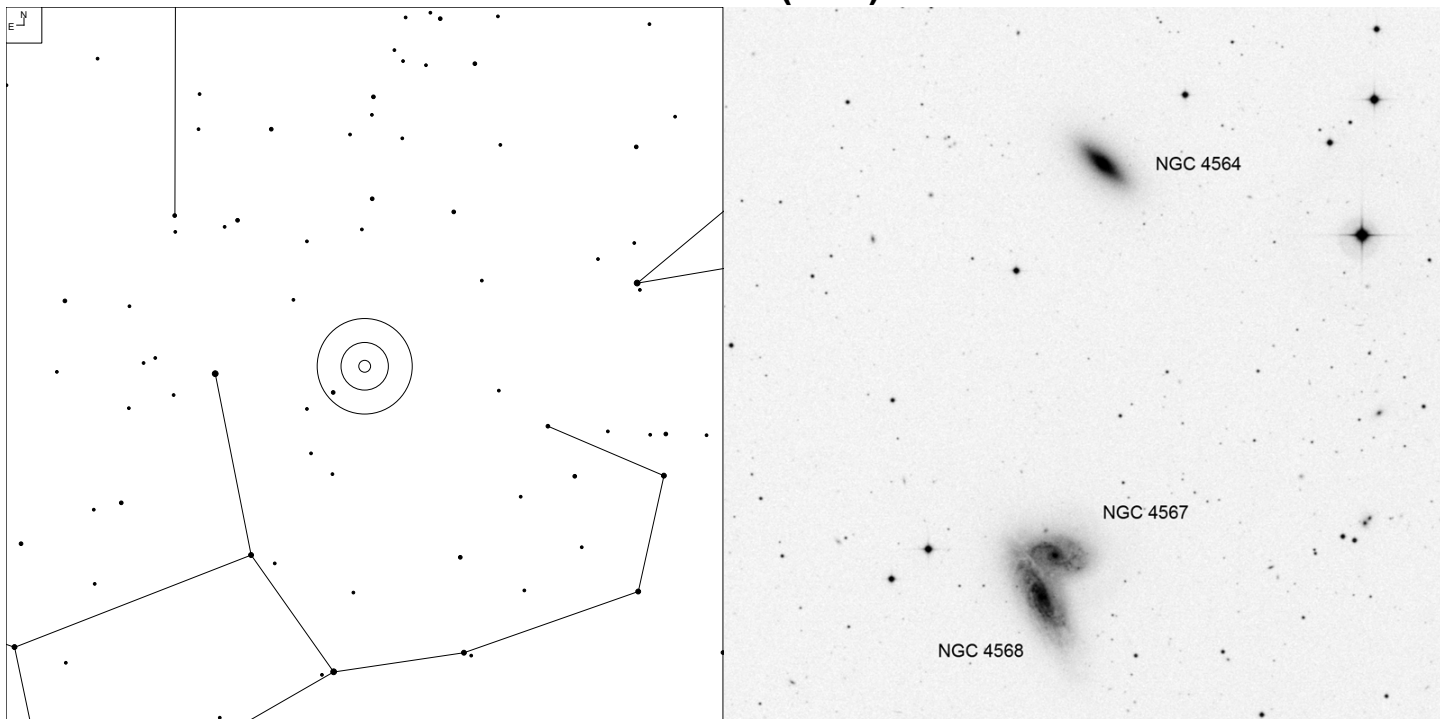
IC 3481 (Virgo)



Object	RA	Dec	Mag	Size
IC 3481	12 32 52.3	+11 24 15	14.4	0.9 x 0.8'
IC 3481A			14.4	0.4'
IC 3483			15.7b	1.2 x 0.6'

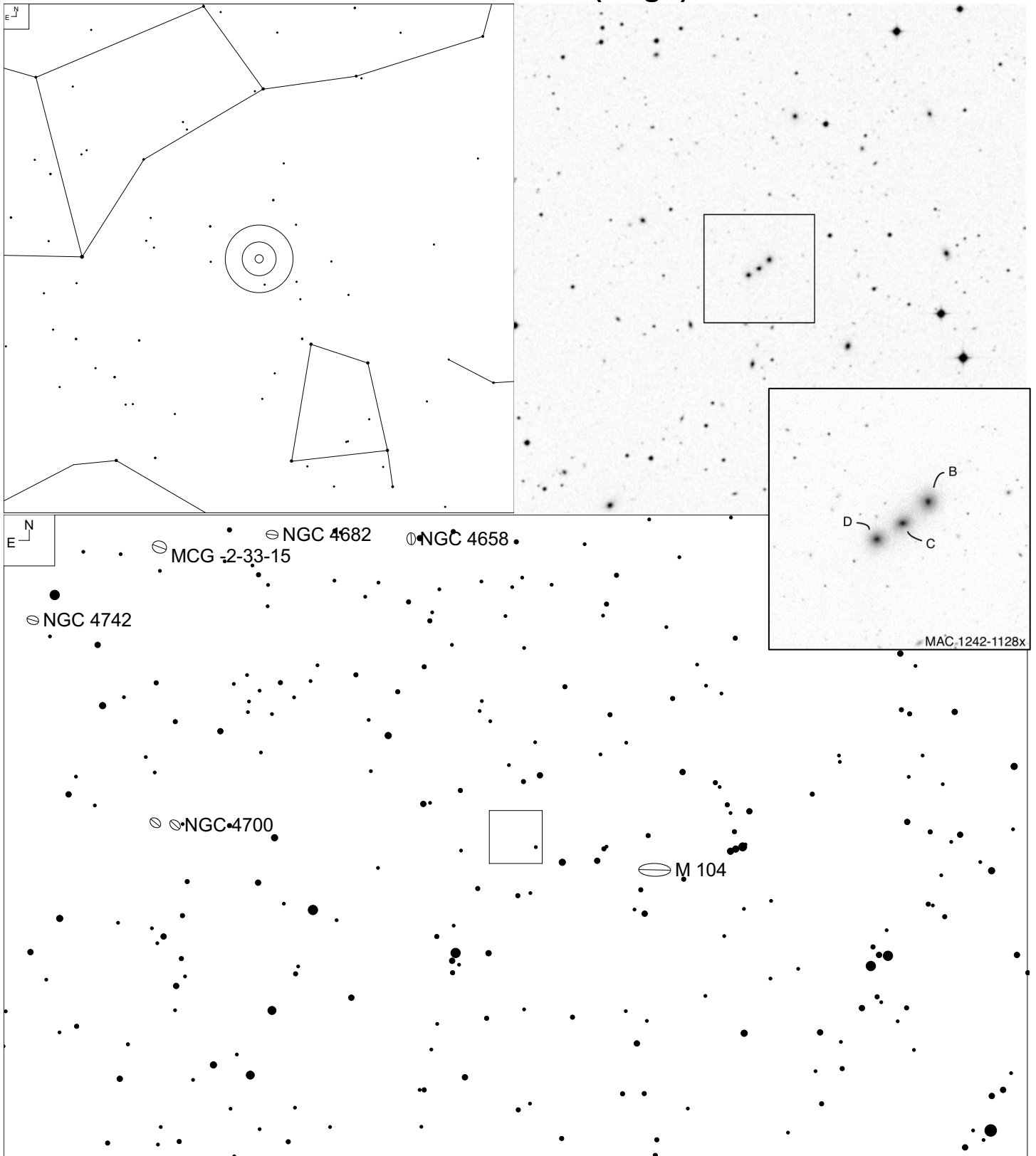
Miles Paul trio

NGC 4564 (Leo)



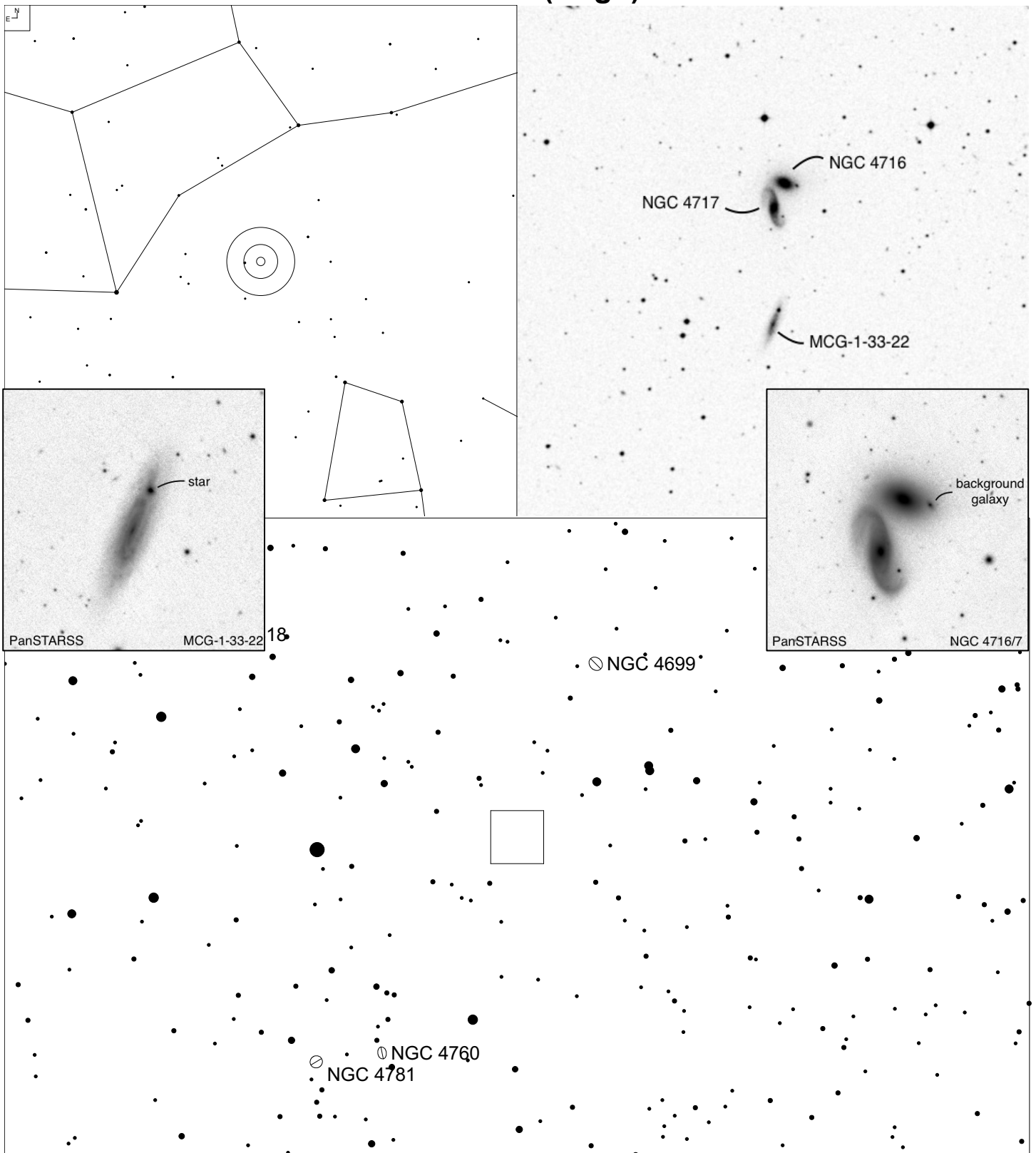
Object (KDG 150)	RA	Dec	Mag	Size
NGC 4564	12 36 29.2	+11 20 44	12.1b	3.8 x 1.7'
NGC 4567			12.1b	3.3 x 2.0'
NGC 4568			11.7b	4.8 x 2.0'

MAC 1242-1128B (Virgo)



Object	RA	Dec	Mag	Size
MAC 1242-1128B	12 42 39.1	-11 28 21	16.0	0.3 x 0.3'
MAC 1242-1128C			16.0	0.3 x 0.3'
MAC 1242-1128D			16.0	0.3 x 0.3'

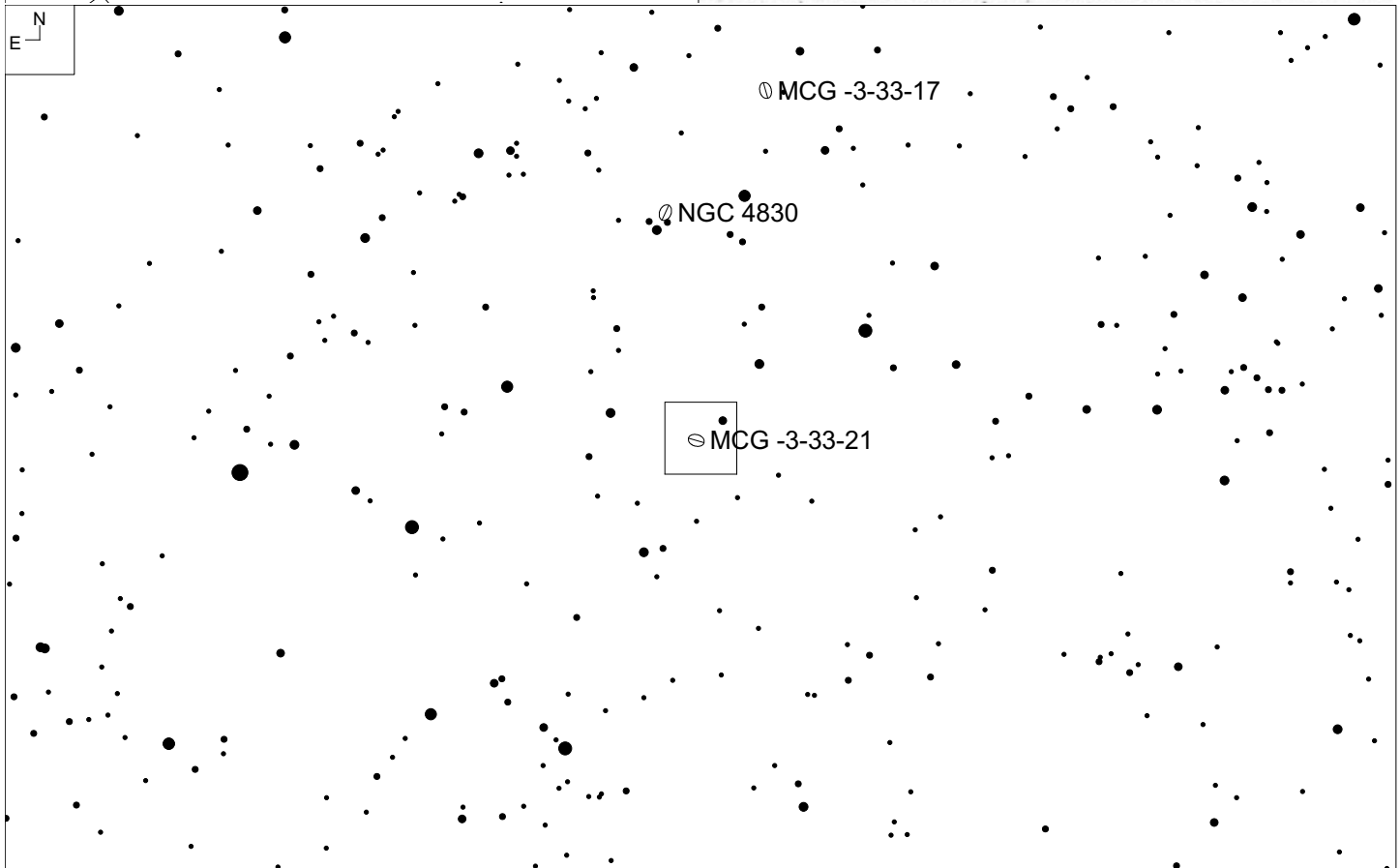
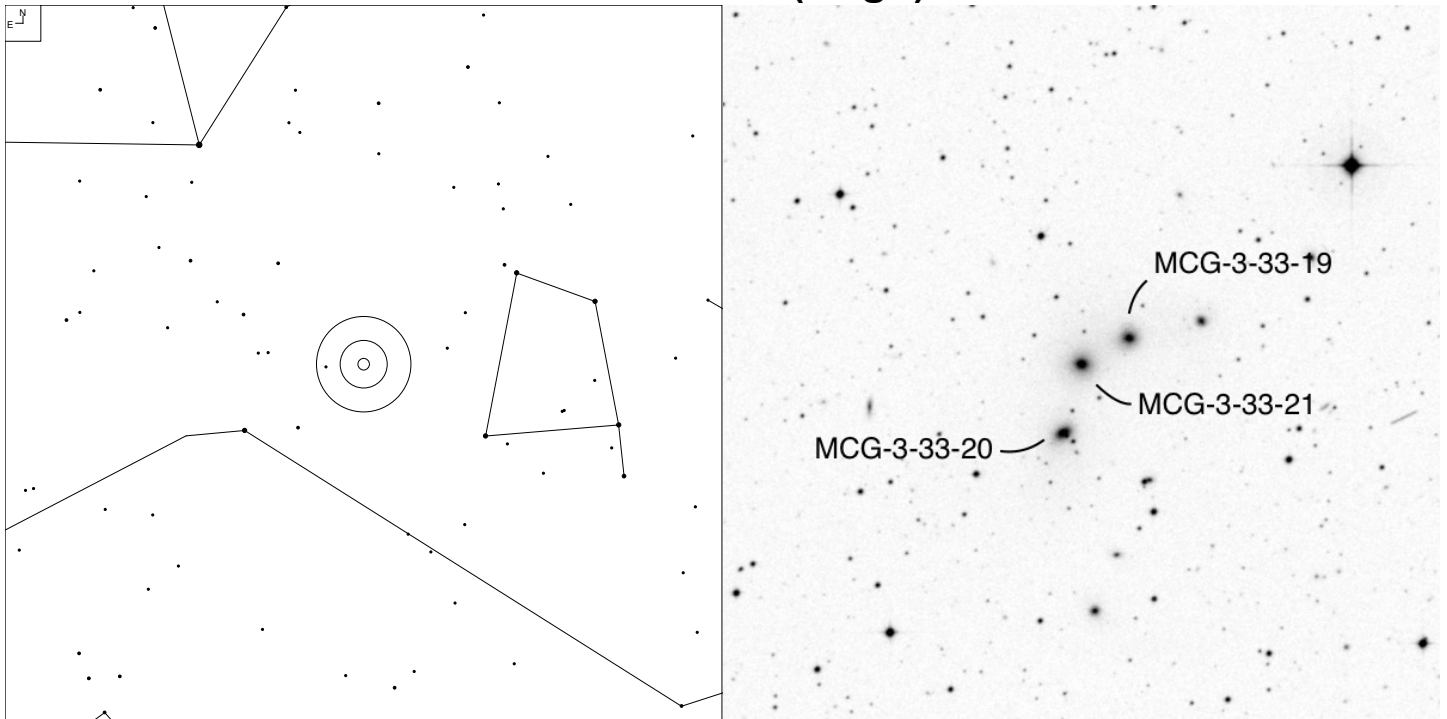
NGC 4716 (Virgo)



Object	RA	Dec	Mag	Size
NGC 4716	12 50 33.2	-09 27 05	14.3	1.3 x 1.0'
NGC 4717			15.1	1.8 x 0.8'
MCG-1-33-22			17.1	2.0 x 0.4'

Miles Paul and Astronomical League trio

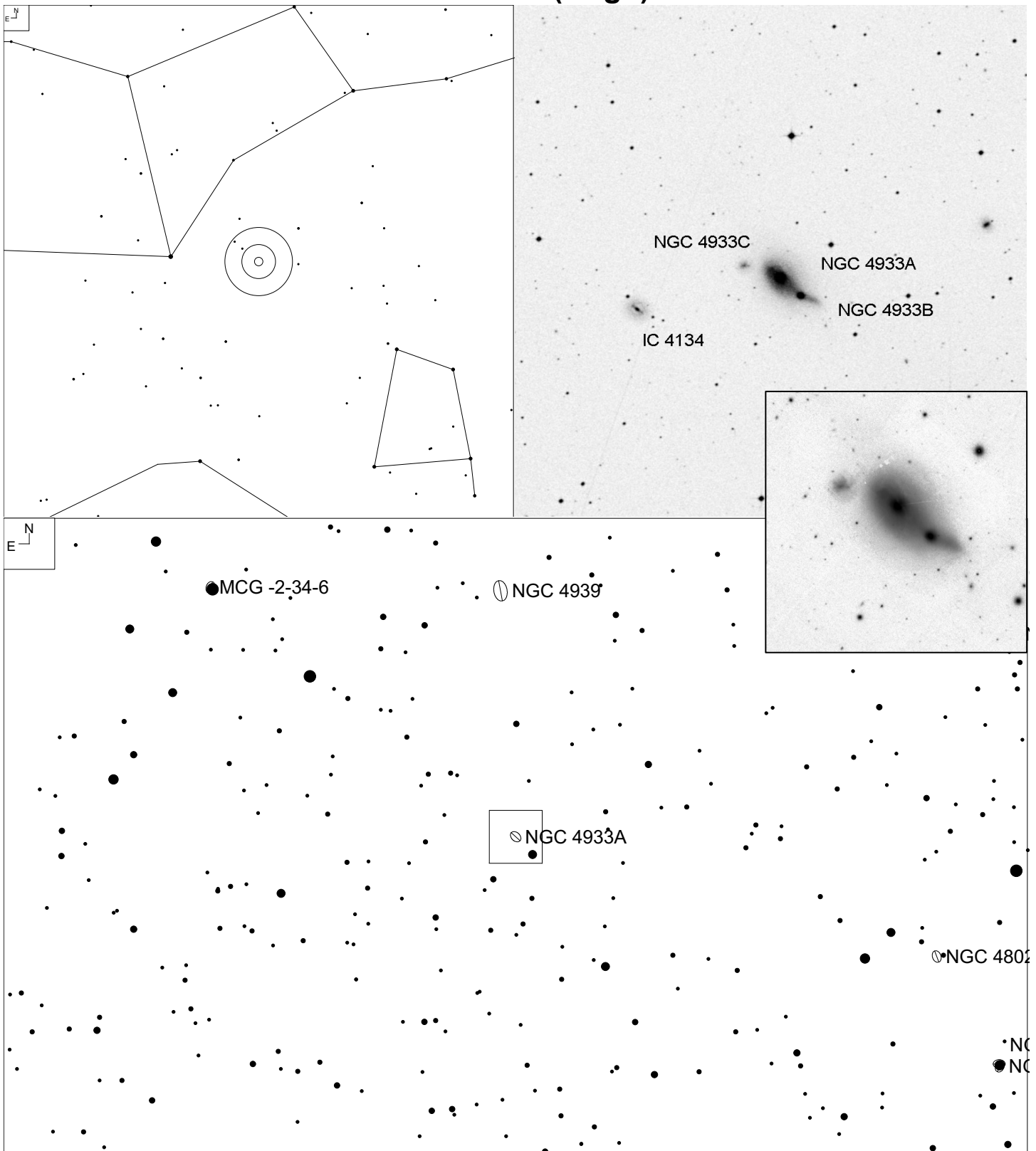
MCG-3-33-19 (Virgo)



Object	RA	Dec	Mag	Size
MCG-3-33-19	12 56 56.4	-20 28 18	14.0	0.9 x 0.8'
MCG-3-33-20			14.6	0.9 x 0.6'
MCG-3-33-21			13.8	1.1 x 1.0'

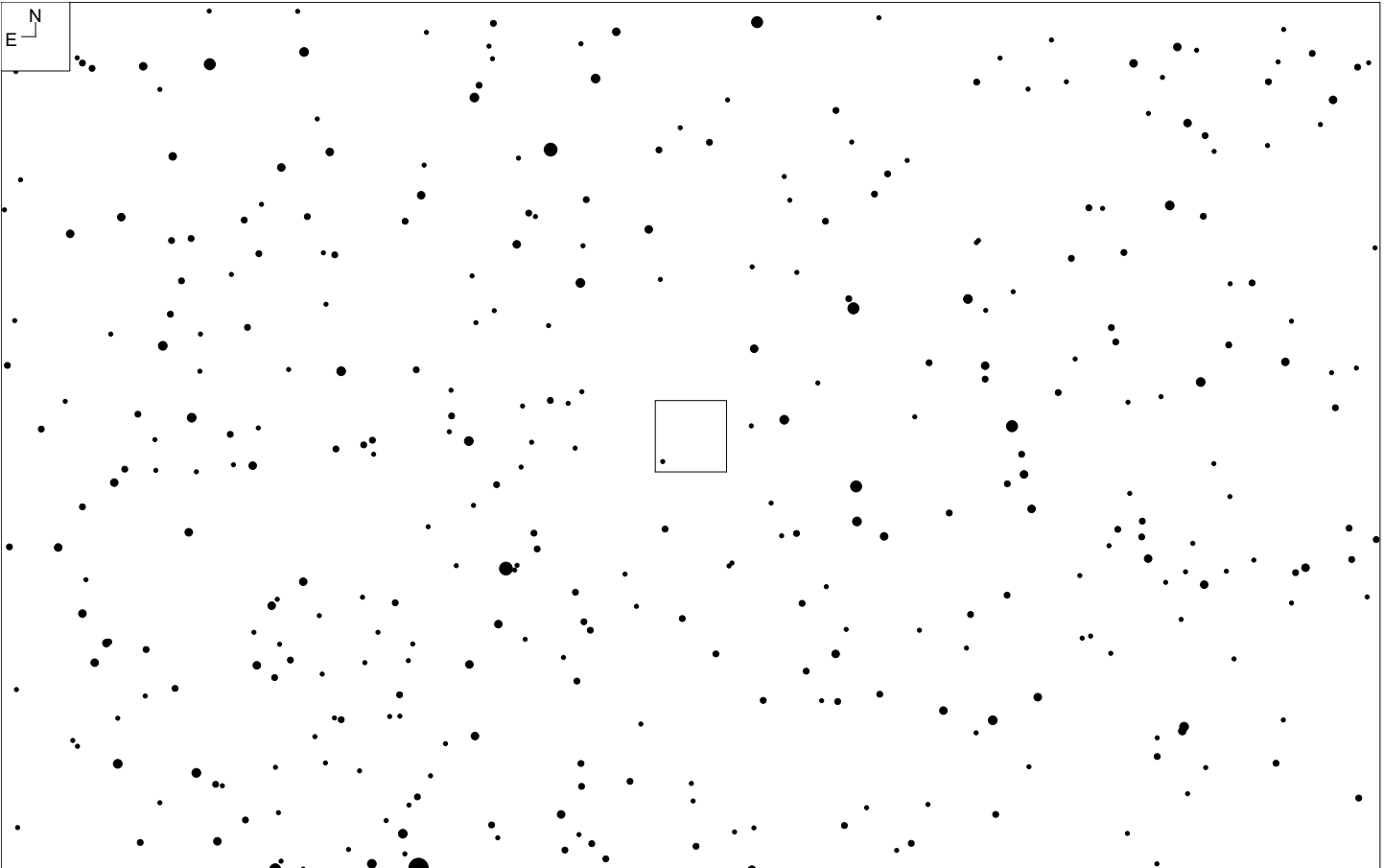
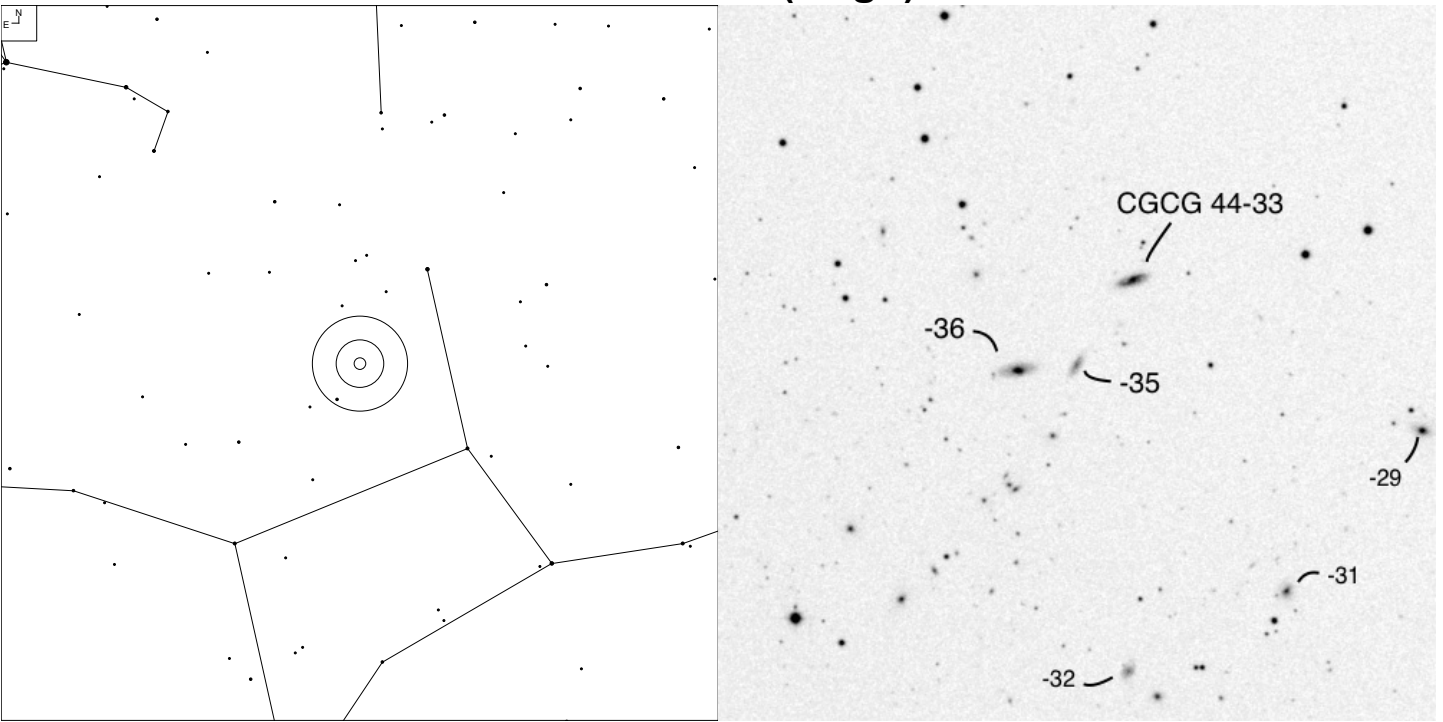
Miles Paul trio

NGC 4933A (Virgo)



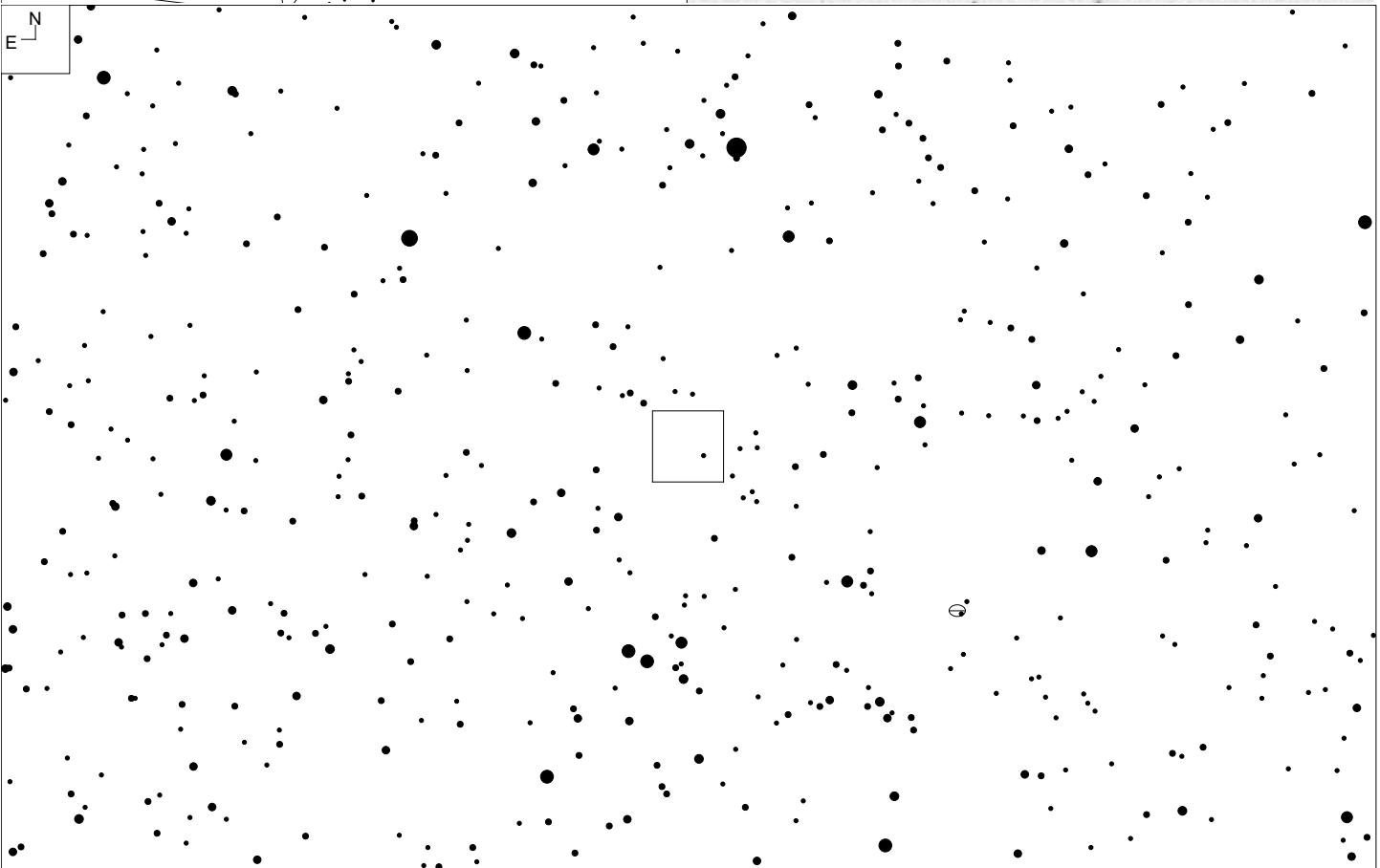
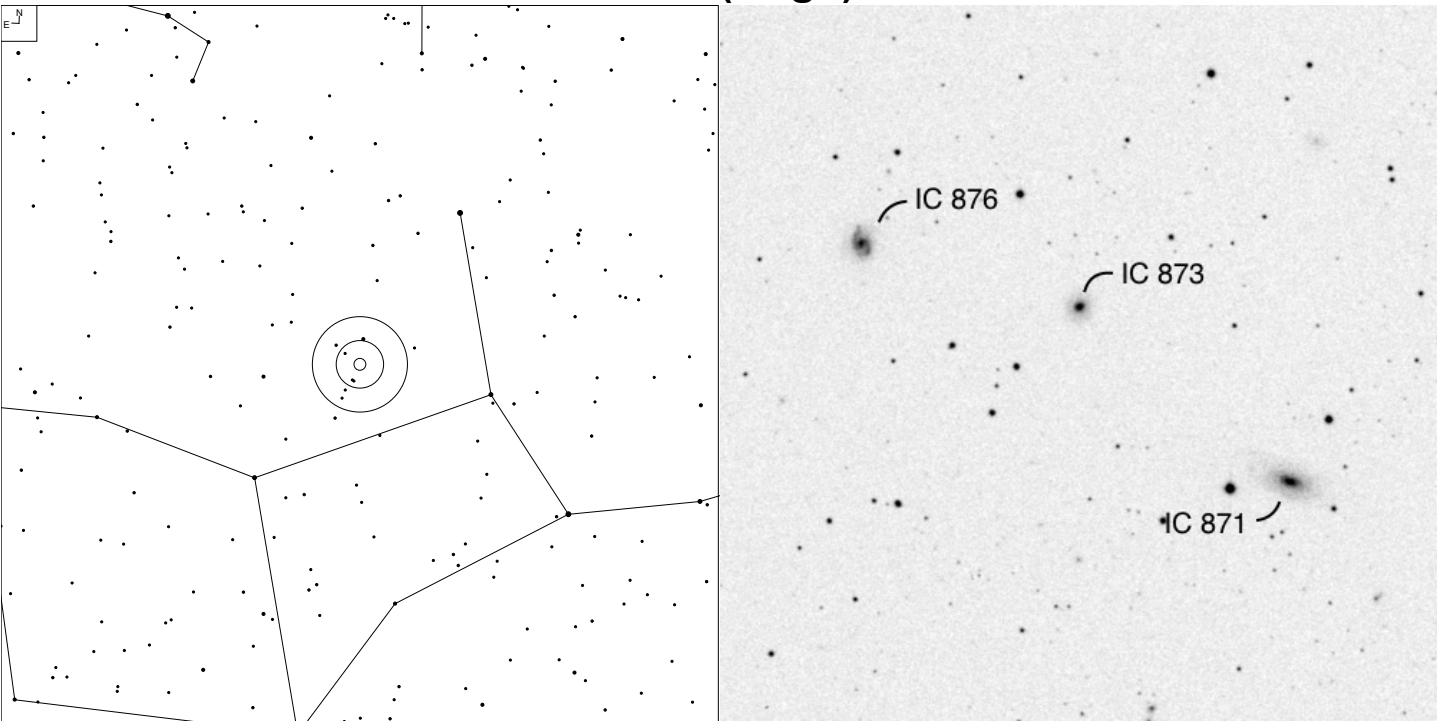
Object	RA	Dec	Mag	Size
NGC 4933A	13 03 56.8	-11 29 52	12.7p	1.8 x 1.1'
NGC 4933B			13.4	1.4 x 0.7'
NGC 4933C			18.5	0.5 x 0.5'
IC 4134			16.1	1.0 x 0.8'

CGCG 44-33 (Virgo)



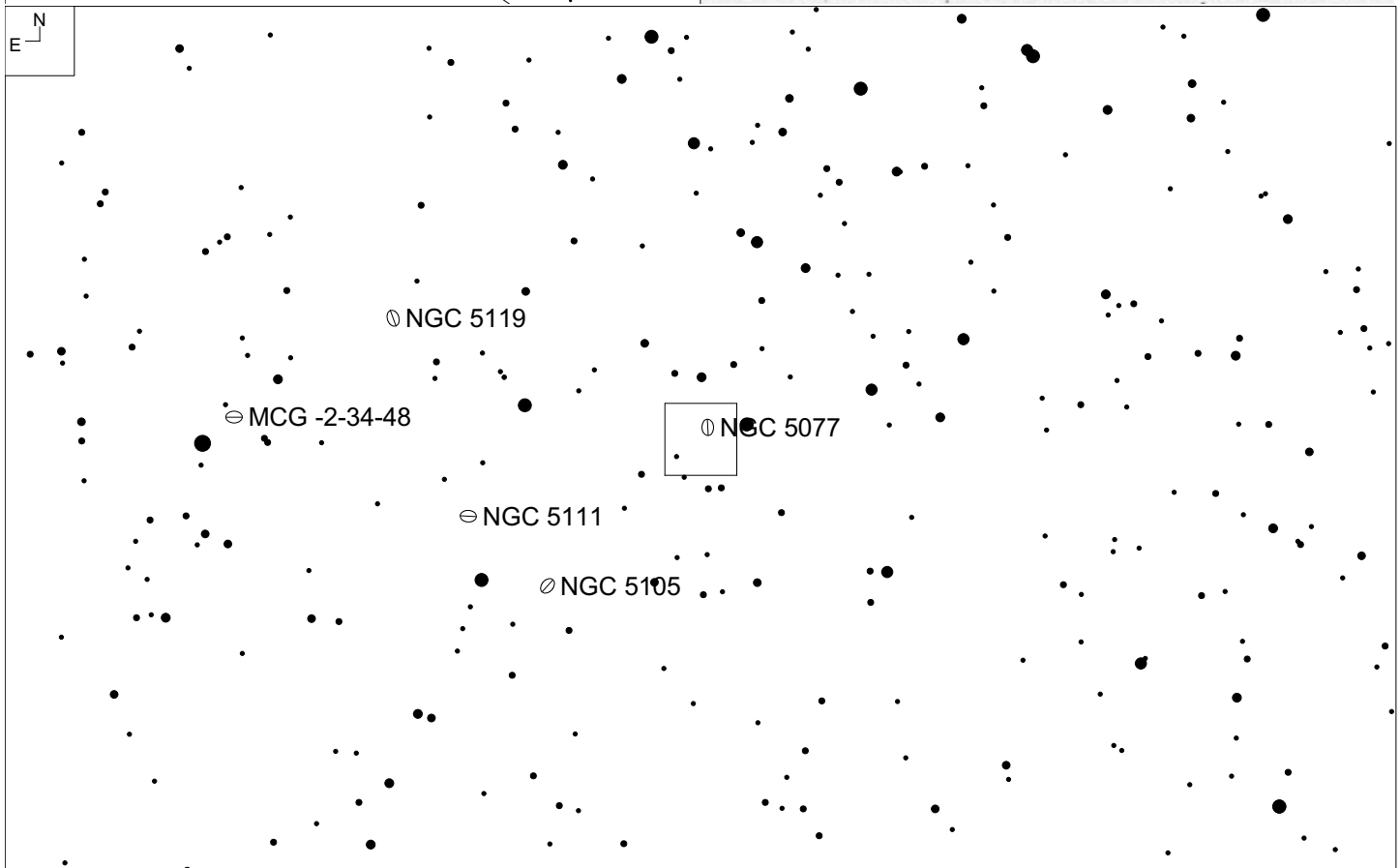
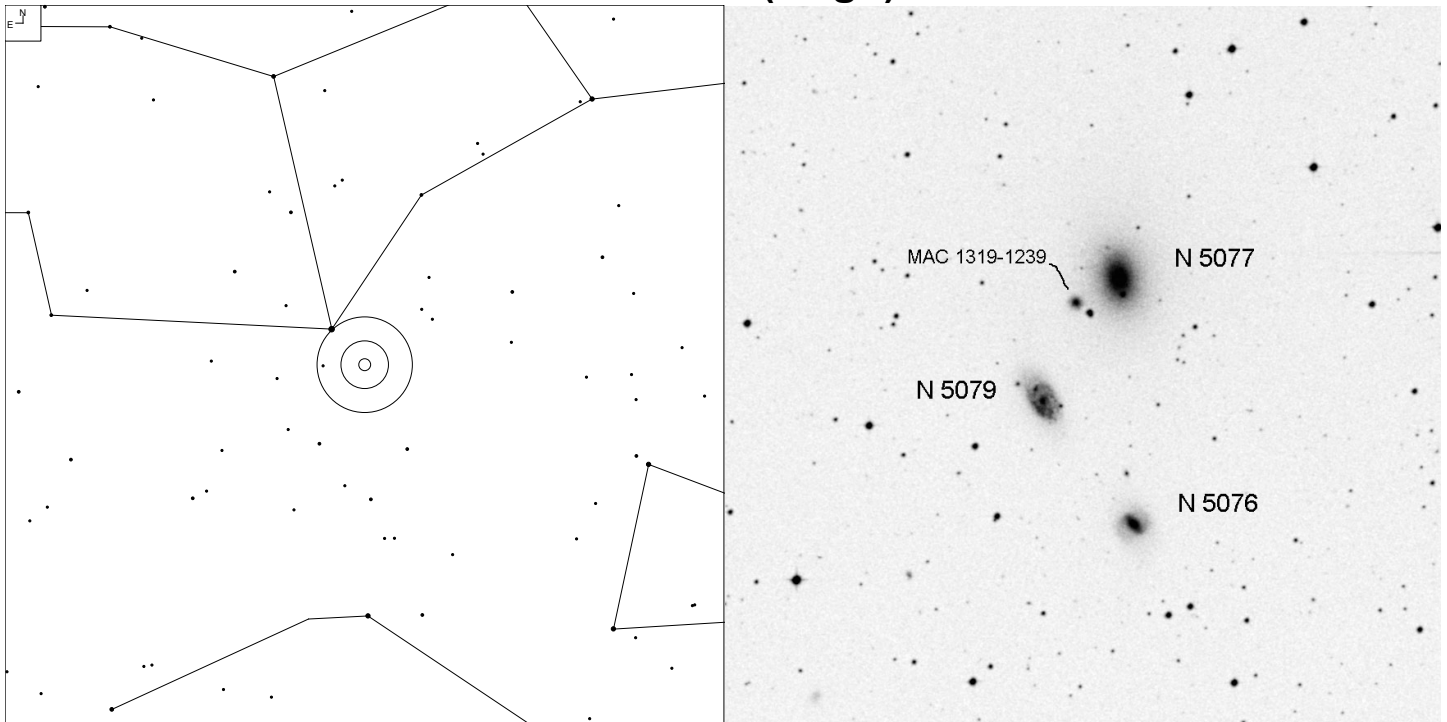
Object	RA	Dec	Mag	Size
CGCG 44-33	13 13 44.5	+06 59 31	15.1	0.6 x 0.2'
CGCG 44-35			15.4	0.5 x 0.3'
CGCG 44-36			15.1	0.8 x 0.3'

IC 871 (Virgo)



Object (KTG 46)	RA	Dec	Mag	Size
IC 871	13 17 58.6	+04 24 12	14.2p	1.6 x 0.7'
IC 873			15.3	0.4 x 0.4'
IC 876			14.9	0.7 x 0.4'

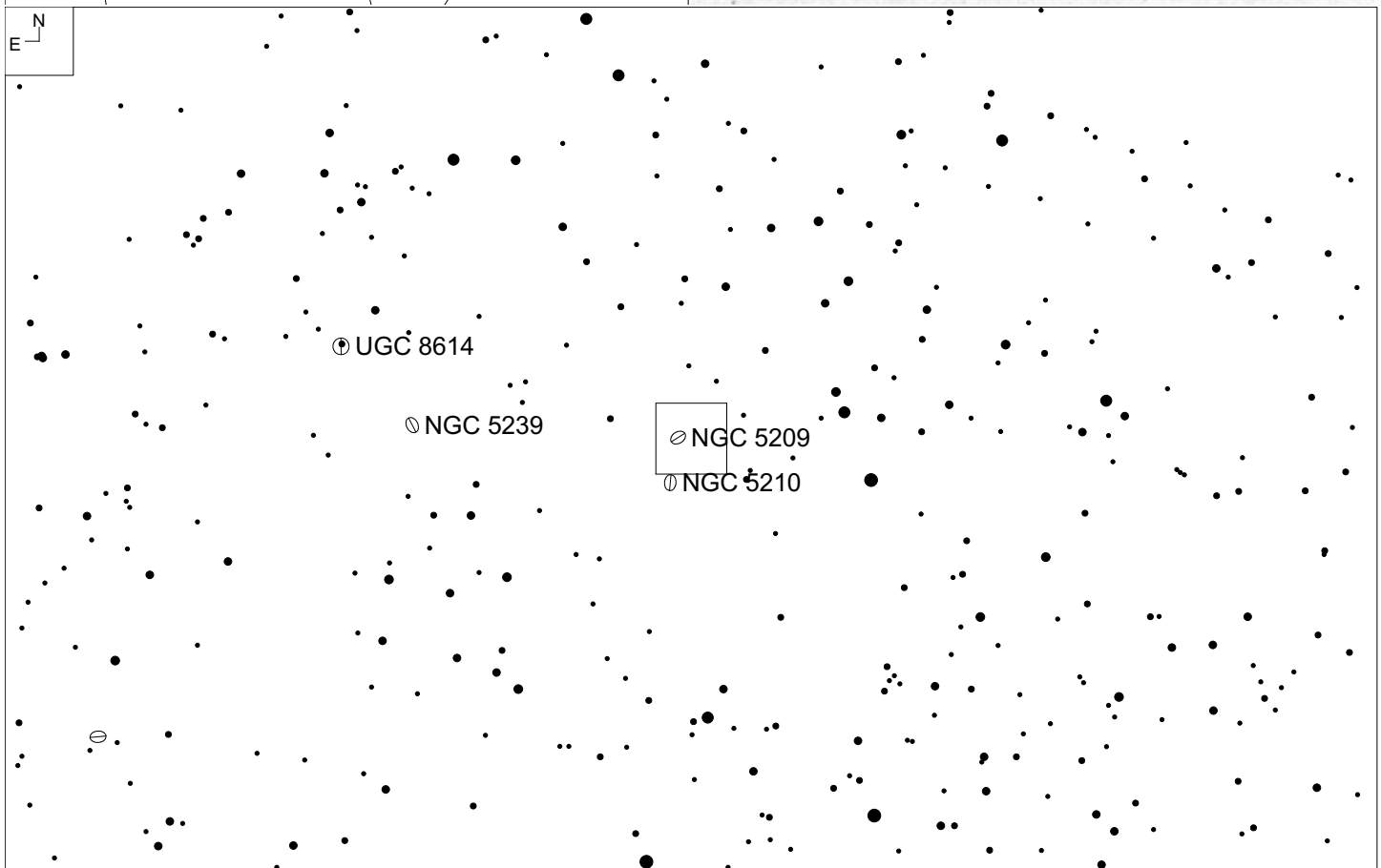
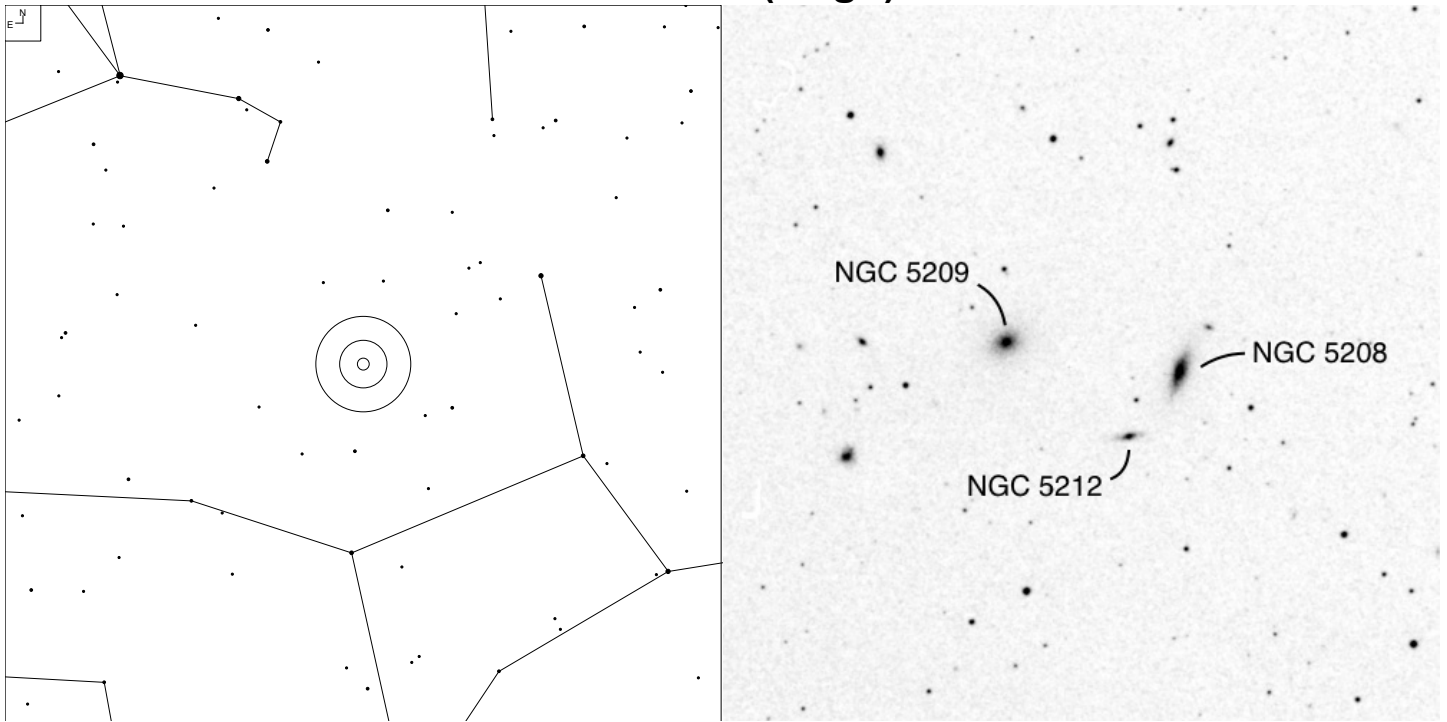
NGC 5077 (Virgo)



Object	RA	Dec	Mag	Size
NGC 5077	13 19 31.8	-12 39 26	11.3v	2.8 x 2.3'
NGC 5076			14.0	1.0 x 0.9'
NGC 5079			13.8	2.2 x 1.1'

Miles Paul and Astronomical League trio

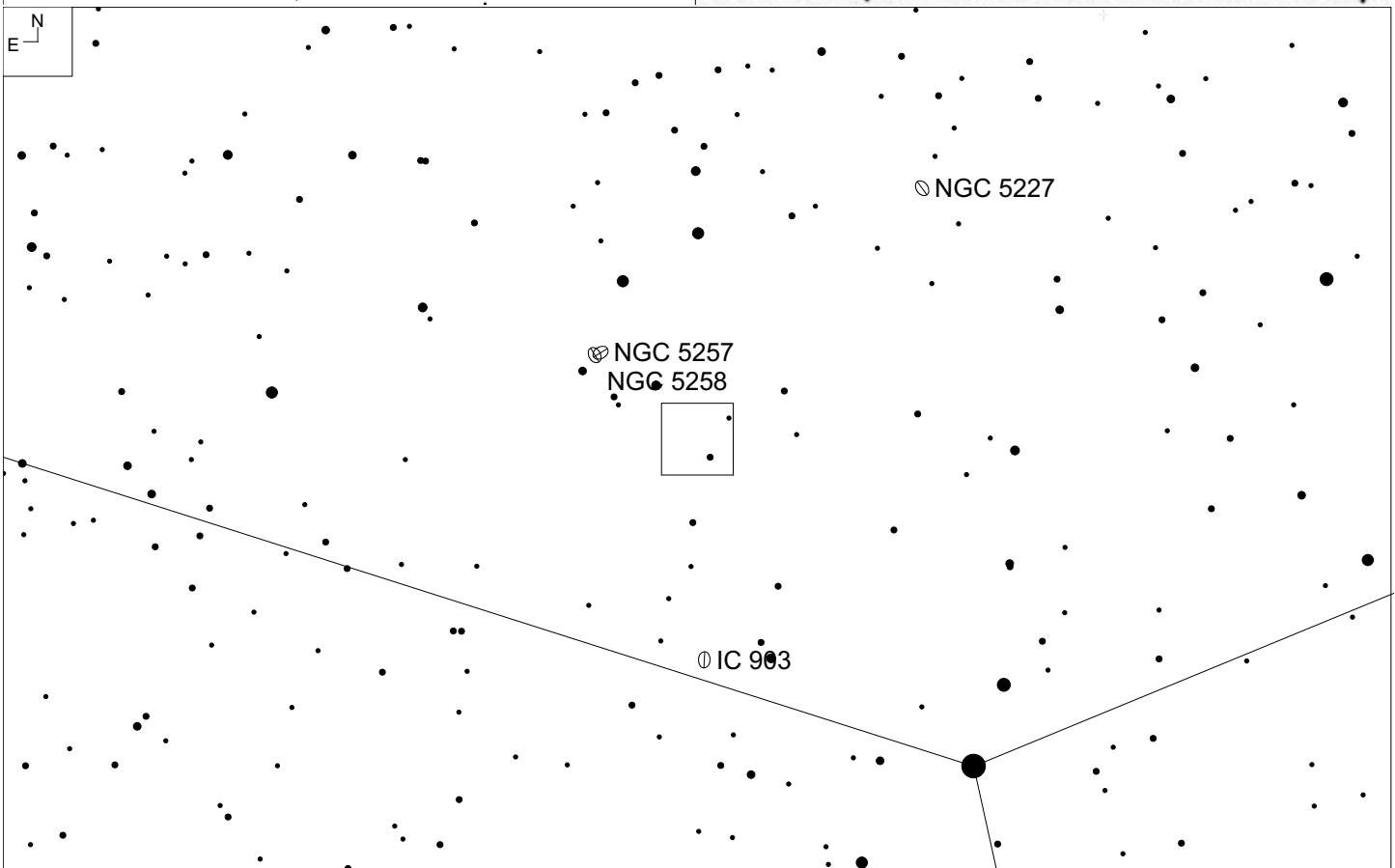
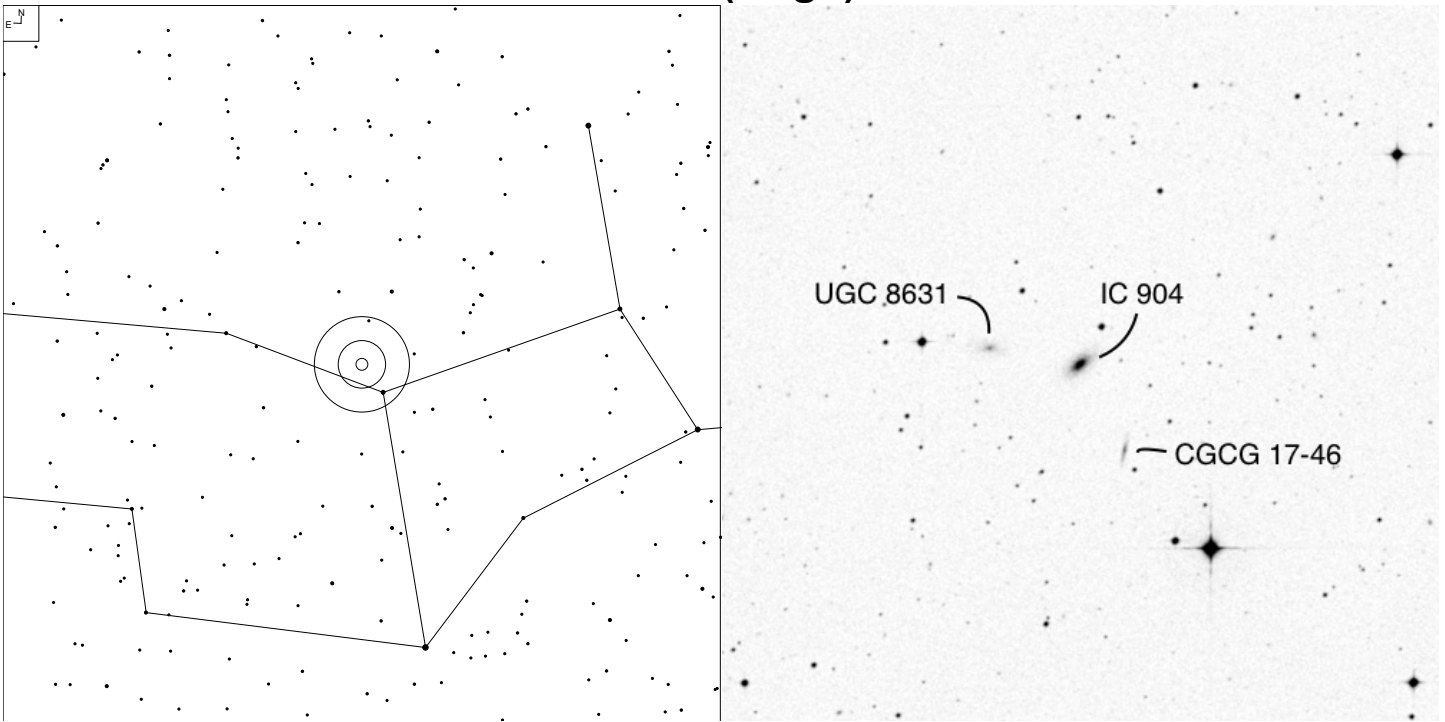
NGC 5209 (Virgo)



Object	RA	Dec	Mag	Size
NGC 5209	13 32 42.6	+07 19 37	14.0p	1.2 x 1.0'
NGC 5212			15.5	0.6 x 0.2'
NGC 5208			14.1p	1.6 x 0.5'

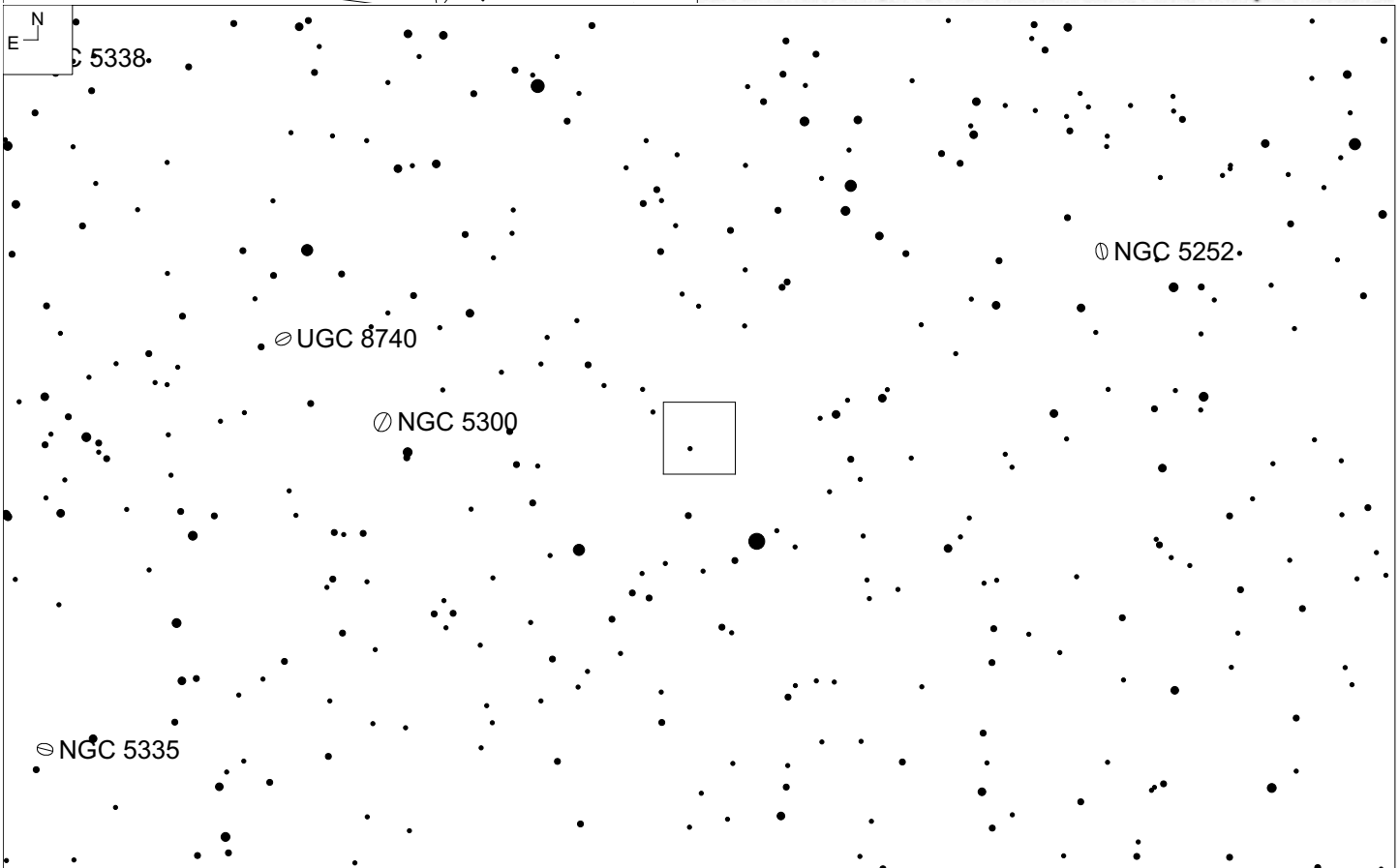
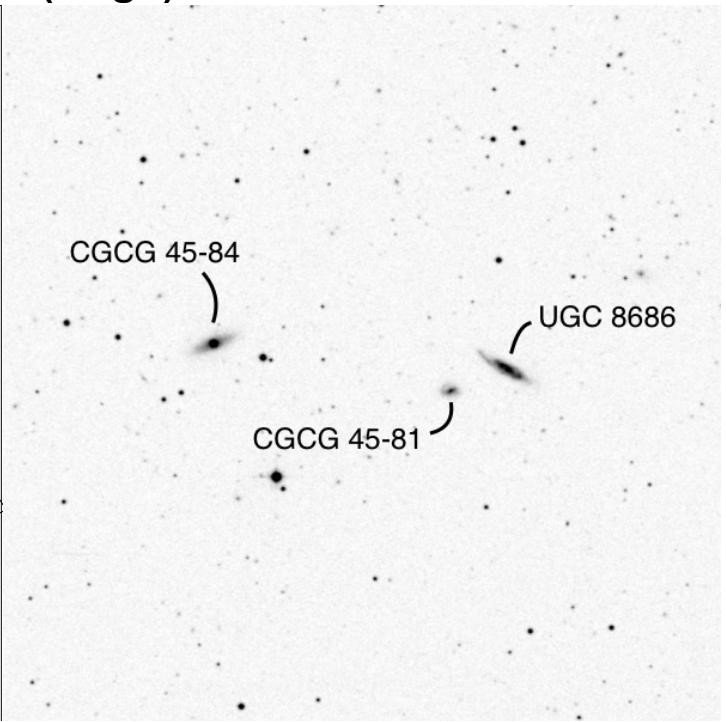
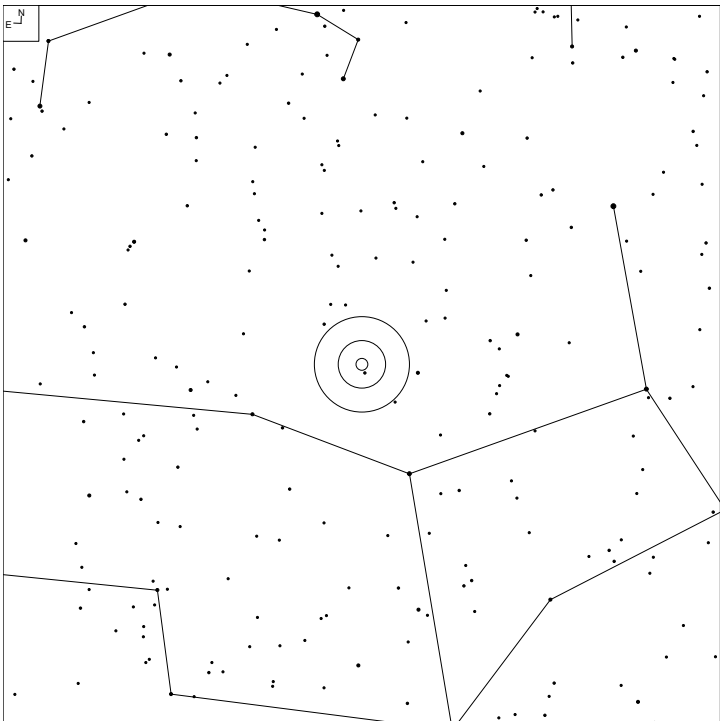
Miles Paul and Astronomical League trio

IC 904 (Virgo)



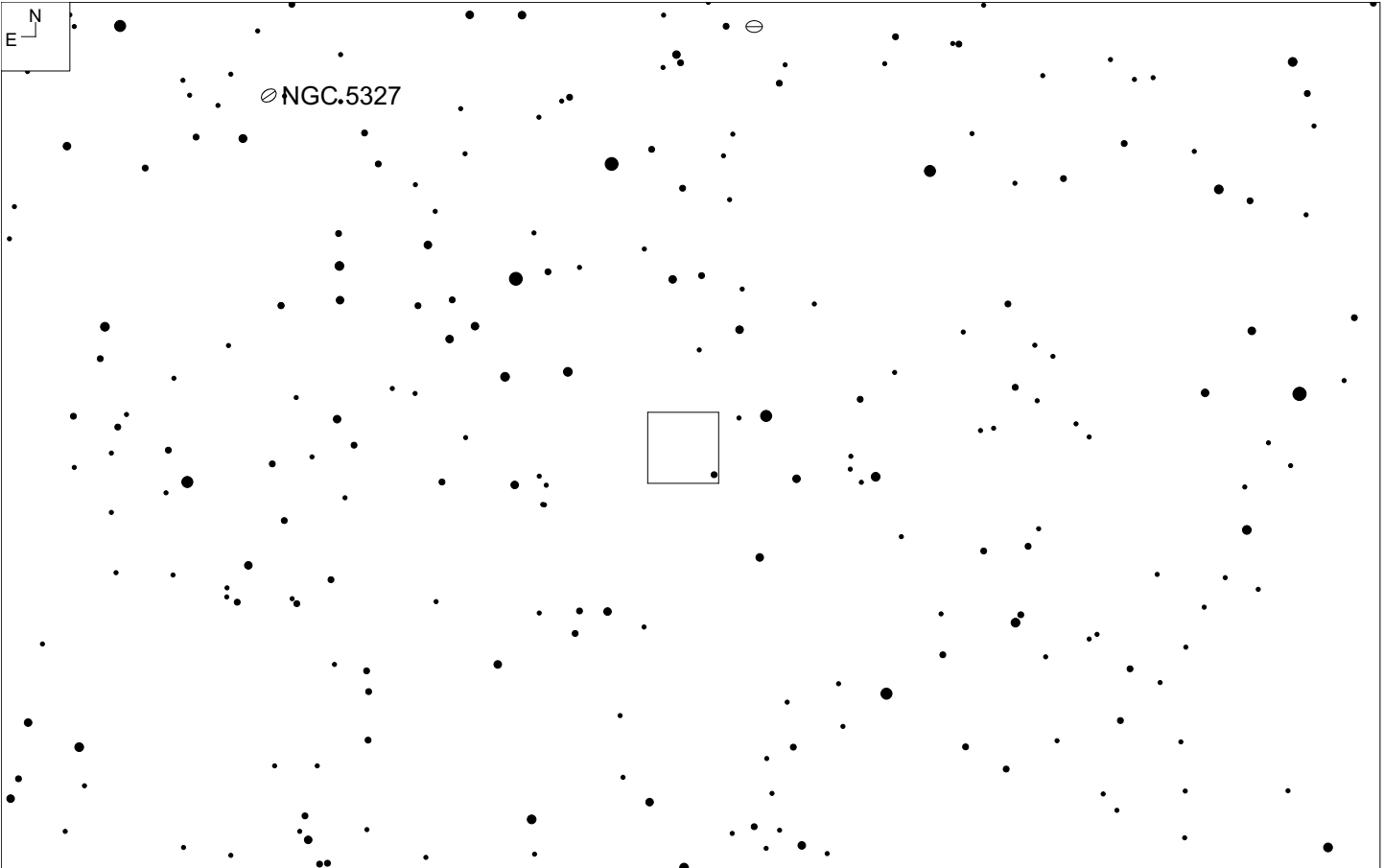
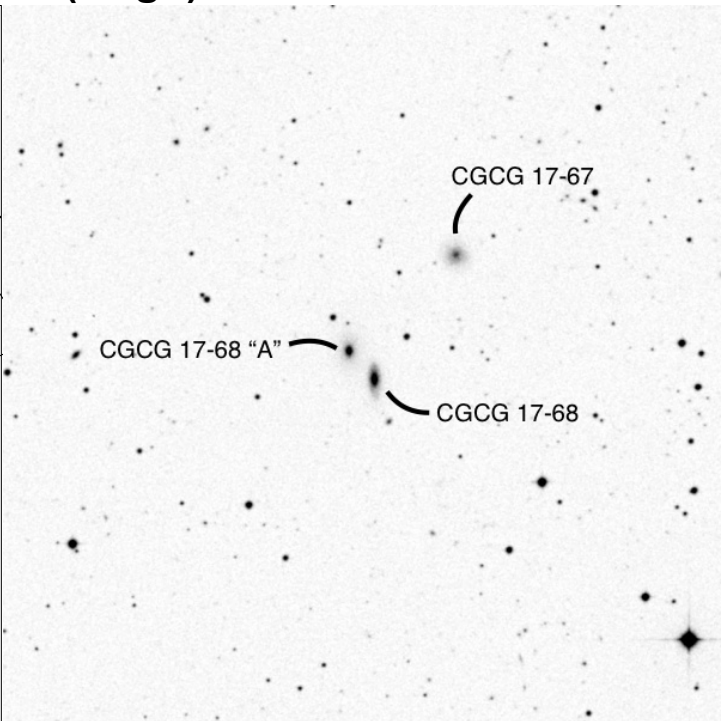
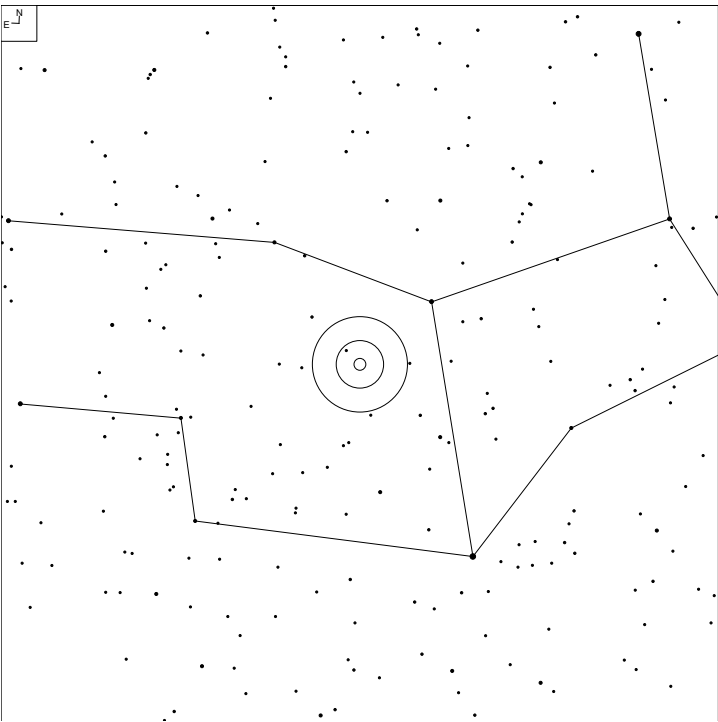
Object (KTG 47)	RA	Dec	Mag	Size
IC 904	13 38 32.2	+00 32 24	14.6p	1.6 x 0.6'
UGC 8631			14.8p	1.1 x 0.7'
CGCG 17-46			15.9	1.0 x 0.2'

UGC 8686 (Virgo)



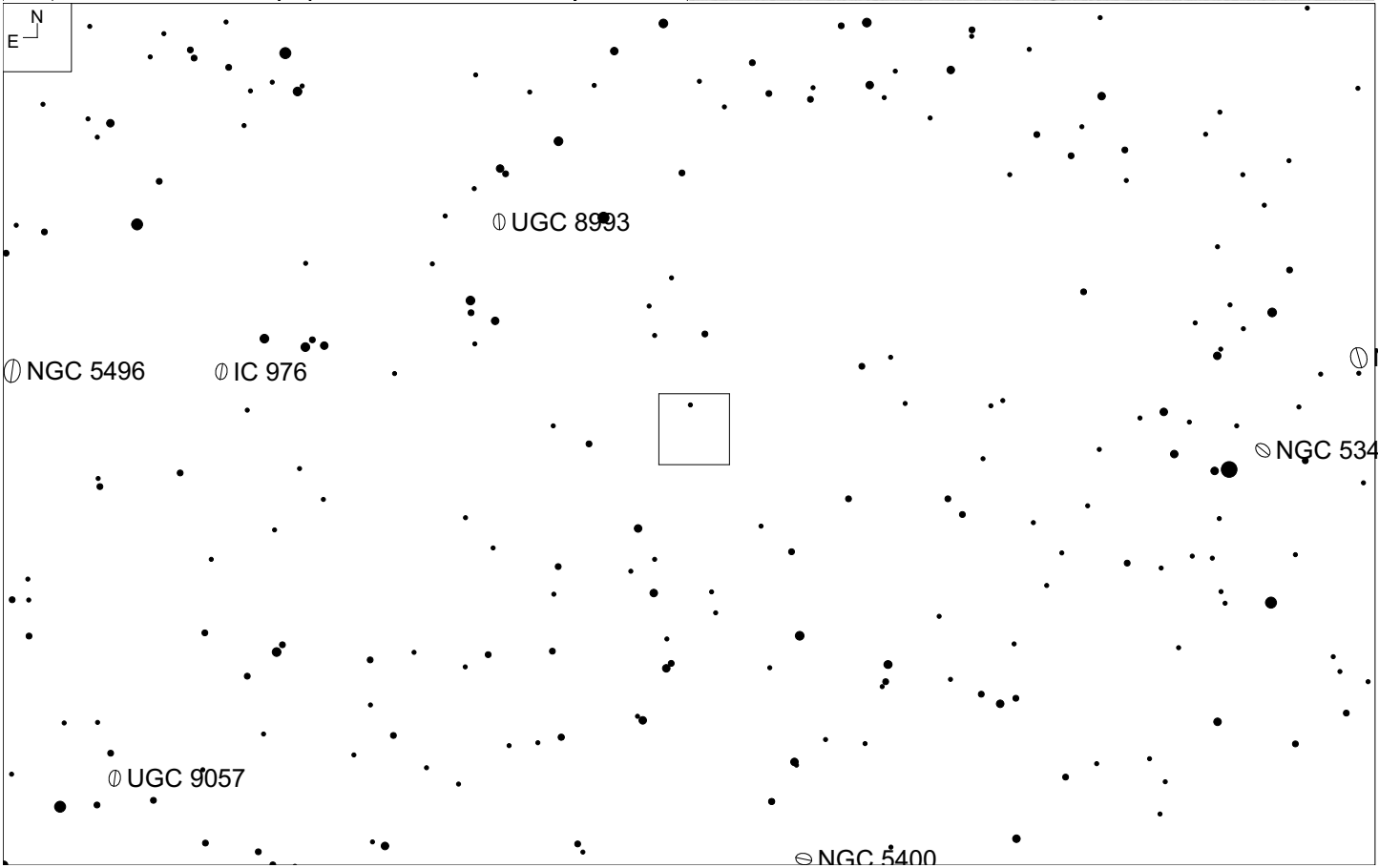
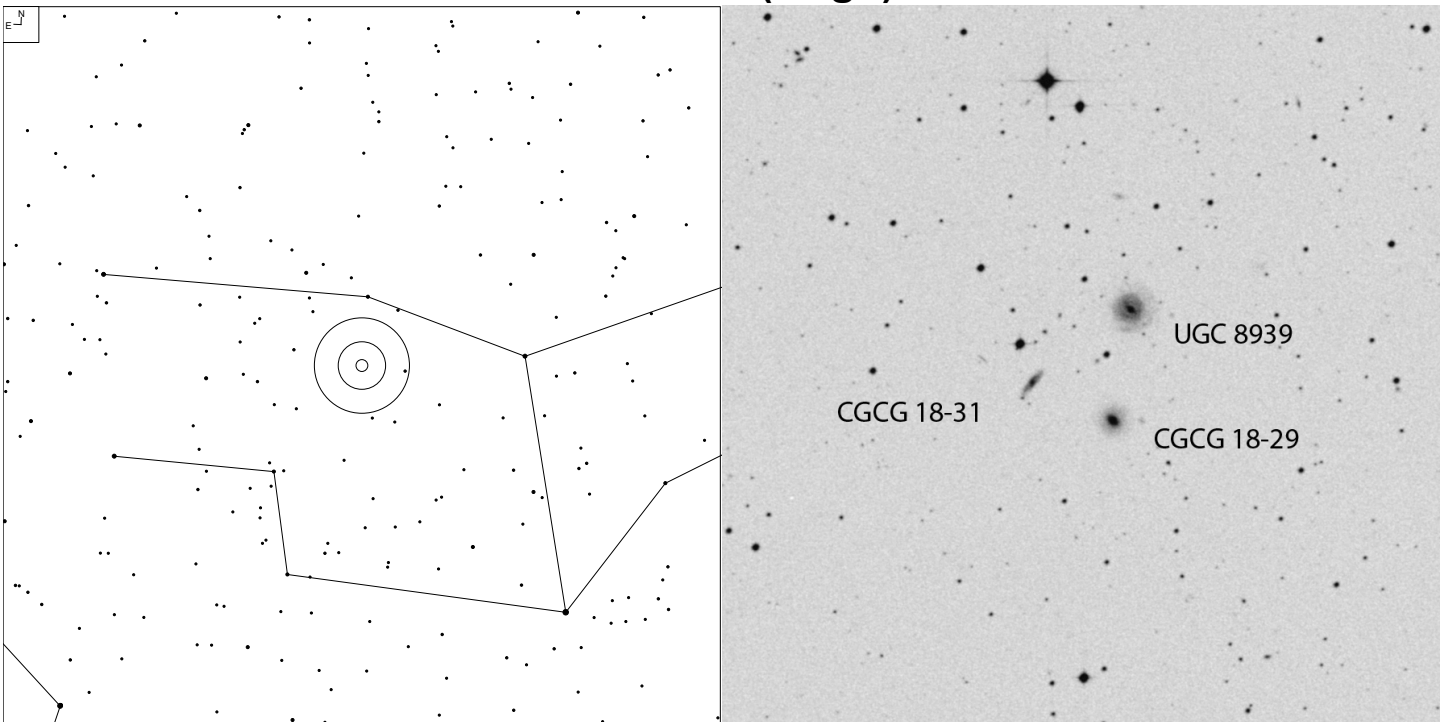
Object (KTG 48)	RA	Dec	Mag	Size
UGC 8686	13 43 40.2	+03 53 48	14.9	1.5 x 0.4'
CGCG 45-81			15.6	0.4 x 0.3'
CGCG 45-84			15.1	1.1 x 0.4'

CGCG 17-67 (Virgo)



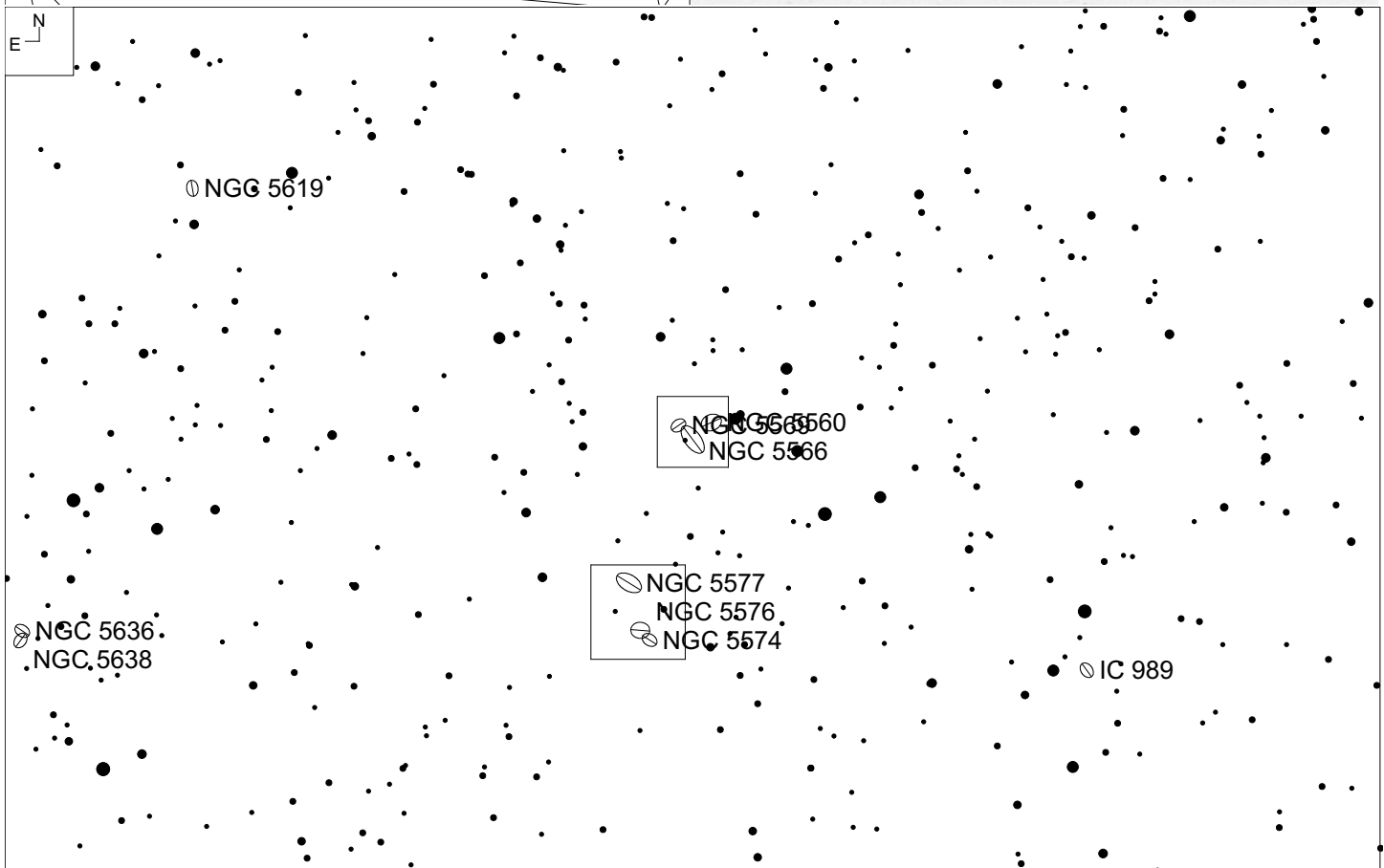
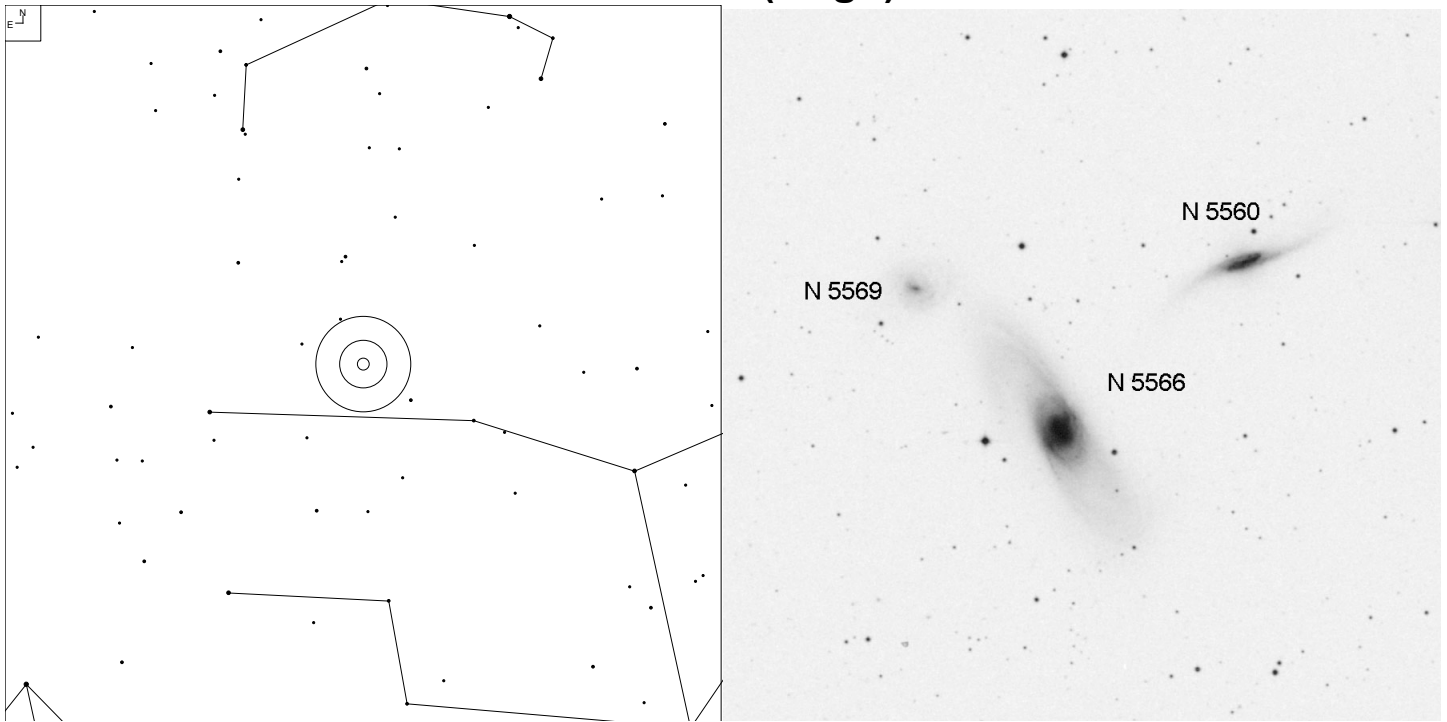
Object (KTG 49)	RA	Dec	Mag	Size
CGCG 17-67	13 46 13.3	-03 23 05	15.4	0.8 x 0.8'
CGCG 17-68			14.8	0.9 x 0.3'
CGCG 17-68 "A"		NED	15.3g*	

UGC 8939 (Virgo)



Object (KTG 52)	RA	Dec	Mag	Size
UGC 8939	14 02 04.8	-01 21 28	14.1p	1.2 x 1.1'
CGCG 18-29			15.3	0.5 x 0.5'
CGCG 18-31			15.7	0.8 x 0.2'

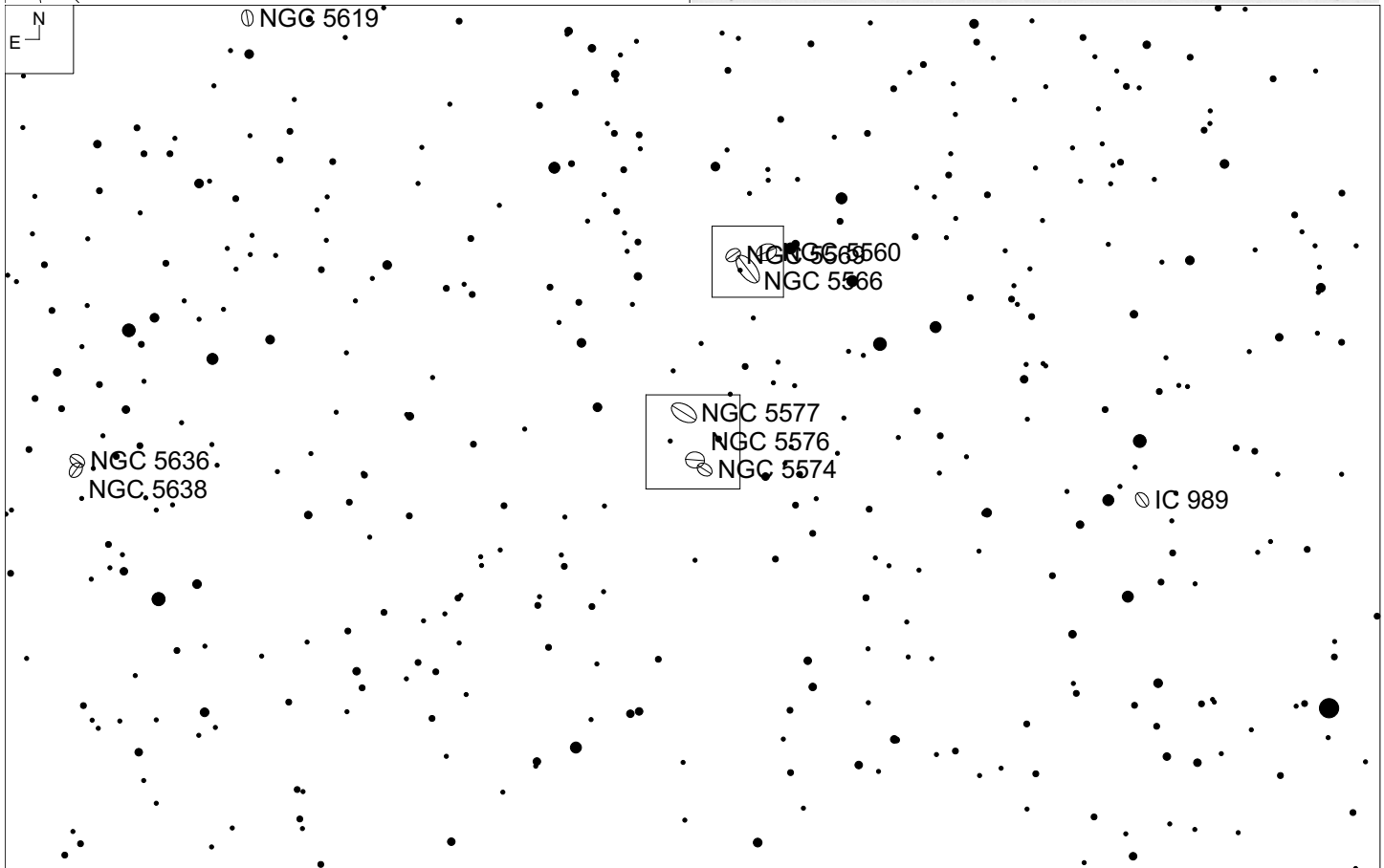
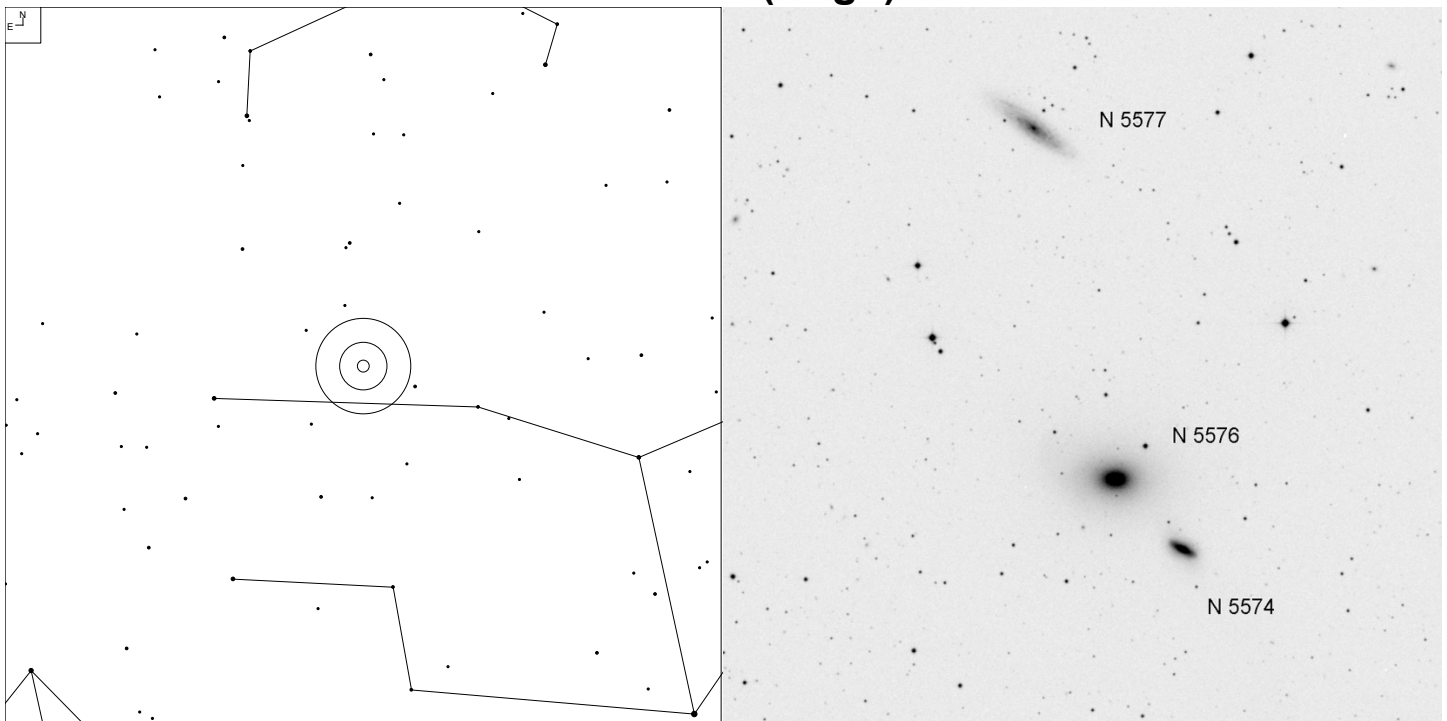
NGC 5566 (Virgo)



Object (KTG 54)	RA	Dec	Mag	Size
NGC 5566	14 20 20.0	+03 56 01	11.5b	6.7 x 2.1'
NGC 5560			12.4v	4.3 x 1.2'
NGC 5569			13.9p	2.5 x 1.3'

Miles Paul trio

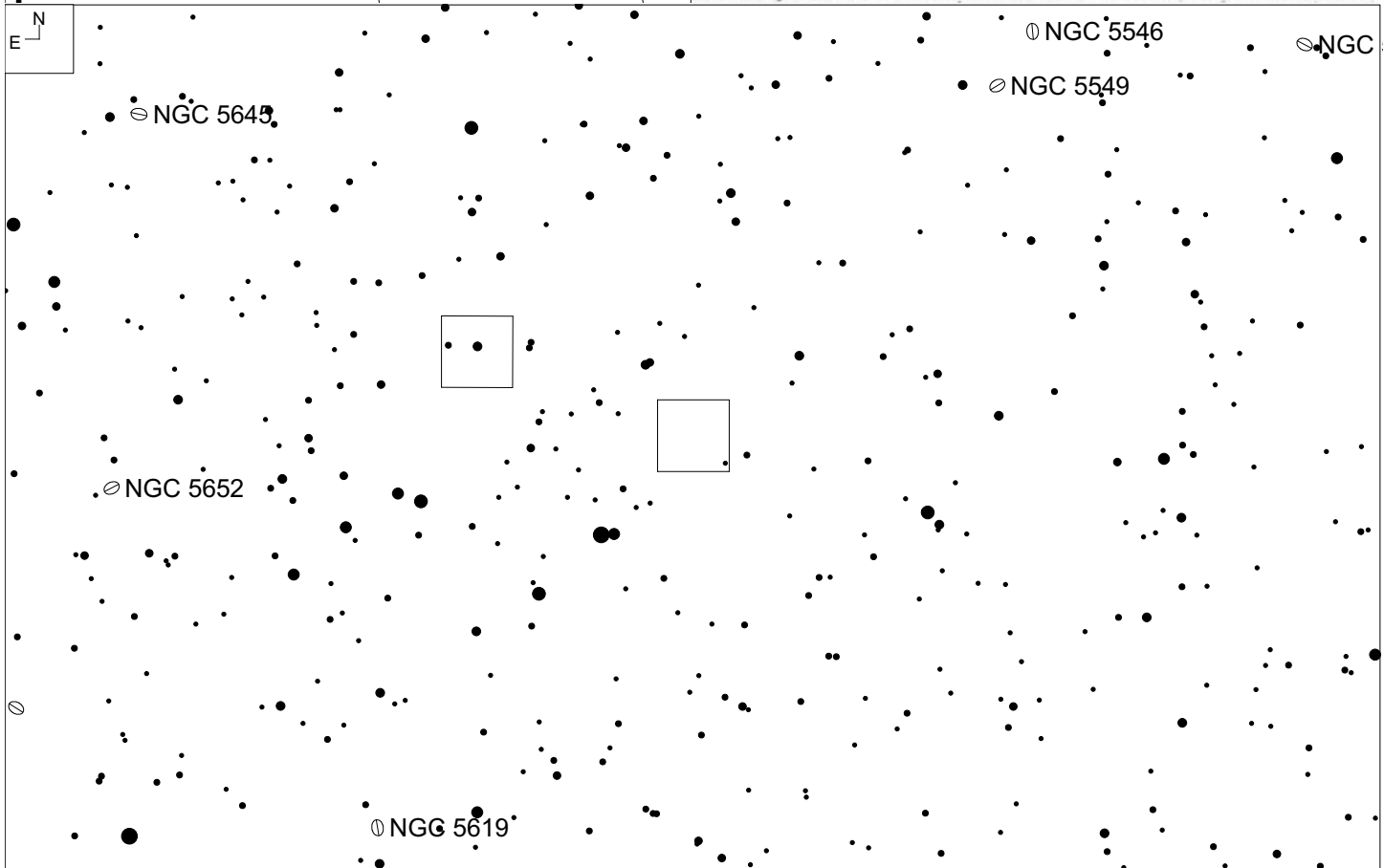
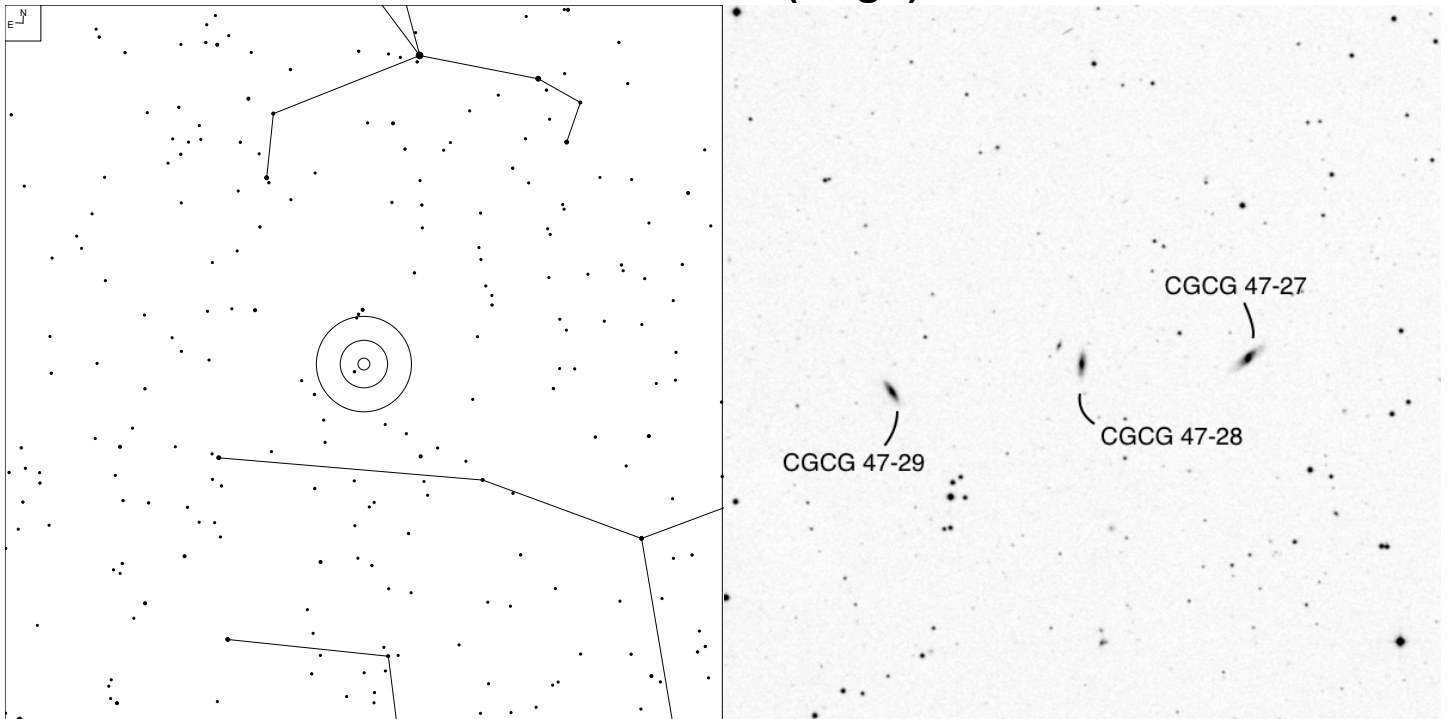
NGC 5576 (Virgo)



Object (KTG 55)	RA	Dec	Mag	Size
NGC 5576	14 21 03.8	+03 16 16	11.0v	3.9 x 2.6'
NGC 5574			12.4v	2.2 x 1.3'
NGC 5577			13.1p	5.7 x 1.0'

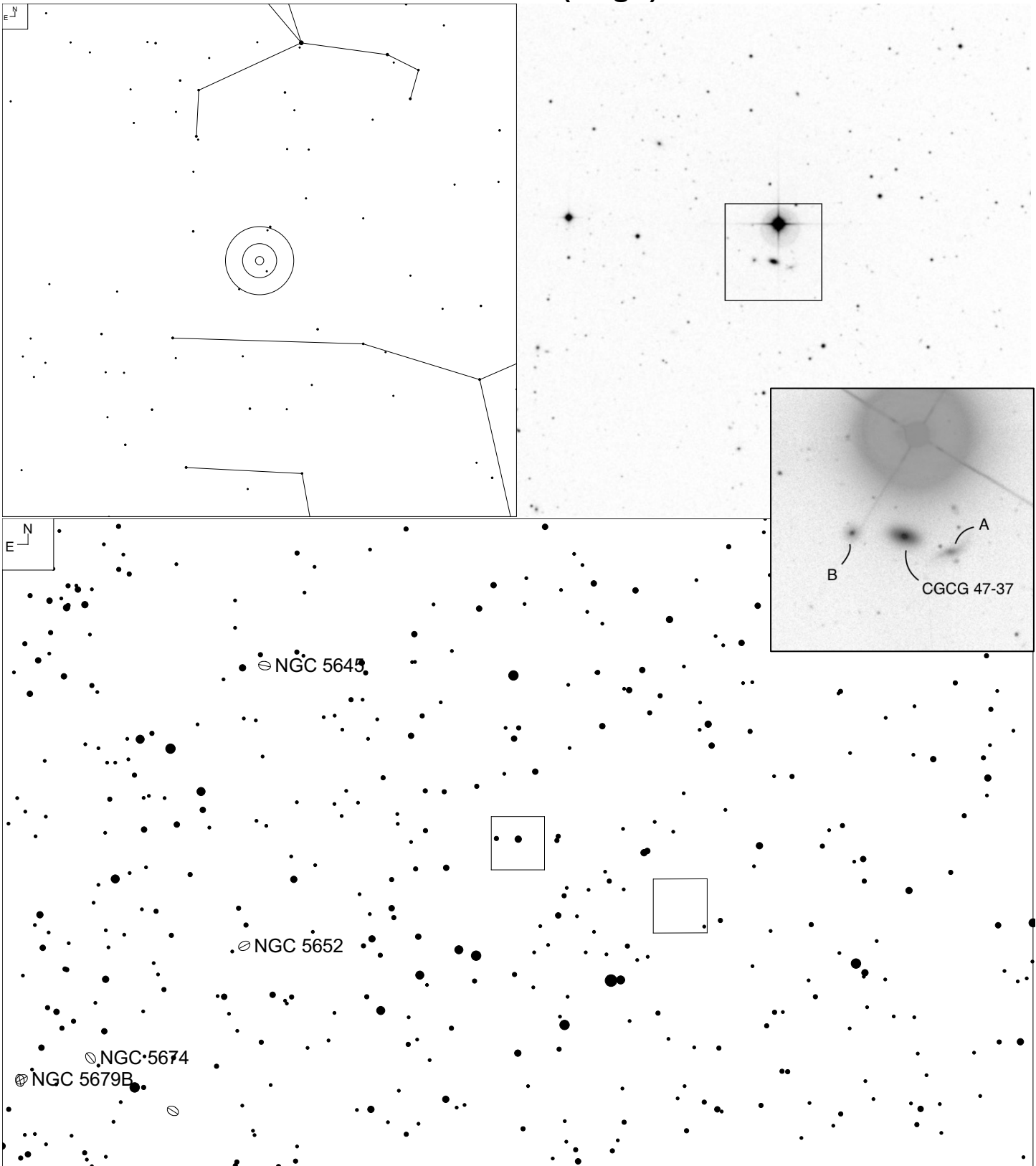
Miles Paul trio

CGCG 47-27 (Virgo)



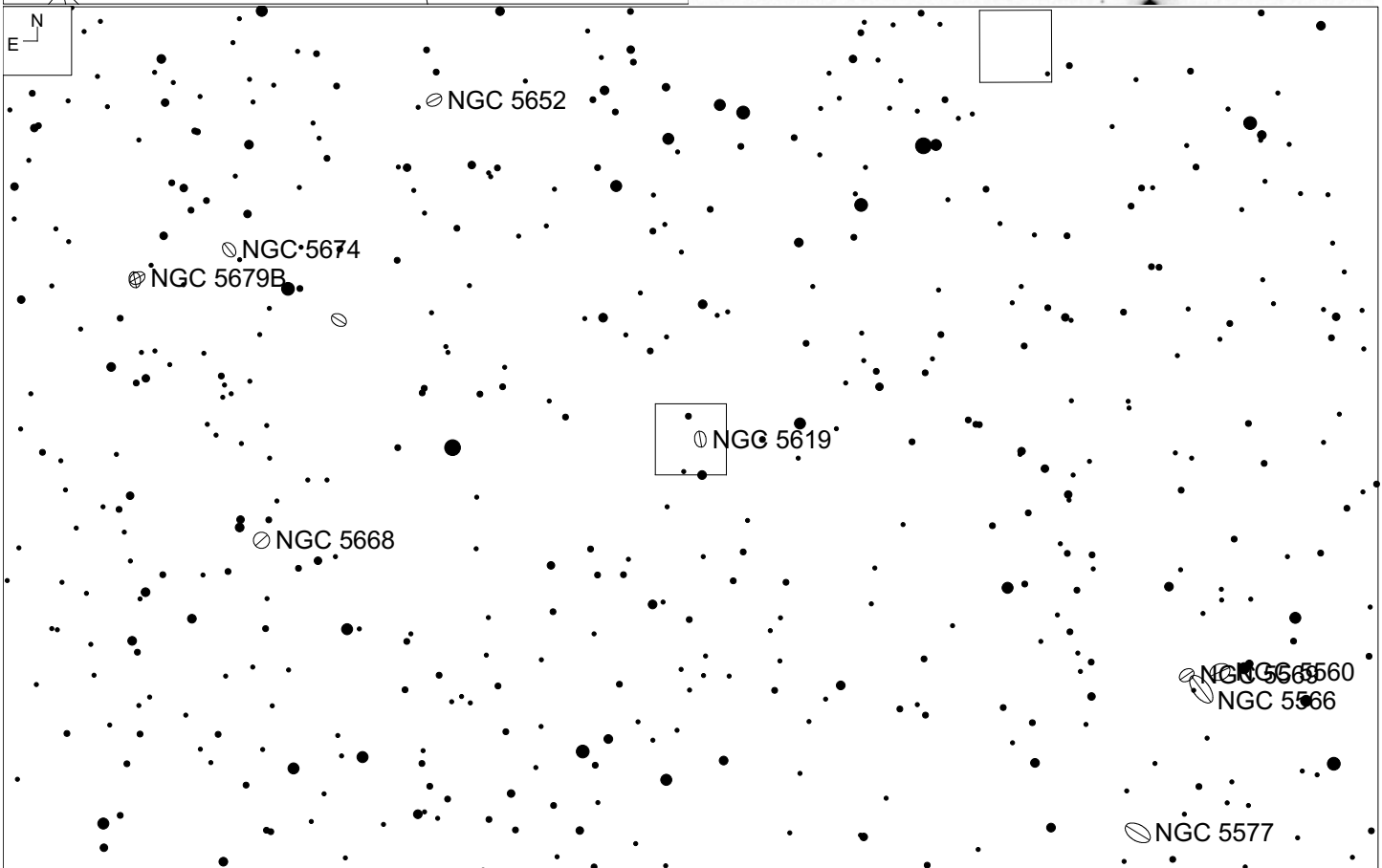
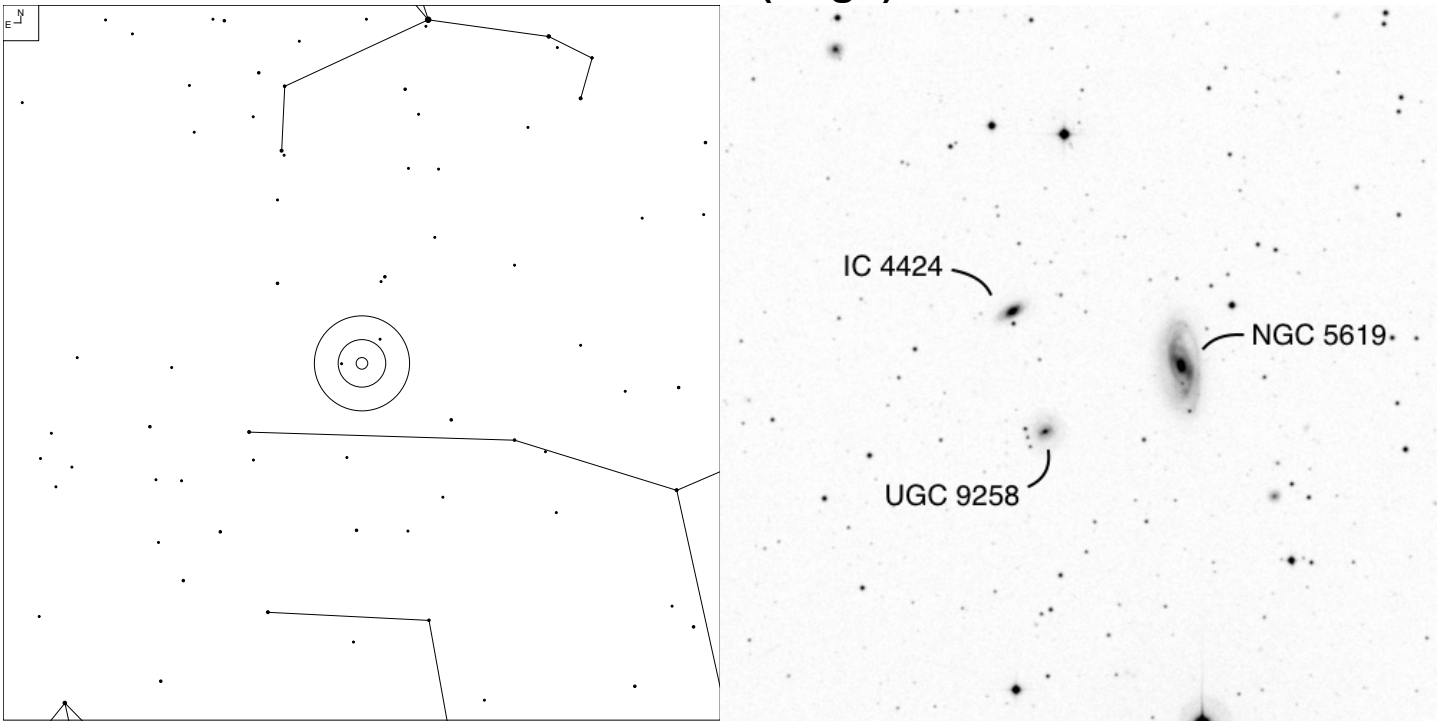
Object (KTG 56)	RA	Dec	Mag	Size
CGCG 47-27	14 22 40.2	+06 10 00	15.5	0.7 x 0.2'
CGCG 47-28			15.6	0.6 x 0.2'
CGCG 47-29			15.6	0.6 x 0.2'

CGCG 47-37 (Virgo)



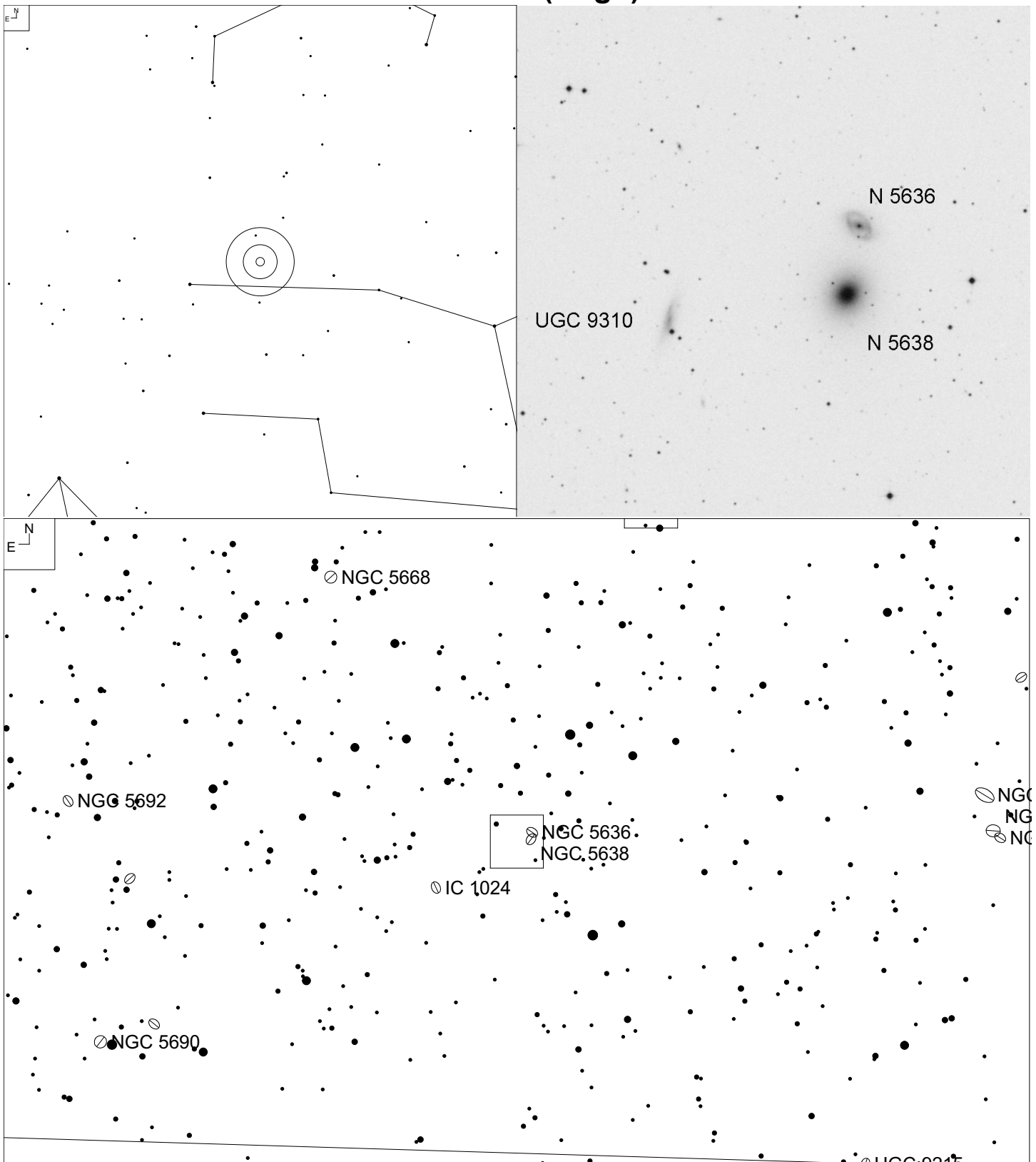
Object	RA	Dec	Mag	Size
CGCG 47-37	14 25 55.6	+06 27 21	15.1	0.4 x 0.2'
A			17.6g*	
B			17.7g*	

NGC 5619 (Virgo)



Object (KTG 57)	RA	Dec	Mag	Size
NGC 5619	14 27 18.1	+04 48 11	13.4p	2.1 x 1.1'
IC 4424			15.0p	1.0 x 0.3'
UGC 9258			14.7p	0.8 x 0.7'

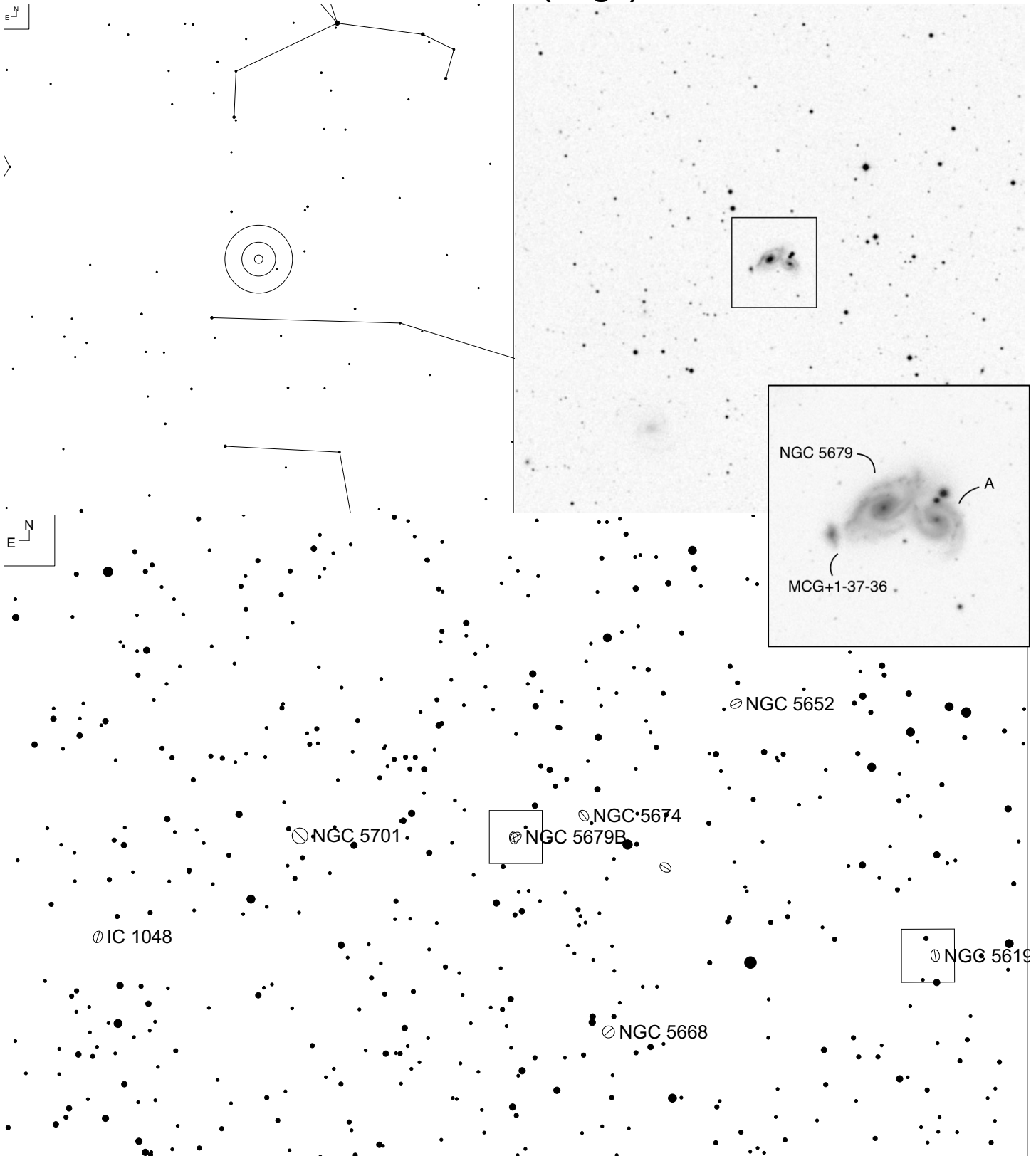
NGC 5638 (Virgo)



Object	RA	Dec	Mag	Size
NGC 5638	14 29 40.4	+03 14 00	11.2v	2.7 x 2.4'
NGC 5636			13.7p	2.0 x 1.4'
UGC 9310			14.5p	2.6 x 0.6'

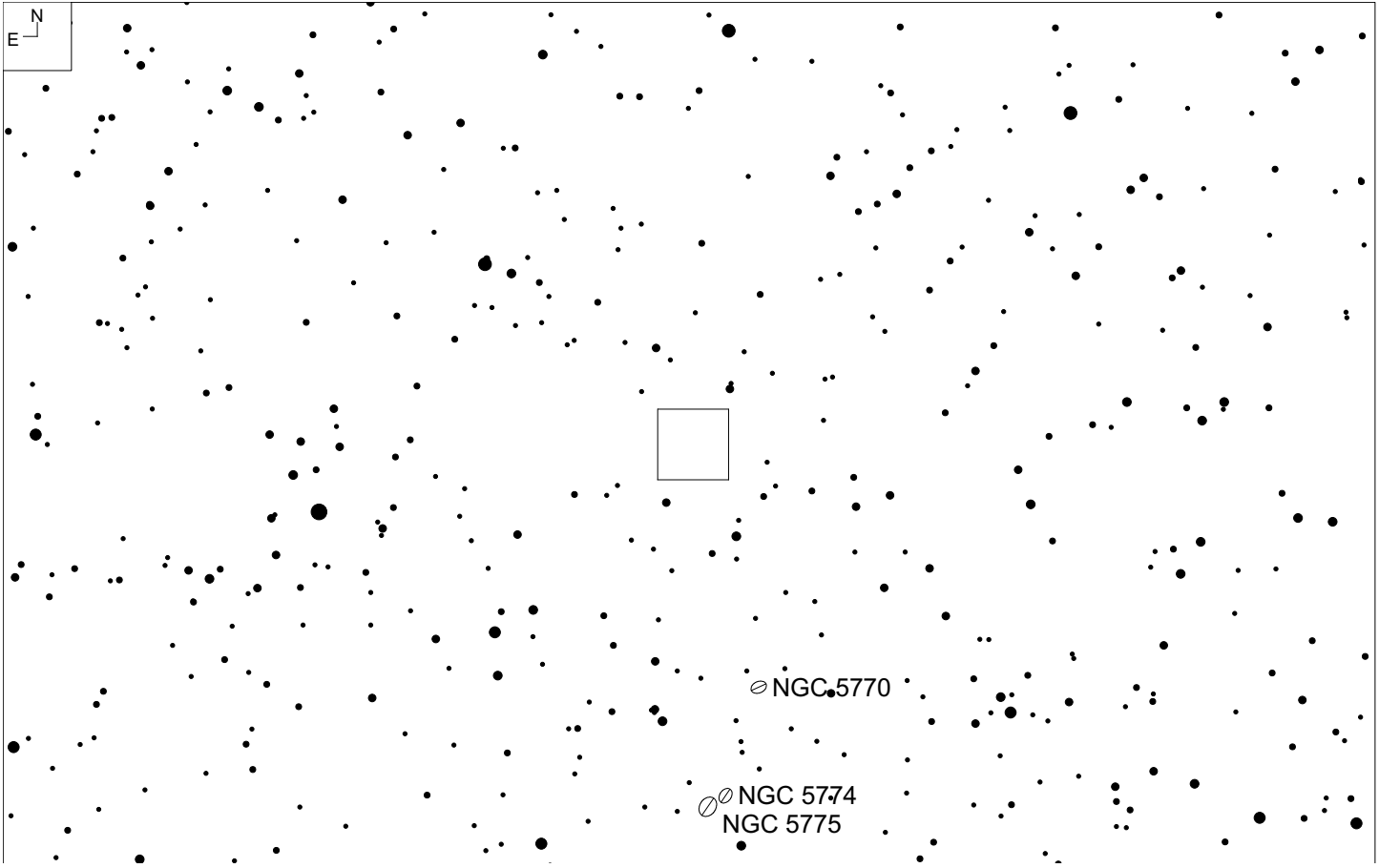
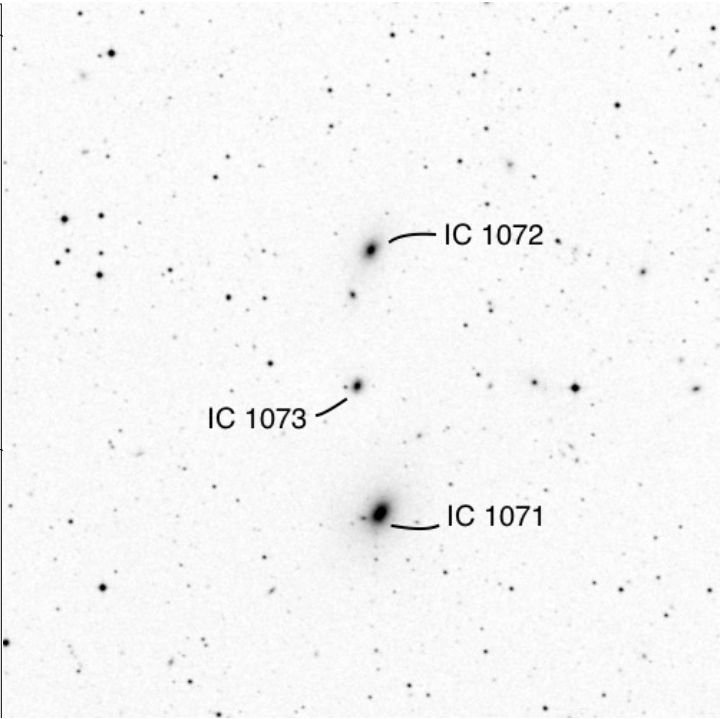
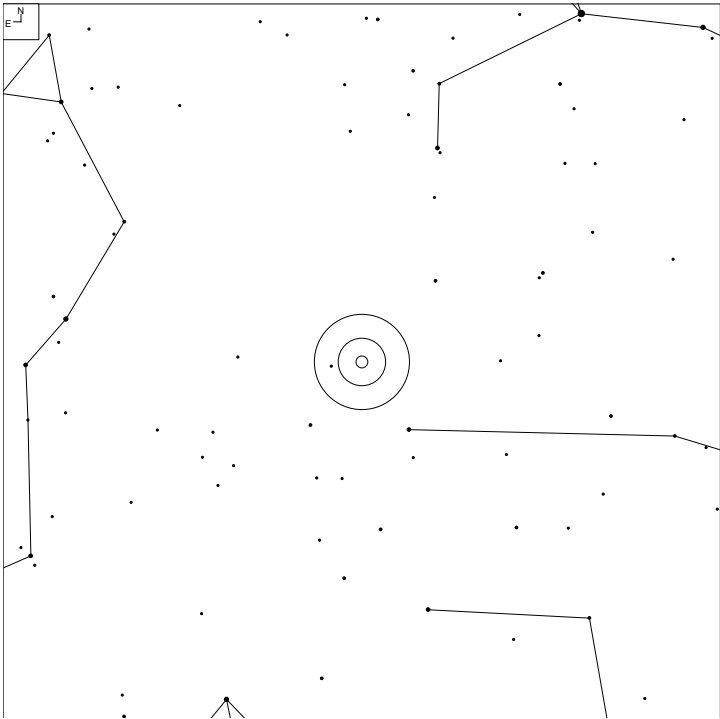
Miles Paul trio

NGC 5679 (Virgo)



Object	RA	Dec	Mag	Size
NGC 5679	14 35 08.8	+05 21 32	13.8	1.1 x 0.7'
NGC 5679A			14.5	1.3 x 0.6'
MCG+1-37-36			17.1g*	0.3 x 0.2'

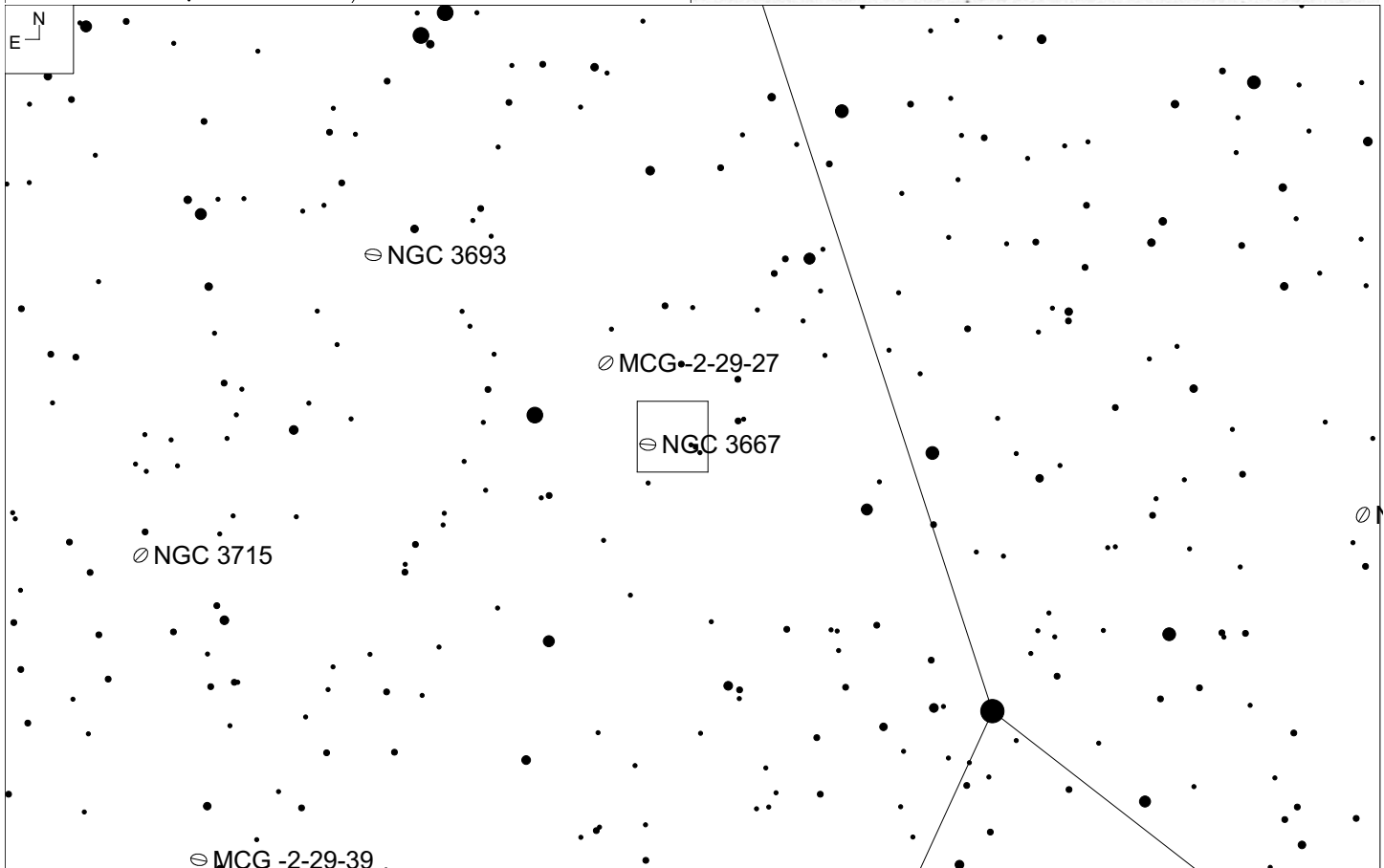
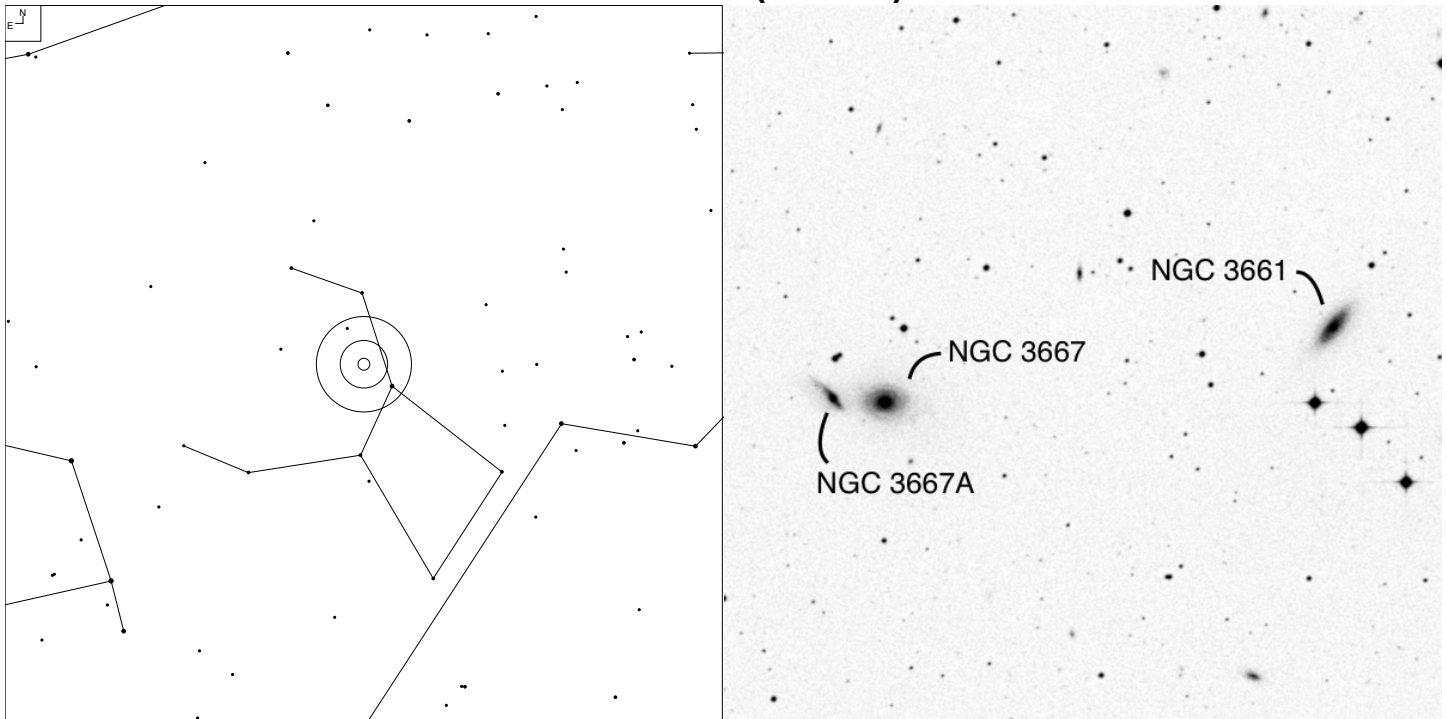
IC 1071 (Virgo)



Object	RA	Dec	Mag	Size
IC 1071	14 54 12.4	+04 45 02	14.2p	1.0 x 0.7'
IC 1072			15.3	0.7 x 0.4'
IC 1073			15.6	0.4 x 0.3'

Miles Paul trio

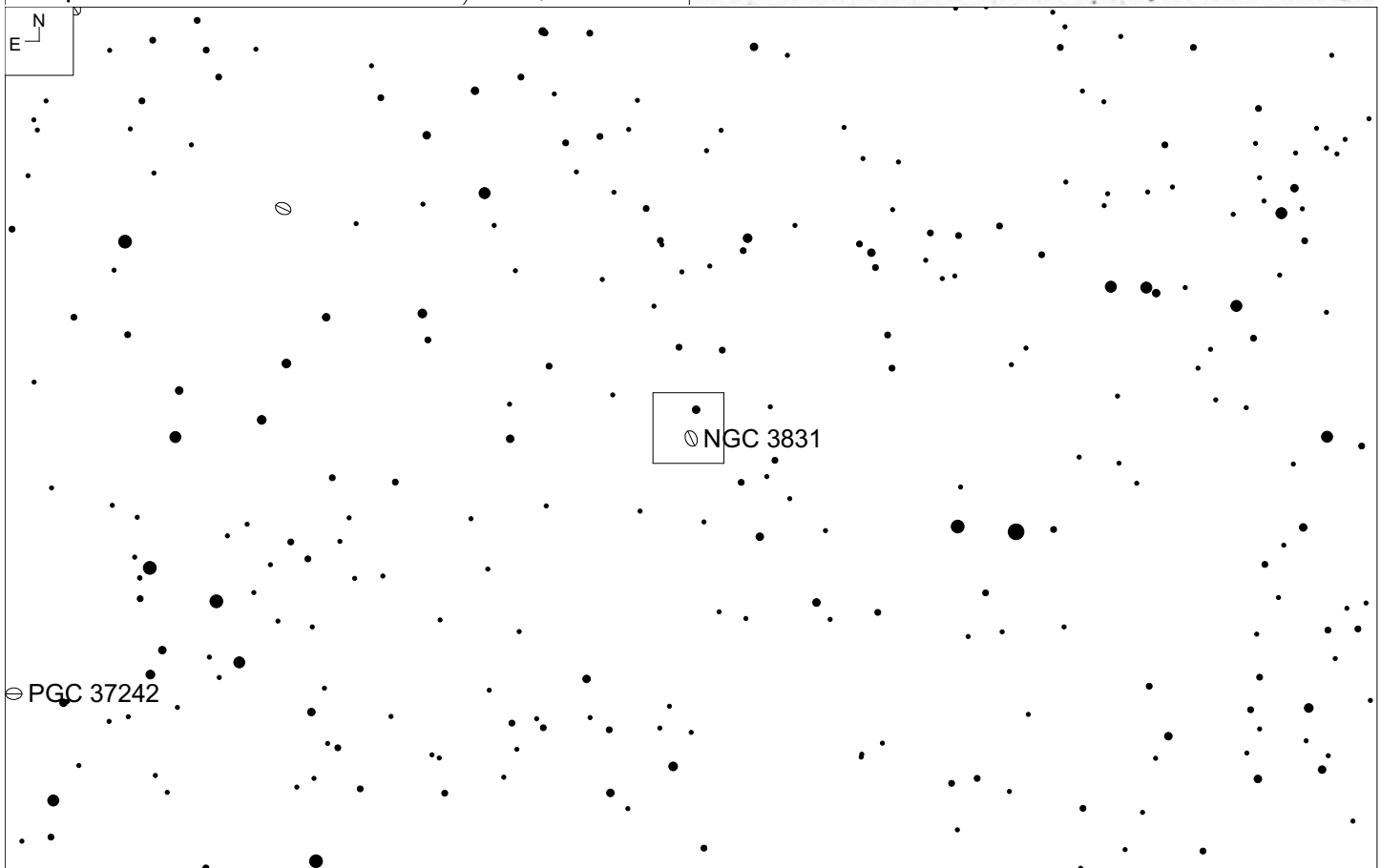
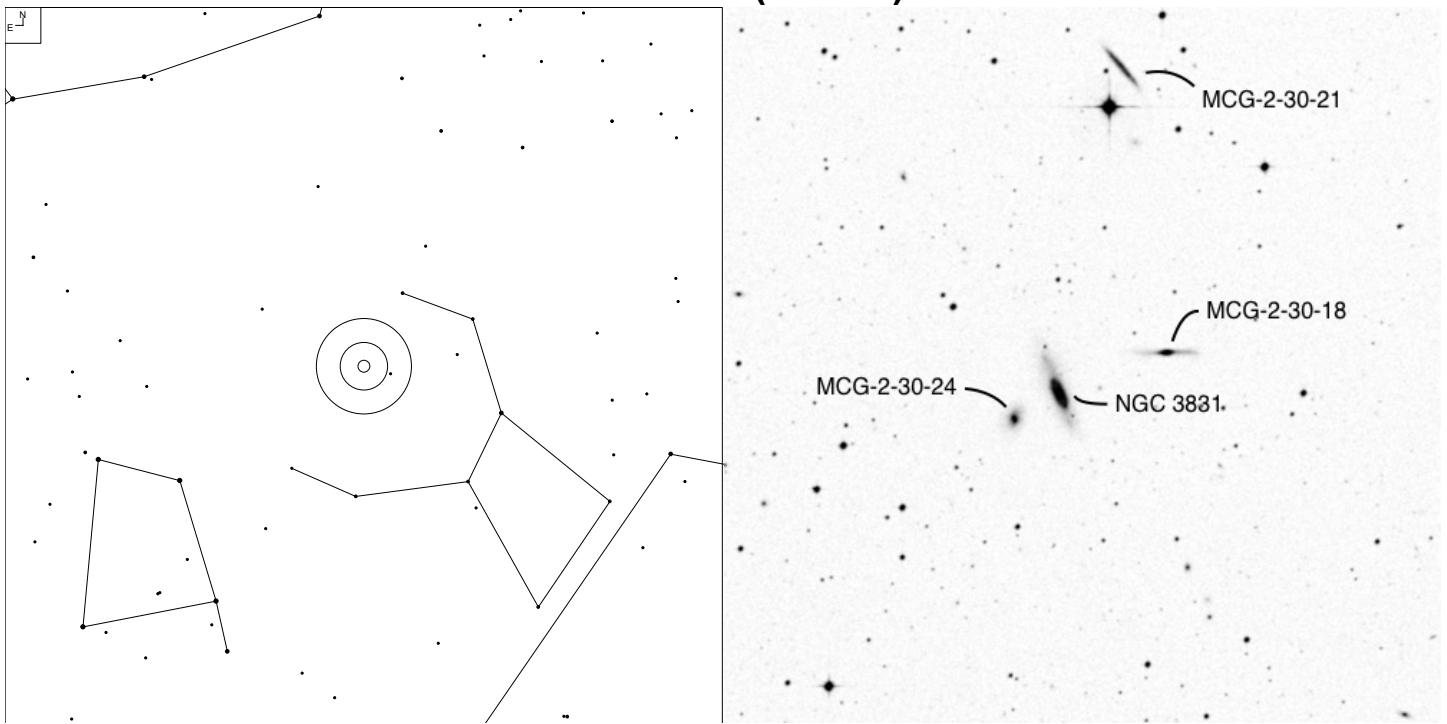
NGC 3667 (Crater)



Object	RA	Dec	Mag	Size
NGC 3667	11 24 17.0	-13 51 22	13.5	1.4 x 0.9'
NGC 3667A			14.3	1.4 x 0.5'
NGC 3661			14.8	1.5 x 0.5'

Miles Paul trio

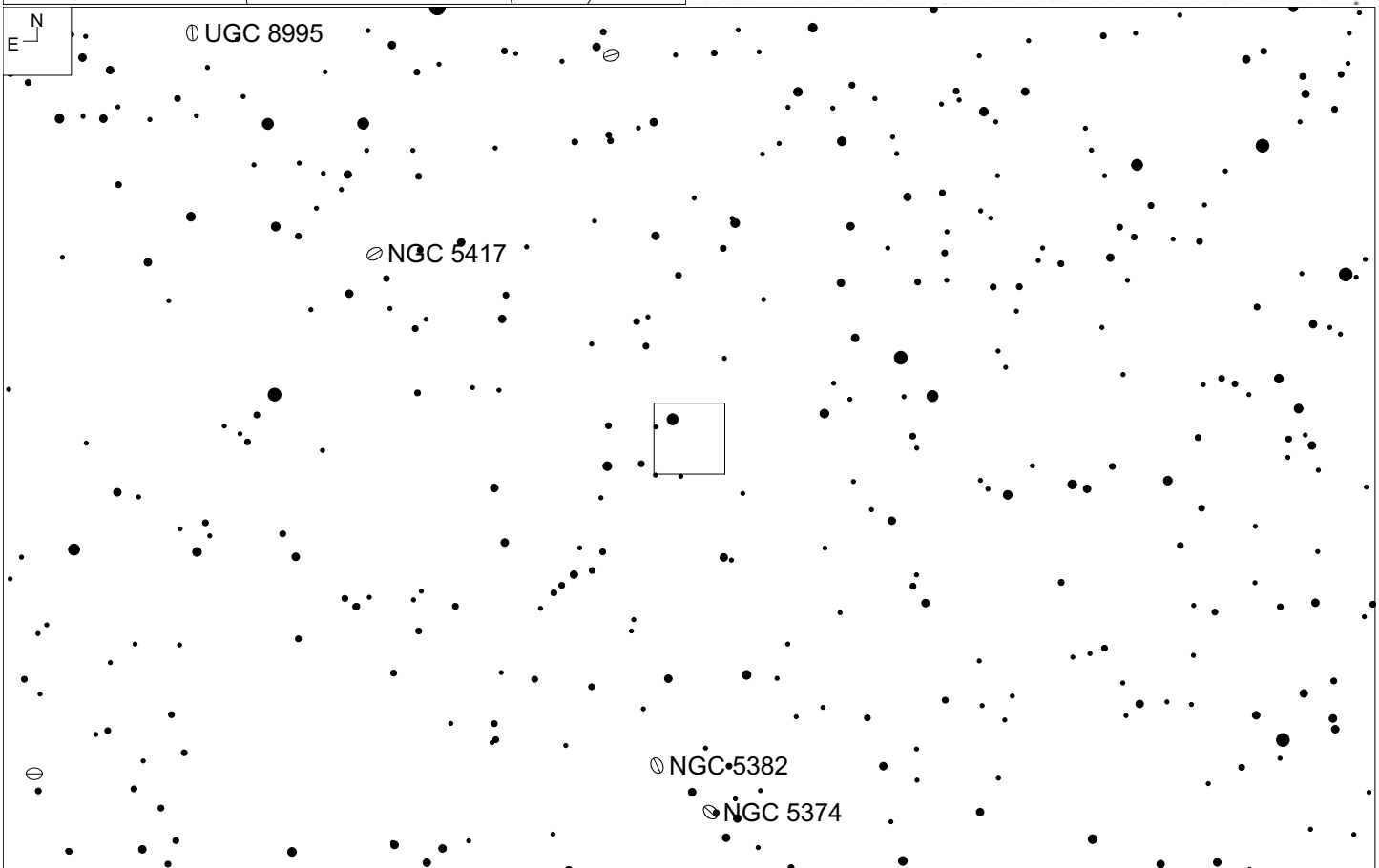
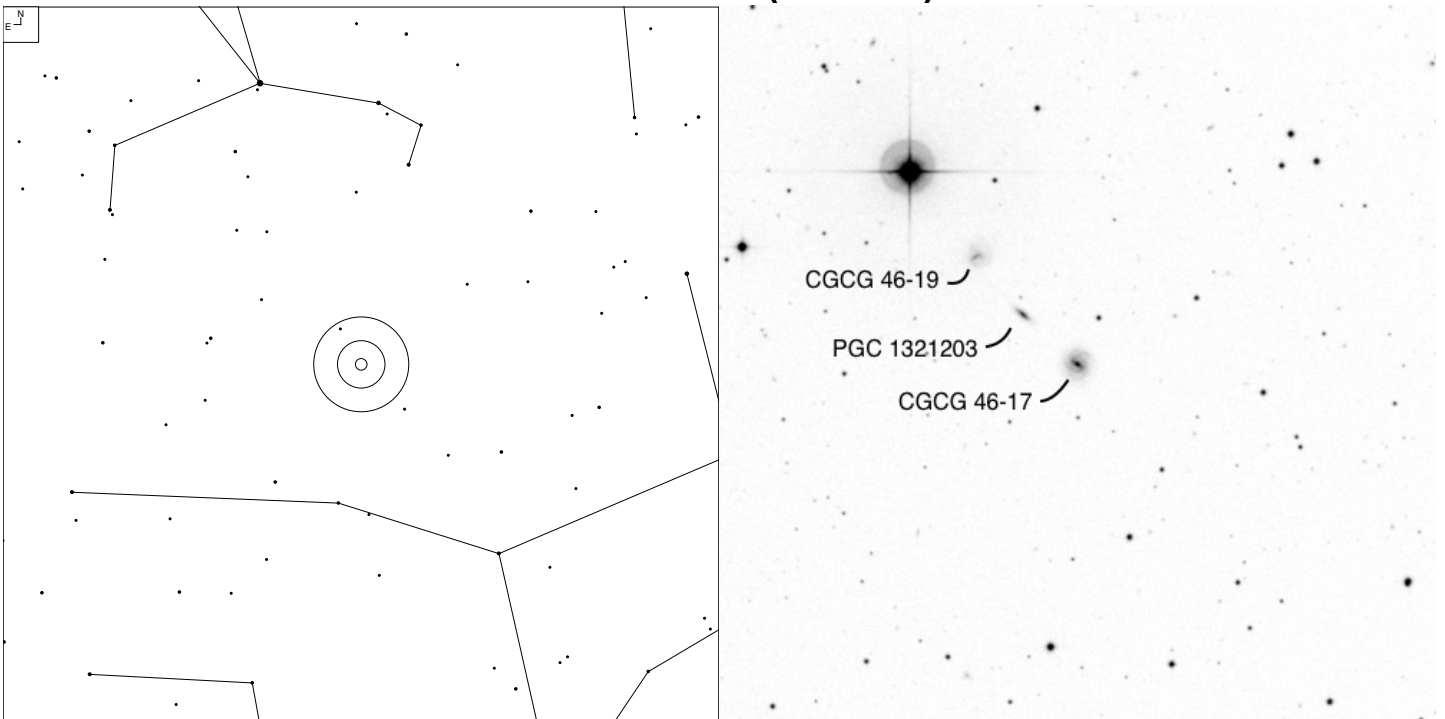
NGC 3831 (Crater)



Object	RA	Dec	Mag	Size
NGC 3831	11 43 18.6	-12 52 45	13.6	2.7 x 0.5'
MCG-2-30-24			15.5	0.4 x 0.4'
MCG-2-30-18			15.5	1.5 x 0.1'
MCG-2-30-21			14.3	1.2 x 0.2'

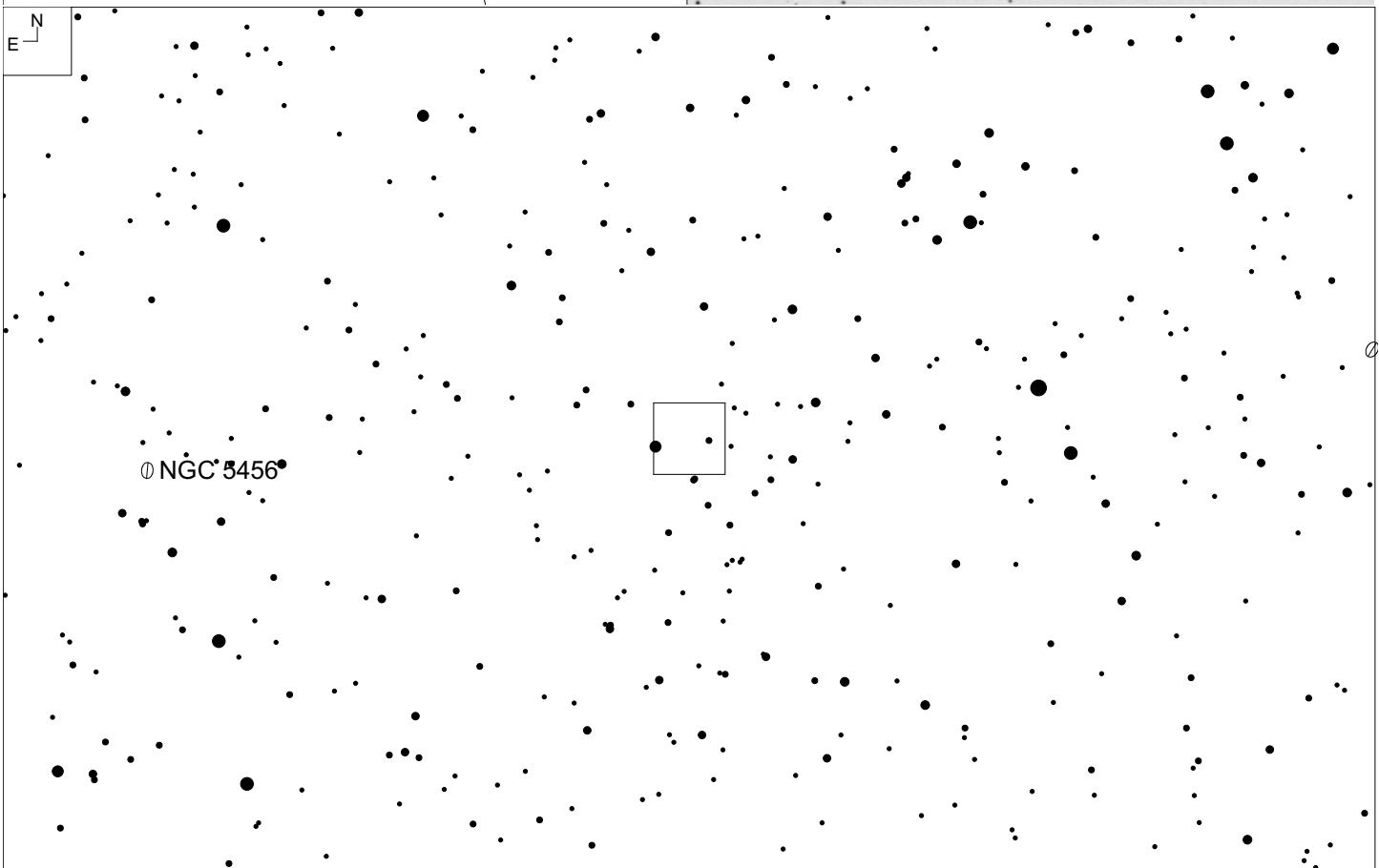
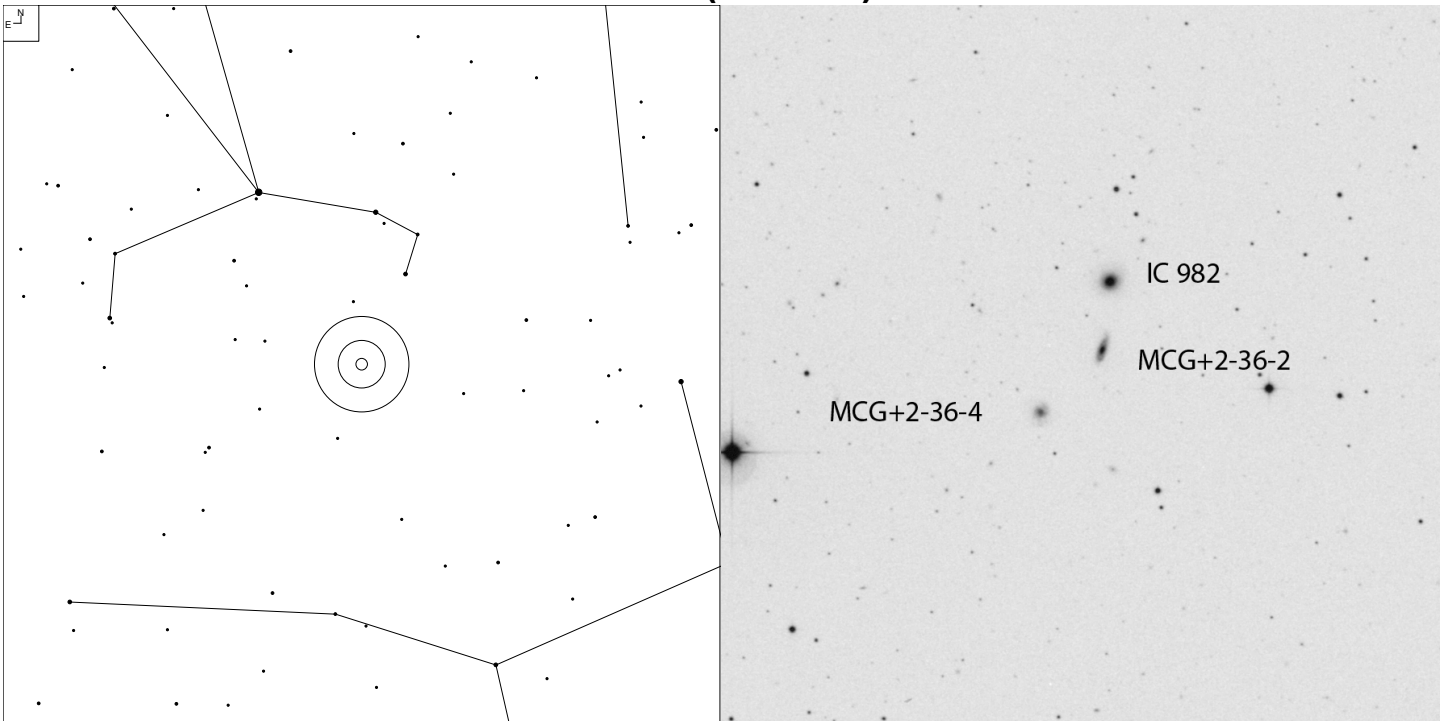
Miles Paul trio

CGCG 46-17 (Boötes)



Object	RA	Dec	Mag	Size
CGCG 46-17	13 57 47.7	+07 23 45	14.8	0.9 x 0.7'
CGCG 46-19			15.3	0.5 x 0.4'
PGC 1321203			15.3b	0.6 x 0.2'

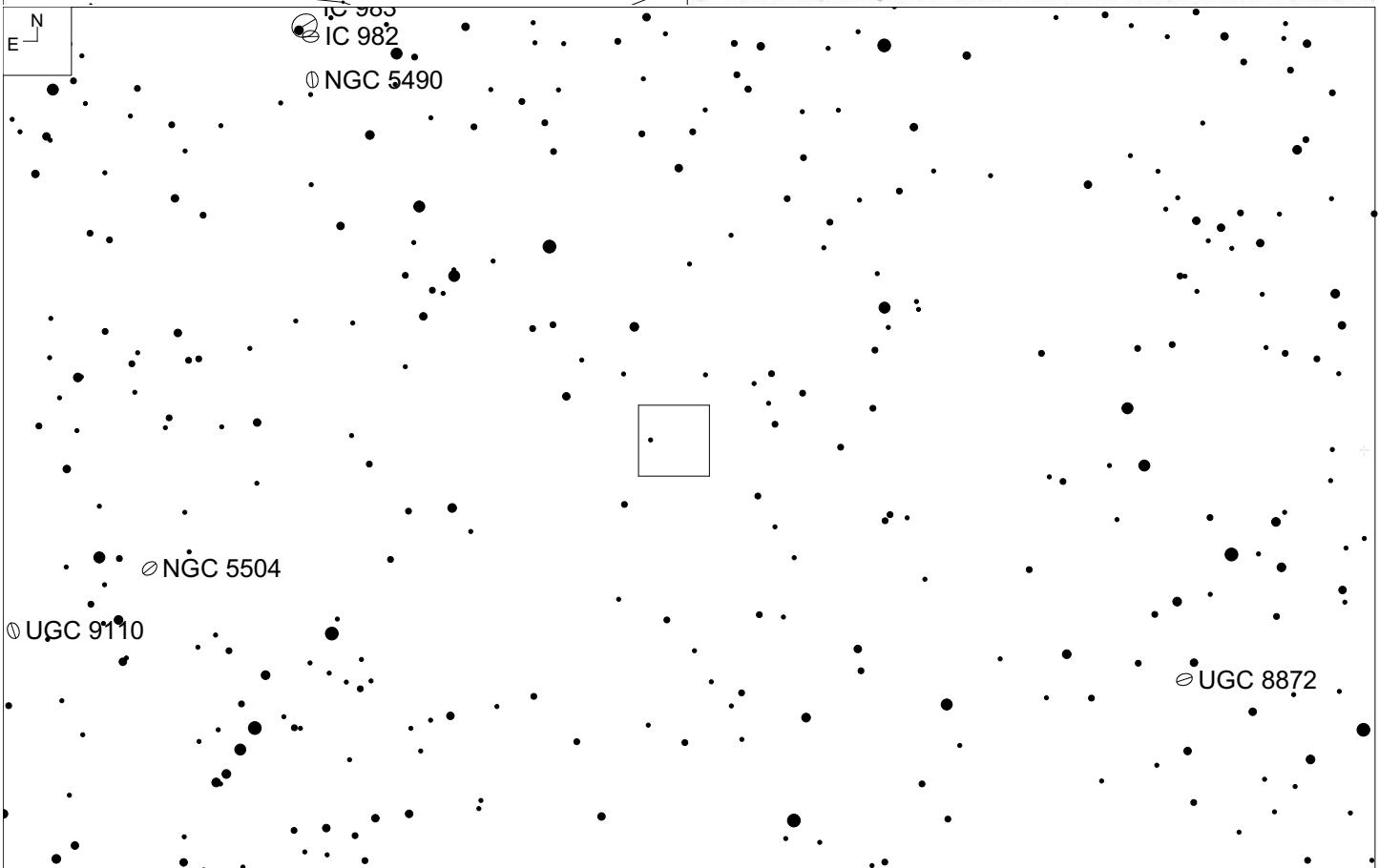
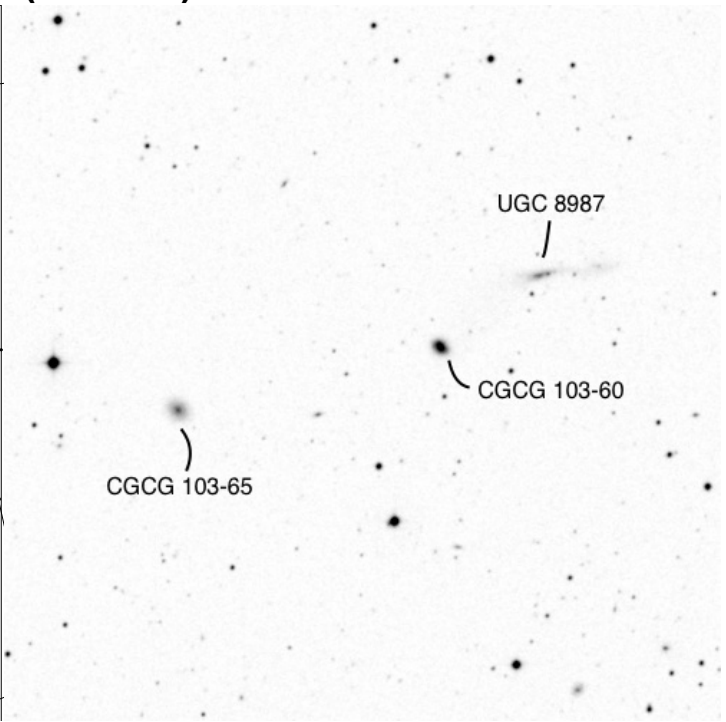
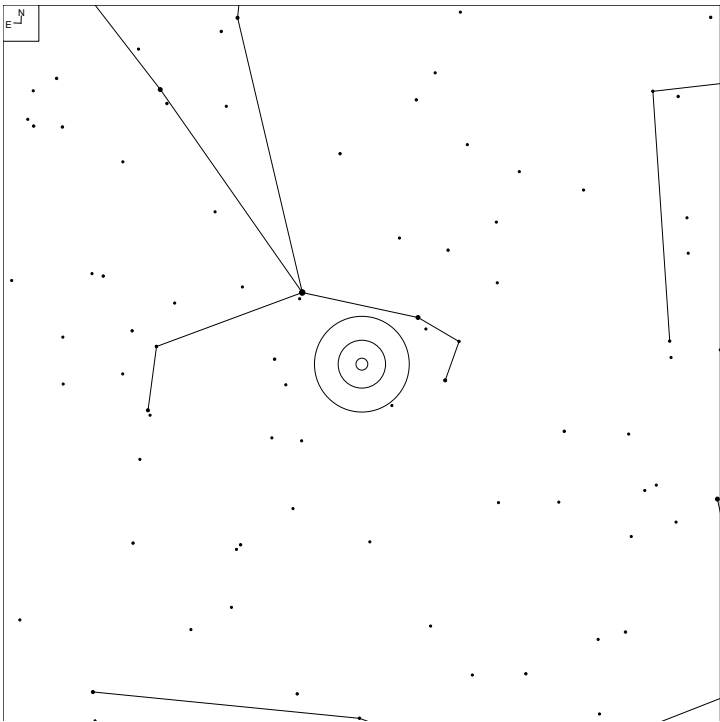
IC 962 (Boötes)



Object (KTG 51)	RA	Dec	Mag	Size
IC 982	13 57 13.3	+12 01 18	14.2p	0.7 x 0.5'
MCG+2-36-2			15.0p	0.8 x 0.3'
MCG+2-36-4			15.2	0.4 x 0.4'

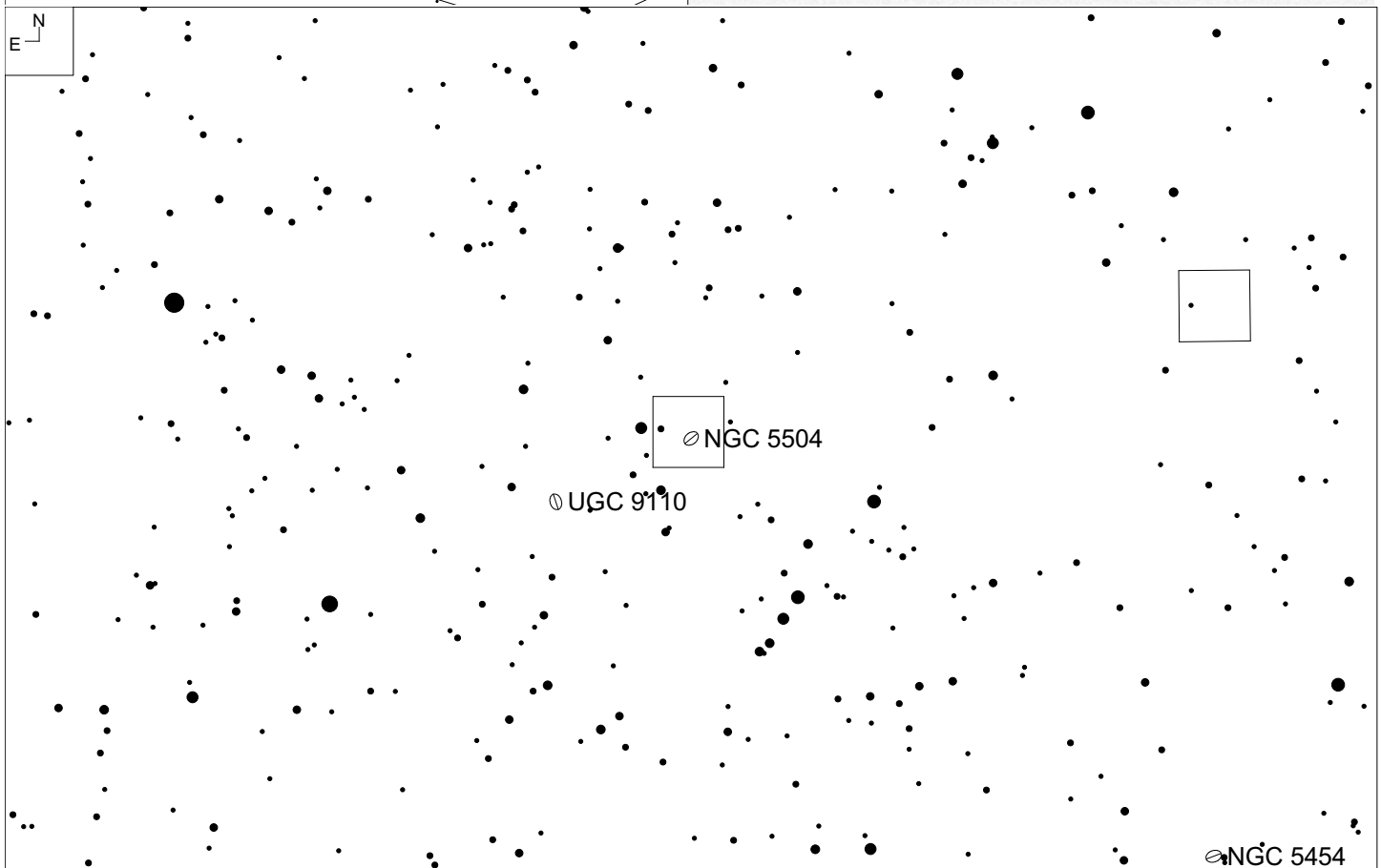
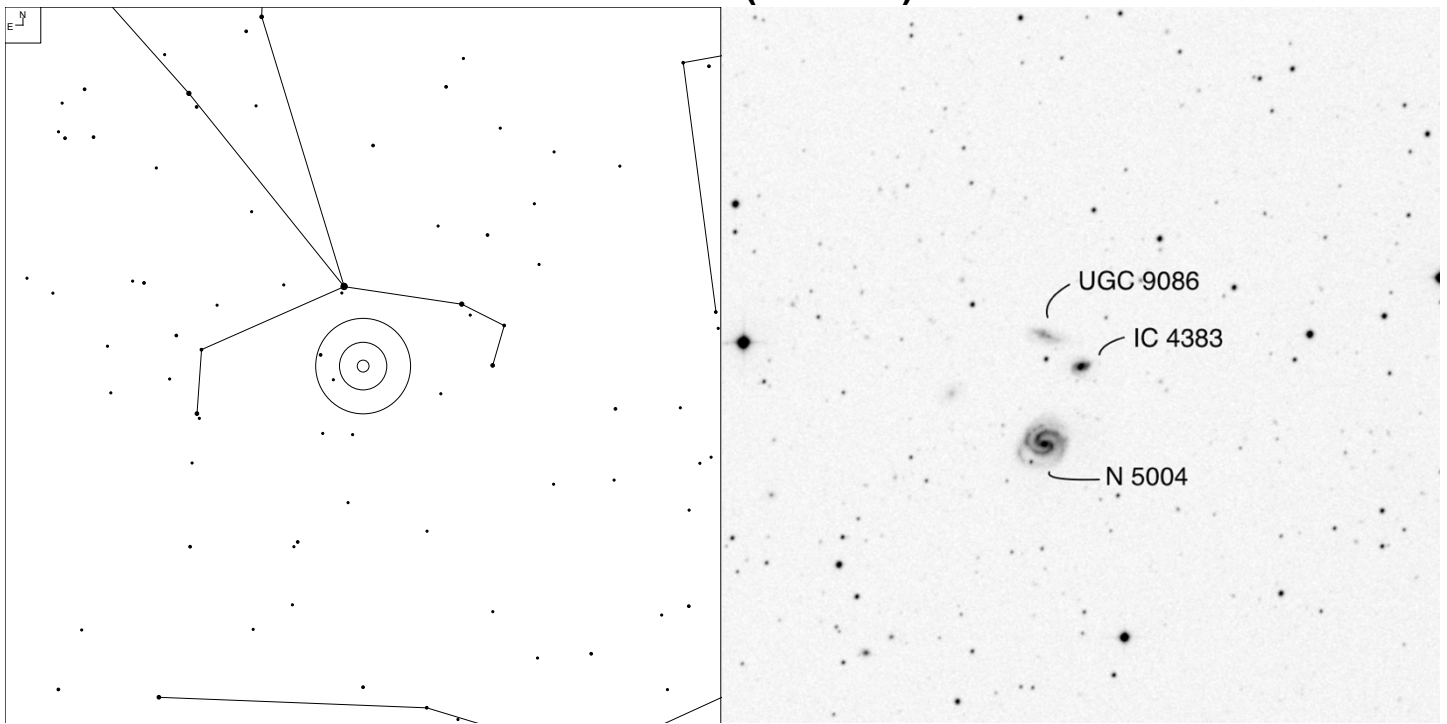
Miles Paul trio

UGC 8987 (Boötes)



Object	RA	Dec	Mag	Size
UGC 8987	14 04 18.9	+16 19 41	14.7	2.0 x 0.4'
CGCG 103-60			14.8	0.5 x 0.4'
CGCG 103-65			15.6	0.7 x 0.5'

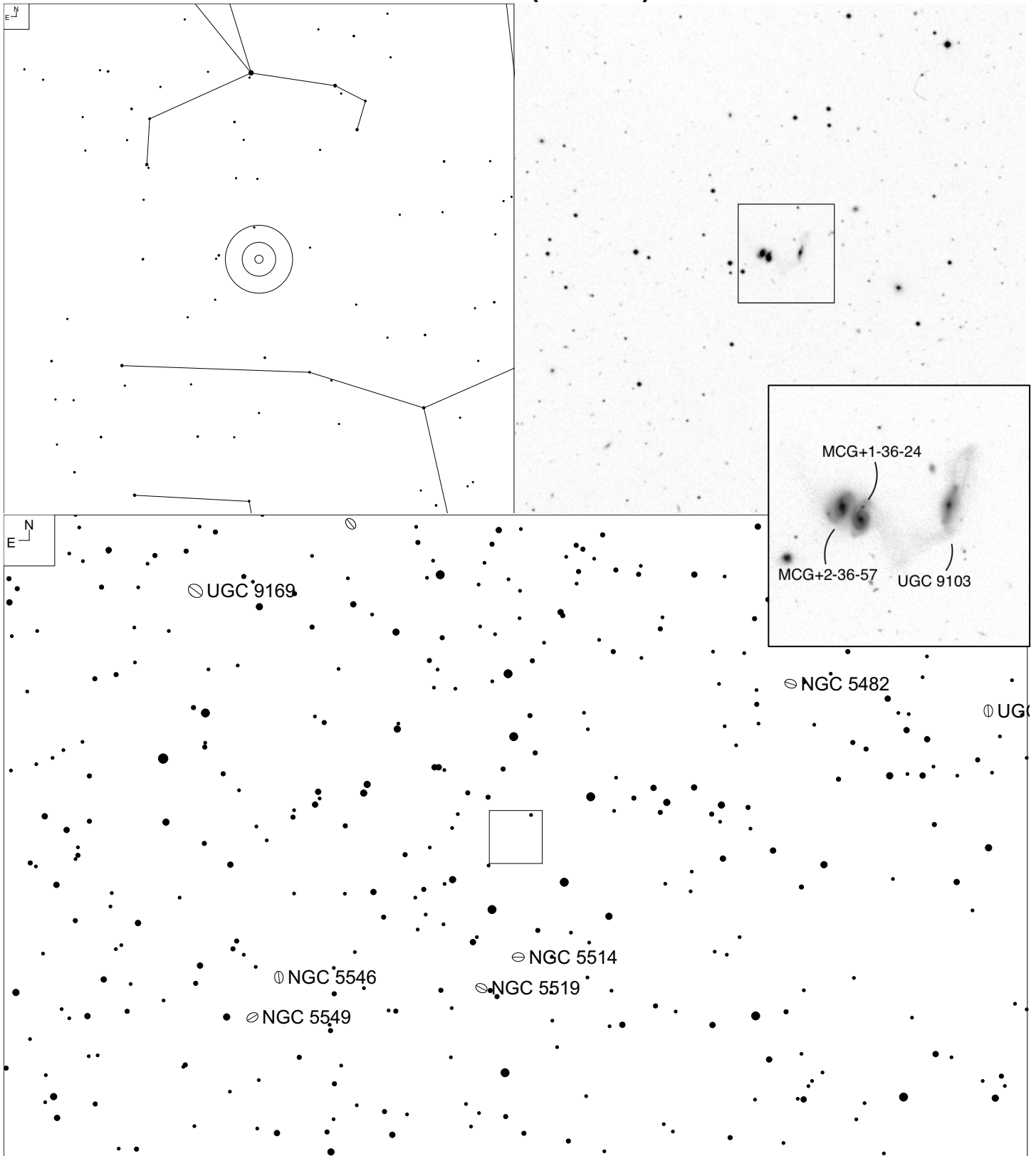
NGC 5504 (Boötes)



Object (KTG 53)	RA	Dec	Mag	Size
NGC 5504	14 12 15.7	+15 50 34	13.8p	1.3 x 1.0'
IC 4383			15.2	0.7 x 0.5'
UGC 9086			15.3p	0.9 x 0.4'

Miles Paul trio

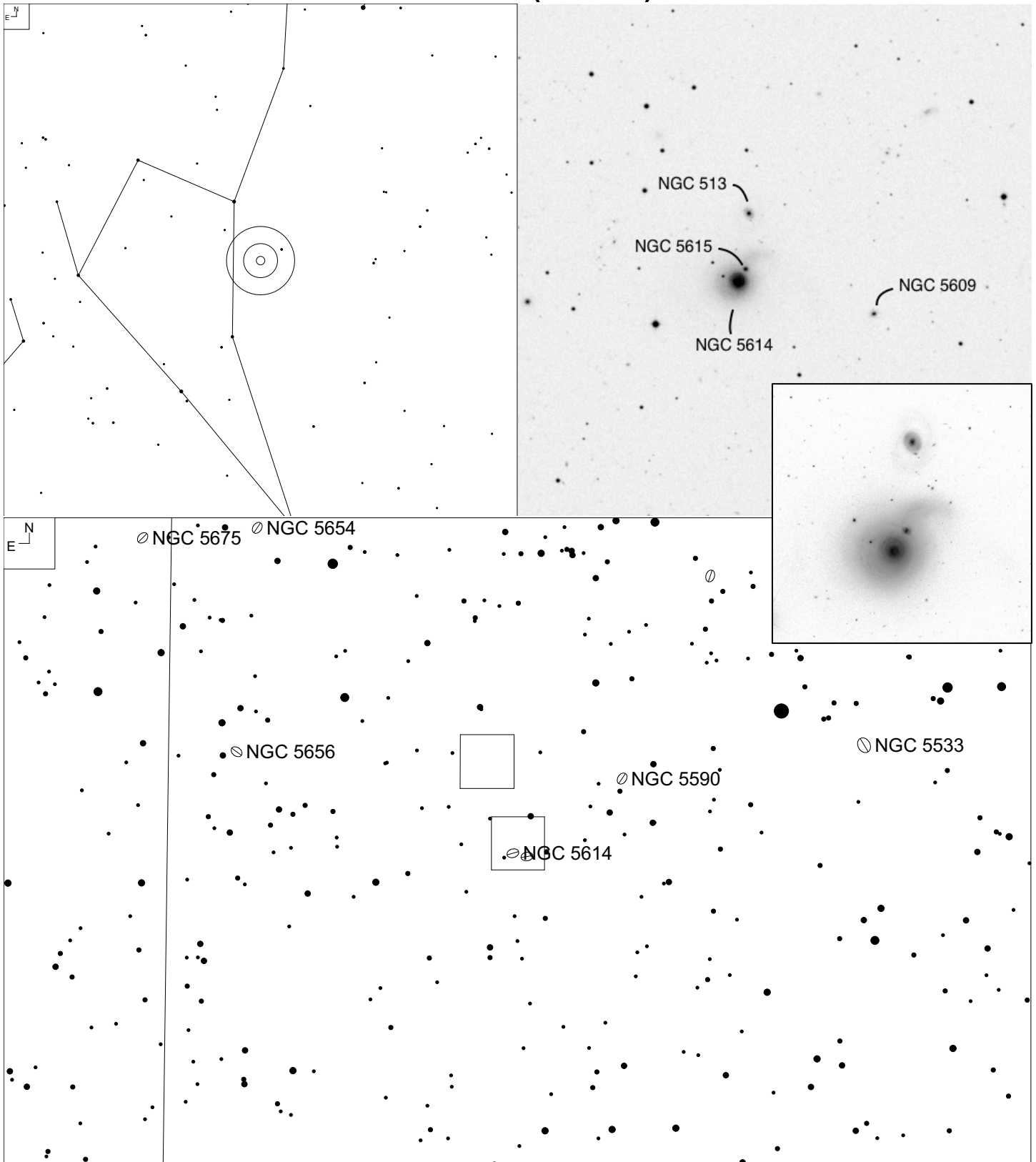
UGC 9103 (Boötes)



Object	RA	Dec	Mag	Size
UGC 9103	14 13 42.0	+08 13 13	16.0	1.0 x 0.1'
MCG+1-36-24			14.7	0.5 x 0.3'
MCG+2-36-57			16.4	0.5 x 0.4'

Miles Paul trio

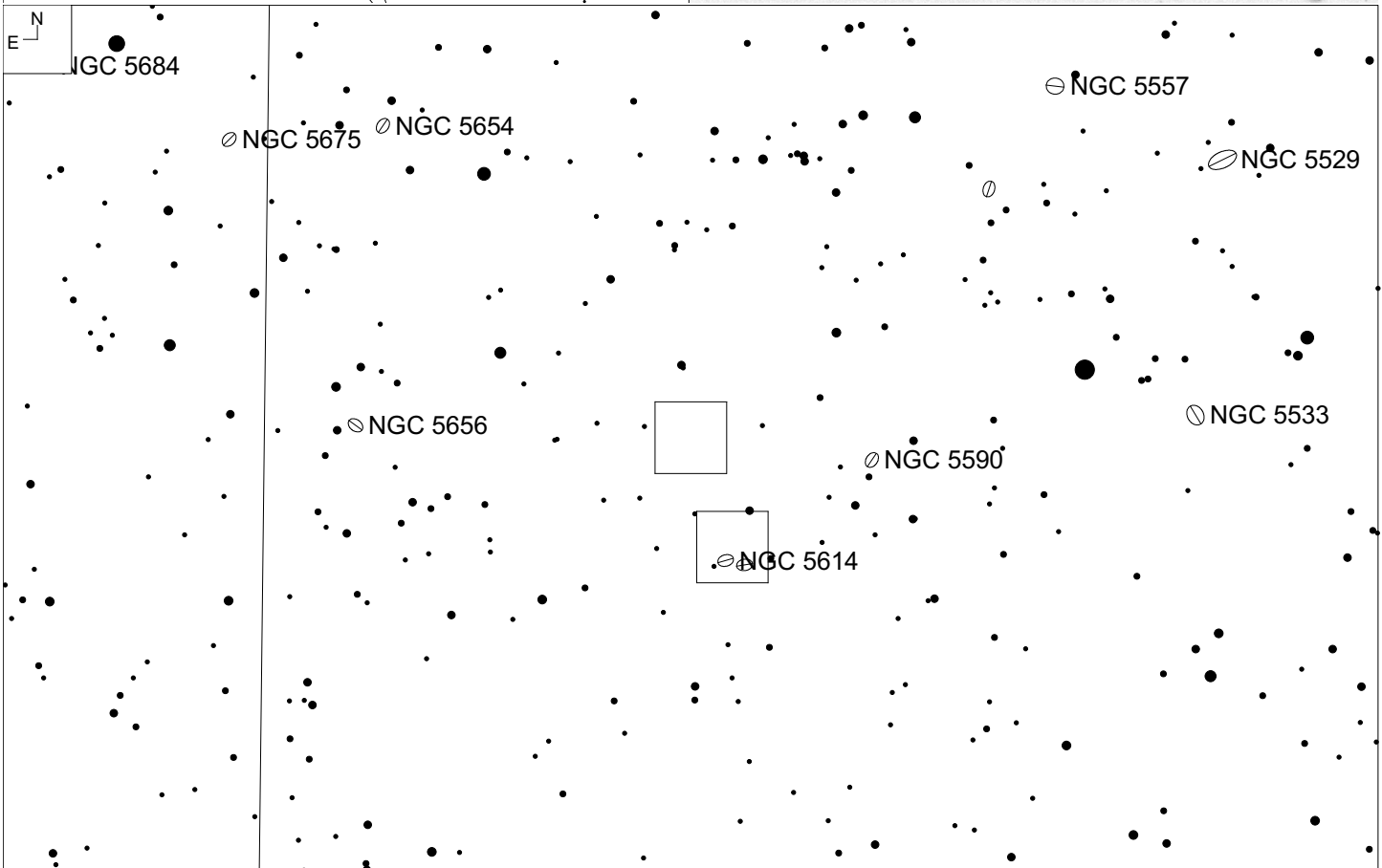
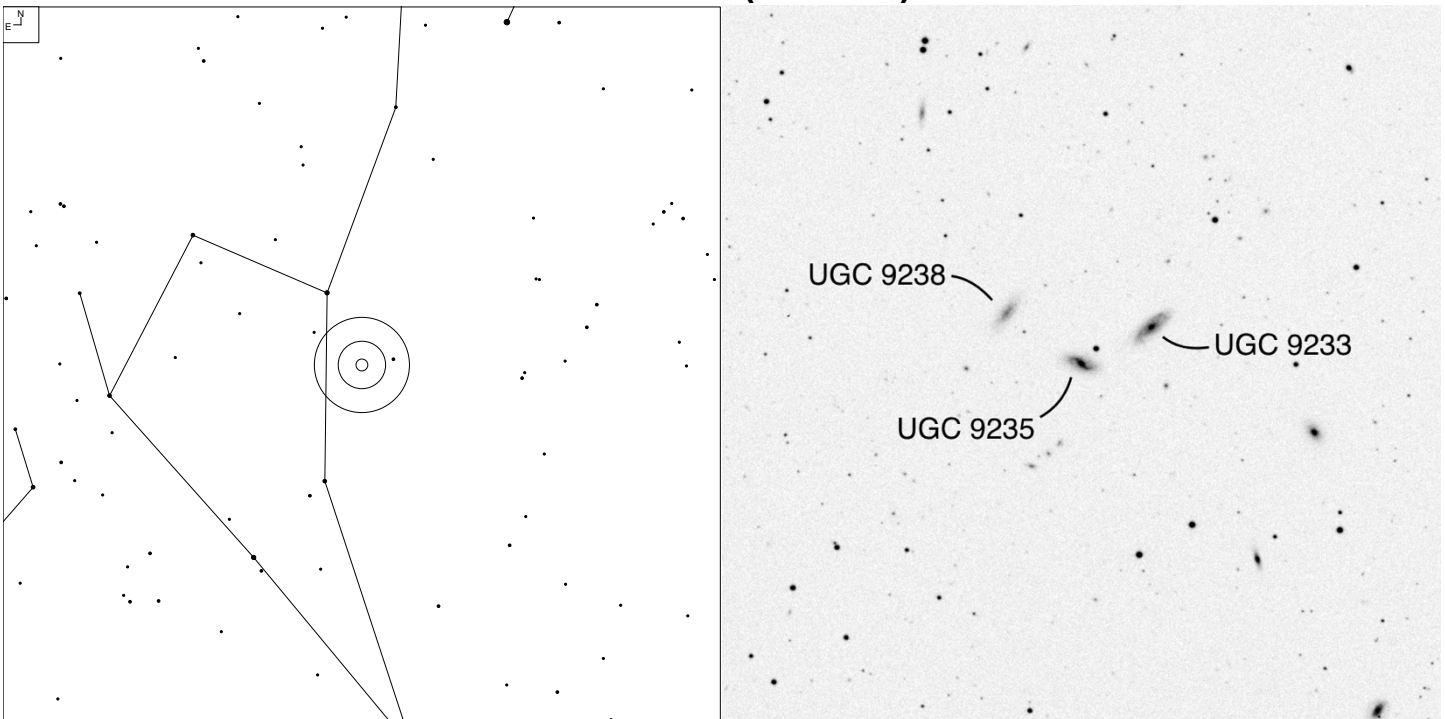
NGC 5614 (Boötes)



Object	RA	Dec	Mag	Size
NGC 5614	14 24 07.5	+34 51 31	11.6v	2.4 x 2.2'
NGC 5613			14.5	0.6 x 0.4'
NGC 5615			15.5	1.4 x 0.4'
NGC 5609			-	0.4 x 0.3'

Miles Paul and Astronomical League trio

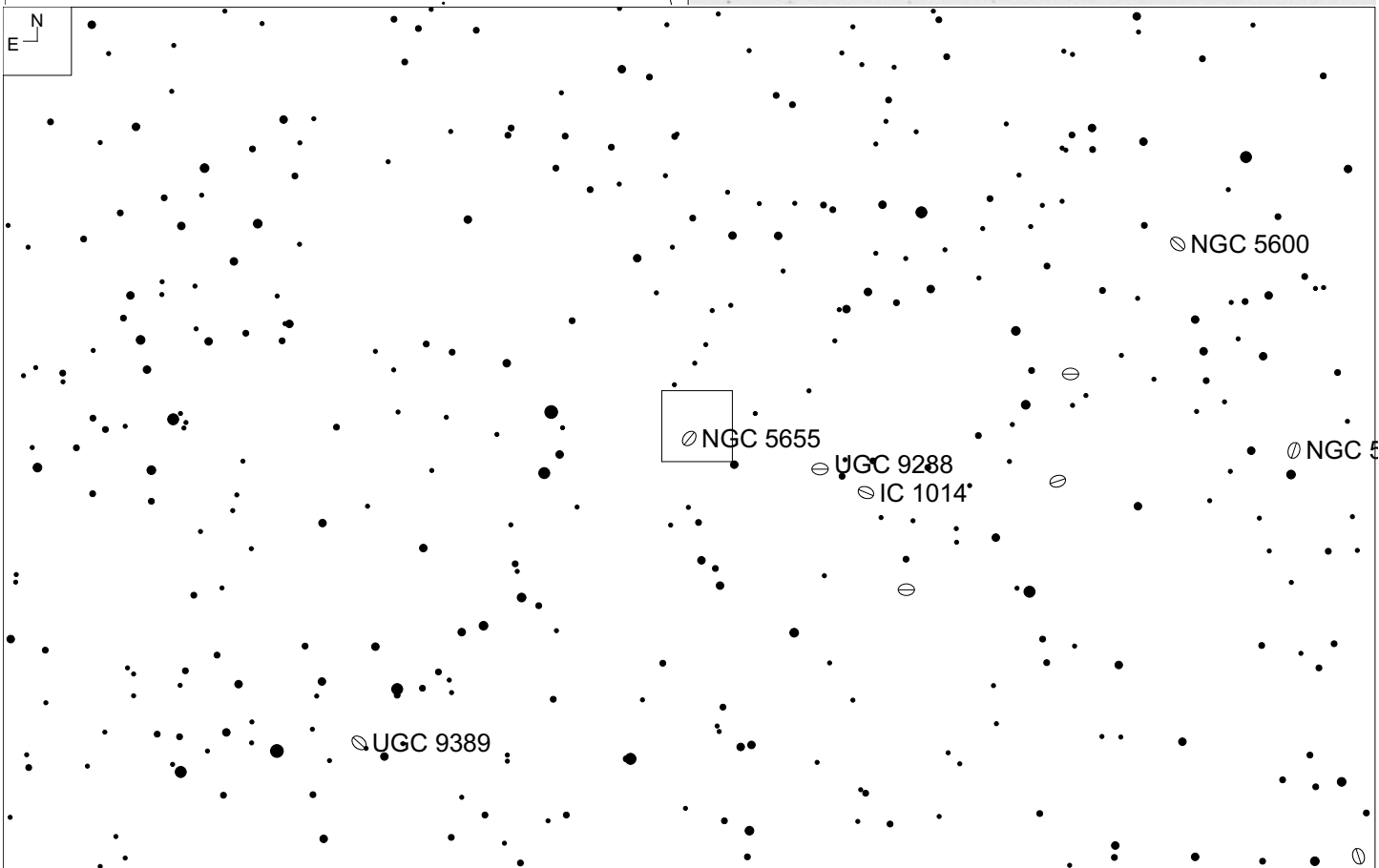
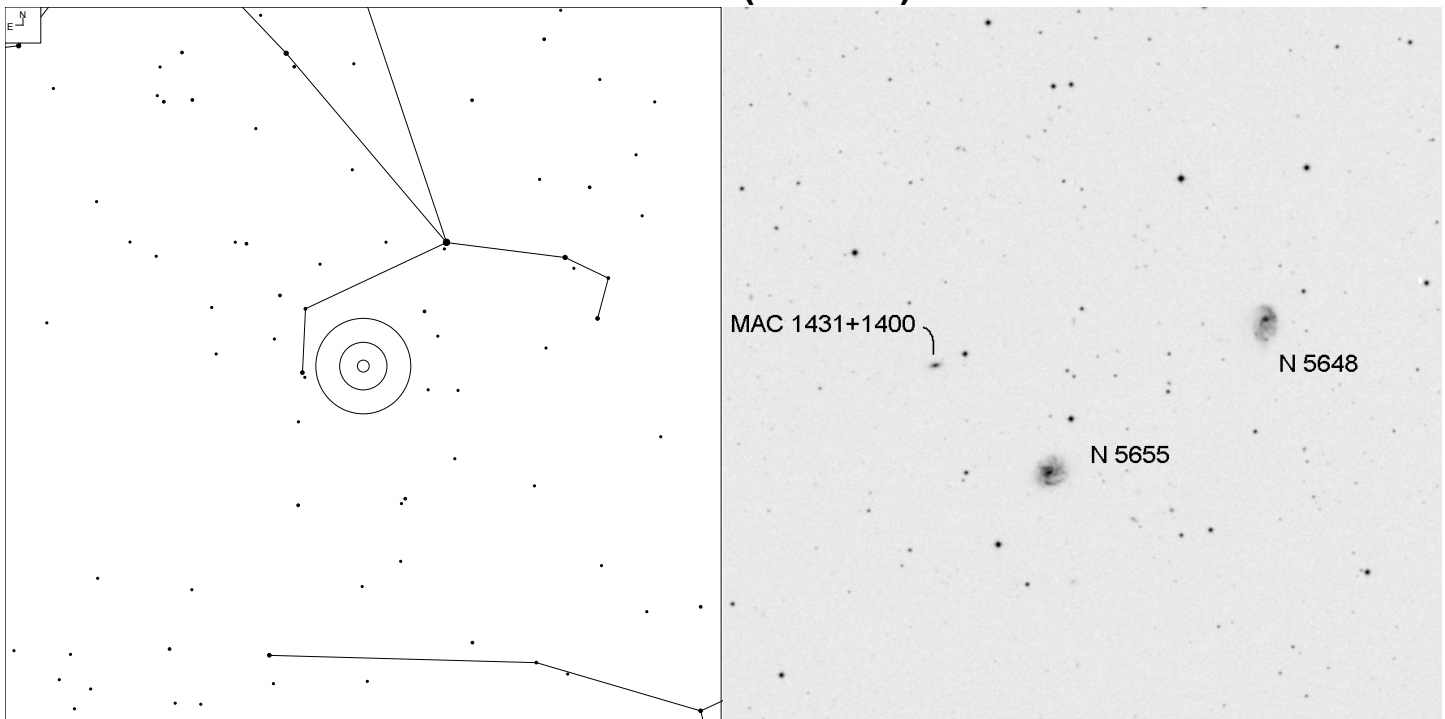
UGC 9233 (Boötes)



Object	RA	Dec	Mag	Size
UGC 9233	14 24 34.9	+35 16 47	15.2	1.5 x 0.5'
UGC 9235			15.3p	1.0 x 0.5'
UGC 9238			15.6	1.1 x 0.4'

Miles Paul trio

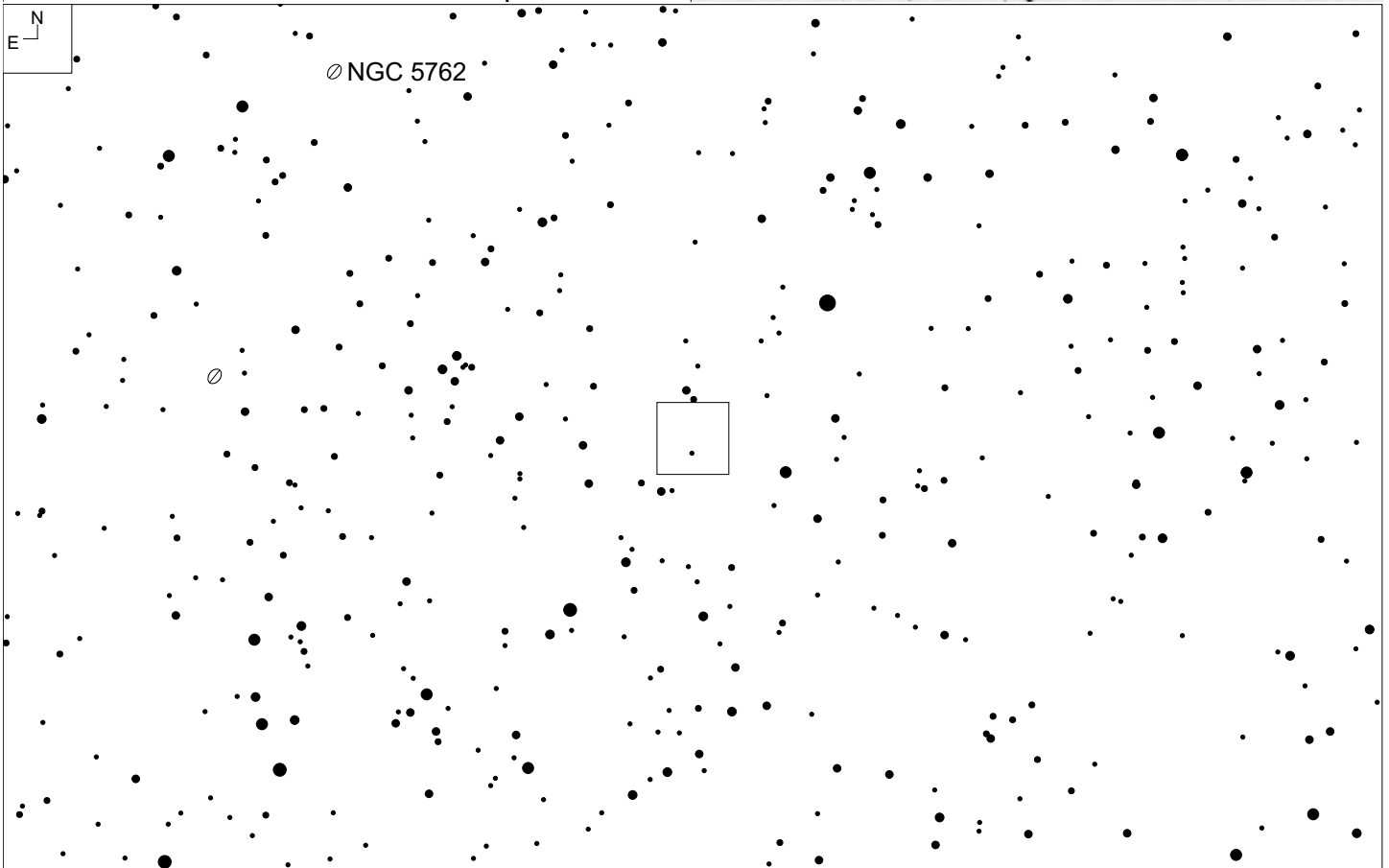
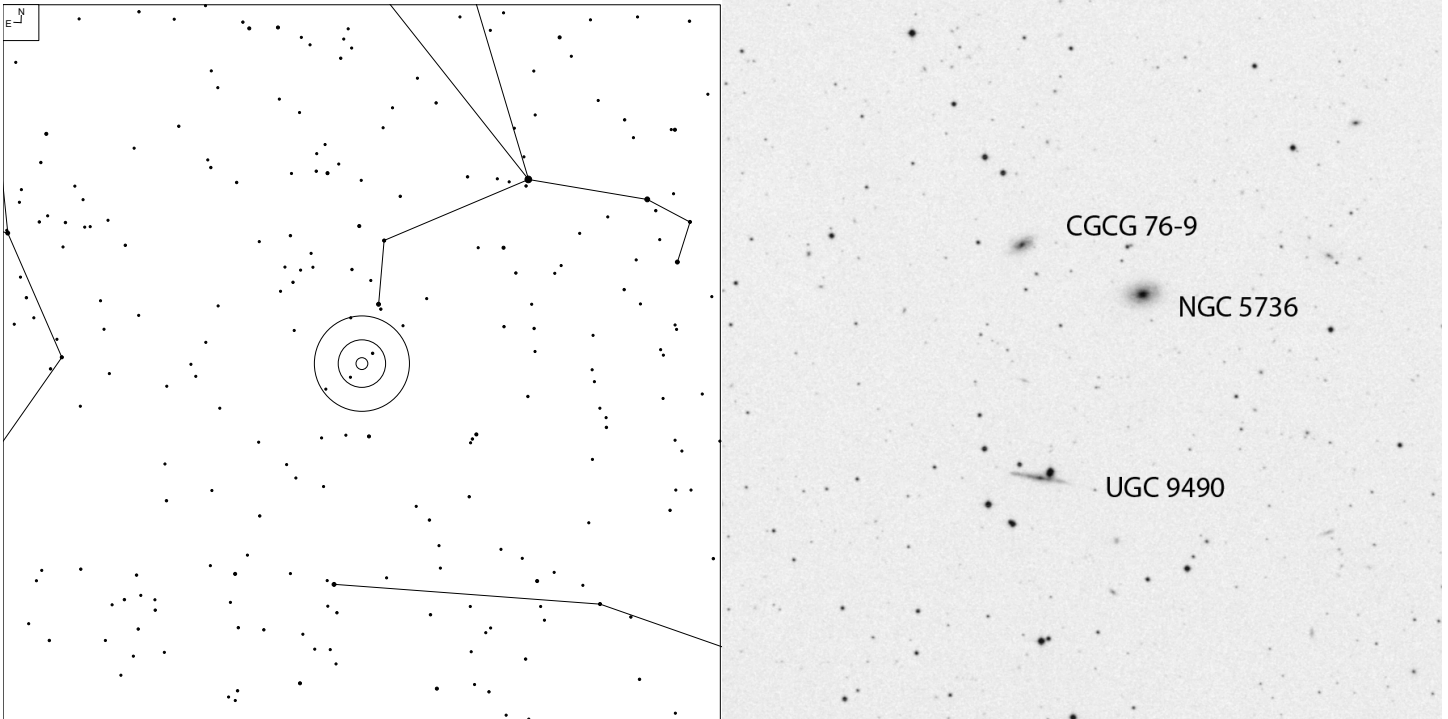
NGC 5648 (Boötes)



Object	RA	Dec	Mag	Size
NGC 5648	14 30 32.7	+14 01 21	14.7p	1.1 x 0.7'
NGC 5655			13.9p	1.0 x 0.8'
MAC 1431+1400			16.0	0.4 x 0.2'

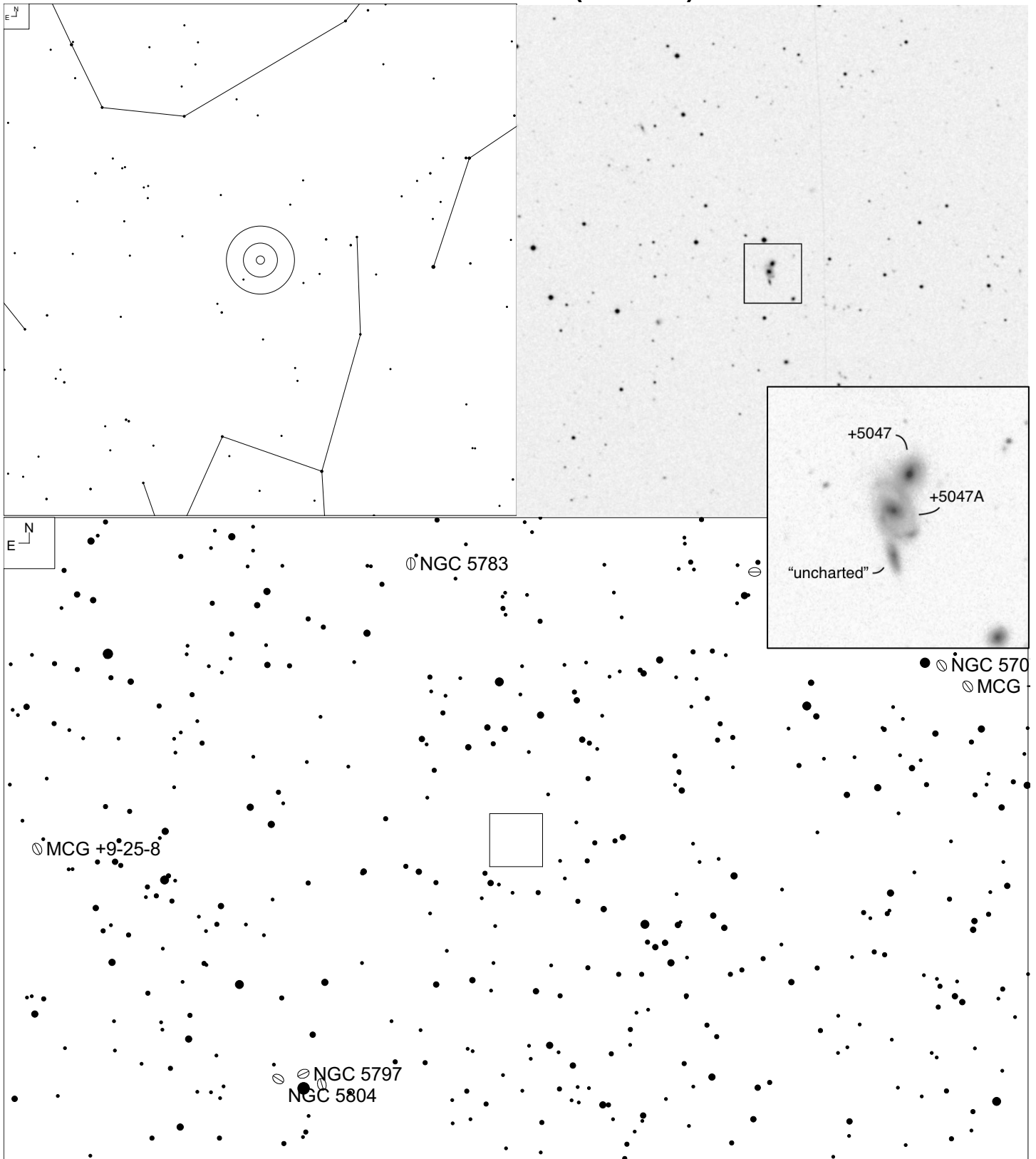
Miles Paul trio

NGC 5736 (Boötes)



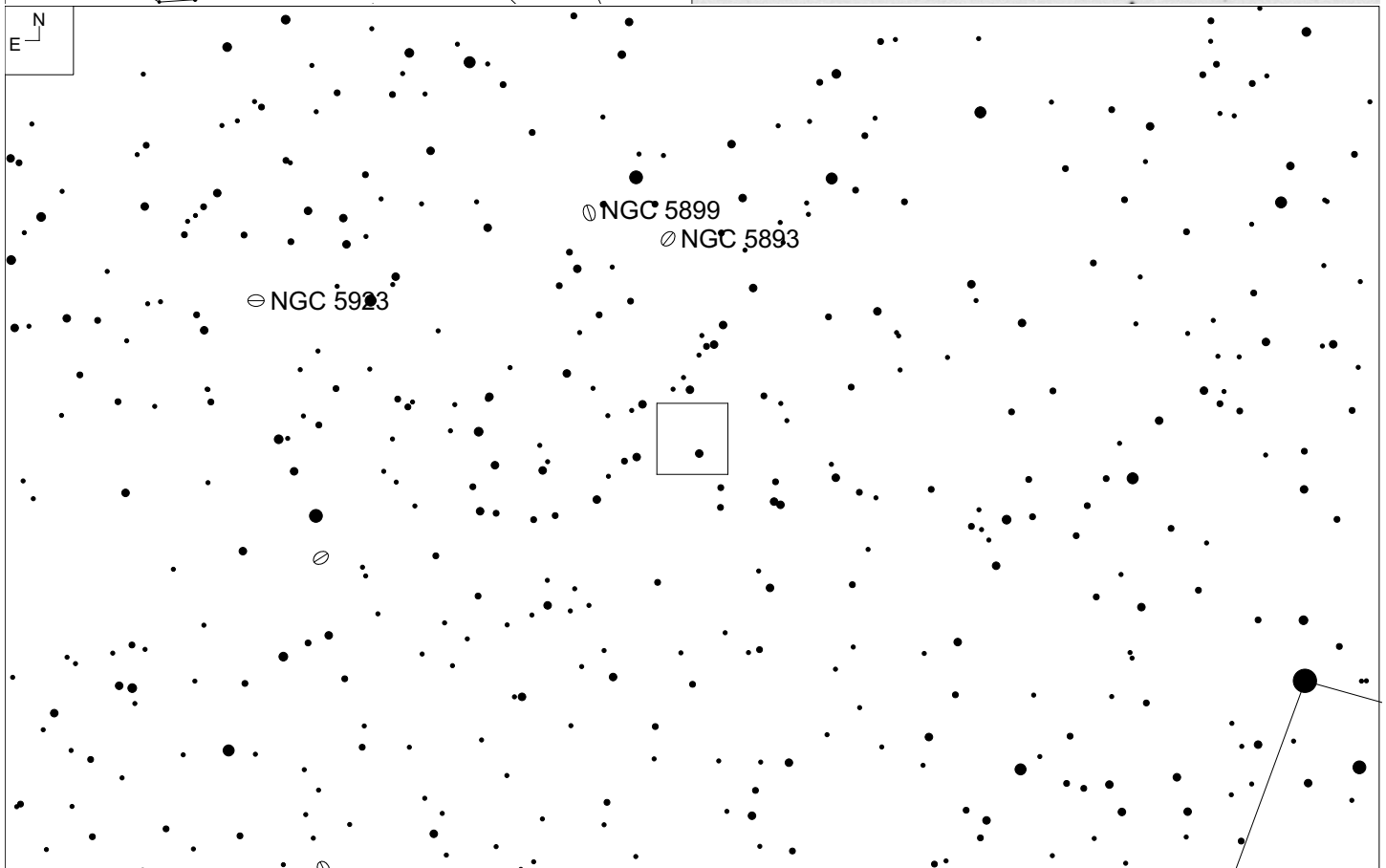
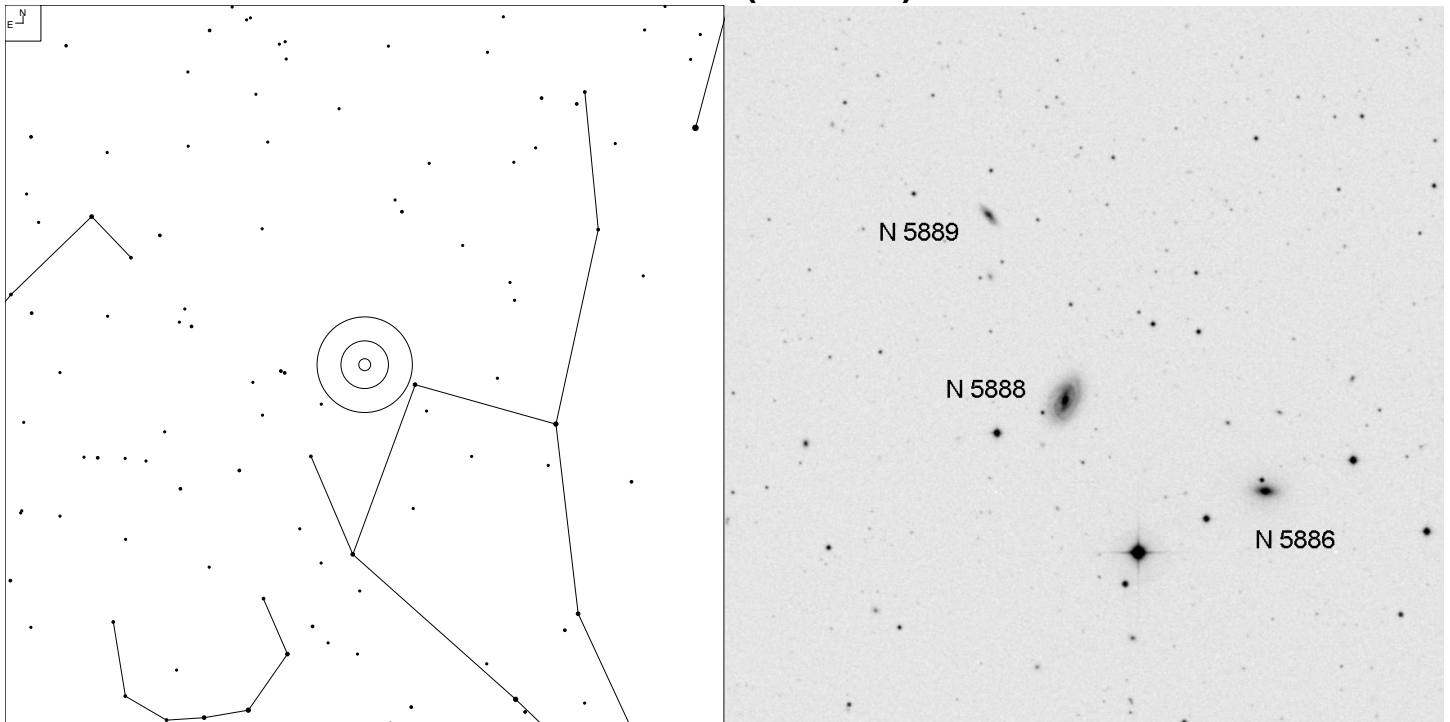
Object (KTG 58)	RA	Dec	Mag	Size
NGC 5736	14 43 30.7	+11 12 11	14.7	1.1 x 0.7'
UGC 9490			15.5p	1.2 x 0.1'
CGCG 76-9			15.2	0.6 x 0.3'

MAC 1450+5047 (Boötes)



Object	RA	Dec	Mag	Size
MAC 1450+5047	14 50 16.4	+50 47 36	16.5	0.3'
MAC 1450+5047A			16.5	0.5 x 0.3'
uncharted			19.0*	

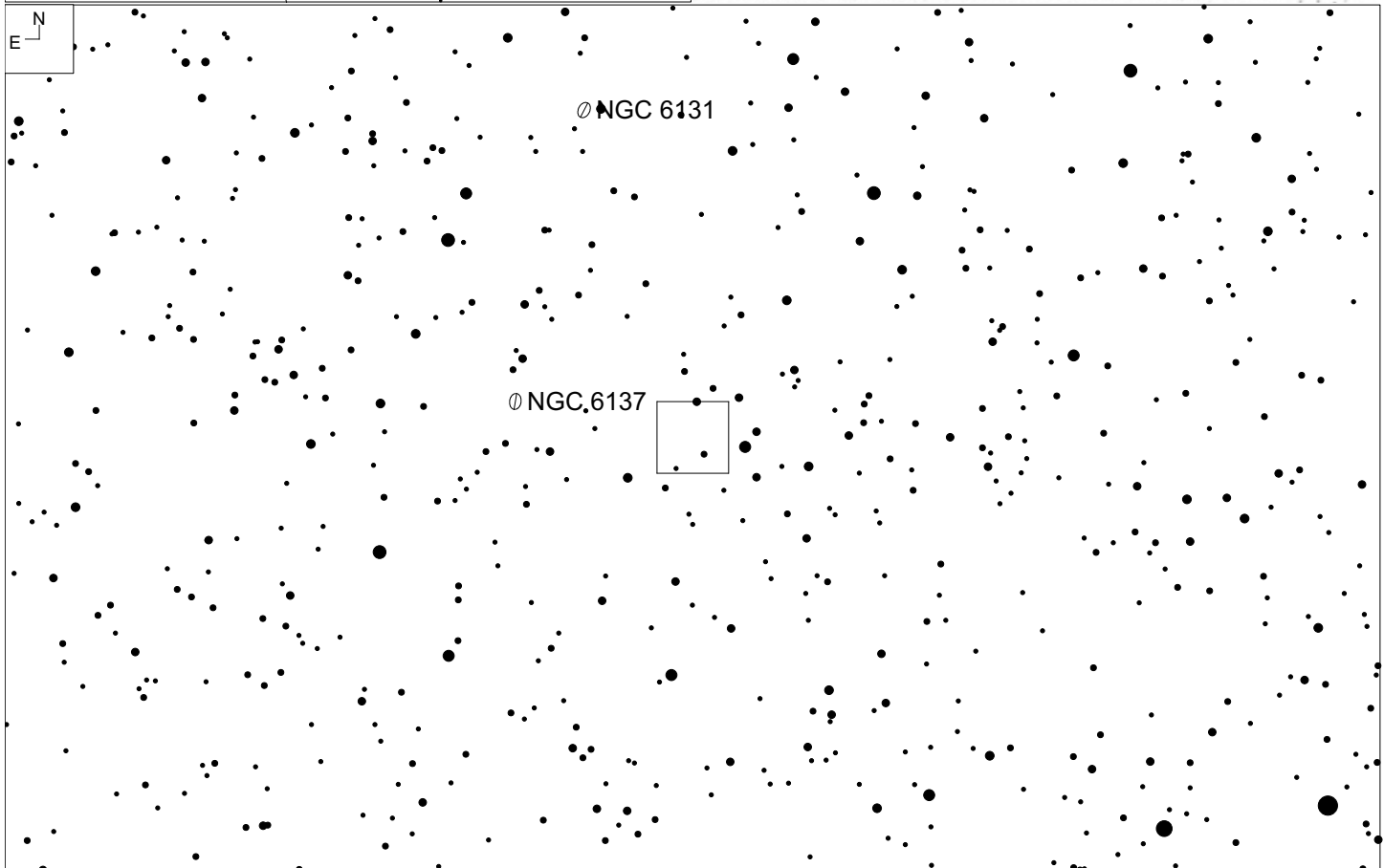
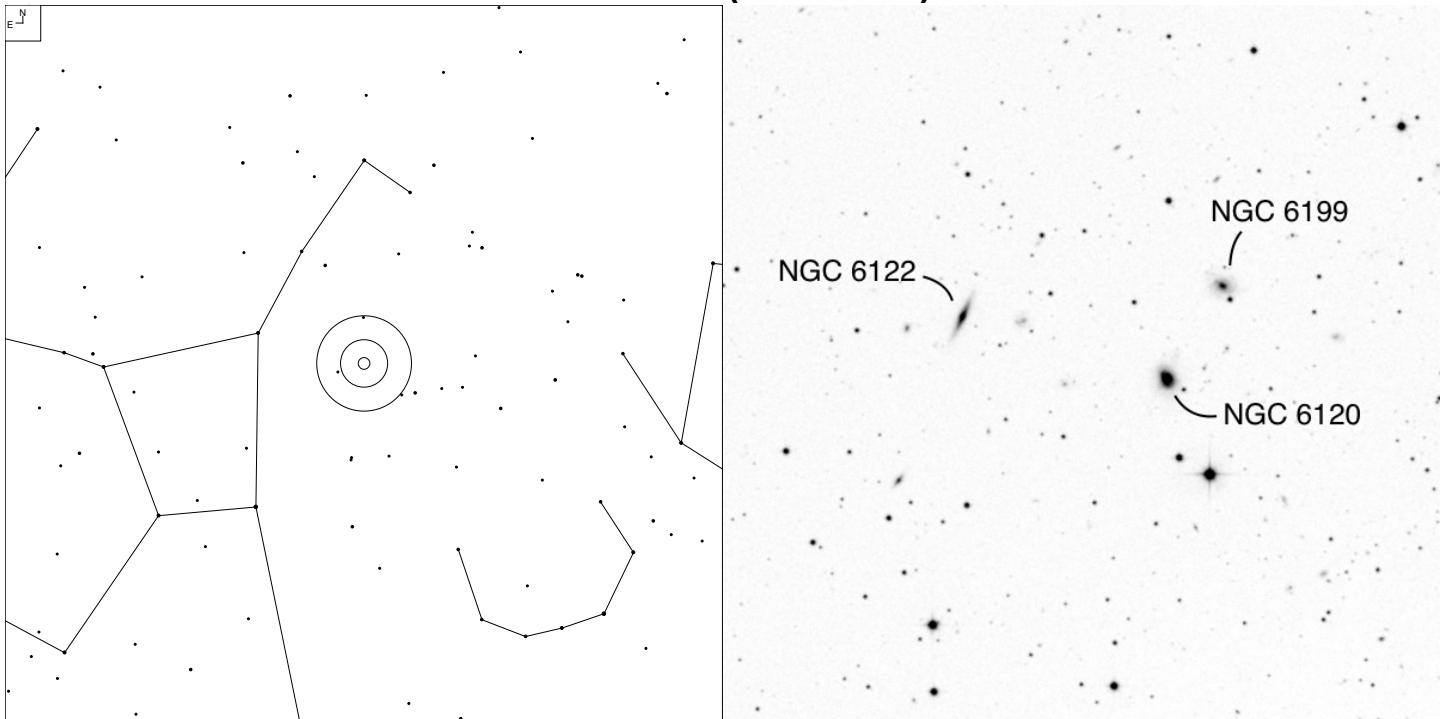
NGC 5888 (Boötes)



Object	RA	Dec	Mag	Size
NGC 5888	15 13 07.1	+41 15 53	14.2p	1.3 x 0.8'
NGC 5886			15.0	0.9 x 0.4'
NGC 5889			15.5	1.3 x 0.7'

Miles Paul trio

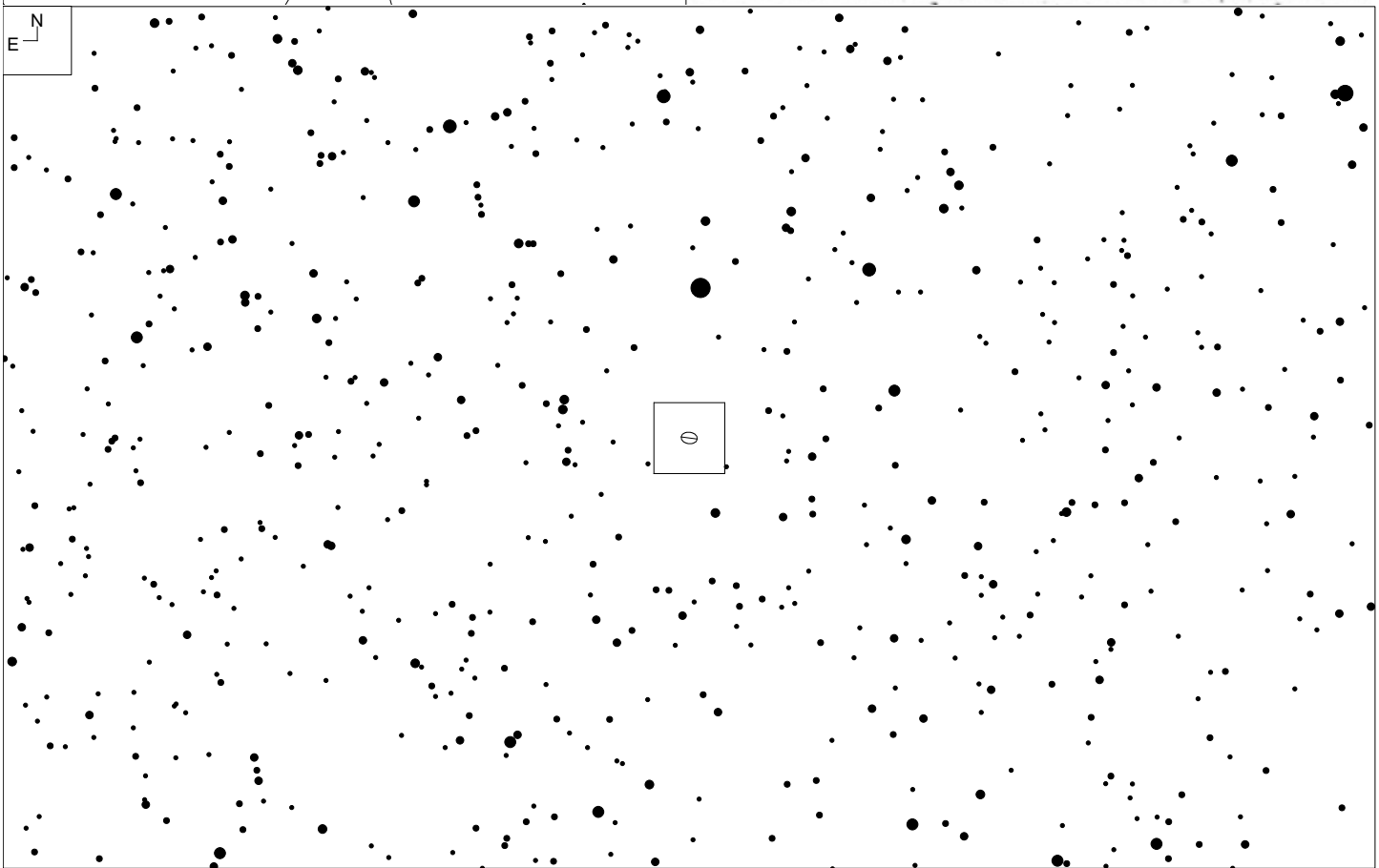
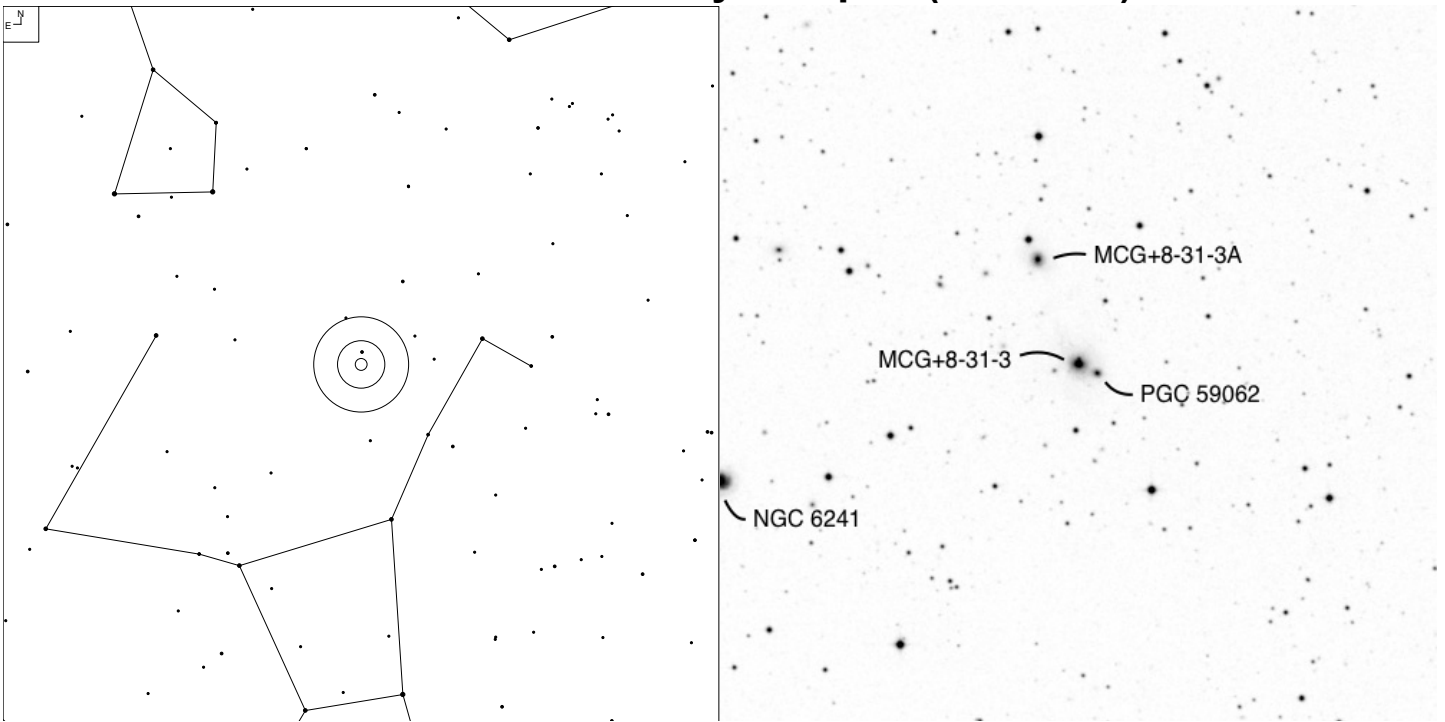
NGC 6120 (Hercules)



Object	RA	Dec	Mag	Size
NGC 6120	16 19 48.2	+37 46 29	14.6p	1.0 x 0.7'
NGC 6119			15.4	0.8 x 0.5'
NGC 6122			15.2g	1.2 x 0.3'

Miles Paul and Astronomical League trio

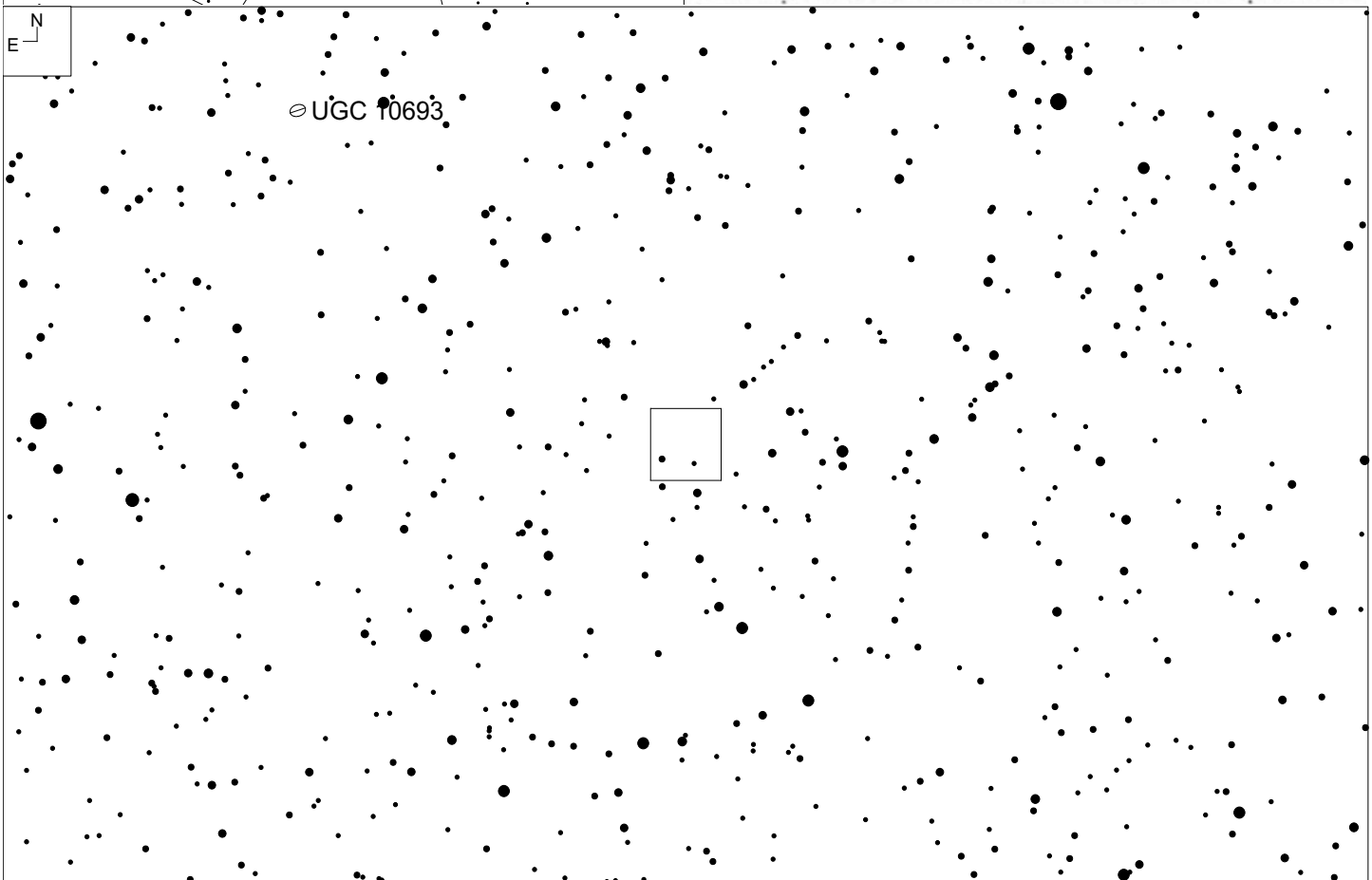
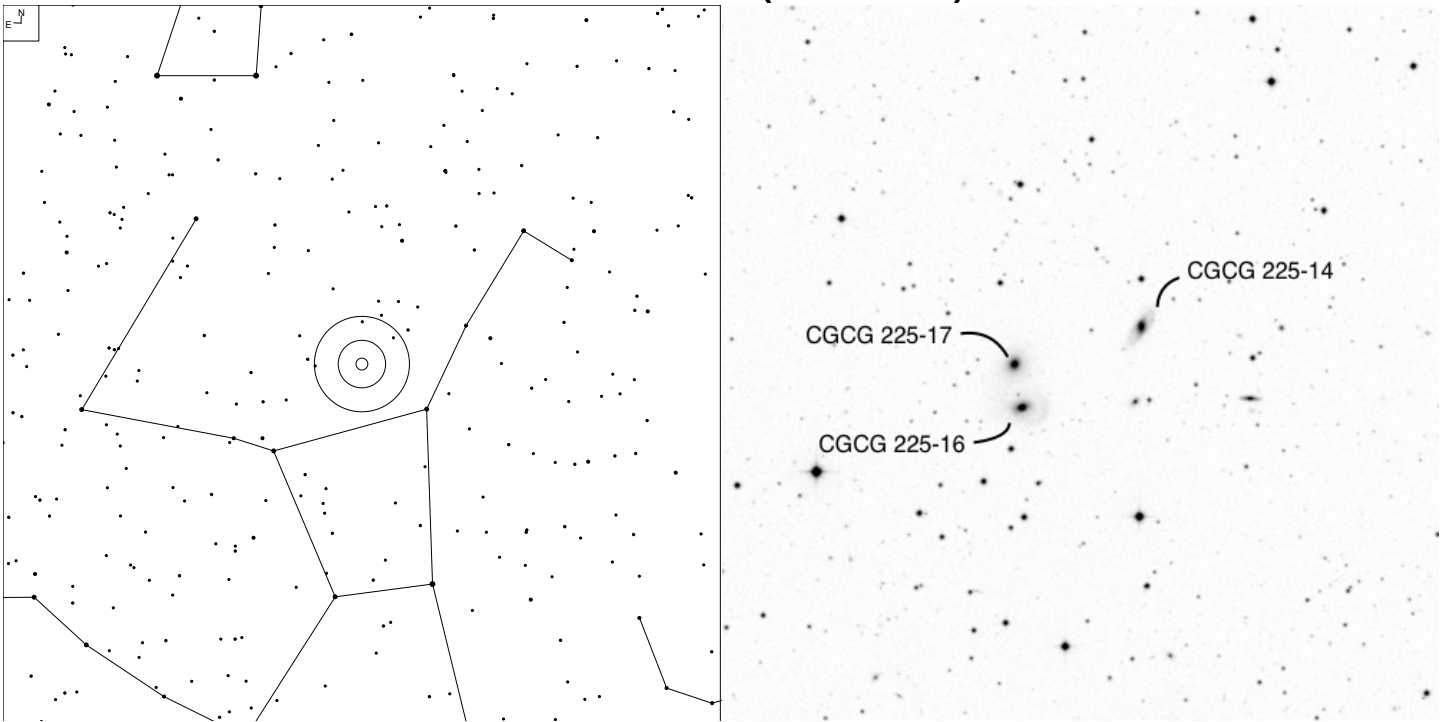
MCG+8-31-3 - Zwicky's Triplet (Hercules)



Object	RA	Dec	Mag	Size
MCG+8-31-3	16 49 28.1	+45 27 43	15.4	0.9 x 0.8'
MCG+8-31-3A			16.0	0.6 x 0.5'
PGC 59062			15.4	0.3 x 0.2'

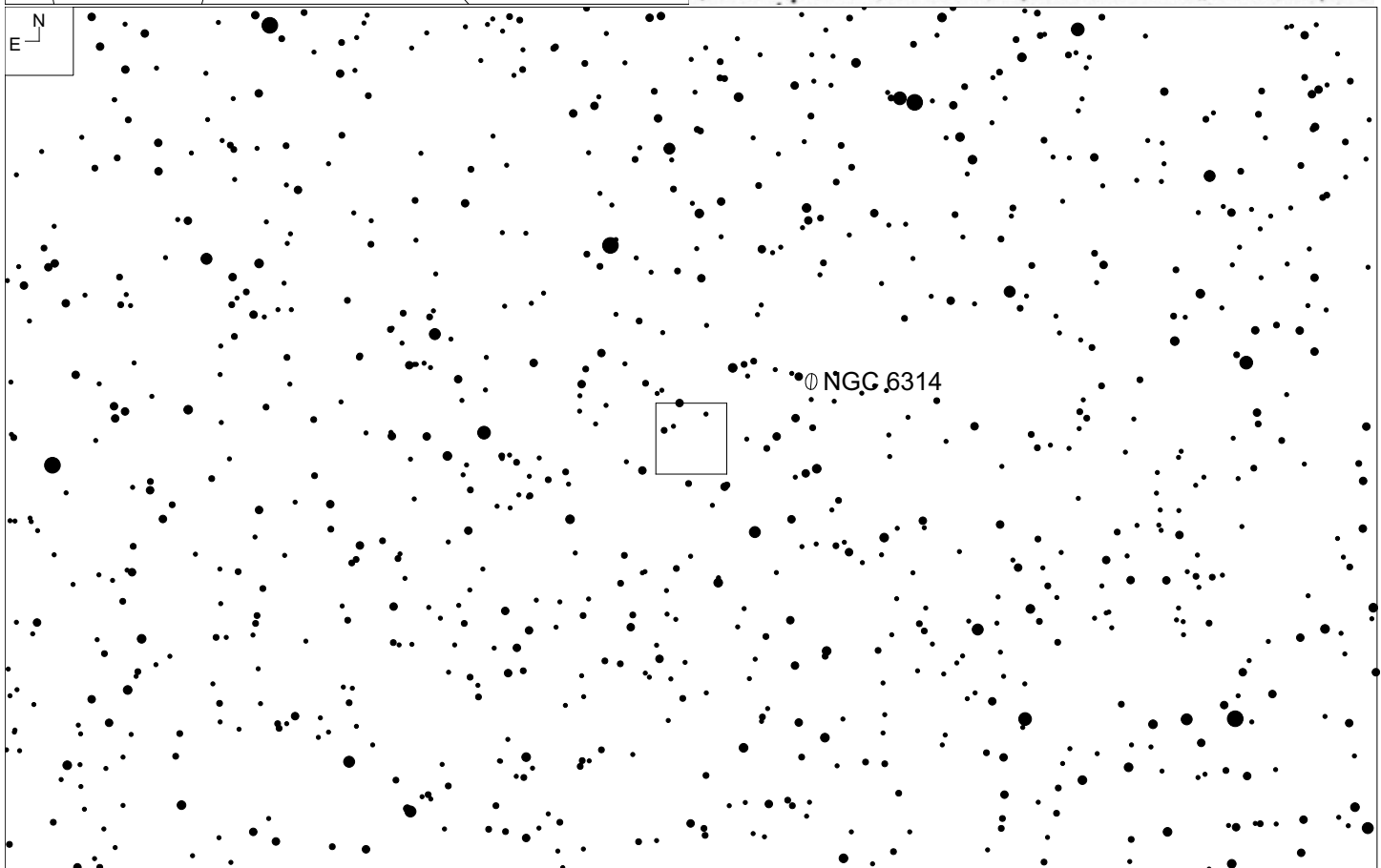
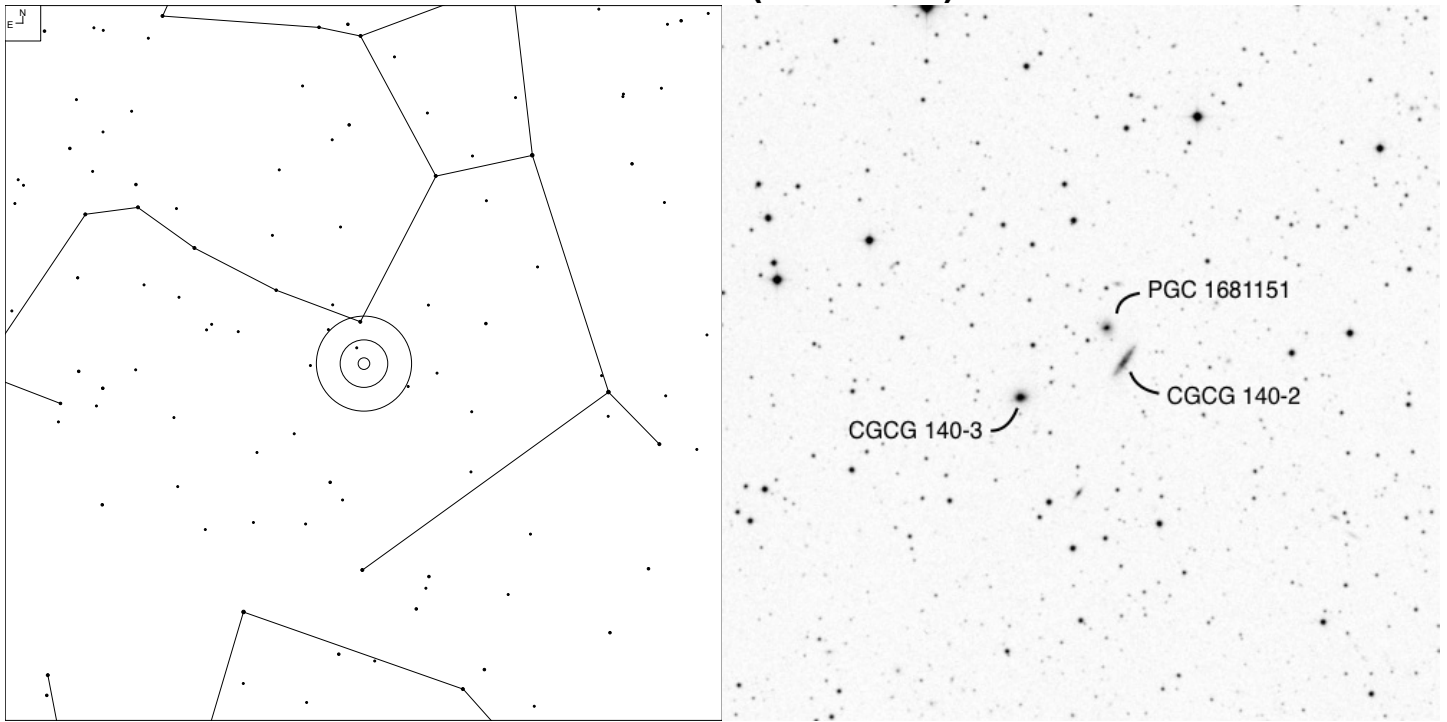
Miles Paul trio

CGCG 225-14 (Hercules)



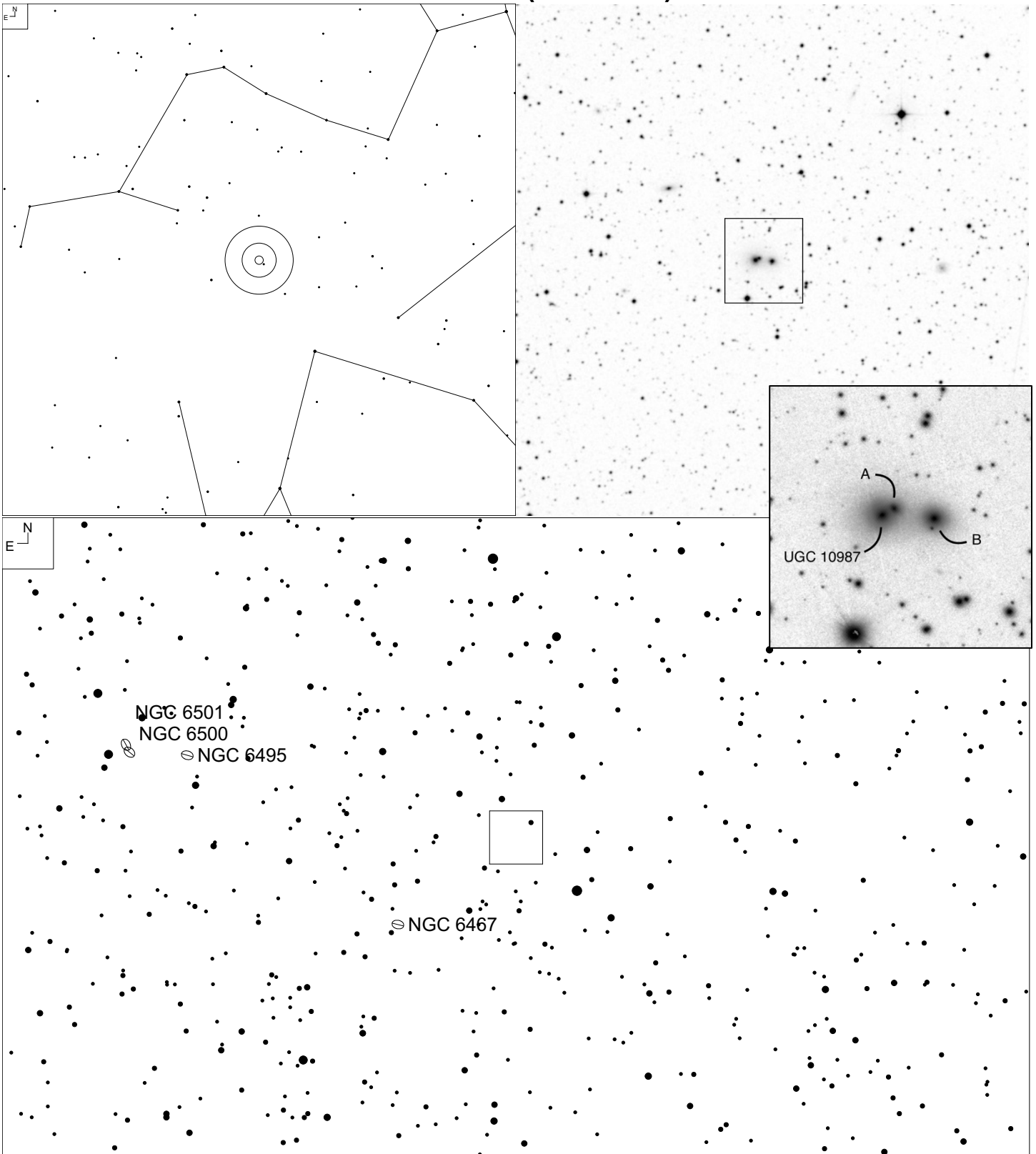
Object (KTG 66)	RA	Dec	Mag	Size
CGCG 225-14	16 57 26.7	+40 44 08	15.2	1.1 x 0.4'
CGCG 225-16			15.0	0.5 x 0.4'
CGCG 225-17			15.0	0.5 x 0.5'

CGCG 140-2 (Hercules)



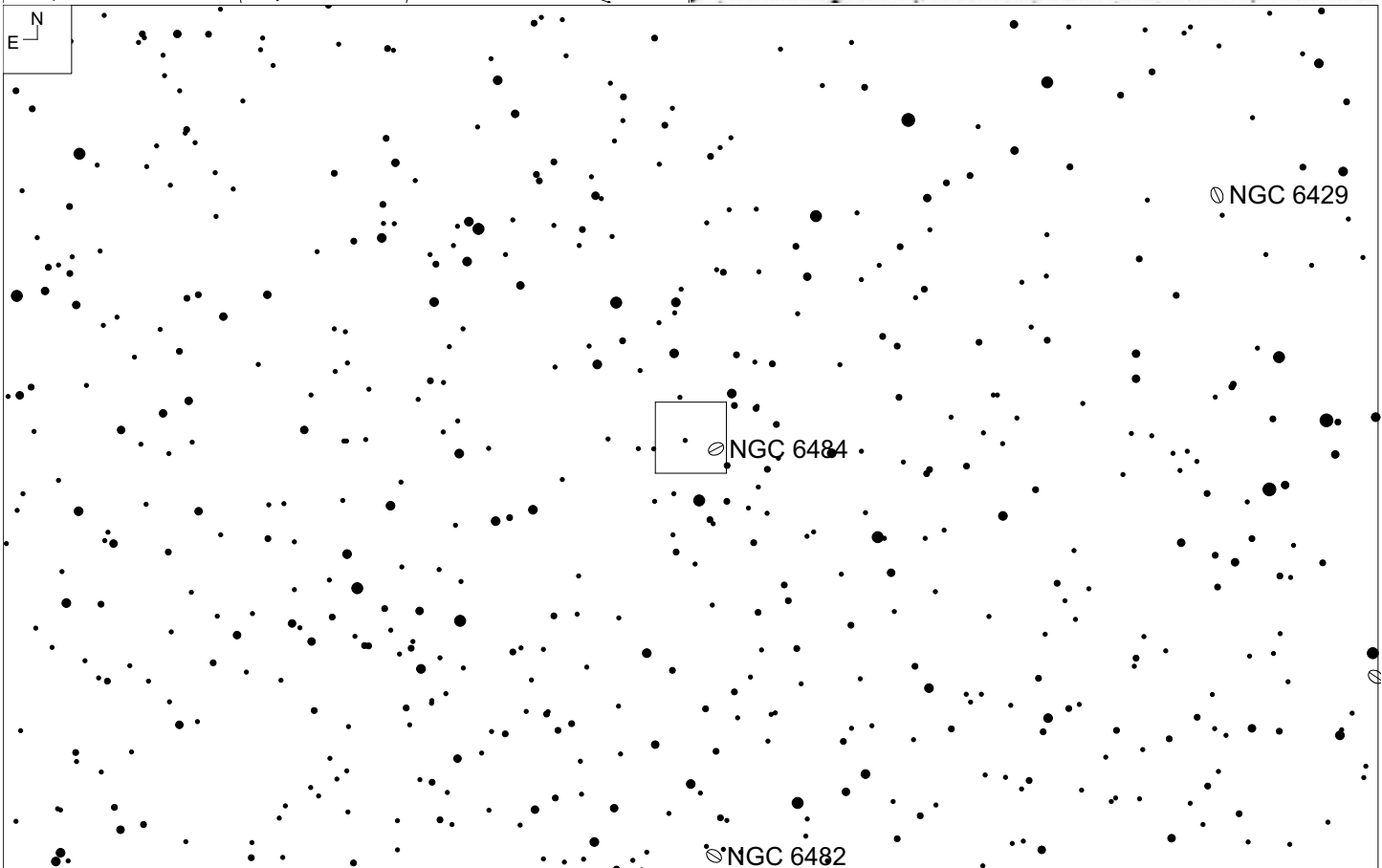
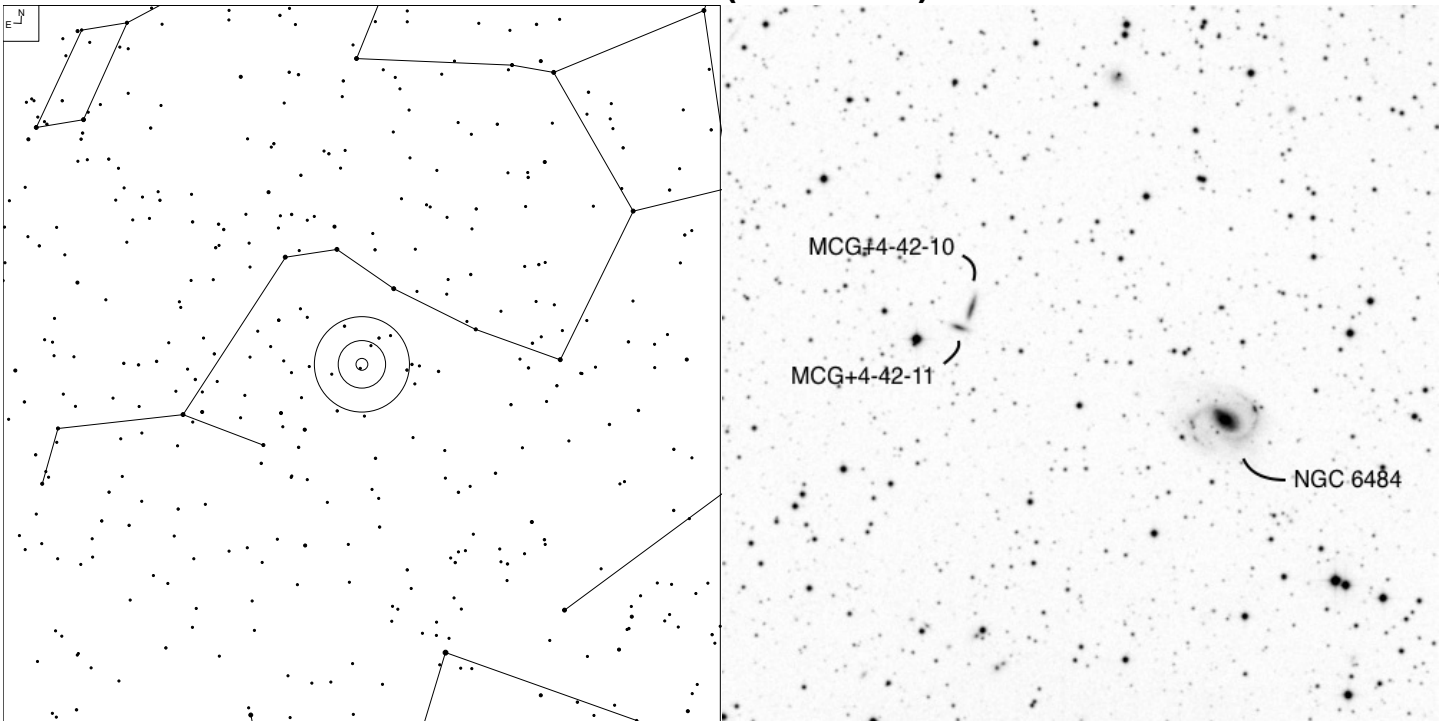
Object	RA	Dec	Mag	Size
CGCG 140-2	17 14 20.9	+23 04 19	15.5	0.8 x 0.3'
CGCG 140-3			15.3	0.4 x 0.3'
PGC 1681151			15.7g	0.5 x 0.3'

UGC 10987 (Hercules)



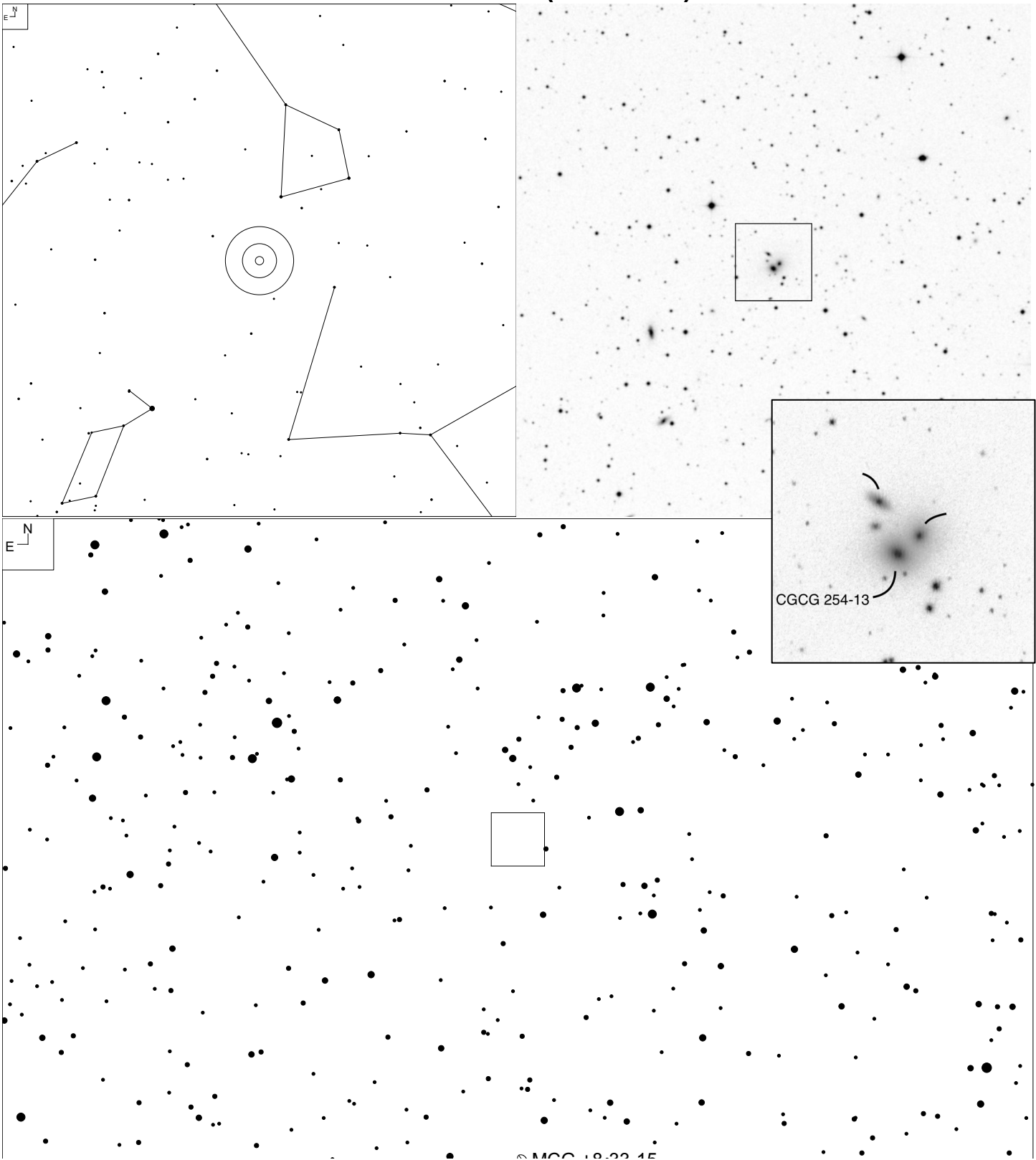
Object	RA	Dec	Mag	Size
UGC 10987	17 48 20.3	+17 56 53	15.1	0.5 x 0.4'
A			16.3*	
B			15.6*	0.4 x 0.4'

NGC 6484 (Hercules)



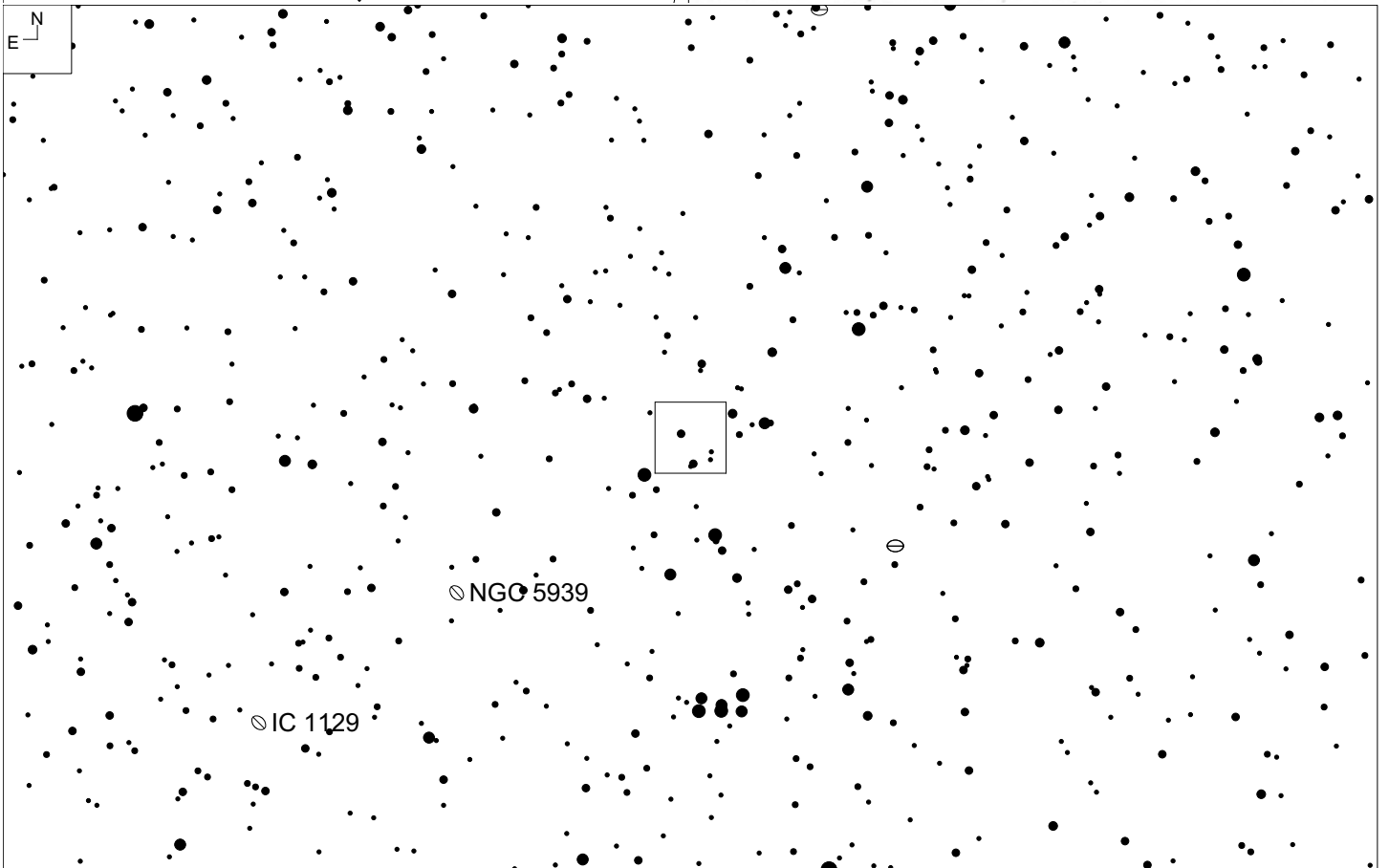
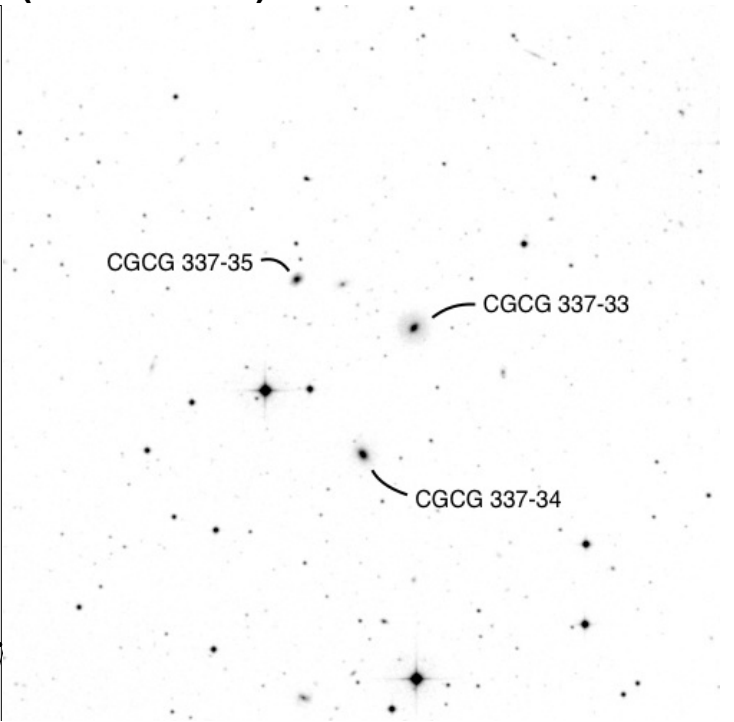
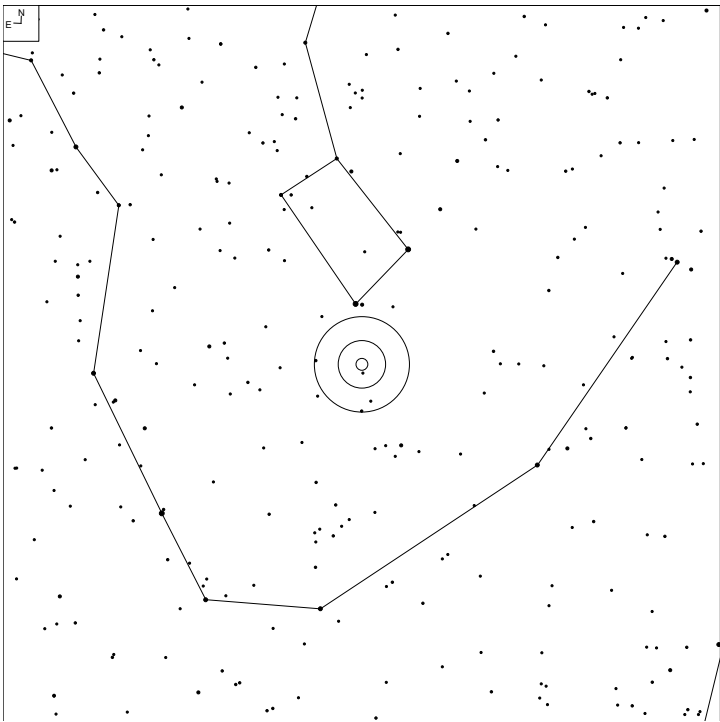
Object (KTG 67)	RA	Dec	Mag	Size
NGC 6484	17 51 46.9	+24 29 01	13.1p	1.9 x 1.6'
MCG+4-42-10			14.7	0.7 x 0.2'
MCG+4-42-11			15.2	0.6 x 0.2'

CGCG 254-13 (Hercules)



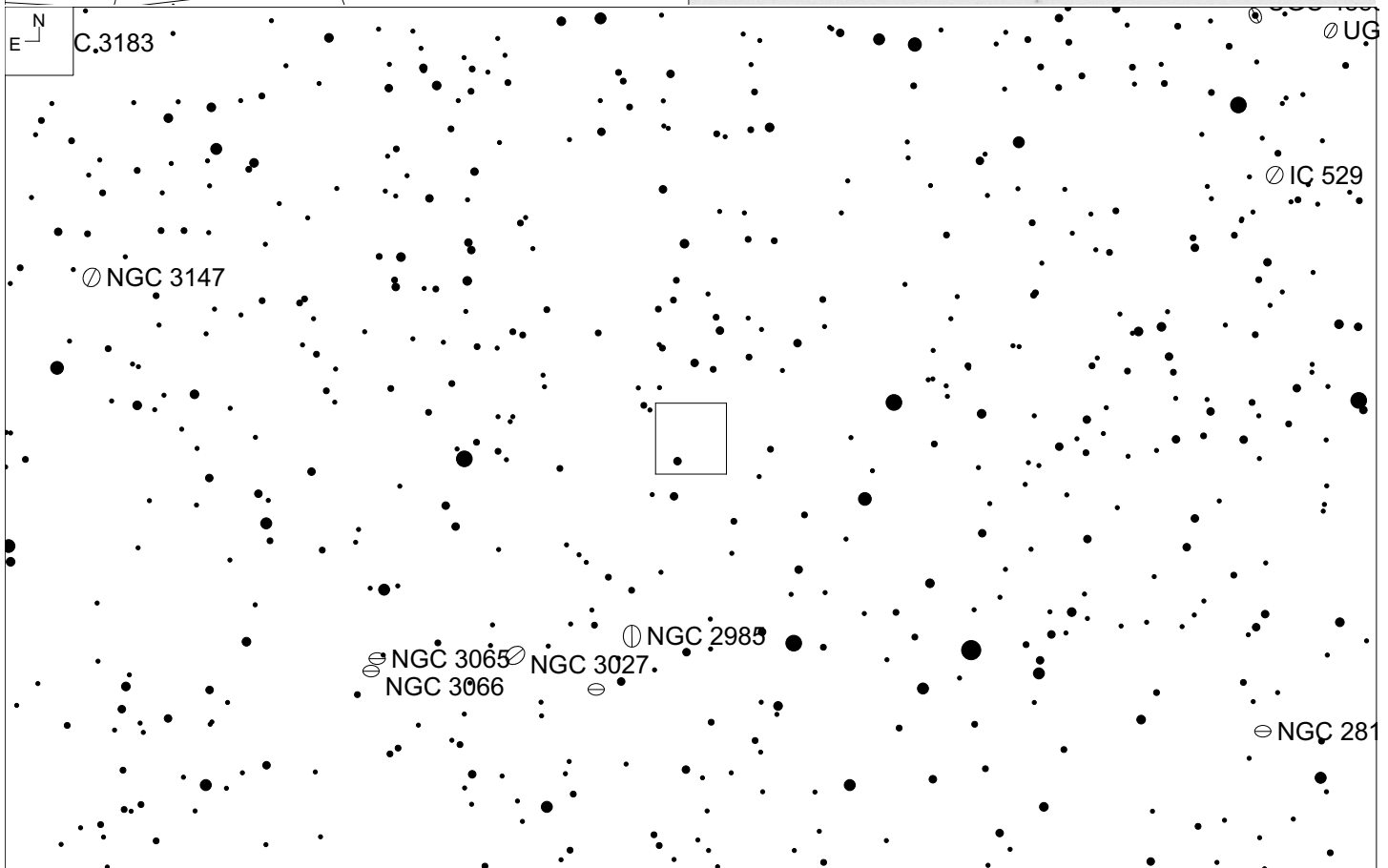
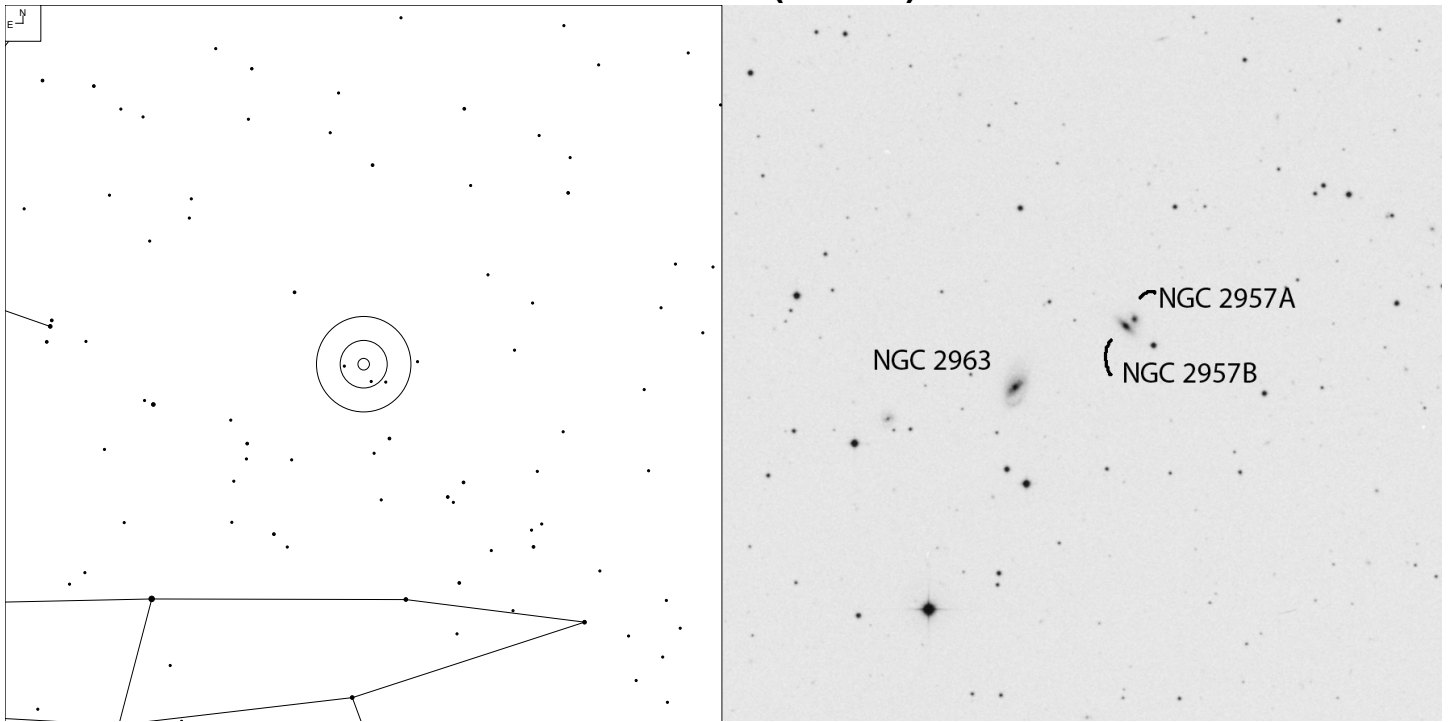
Object	RA	Dec	Mag	Size
CGCG 254-13	18 04 48.3	+47 45 25	15.6	0.5 x 0.5'
“upper right”			16.2*	
“upper left”			17.1*	

CGCG 337-33 (Ursa Minor)



Object (KTG 59)	RA	Dec	Mag	Size
CGCG 337-33	15 15 36.0	+69 18 56	15.0	1.1 x 1.1'
CGCG 337-34			15.2	0.3 x 0.2'
CGCG 337-35			15.7	0.3 x 0.2'

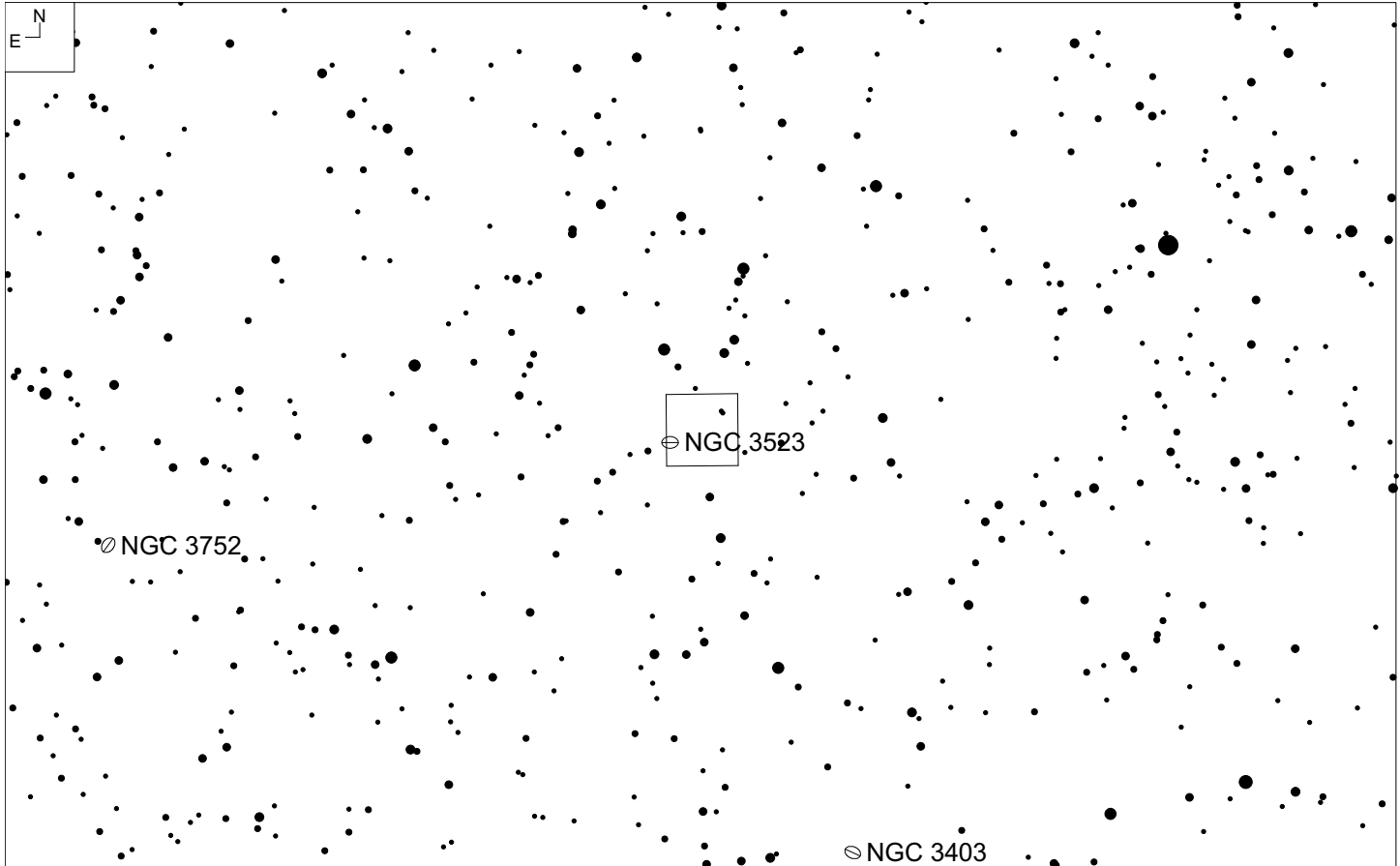
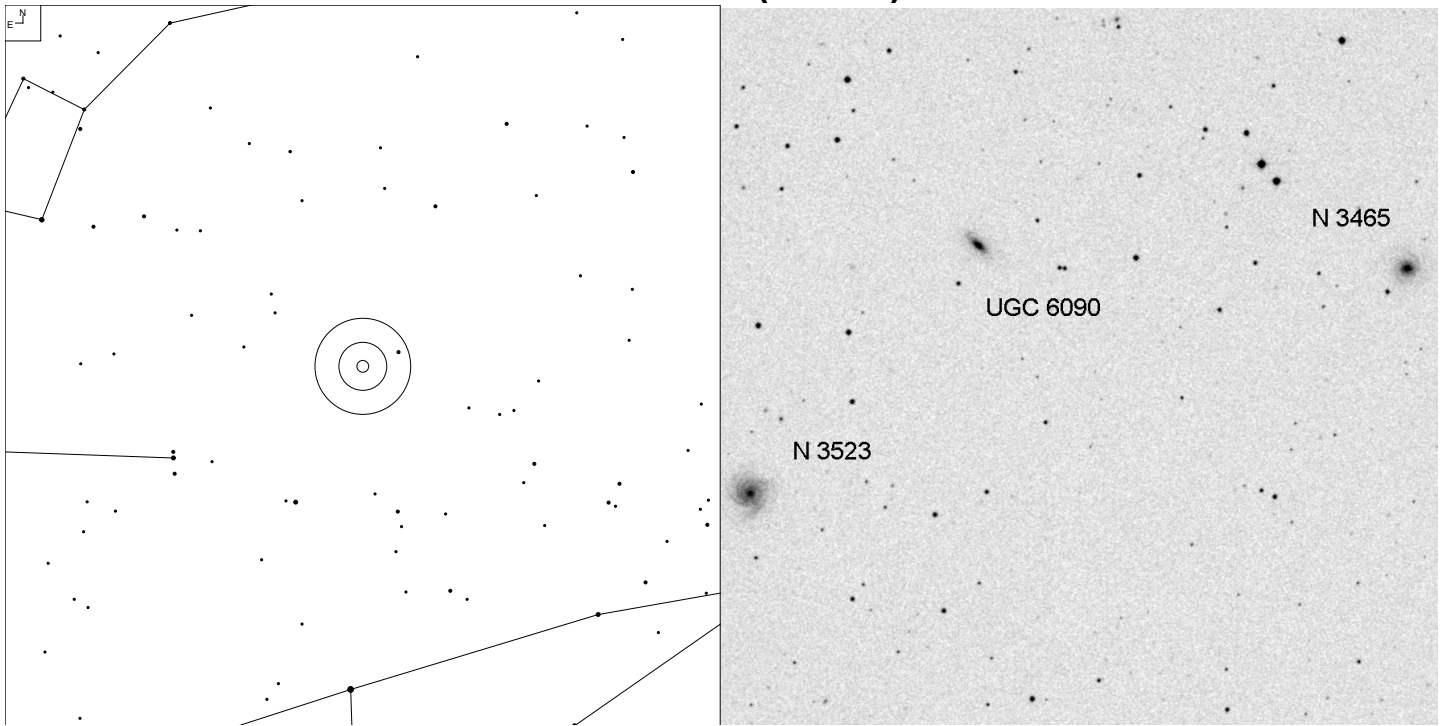
NGC 2957A (Draco)



Object	RA	Dec	Mag	Size
NGC 2957A	09 47 15.4	+72 59 10	15.4	0.7 x 0.3'
NGC 2957B			15.7b	0.8 x 0.3'
NGC 2963			14.3	1.2 x 0.5'

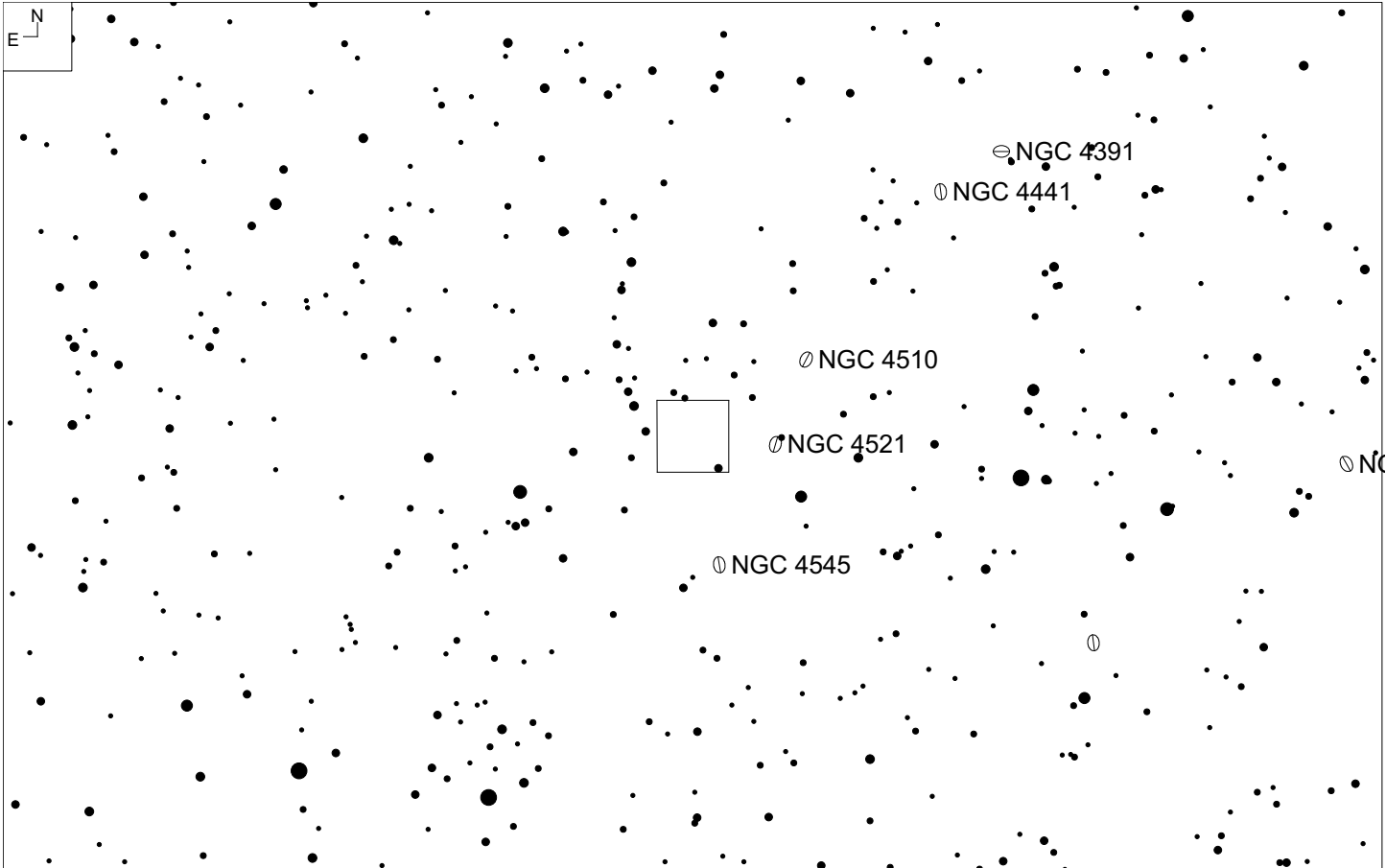
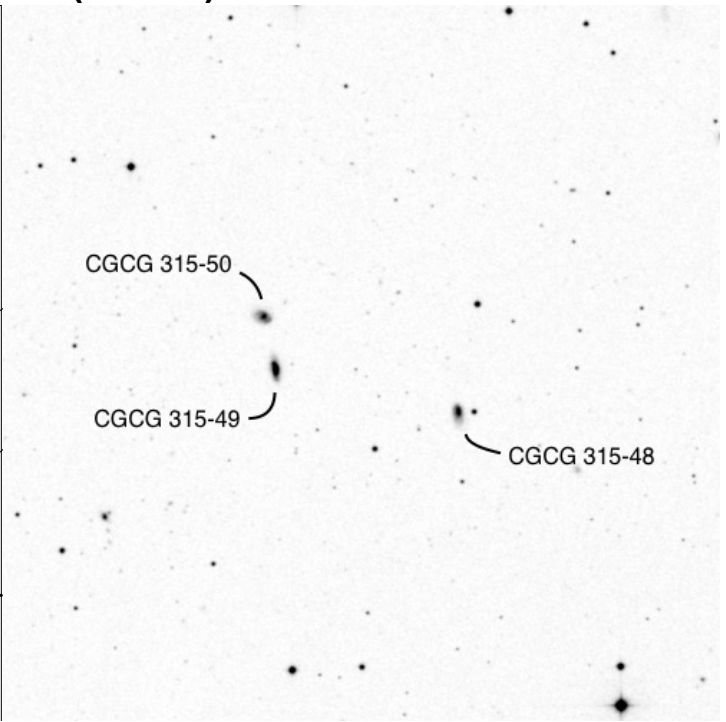
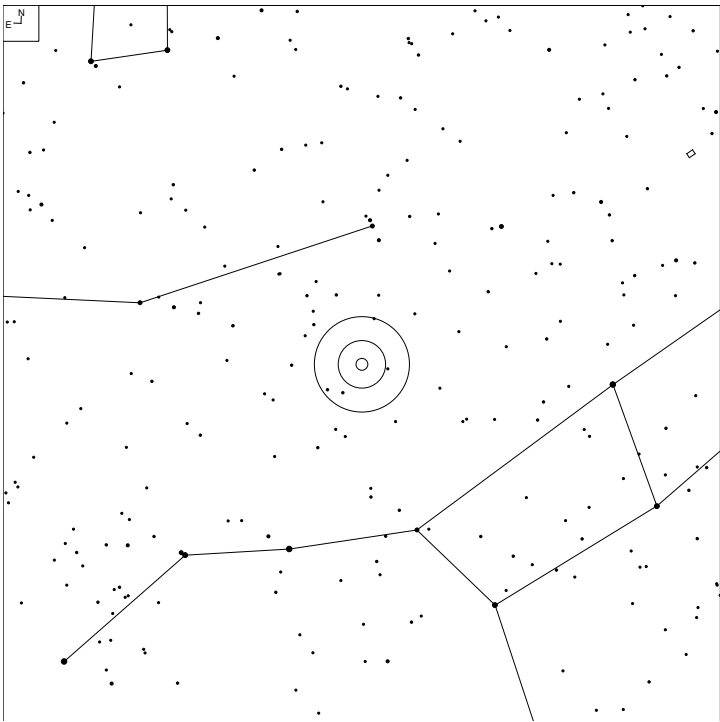
Miles Paul trio

NGC 3465 (Draco)



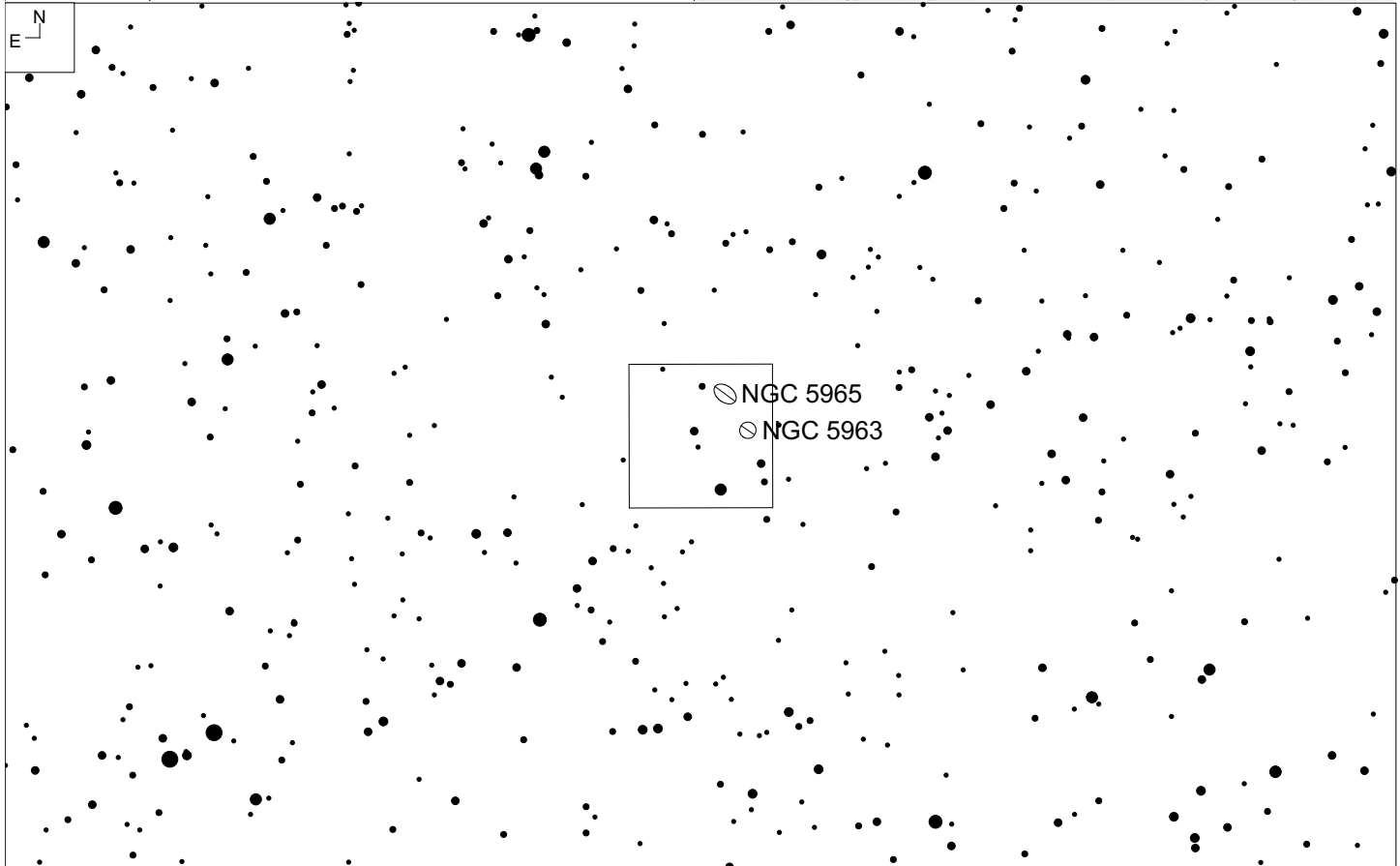
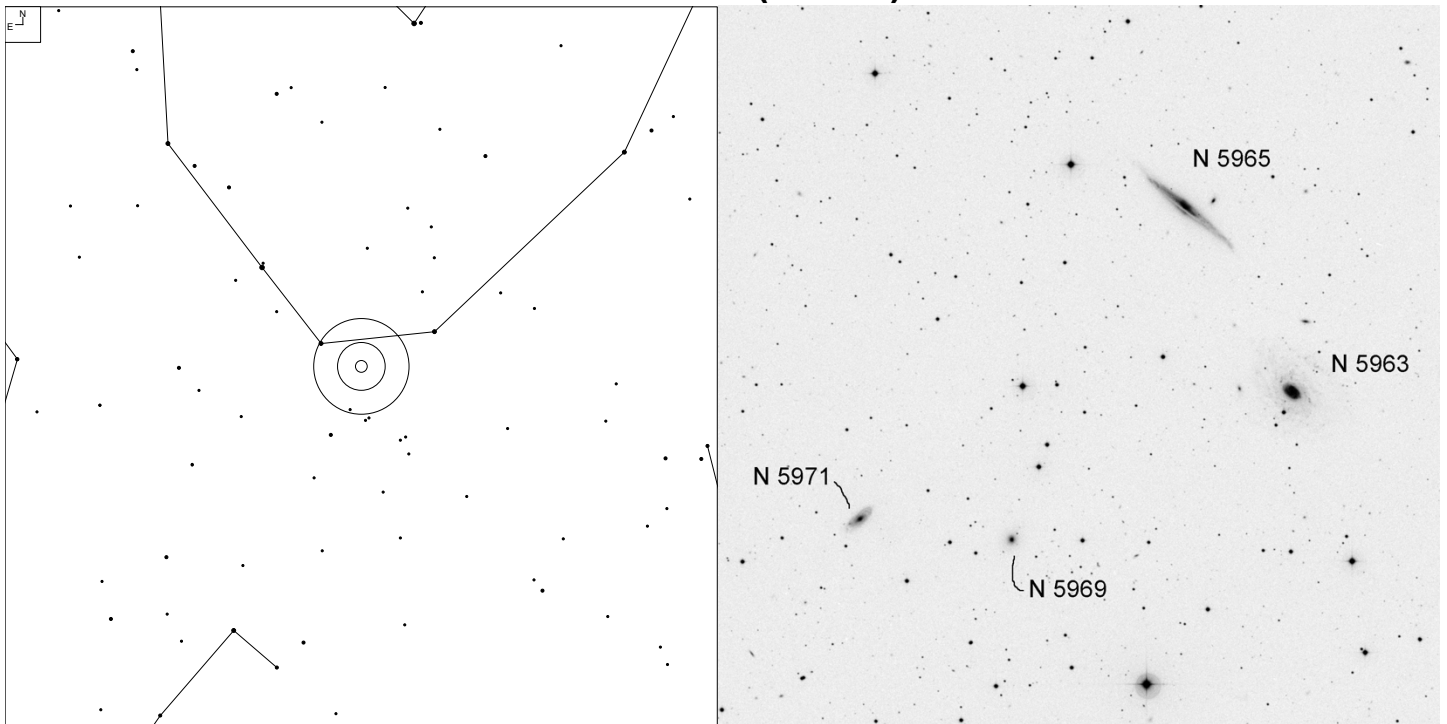
Object (KTG 34)	RA	Dec	Mag	Size
NGC 3465	11 01 18.8	+75 09 30	14.4	1.2 x 0.9'
NGC 3523			13.6	1.5'
UGC 6090			14.4	1.3 x 0.6'

CGCG 315-48 (Draco)



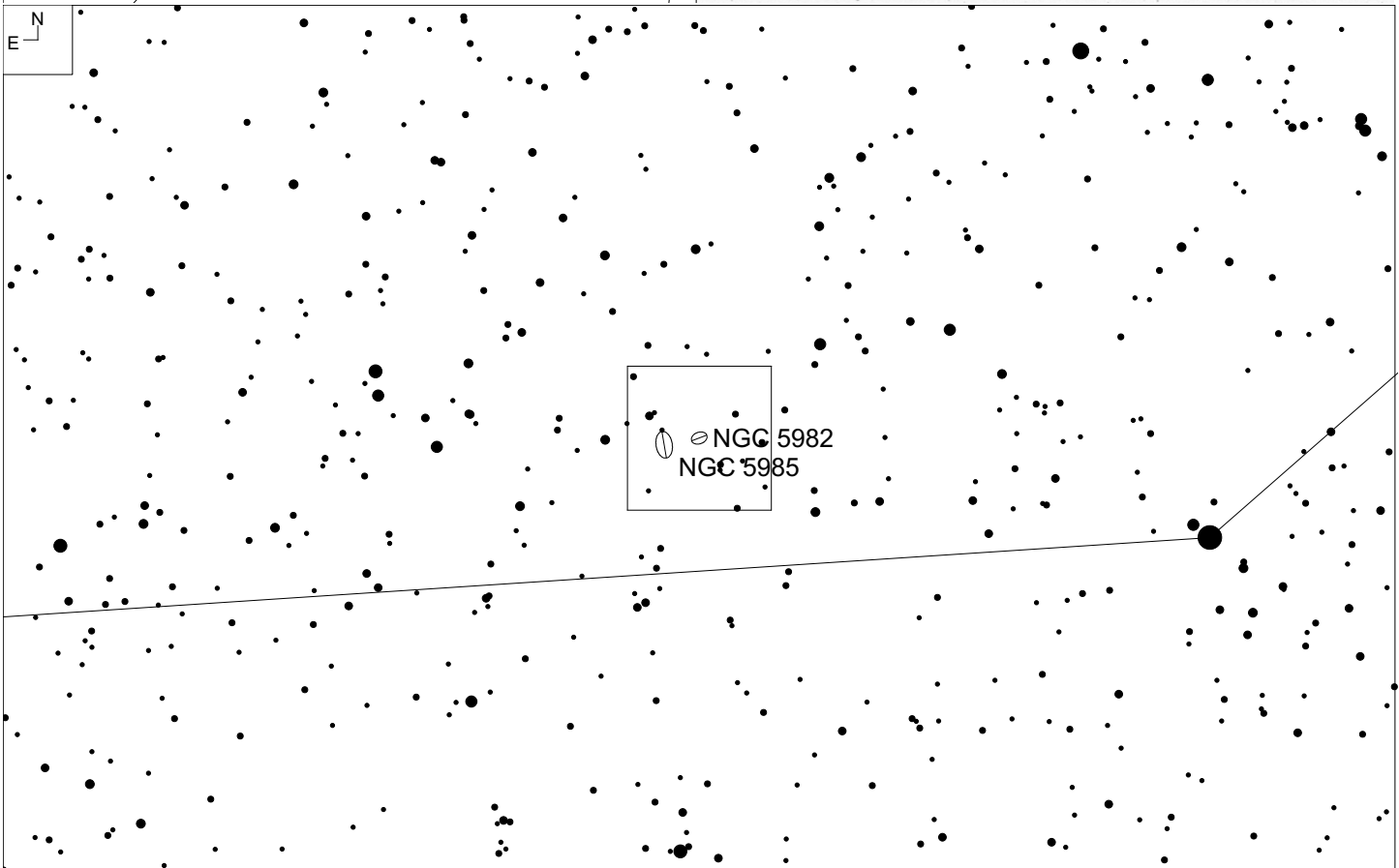
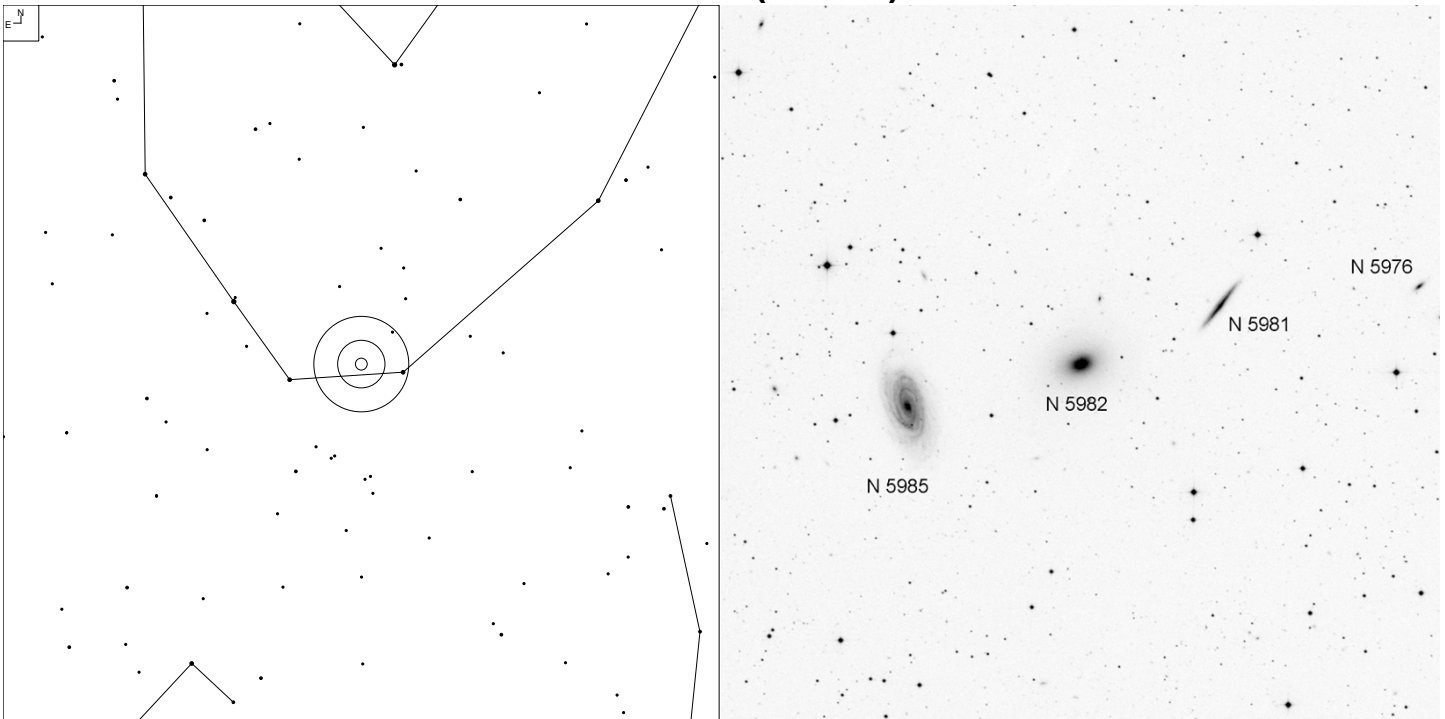
Object (KTG 44)	RA	Dec	Mag	Size
CGCG 315-48	12 35 07.1	+63 57 37	15.7	0.5 x 0.2'
CGCG 315-49			15.1	0.6 x 0.2'
CGCG 315-50			15.3	0.4 x 0.3'

NGC 5965 (Draco)



Object (KTG 63)	RA	Dec	Mag	Size
NGC 5965	15 34 32.5	+56 34 25	12.6	5.2 x 0.7'
NGC 5963			13.1	3.3 x 2.5'
NGC 5971			14.7	1.5 x 0.5'
NGC 5969			15.4b	0.8 x 0.6'

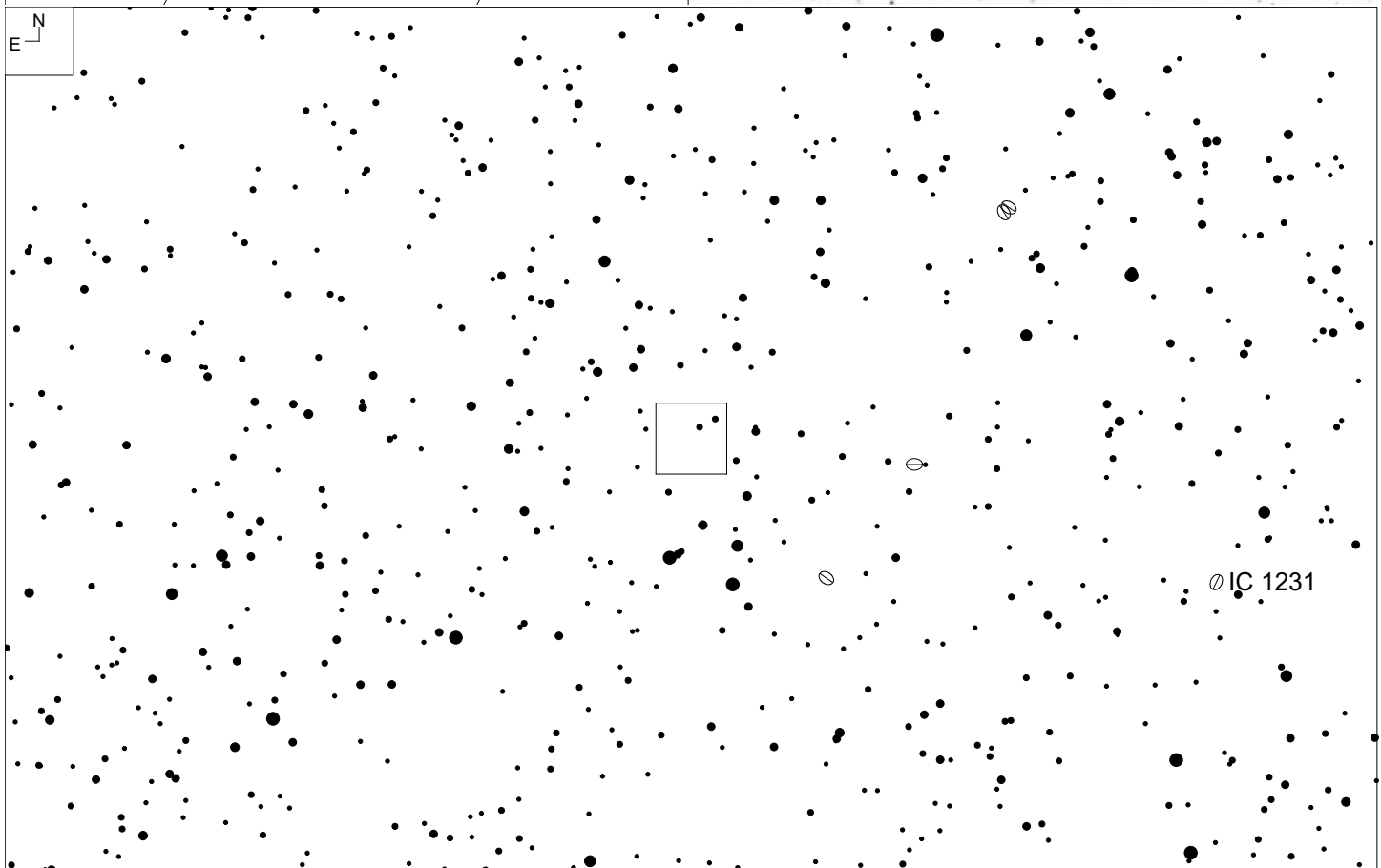
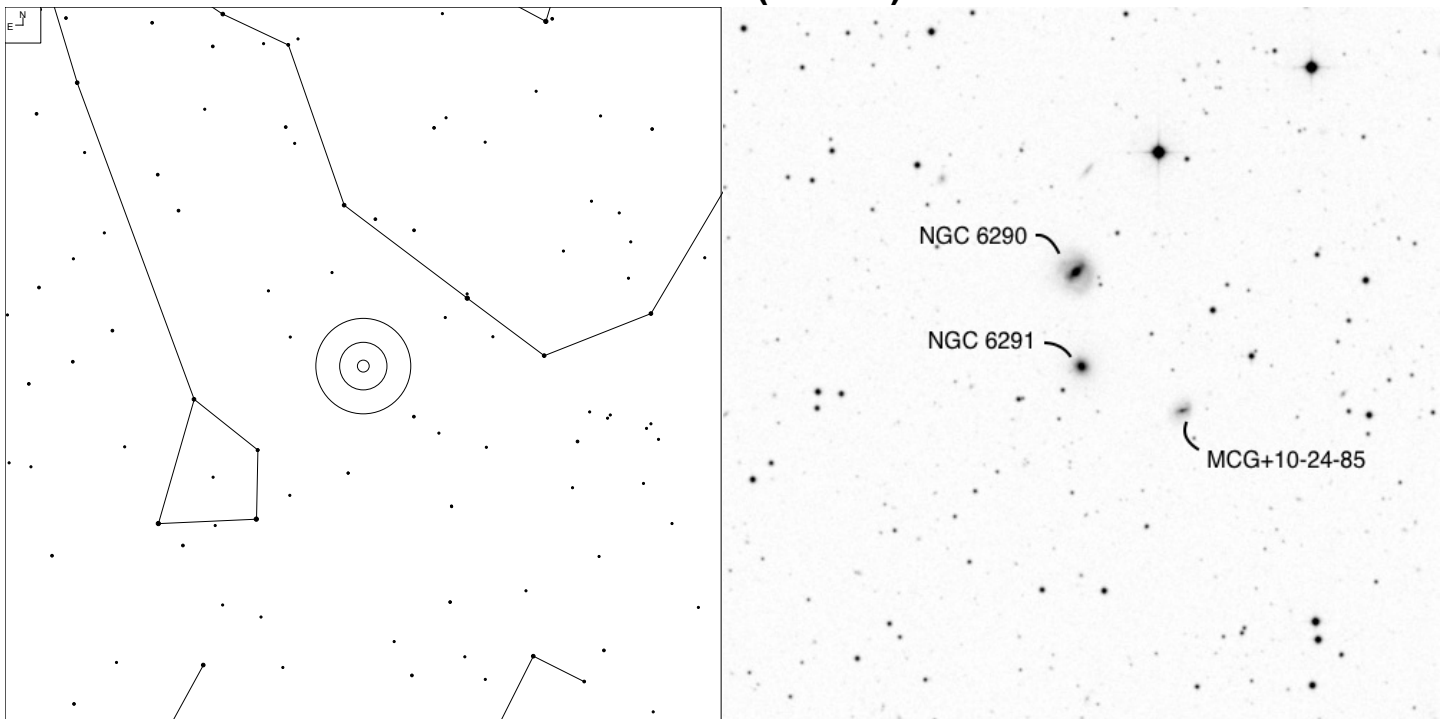
NGC 5982 (Draco)



Object (KTG 64)	RA	Dec	Mag	Size
NGC 5982	15 38 39.8	+59 21 21	12.0b	2.5 x 1.8'
NGC 5981			13.9p	3.1 x 0.6'
NGC 5985			11.9b	5.5 x 2.9'
NGC 5976			15.8b	1.1 x 0.3'

Miles Paul and Astronomical League trio

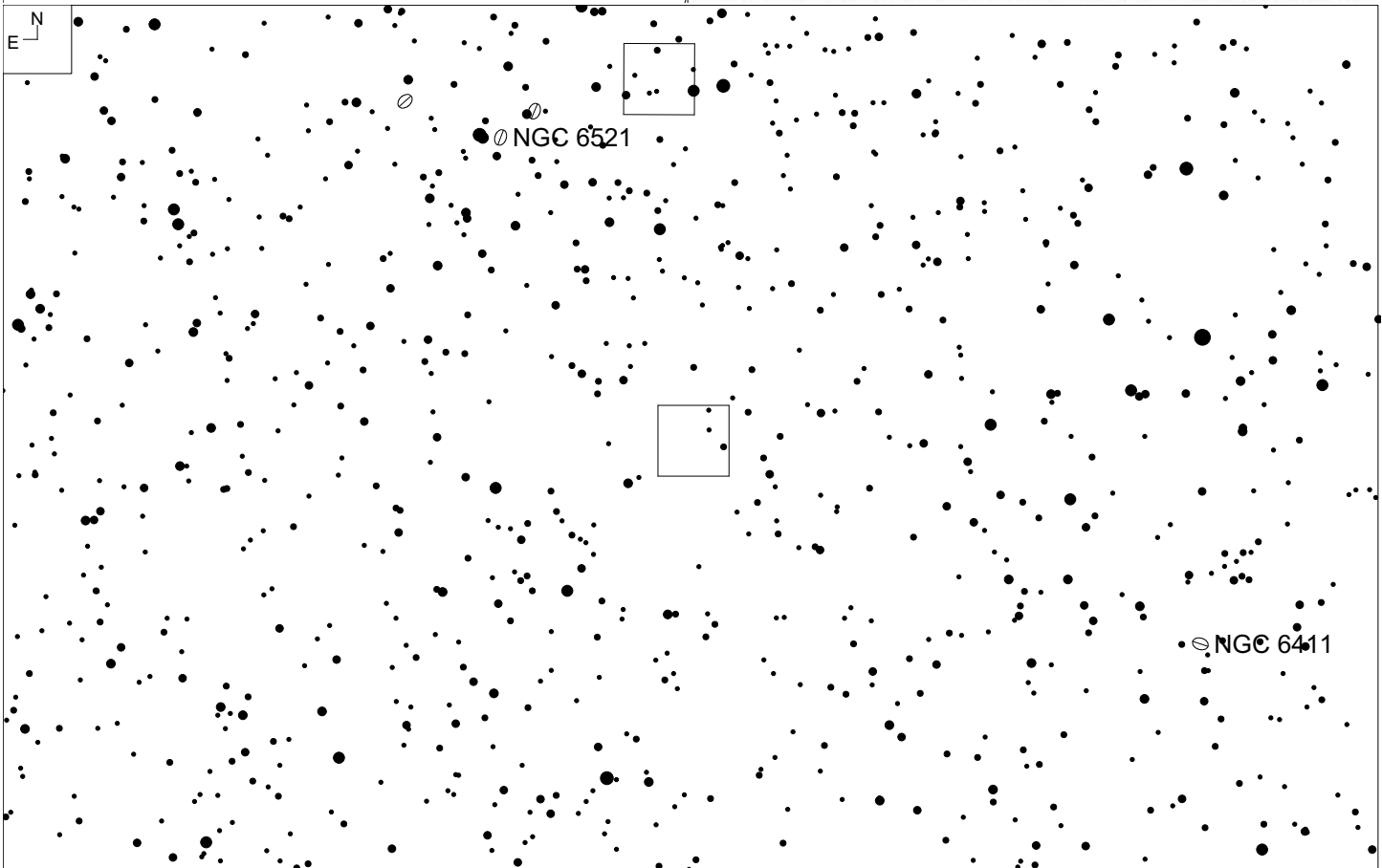
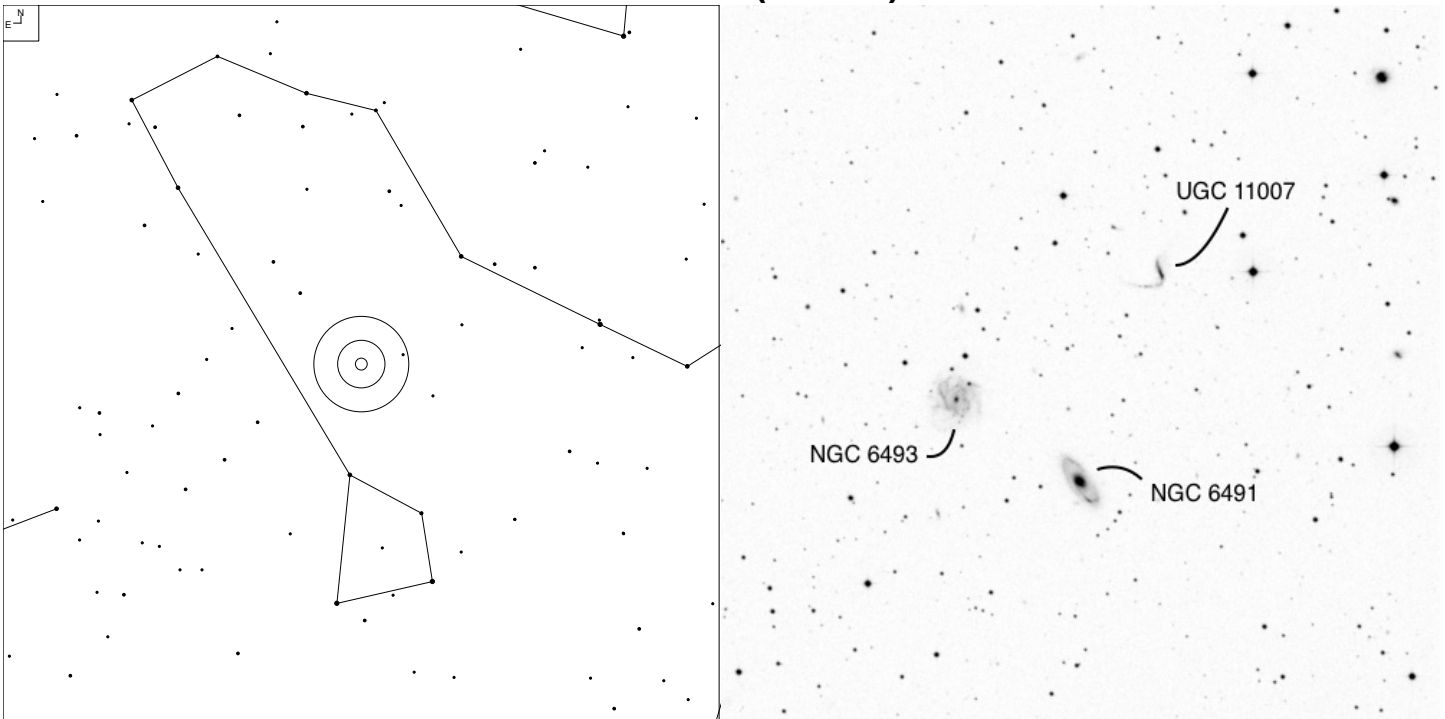
NGC 6290 (Draco)



Object	RA	Dec	Mag	Size
NGC 6290	17 00 56.6	+58 58 15	14.5b	1.4 x 0.9'
NGC 6291			14.8b	0.6 x 0.6'
MCG+10-24-85			16.4b	0.6 x 0.5'

Miles Paul trio

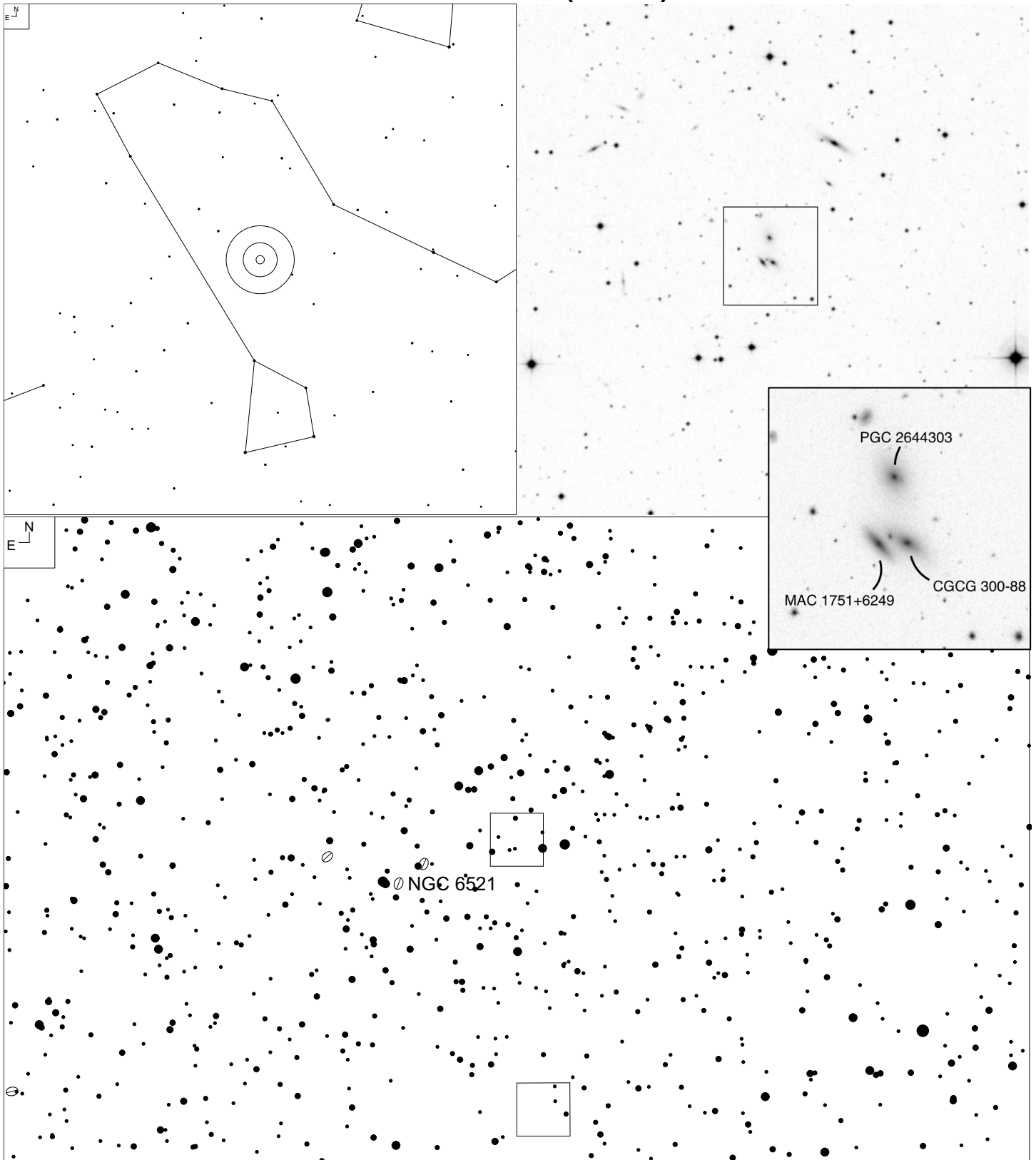
NGC 6491 (Draco)



Object	RA	Dec	Mag	Size
NGC 6491	17 50 00.7	+61 31 53	14.5p	1.2 x 0.5'
NGC 6493			15.1p	1.1 x 1.0'
UGC 11007			15.2	1.0 x 0.6'

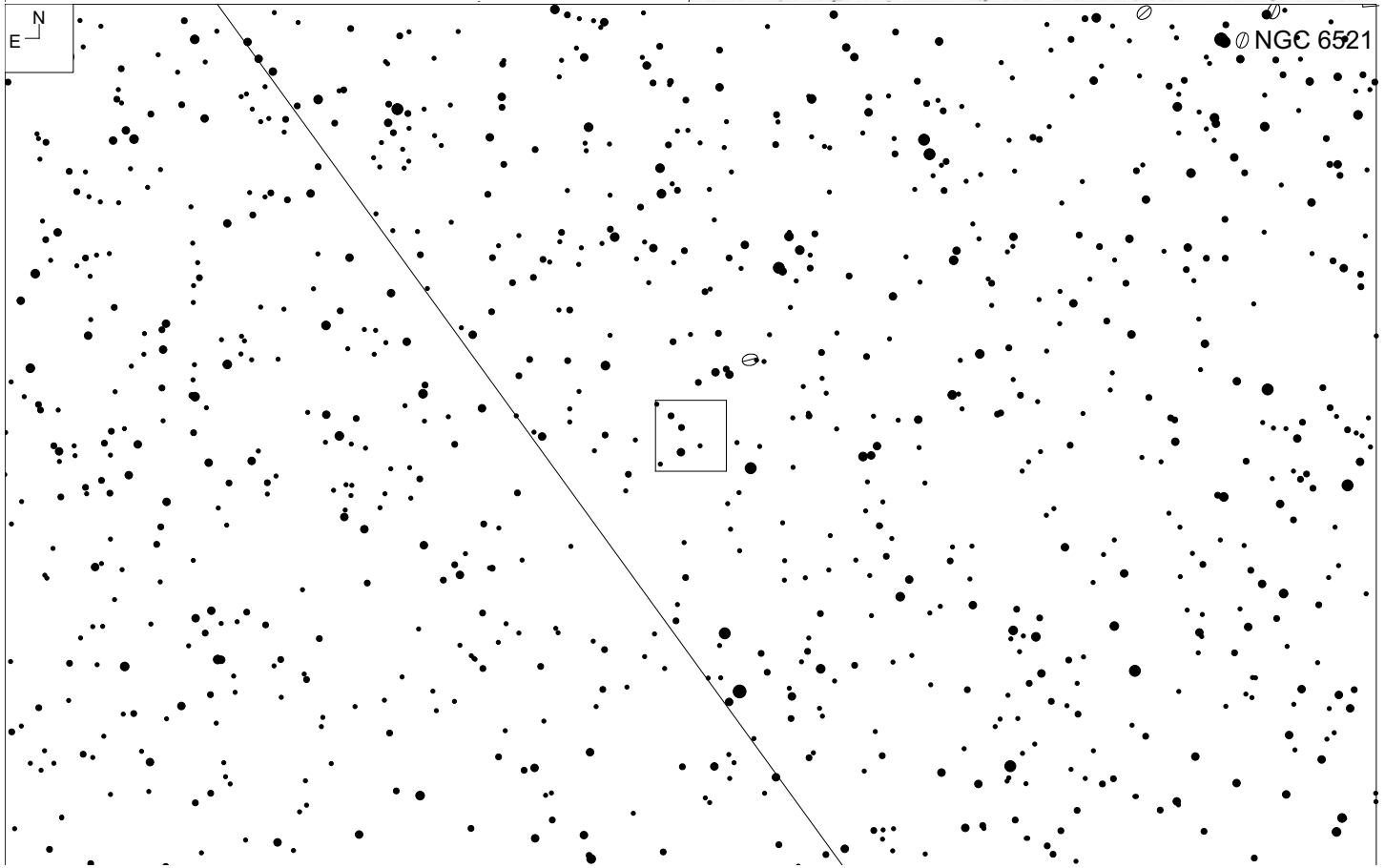
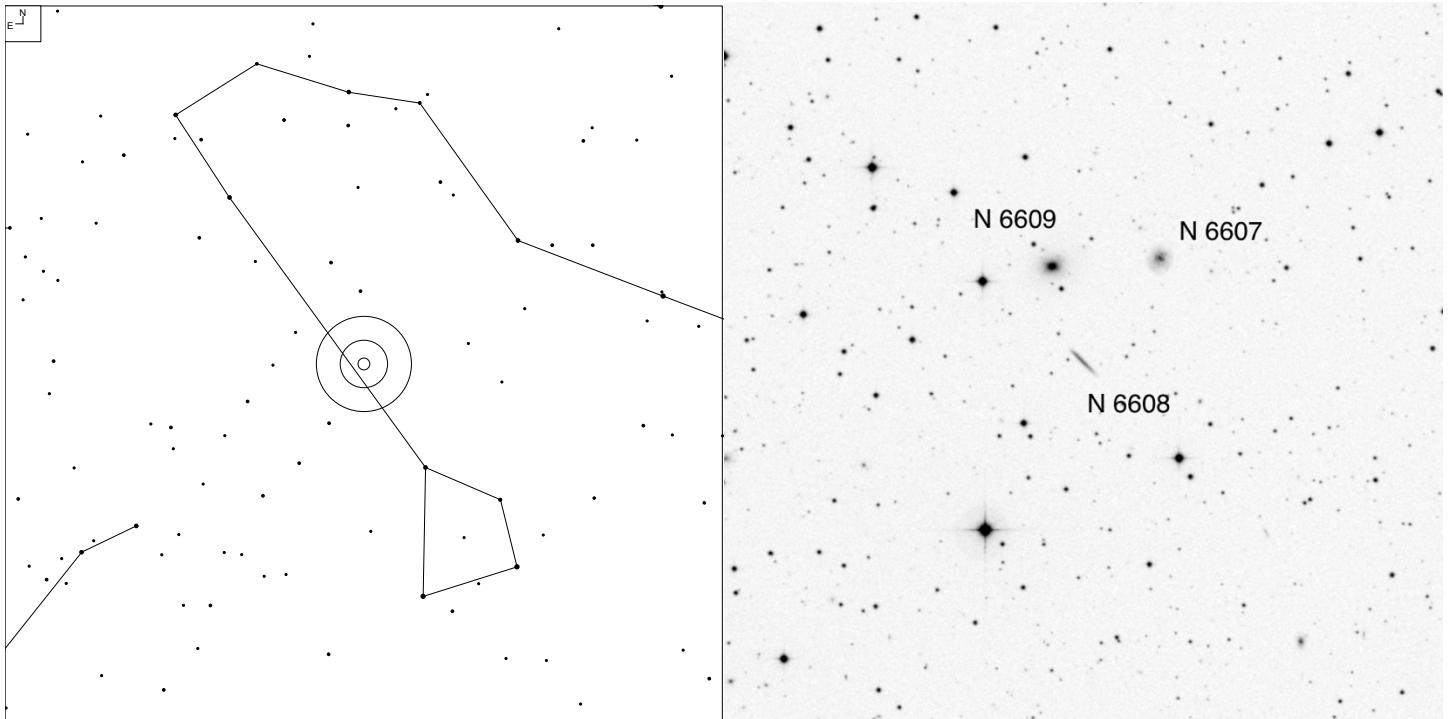
Miles Paul trio

CGCG 300-88 (Draco)



Object	RA	Dec	Mag	Size
CGCG 300-88	17 51 01.4	+62 49 19	15.6	0.3 x 0.1'
MAC 1751+6249			16.0	0.3 x 0.2'
PGC 2644303			16.9*	0.2'

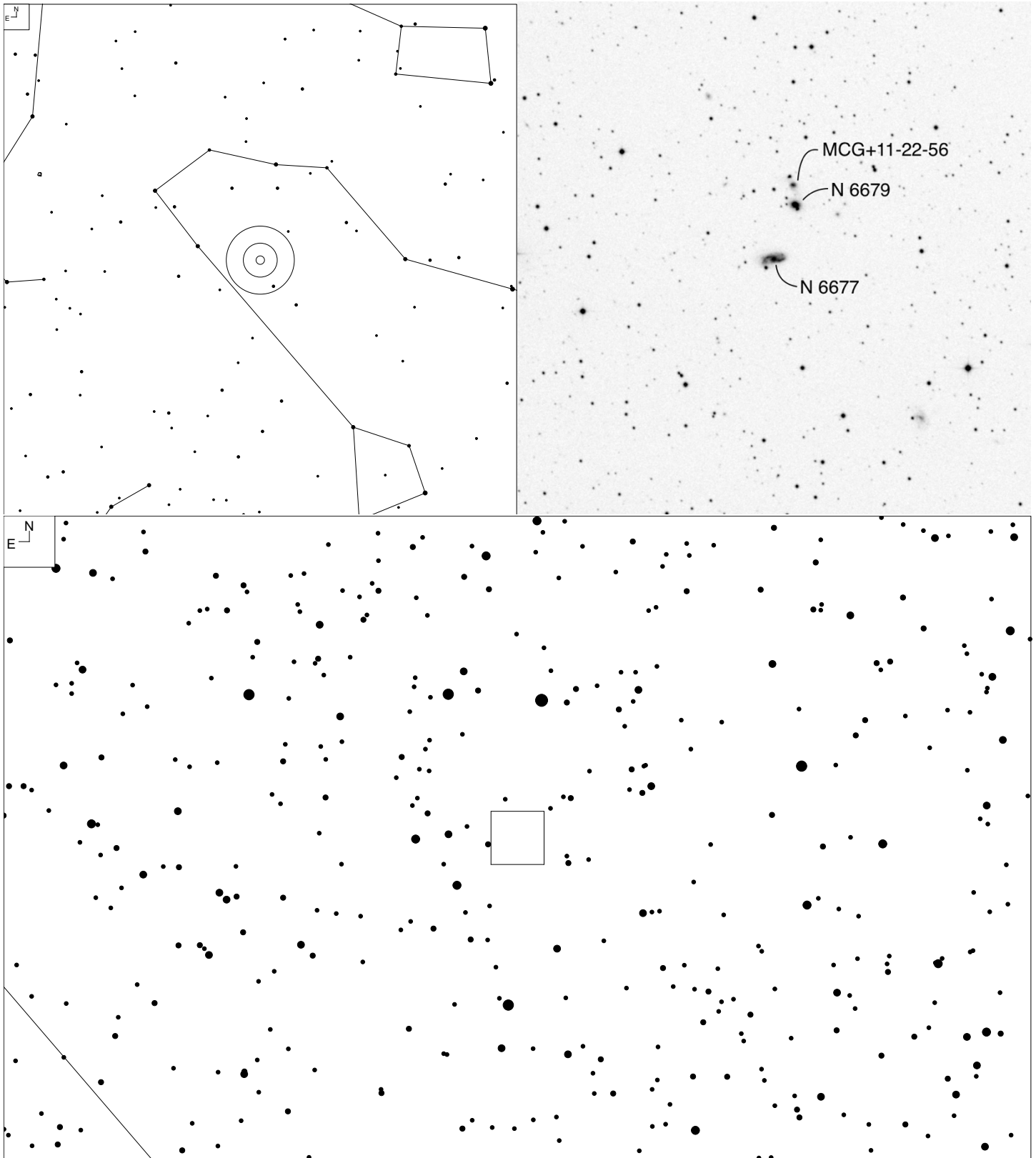
NGC 6609 (Draco)



Object	RA	Dec	Mag	Size
NGC 6609	18 12 33.6	+61 19 54	15.3	0.7 x 0.7'
NGC 6608			16.0	1.0 x 0.1'
NGC 6607			15.6	0.7 x 0.6'

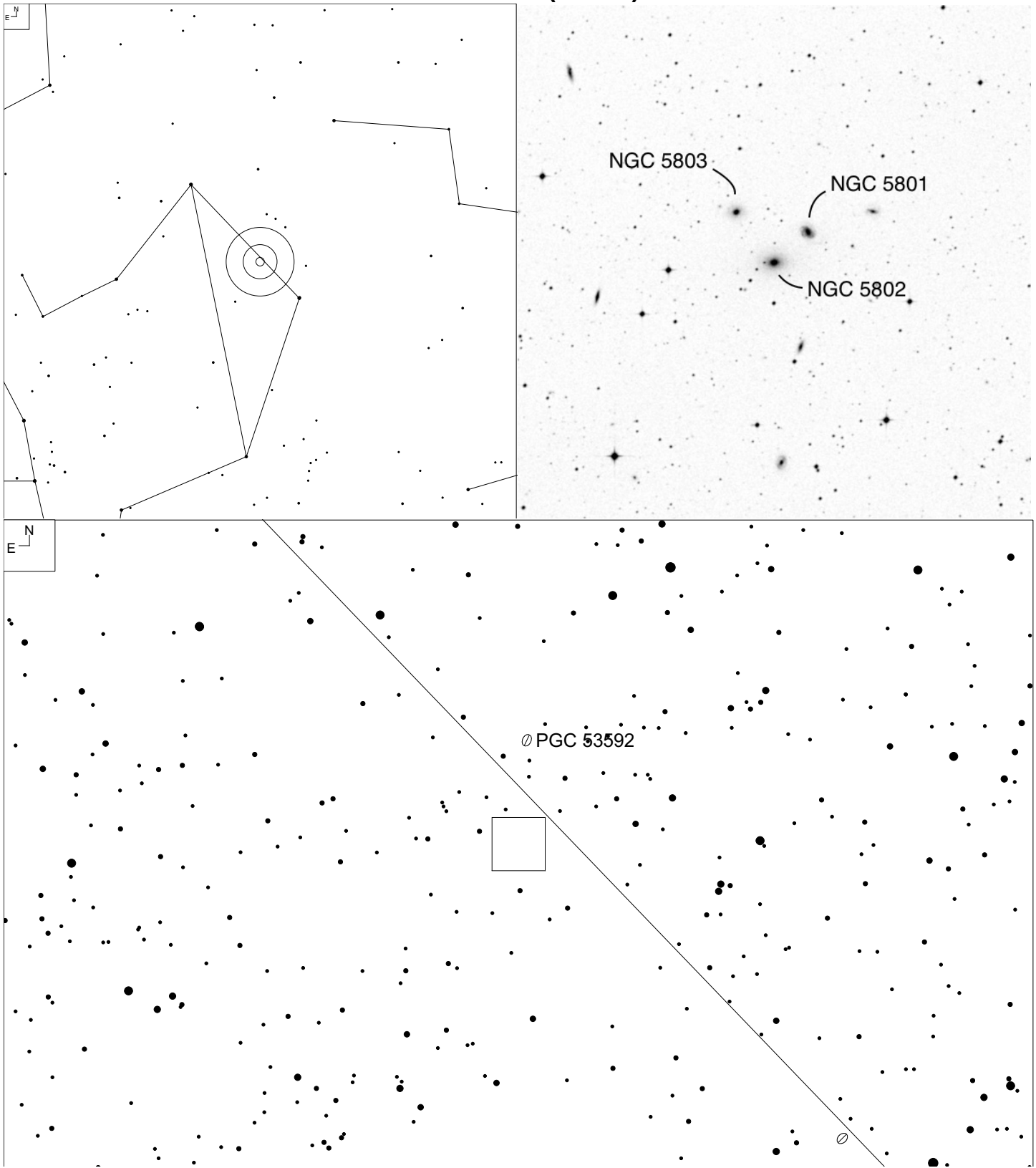
Miles Paul and Astronomical League trio

NGC 6677 (Libra)



Object	RA	Dec	Mag	Size
NGC 6677	18 33 34.3	+67 07 29	14.2p	0.9 x 0.3'
NGC 6679			13.6	0.4 x 0.3'
MCG+11-22-56			15.8	0.3 x 0.2'

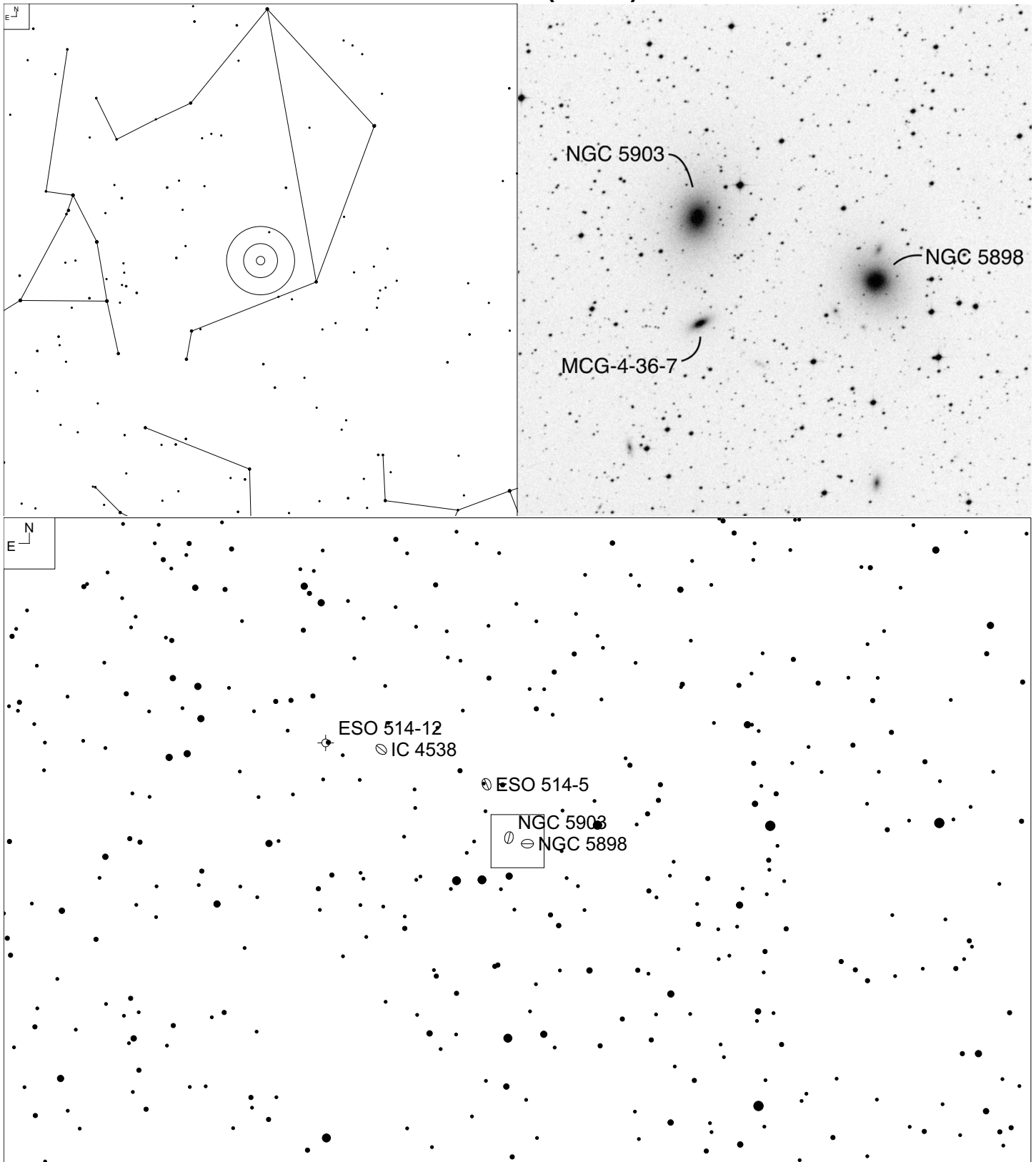
NGC 5802 (Libra)



Object	RA	Dec	Mag	Size
NGC 5802	15 00 30.1	-13 55 09	15.5	0.9 x 0.5'
NGC 5801			15.7	0.7 x 0.5'
NGC 5803			15.9	0.5 x 0.5'

Miles Paul and Astronomical League trio

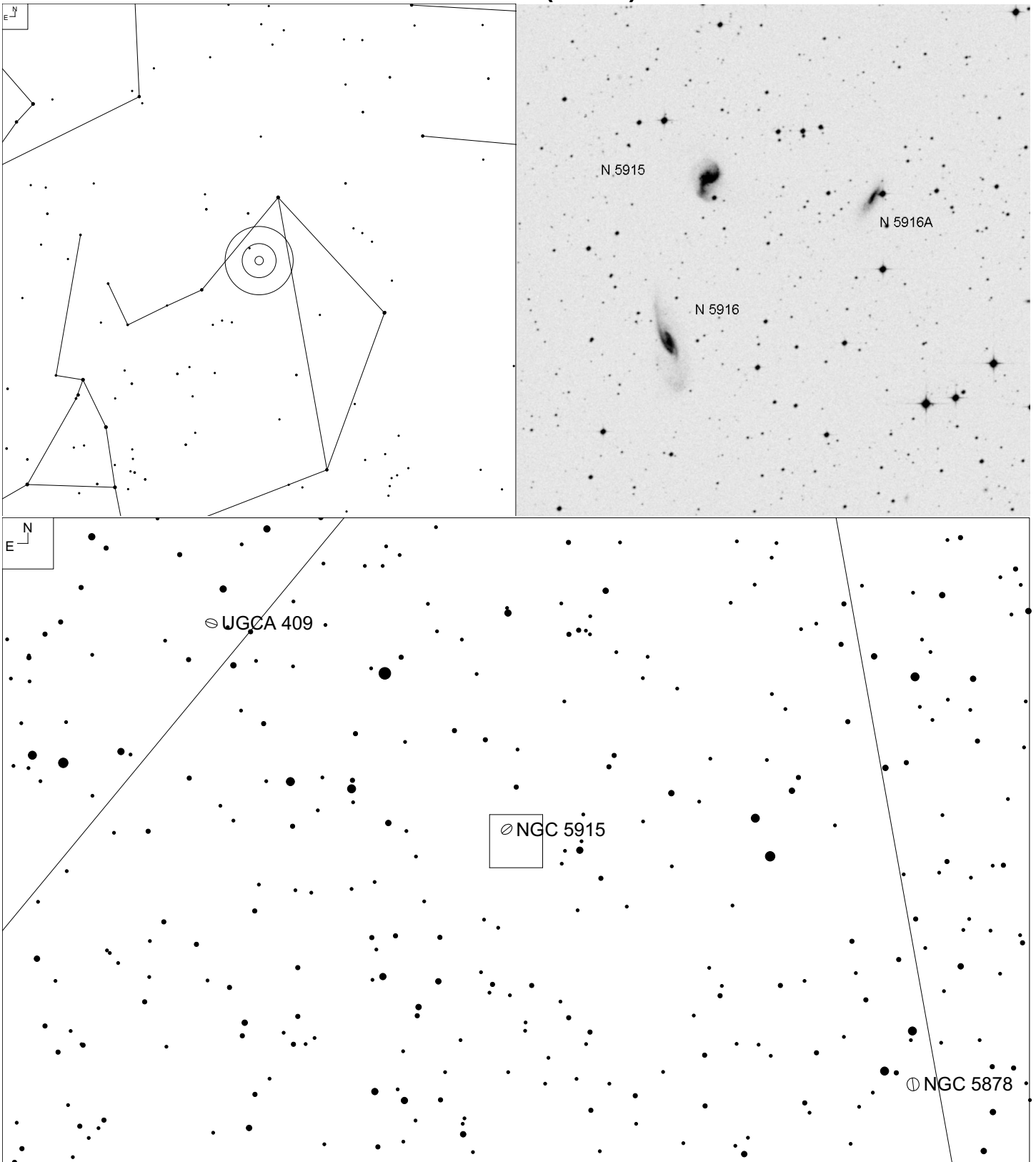
NGC 5903 (Libra)



Object	RA	Dec	Mag	Size
NGC 5903	15 18 36.4	-24 04 07	12.2b	2.7 x 2.0'
NGC 5898			12.5b	1.9 x 1.9'
MCG-4-36-7			14.6b	1.1 x 0.5'

Miles Paul trio

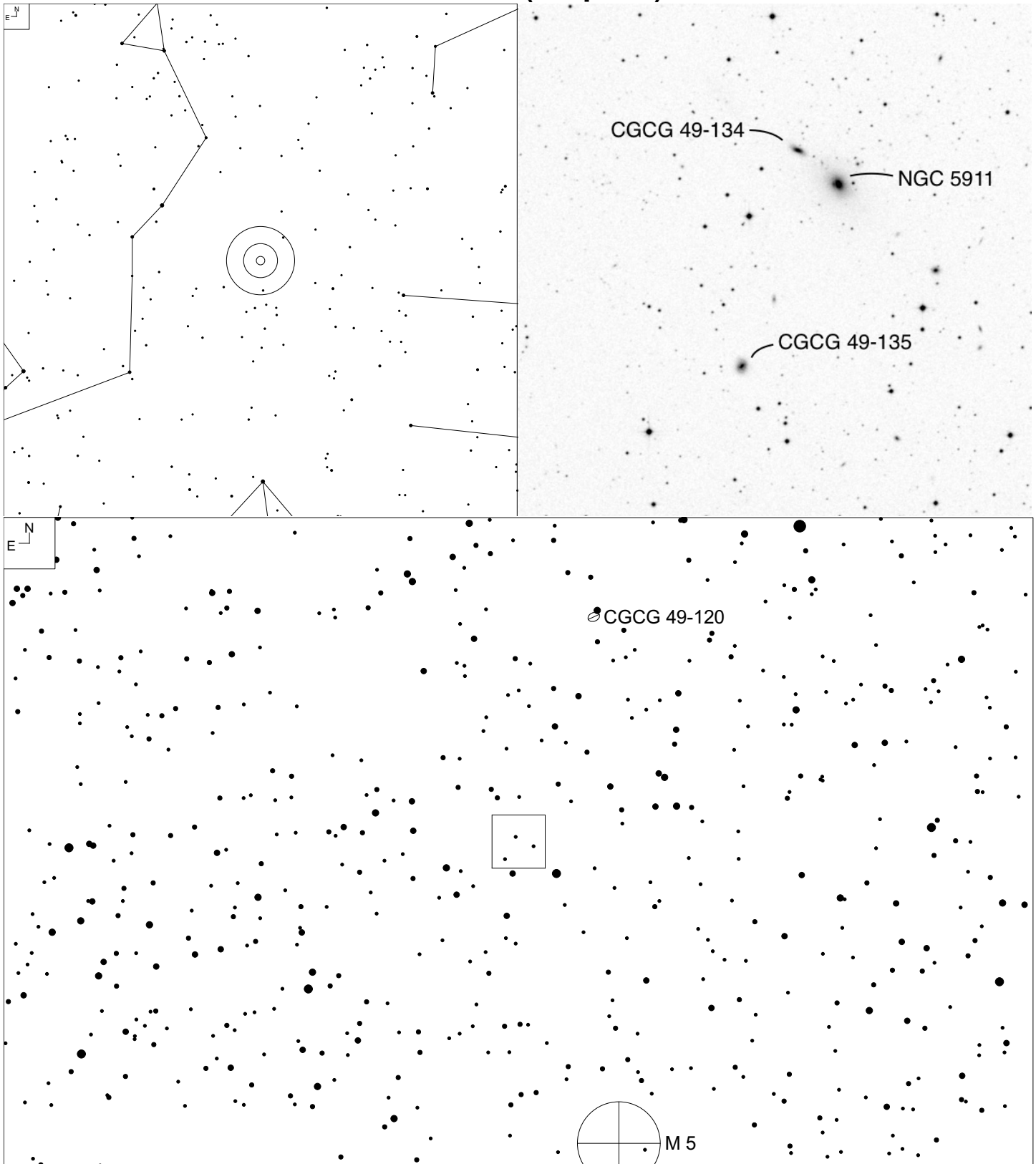
NGC 5915 (Libra)



Object	RA	Dec	Mag	Size
NGC 5915	15 21 33.4	-13 05 35	12.8b	1.7 x 1.2'
NGC 5916			14.2	2.8 x 0.9'
NGC 5916A			15.1	1.4 x 0.4'

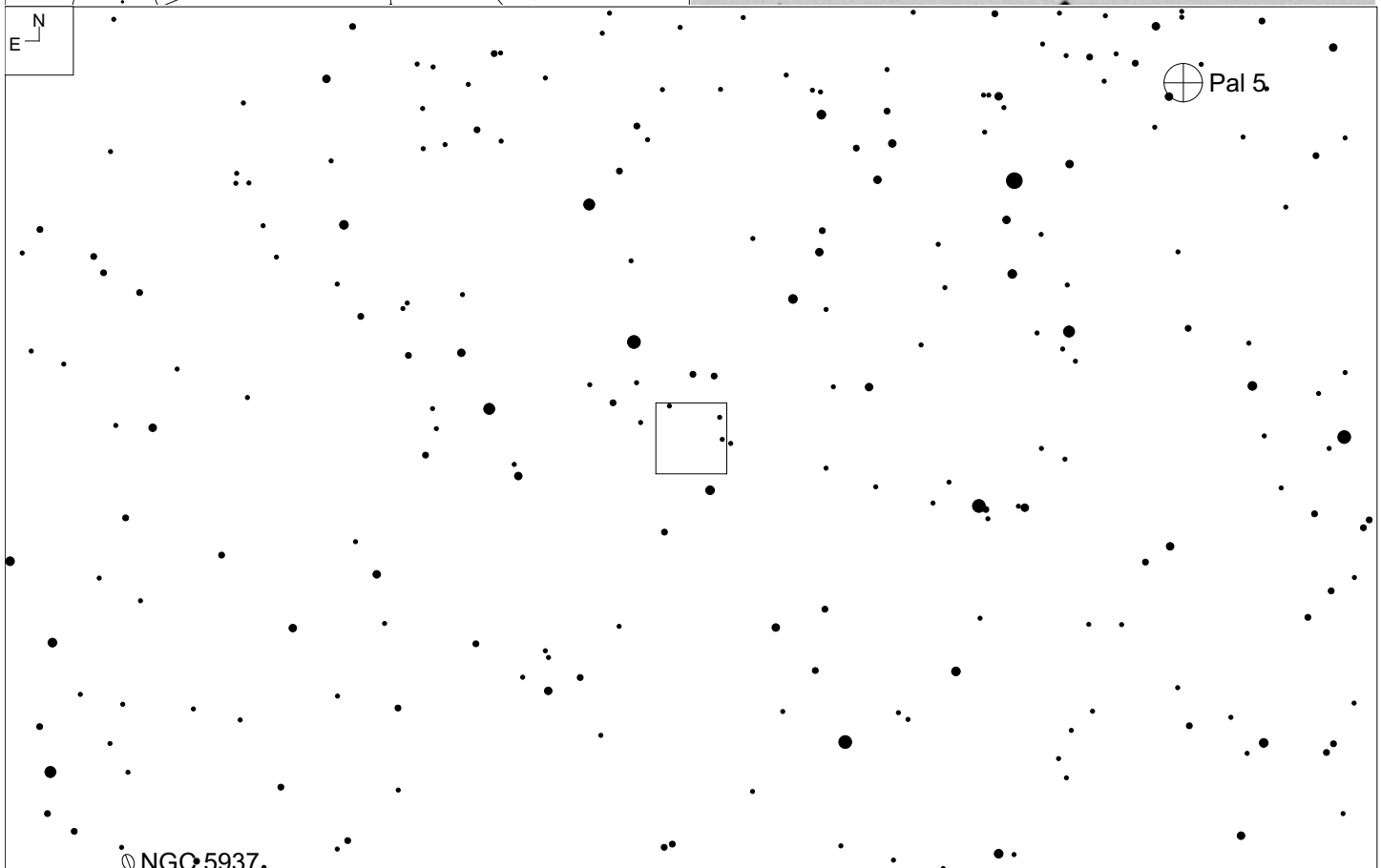
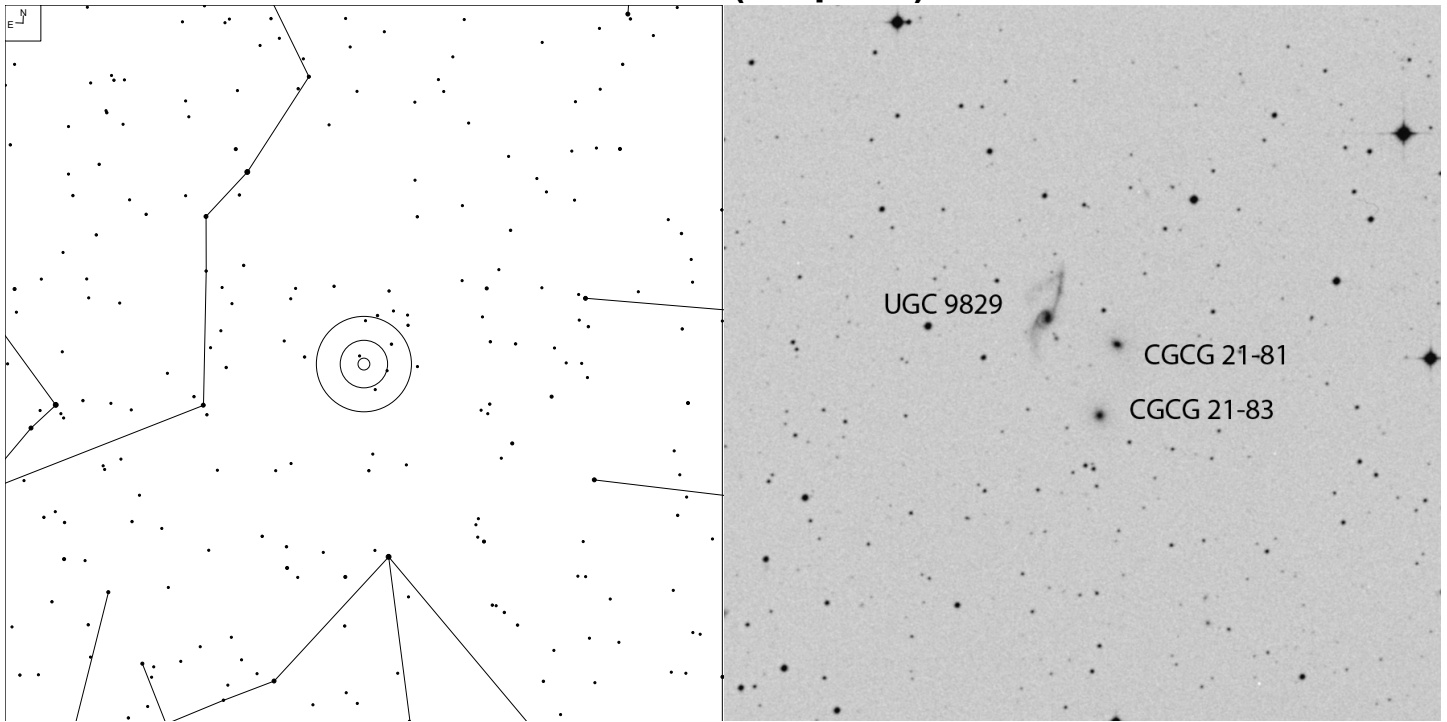
Miles Paul and Astronomical League trio

NGC 5911 (Serpens)



Object (KTG 60)	RA	Dec	Mag	Size
NGC 5911	15 20 18.2	+03 31 03	14.7	1.0 x 0.7'
CGCG 49-134			15.7	0.5 x 0.2'
CGCG 49-135			15.4	0.5 x 0.4'

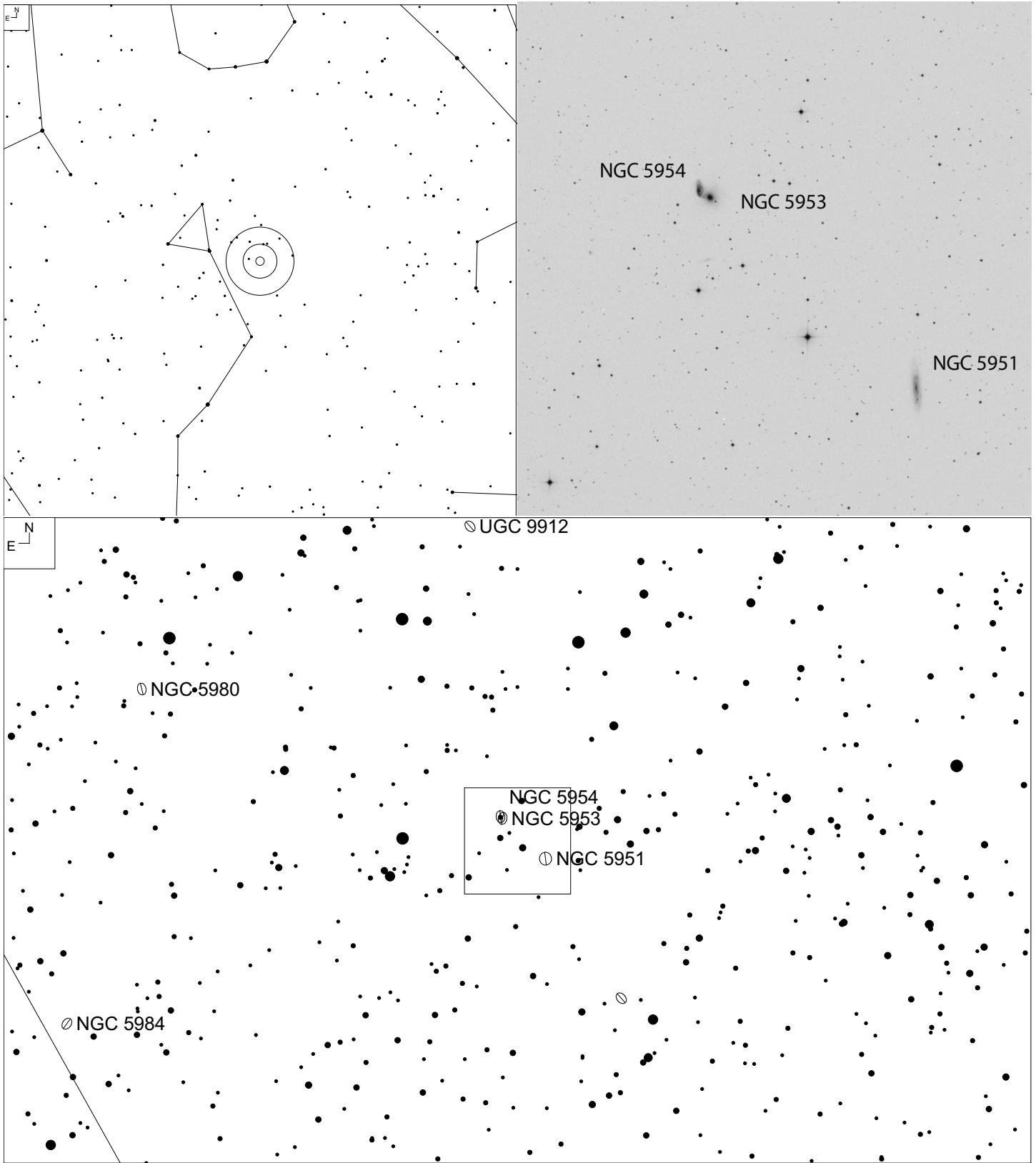
UGC 9829 (Serpens)



NGC 5937.

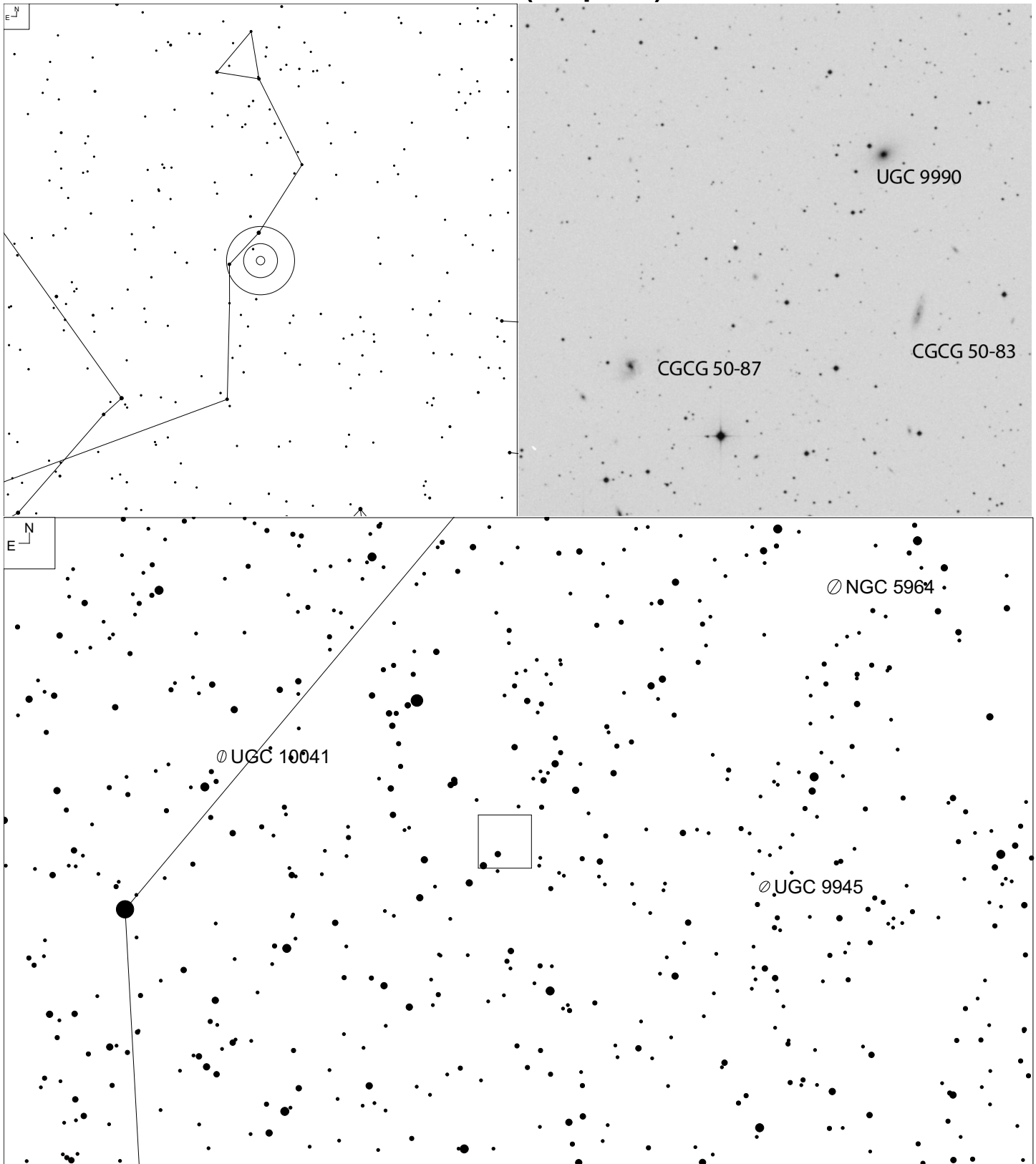
Object (KTG 61)	RA	Dec	Mag	Size
UGC 9829	15 23 01.7	-01 20 47	14.2p	2.1 x 0.8'
CGCG 21-81			16.1	0.4 x 0.3'
CGCG 21-83			15.7	0.4 x 0.4'

NGC 5951 (Serpens)



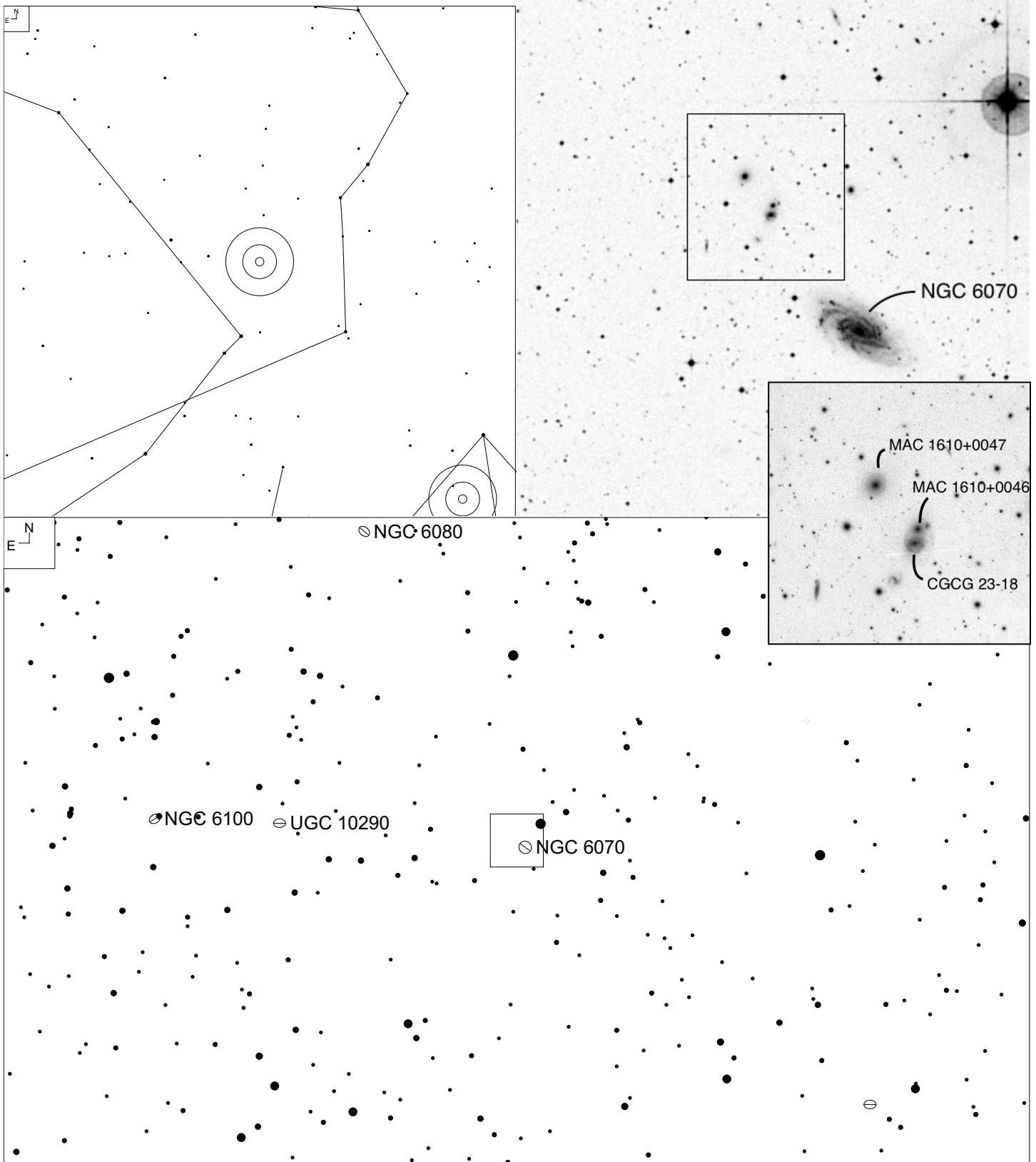
Object (KTG 62)	RA	Dec	Mag	Size
NGC 5951	15 33 43.0	+15 00 25	13.4p	3.5 x 0.8'
NGC 5953			12.9	1.6 x 1.3'
NGC 5954			12.9	1.2 x 0.5'

UGC 9990 (Serpens)



Object (KTG 65)	RA	Dec	Mag	Size
UGC 9990	15 43 29.9	+04 47 39	15.0p	1.2 x 0.3'
CGCG 50-83			15.0	0.8 x 0.6'
CGCG 50-87			15.2	0.8 x 0.7'

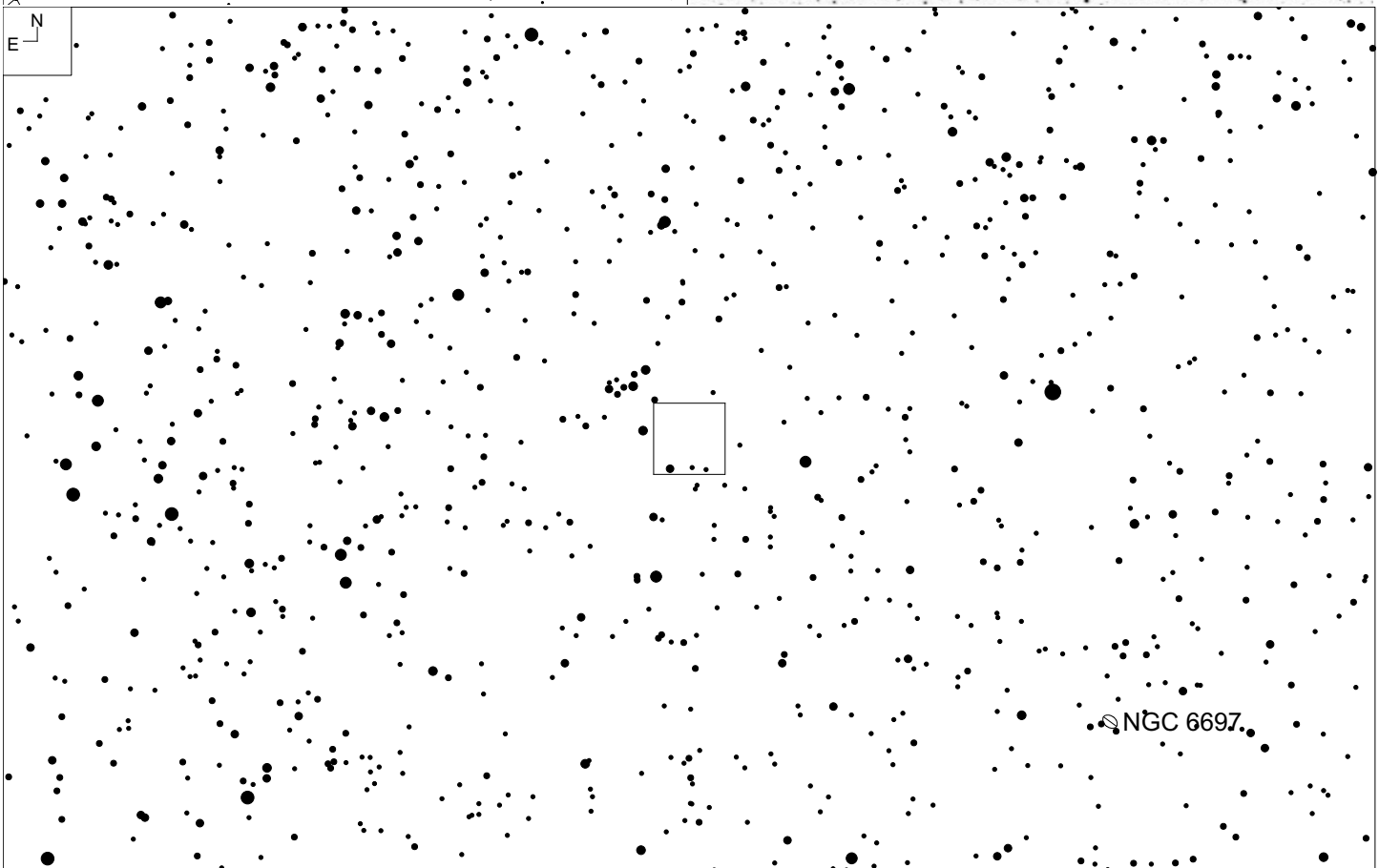
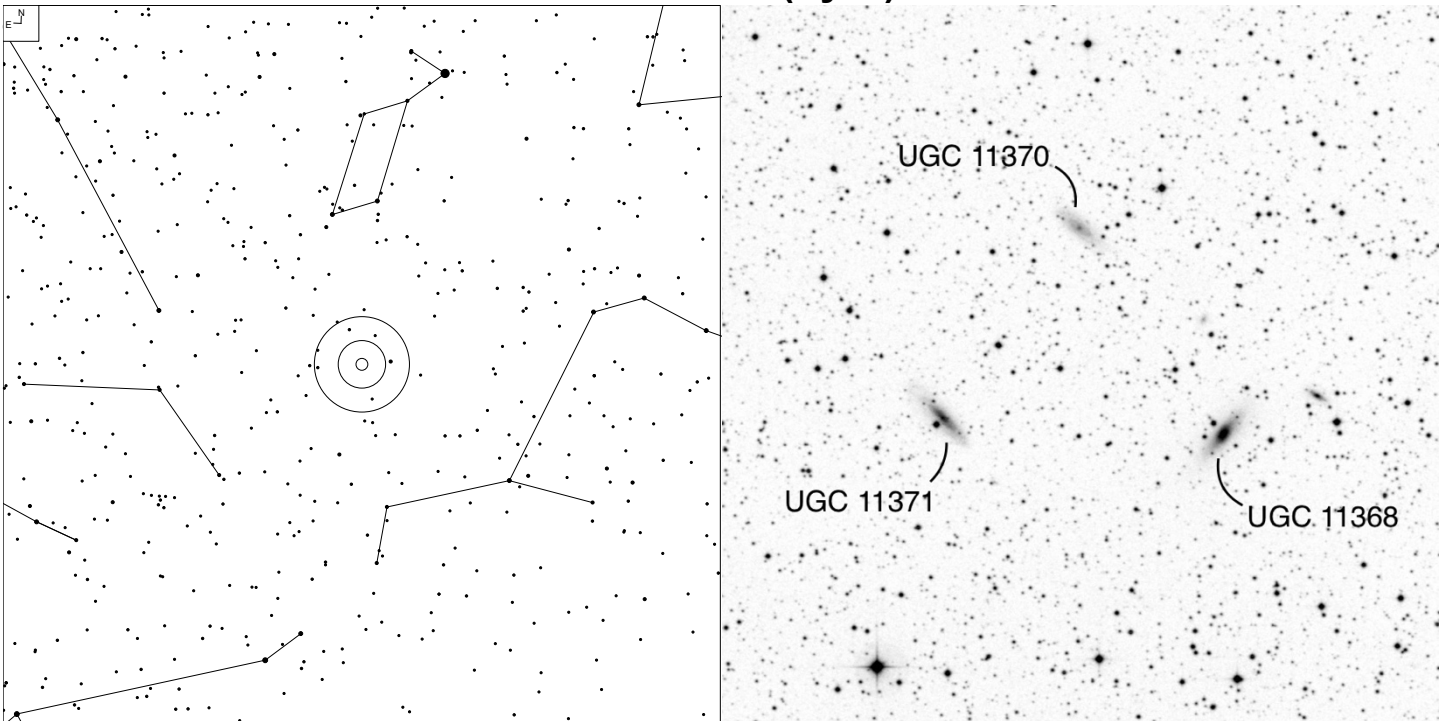
NGC 6070 (Serpens)



Object	RA	Dec	Mag	Size
NGC 6070	16 09 58.6	+00 42 31	12.5b	3.5 x 1.8'
CGCG 23-18			15.6	0.9 x 0.4'
MAC 1610+0047			16.0	0.5'

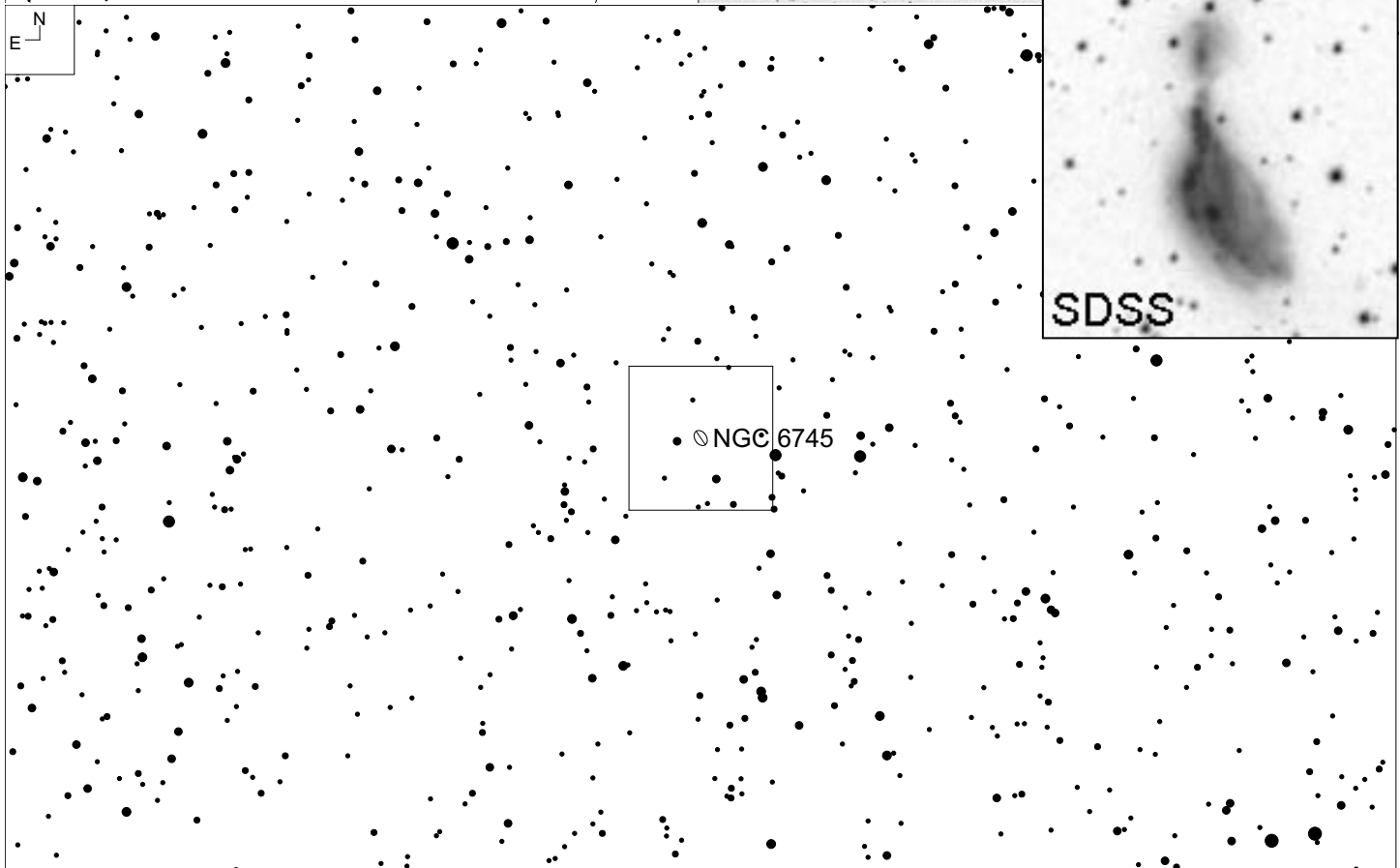
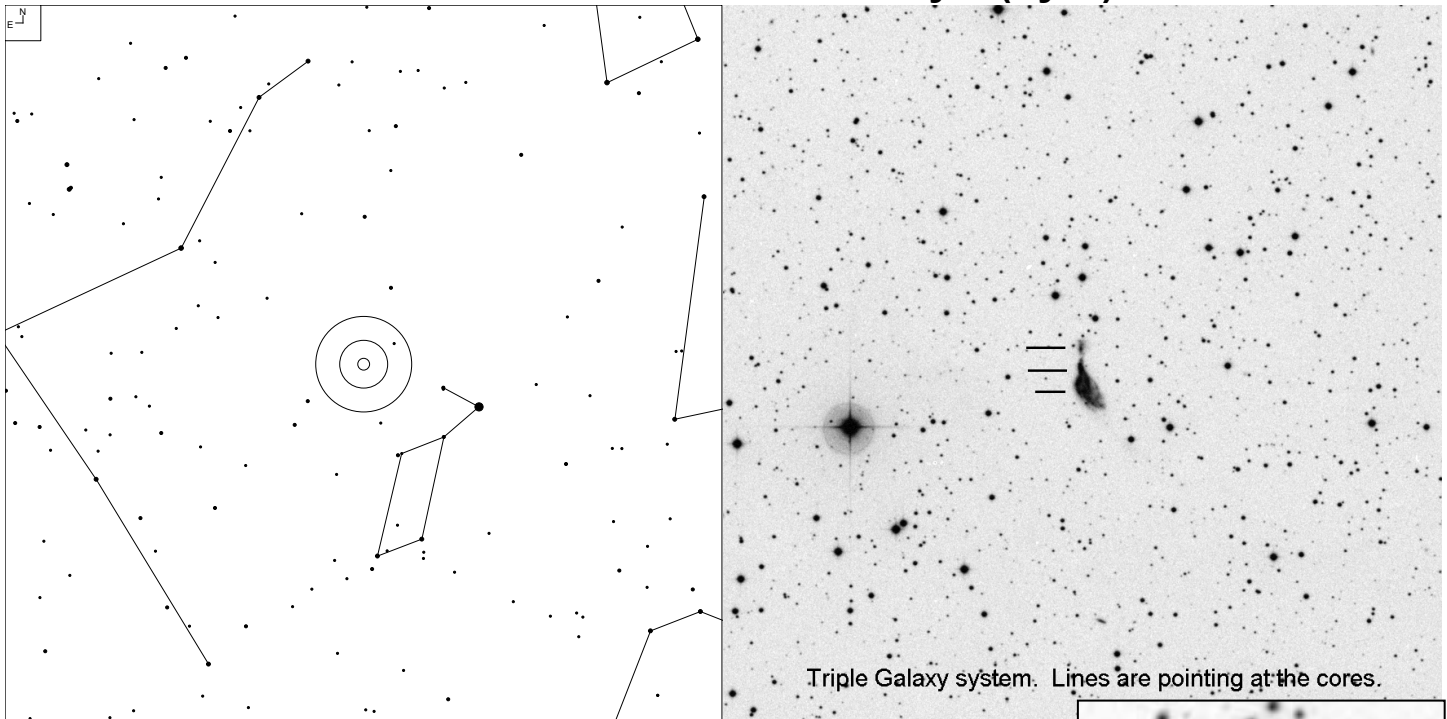
Miles Paul trio

UGC 11368 (Lyra)



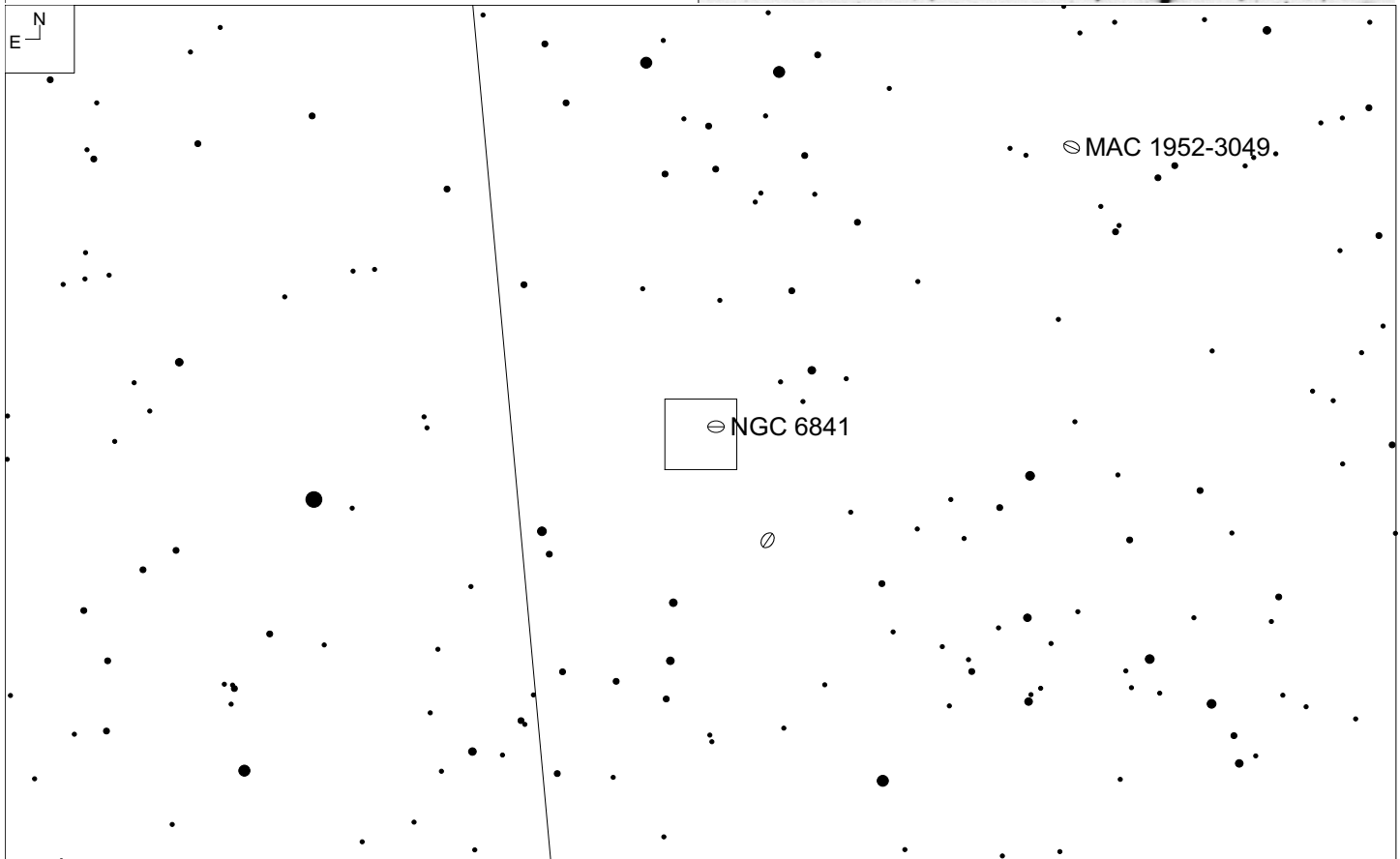
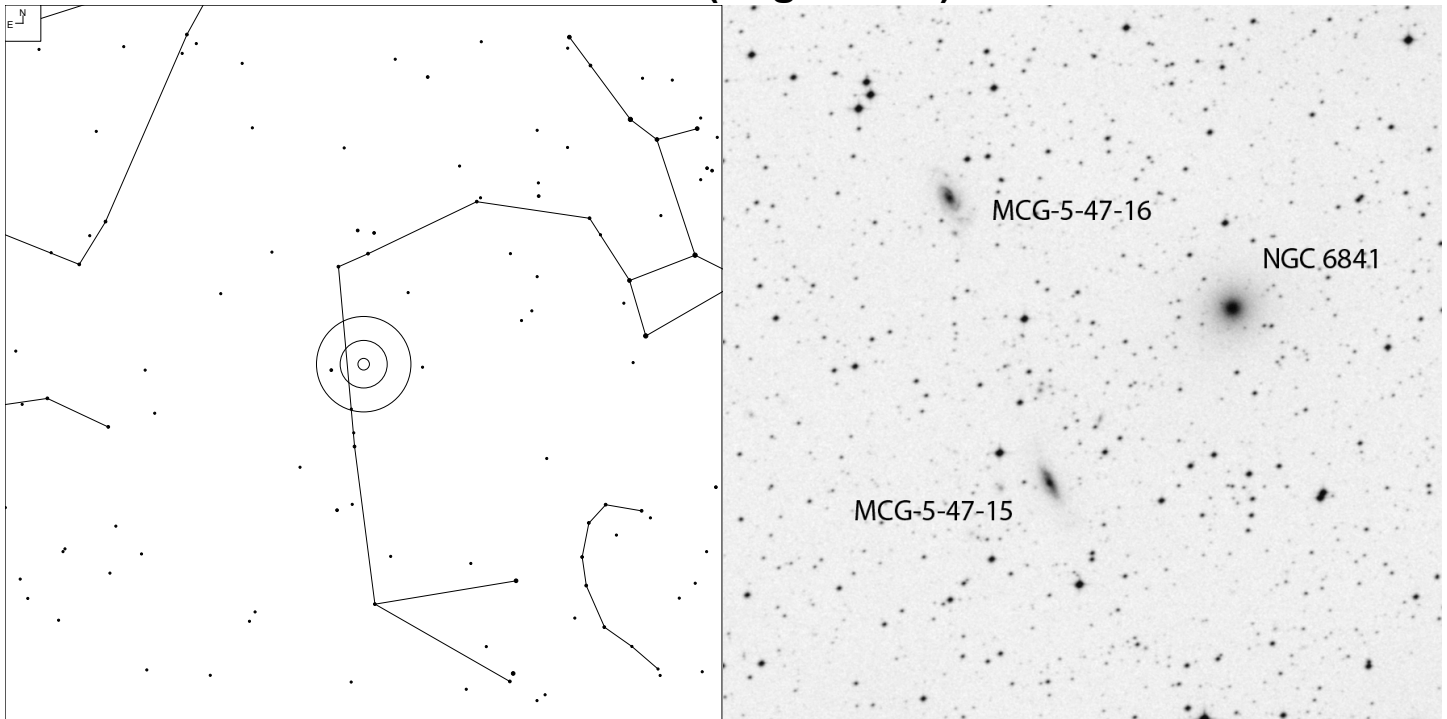
Object (KTG 68)	RA	Dec	Mag	Size
UGC 11368	18 51 29.9	+26 29 01	14.3p	1.3 x 0.4'
UGC 11370			14.6p	1.2 x 0.4'
UGC 11371			14.3p	1.6 x 0.5'

NGC 6745 “Bird’s Head Galaxy” (Lyra)



Object (KTG 69)	RA	Dec	Mag	Size
NGC 6745 (Head)	19 01 41.7	+40 45 11	13.3	1.4 x 0.6'
Tip of Head			16.2	0.2 x 0.2'
Beak			15.9	0.3 x 0.2'

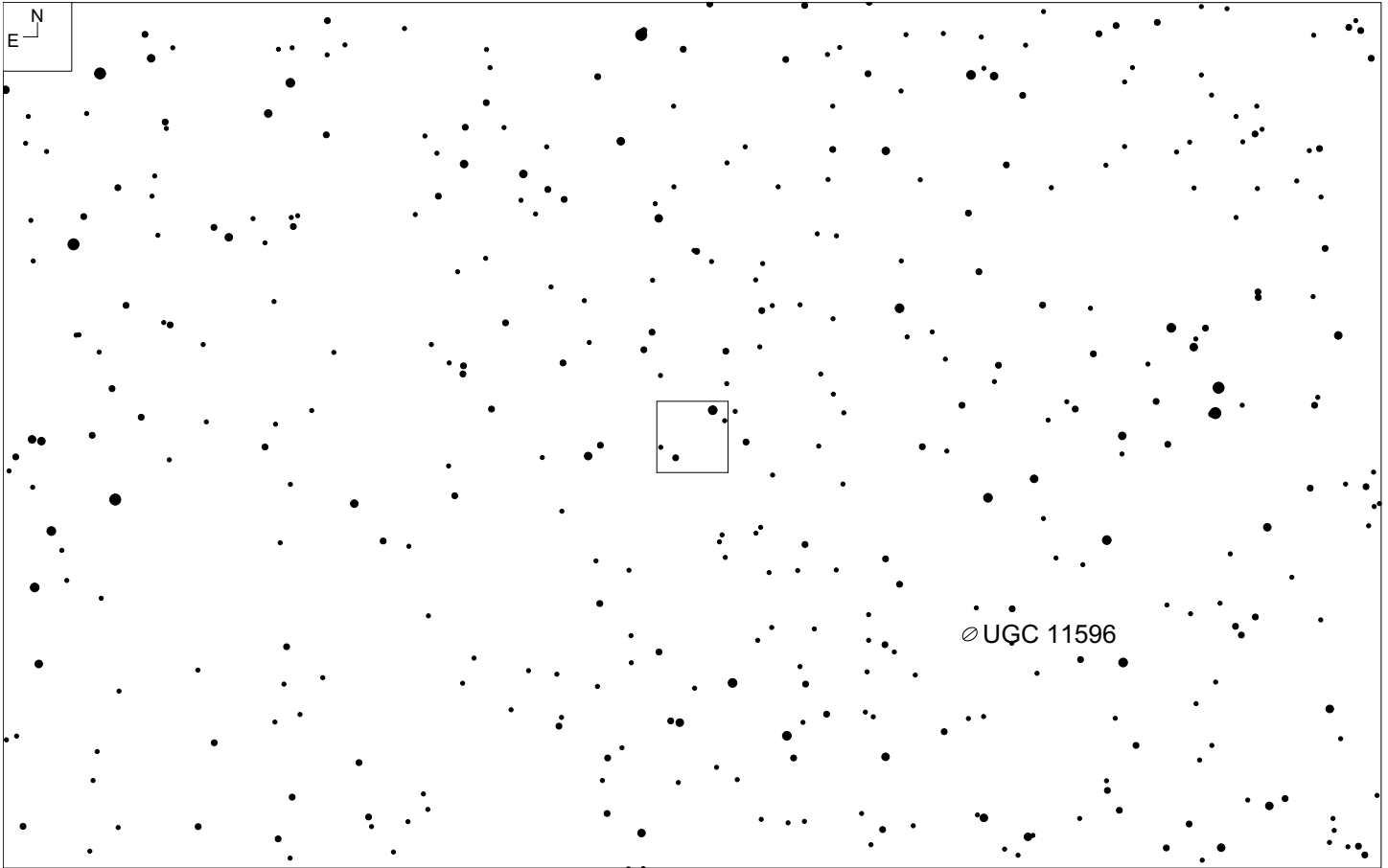
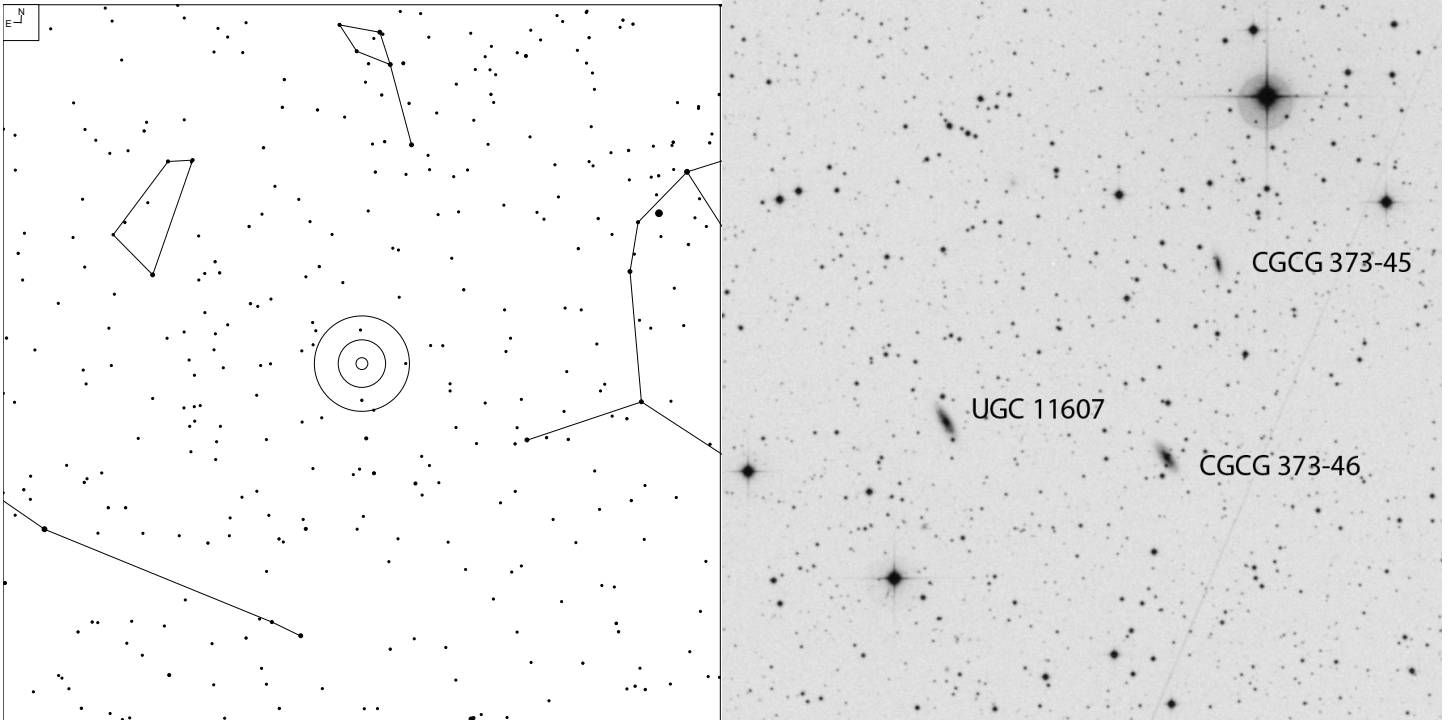
NGC 6841 (Sagittarius)



Object	RA	Dec	Mag	Size
NGC 6841	19 57 49.0	-31 48 37	13.8b	1.3 x 1.3'
MCG-5-47-15			15.1p	1.1 x 0.3'
MCG-5-47-16			14.5p	1.4 x 0.9'

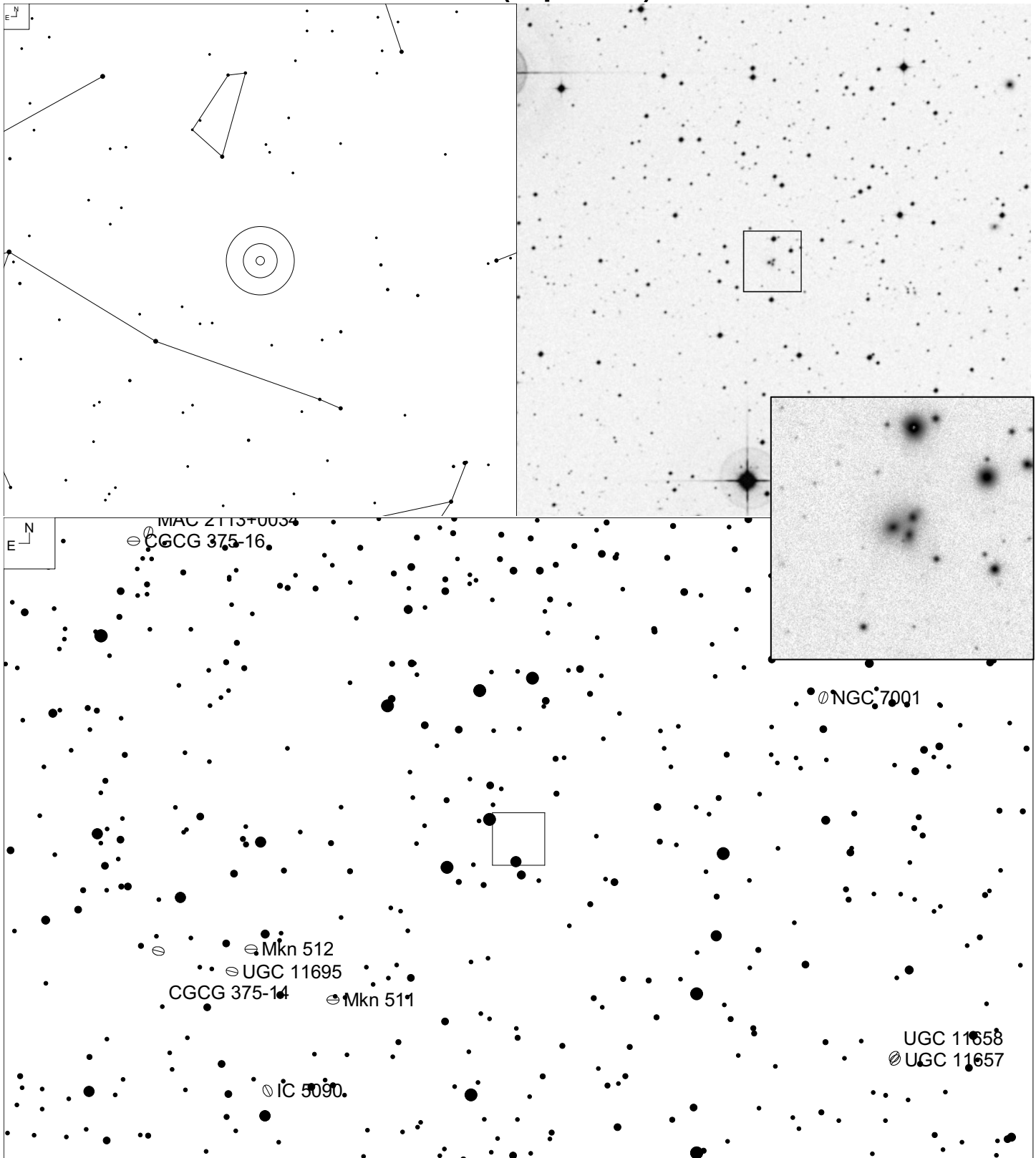
Miles Paul trio

UGC 11607 (Aquila)



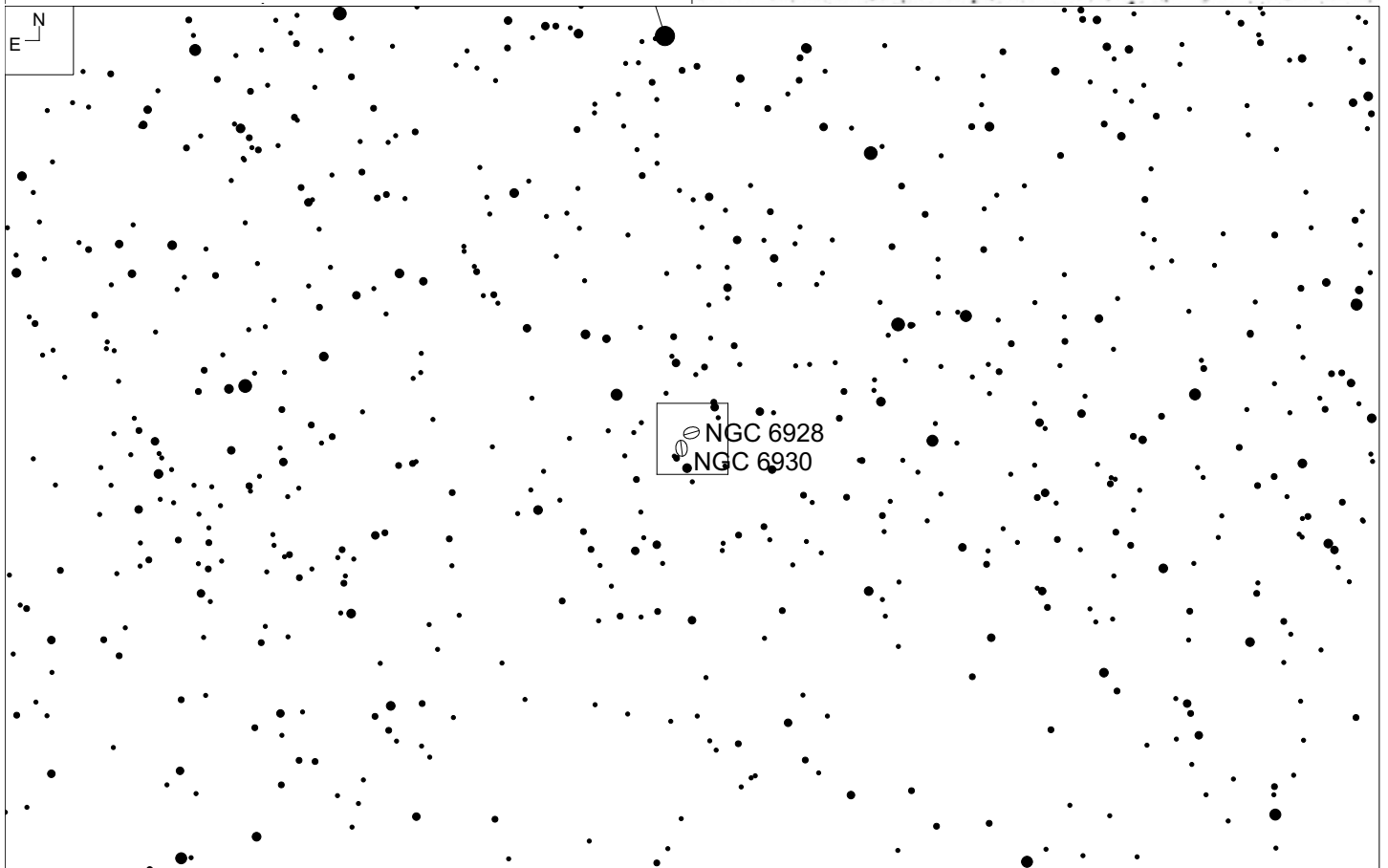
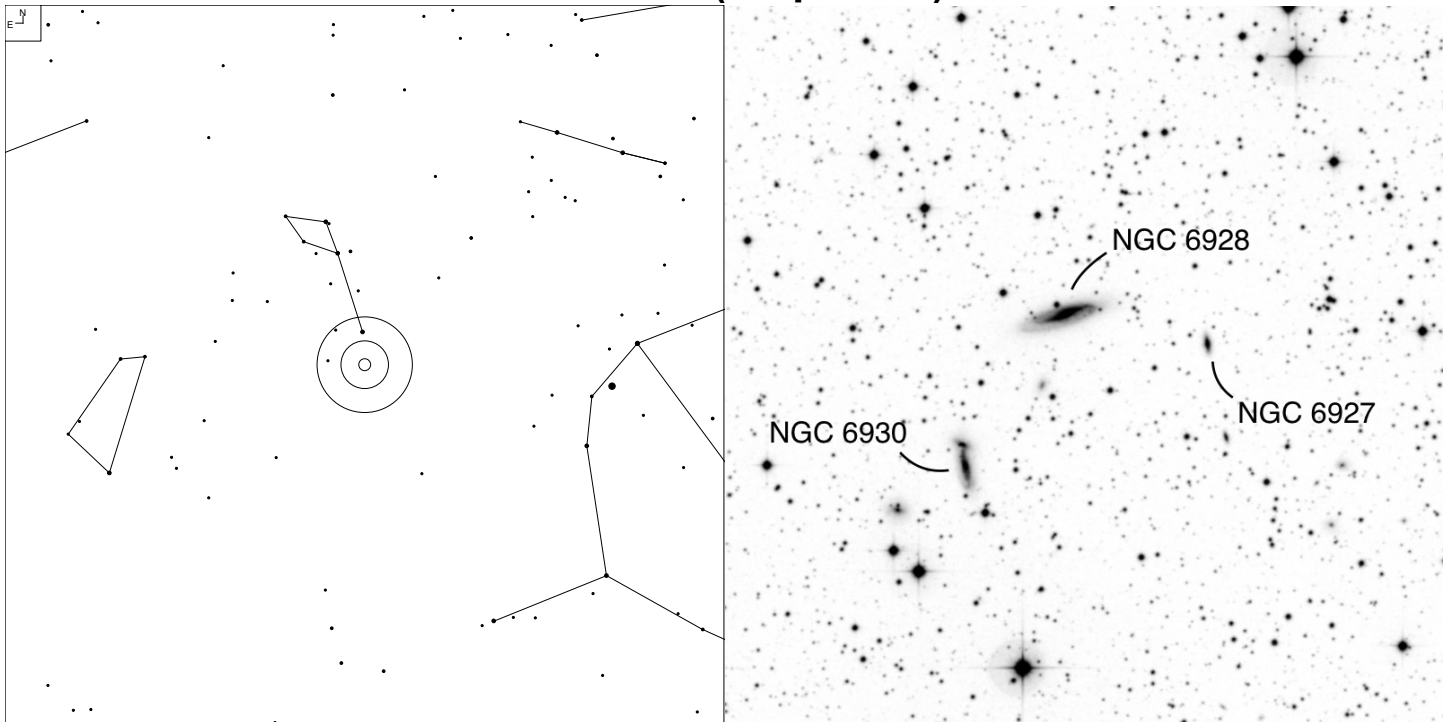
Object (KTG 70)	RA	Dec	Mag	Size
UGC 11607	20 39 44.7	+02 01 51	14.9p	0.8 x 0.2'
CGCG 373-45			15.2	0.5 x 0.1'
CGCG 373-46			15.2	0.8 x 0.3'

II Zw 99 (Aquarius)



Object	RA	Dec	Mag	Size
II Zw 99 PGC 66119/20/21	21 06 49.2	-00 51 24	17.6g	0.3'

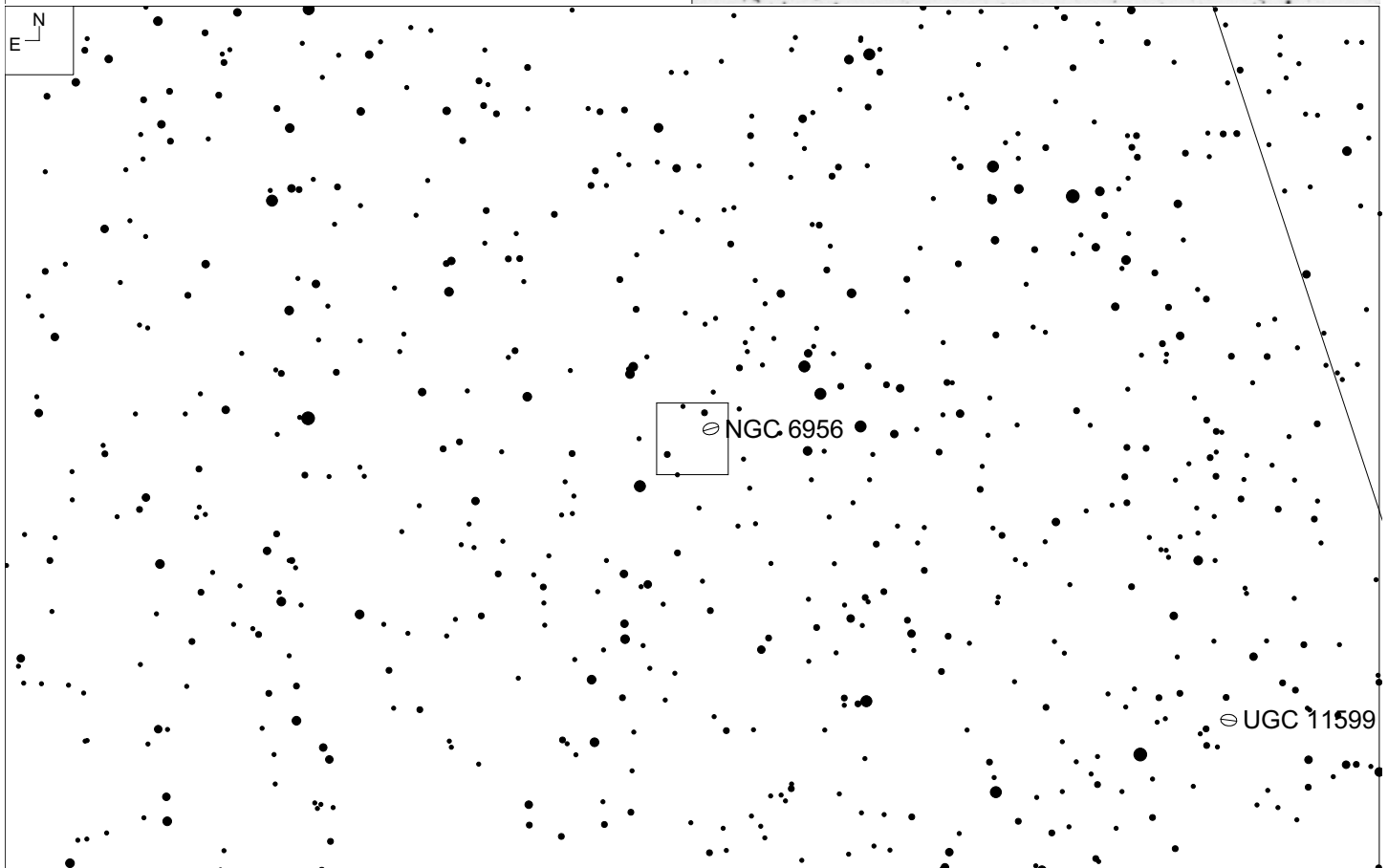
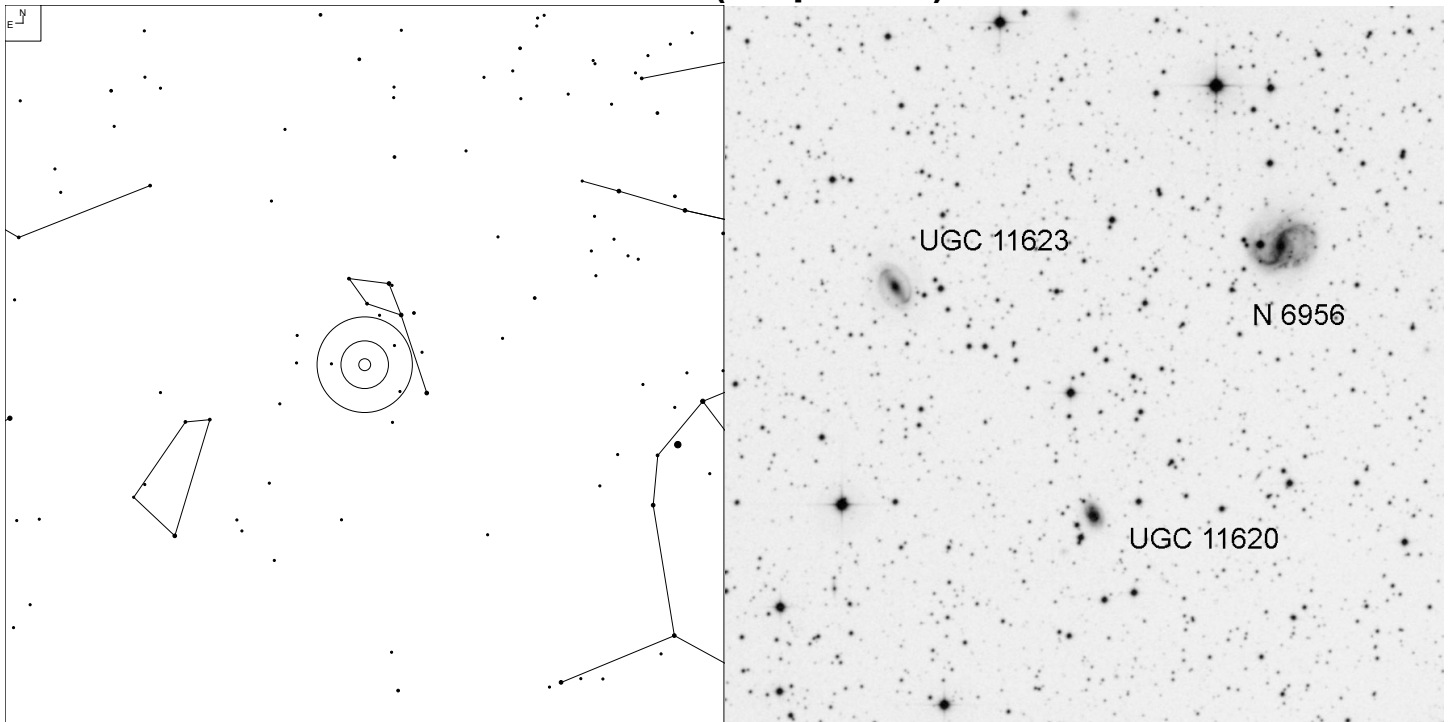
NGC 6928 (Delphinus)



Object	RA	Dec	Mag	Size
NGC 6928	20 32 50.3	+09 55 36	13.2b	2.2 x 0.6'
NGC 6927			15.5b	0.6 x 0.3'
NGC 6930			13.6b	1.0 x 0.4'

Miles Paul and Astronomical League trio

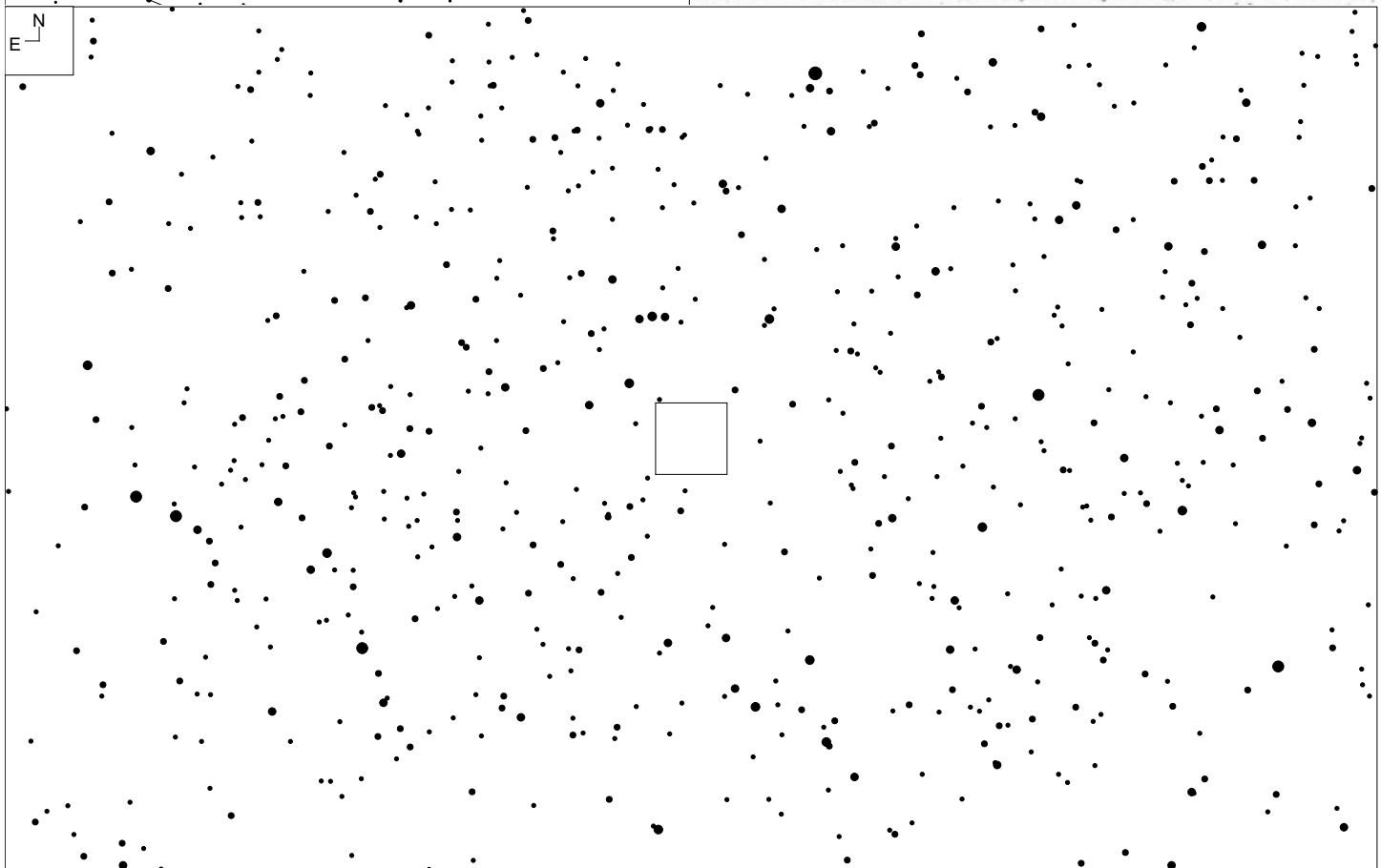
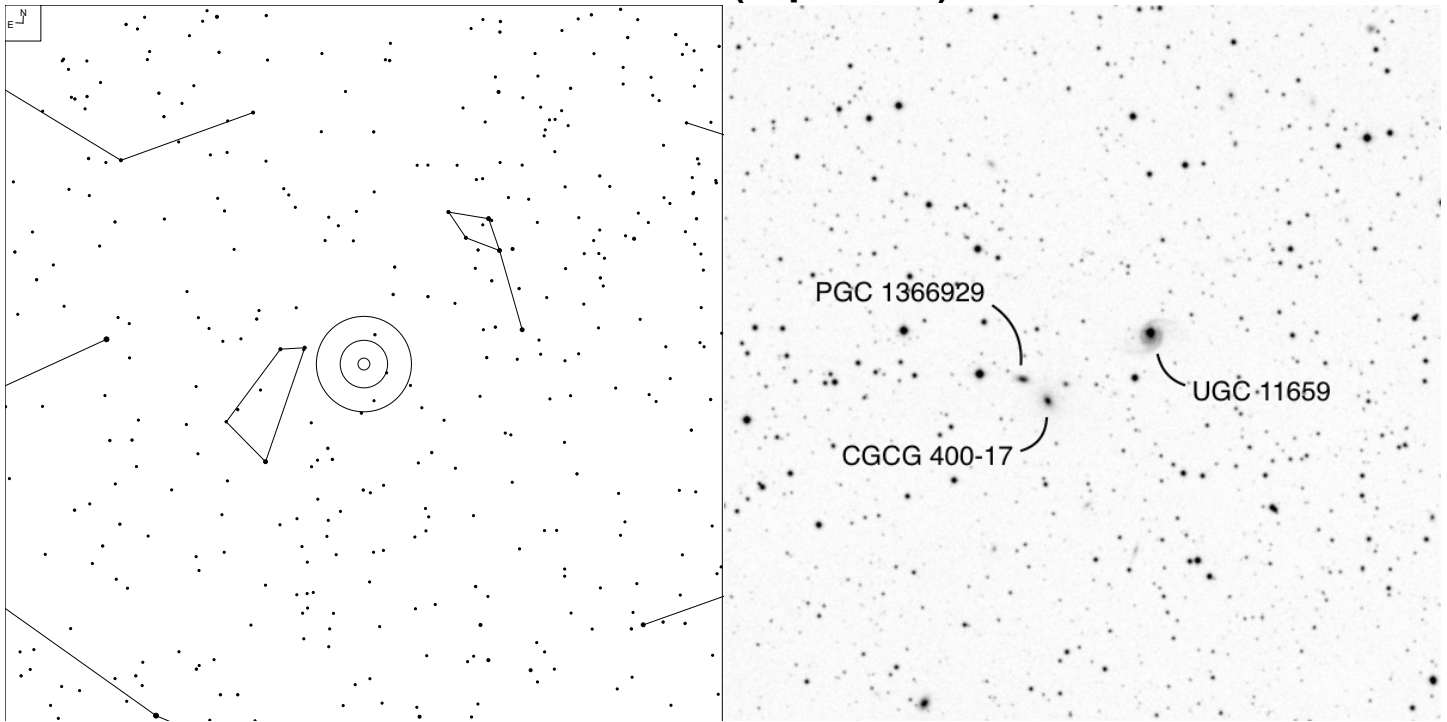
NGC 6956 (Delphinus)



Object (KTG 71)	RA	Dec	Mag	Size
NGC 6956	20 43 53.7	+12 30 42	13.1p	1.9 x 1.3'
UGC 11620			14.6p	0.6 x 0.3'
UGC 11623			14.9p	1.0 x 0.6'

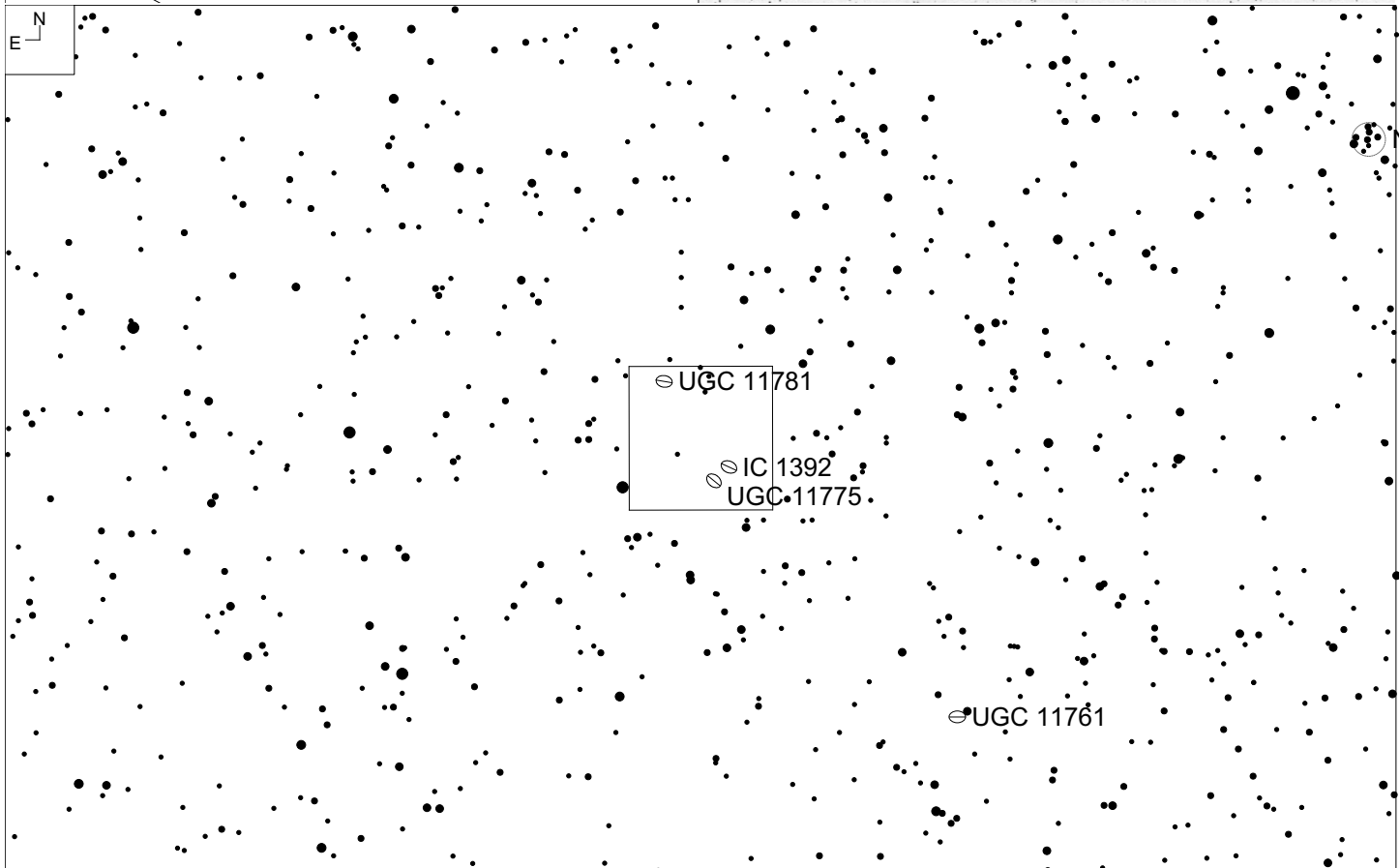
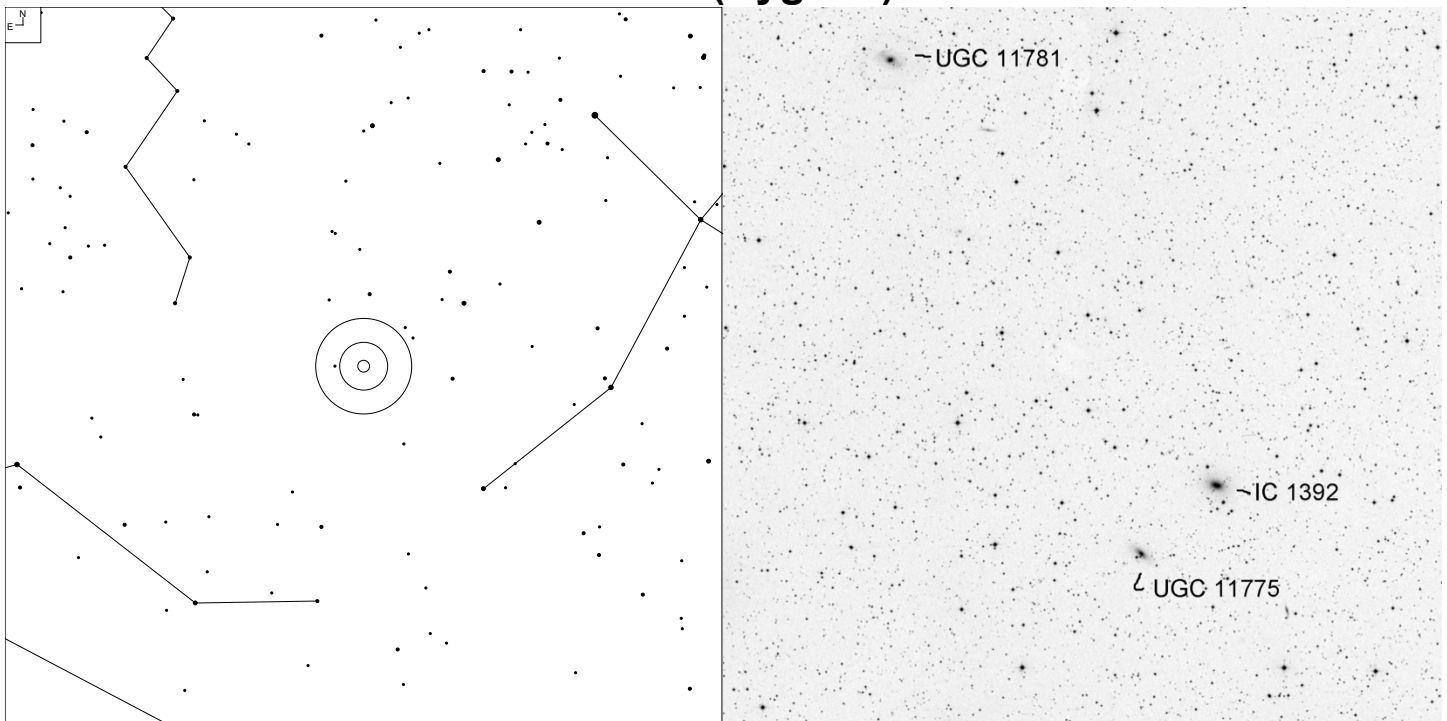
Miles Paul trio

UGC 11659 (Equuleus)



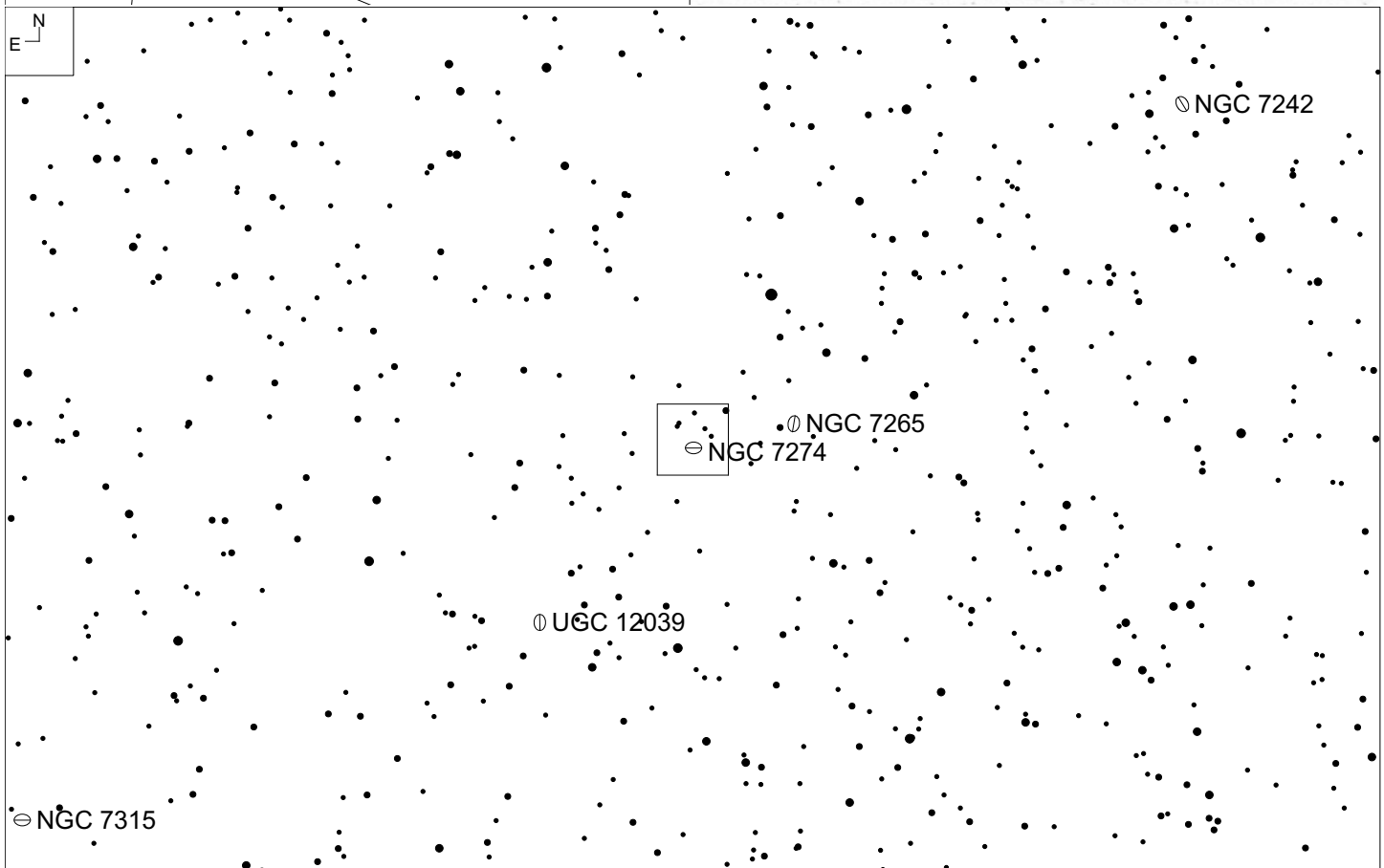
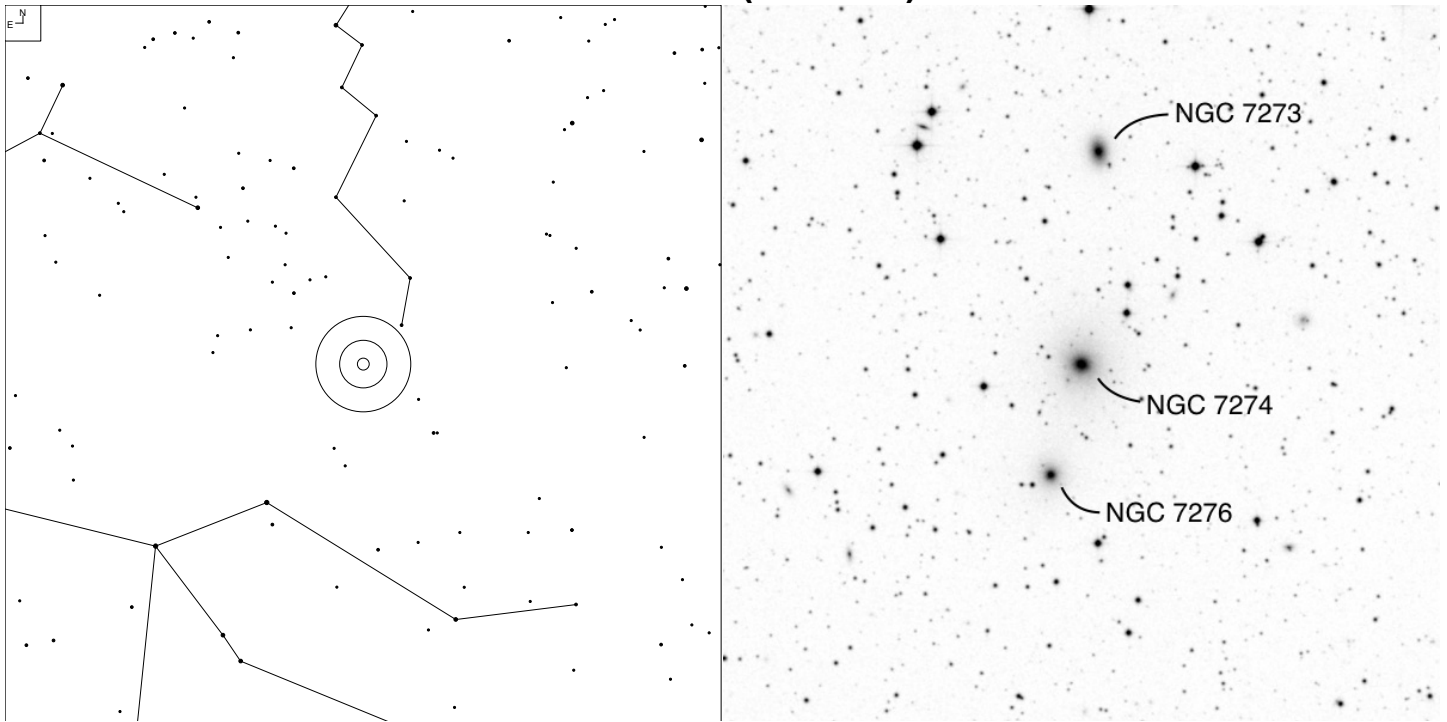
Object (KTG 72)	RA	Dec	Mag	Size
UGC 11659	21 00 04.8	+09 34 58	14.8p	0.8 x 0.6'
CGCG 400-17			16.6b	0.5 x 0.3'
PGC 1366929			16.2*	0.3 x 0.2'

IC 1392 (Cygnus)



Object (KTG 73)	RA	Dec	Mag	Size
IC 1392	21 36 00.0	+35 28 53	12.5	1.5 x 1.2'
UGC 11775			14.1	1.0 x 0.4'
UGC 11781			13.1	1.4 x 1.0'

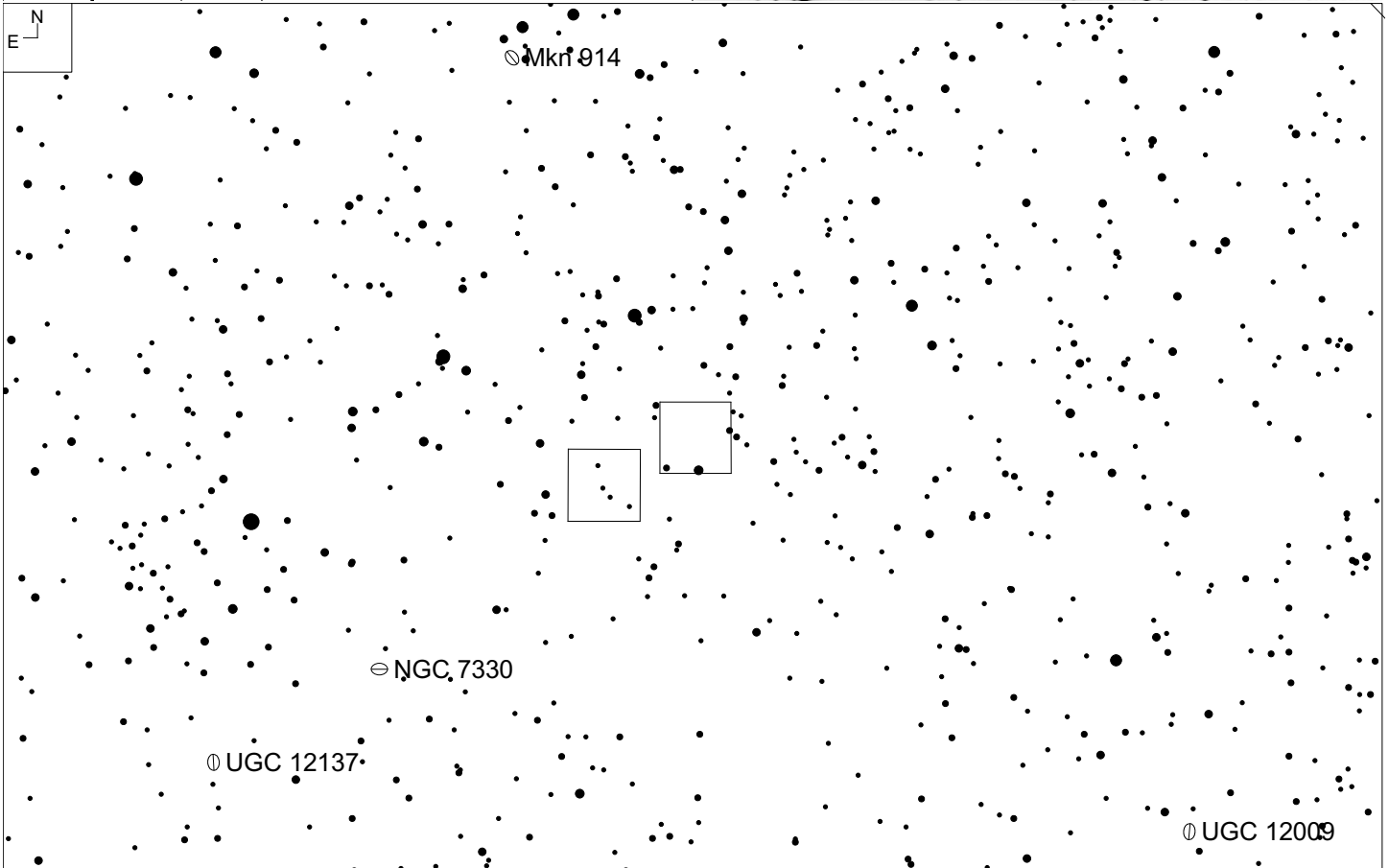
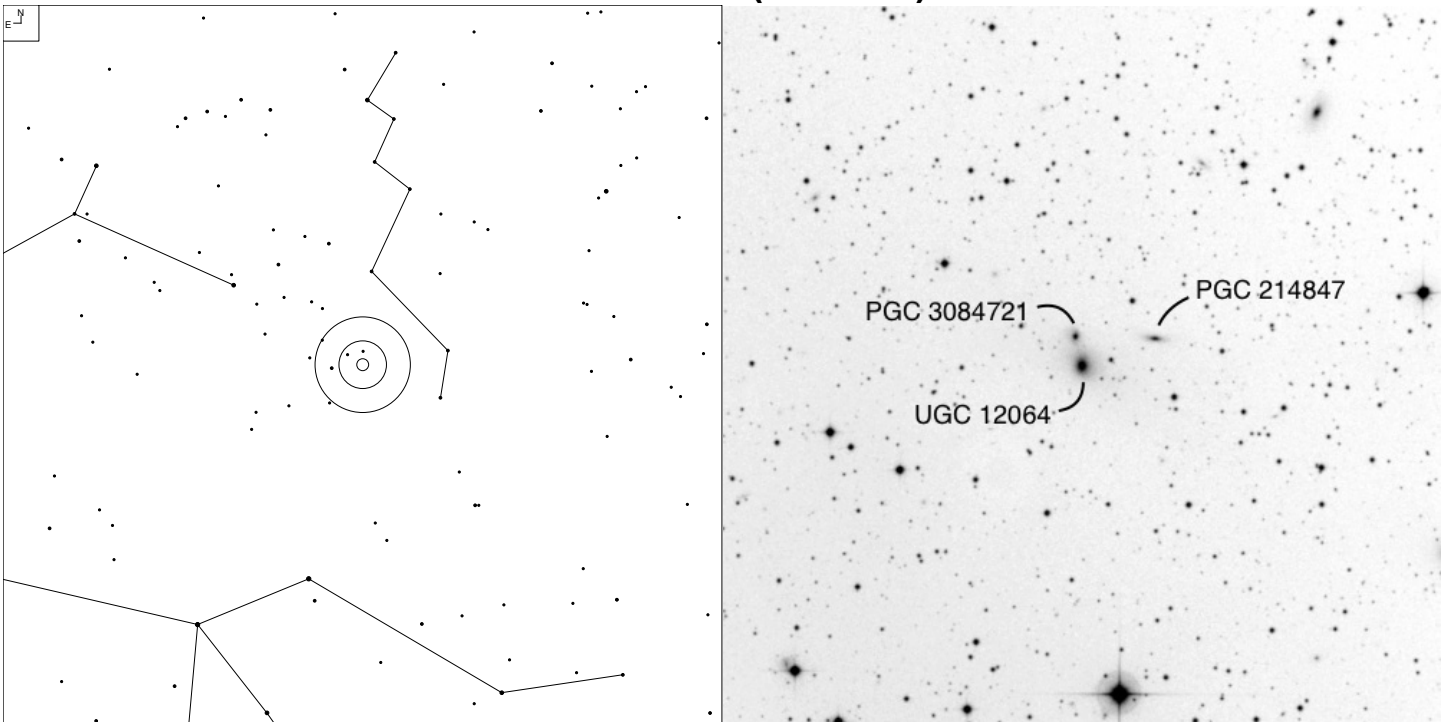
NGC 7274 (Lacerta)



Object	RA	Dec	Mag	Size
NGC 7274	22 24 11.1	+36 07 35	13.8p	1.2 x 1.2'
NGC 7273			14.7	0.9 x 0.5'
NGC 7276			14.7	0.9 x 0.9'

Miles Paul and Astronomical League trio

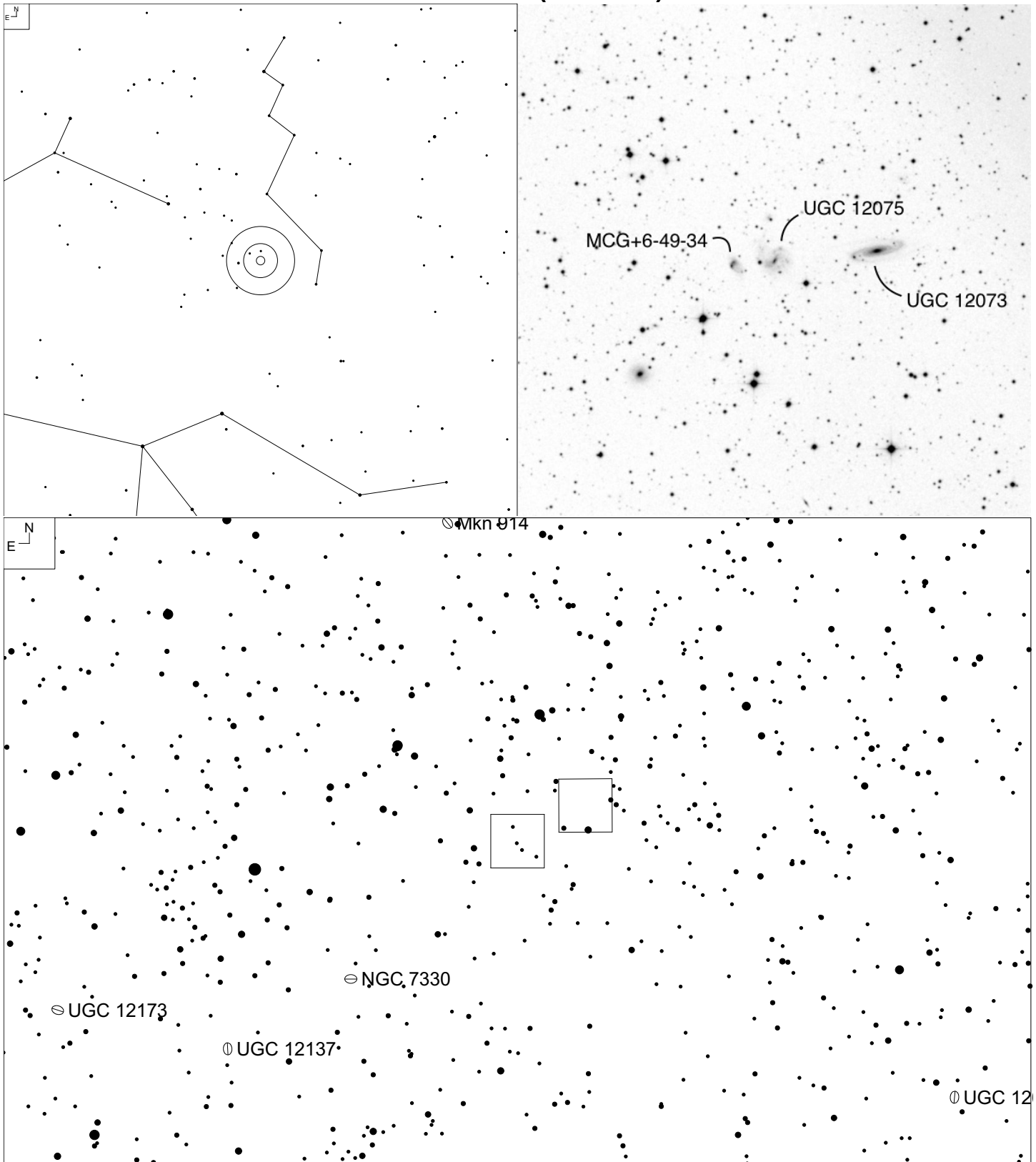
UGC 12064 (Lacerta)



Object	RA	Dec	Mag	Size
UGC 12064	22 31 20.6	+39 21 29	14.5b	0.7 x 0.6'
PGC 3084721				
PGC 214847				

Miles Paul trio

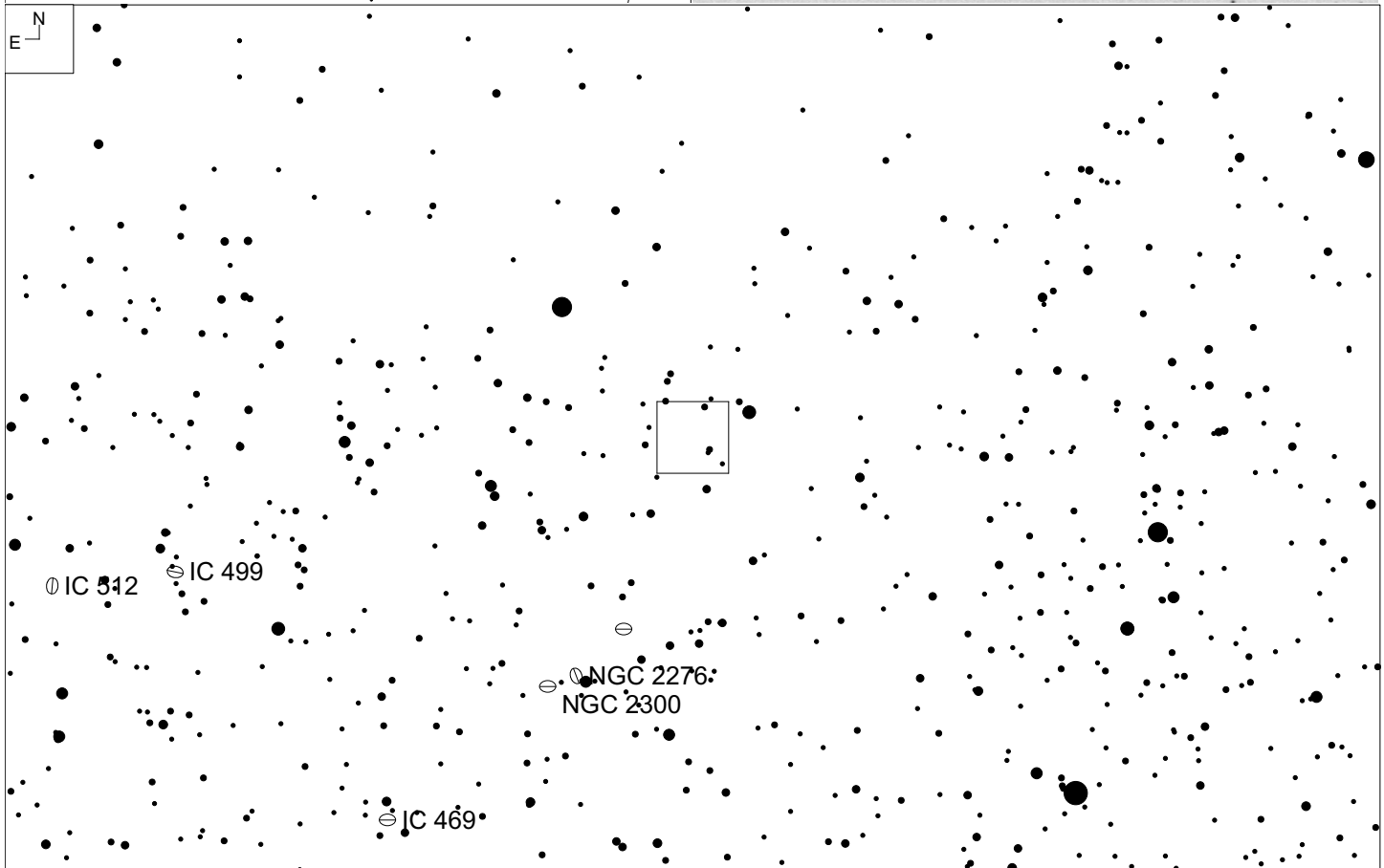
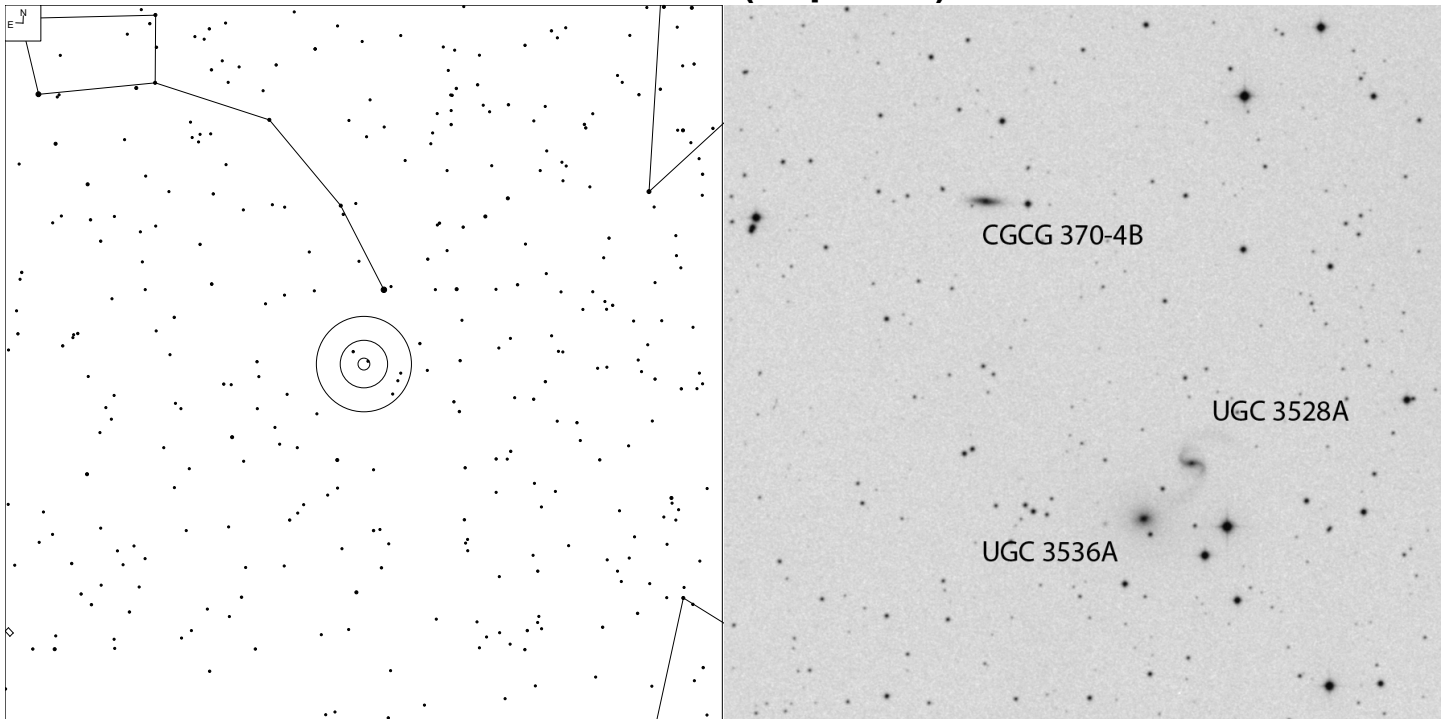
UGC 12073 (Lacerta)



Object	RA	Dec	Mag	Size
UGC 12073	22 32 33.5	+39 12 55	14.5p	2.1 x 0.8'
UGC 12075			14.6p	1.4 x 1.0'
MCG+6-49-34			15.6	0.7 x 0.4'
MCG+6-49-35			15.5	0.6 x 0.6'

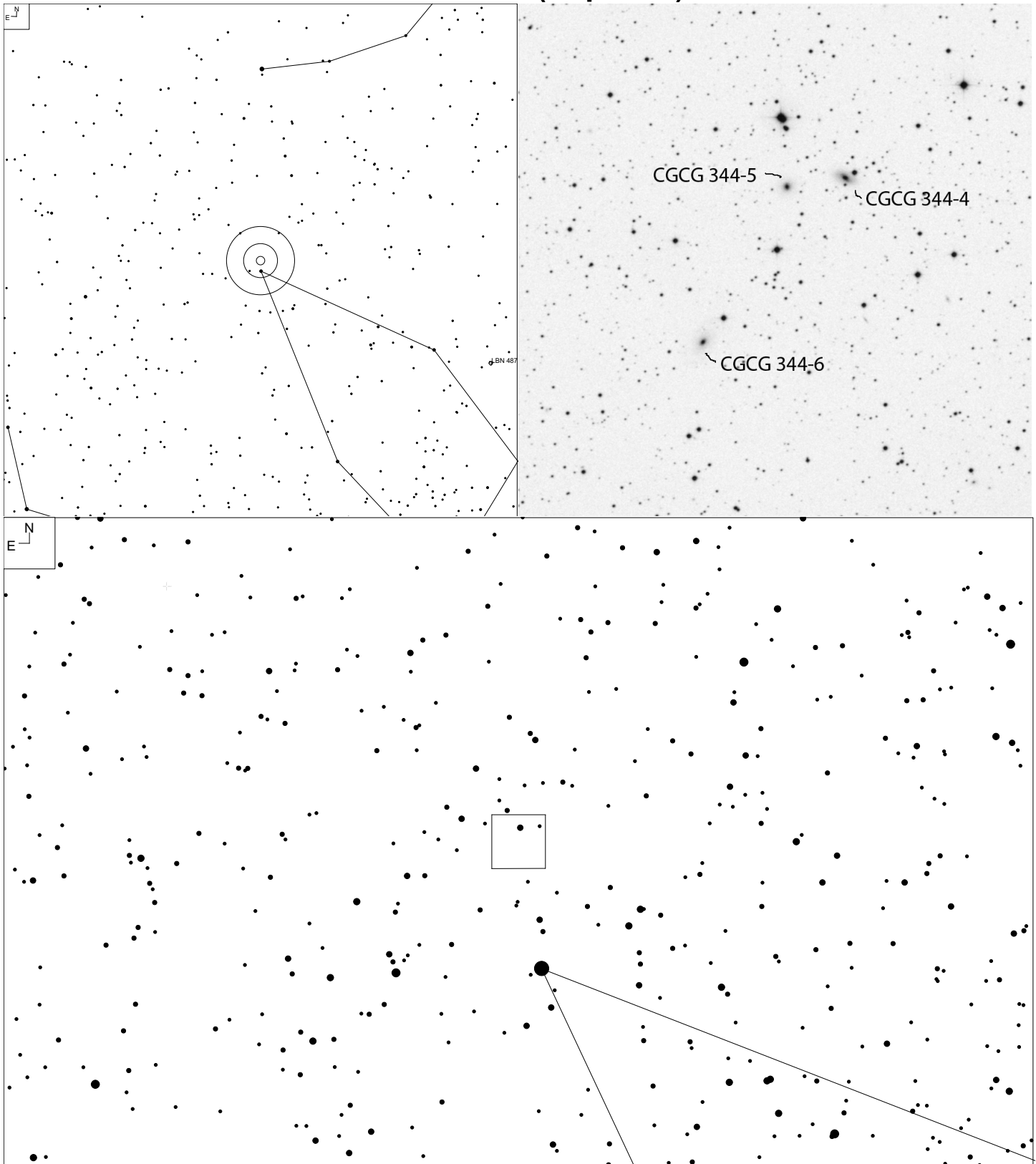
Miles Paul trio

UGC 3536A (Cepheus)



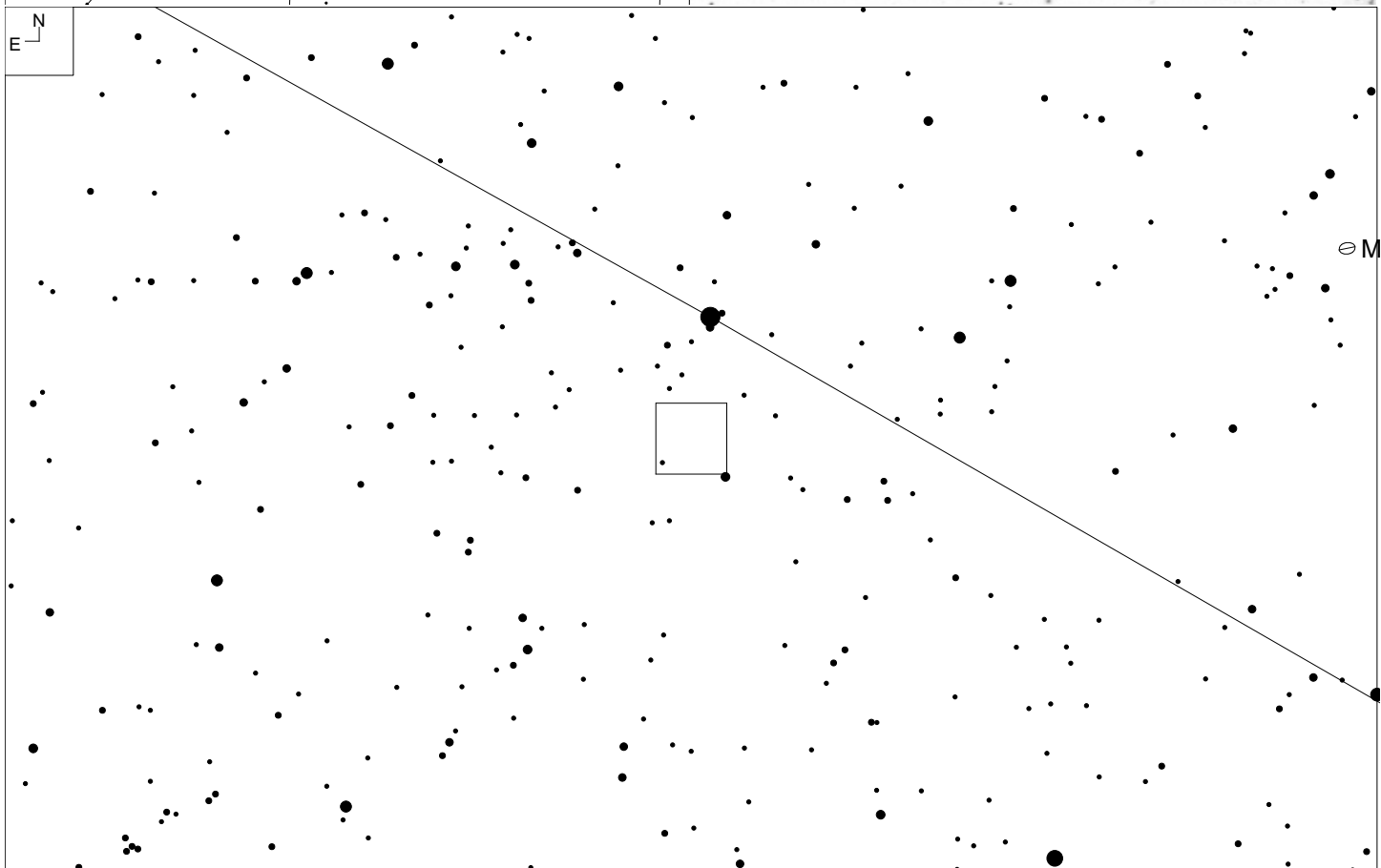
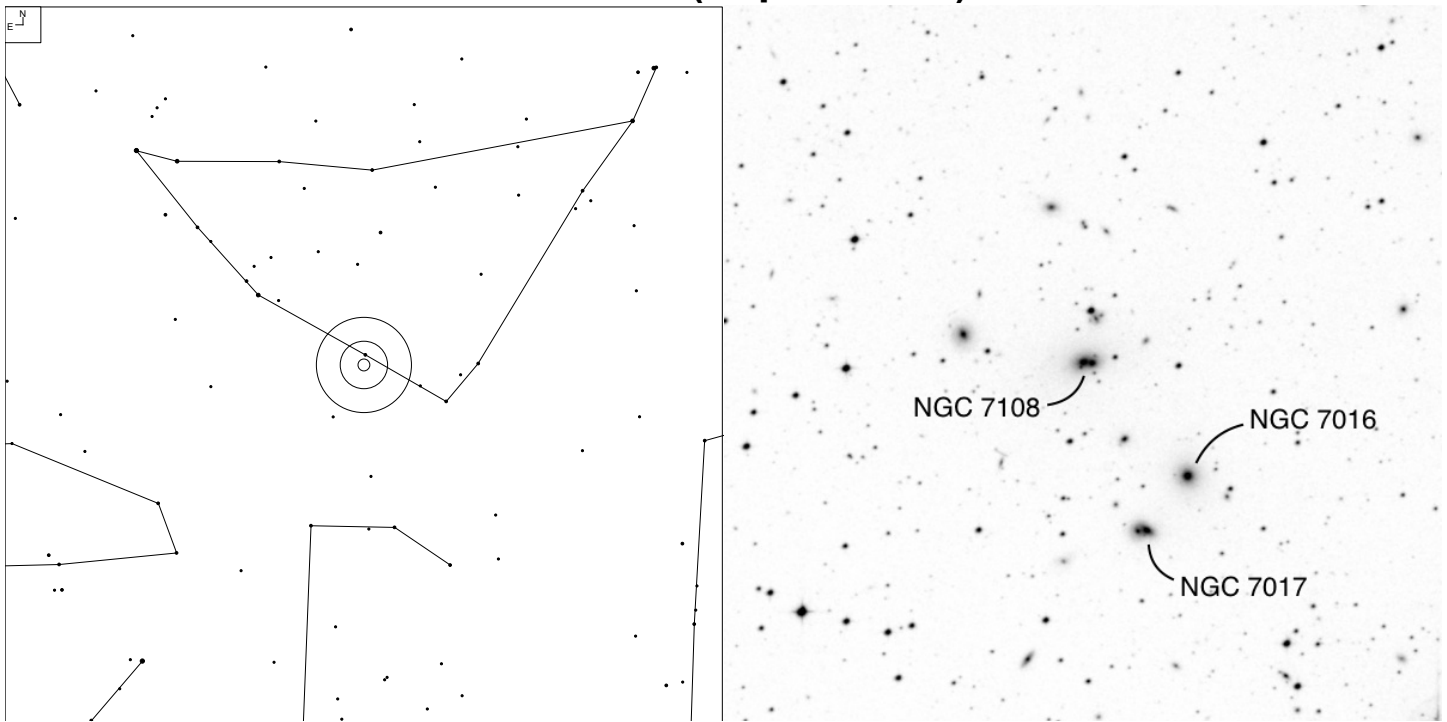
Object (KTG 11)	RA	Dec	Mag	Size
UGC 3536A	07 03 22.3	+86 33 28	14.6p	0.9p
UGC 3528A			15.5p	0.8 x 0.6'
CGCG 370-4B			15.3	0.8 x 0.3'

CGCG 344-4 (Cepheus)



Object (KTG 81)	RA	Dec	Mag	Size
CGCG 344-4	23 40 37.8	+78 15 12	15.5	0.6 x 0.5'
CGCG 344-5			15.6	0.1 x 0.1'
CGCG 344-6			15.6	0.3 x 0.2'

NGC 7018 (Capricornus)

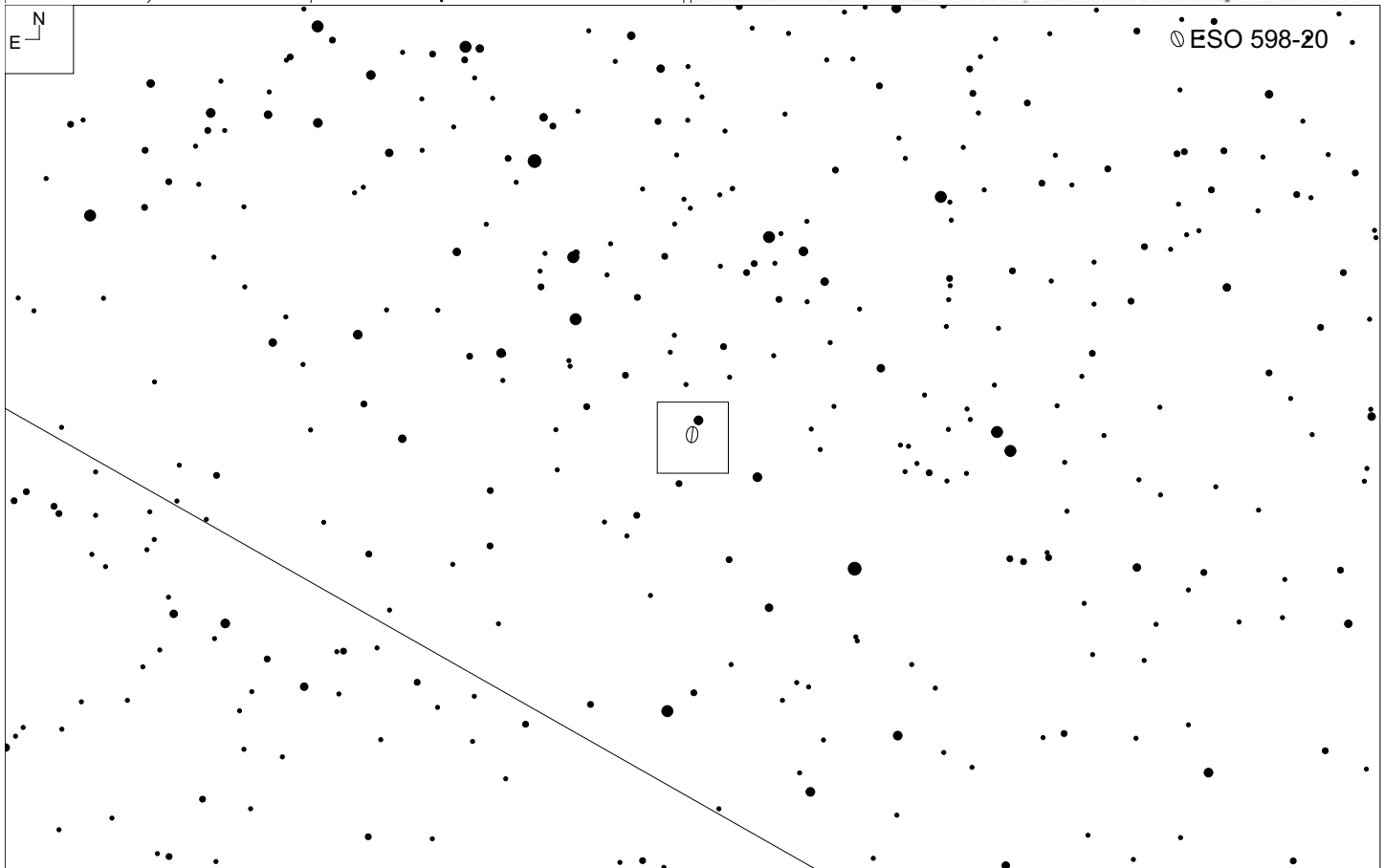
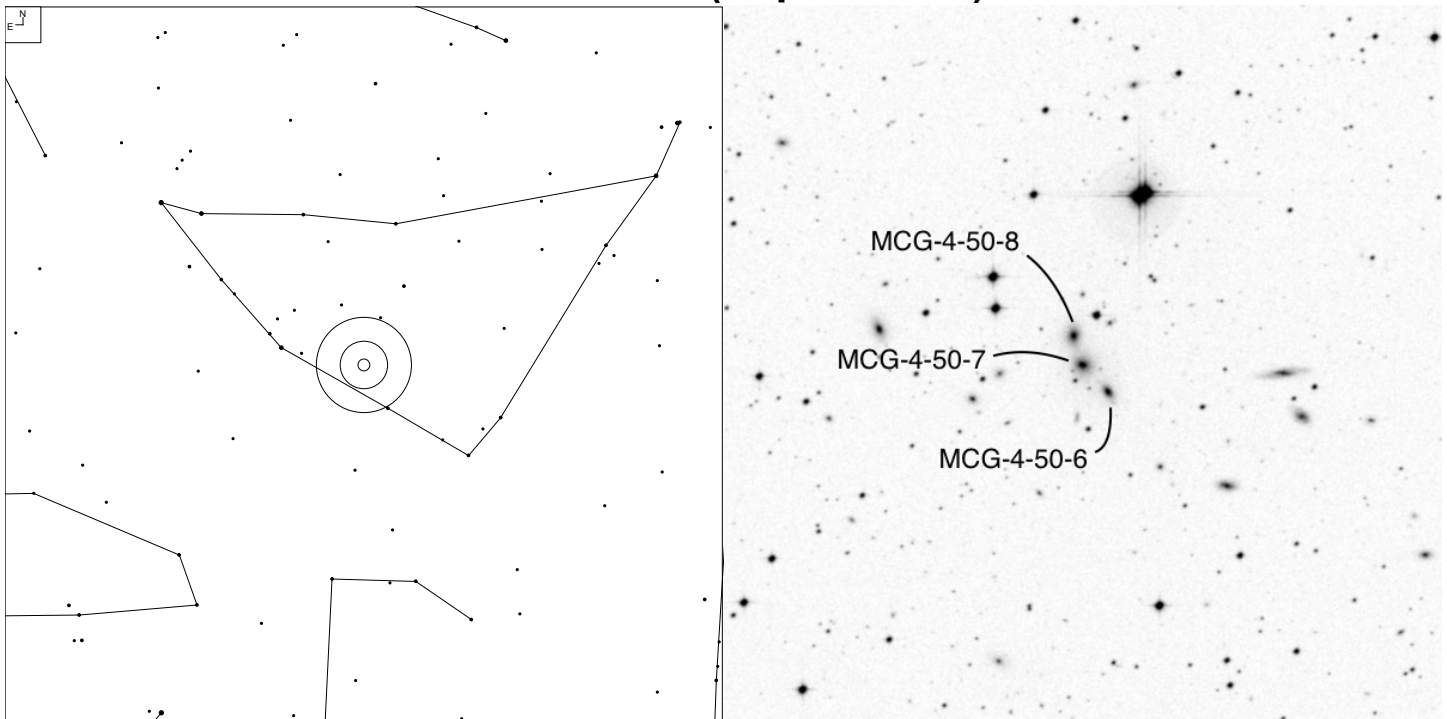


center of Abell GC 3744

Object	RA	Dec	Mag	Size
NGC 7018	21 07 25.4	-25 25 43	14.5	1.4 x 0.9'
NGC 7016			14.7	0.9 x 0.9'
NGC 7017			15.4	1.2 x 0.7'

Miles Paul and Astronomical League trio

MCG-4-50-6 (Capricornus)



Object	RA	Dec	Mag	Size
MCG-4-50-6	21 11 36.9	-23 10 51	15.8	0.6 x 0.4'
MCG-4-50-7			15.0b	0.4 x 0.4'
MCG-4-50-8			14.89*	0.5 x 0.4'

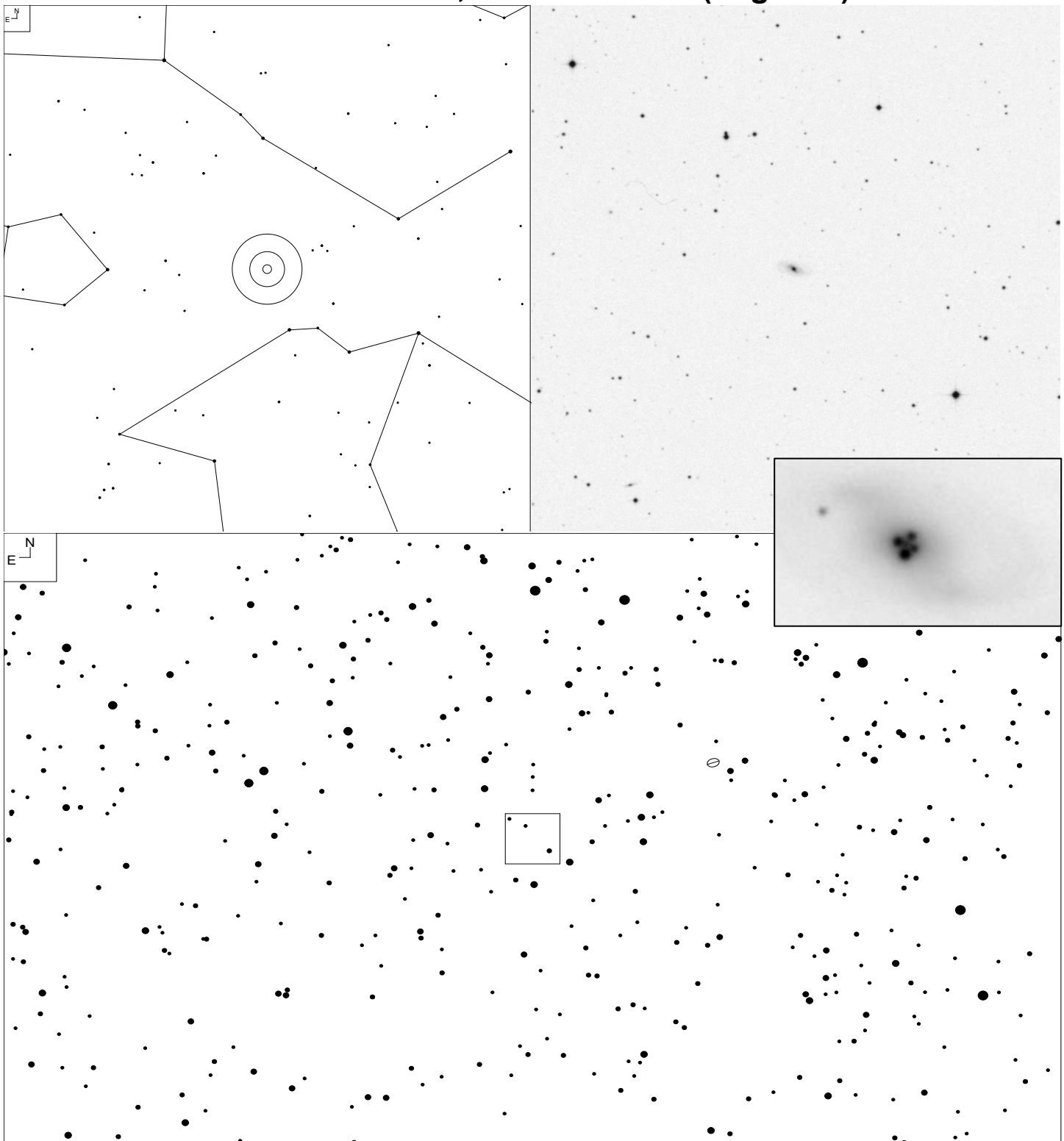
Miles Paul trio

Gravitationally Lensed Quasars List

Pg	Lensed Quasar	RA	Dec	Con	Mag
268	Einstein's Cross	22 40 30.2	+03 21 30	Peg	17.36, 17.39, 18.43, 18.72
269	Andromeda's Parachute	01 47 09	+46 30 37	And	
270	Double Quasar	10 01 21.1	+55 53 52	Uma	17.3, 17.4
271	Leo Double Quasar	11 23 20.8	+01 34 46	Leo	15.7v, 20.1v
272	Cloverleaf Quasar	14 15 46.3	+11 29 43	Boo	17v (all 4)
273	Twin Quasar	12 18 41.1	+50 15 34	CVn	17.2v, 19.0v
274	Triple Quasar	11 18 17.1	+07 46 01	Leo	15.8
275	HE 1104-1805	11 06 33.6	-18 21 25	Crt	16.2
276	OM-076	11 47 51.6	-07 24 41	Crt	18.7, 21.5

Gravitationally Lensed Quasar Atlas

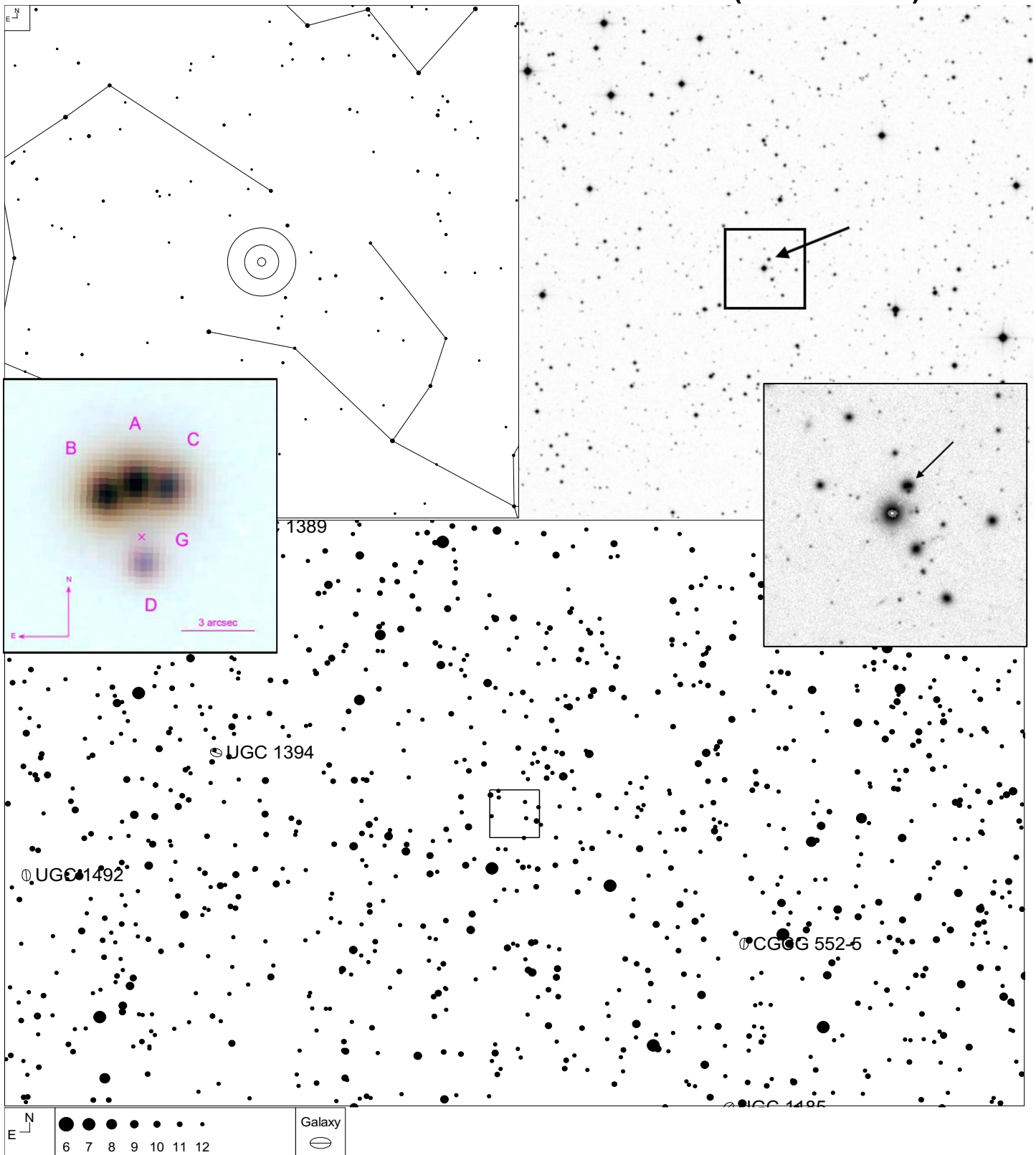
Einstein's Cross, CGCG 378-15 (Pegasus)



Object	RA	Dec	Mag	Size
CGCG 378-15	22 40 30.2	+03 21 30	15.1p	1.1 x 0.5'
QSO 2237+0305			17.36, 17.39, 18.43, 18.72	Average of 1" separation between points and core

<http://www.astronomy-mall.com/Adventures.In.Deep.Space/crossch.htm> - Barbara Wilson and Alan Goldstein
<http://www.astronomy-mall.com/Adventures.In.Deep.Space/crossobsrpt.htm> - Jay Reynolds Freeman

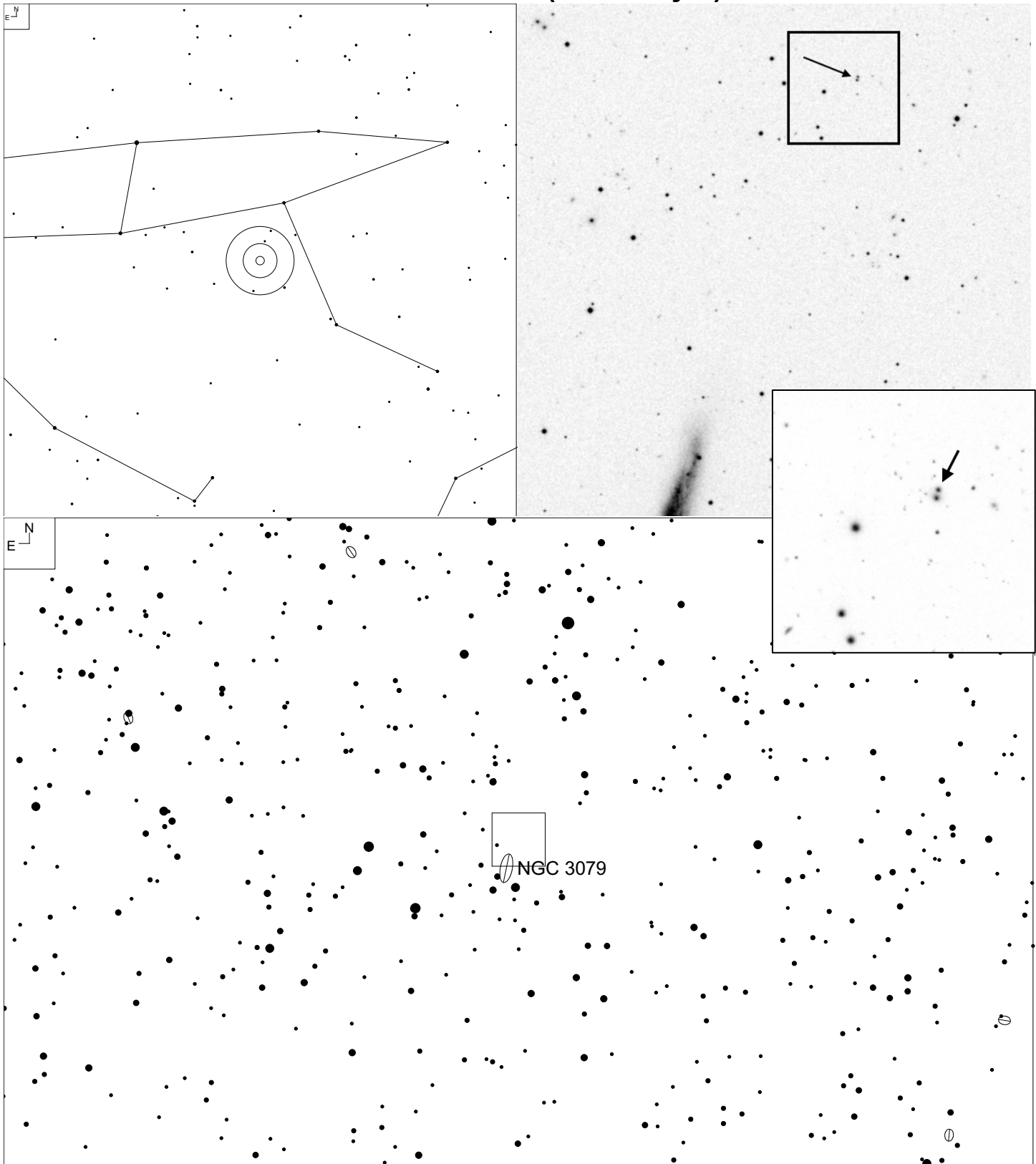
J014709+463037 Andromeda's Parachute (Andromeda)



Object	RA	Dec	Mag	Separation
J014709+463037	01 47 09	+46 30 37	15.4 – 17.7	1.3 – 3.4"

Source of inset image: Discovery of the first quadruple gravitationally lensed quasar candidate with Pan-STARRS
 See <https://arxiv.org/pdf/1705.08359.pdf> and <https://arxiv.org/pdf/1707.05873.pdf>

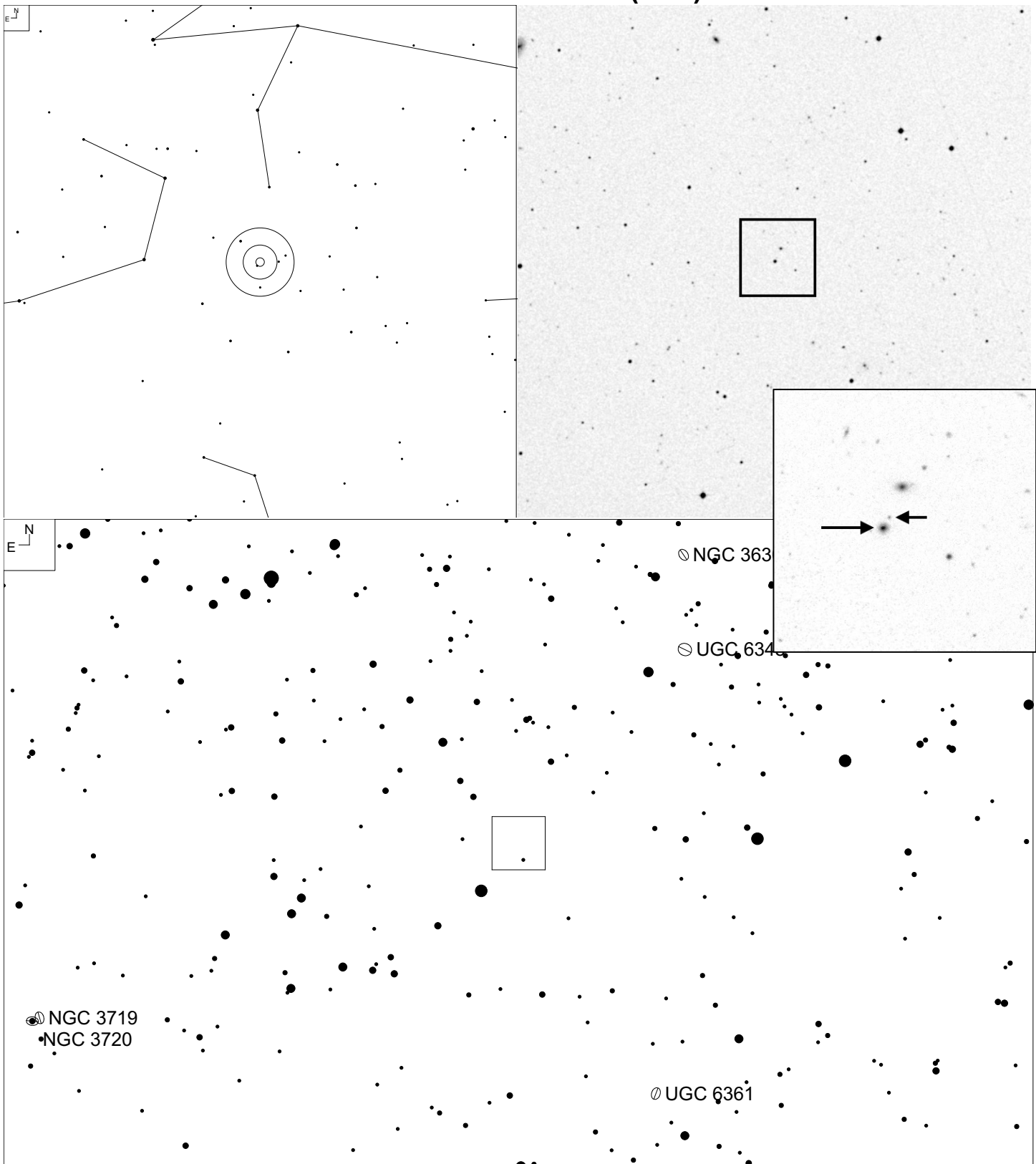
Double Quasar (Ursa Major)



Object	RA	Dec	Mag	Separation
Q 0957+561A/B	10 01 21.1	+55 53 52	17.3, 17.4	6.2" apart

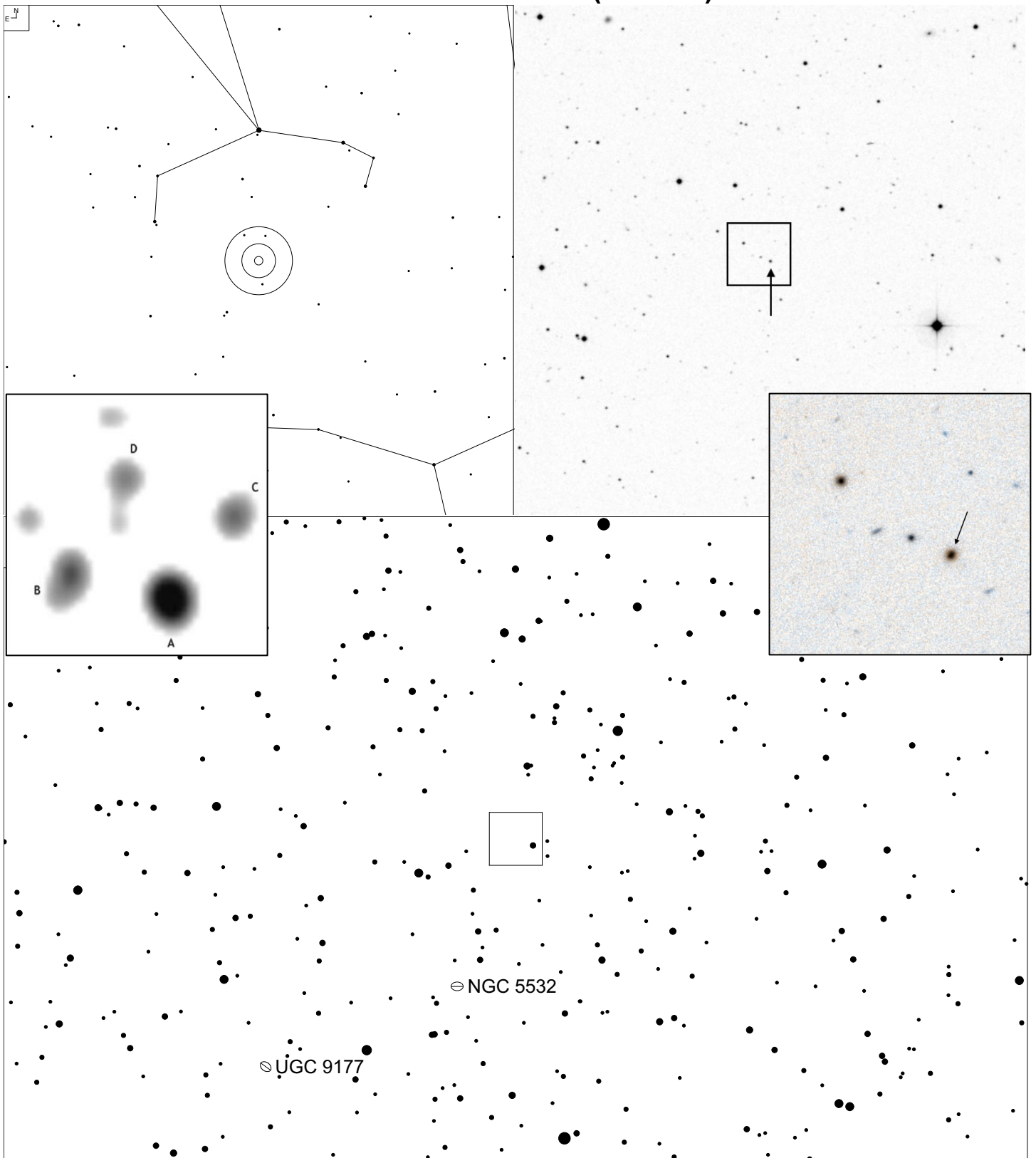
See <http://www.astronomy-mall.com/Adventures.In.Deep.Space/dblqso.htm> by Jay McNeil

Leo Double Quasar (Leo)



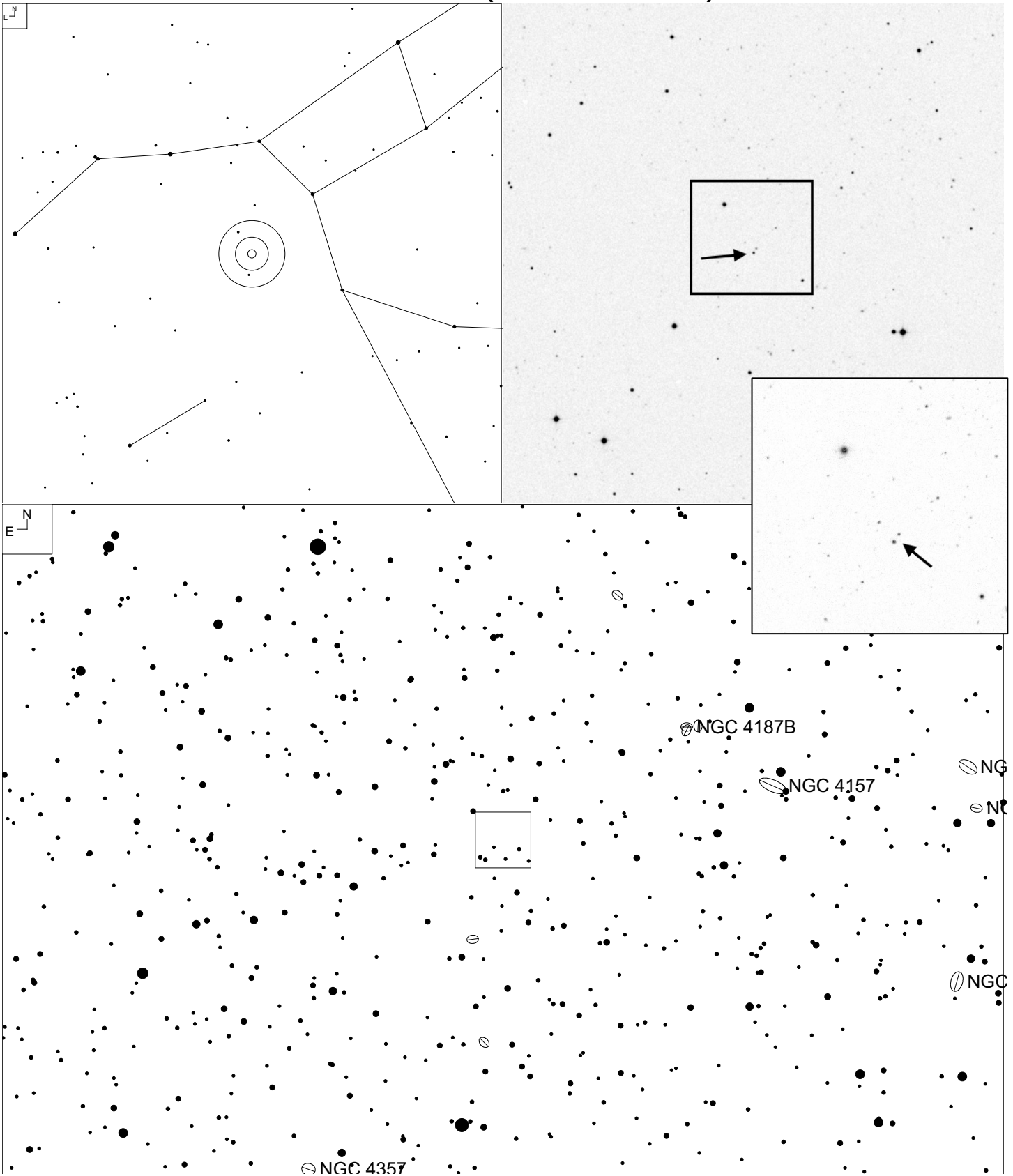
Object	RA	Dec	Mag	Separation
QSO 1120+019A/B	11 23 20.8	+01 37 46	15.7, 20.1v	

Cloverleaf Quasar (Bootes)



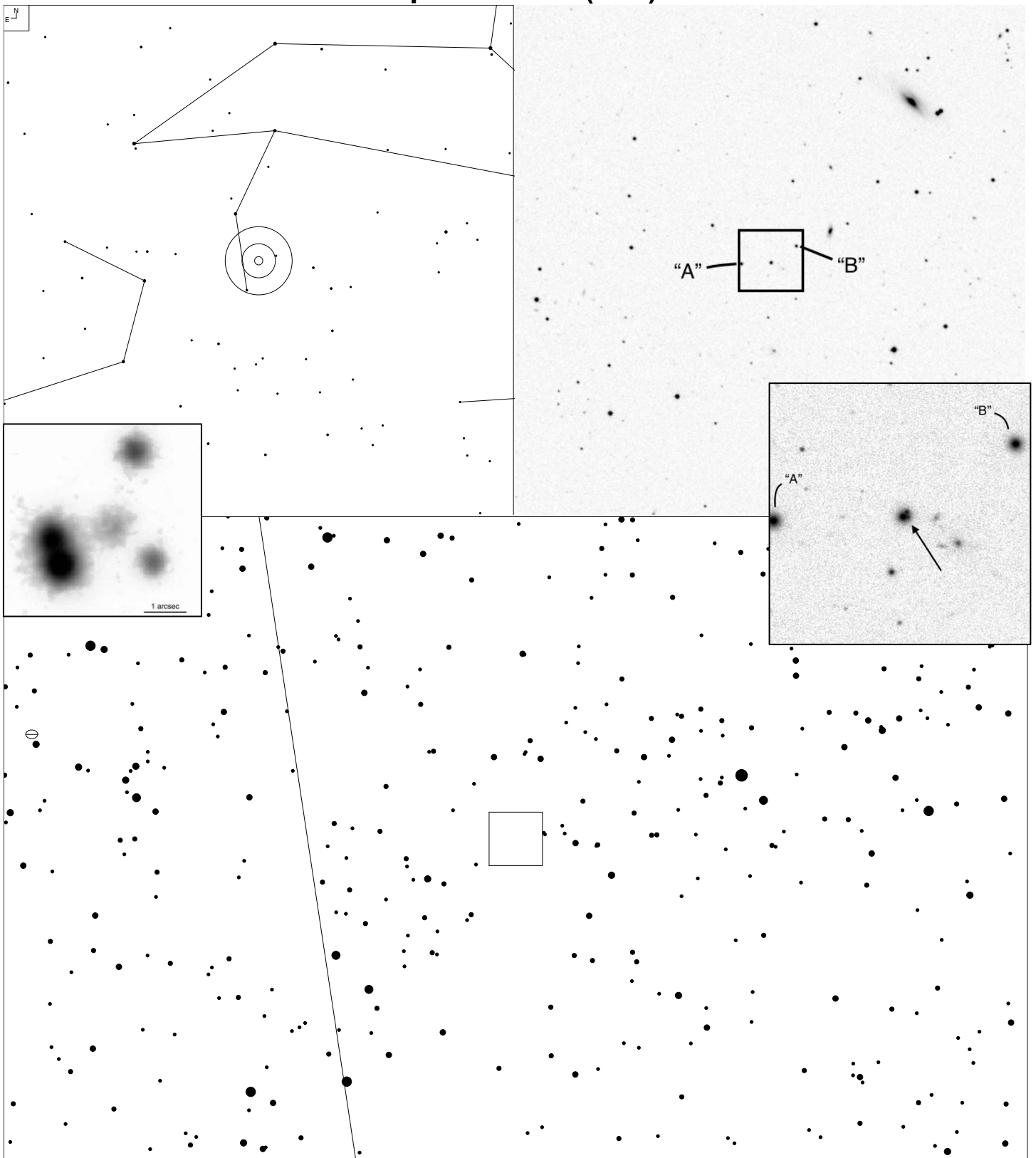
Object	RA	Dec	Mag	Separation
H 1413+117A/B/C/D	14 15 46.3	+11 29 43	17v (all 4)	$\leq 1.36''$

Twin Quasar (Canes Venatici)



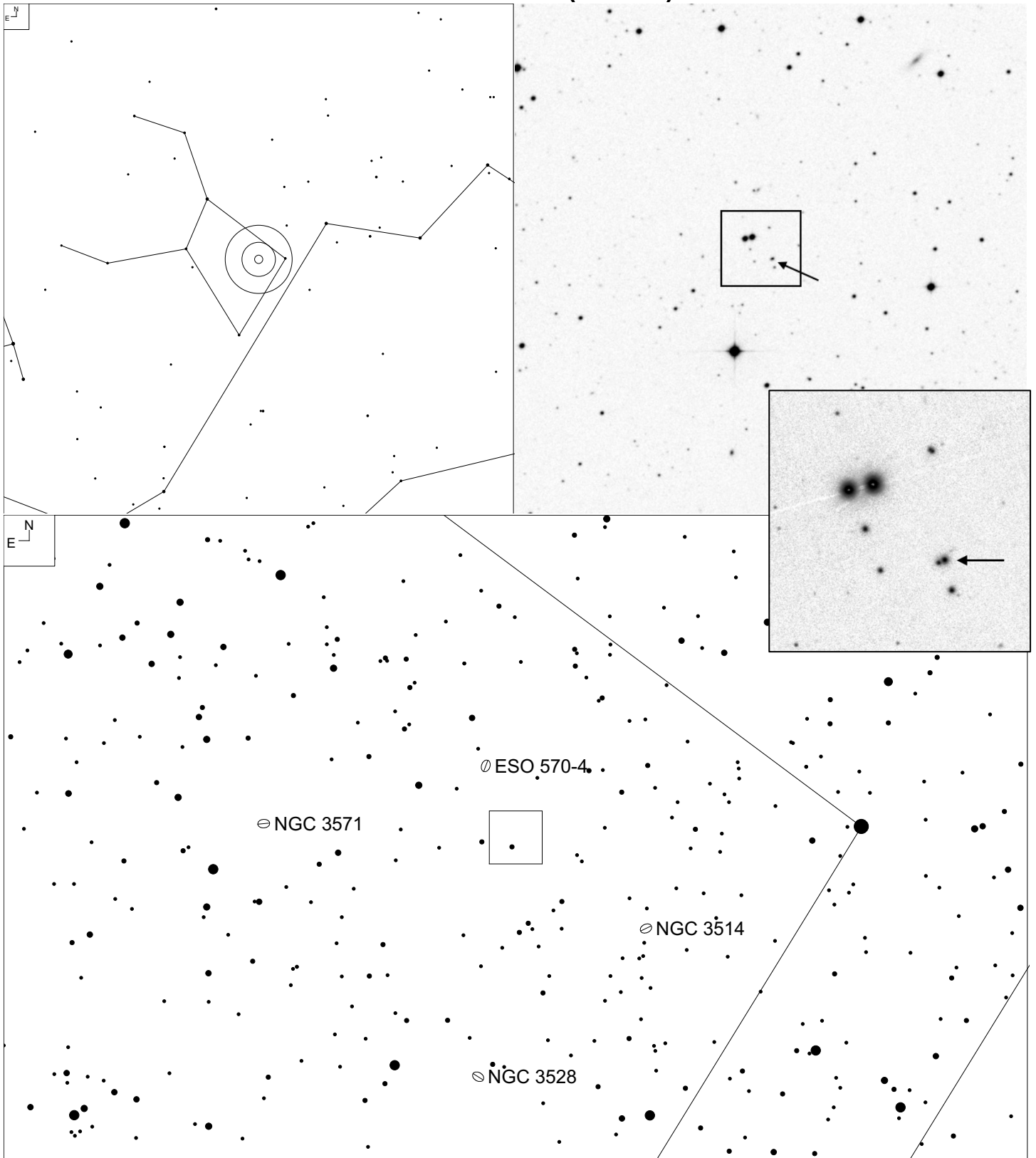
Object	RA	Dec	Mag	Separation
HE 1216+5032A/B	12 18 41.1	+50 15 34	17.2v, 19.0v	9.1"

Triple Quasar (Leo)



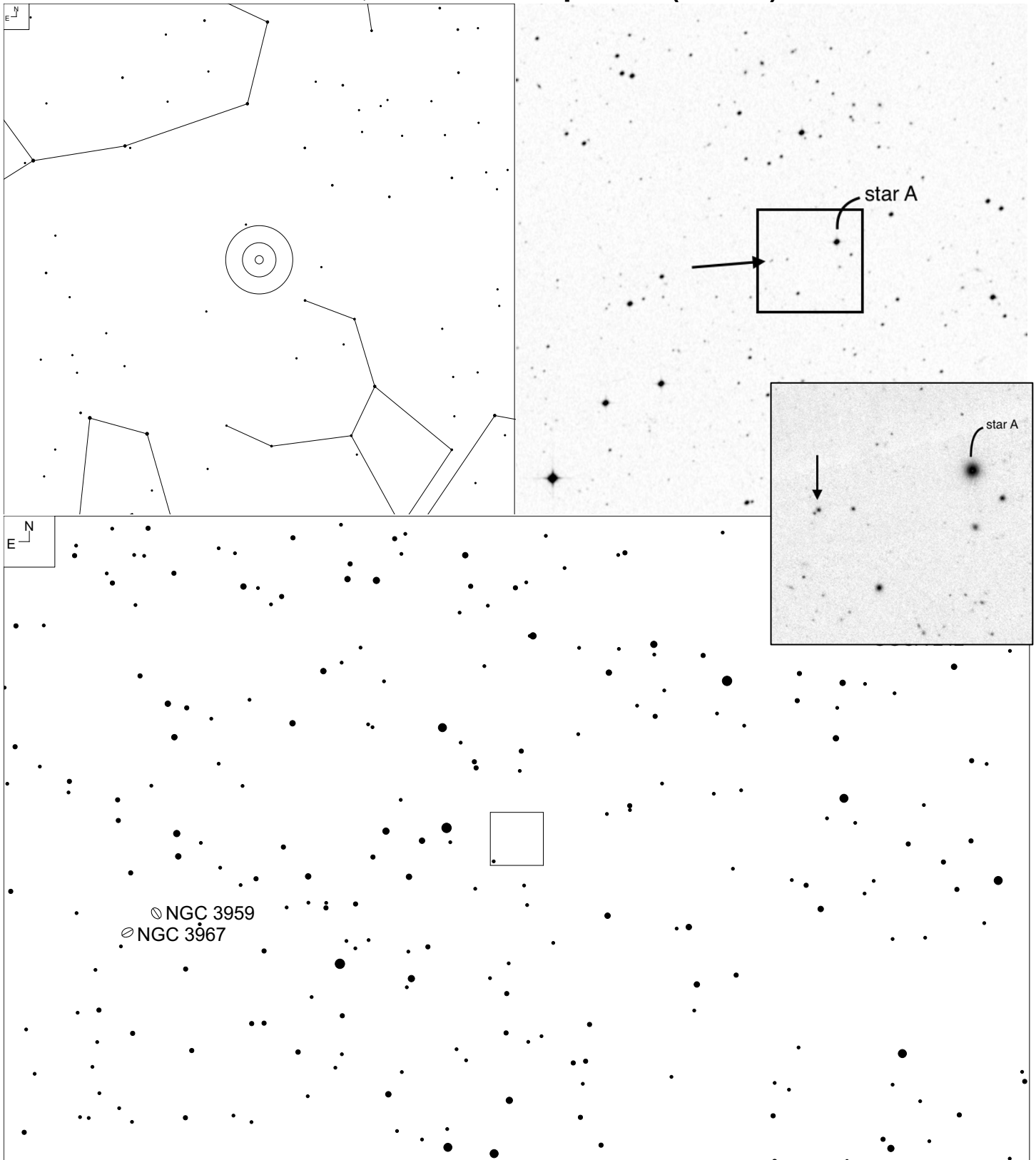
Object	RA	Dec	Mag	Separation
PG 1115+080	11 18 17.1	+07 46 01	15.8	2.1, 2.7"

HE 1104-1805 (Crater)



Object	RA	Dec	Mag	Separation
HE 1104-1805	11 06 33.6	-18 21 25	16.2	3.0"

OM-076, true double quasar (Crater)



○ NGC 3959
 ○ NGC 3967

Object	RA	Dec	Mag	Separation
OM-076 True double quasar	11 47 51.6	-07 24 41	18.7, 21.5	4.2"

KTG Catalogue

Pg	KTG	Galaxies	RA	Dec	Mag	Con
84	1	M-31 M-32 M-110	00 41 56.4	+41 16 24	4.4 9.0 8.9	And
87	2	NGC 317A NGC 317B CGCG 536-14	00 57 40.7	+43 45 04	14.3 13.9 15.1	And
37	3	NGC 392 NGC 394 NGC 397	01 08 23.4	+33 07 59	13.7 15.0 15.5	Psc
88	4	MCG+8-3-11 UGC 813 UGC 816	01 16 04.5	+46 43 50	15.1 14.8 14.2	And
39	5	NGC 467 NGC 470 NGC 474 (KDG 10)	01 19 38.4	+03 21 28	12.9 12.5 12.4	Psc
90	6	CGCG 521-9 CGCG 521-12 CGCG 521-14	01 22 50.2	+39 10 00	15.2 14.7 15.3	And
41	7	UGC 937 CGCG 502-69 MCG+5-4-50	01 23 36.4	+32 37 54	15.0 15.6 15.8	Psc
92	8	NGC 672 NGC 684 IC 1727	01 47 54.3	+27 25 59	11.5 13.3 12.1	Tri
101	9	NGC 1024 NGC 1028 NGC 1029 (Arp 333)	02 39 11.7	+10 50 46	13.1 15.3 14.1	Ari
98	10	IC 1900 IC 1901 IC 1902	03 16 03.8	+37 08 41	15.1 15.7 15.7	Per
260	11	UGC 3536A UGC 3528A CGCG 370-4B	07 05 21.0	+86 36 28	14.6 15.5 15.3	Cep
110	12	UGC 3532 UGC 3535 CGCG 204-13	06 46 13.9	+43 49 08	15.0 14.5 15.9	Aur
122	13	MCG+7-15-6 UGC 3673 UGC 3679	07 07 13.0	+44 49 00	14.8 15.4 15.2	Lyn
123	14	MCG+8-13-81 MCG+8-13-84 UGC 3706	07 09 39.3	+47 54 53	15.3 15.3 14.7	Lyn

Pg	KTG	Galaxies	RA	Dec	Mag	Con
113	15	CGCG 146-33 CGCG 146-34 CGCG 146-36	07 11 21.7	+31 10 00	15.0 15.7 15.4	Gem
114	16	UGC 3776 UGC 3780 UGC 3779	07 16 38.8	+33 59 17	14.3 14.9 15.4	Gem
117	17	CGCG 147-52 CGCG 147--53 CGCG 147--54	07 40 08.8	+32 13 34	15.5 15.6 15.3	Gem
118	18	UGC 3995A UGC 3995B CGCG 147-63	07 44 11.5	+29 14 26	13.3 14.9 15.5	Gem
125	19	UGC 4003 UGC 4012 UGC 4020	07 47 13.5	+58 59 26	14.6 15.3 14.2	Lyn
121	20	IC 497 UGC 4257 MCG+4-20-3	08 10 06.1	+24 55 19	15.4 15.2 15.4	Cnc
130	21	UGC 4349 UGC 4352 MCG+0-22-3	08 20 35.0	-01 22 32	15.0 15.0 15.0	Hyd
128	22	NGC 2798 NGC 2799 UGC 4904	09 17 26.5	+41 57 18	13.0 14.3 14.9	Lyn
138	23	NGC 2820 NGC 2814 IC 2458	09 21 47.1	+64 15 29	12.8 15.0 13.7	UMa
132	24	NGC 2861 CGCG 6-40 CGCG 6-41	09 23 50.7	+02 07 28	13.5 15.2 15.6	Hyd
164	25	NGC 2964 NGC 2968 NGC 2970	09 42 53.9	+31 50 50	12.0 12.8 14.4	Leo
159	26	NGC 3003 NGC 3021 NGC 3067	09 53 28.8	+32 57 42	12.3 12.9 12.8	LMi
165	27	NGC 3016 NGC 3020 NGC 3024	09 50 08.9	+12 45 16	13.8 12.6 13.8	Leo
141	28	M-81 M-82 NGC 3077	09 59 26.9	+69 12 24	7.9 9.3 9.9	UMa
178	29	MCG+0-27-17 MCG+0-27-19 UGC 5667	10 27 24.9	+01 14 29	15.7 15.0 14.9	Sex

Pg	KTG	Galaxies	RA	Dec	Mag	Con
167	30	NGC 3299 NGC 3306 CGCG 65-69	10 36 47.0	+12 42 42	13.3 14.0 14.9	Leo
168	31	UGC 5822 CGCG 124-53 CGCG 124-54	10 41 49.1	+21 13 20	14.7 15.6 14.9	Leo
169	32	UGC 5892 CGCG 38-11 CGCG 38-12	10 47 17.6	+07 14 58	14.3 15.7 15.6	Leo
170	33	M-105 NGC 3384 NGC 3389	10 47 49.6	+12 34 55	10.2 10.9 12.4	Leo
231	34	NGC 3465 NGC 3523 UGC 6090	11 01 18.8	+75 09 30	14.4 13.6 14.4	Dra
172	35	NGC 3534 UGC 6190 CGCG 155-76	11 09 01.8	+26 36 42	14.2 15.2 15.1	Leo
174	36	UGC 6361A/B/C CGCG 11-68 CGCG 11-75	11 20 49.0	+00 31 51	13.9 14.9 15.2	Leo
175	37	UGC 6462 CGCG 39-188 CGCG 39-190	11 27 59.0	+07 59 50	15.0 16.0 15.6	Leo
183	38	MCG-1-30-32 MCG-1-30-33 MCG-1-30-34 (Wild's Triplet)	11 46 44.5	-03 50 50	13.7 14.2 14.3	Vir
148	39	NGC 3995 NGC 3994 NGC 3991 (Arp 313)	11 57 44.4	+32 17 38	12.4 13.3 13.5	UMa
149	40	IC 749 IC 750 IC 751	11 58 43.2	+42 39 08	12.9 12.9 15.1	UMa
150	41	UGC 7064 CGCG 158-10 CGCG158-11	12 04 44.6	+31 10 34	14.2 15.8 15.7	UMa
179	42	NGC 4169 NGC 4170 NGC 4175 (not 4174?)	12 12 24.9	+29 11 21	13.2 13.6 14.2	Com
152	43	MCG+7-25-60 MCG+7-25-59 MCG+7-25-61	12 21 02.1	+39 53 59	15.4 15.2 15.1	CVn

Pg	KTG	Galaxies	RA	Dec	Mag	Con
232	44	CGCG 315-48 CGCG 315-49 CGCG 315-50	12 35 25.7	+63 58 33	15.7 15.1 15.3	Dra
181	45	NGC 4615 (Arp 34) NGC 4614 NGC 4613	12 41 37.4	+26 04 22	13.8 14.3 15.6	Com
194	46	IC 871 IC 873 IC 876	13 18 16.6	+04 26 42	14.2 15.3 14.9	Vir
197	47	IC 904 UGC 8631 CGCG 17-46	13 38 34.0	+00 31 40	14.6 14.8 15.9	Vir
198	48	UGC 8686 CGCG 45-81 CGCG 45-84	13 43 52.5	+03 53 50	14.9 15.6 15.1	Vir
199	49	CGCG 17-67 CGCG 17-68 uncharted	13 46 22.4	-03 24 39	15.4 14.8 15.3	Vir
157	50	NGC 5350 NGC 5353 NGC 5354	13 53 24.1	+40 19 24	11.3 10.9 11.3	CVn
212	51	IC 962 MCG+2-36-2 MCG+2-36-4	13 57 13.3	+12 01 18	14.2 15.0 15.2	Boo
200	52	UGC 8939 CGCG 18-29 CGCG 18-31	14 02 08.9	-01 22 38	14.1 15.3 15.7	Vir
213	53	UGC 8987 CGCG 103-60 CGCG 103-65	14 04 34.5	+16 18 17	14.7 14.8 15.6	Boo
201	54	NGC 5566 NGC 5560 NGC 5569	14 20 20.0	+03 56 01	11.5 12.4 13.9	Vir
202	55	NGC 5576 NGC 5574 NGC 5577	14 21 03.8	+03 16 16	11.0 12.4 13.1	Vir
203	56	CGCG 47-27 CGCG 47-28 CGCG 47-29	14 22 55.1	+06 09 40	15.5 15.6 15.6	Vir
205	57	NGC 5619 IC 4424 UGC 9258	14 27 26.7	+04 48 05	13.4 14.7 15.0	Vir
219	58	NGC 5736 UGC 9490 CGCG 76-9	14 43 36.0	+11 10 46	14.7 15.5 15.2	Boo

Pg	KTG	Galaxies	RA	Dec	Mag	Con
229	59	CGCG 337-33 CGCG 337-34 CGCG 401-1	15 15 49.1	+69 18 17	15.0 15.2 15.7	Umi
243	60	NGC 5911 CGCG 49-134 CGCG 49-135	15 20 23.9	+03 28 56	14.7 15.7 15.4	Ser
244	61	UGC 9829 CGCG 21-81 CGCG 21-83	15 22 58.7	-01 21 50	14.2 16.1 15.7	Ser
245	62	NGC 5951 NGC 5953 NGC 5954	15 34 16.9	+15 07 59	13.4 12.9 12.9	Ser
233	63	NGC 5965 NGC 5963 NGC 5971	15 34 32.5	+56 34 25	12.6 13.1 14.7	Dra
234	64	NGC 5982 NGC 5985 NGC 5981	15 38 39.8	+59 21 21	12.0 11.9 13.9	Dra
246	65	UGC 9990 CGCG 50-83 CGCG 50-87	15 43 46.7	+04 49 14	15.0 15.0 15.2	Ser
224	66	CGCG 225-14 CGCG 225-16 CGCG 225-17	16 57 33.7	+40 43 16	15.2 15.0 15.0	Her
227	67	NGC 6484 MCG+4-42-10 MCG+4-42-11	17 52 00.2	+24 30 25	13.1 14.7 15.2	Her
248	68	UGC 11368 UGC 11370 UGC 11371	18 51 43.0	+26 31 07	14.3 14.6 14.3	Lyr
249	69	NGC 6745	19 01 41.7	+40 45 11	13.3 16.2 15.9	Lyr
251	70	UGC 11607 CGCG 373-45 CGCG 373-46	20 39 33.5	+02 03 08	14.9 15.2 15.2	Aql
254	71	NGC 6956 UGC 11623 UGC 11620	20 43 53.7	+12 30 42	13.1 14.9 14.6	Del
255	72	UGC 11659 CGCG 400-17 CGCG 400-18	21 00 10.1	+09 34 15	14.8 16.6 16.2	Equ
256	73	IC 1392 UGC 11775 UGC 11781	21 36 00.0	+35 28 53	12.5 14.1 13.1	Cyg

Pg	KTG	Galaxies	RA	Dec	Mag	Con
62	74	UGC 11851 CGCG 403-2 MAC 2156+0554	21 55 52.2	+05 51 25	14.7 15.4 15.5	Peg
66	75	CGCG 430-1 CGCG 430-2 CGCG 430-3	22 44 10.2	+10 01 46	15.2 15.3 15.3	Peg
67	76	UGC 12191 UGC 12193 CGCG 474-32	22 48 47.2	+27 35 30	14.7 13.9 15.8	Peg
70	77	CGCG 406-11 CGCG 406-13 MAC 2310+0909	23 10 45.0	+09 09 59	15.6 14.8 15.5	Peg
72	79	UGC 12543 UGC 12546 UGC 12545	23 21 33.5	+27 07 08	15.4 15.2 15.1	Peg
80	80	NGC 7640 UGC 12588 UGC 12632	23 26 02.5	+41 05 45	11.9 13.7 12.8	And
261	81	CGCG 344-4 CGCG 344-5 CGCG 344-6	23 41 22.5	+78 13 00	15.5 15.6 15.6	Cep
76	82	NGC 7769 NGC 7770 NGC 7771	23 51 03.9	+20 09 00	12.8 13.1 14.4	Peg
77	83	UGC 12897 UGC 12899 CGCG 499-33 (Hick 99)	00 00 42.5	+28 23 36	14.8 14.7 15.7	Peg
78	84	UGC 14 UGC 12915 UGC 12914	00 02 36.7	+23 20 53	13.8 13.9 13.1	Peg

Additional Resources

Books

Burnham, Robert. *Burnham's Celestial Handbook, Vol. 1 to 3*. New York: Dover Books, 1978.

Coe, Steven R. *Deep Sky Observing. The Astronomical Tourist*. New York: Springer Publishing Company, 2000.

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

Harrington, Philip S. *Cosmic Challenge: The Ultimate Observing List for Amateurs*. Cambridge: Cambridge University Press, 2010.

Houston, Walter Scott. *Deep-Sky Wonders*. Cambridge, MA: Sky Publishing Corp, 1999.

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

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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.

Amateur Articles

Paul, Miles. "Atlas of Galaxy Trios". *The Deep Sky Observer*, Issue 122 (2000)

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 most aspects of the hobby.

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

www.webbdeepsky.com – UK's premier deep sky society with a wealth of resources

<http://ned.ipac.caltech.edu> - NASA-IPAC Extragalactic Database – NED

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

<https://skyserver.sdss.org/dr8/en/tools/chart/chart.asp> - SkyServer DR8 Tools for Visual Exploration (SDSS)

Sources of charts and images

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

archive.stsci.edu/dss/acknowledging.html - DSS images (Digital Sky Survey)

Revision History

Date	Revision
April 2010	<ul style="list-style-type: none"> • Enhanced the gravitational lens section • Added a true double quasar, OM-076
November 2011	<ul style="list-style-type: none"> • Reviewed Miles Paul's original list and added 23 more trios. Noted which trio is from his original list. • Added from the KTG list. <ul style="list-style-type: none"> ○ NGC 467, 470, 474 ○ UGC 937, CGCG 502-69, MCG+5-4-50 ○ UGC 11851, CGCG 403-2, MAC 2156+0554 ○ CGCG 430-1, -2, -3 ○ UGC 12191, 12193, CGCG 474-32 ○ CGCG 406-11, -13, MAC 2310+0909 ○ NGC 317A/B, CGCG 536-14 ○ CGCG 521-9, 521-12, 521-14 ○ IC 1900, 1901, 1902 ○ UGC 3532, 3535, CGCG 204-13 ○ CGCG 146-33, -34, -36 ○ CGCG 147-52, -53, -54 ○ UGC 4003, 4012, 4020 ○ NGC 2798, 2799, UGC 4904 ○ NGC 2861, CGCG 6-40, 6-41 ○ IC 749, 750, 751 ○ UGC 7064, CGCG 158-10, -11 ○ NGC 3299, 3306, CGCG 65-69 ○ UGC 5822, CGCG 124-53, -54 ○ UGC 5892, CGCG 38-11, -12 ○ NGC 3534, UGC 6190, CGCG 155-76 ○ UGC 6462, CGCG 39-188, -190 ○ IC 871, 873, 876 ○ IC 904, UGC 8631, CGCG 17-46 ○ UGC 8686, CGCG 45-81, -84 ○ CGCG 17-67, -68, uncharted ○ UGC 8939, CGCG 18-29, -31 ○ CGCG 47-27, -28, -29 ○ NGC 5619, IC 4424, UGC 9258 ○ UGC 8987, CGCG 103-60, -65 ○ NGC 5736, UGC 9490, CGCG 76-9 ○ CGCG 225-14, -16, -17 ○ NGC 6484, MCG+4-42-10, -11 ○ CGCG 337-33, -34, 401-1 ○ CGCG 315-48, -49, -50 ○ NGC 5911, CGCG 49-134, -135 ○ UGC 9829, CGCG 21-81, -83 ○ NGC 5951, 5953, 5954 ○ UGC 9990, CGCG 50-83, -87 ○ UGC 11368, 11370, 11371 ○ UGC 11607, CGCG 373-45, -46 ○ UGC 11659, CGCG 400-17, -18 ○ UGC 3536A, 3528A, CGCG 370-4B ○ CGCG 344-4, -5, -6

Date	Revision
November 2011 (cont.)	<ul style="list-style-type: none"> • Added the following from other sources: <ul style="list-style-type: none"> ○ UGC 12525 triple system ○ CGCG 407-46, MAC 2343+0433 ○ CGCG 382-27, MAC 0006+0306A, +0306B ○ CGCG 459-66, MAC 0130+2035, +2036 ○ MAC 0033-0251, -251A, -250 ○ UGC 2211, MAC 0243+0639, uncharted ○ CGCG 427-35, -36, -37 ○ NGC 7236, NGC 7237, uncharted ○ UGC 12110, CGCG 429-12, MCG +2-57-6 ○ UGC 12297, CGCG 496-29, uncharted ○ MAC 2311+2256 triple system ○ MAC 2341+0904B, +0904A, +0904 ○ CGCG 407-53, MAC 2345+0911, +0912B ○ IC 1583, 1585, MCG+4-3-3 ○ PGC 8731,8734, 8741 (V Zw 037) ○ IC 275 (PGC, 11389, 11388, 11390) ○ UGC 3615, CGCG 176-3, MAC 0658+3545 ○ CGCG 207-7, MAC 0756+4407, +4405A ○ UGC 8281, MCG+8-24-79, MAC 1311+4448 ○ MCG+7-27-49, -50, -51 ○ MCG+9-22-48, -47, -49 ○ CGCG 290-52 triple system ○ MAC 1254+2805A, +2805B, +2804 ○ MAC 1242-1128B, -1128C, -1128D chain ○ CGCG 44-33, -35, -36 ○ CGCG 47-37 ○ CGCG 46-17, CGCG 46-19, MAC 1357+0724 ○ NGC 5619, IC 4424, UGC 9258 ○ MAC 1450+5047, +5407A, uncharted ○ CGCG 140-2, 140-3, MAC 1714+2305 ○ UGC 10987 triple system ○ CGCG 254-13 triple system ○ CGCG 300-88, MAC 1751+6249
August 2012	<ul style="list-style-type: none"> • Enhanced NGC 735 and identified the nearby galaxy as V Zw 146 • Corrected naked eye finder chart for NGC 6120
August 2012	<ul style="list-style-type: none"> • Enhanced magnitude scaling of finder charts.

Date	Revision
March 2013	<ul style="list-style-type: none"> • Added the rest of the KTG Catalog that I didn't add earlier. Mostly bright stuff or already included in my other guides such as Arp and Hickson. Included them for the sake of completeness of the KTG catalog. Added a column in the index indicating which trio is a KTG trio. <ul style="list-style-type: none"> ○ UGC 12897, 12899, CGCG 499-33 (Hick 99) ○ UGC 14, 12915, 12914 ○ NGC 7640, UGC 12588, 12632 ○ M-31, 32, 110 ○ UGC 3995A/B, CGCG 147-63 ○ NGC 3016, 3020, 3024 ○ UGC 6361A/B/C, CGCG 11-68. 11-75 ○ NGC 3003, 3021, 3067 ○ M-81, 82, NGC 3077 ○ NGC 3465, 3523, UGC 6090 ○ NGC 4169, 4170, 4174, 4175 ○ NGC 5350, 5353, 5354 ○ NGC 5965, 5963, 5971 ○ NGC 6745 ○ IC 1392, UGC 11775, 11781 <p>Note: I've made it a little easier for those who have the most previous version of this guide.</p>
March 2013	<ul style="list-style-type: none"> • Very minor enhancements <ul style="list-style-type: none"> ○ Enhanced TOC ○ Moved the index to the beginning ○ Enhanced recommended reading section.
April 2013	<p>Added new objects:</p> <ul style="list-style-type: none"> • II Zw 99 • NGC 273, 274, 275 (KDG 7) • NGC 3607, 3605, 3608 (KDG 90) • NGC 4564, 4567, 4568 (KDG 150) • NGC 6677, 6679, IC 4763 (KDG 200)
April 2013	<p>Minor edits – mainly to the How to Use section. Added cover page</p>
May 2013	<p>Added new object:</p> <ul style="list-style-type: none"> • IRAS 06370+3623 <p>Corrected the catalog name for KTG 59C (page 224) from CGCG 401-1 to CGCG 337-35.</p>
June 2013	<p>Discovered that NGC 5619 trio was listed twice, once in Virgo and again in Bootes. Deleted the latter.</p>
August 2017	<p>Added a newly discovered quad gravitationally lensed quasar, Andromeda's Parachute.</p>
March 2024	<p>Minor edits and formatting. No new objects.</p> <ul style="list-style-type: none"> • Enhanced resources under Additional Resources. • Flipped the list from landscape to portrait format. All objects, including secondary or tertiary galaxies, are listed with full catalogue name, so the PDF is searchable. • Added a separate KTG catalogue (see page 277-282). • Resolved remaining missing magnitude figures for uncharted galaxies.

Date	Revision
May 2024	Corrected a couple errors <ul style="list-style-type: none"> • UGC 367 trio (page 82). <ul style="list-style-type: none"> • UGC 375 not part of the group, while MAC 0037+2543A is. • Corrected the labeling of the UGC and MCG galaxies. • Corrected the DSS image. • NGC 5150/52/53 is a Miles Paul Trio and added asterisk in the catalogue to reflect that.
July 2024	Corrected the following: <ul style="list-style-type: none"> • NGC 3786 trio – NGC 3793 was mislabeled in several star charts. Actual catalog is CGCG 157-7. • NGC 5504 trio – IC 4383 was mislabeled in several star charts. IC 4383 is the brighter of the two companions and the mislabeled member is UGC 9086. • NGC 6609 trio – Was formerly listed as NGC 6608 trio. Corrected the mislabeled NGC 6608 and NGC 6609. It was switched in the previous versions. • NGC 6677 trio – Corrected labeling for all three members based on NED.
December 2025	<ul style="list-style-type: none"> • Enhanced some DSS photos to further reduce clutter focusing on the trio. • Enhanced some labeling and included a few insets showing the details of compact trios. • Updated DSS photos and insets to improve clarity of gravitationally lensed quasar section.
February 2026	<ul style="list-style-type: none"> • Added NGC 1316 (Fornax) • Minor enhancements to the images and added inserts to increase clarity on a few objects. • No material changes.